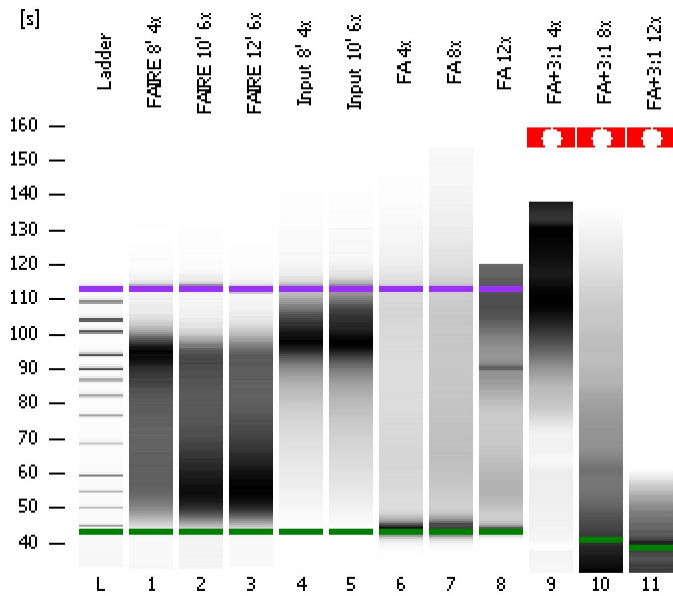


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
Modified: 3/13/2015 11:08:07 AM

Electrophoresis File Run Summary



Instrument Information:

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

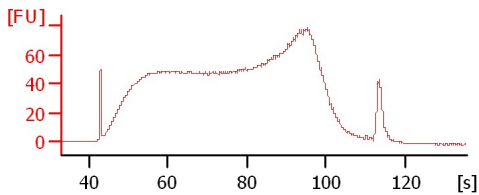
Assay Information:

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

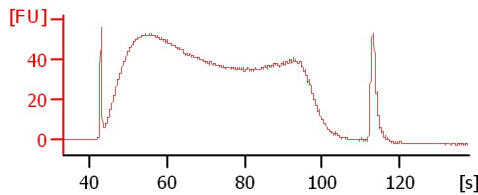
Chip Information:

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

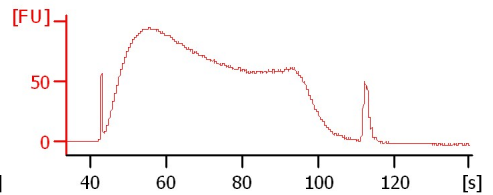
FAIRE 8' 4x



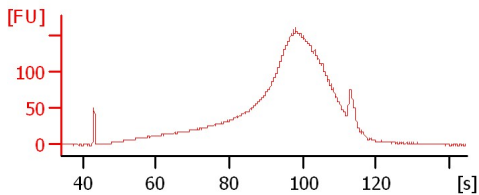
FAIRE 10' 6x



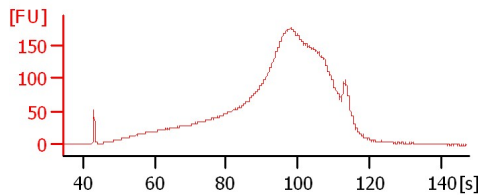
FAIRE 12' 6x



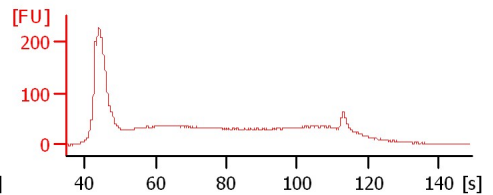
Input 8' 4x



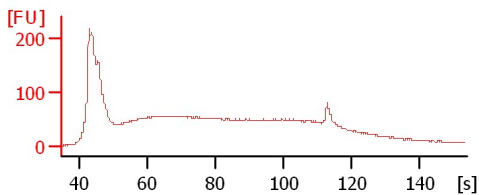
Input 10' 6x



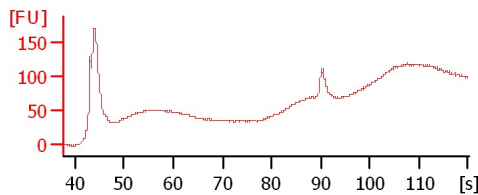
FA 4x



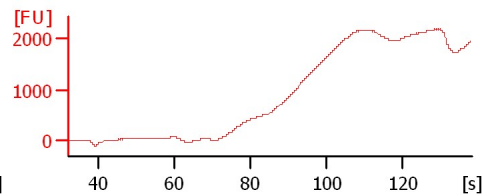
FA 8x



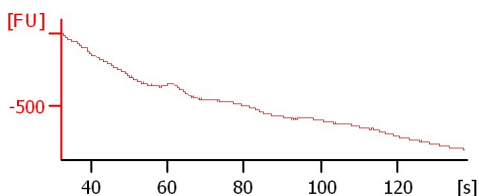
FA 12x



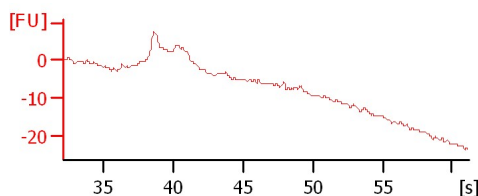
FA+3:1 4x



FA+3:1 8x



FA+3:1 12x



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|--------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| FAIRE 8' 4x | | <input type="checkbox"/> | ✓ | | | |
| FAIRE 10' 6x | | <input type="checkbox"/> | ✓ | | | |
| FAIRE 12' 6x | | <input type="checkbox"/> | ✓ | | | |
| Input 8' 4x | | <input type="checkbox"/> | ✓ | | | |
| Input 10' 6x | | <input type="checkbox"/> | ✓ | | | |
| FA 4x | | <input type="checkbox"/> | ✓ | | | |
| FA 8x | | <input type="checkbox"/> | ✓ | | | |
| FA 12x | | <input type="checkbox"/> | ✓ | | | |
| FA+3:1 4x | | <input type="checkbox"/> | ✓ | | | |
| FA+3:1 8x | | <input type="checkbox"/> | ✓ | | | |
| FA+3:1 12x | | <input type="checkbox"/> | ✗ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
Modified: 3/13/2015 11:08:07 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

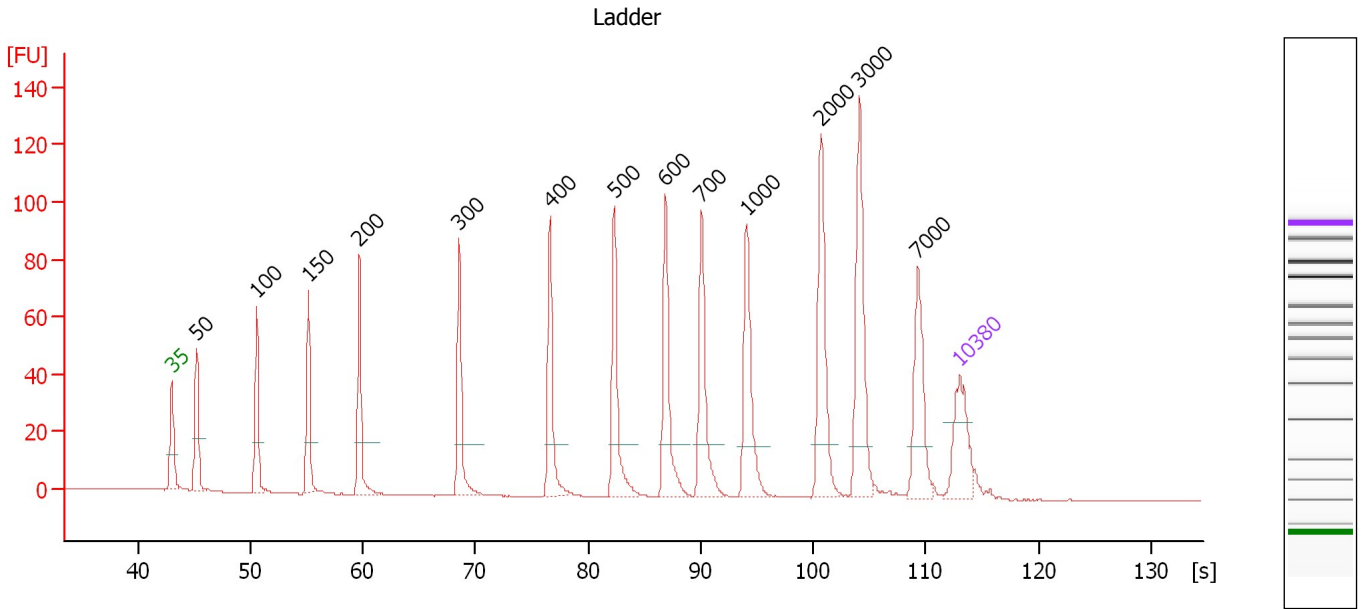
Ladder

| 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:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

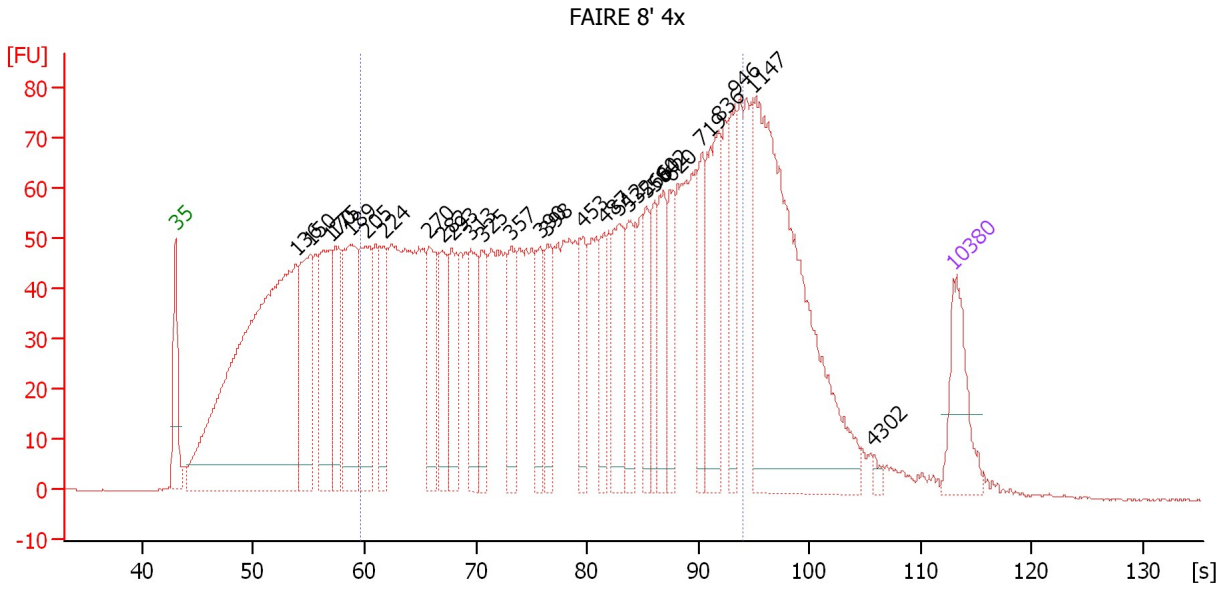
Peak table for Ladder

| 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 | 45.19 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.54 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.12 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 59.65 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 68.53 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 76.59 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.32 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 86.85 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.10 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.06 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 100.69 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.12 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.28 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : FAIRE 8' 4x

Number of peaks found: 28 Corr. Area 1: 2,469.8
 Noise: 0.2

Peak table for sample 1 : FAIRE 8' 4x

| 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 | 136 | 1,147.59 | 12,801.6 | | 53.82 |
| 3 | 150 | 226.84 | 2,290.4 | | 55.13 |
| 4 | 170 | 209.98 | 1,868.0 | | 56.96 |
| 5 | 175 | 142.34 | 1,235.4 | | 57.35 |
| 6 | 189 | 240.17 | 1,920.4 | | 58.70 |
| 7 | 205 | 190.76 | 1,409.5 | | 60.10 |
| 8 | 224 | 108.99 | 738.7 | | 61.74 |
| 9 | 270 | 134.11 | 753.1 | | 65.85 |
| 10 | 282 | 104.45 | 560.5 | | 66.96 |
| 11 | 293 | 107.92 | 558.7 | | 67.88 |
| 12 | 313 | 119.78 | 580.0 | | 69.57 |
| 13 | 325 | 83.02 | 386.4 | | 70.58 |
| 14 | 357 | 88.30 | 374.5 | | 73.14 |
| 15 | 390 | 72.41 | 281.2 | | 75.80 |
| 16 | 398 | 72.13 | 274.6 | | 76.43 |
| 17 | 453 | 84.94 | 284.2 | | 79.62 |
| 18 | 487 | 70.05 | 217.7 | | 81.60 |
| 19 | 512 | 117.12 | 346.7 | | 82.86 |
| 20 | 532 | 83.10 | 236.6 | | 83.77 |
| 21 | 566 | 64.45 | 172.5 | | 85.32 |
| 22 | 584 | 59.47 | 154.2 | | 86.14 |
| 23 | 602 | 82.69 | 208.2 | | 86.91 |
| 24 | 620 | 60.66 | 148.3 | | 87.49 |
| 25 | 719 | 87.20 | 183.8 | | 90.34 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad


Created: 3/13/2015 10:28:17 AM
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Electropherogram Summary Continued ...

... Peak table for sample 1 : FAIRE 8' 4x

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 836 | 156.28 | 283.3 | | 91.89 |
| 27 | 946 | 87.89 | 140.8 | | 93.34 |
| 28 | 1,147 | 529.26 | 699.4 | | 95.03 |
| 29 | 4,302 | 6.88 | 2.4 | | 105.80 |
| 30 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

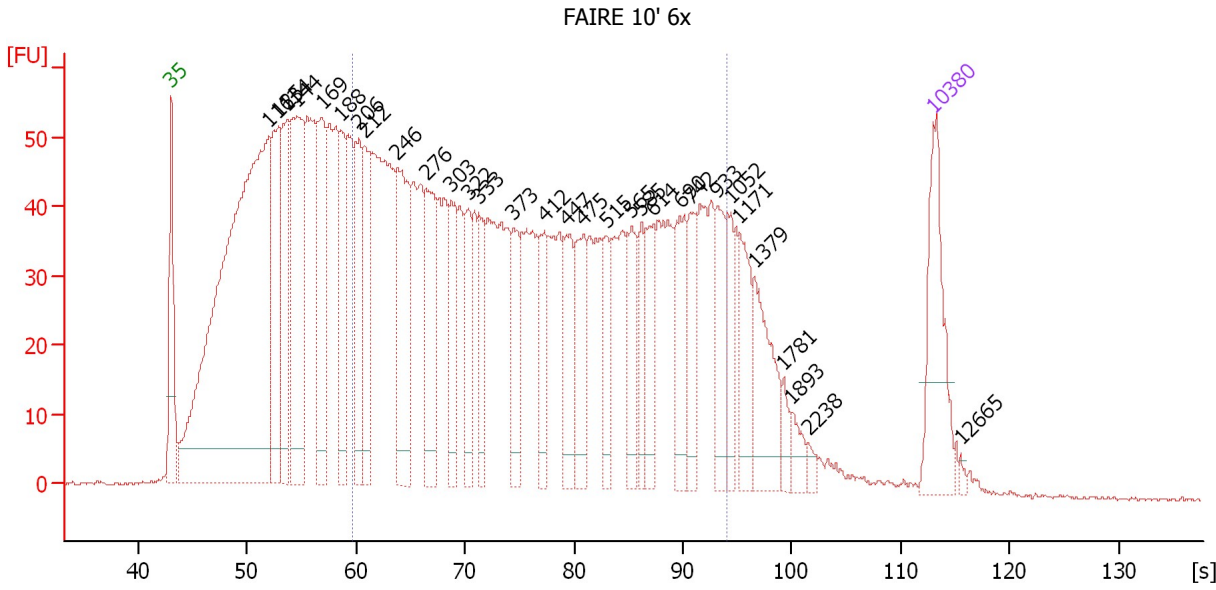
Region table for sample 1 : FAIRE 8' 4x

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|---|
| 200 | 480 | 1,000 | 2,469.8 | 16,042.2 | 60 | 43.4 | 3,885.76 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : FAIRE 10' 6x

Number of peaks found: 31 Corr. Area 1: 1,885.6
 Noise: 0.2

Peak table for sample 2 : FAIRE 10' 6x

| 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 | 116 | 987.00 | 12,924.5 | | 51.98 |
| 3 | 125 | 159.35 | 1,933.7 | | 52.82 |
| 4 | 134 | 149.04 | 1,685.0 | | 53.66 |
| 5 | 144 | 238.31 | 2,503.2 | | 54.59 |
| 6 | 169 | 134.25 | 1,205.9 | | 56.81 |
| 7 | 188 | 98.94 | 796.3 | | 58.59 |
| 8 | 206 | 90.83 | 667.0 | | 60.22 |
| 9 | 212 | 101.30 | 722.4 | | 60.76 |
| 10 | 246 | 159.71 | 982.2 | | 63.77 |
| 11 | 276 | 105.63 | 580.2 | | 66.38 |
| 12 | 303 | 76.88 | 384.7 | | 68.75 |
| 13 | 322 | 58.83 | 276.5 | | 70.33 |
| 14 | 333 | 56.00 | 254.6 | | 71.22 |
| 15 | 373 | 55.70 | 226.2 | | 74.42 |
| 16 | 412 | 51.31 | 188.7 | | 77.28 |
| 17 | 447 | 61.65 | 208.8 | | 79.31 |
| 18 | 475 | 69.07 | 220.3 | | 80.89 |
| 19 | 515 | 40.58 | 119.4 | | 83.01 |
| 20 | 565 | 44.32 | 118.8 | | 85.28 |
| 21 | 585 | 35.27 | 91.4 | | 86.16 |
| 22 | 614 | 48.34 | 119.3 | | 87.30 |
| 23 | 690 | 66.46 | 146.0 | | 89.77 |
| 24 | 742 | 47.06 | 96.1 | | 90.65 |
| 25 | 933 | 55.12 | 89.5 | | 93.17 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : FAIRE 10' 6x

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 1,052 | 32.40 | 46.7 | | 94.40 |
| 27 | 1,171 | 49.79 | 64.4 | | 95.19 |
| 28 | 1,379 | 70.27 | 77.2 | | 96.57 |
| 29 | 1,781 | 12.23 | 10.4 | | 99.24 |
| 30 | 1,893 | 13.55 | 10.8 | | 99.98 |
| 31 | 2,238 | 5.68 | 3.8 | | 101.51 |
| 32 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 33 | 12,665 | 0.00 | 0.0 | | 115.52 |

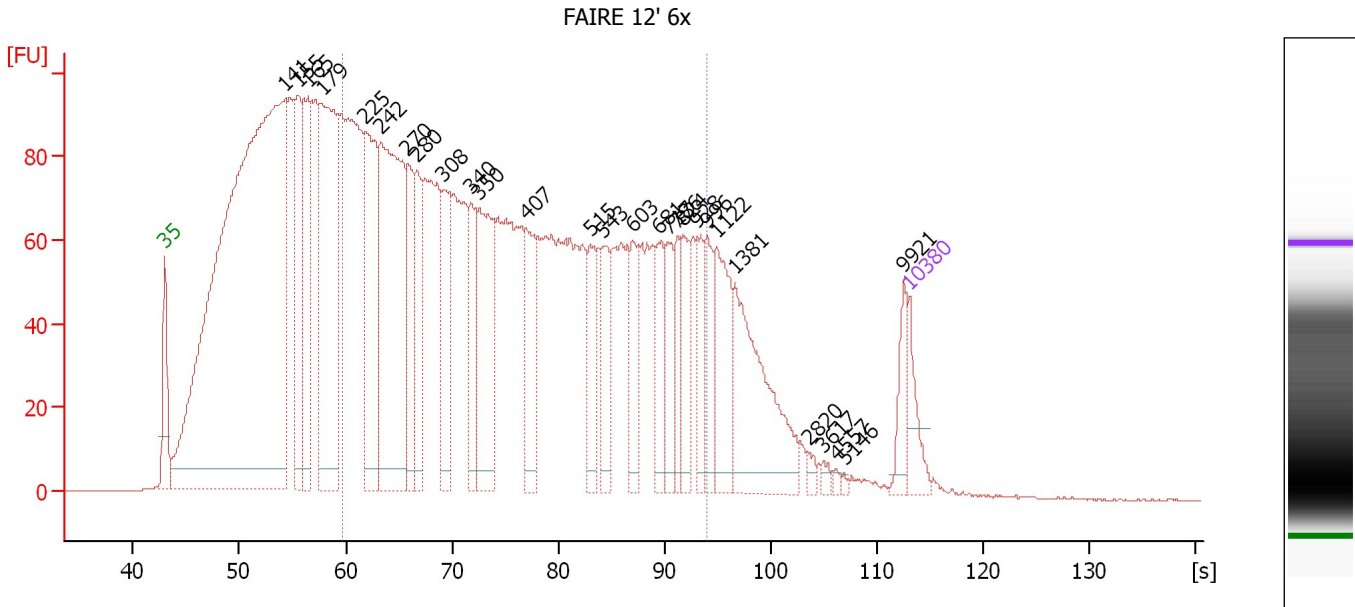
Region table for sample 2 : FAIRE 10' 6x

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/ μ l] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------------|-------------------------------------|
| 200 | 445 | 1,000 | 1,885.6 | 11,863.2 | 56 | 44.6 | 2,690.79 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : FAIRE 12' 6x

Number of peaks found: 28 Corr. Area 1: 3,186.0
 Noise: 0.1

Peak table for sample 3 : FAIRE 12' 6x

| 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 | 4,503.61 | 48,328.4 | | 54.31 |
| 3 | 155 | 472.90 | 4,621.9 | | 55.58 |
| 4 | 165 | 545.64 | 5,008.8 | | 56.48 |
| 5 | 179 | 1,044.96 | 8,846.0 | | 57.75 |
| 6 | 225 | 593.42 | 4,002.8 | | 61.84 |
| 7 | 242 | 1,084.55 | 6,798.9 | | 63.35 |
| 8 | 270 | 279.70 | 1,572.0 | | 65.83 |
| 9 | 280 | 231.90 | 1,255.7 | | 66.74 |
| 10 | 308 | 268.01 | 1,316.4 | | 69.21 |
| 11 | 340 | 208.44 | 929.5 | | 71.74 |
| 12 | 350 | 448.71 | 1,943.5 | | 72.55 |
| 13 | 407 | 262.21 | 976.3 | | 76.99 |
| 14 | 515 | 168.98 | 497.1 | | 83.00 |
| 15 | 543 | 153.47 | 428.3 | | 84.26 |
| 16 | 603 | 160.10 | 402.5 | | 86.94 |
| 17 | 681 | 144.38 | 321.5 | | 89.46 |
| 18 | 717 | 143.09 | 302.3 | | 90.32 |
| 19 | 786 | 107.19 | 206.6 | | 91.23 |
| 20 | 824 | 138.17 | 254.0 | | 91.74 |
| 21 | 928 | 106.98 | 174.7 | | 93.10 |
| 22 | 996 | 129.56 | 197.0 | | 94.01 |
| 23 | 1,122 | 224.09 | 302.5 | | 94.87 |
| 24 | 1,381 | 400.66 | 439.5 | | 96.59 |
| 25 | 2,820 | 14.68 | 7.9 | | 103.51 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad


Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : FAIRE 12' 6x

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 3,617 | 12.90 | 5.4 | | 104.92 |
| 27 | 4,557 | 8.40 | 2.8 | | 106.13 |
| 28 | 5,146 | 5.41 | 1.6 | | 106.89 |
| 29 | 9,921 | 73.28 | 11.2 | | 112.49 |
| 30 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

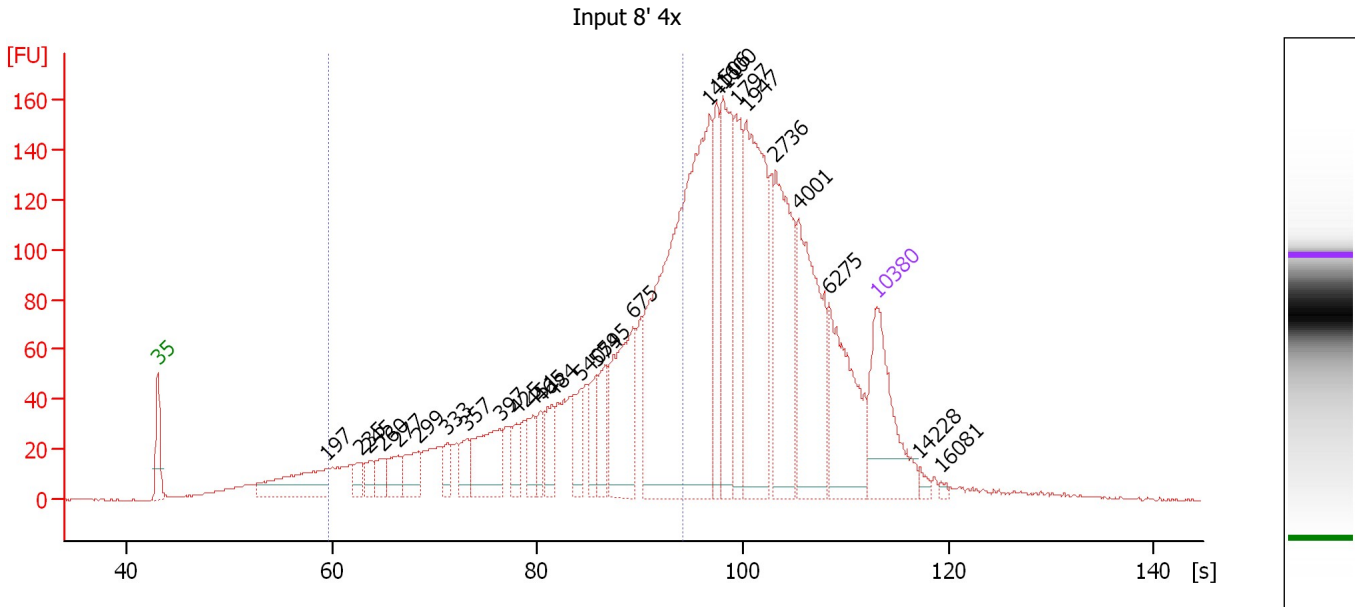
Region table for sample 3 : FAIRE 12' 6x

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|---|
| 200 | 432 | 1,000 | 3,186.0 | 40,569.9 | 55 | 44.8 | 9,021.12 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Input 8' 4x

Number of peaks found: 27 Corr. Area 1: 1,589.6
 Noise: 0.2

Peak table for sample 4 : Input 8' 4x

| 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 | 197 | 74.54 | 573.5 | | 59.38 |
| 3 | 235 | 15.16 | 97.9 | | 62.72 |
| 4 | 245 | 14.71 | 91.1 | | 63.61 |
| 5 | 260 | 17.64 | 102.8 | | 64.97 |
| 6 | 277 | 24.06 | 131.6 | | 66.49 |
| 7 | 299 | 31.96 | 162.0 | | 68.43 |
| 8 | 333 | 16.78 | 76.3 | | 71.20 |
| 9 | 357 | 19.22 | 81.5 | | 73.13 |
| 10 | 397 | 61.92 | 236.5 | | 76.33 |
| 11 | 425 | 18.44 | 65.8 | | 78.00 |
| 12 | 451 | 22.42 | 75.3 | | 79.52 |
| 13 | 465 | 16.94 | 55.2 | | 80.30 |
| 14 | 484 | 25.98 | 81.3 | | 81.40 |
| 15 | 540 | 25.40 | 71.3 | | 84.12 |
| 16 | 574 | 23.93 | 63.1 | | 85.69 |
| 17 | 595 | 30.21 | 76.9 | | 86.63 |
| 18 | 675 | 102.76 | 230.5 | | 89.30 |
| 19 | 1,411 | 376.18 | 404.0 | | 96.78 |
| 20 | 1,506 | 50.26 | 50.6 | | 97.41 |
| 21 | 1,600 | 95.70 | 90.6 | | 98.04 |
| 22 | 1,797 | 64.43 | 54.3 | | 99.35 |
| 23 | 1,947 | 155.98 | 121.4 | | 100.34 |
| 24 | 2,736 | 107.29 | 59.4 | | 103.22 |
| 25 | 4,001 | 119.16 | 45.1 | | 105.41 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad


Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 4 : Input 8' 4x

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 6,275 | 87.98 | 21.2 | | 108.34 |
| 27 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 28 | 14,228 | 0.00 | 0.0 | | 117.24 |
| 29 | 16,081 | 0.00 | 0.0 | | 119.28 |

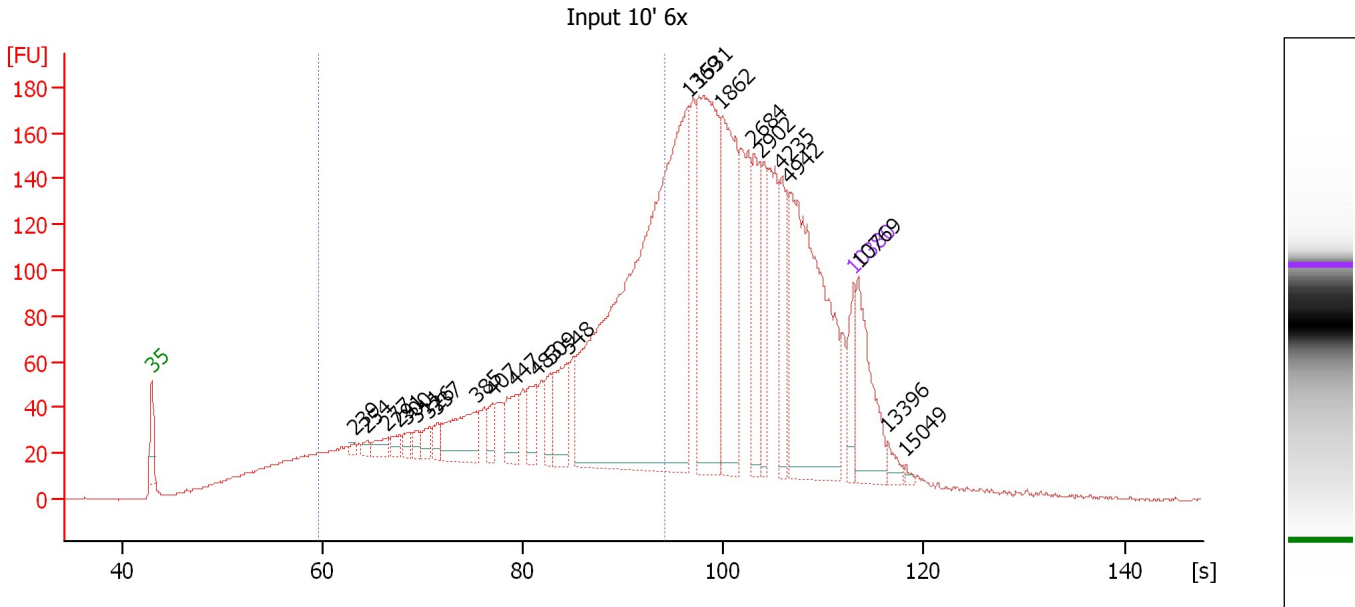
Region table for sample 4 : Input 8' 4x

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|---|
| 200 | 579 | 1,000 | 1,589.6 | 3,137.2 | 41 | 37.6 | 931.70 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Input 10' 6x

Number of peaks found: 24 Corr. Area 1: 2,148.8
 Noise: 0.4

Peak table for sample 5 : Input 10' 6x

| 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 | 239 | 10.85 | 68.7 | | 63.14 |
| 3 | 254 | 17.71 | 105.5 | | 64.48 |
| 4 | 277 | 36.09 | 197.7 | | 66.46 |
| 5 | 291 | 25.57 | 133.3 | | 67.69 |
| 6 | 300 | 27.78 | 140.5 | | 68.49 |
| 7 | 311 | 21.37 | 104.2 | | 69.40 |
| 8 | 326 | 31.53 | 146.5 | | 70.64 |
| 9 | 337 | 33.75 | 151.8 | | 71.49 |
| 10 | 385 | 156.15 | 615.2 | | 75.35 |
| 11 | 407 | 36.60 | 136.2 | | 77.01 |
| 12 | 447 | 86.30 | 292.8 | | 79.26 |
| 13 | 483 | 76.64 | 240.4 | | 81.35 |
| 14 | 509 | 69.19 | 205.8 | | 82.74 |
| 15 | 548 | 122.25 | 337.8 | | 84.51 |
| 16 | 1,369 | 1,458.99 | 1,614.7 | | 96.50 |
| 17 | 1,531 | 499.64 | 494.6 | | 97.58 |
| 18 | 1,862 | 346.24 | 281.8 | | 99.77 |
| 19 | 2,684 | 147.71 | 83.4 | | 103.04 |
| 20 | 2,902 | 110.51 | 57.7 | | 103.79 |
| 21 | 4,235 | 126.65 | 45.3 | | 105.72 |
| 22 | 4,942 | 576.93 | 176.9 | | 106.63 |
| 23 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 24 | 10,769 | 0.00 | 0.0 | | 113.43 |
| 25 | 13,396 | 0.00 | 0.0 | | 116.32 |


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...**... Peak table for sample 5 : Input 10' 6x**

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 15,049 | 0.00 | 0.0 | | 118.14 |

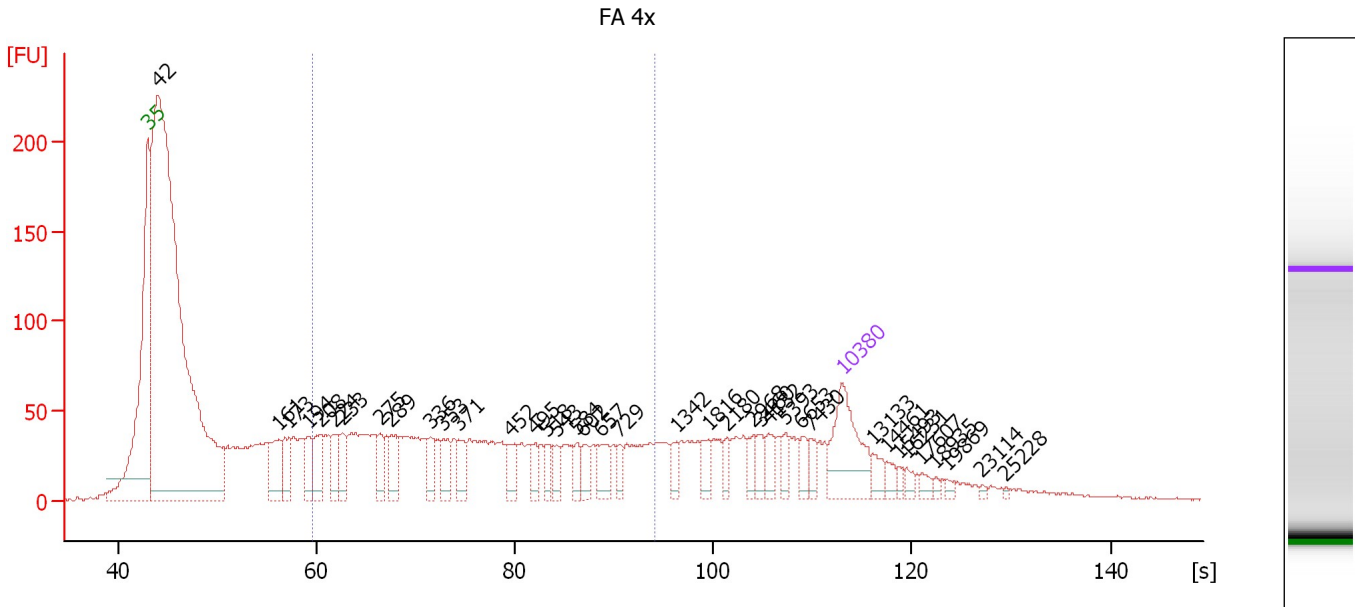
Region table for sample 5 : Input 10' 6x

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/ μ l] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------------|---|
| 200 | 562 | 1,000 | 2,148.8 | 12,207.0 | 41 | 38.6 | 3,498.74 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : FA 4x

Number of peaks found: 38 Corr. Area 1: 1,510.2
 Noise: 0.7

Peak table for sample 6 : FA 4x

| 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 | 1,719.49 | 62,537.7 | | 43.97 |
| 3 | 161 | 65.60 | 615.7 | | 56.16 |
| 4 | 173 | 40.96 | 358.0 | | 57.24 |
| 5 | 194 | 39.07 | 305.6 | | 59.08 |
| 6 | 208 | 46.21 | 337.3 | | 60.32 |
| 7 | 224 | 42.44 | 287.0 | | 61.79 |
| 8 | 233 | 34.39 | 224.1 | | 62.54 |
| 9 | 275 | 28.42 | 156.4 | | 66.33 |
| 10 | 289 | 33.46 | 175.6 | | 67.52 |
| 11 | 336 | 26.85 | 121.1 | | 71.42 |
| 12 | 353 | 31.92 | 137.1 | | 72.78 |
| 13 | 371 | 25.46 | 103.9 | | 74.29 |
| 14 | 452 | 28.30 | 95.0 | | 79.54 |
| 15 | 495 | 18.14 | 55.5 | | 82.03 |
| 16 | 518 | 17.50 | 51.2 | | 83.12 |
| 17 | 543 | 15.39 | 43.0 | | 84.25 |
| 18 | 584 | 15.82 | 41.0 | | 86.15 |
| 19 | 602 | 19.63 | 49.4 | | 86.91 |
| 20 | 657 | 26.60 | 61.4 | | 88.69 |
| 21 | 729 | 14.15 | 29.4 | | 90.48 |
| 22 | 1,342 | 13.57 | 15.3 | | 96.33 |
| 23 | 1,816 | 15.66 | 13.1 | | 99.47 |
| 24 | 2,180 | 11.08 | 7.7 | | 101.31 |
| 25 | 2,968 | 13.82 | 7.1 | | 104.01 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad


Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 6 : FA 4x

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 3,460 | 15.77 | 6.9 | | 104.72 |
| 27 | 4,132 | 16.67 | 6.1 | | 105.58 |
| 28 | 5,393 | 13.15 | 3.7 | | 107.21 |
| 29 | 6,653 | 14.89 | 3.4 | | 108.83 |
| 30 | 7,430 | 13.51 | 2.8 | | 109.75 |
| 31 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 32 | 13,133 | 0.00 | 0.0 | | 116.03 |
| 33 | 14,461 | 0.00 | 0.0 | | 117.49 |
| 34 | 15,493 | 0.00 | 0.0 | | 118.63 |
| 35 | 16,231 | 0.00 | 0.0 | | 119.44 |
| 36 | 17,607 | 0.00 | 0.0 | | 120.96 |
| 37 | 18,935 | 0.00 | 0.0 | | 122.42 |
| 38 | 19,869 | 0.00 | 0.0 | | 123.45 |
| 39 | 23,114 | 0.00 | 0.0 | | 127.02 |
| 40 | 25,228 | 0.00 | 0.0 | | 129.35 |

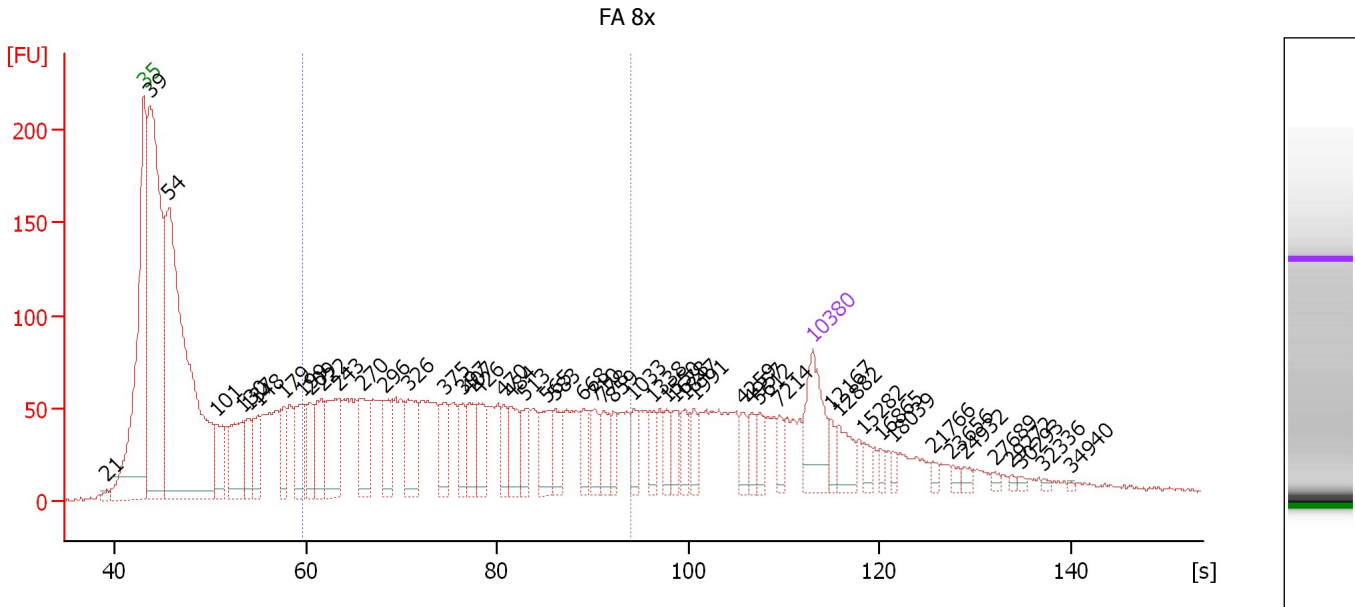
Region table for sample 6 : FA 4x

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|---|
| 200 | 440 | 1,000 | 1,510.2 | 4,476.4 | 33 | 43.7 | 1,021.26 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : FA 8x

Number of peaks found: 51 Corr. Area 1: 2,232.7
 Noise: 0.8

Peak table for sample 7 : FA 8x


| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 21 | 0.00 | 0.0 | | 39.12 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 39 | 883.53 | 34,127.0 | | 43.62 |
| 4 | 54 | 1,050.88 | 29,383.7 | | 45.64 |
| 5 | 101 | 81.30 | 1,217.6 | | 50.65 |
| 6 | 130 | 121.63 | 1,417.4 | | 53.29 |
| 7 | 137 | 65.12 | 721.4 | | 53.91 |
| 8 | 148 | 69.42 | 708.7 | | 54.98 |
| 9 | 179 | 60.22 | 510.3 | | 57.73 |
| 10 | 199 | 89.77 | 684.7 | | 59.53 |
| 11 | 209 | 66.57 | 483.2 | | 60.43 |
| 12 | 222 | 92.23 | 629.3 | | 61.61 |
| 13 | 243 | 126.24 | 787.2 | | 63.47 |
| 14 | 270 | 87.22 | 489.1 | | 65.88 |
| 15 | 296 | 70.09 | 359.3 | | 68.13 |
| 16 | 326 | 88.29 | 409.7 | | 70.66 |
| 17 | 375 | 58.94 | 238.4 | | 74.54 |
| 18 | 397 | 38.99 | 148.9 | | 76.34 |
| 19 | 407 | 49.43 | 183.8 | | 77.02 |
| 20 | 426 | 51.21 | 182.1 | | 78.08 |
| 21 | 470 | 33.16 | 106.9 | | 80.61 |
| 22 | 484 | 53.79 | 168.4 | | 81.40 |
| 23 | 513 | 37.57 | 110.9 | | 82.92 |
| 24 | 565 | 55.37 | 148.4 | | 85.28 |
| 25 | 583 | 37.45 | 97.4 | | 86.07 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad


Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : FA 8x

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|--|---------------|-------------------|--------------|----------------------------|
| 26 | 668 | 30.86 | 70.0 | | 89.05 |
| 27 | 710 | 32.32 | 69.0 | | 90.23 |
| 28 | 778 | 36.10 | 70.3 | | 91.13 |
| 29 | 859 | 23.56 | 41.6 | | 92.20 |
| 30 | 1,033 | 25.52 | 37.4 | | 94.28 |
| 31 | 1,338 | 20.64 | 23.4 | | 96.30 |
| 32 | 1,550 | 19.84 | 19.4 | | 97.71 |
| 33 | 1,678 | 23.90 | 21.6 | | 98.55 |
| 34 | 1,847 | 24.53 | 20.1 | | 99.67 |
| 35 | 1,991 | 20.96 | 15.9 | | 100.63 |
| 36 | 4,259 | 20.87 | 7.4 | | 105.75 |
| 37 | 4,957 | 18.14 | 5.5 | | 106.65 |
| 38 | 5,612 | 19.25 | 5.2 | | 107.49 |
| 39 | 7,214 | 17.06 | 3.6 | | 109.51 |
| 40 |  10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 41 | 12,167 | 0.00 | 0.0 | | 114.97 |
| 42 | 12,882 | 0.00 | 0.0 | | 115.76 |
| 43 | 15,282 | 0.00 | 0.0 | | 118.40 |
| 44 | 16,865 | 0.00 | 0.0 | | 120.14 |
| 45 | 18,039 | 0.00 | 0.0 | | 121.43 |
| 46 | 21,766 | 0.00 | 0.0 | | 125.54 |
| 47 | 23,656 | 0.00 | 0.0 | | 127.62 |
| 48 | 24,932 | 0.00 | 0.0 | | 129.02 |
| 49 | 27,689 | 0.00 | 0.0 | | 132.06 |
| 50 | 29,272 | 0.00 | 0.0 | | 133.80 |
| 51 | 30,293 | 0.00 | 0.0 | | 134.93 |
| 52 | 32,336 | 0.00 | 0.0 | | 137.18 |
| 53 | 34,940 | 0.00 | 0.0 | | 140.04 |

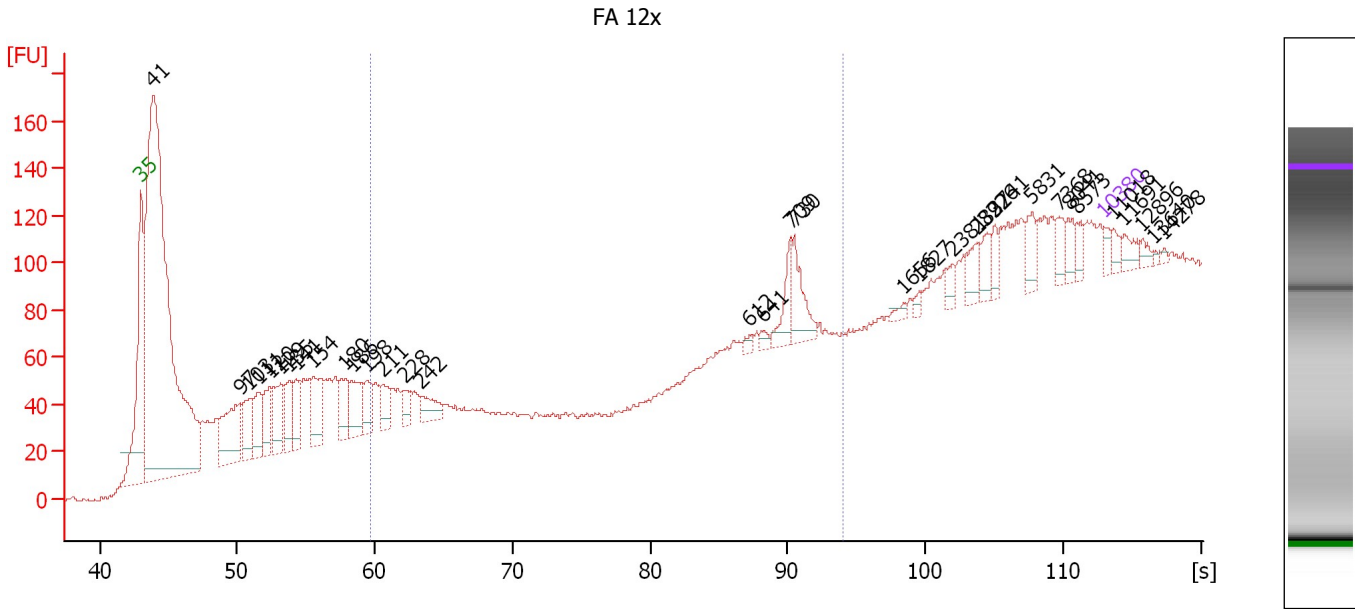
Region table for sample 7 : FA 8x

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|---|
| 200 | 441 | 1,000 | 2,232.7 | 7,894.7 | 39 | 43.1 | 1,812.32 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : FA 12x

Number of peaks found: 34 Corr. Area 1: 333.1
 Noise: 0.8

Peak table for sample 8 : FA 12x

| 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 | 14,282.46 | 526,100.3 | | 43.90 |
| 3 | 97 | 1,337.92 | 20,898.5 | | 50.22 |
| 4 | 103 | 758.70 | 11,126.7 | | 50.84 |
| 5 | 111 | 593.47 | 8,133.5 | | 51.51 |
| 6 | 120 | 559.99 | 7,075.1 | | 52.36 |
| 7 | 129 | 705.33 | 8,292.8 | | 53.18 |
| 8 | 135 | 594.03 | 6,654.3 | | 53.77 |
| 9 | 141 | 473.81 | 5,083.5 | | 54.32 |
| 10 | 154 | 836.39 | 8,204.0 | | 55.53 |
| 11 | 180 | 516.27 | 4,338.7 | | 57.87 |
| 12 | 186 | 610.36 | 4,975.0 | | 58.37 |
| 13 | 198 | 397.18 | 3,040.3 | | 59.47 |
| 14 | 211 | 344.66 | 2,479.1 | | 60.60 |
| 15 | 228 | 248.56 | 1,650.1 | | 62.16 |
| 16 | 242 | 305.88 | 1,912.7 | | 63.41 |
| 17 | 612 | 55.02 | 136.2 | | 87.25 |
| 18 | 641 | 61.17 | 144.6 | | 88.18 |
| 19 | 709 | 334.14 | 714.2 | | 90.21 |
| 20 | 730 | 472.61 | 981.5 | | 90.49 |
| 21 | 1,656 | 57.67 | 52.8 | | 98.41 |
| 22 | 1,827 | 50.61 | 42.0 | | 99.54 |
| 23 | 2,381 | 106.03 | 67.5 | | 102.00 |
| 24 | 2,892 | 197.34 | 103.4 | | 103.75 |
| 25 | 3,226 | 167.39 | 78.6 | | 104.42 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad


Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 8 : FA 12x

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 3,741 | 117.75 | 47.7 | | 105.08 |
| 27 | 5,831 | 206.62 | 53.7 | | 107.77 |
| 28 | 7,368 | 150.37 | 30.9 | | 109.68 |
| 29 | 8,041 | 137.91 | 26.0 | | 110.42 |
| 30 | 8,573 | 104.68 | 18.5 | | 111.01 |
| 31 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 32 | 11,018 | 0.00 | 0.0 | | 113.70 |
| 33 | 11,691 | 0.00 | 0.0 | | 114.44 |
| 34 | 12,896 | 0.00 | 0.0 | | 115.77 |
| 35 | 13,640 | 0.00 | 0.0 | | 116.59 |
| 36 | 14,278 | 0.00 | 0.0 | | 117.29 |

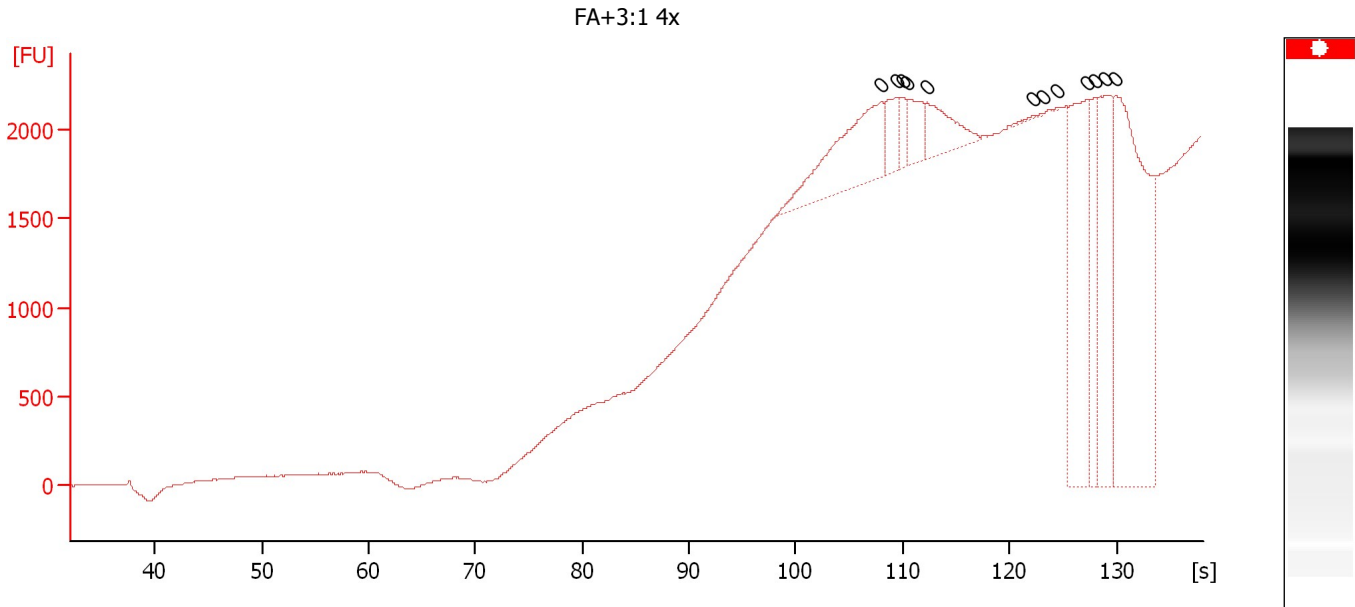
Region table for sample 8 : FA 12x

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|---|
| 200 | 491 | 1,000 | 333.1 | 17,281.5 | 13 | 50.2 | 3,495.29 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : FA+3:1 4x

Number of peaks found: 0 Noise: 3.5

Peak table for sample 9 : FA+3:1 4x

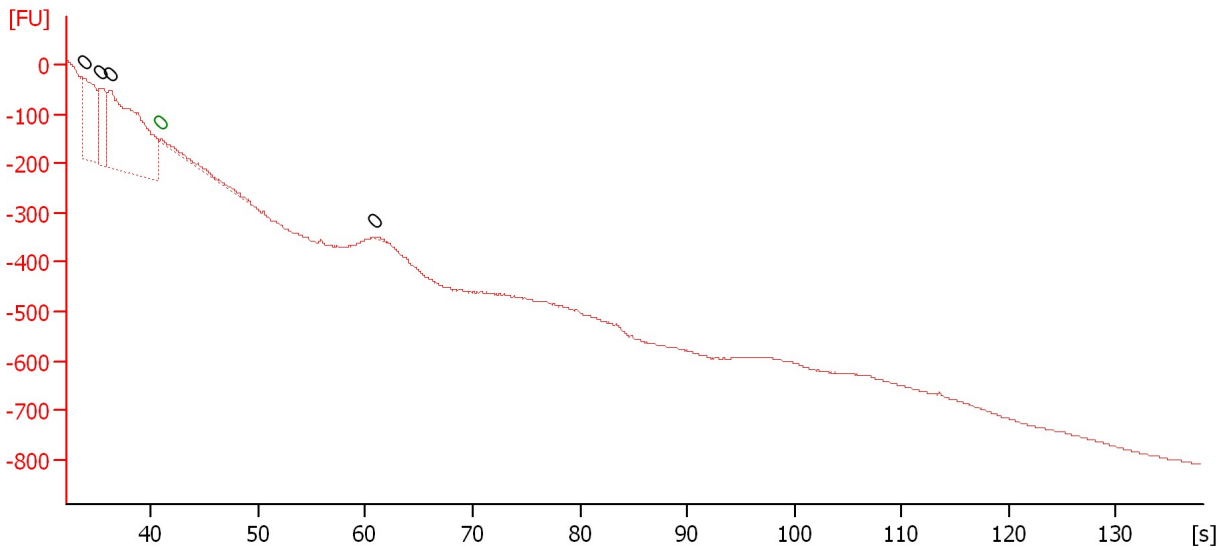
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 0 | 0.00 | 0.0 | | 108.05 |
| 2 | 0 | 0.00 | 0.0 | | 109.40 |
| 3 | 0 | 0.00 | 0.0 | | 109.95 |
| 4 | 0 | 0.00 | 0.0 | | 110.45 |
| 5 | 0 | 0.00 | 0.0 | | 112.20 |
| 6 | 0 | 0.00 | 0.0 | | 122.15 |
| 7 | 0 | 0.00 | 0.0 | | 123.15 |
| 8 | 0 | 0.00 | 0.0 | | 124.45 |
| 9 | 0 | 0.00 | 0.0 | | 127.30 |
| 10 | 0 | 0.00 | 0.0 | | 128.05 |
| 11 | 0 | 0.00 | 0.0 | | 128.90 |
| 12 | 0 | 0.00 | 0.0 | | 129.95 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...

FA+3:1 8x



Overall Results for sample 10 : FA+3:1 8x

Number of peaks found: 4 Noise: 1.8

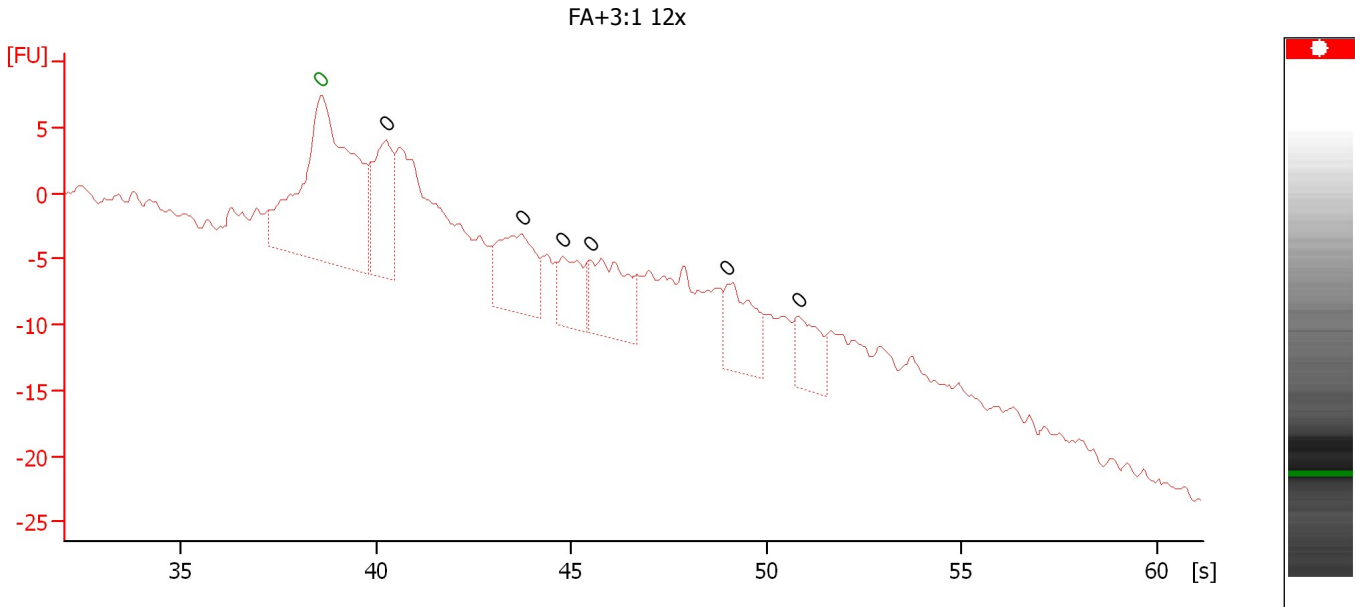
Peak table for sample 10 : FA+3:1 8x

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 0 | 0.00 | 0.0 | | 33.70 |
| 2 | 0 | 0.00 | 0.0 | | 35.20 |
| 3 | 0 | 0.00 | 0.0 | | 36.25 |
| 4 | 0 | 0.00 | 0.0 | Lower Marker | 40.95 |
| 5 | 0 | 0.00 | 0.0 | | 60.90 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : FA+3:1 12x

End Analysis Time Range [s] : 61.15

Overall Results for sample 11 : FA+3:1 12x

Number of peaks found: 6 Noise: 0.4

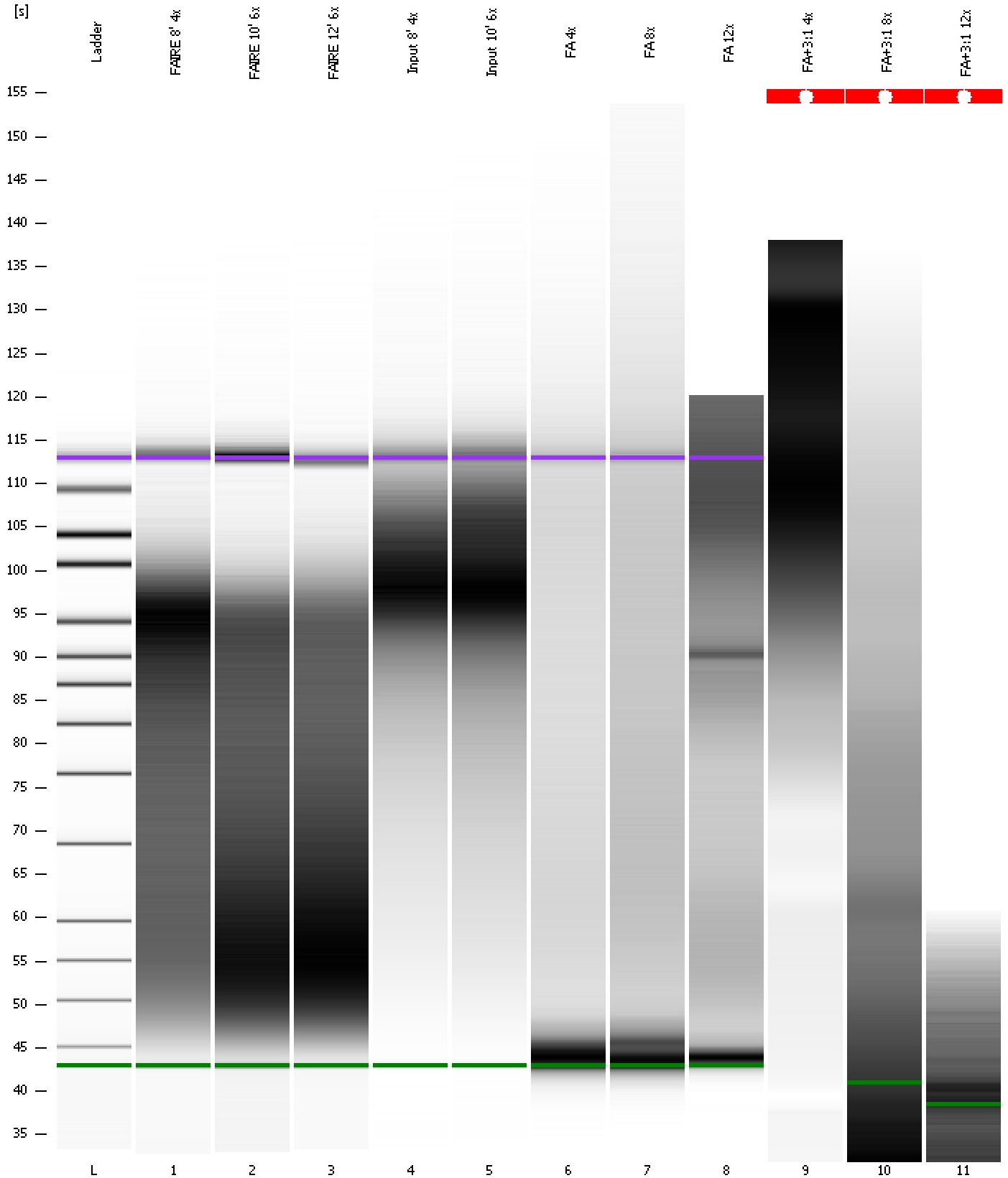
Peak table for sample 11 : FA+3:1 12x

| Pea k | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|----------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 0 | 0.00 | 0.0 | Lower Marker | 38.60 |
| 2 | 0 | 0.00 | 0.0 | | 40.25 |
| 3 | 0 | 0.00 | 0.0 | | 43.75 |
| 4 | 0 | 0.00 | 0.0 | | 44.80 |
| 5 | 0 | 0.00 | 0.0 | | 45.50 |
| 6 | 0 | 0.00 | 0.0 | | 49.00 |
| 7 | 0 | 0.00 | 0.0 | | 50.85 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
Modified: 3/13/2015 11:08:07 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad

Created: 3/13/2015 10:28:17 AM
 Modified: 3/13/2015 11:08:07 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run aborted on port 1 | | Instrument | Run | | 3/13/2015 1:08:04 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-13\2015-03-13_001.xad) | | Instrument | Run | | 3/13/2015 12:28:23 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 3/13/2015 12:28:23 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 3/13/2015 12:28:23 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 3/13/2015 12:28:23 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 3/13/2015 12:28:23 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 3/13/2015 12:28:23 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 3/13/2015 12:28:23 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |