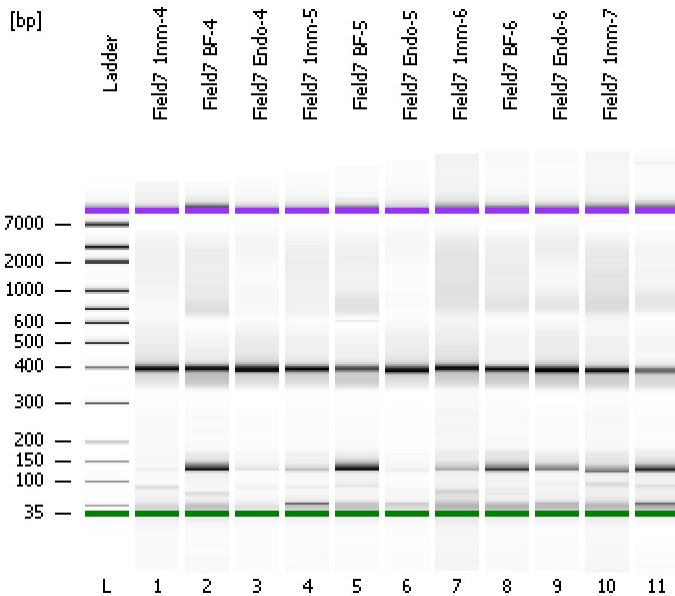


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
Modified: 10/29/2013 4:37:56 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

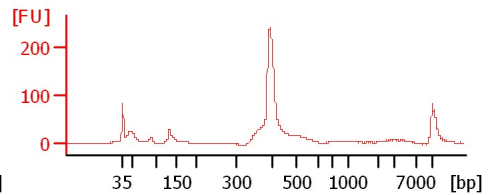
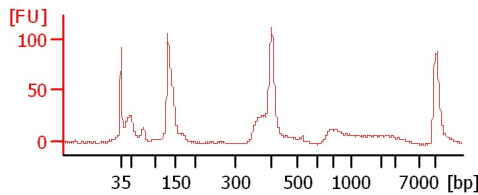
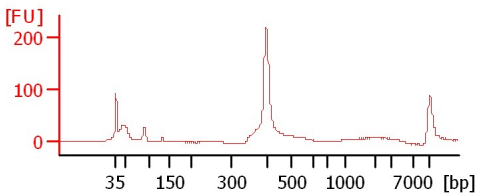
Chip Information:

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

**Field7 1mm-4**

**Field7 BF-4**

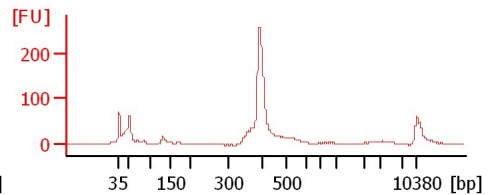
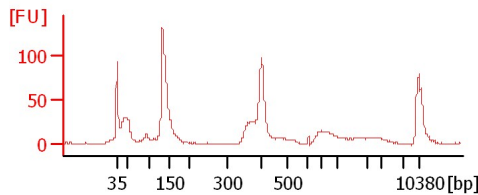
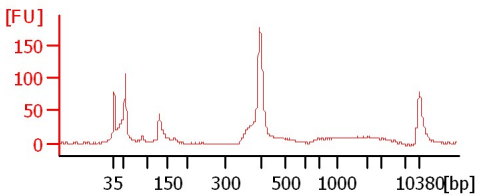
**Field7 Endo-4**



**Field7 1mm-5**

**Field7 BF-5**

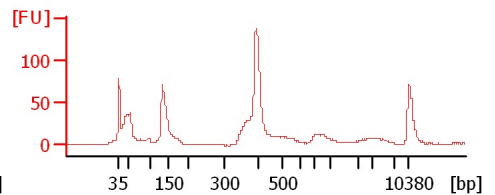
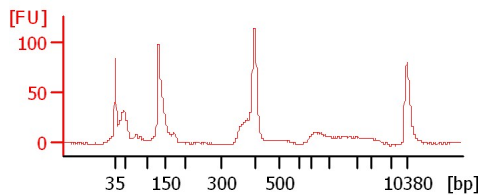
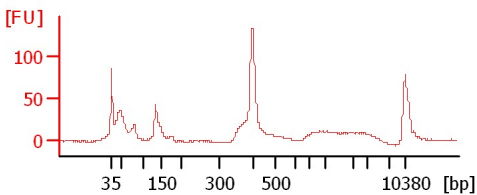
**Field7 Endo-5**



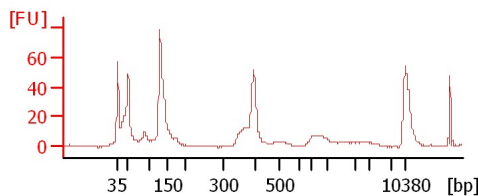
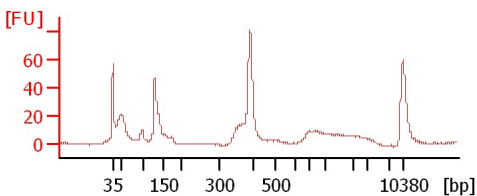
**Field7 1mm-6**

**Field7 BF-6**

**Field7 Endo-6**



**Field7 1mm-7**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
Modified: 10/29/2013 4:37:56 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Field7 1mm-4		<input type="checkbox"/>	✓			
Field7 BF-4		<input type="checkbox"/>	✓			
Field7 Endo-4		<input type="checkbox"/>	✓			
Field7 1mm-5		<input type="checkbox"/>	✓			
Field7 BF-5		<input type="checkbox"/>	✓			
Field7 Endo-5		<input type="checkbox"/>	✓			
Field7 1mm-6		<input type="checkbox"/>	✓			
Field7 BF-6		<input type="checkbox"/>	✓			
Field7 Endo-6		<input type="checkbox"/>	✓			
Field7 1mm-7		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			
<b>Chip Lot #</b>				<b>Reagent Kit Lot #</b>		

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
Modified: 10/29/2013 4:37:56 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

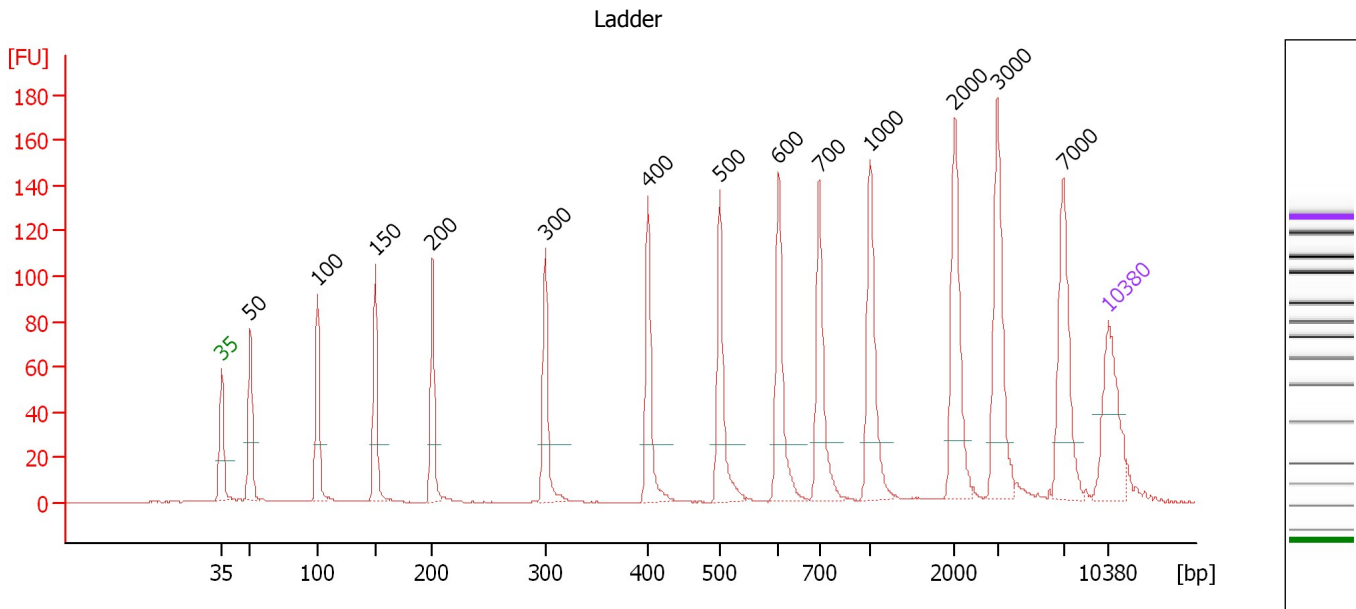
**Ladder**

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:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

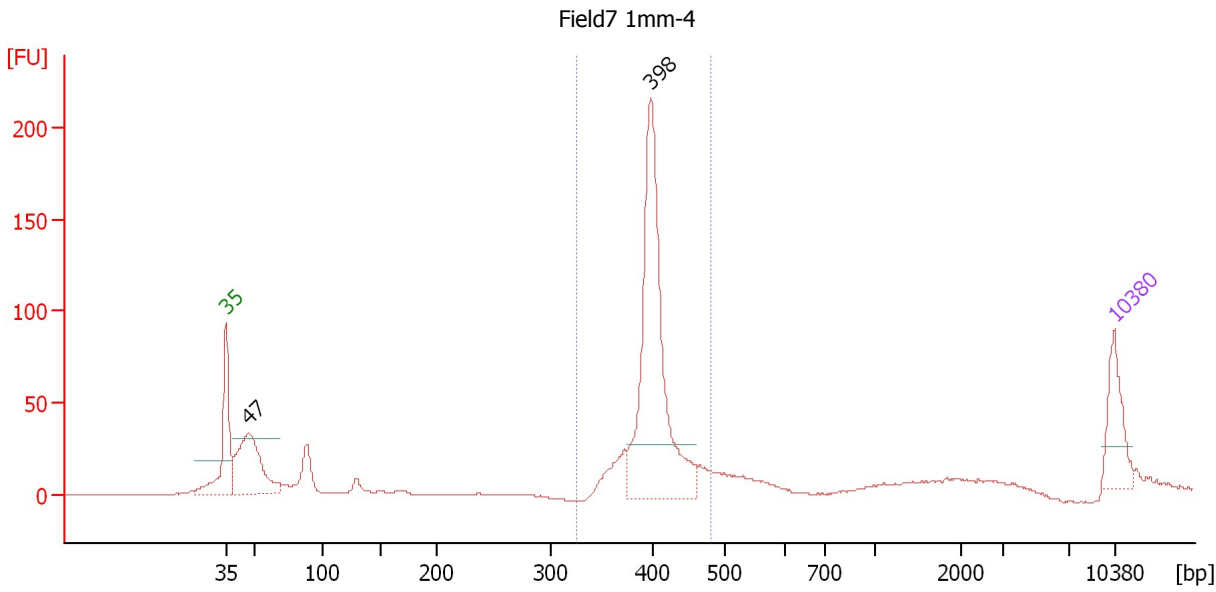
**Peak table for Ladder**

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\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : Field7 1mm-4**

Height Threshold [FU] : 30

**Overall Results for sample 1 : Field7 1mm-4**

Number of peaks found: 2                      Corr. Area 1: 566.2  
 Noise: 0.2

**Peak table for sample 1 : Field7 1mm-4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	275.50	8,948.9	
3	398	580.68	2,212.3	
4	10,380	75.00	10.9	Upper Marker

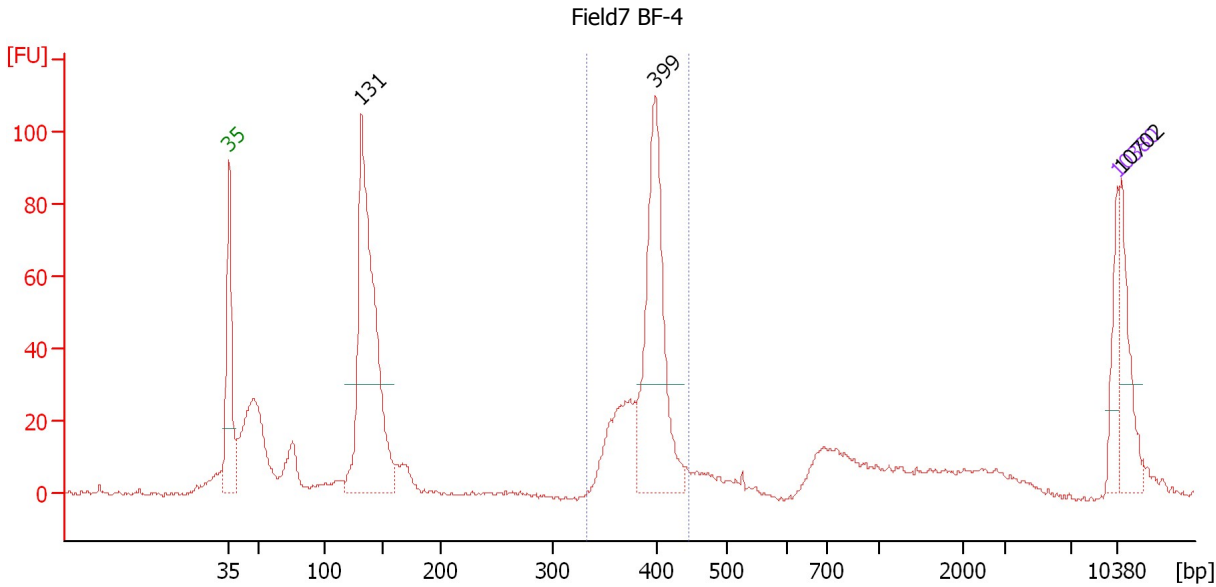
**Region table for sample 1 : Field7 1mm-4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
326	480	402	2,310.7	611.86	566.2	62	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : Field7 BF-4**

Height Threshold [FU] : 30

**Overall Results for sample 2 : Field7 BF-4**

Number of peaks found: 3                      Corr. Area 1: 333.6  
 Noise: 0.6

**Peak table for sample 2 : Field7 BF-4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	131	980.44	11,310.1	
3	399	546.39	2,074.9	
4	10,380	75.00	10.9	Upper Marker
5	10,702	0.00	0.0	

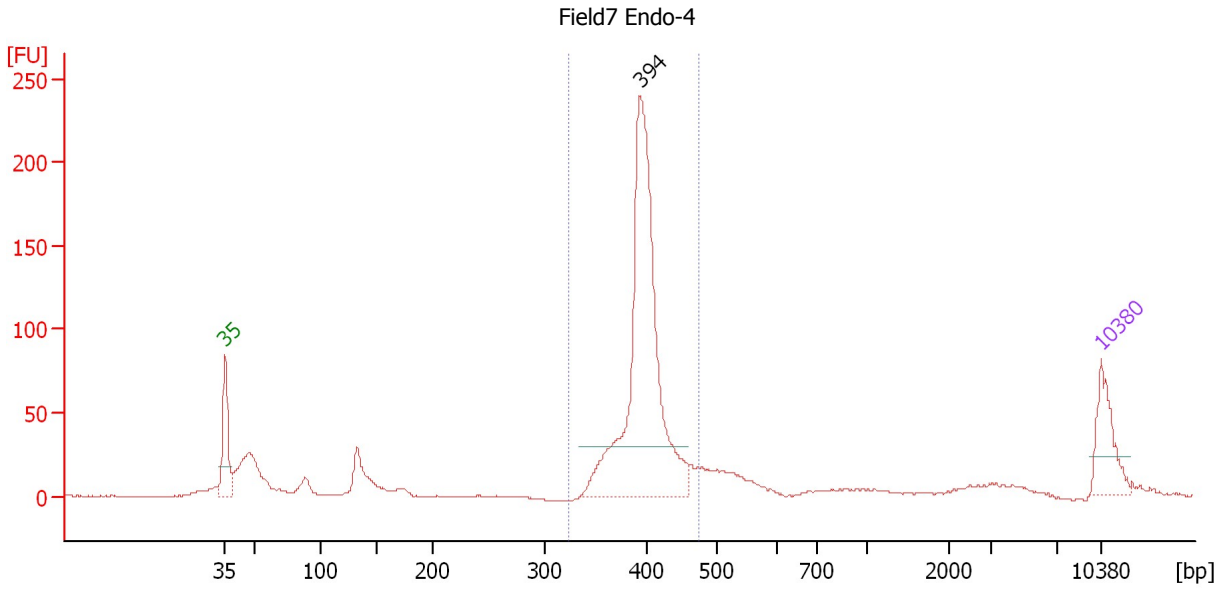
**Region table for sample 2 : Field7 BF-4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	446	391	3,010.0	775.74	333.6	30	5.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : Field7 Endo-4**

Height Threshold [FU] : 30

**Overall Results for sample 3 : Field7 Endo-4**

Number of peaks found: 1                      Corr. Area 1: 775.8  
 Noise: 0.5

**Peak table for sample 3 : Field7 Endo-4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	394	787.10	3,026.6	
3	10,380	75.00	10.9	Upper Marker

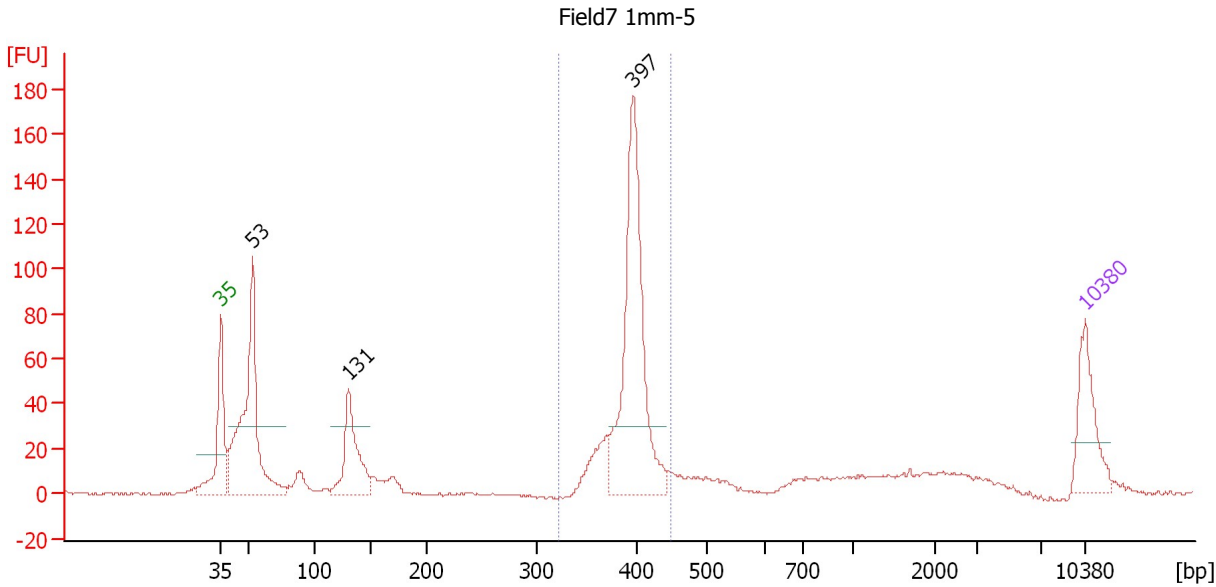
**Region table for sample 3 : Field7 Endo-4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
323	475	399	3,031.2	796.82	775.8	63	5.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : Field7 1mm-5**

Height Threshold [FU] : 30

**Overall Results for sample 4 : Field7 1mm-5**

Number of peaks found: 3                      Corr. Area 1: 454.2  
 Noise: 0.5

**Peak table for sample 4 : Field7 1mm-5**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	53	423.36	12,106.9	
3	131	156.00	1,810.0	
4	397	406.59	1,553.1	
5	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Field7 1mm-5**

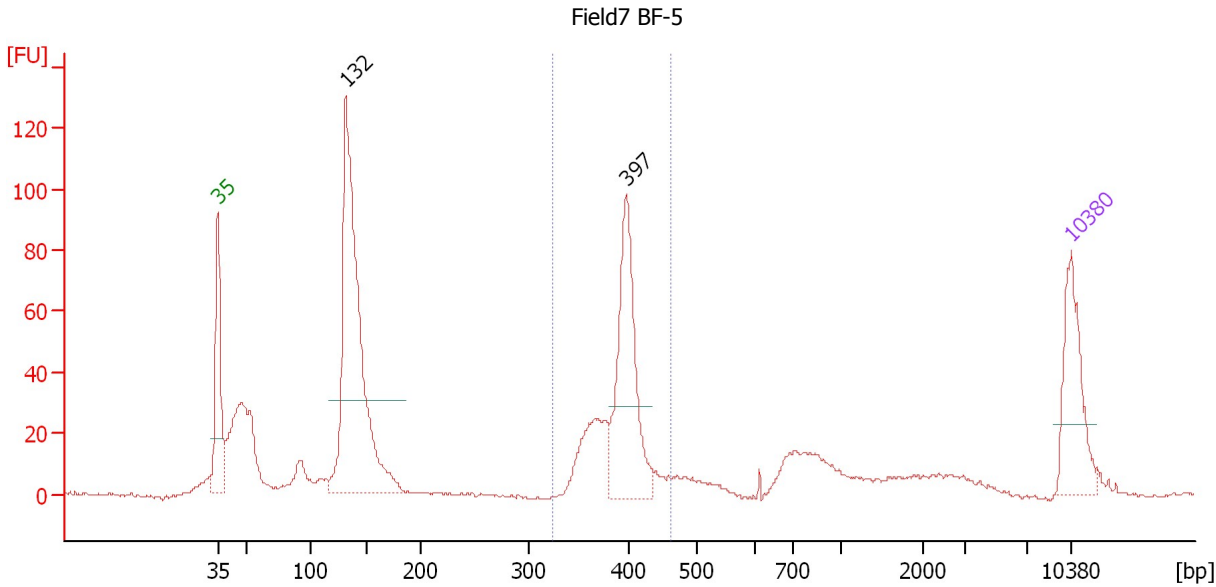
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
322	448	394	1,803.0	468.51	454.2	42	4.5	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : Field7 BF-5**

Height Threshold [FU] : 30

**Overall Results for sample 5 : Field7 BF-5**

Number of peaks found: 2                      Corr. Area 1: 308.1  
 Noise: 0.3

**Peak table for sample 5 : Field7 BF-5**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	132	505.41	5,794.6	
3	397	198.81	757.8	
4	10,380	75.00	10.9	Upper Marker

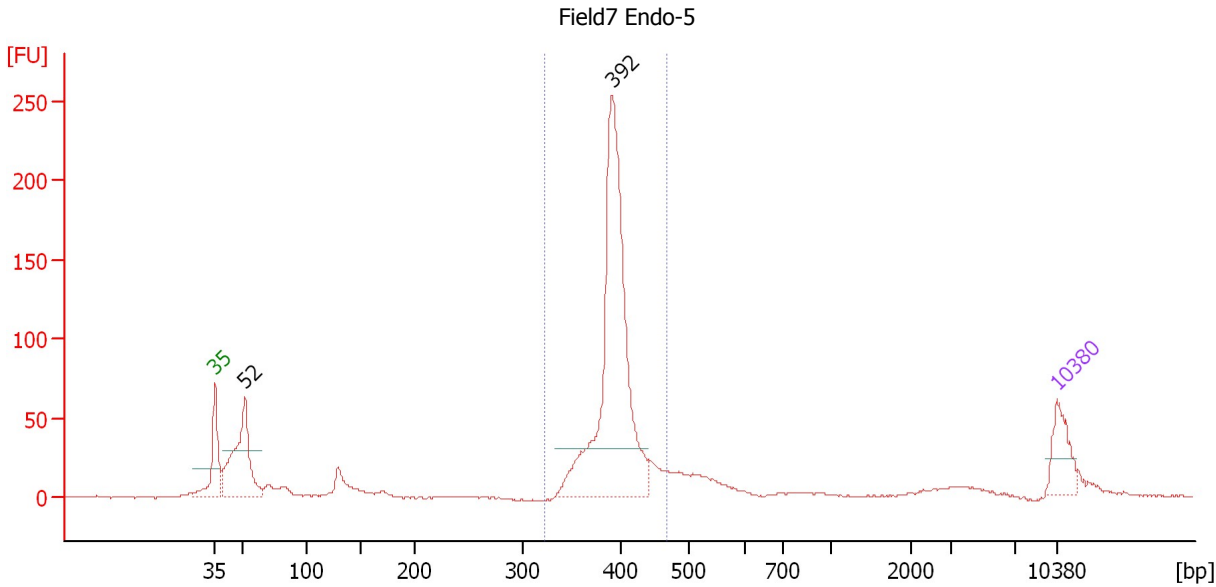
**Region table for sample 5 : Field7 BF-5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
323	461	392	1,089.9	281.12	308.1	28	5.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : Field7 Endo-5**

Height Threshold [FU] : 30

**Overall Results for sample 6 : Field7 Endo-5**

Number of peaks found: 2                      Corr. Area 1: 769.8  
 Noise: 0.4

**Peak table for sample 6 : Field7 Endo-5**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	379.07	11,136.7	
3	392	944.05	3,651.2	
4	10,380	75.00	10.9	Upper Marker

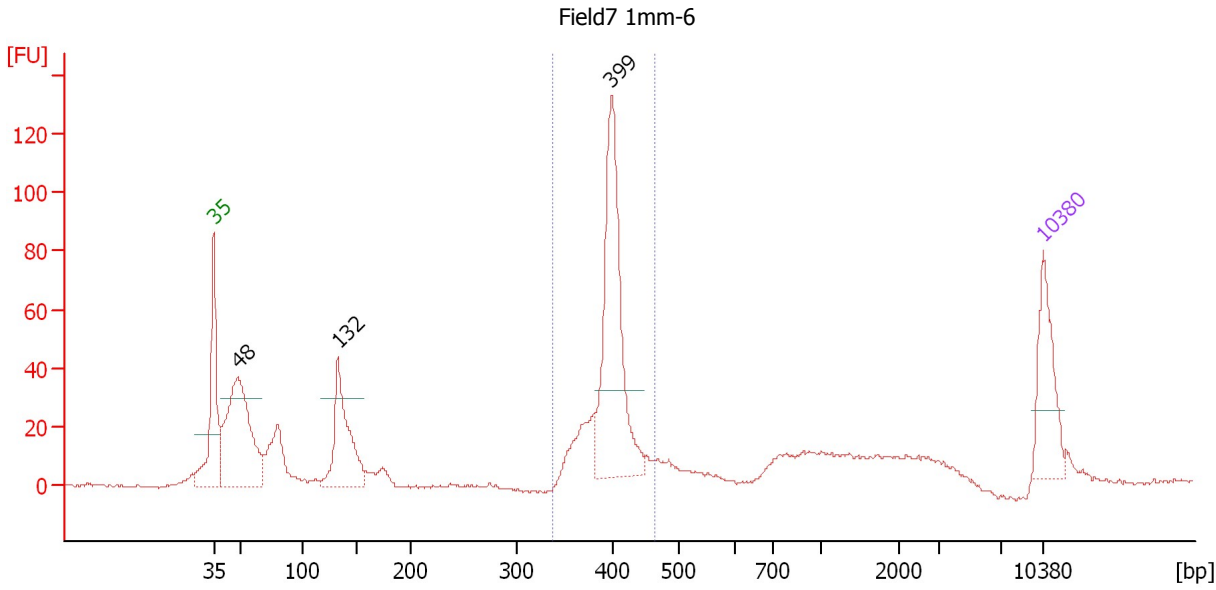
**Region table for sample 6 : Field7 Endo-5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
323	470	397	3,798.2	991.72	769.8	63	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : Field7 1mm-6**

Height Threshold [FU] : 30

**Overall Results for sample 7 : Field7 1mm-6**

Number of peaks found: 3                      Corr. Area 1: 362.6  
 Noise: 0.5

**Peak table for sample 7 : Field7 1mm-6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	317.28	9,938.9	
3	132	173.69	1,993.3	
4	399	300.35	1,140.9	
5	10,380	75.00	10.9	Upper Marker

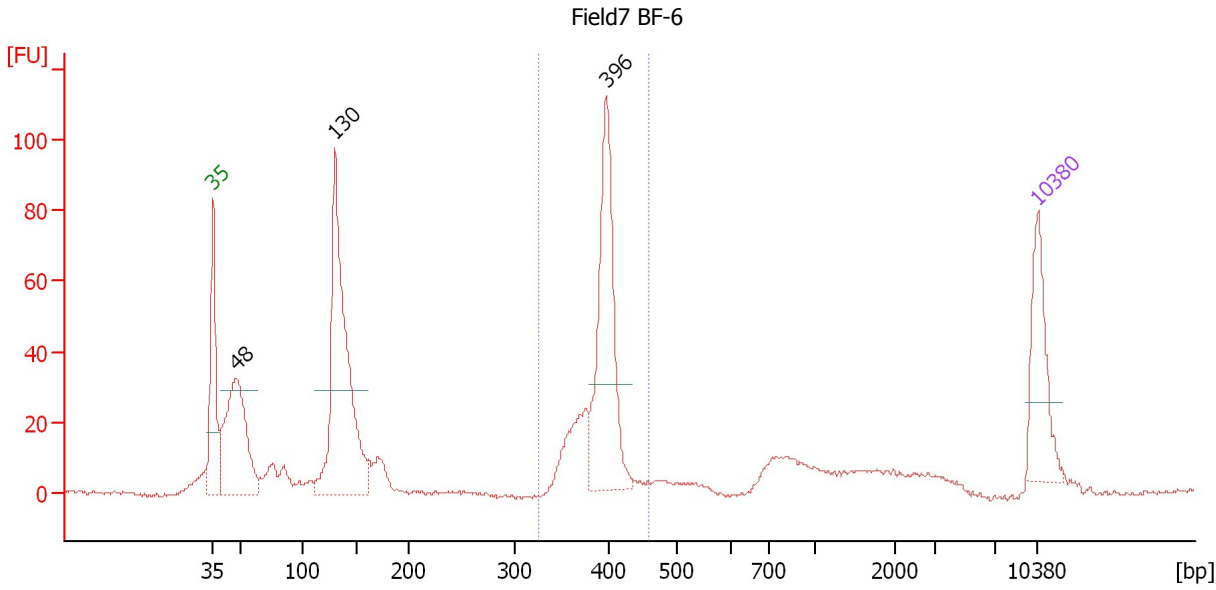
**Region table for sample 7 : Field7 1mm-6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
338	462	398	1,511.5	396.69	362.6	38	5.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : Field7 BF-6**

Height Threshold [FU] : 30

**Overall Results for sample 8 : Field7 BF-6**

Number of peaks found: 3                      Corr. Area 1: 293.0  
 Noise: 0.6

**Peak table for sample 8 : Field7 BF-6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	257.94	8,167.9	
3	130	421.59	4,905.7	
4	396	240.78	920.7	
5	10,380	75.00	10.9	Upper Marker

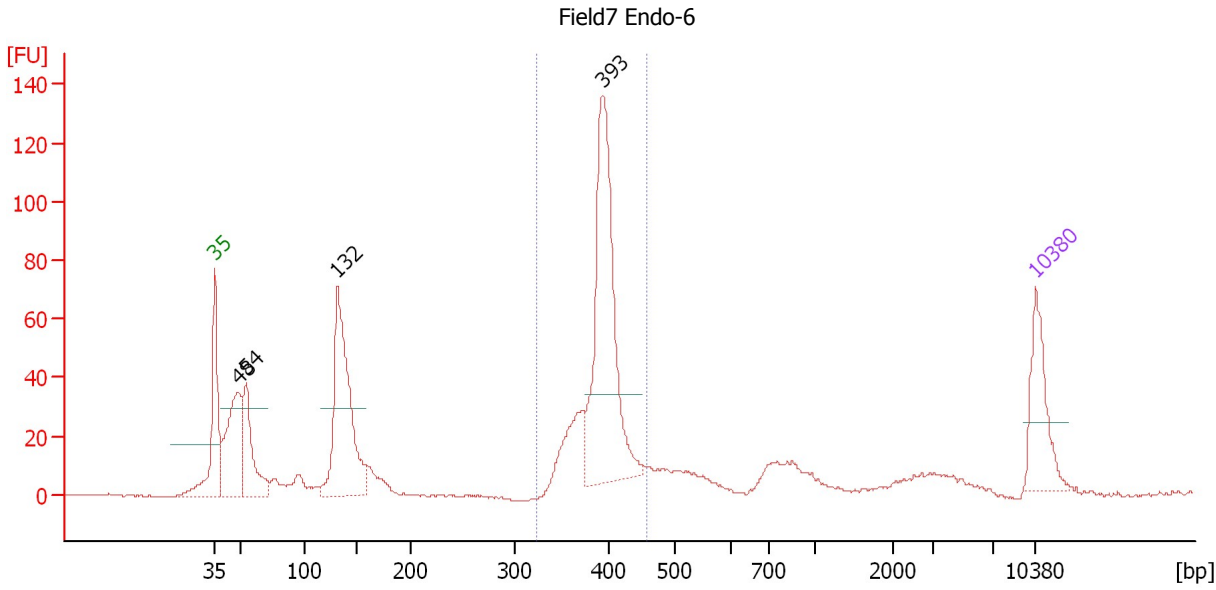
**Region table for sample 8 : Field7 BF-6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
326	459	390	1,263.7	325.10	293.0	32	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : Field7 Endo-6**

Height Threshold [FU] : 30

**Overall Results for sample 9 : Field7 Endo-6**

Number of peaks found: 4                      Corr. Area 1: 435.5  
 Noise: 0.3

**Peak table for sample 9 : Field7 Endo-6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	205.09	6,486.3	
3	54	139.32	3,918.6	
4	132	338.56	3,894.2	
5	393	378.21	1,459.9	
6	10,380	75.00	10.9	Upper Marker

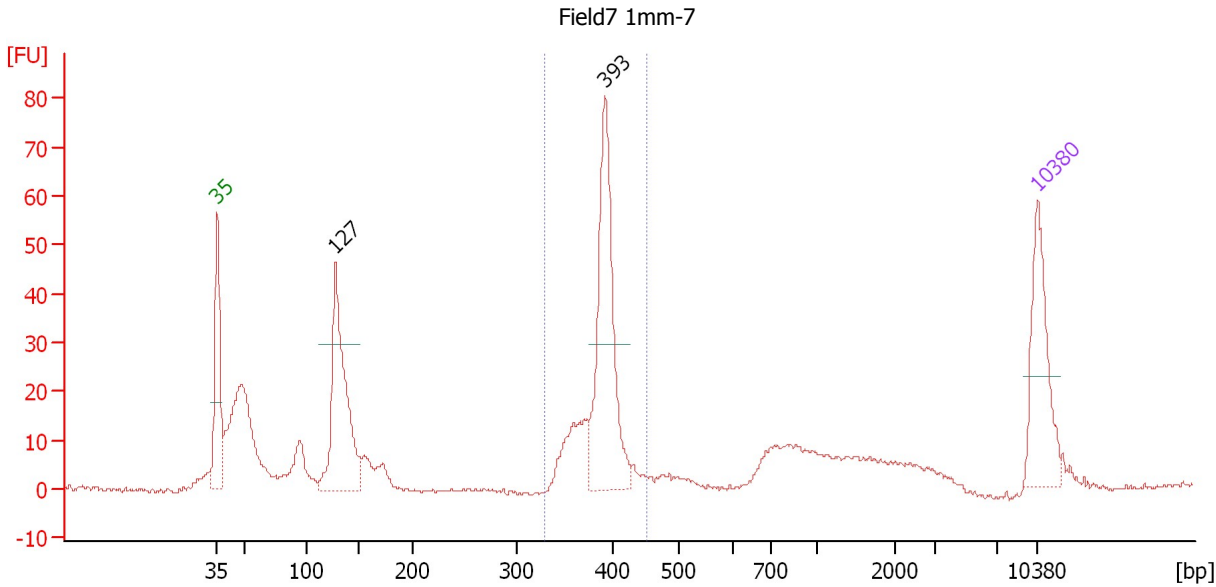
**Region table for sample 9 : Field7 Endo-6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
323	455	392	2,002.3	516.72	435.5	42	5.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : Field7 1mm-7**

Height Threshold [FU] : 30

**Overall Results for sample 10 : Field7 1mm-7**

Number of peaks found: 2                      Corr. Area 1: 203.5  
 Noise: 0.4

**Peak table for sample 10 : Field7 1mm-7**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	216.85	2,582.5	
3	393	211.18	815.1	
4	10,380	75.00	10.9	Upper Marker

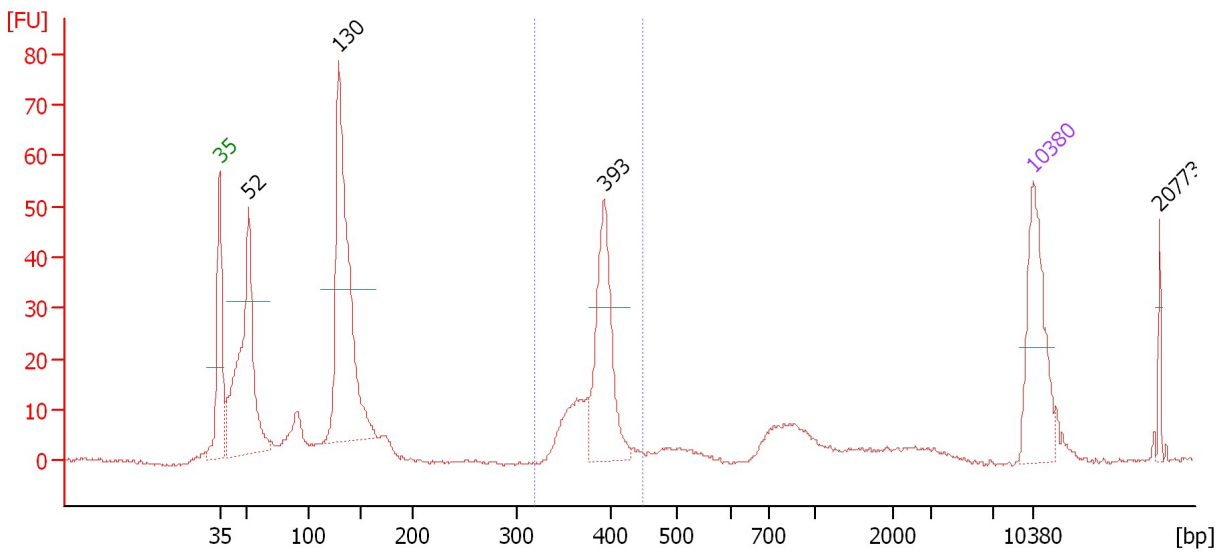
**Region table for sample 10 : Field7 1mm-7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
328	452	388	1,066.9	272.99	203.5	33	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
 Modified: 10/29/2013 4:37:56 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 11 :**

Height Threshold [FU] : 30

**Overall Results for sample 11 :**

Number of peaks found: 4                      Corr. Area 1: 149.4  
 Noise: 0.4

**Peak table for sample 11 :**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	254.21	7,356.5	
3	130	317.12	3,705.1	
4	393	132.94	513.0	
5	10,380	75.00	10.9	Upper Marker
6	20,773	0.00	0.0	

**Region table for sample 11 :**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
320	450	385	764.2	194.07	149.4	22	5.1	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-29\2013-10-29\_007.xad

Created: 10/29/2013 3:55:20 PM  
Modified: 10/29/2013 4:37:56 PM

**Gel Image**

