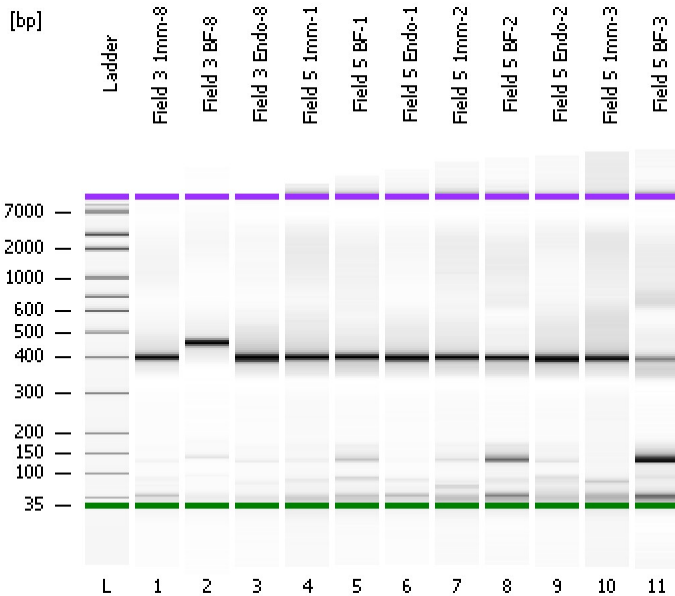


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
Modified: 10/18/2013 4:02:14 PM

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

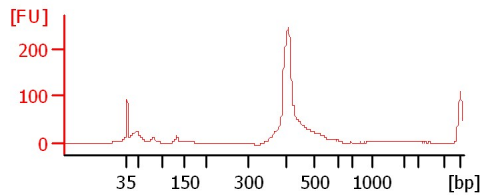
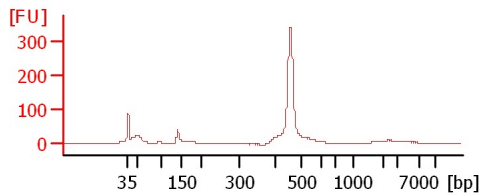
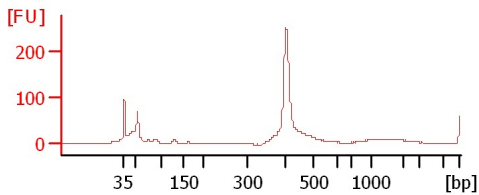
Chip Information:

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

Field 3 1mm-8

Field 3 BF-8

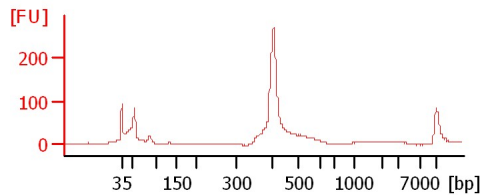
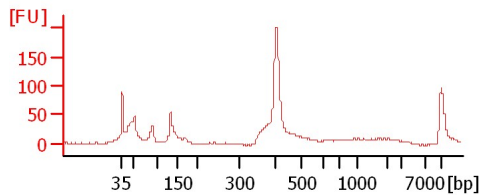
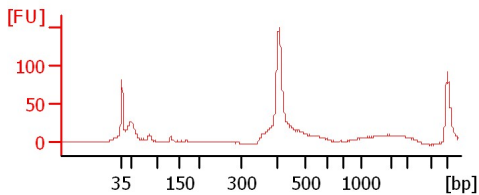
Field 3 Endo-8



Field 5 1mm-1

Field 5 BF-1

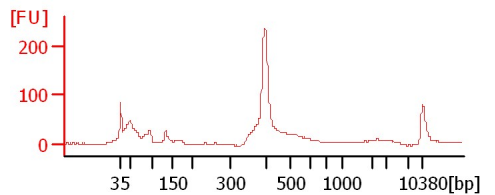
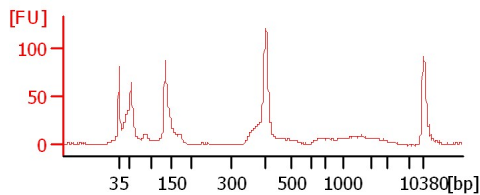
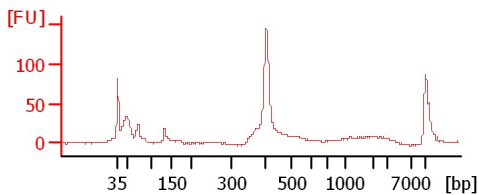
Field 5 Endo-1



Field 5 1mm-2

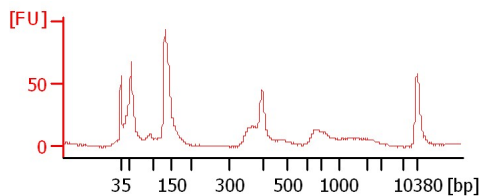
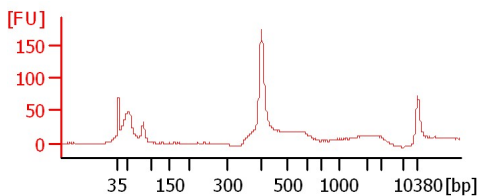
Field 5 BF-2

Field 5 Endo-2



Field 5 1mm-3

Field 5 BF-3



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|----------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Field 3 1mm-8 | | <input type="checkbox"/> | ✓ | | | |
| Field 3 BF-8 | | <input type="checkbox"/> | ✓ | | | |
| Field 3 Endo-8 | | <input type="checkbox"/> | ✓ | | | |
| Field 5 1mm-1 | | <input type="checkbox"/> | ✓ | | | |
| Field 5 BF-1 | | <input type="checkbox"/> | ✓ | | | |
| Field 5 Endo-1 | | <input type="checkbox"/> | ✓ | | | |
| Field 5 1mm-2 | | <input type="checkbox"/> | ✓ | | | |
| Field 5 BF-2 | | <input type="checkbox"/> | ✓ | | | |
| Field 5 Endo-2 | | <input type="checkbox"/> | ✓ | | | |
| Field 5 1mm-3 | | <input type="checkbox"/> | ✓ | | | |
| Field 5 BF-3 | | <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\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
Modified: 10/18/2013 4:02:14 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

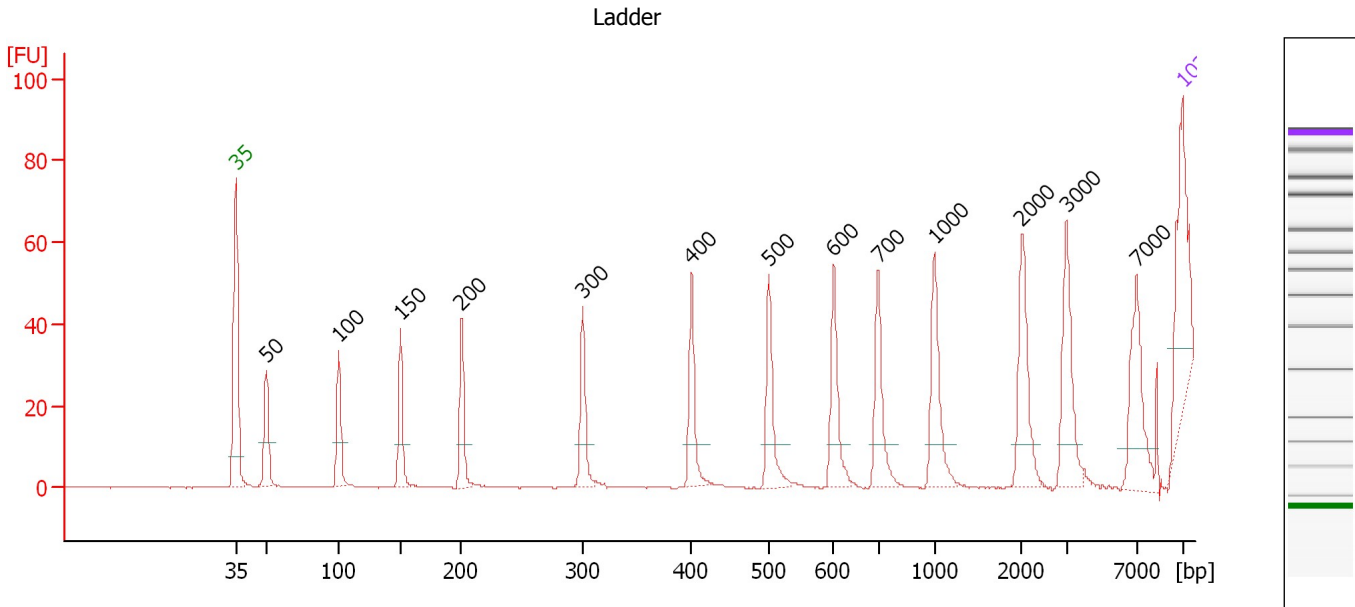
Ladder

| 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:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

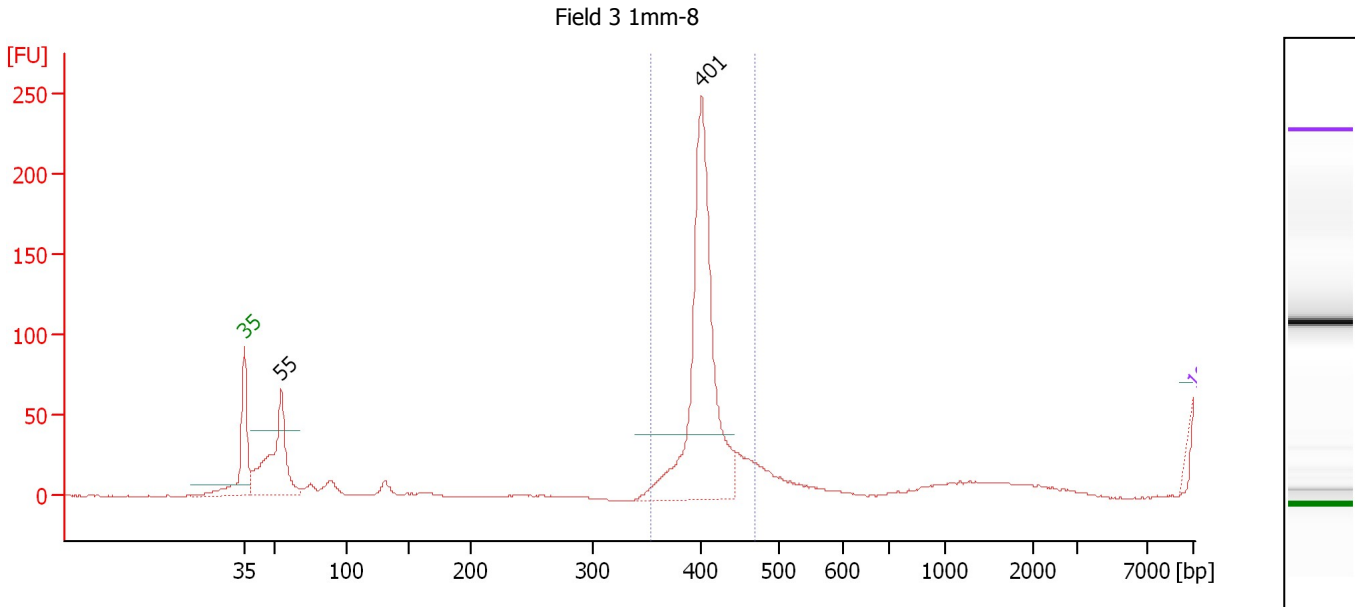
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : Field 3 1mm-8

Height Threshold [FU] : 40

Overall Results for sample 1 : Field 3 1mm-8

Number of peaks found: 2 Corr. Area 1: 583.3
 Noise: 0.2

Peak table for sample 1 : Field 3 1mm-8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|------------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 55 | 517,641,856.00 | 14,340,211,712.0 | |
| 3 | 401 | 1,071,391,616.00 | 4,050,549,248.0 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

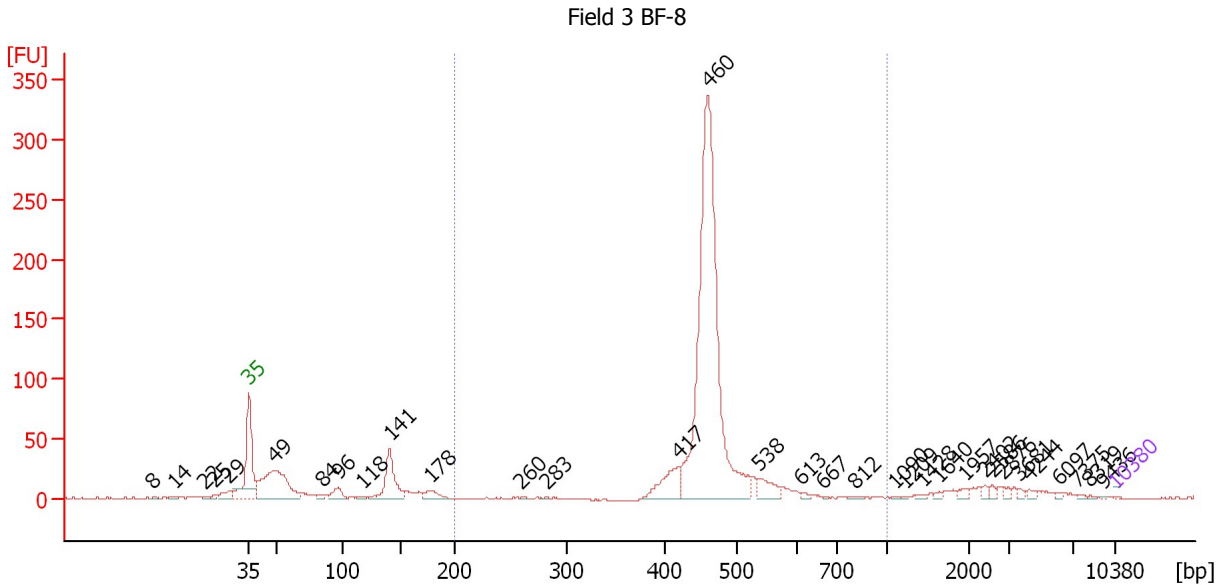
Region table for sample 1 : Field 3 1mm-8

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|-----------------|------------|------------|-----------------------------|-------|
| 355 | 470 | 407 | 3,858,500,864. | 1,034,445,440.0 | 583.3 | 67 | 4.8 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...




Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad


Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : Field 3 BF-8

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|------|--|---------------|-------------------|--------------|
| 23 | 1,428 | 667.31 | 708.1 | |
| 24 | 1,640 | 875.32 | 808.9 | |
| 25 | 1,957 | 1,887.33 | 1,460.9 | |
| 26 | 2,402 | 1,708.93 | 1,077.9 | |
| 27 | 2,586 | 1,545.18 | 905.2 | |
| 28 | 2,876 | 1,579.62 | 832.2 | |
| 29 | 3,681 | 1,081.91 | 445.3 | |
| 30 | 4,244 | 1,500.37 | 535.7 | |
| 31 | 6,097 | 620.24 | 154.1 | |
| 32 | 7,375 | 440.75 | 90.6 | |
| 33 | 8,319 | 275.18 | 50.1 | |
| 34 | 9,436 | 157.78 | 25.3 | |
| 35 |  10,380 | 75.00 | 10.9 | Upper Marker |

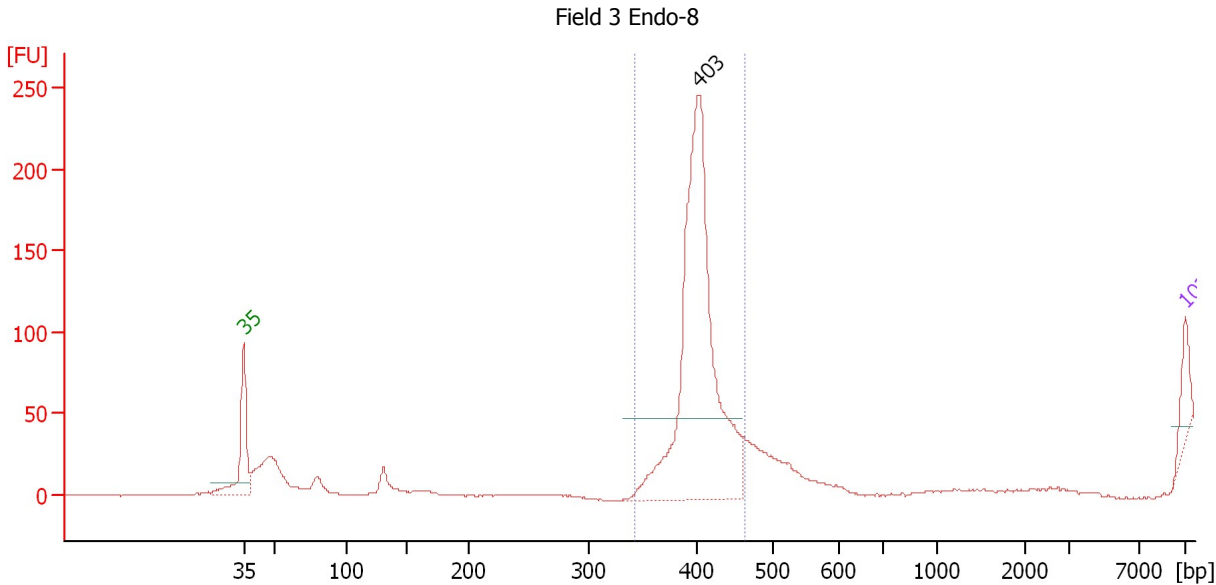
Region table for sample 2 : Field 3 BF-8

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|---|
| 200 | 1,000 | 466 | 1,021,305.0 | 311,824.78 | 835.7 | 71 | 8.2 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : Field 3 Endo-8

Height Threshold [FU] : 50

Overall Results for sample 3 : Field 3 Endo-8

Number of peaks found: 1 Corr. Area 1: 423.8
 Noise: 0.4

Peak table for sample 3 : Field 3 Endo-8

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 403 | 1,778.51 | 6,686.6 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

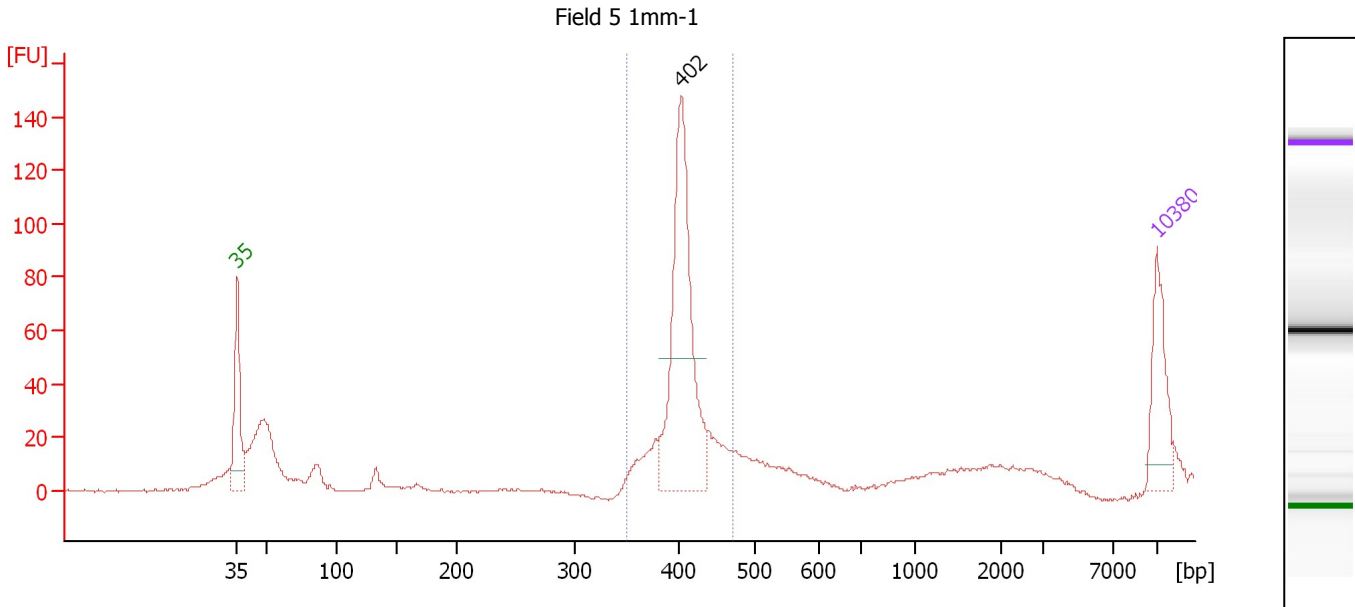
Region table for sample 3 : Field 3 Endo-8

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 342 | 463 | 402 | 3,283.6 | 869.72 | 423.8 | 96 | 2.2 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : Field 5 1mm-1

Height Threshold [FU] : 50

Overall Results for sample 4 : Field 5 1mm-1

Number of peaks found: 1 Corr. Area 1: 403.0
 Noise: 0.5

Peak table for sample 4 : Field 5 1mm-1

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 402 | 374.65 | 1,411.5 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

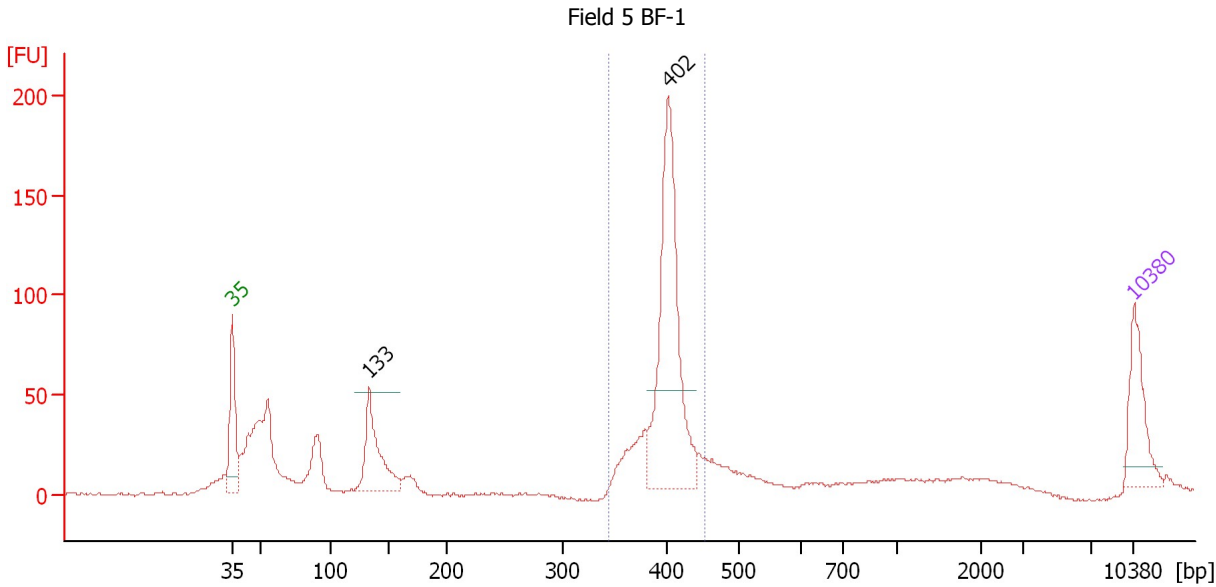
Region table for sample 4 : Field 5 1mm-1

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 349 | 471 | 406 | 1,691.9 | 452.46 | 403.0 | 55 | 5.4 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : Field 5 BF-1

Height Threshold [FU] : 50

Overall Results for sample 5 : Field 5 BF-1

Number of peaks found: 2 Corr. Area 1: 527.8
 Noise: 0.7

Peak table for sample 5 : Field 5 BF-1

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 133 | 173.51 | 1,982.0 | |
| 3 | 402 | 439.67 | 1,655.2 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

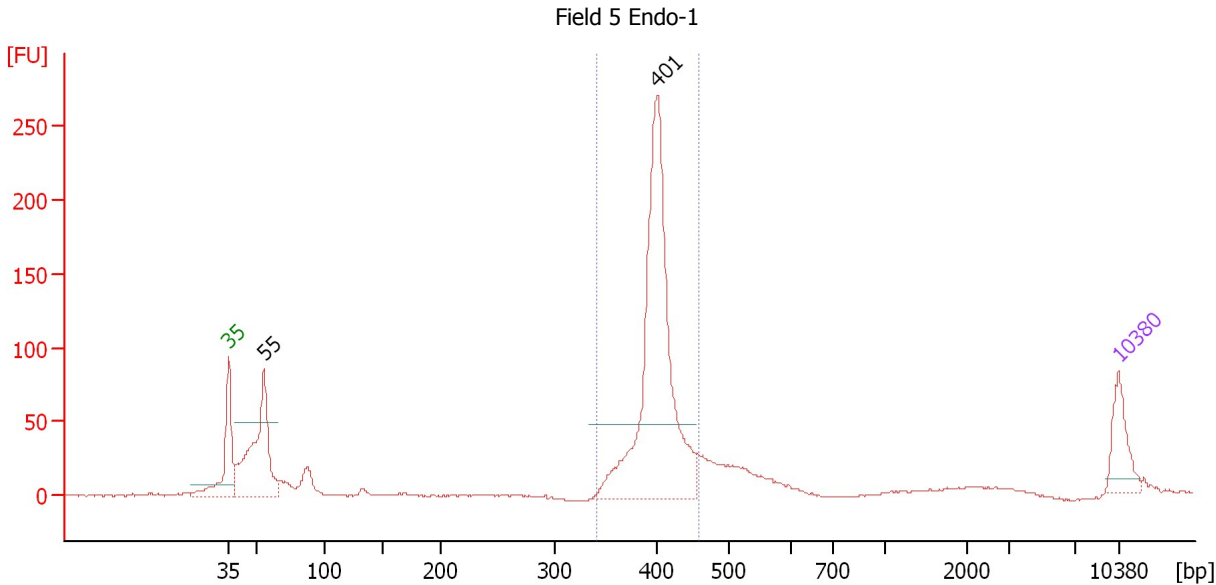
Region table for sample 5 : Field 5 BF-1

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 344 | 453 | 401 | 2,034.5 | 537.57 | 527.8 | 46 | 4.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : Field 5 Endo-1

Height Threshold [FU] : 50

Overall Results for sample 6 : Field 5 Endo-1

Number of peaks found: 2 Corr. Area 1: 782.0
 Noise: 0.5

Peak table for sample 6 : Field 5 Endo-1

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 55 | 447.87 | 12,371.9 | |
| 3 | 401 | 914.57 | 3,457.9 | |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker |

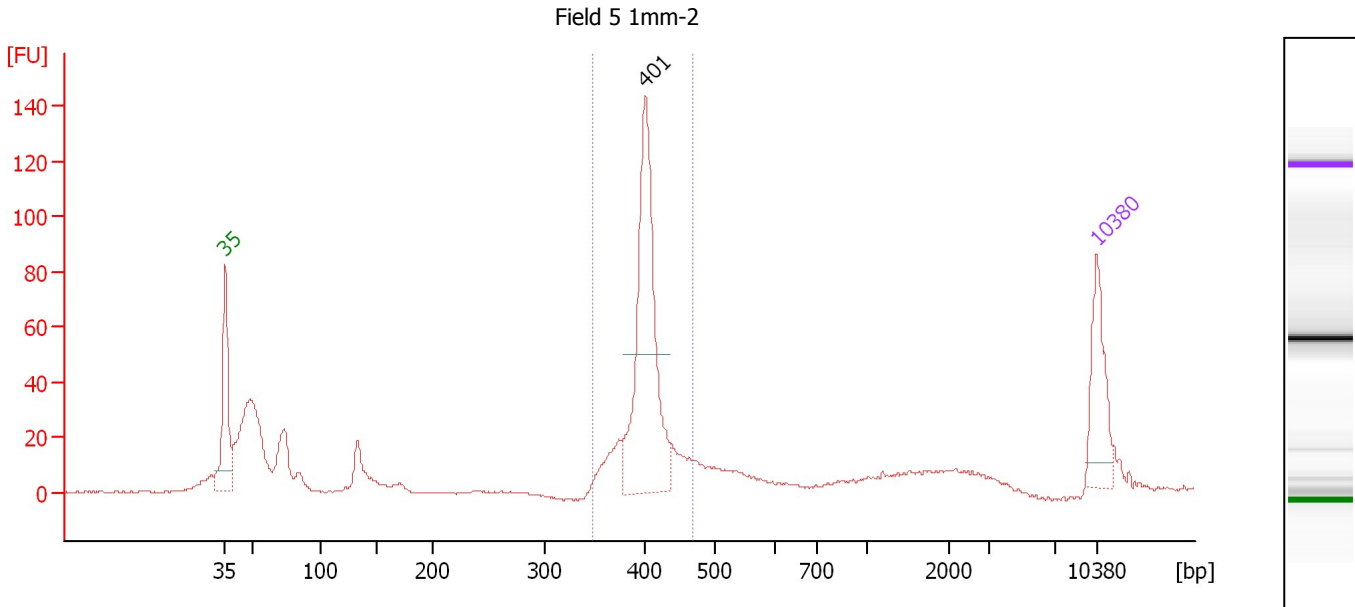
Region table for sample 6 : Field 5 Endo-1

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 340 | 457 | 402 | 3,329.8 | 881.37 | 782.0 | 60 | 4.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : Field 5 1mm-2

Height Threshold [FU] : 50

Overall Results for sample 7 : Field 5 1mm-2

Number of peaks found: 1 Corr. Area 1: 377.1
 Noise: 0.5

Peak table for sample 7 : Field 5 1mm-2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 401 | 356.27 | 1,347.4 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

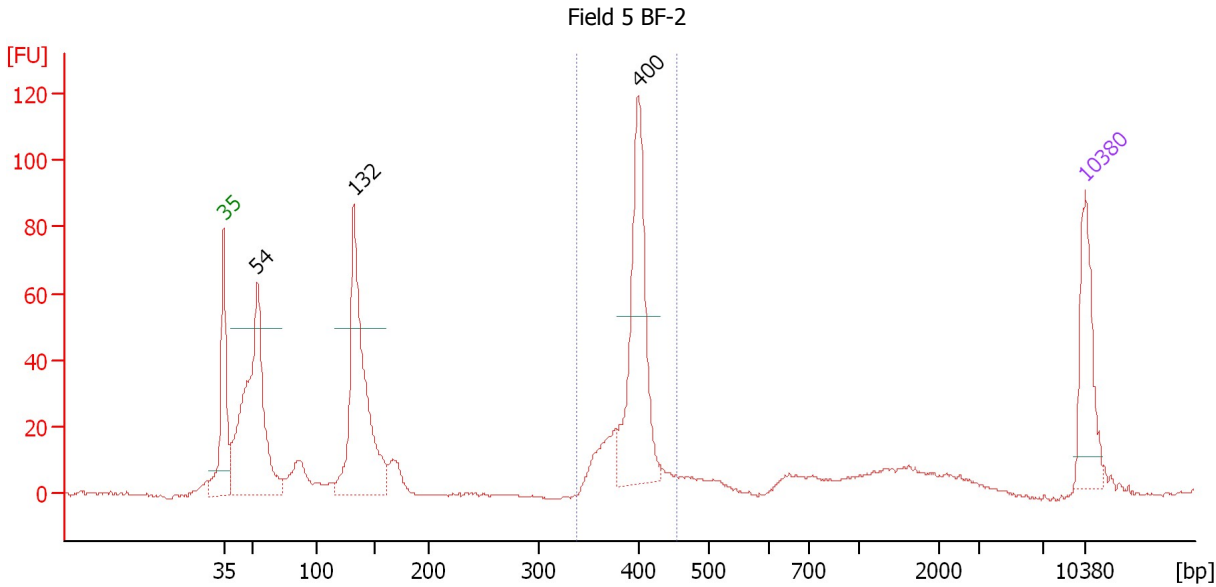
Region table for sample 7 : Field 5 1mm-2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 348 | 468 | 403 | 1,633.6 | 434.01 | 377.1 | 45 | 5.3 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : Field 5 BF-2

Height Threshold [FU] : 50

Overall Results for sample 8 : Field 5 BF-2

Number of peaks found: 3 Corr. Area 1: 291.8
 Noise: 0.5

Peak table for sample 8 : Field 5 BF-2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 54 | 408.46 | 11,358.8 | |
| 3 | 132 | 360.61 | 4,128.9 | |
| 4 | 400 | 244.75 | 927.7 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

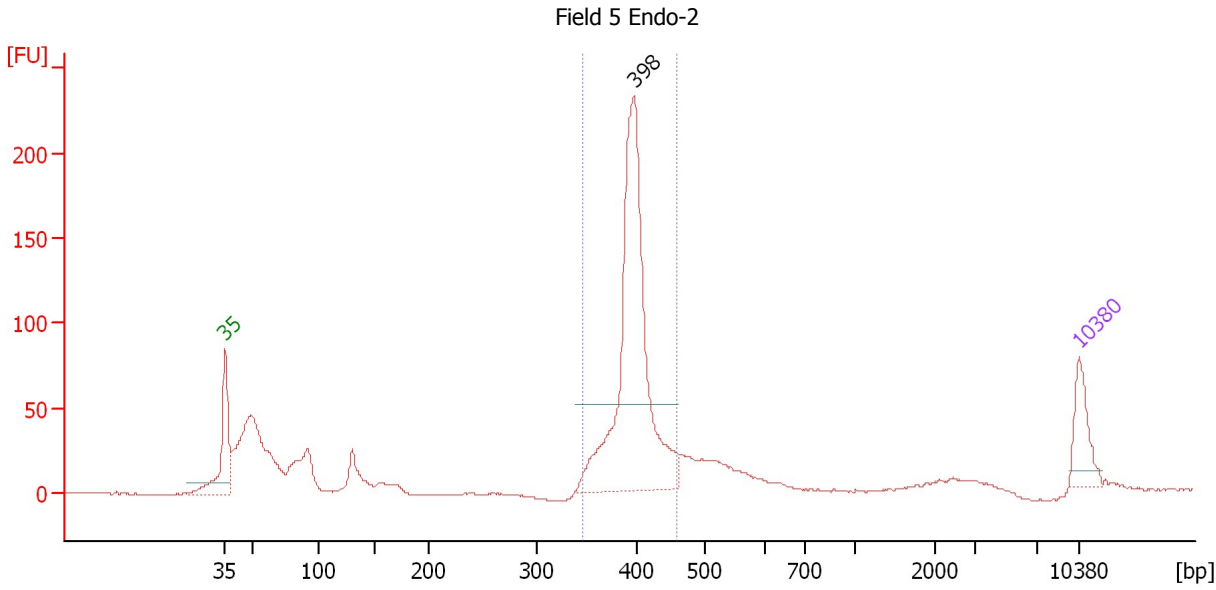
Region table for sample 8 : Field 5 BF-2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 339 | 455 | 396 | 1,284.2 | 335.21 | 291.8 | 30 | 4.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : Field 5 Endo-2

Height Threshold [FU] : 50

Overall Results for sample 9 : Field 5 Endo-2

Number of peaks found: 1 Corr. Area 1: 716.5
 Noise: 0.4

Peak table for sample 9 : Field 5 Endo-2

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 398 | 867.55 | 3,303.0 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

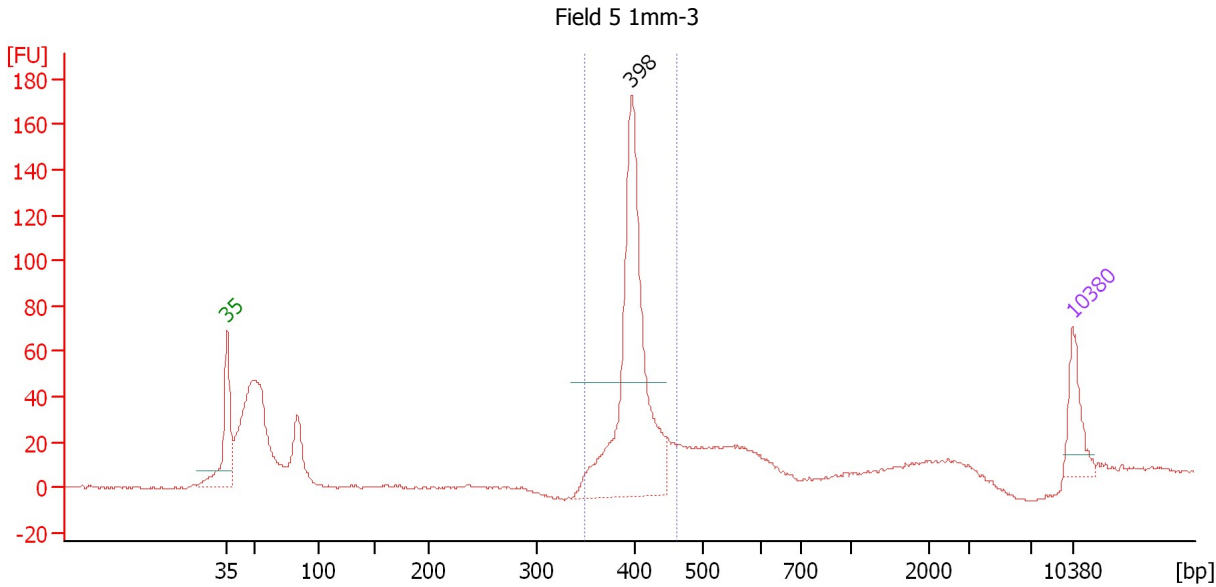
Region table for sample 9 : Field 5 Endo-2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 346 | 460 | 399 | 3,318.4 | 871.35 | 716.5 | 53 | 5.1 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : Field 5 1mm-3

Height Threshold [FU] : 50

Overall Results for sample 10 : Field 5 1mm-3

Number of peaks found: 1 Corr. Area 1: 424.6
 Noise: 0.5

Peak table for sample 10 : Field 5 1mm-3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 398 | 752.94 | 2,868.0 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

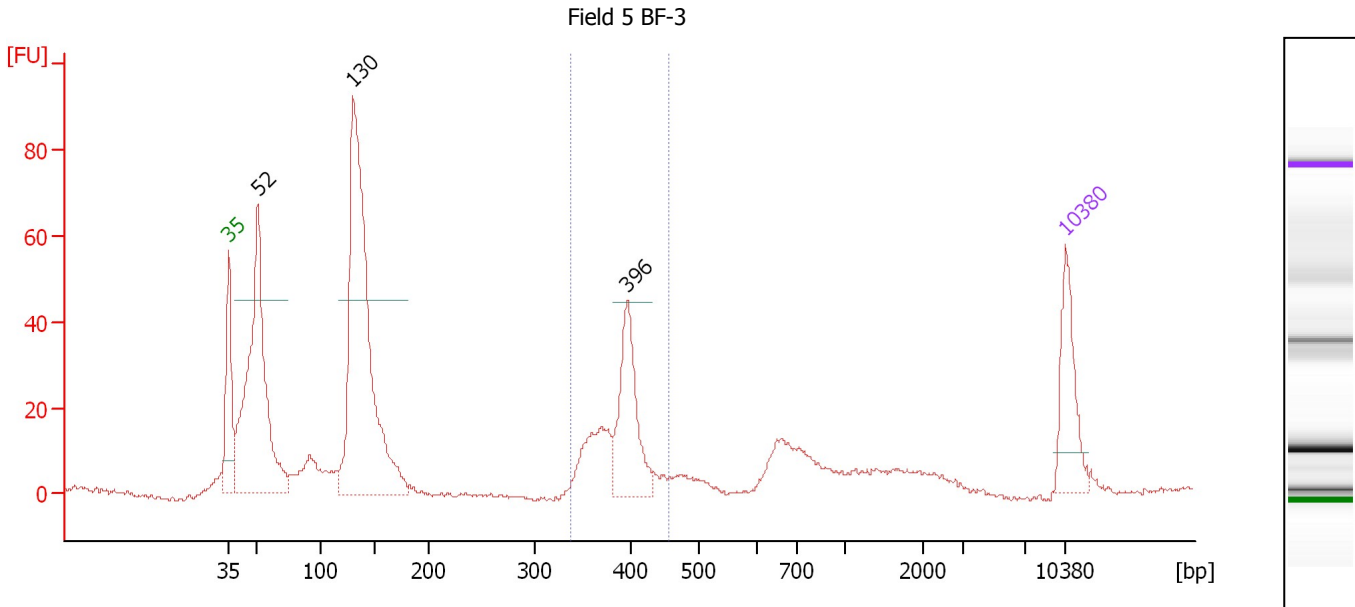
Region table for sample 10 : Field 5 1mm-3

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 350 | 463 | 403 | 2,490.8 | 661.72 | 424.6 | 46 | 4.9 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
 Modified: 10/18/2013 4:02:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : Field 5 BF-3

Height Threshold [FU] : 45

Overall Results for sample 11 : Field 5 BF-3

Number of peaks found: 3 Corr. Area 1: 139.4
 Noise: 0.4

Peak table for sample 11 : Field 5 BF-3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 52 | 533.48 | 15,568.3 | |
| 3 | 130 | 722.21 | 8,389.8 | |
| 4 | 396 | 155.73 | 595.6 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |

Region table for sample 11 : Field 5 BF-3

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 336 | 456 | 388 | 874.8 | 223.51 | 139.4 | 18 | 5.6 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-18\2013-10-18_006.xad

Created: 10/18/2013 3:09:18 PM
Modified: 10/18/2013 4:02:14 PM

Gel Image

