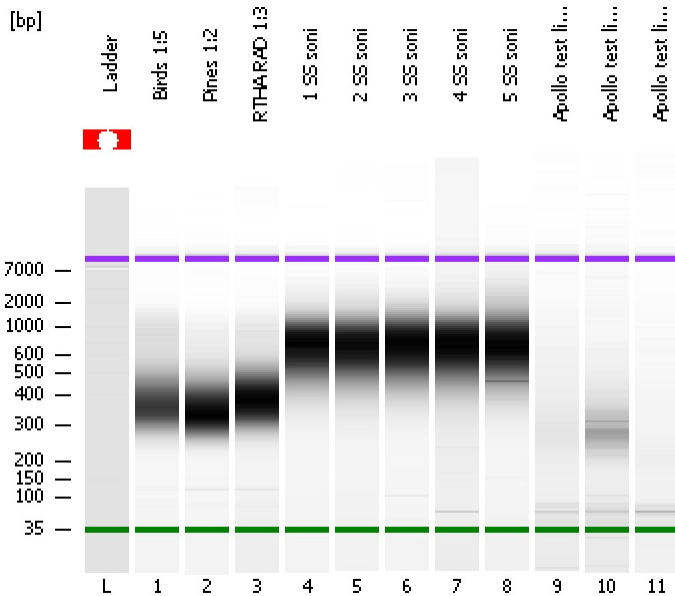


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
Modified: 6/23/2016 10:13:04 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

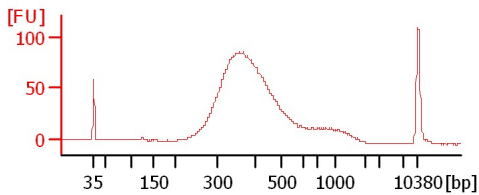
Assay Information:

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

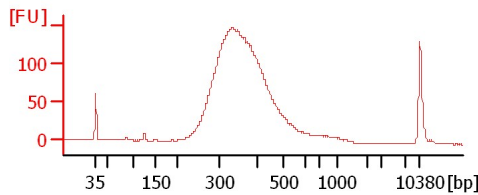
Chip Information:

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

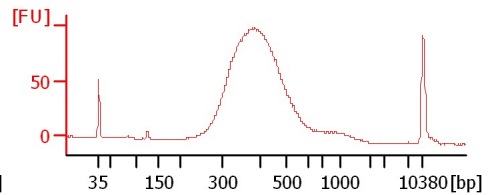
Birds 1:5



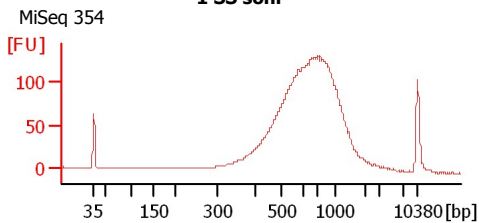
Pines 1:2



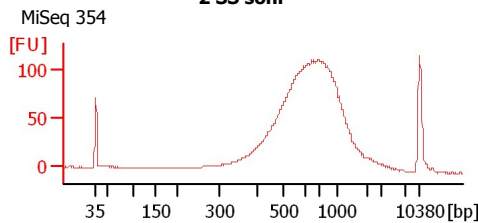
RTHA RAD 1:3



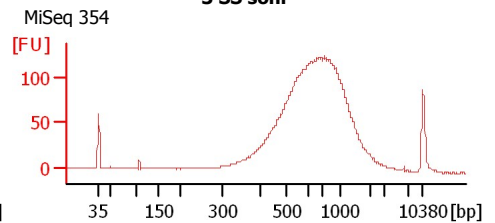
1 SS soni



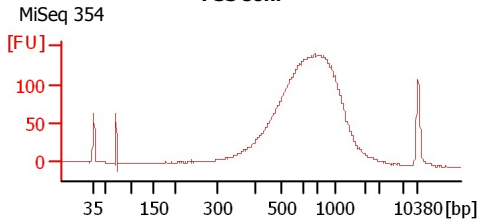
2 SS soni



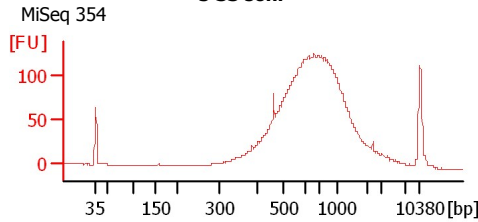
3 SS soni



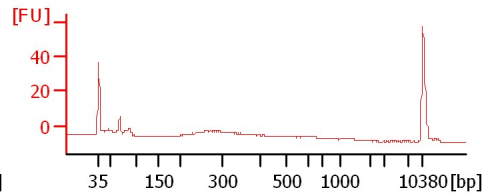
4 SS soni



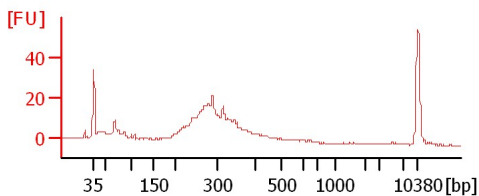
5 SS soni



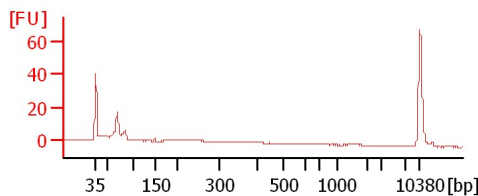
Apollo test lib 1



Apollo test lib 2



Apollo test lib 3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Birds 1:5 | | <input type="checkbox"/> | ✓ | | | |
| Pines 1:2 | | <input type="checkbox"/> | ✓ | | | |
| RTHA RAD 1:3 | | <input type="checkbox"/> | ✓ | | | |
| 1 SS soni | MiSeq 354 | <input type="checkbox"/> | ✓ | | | |
| 2 SS soni | MiSeq 354 | <input type="checkbox"/> | ✓ | | | |
| 3 SS soni | MiSeq 354 | <input type="checkbox"/> | ✓ | | | |
| 4 SS soni | MiSeq 354 | <input type="checkbox"/> | ✓ | | | |
| 5 SS soni | MiSeq 354 | <input type="checkbox"/> | ✓ | | | |
| Apollo test lib 1 | | <input type="checkbox"/> | ✓ | | | |
| Apollo test lib 2 | | <input type="checkbox"/> | ✓ | | | |
| Apollo test lib 3 | | <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\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
Modified: 6/23/2016 10:13:04 AM

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

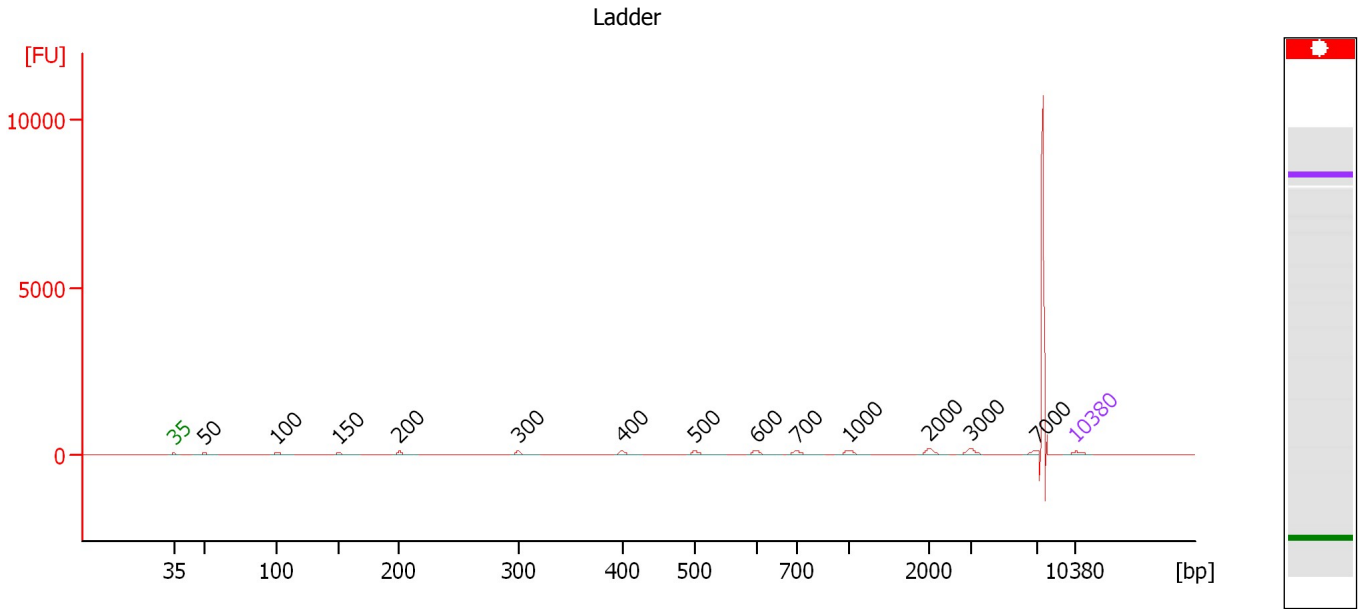
Ladder

| 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\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

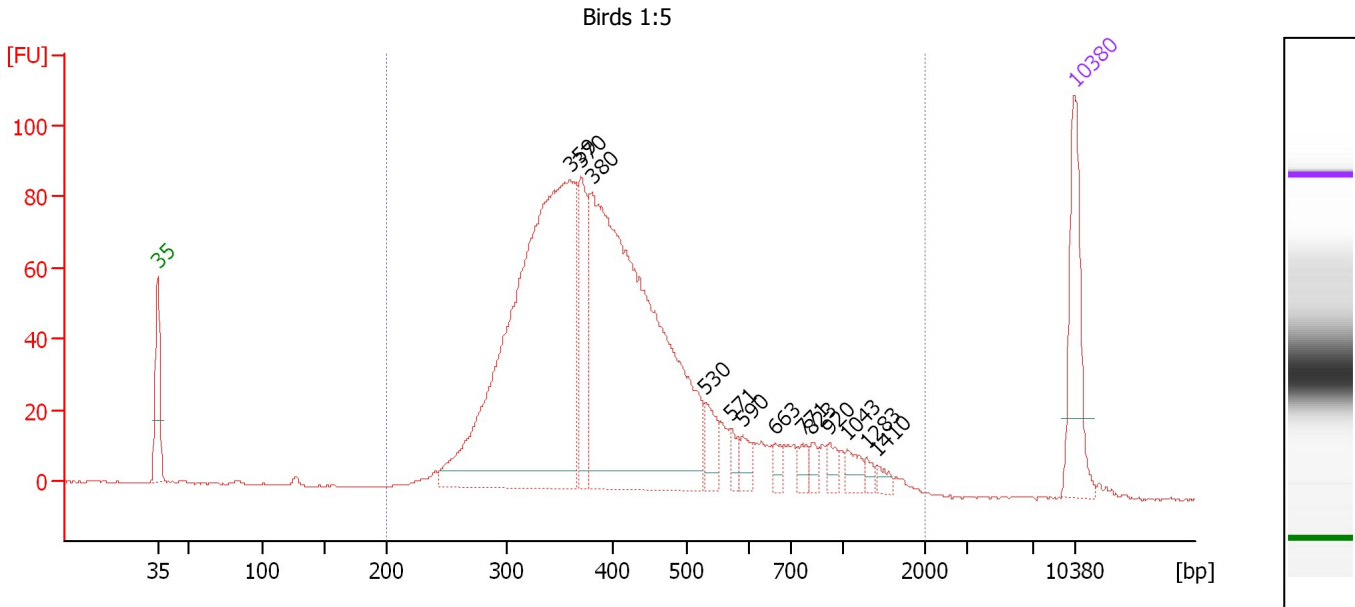
Peak table for Ladder

| 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 | 45.38 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.00 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.77 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.49 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.70 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.74 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.45 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.17 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.30 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.37 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.64 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.82 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.91 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Birds 1:5

Number of peaks found: 13 Corr. Area 1: 1,668.4
 Noise: 0.3

Peak table for sample 1 : Birds 1:5

| 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 | 359 | 742.65 | 3,130.4 | | 74.48 |
| 3 | 370 | 99.69 | 408.3 | | 75.33 |
| 4 | 380 | 691.08 | 2,752.3 | | 76.17 |
| 5 | 530 | 30.59 | 87.5 | | 84.85 |
| 6 | 571 | 11.35 | 30.1 | | 86.82 |
| 7 | 590 | 17.37 | 44.6 | | 87.71 |
| 8 | 663 | 12.92 | 29.5 | | 90.15 |
| 9 | 771 | 11.16 | 21.9 | | 92.26 |
| 10 | 823 | 10.34 | 19.1 | | 92.97 |
| 11 | 920 | 12.41 | 20.5 | | 94.28 |
| 12 | 1,043 | 14.56 | 21.1 | | 95.64 |
| 13 | 1,283 | 6.31 | 7.4 | | 97.14 |
| 14 | 1,410 | 7.22 | 7.8 | | 97.94 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

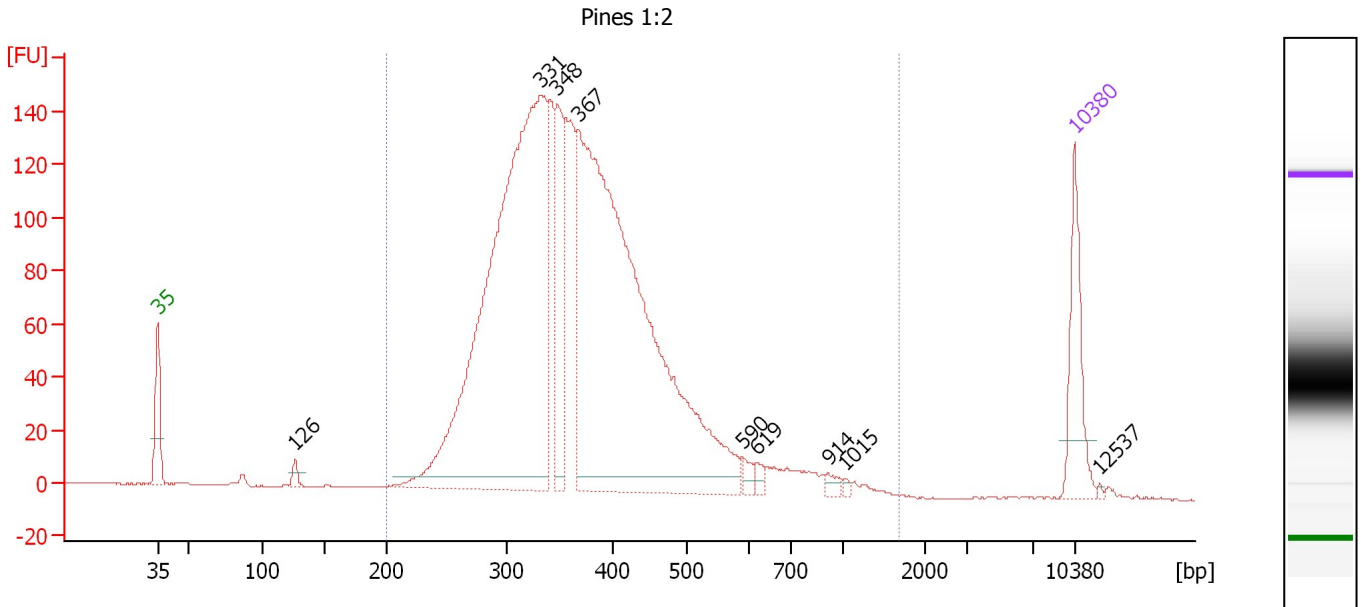
Region table for sample 1 : Birds 1:5

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 1,992 | 445 | 1,668.4 | 7,037.9 | 1,787.42 | 99 | 46.7 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Pines 1:2

Number of peaks found: 9 Corr. Area 1: 2,659.3
 Noise: 0.2

Peak table for sample 2 : Pines 1:2

| 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 | 126 | 12.15 | 145.8 | | 53.50 |
| 3 | 331 | 1,091.72 | 4,994.3 | | 72.21 |
| 4 | 348 | 151.29 | 659.6 | | 73.52 |
| 5 | 367 | 1,094.48 | 4,514.3 | | 75.12 |
| 6 | 590 | 11.86 | 30.5 | | 87.68 |
| 7 | 619 | 8.86 | 21.7 | | 88.76 |
| 8 | 914 | 8.41 | 13.9 | | 94.20 |
| 9 | 1,015 | 3.15 | 4.7 | | 95.46 |
| 10 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 11 | 12,537 | 0.00 | 0.0 | | 114.97 |

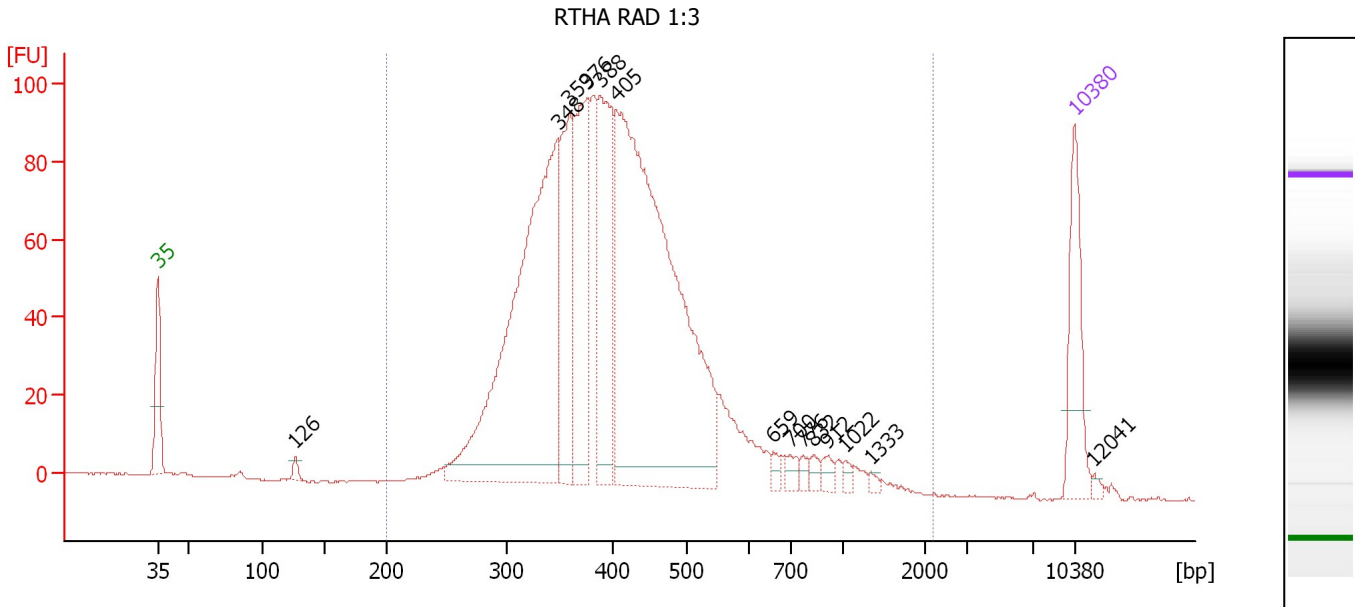
Region table for sample 2 : Pines 1:2

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200 | 1,668 | 381 | 2,659.3 | 11,492.5 | 2,678.53 | 99 | 30.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RTHA RAD 1:3

Number of peaks found: 14 Corr. Area 1: 1,798.6
 Noise: 0.2

Peak table for sample 3 : RTHA RAD 1:3

| 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 | 126 | 8.61 | 103.1 | | 53.52 |
| 3 | 348 | 611.11 | 2,659.9 | | 73.57 |
| 4 | 359 | 159.41 | 673.3 | | 74.42 |
| 5 | 376 | 200.14 | 805.7 | | 75.84 |
| 6 | 388 | 197.13 | 769.5 | | 76.79 |
| 7 | 405 | 777.12 | 2,907.8 | | 78.02 |
| 8 | 659 | 8.36 | 19.2 | | 90.01 |
| 9 | 700 | 12.11 | 26.2 | | 91.29 |
| 10 | 776 | 7.96 | 15.5 | | 92.34 |
| 11 | 832 | 8.70 | 15.8 | | 93.09 |
| 12 | 912 | 9.58 | 15.9 | | 94.18 |
| 13 | 1,022 | 6.47 | 9.6 | | 95.51 |
| 14 | 1,333 | 4.09 | 4.6 | | 97.45 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 16 | 12,041 | 0.00 | 0.0 | | 114.52 |

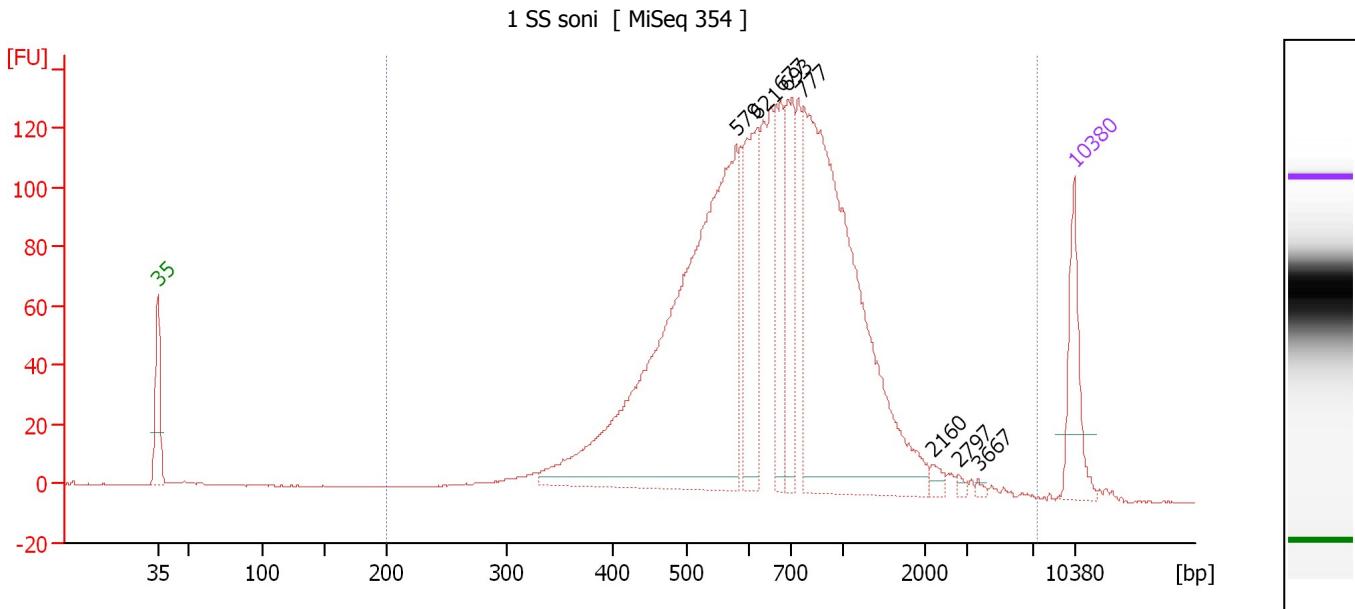
Region table for sample 3 : RTHA RAD 1:3

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 2,198 | 423 | 1,798.6 | 8,680.5 | 2,228.80 | 99 | 32.7 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1 SS soni

Number of peaks found: 8 Corr. Area 1: 2,319.2
 Noise: 0.1

Peak table for sample 4 : 1 SS soni

| 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 | 579 | 911.43 | 2,384.0 | | 87.19 |
| 3 | 621 | 189.01 | 461.1 | | 88.83 |
| 4 | 677 | 126.88 | 284.2 | | 90.57 |
| 5 | 693 | 136.23 | 297.7 | | 91.10 |
| 6 | 777 | 763.08 | 1,487.3 | | 92.35 |
| 7 | 2,160 | 10.00 | 7.0 | | 102.15 |
| 8 | 2,797 | 4.66 | 2.5 | | 104.17 |
| 9 | 3,667 | 3.38 | 1.4 | | 105.67 |
| 10 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

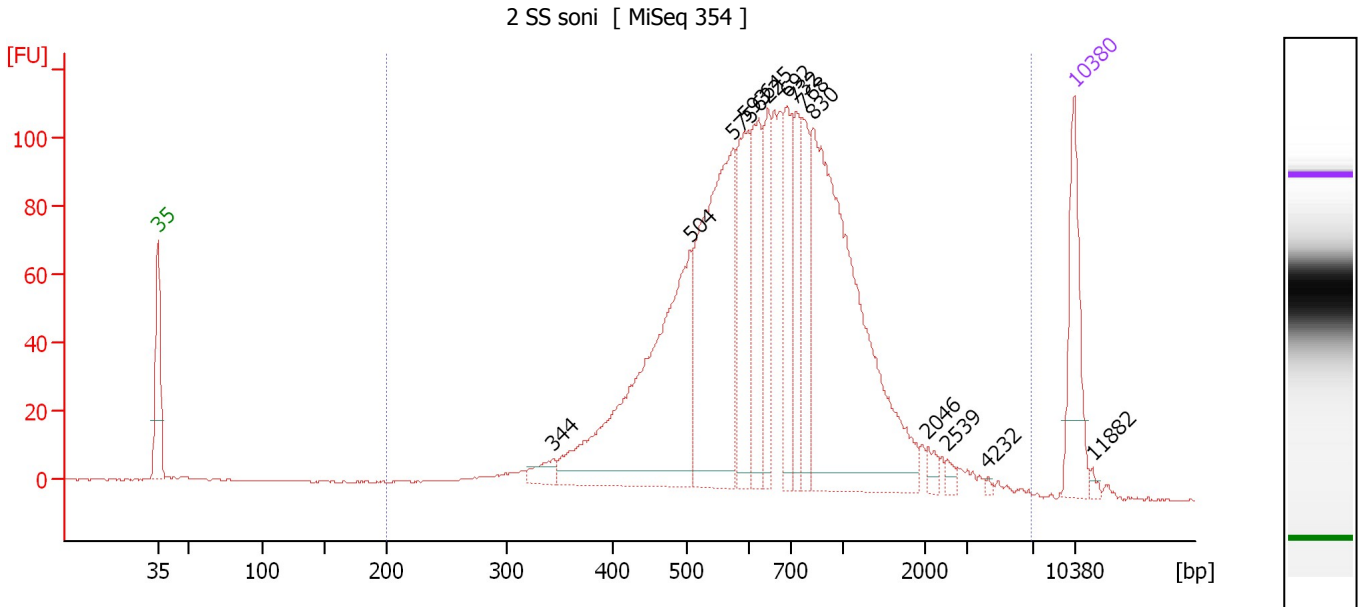
Region table for sample 4 : 1 SS soni

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200 | 7,251 | 769 | 2,319.2 | 6,305.2 | 2,570.58 | 99 | 59.7 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 2 SS soni

Number of peaks found: 14 Corr. Area 1: 2,011.9
 Noise: 0.2

Peak table for sample 5 : 2 SS soni

| 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 | 344 | 20.10 | 88.6 | | 73.22 |
| 3 | 504 | 397.22 | 1,193.1 | | 83.66 |
| 4 | 575 | 312.42 | 823.3 | | 86.99 |
| 5 | 593 | 123.34 | 315.3 | | 87.82 |
| 6 | 622 | 109.21 | 266.2 | | 88.85 |
| 7 | 645 | 82.40 | 193.5 | | 89.59 |
| 8 | 692 | 78.47 | 171.8 | | 91.05 |
| 9 | 732 | 82.12 | 169.9 | | 91.74 |
| 10 | 768 | 72.80 | 143.6 | | 92.23 |
| 11 | 830 | 469.49 | 857.3 | | 93.06 |
| 12 | 2,046 | 8.82 | 6.5 | | 101.78 |
| 13 | 2,539 | 5.73 | 3.4 | | 103.35 |
| 14 | 4,232 | 2.16 | 0.8 | | 106.39 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 16 | 11,882 | 0.00 | 0.0 | | 114.37 |

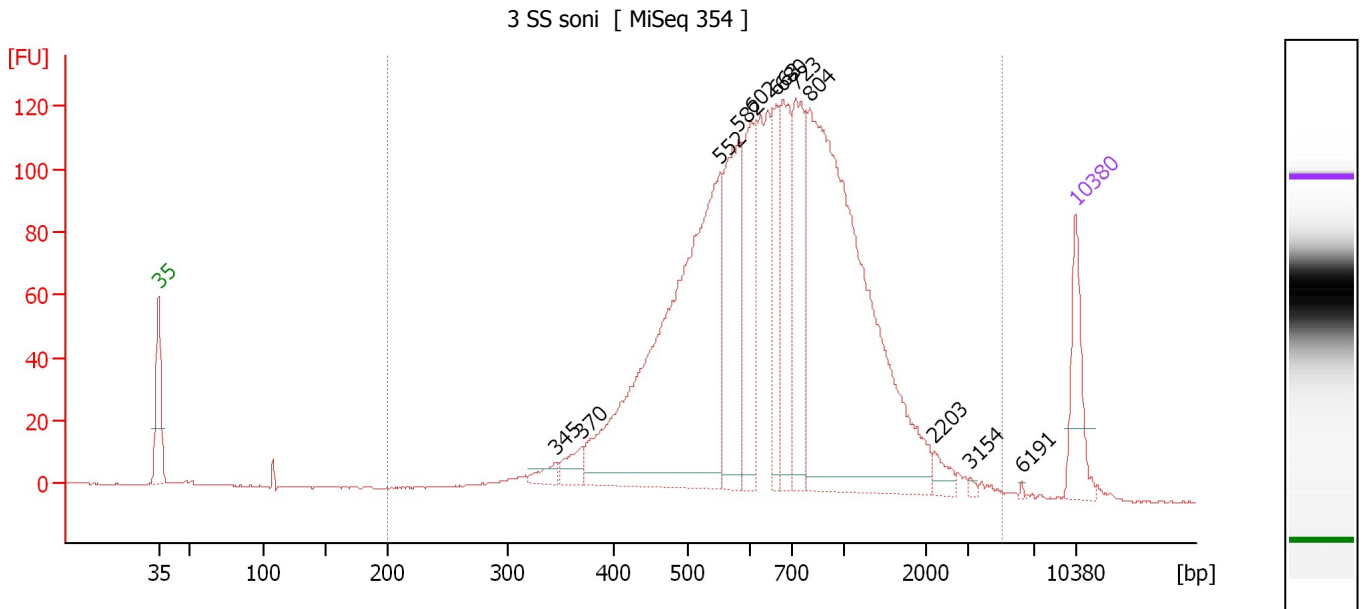
Region table for sample 5 : 2 SS soni

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 6,786 | 775 | 2,011.9 | 4,885.0 | 1,965.68 | 98 | 62.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 3 SS soni

Number of peaks found: 12 Corr. Area 1: 2,273.7
 Noise: 0.2

Peak table for sample 6 : 3 SS soni

| 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 | 345 | 21.54 | 94.6 | | 73.31 |
| 3 | 370 | 34.64 | 141.8 | | 75.35 |
| 4 | 552 | 805.45 | 2,210.0 | | 85.91 |
| 5 | 582 | 235.97 | 614.7 | | 87.30 |
| 6 | 602 | 173.23 | 435.7 | | 88.24 |
| 7 | 663 | 114.62 | 262.1 | | 90.13 |
| 8 | 680 | 168.72 | 375.9 | | 90.68 |
| 9 | 723 | 184.26 | 386.0 | | 91.62 |
| 10 | 804 | 875.67 | 1,650.8 | | 92.71 |
| 11 | 2,203 | 18.57 | 12.8 | | 102.28 |
| 12 | 3,154 | 3.31 | 1.6 | | 105.01 |
| 13 | 6,191 | 1.52 | 0.4 | | 108.88 |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

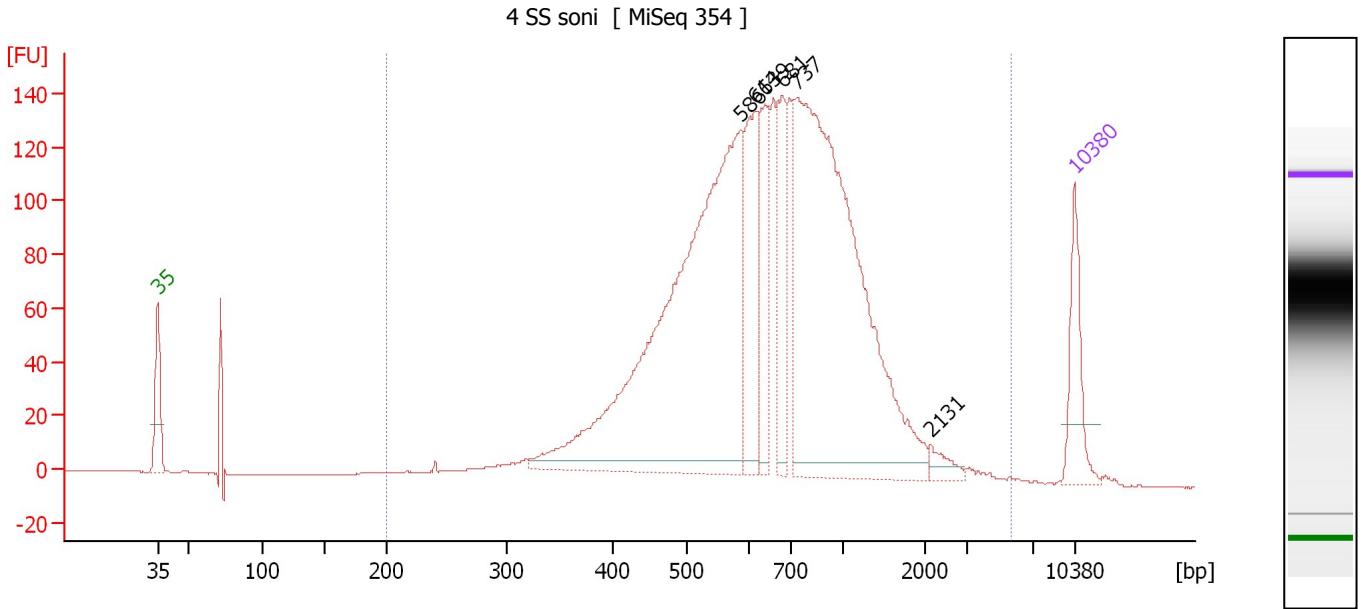
Region table for sample 6 : 3 SS soni

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 5,077 | 781 | 2,273.7 | 7,091.2 | 2,926.16 | 99 | 54.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 4 SS soni

Number of peaks found: 6 Corr. Area 1: 2,530.1
 Noise: 0.1

Peak table for sample 7 : 4 SS soni

| 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 | 586 | 985.66 | 2,550.2 | | 87.49 |
| 3 | 614 | 172.09 | 425.0 | | 88.60 |
| 4 | 639 | 137.55 | 326.0 | | 89.40 |
| 5 | 681 | 116.45 | 259.1 | | 90.70 |
| 6 | 737 | 936.95 | 1,925.4 | | 91.81 |
| 7 | 2,131 | 19.07 | 13.6 | | 102.05 |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

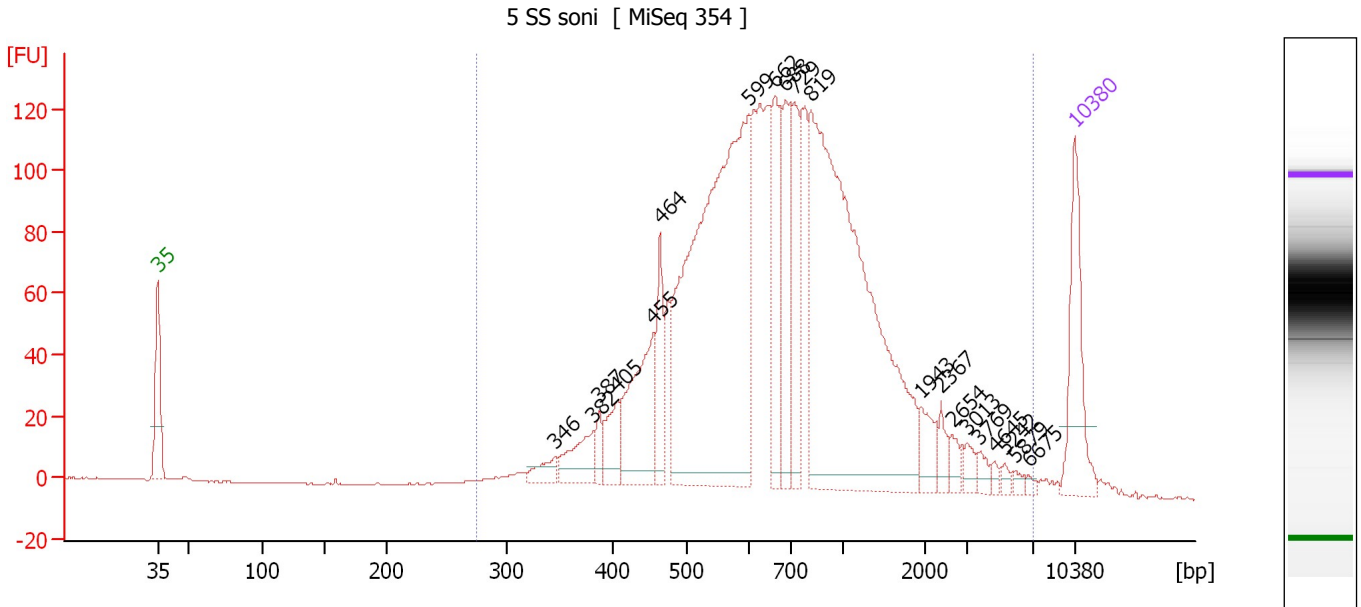
Region table for sample 7 : 4 SS soni

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 5,650 | 757 | 2,530.1 | 6,541.6 | 2,658.36 | 99 | 51.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 5 SS soni

Number of peaks found: 20 Corr. Area 1: 2,403.8
 Noise: 0.2

Peak table for sample 8 : 5 SS soni

| 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 | 346 | 19.20 | 84.1 | | 73.38 |
| 3 | 382 | 45.15 | 179.2 | | 76.28 |
| 4 | 387 | 17.72 | 69.3 | | 76.73 |
| 5 | 405 | 38.75 | 144.8 | | 78.05 |
| 6 | 455 | 124.78 | 415.3 | | 80.89 |
| 7 | 464 | 59.34 | 193.7 | | 81.40 |
| 8 | 599 | 589.28 | 1,489.4 | | 88.14 |
| 9 | 662 | 106.18 | 242.9 | | 90.12 |
| 10 | 688 | 99.67 | 219.4 | | 90.93 |
| 11 | 729 | 97.13 | 201.9 | | 91.70 |
| 12 | 819 | 601.40 | 1,113.0 | | 92.91 |
| 13 | 1,943 | 26.31 | 20.5 | | 101.28 |
| 14 | 2,367 | 14.75 | 9.4 | | 102.80 |
| 15 | 2,654 | 11.31 | 6.5 | | 103.72 |
| 16 | 3,013 | 10.12 | 5.1 | | 104.83 |
| 17 | 3,769 | 9.04 | 3.6 | | 105.80 |
| 18 | 4,645 | 4.78 | 1.6 | | 106.91 |
| 19 | 5,242 | 4.95 | 1.4 | | 107.67 |
| 20 | 5,879 | 4.64 | 1.2 | | 108.49 |
| 21 | 6,675 | 3.29 | 0.7 | | 109.50 |
| 22 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...

... Region table for sample 8 :

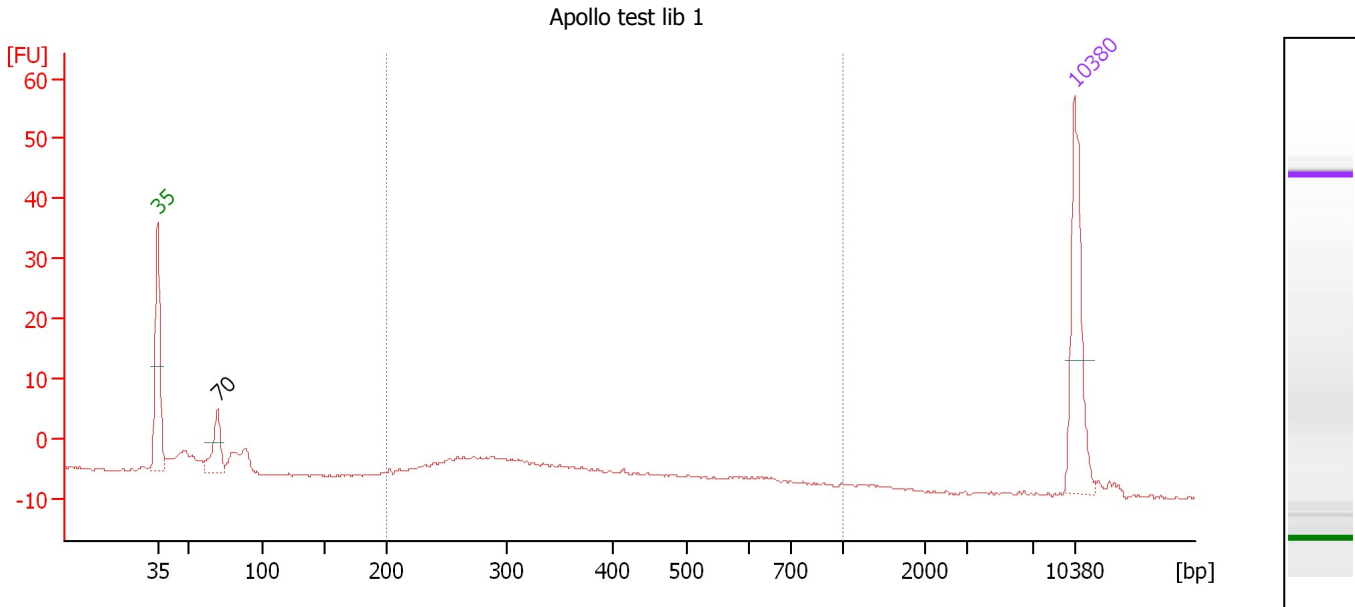
5 SS soni

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|--|------------|-----------------------------|
| 274 | 6,906 | 888 | 2,403.8 | 5,213.7 |  2,210.52 | 99 | 81.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Apollo test lib 1

Number of peaks found: 1 Corr. Area 1: 13.1
 Noise: 0.1

Peak table for sample 9 : Apollo test lib 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 | 70 | 44.72 | 973.5 | | 47.59 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

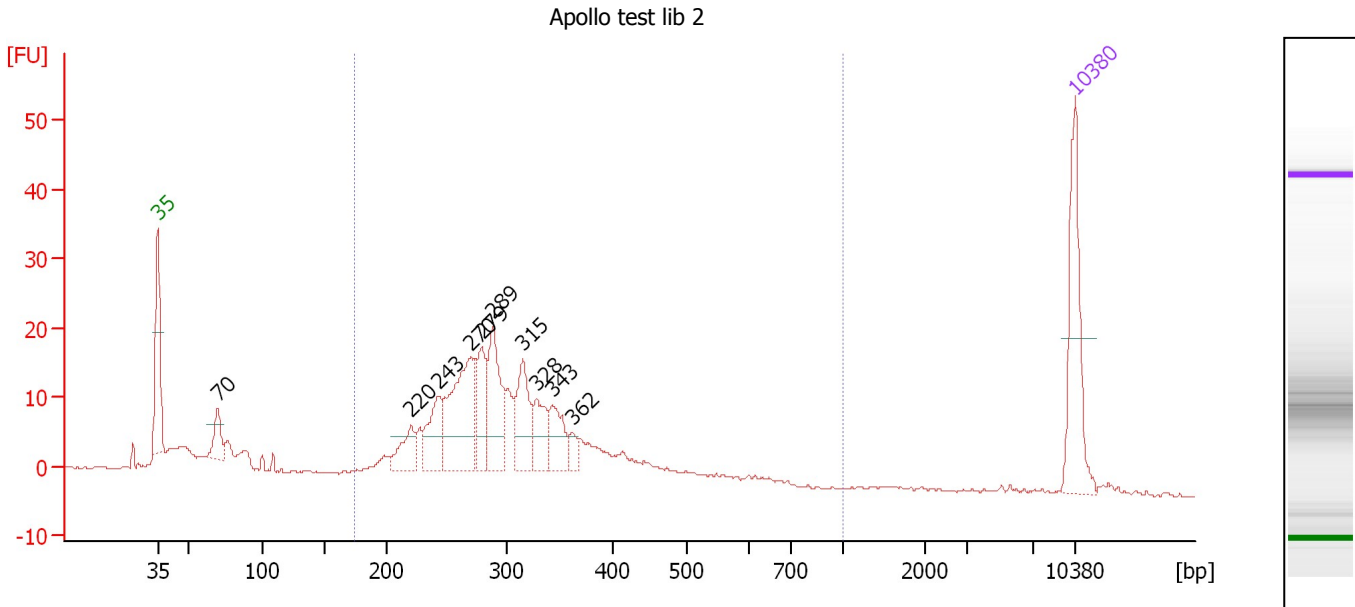
Region table for sample 9 : Apollo test lib 1

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 1,000 | 294 | 13.1 | 157.3 | 30.13 | 53 | 10.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Apollo test lib 2

Number of peaks found: 10 Corr. Area 1: 281.0
 Noise: 0.2

Peak table for sample 10 : Apollo test 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 | 70 | 30.86 | 670.5 | | 47.60 |
| 3 | 220 | 36.11 | 248.3 | | 62.36 |
| 4 | 243 | 51.27 | 319.5 | | 64.46 |
| 5 | 270 | 132.06 | 741.8 | | 66.91 |
| 6 | 279 | 56.47 | 306.5 | | 67.78 |
| 7 | 289 | 79.23 | 416.0 | | 68.65 |
| 8 | 315 | 61.62 | 296.5 | | 70.90 |
| 9 | 328 | 38.70 | 179.0 | | 71.92 |
| 10 | 343 | 39.33 | 173.8 | | 73.15 |
| 11 | 362 | 11.95 | 50.0 | | 74.68 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

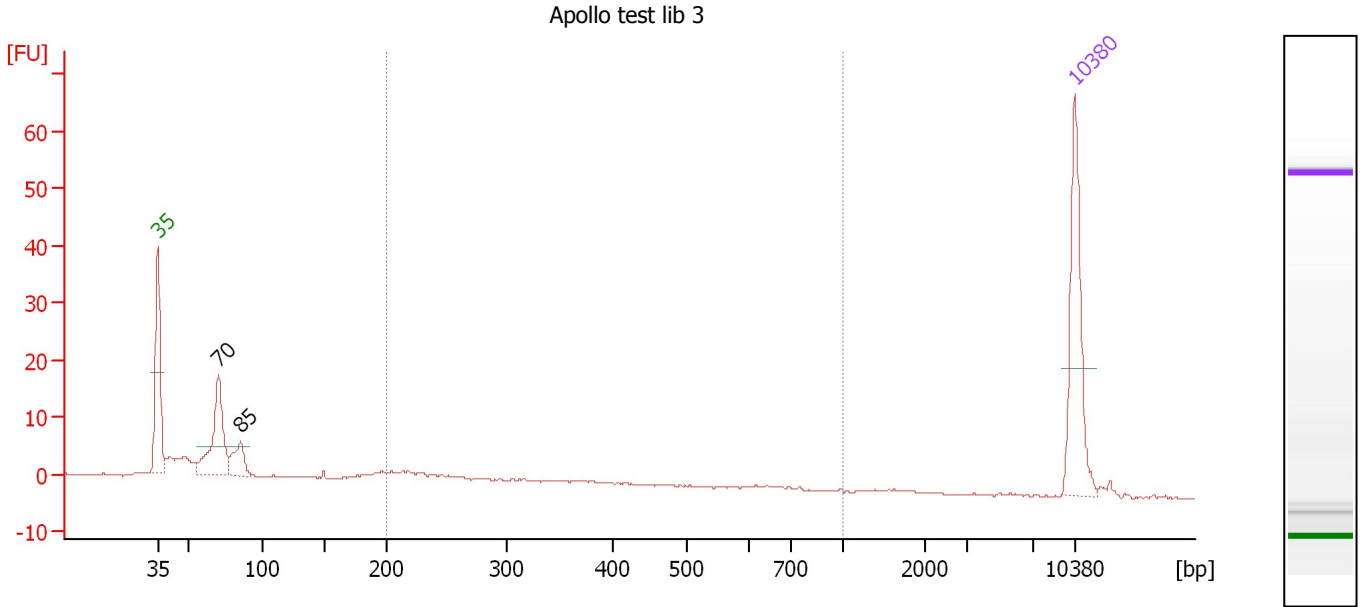
Region table for sample 10 : Apollo test lib 2

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 174 | 1,000 | 312 | 281.0 | 3,761.9 | 723.67 | 83 | 25.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Apollo test lib 3

Number of peaks found: 2 Corr. Area 1: 13.8
 Noise: 0.2

Peak table for sample 11 : Apollo test 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 | 70 | 94.32 | 2,039.8 | | 47.64 |
| 3 | 85 | 32.35 | 575.3 | | 49.34 |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

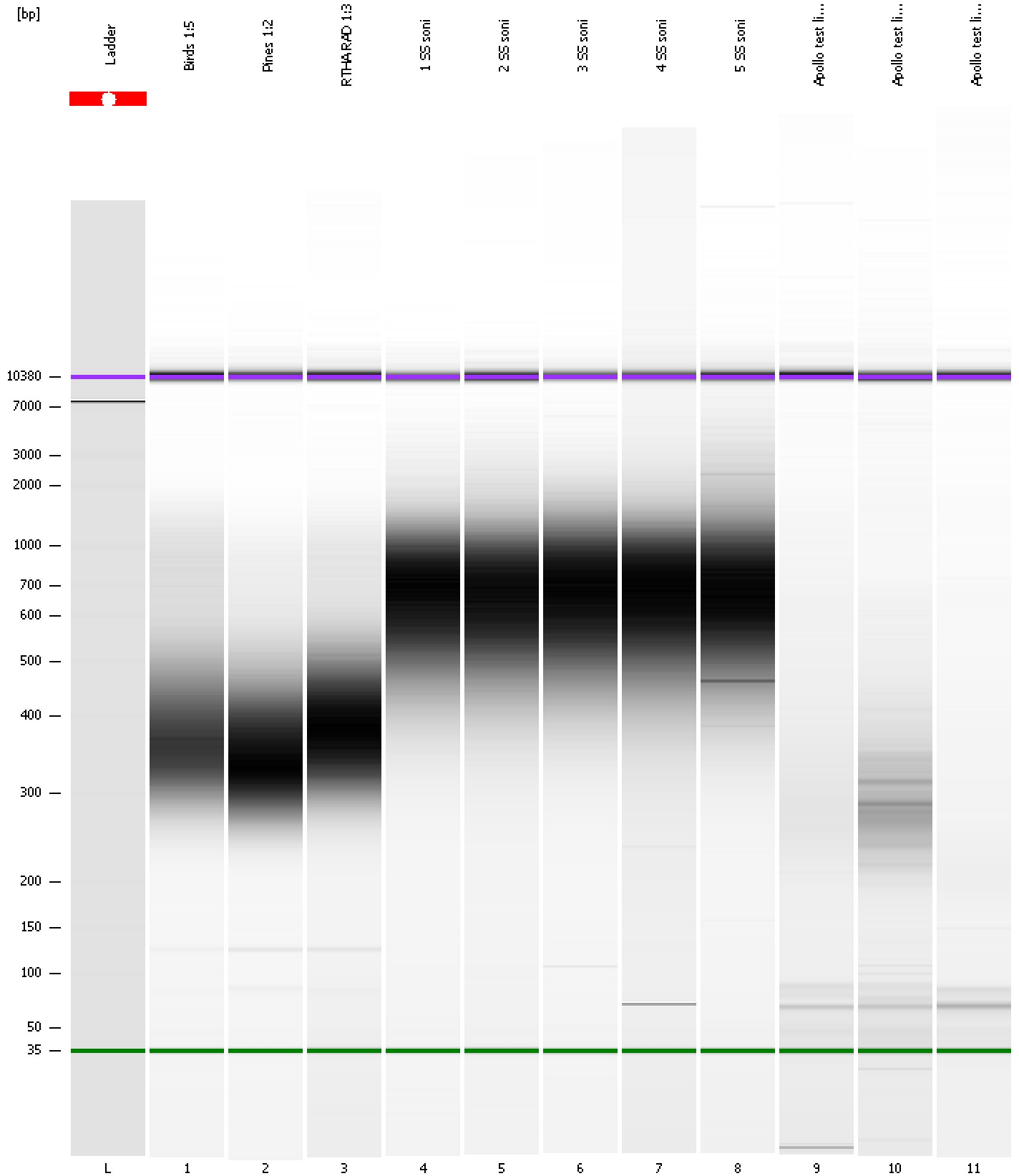
Region table for sample 11 : Apollo test lib 3

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200 | 1,000 | 255 | 13.8 | 191.2 | 31.15 | 15 | 19.3 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
Modified: 6/23/2016 10:13:04 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad

Created: 6/23/2016 9:31:46 AM
 Modified: 6/23/2016 10:13:04 AM

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 | | 6/23/2016 10:13:03 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Instrument error occurred on port 1, Optical signal too high (1605h) | 559 | Instrument | Run | Ladder | 6/23/2016 9:41:44 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-23\2016-06-23_001.xad) | | Instrument | Run | | 6/23/2016 9:31:51 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 6/23/2016 9:31:51 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 6/23/2016 9:31:51 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 6/23/2016 9:31:51 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 6/23/2016 9:31:51 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 6/23/2016 9:31:51 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 6/23/2016 9:31:51 AM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |