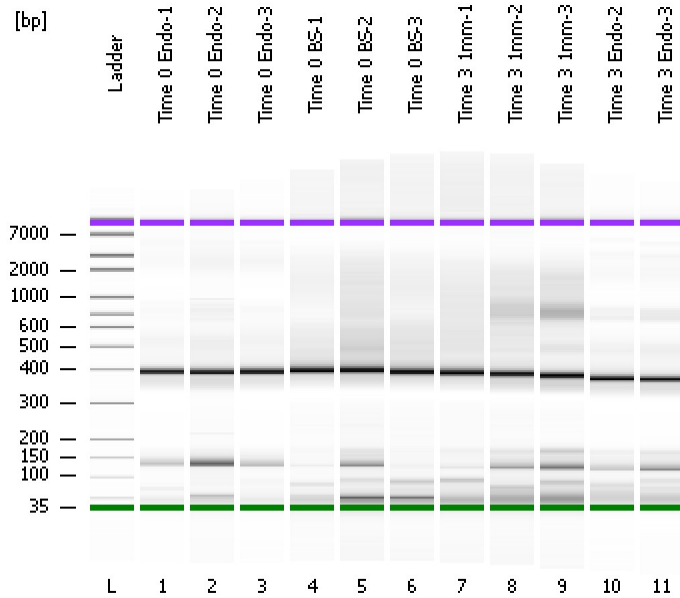


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
Modified: 12/6/2013 4:36:14 PM

Electrophoresis File Run Summary



Instrument Information:

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

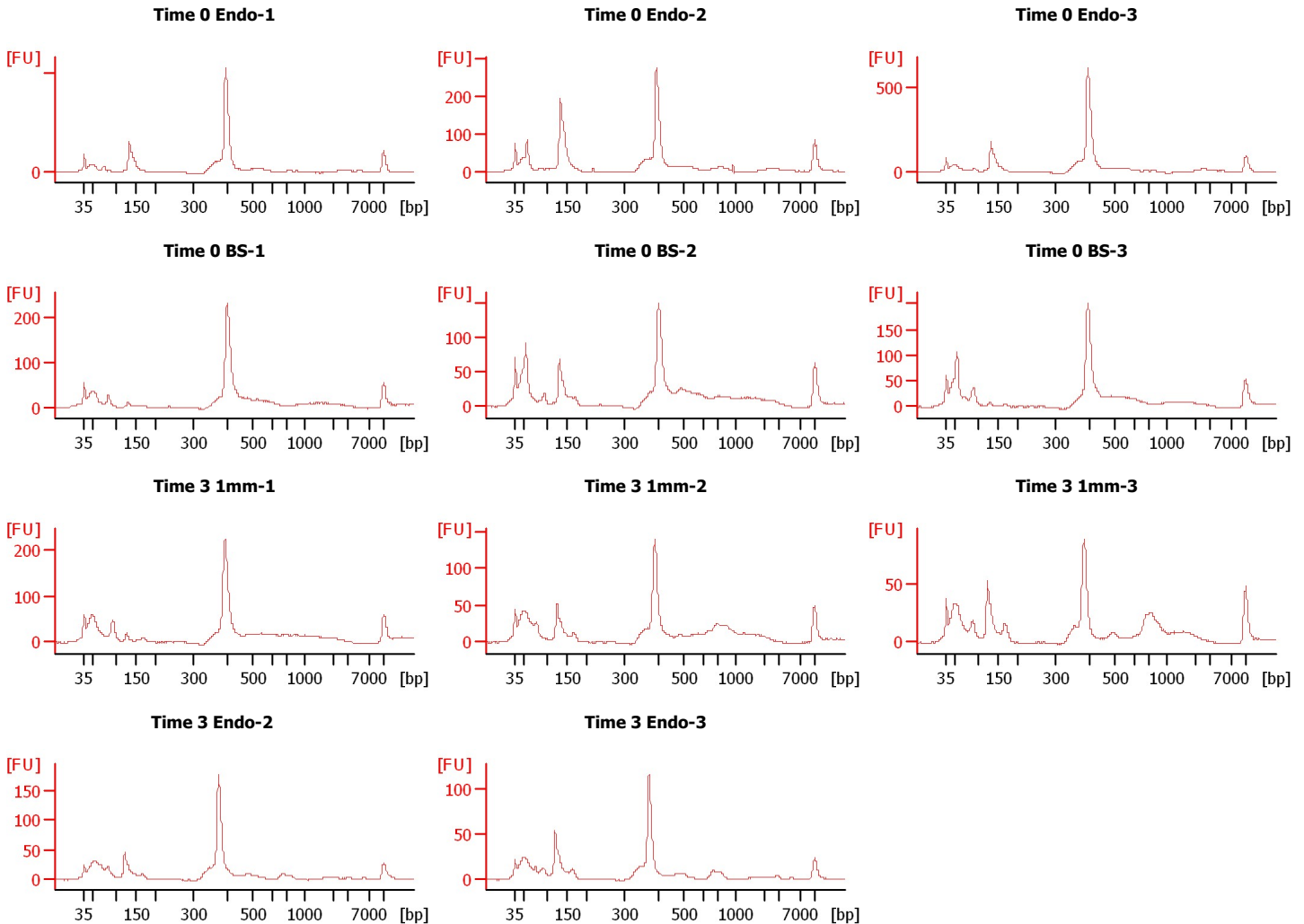
Assay Information:

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
Modified: 12/6/2013 4:36:14 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Time 0 Endo-1		<input type="checkbox"/>	✓			
Time 0 Endo-2		<input type="checkbox"/>	✓			
Time 0 Endo-3		<input type="checkbox"/>	✓			
Time 0 BS-1		<input type="checkbox"/>	✓			
Time 0 BS-2		<input type="checkbox"/>	✓			
Time 0 BS-3		<input type="checkbox"/>	✓			
Time 3 1mm-1		<input type="checkbox"/>	✓			
Time 3 1mm-2		<input type="checkbox"/>	✓			
Time 3 1mm-3		<input type="checkbox"/>	✓			
Time 3 Endo-2		<input type="checkbox"/>	✓			
Time 3 Endo-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\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 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

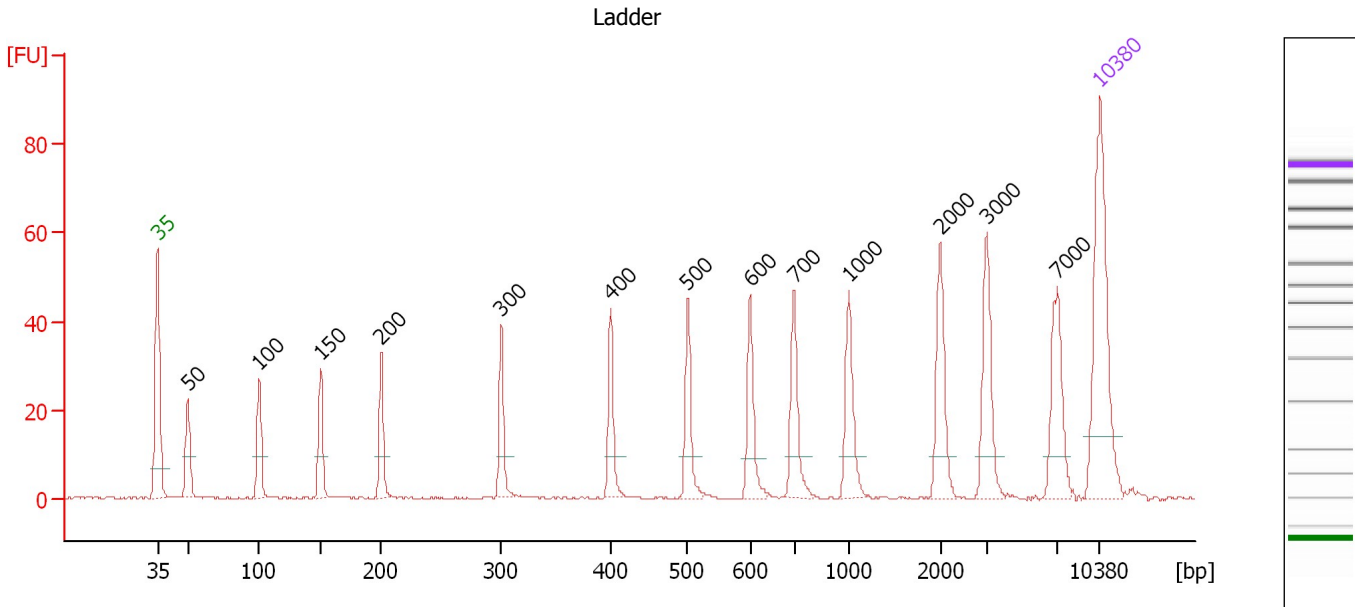
Ladder

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\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

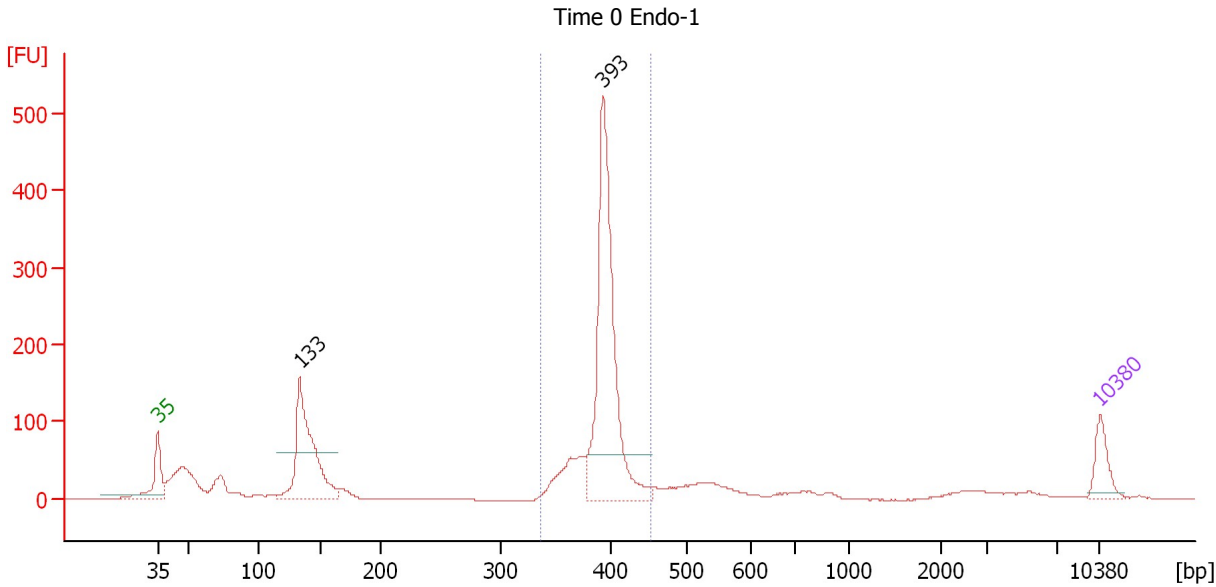
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.23	50	150.00	4,545.5	Ladder Peak
3	50.55	100	150.00	2,272.7	Ladder Peak
4	55.10	150	150.00	1,515.2	Ladder Peak
5	59.60	200	150.00	1,136.4	Ladder Peak
6	68.52	300	150.00	757.6	Ladder Peak
7	76.67	400	150.00	568.2	Ladder Peak
8	82.38	500	150.00	454.5	Ladder Peak
9	87.01	600	150.00	378.8	Ladder Peak
10	90.27	700	150.00	324.7	Ladder Peak
11	94.38	1,000	150.00	227.3	Ladder Peak
12	101.12	2,000	150.00	113.6	Ladder Peak
13	104.59	3,000	150.00	75.8	Ladder Peak
14	109.83	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
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Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : Time 0 Endo-1

Height Threshold [FU] : 60

Overall Results for sample 1 : Time 0 Endo-1

Number of peaks found: 2 Corr. Area 1: 1,117.1
 Noise: 0.2

Peak table for sample 1 : Time 0 Endo-1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.55	133	601.75	6,854.2	
3	76.07	393	960.75	3,707.5	
4	113.00	10,380	75.00	10.9	Upper Marker

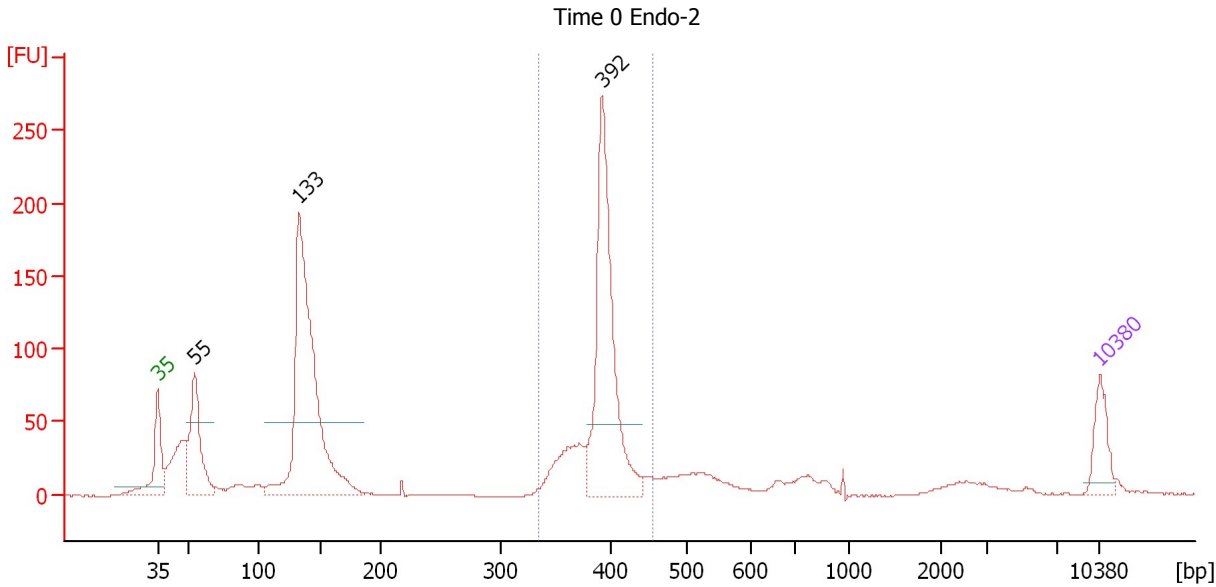
Region table for sample 1 : Time 0 Endo-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	453	393	4,268.0	1,104.84	1,117.1	53	4.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : Time 0 Endo-2

Height Threshold [FU] : 50

Overall Results for sample 2 : Time 0 Endo-2

Number of peaks found: 3 Corr. Area 1: 630.6
 Noise: 0.4

Peak table for sample 2 : Time 0 Endo-2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.75	55	318.75	8,801.6	
3	53.52	133	1,120.34	12,792.9	
4	76.02	392	667.52	2,579.6	
5	113.00	10,380	75.00	10.9	Upper Marker

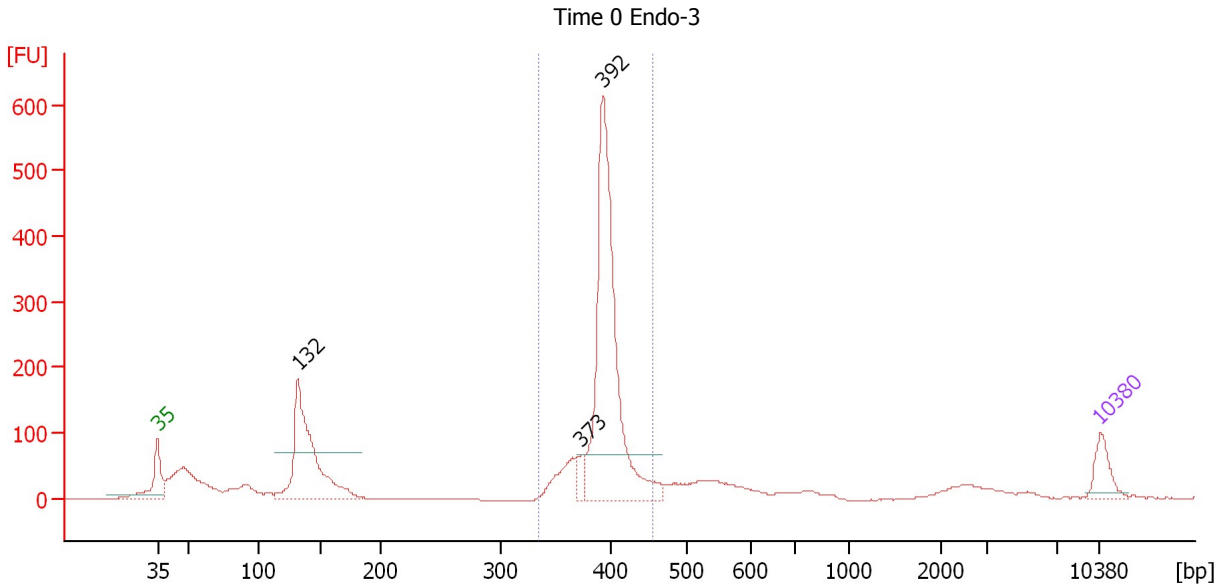
Region table for sample 2 : Time 0 Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
334	455	391	3,208.4	827.22	630.6	36	5.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : Time 0 Endo-3

Height Threshold [FU] : 70

Overall Results for sample 3 : Time 0 Endo-3

Number of peaks found: 3 Corr. Area 1: 1,434.3
 Noise: 0.4

Peak table for sample 3 : Time 0 Endo-3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	53.42	132	732.83	8,441.7	
3	74.47	373	58.19	236.4	
4	76.06	392	1,199.31	4,629.8	
5	113.00	10,380	75.00	10.9	Upper Marker

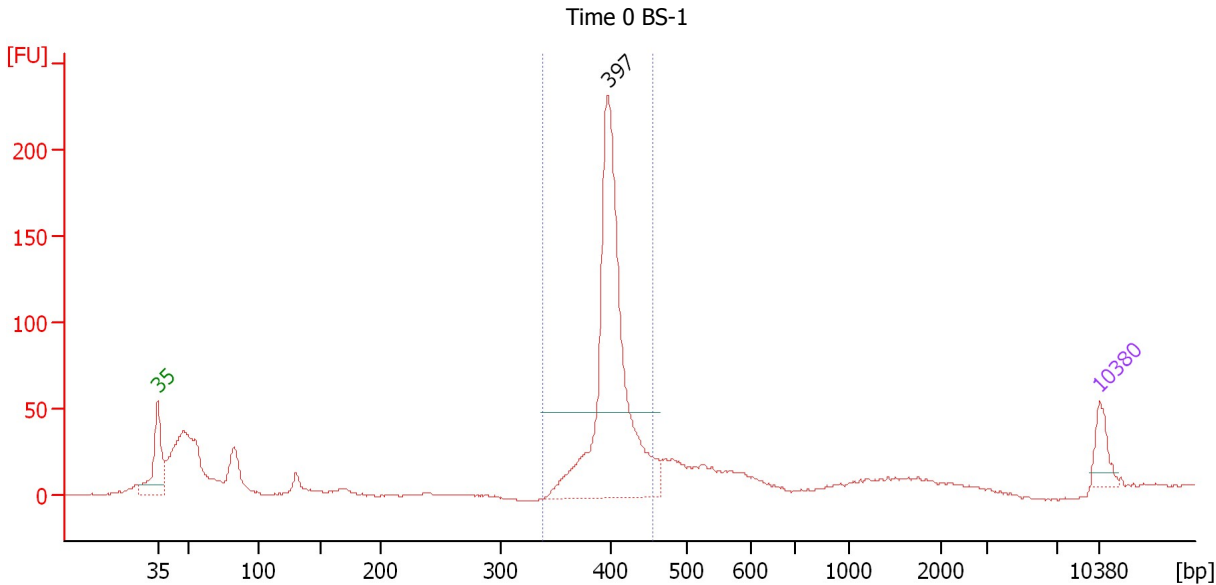
Region table for sample 3 : Time 0 Endo-3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
335	456	394	5,072.5	1,318.14	1,434.3	53	4.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : Time 0 BS-1

Height Threshold [FU] : 50

Overall Results for sample 4 : Time 0 BS-1

Number of peaks found: 1 Corr. Area 1: 567.6
 Noise: 0.5

Peak table for sample 4 : Time 0 BS-1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.47	397	1,426.60	5,437.8	
3	113.00	10,380	75.00	10.9	Upper Marker

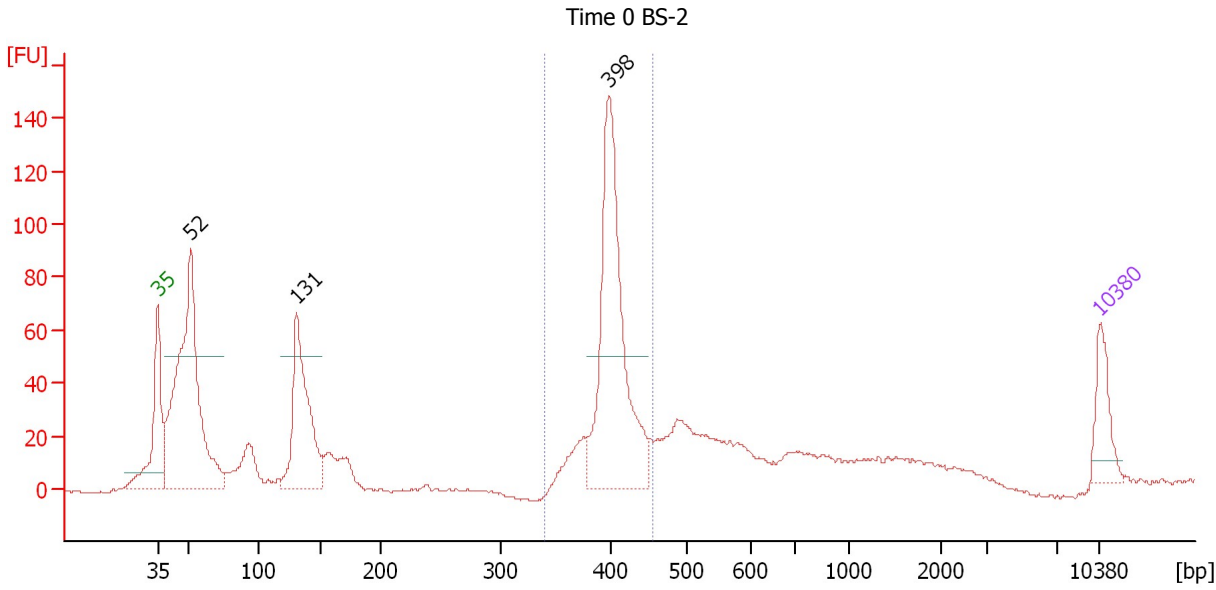
Region table for sample 4 : Time 0 BS-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
337	455	402	4,838.1	1,282.73	567.6	54	4.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : Time 0 BS-2

Height Threshold [FU] : 50

Overall Results for sample 5 : Time 0 BS-2

Number of peaks found: 3 Corr. Area 1: 393.5
 Noise: 0.6

Peak table for sample 5 : Time 0 BS-2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.46	52	872.45	25,357.8	
3	53.34	131	405.66	4,703.8	
4	76.52	398	618.08	2,352.3	
5	113.00	10,380	75.00	10.9	Upper Marker

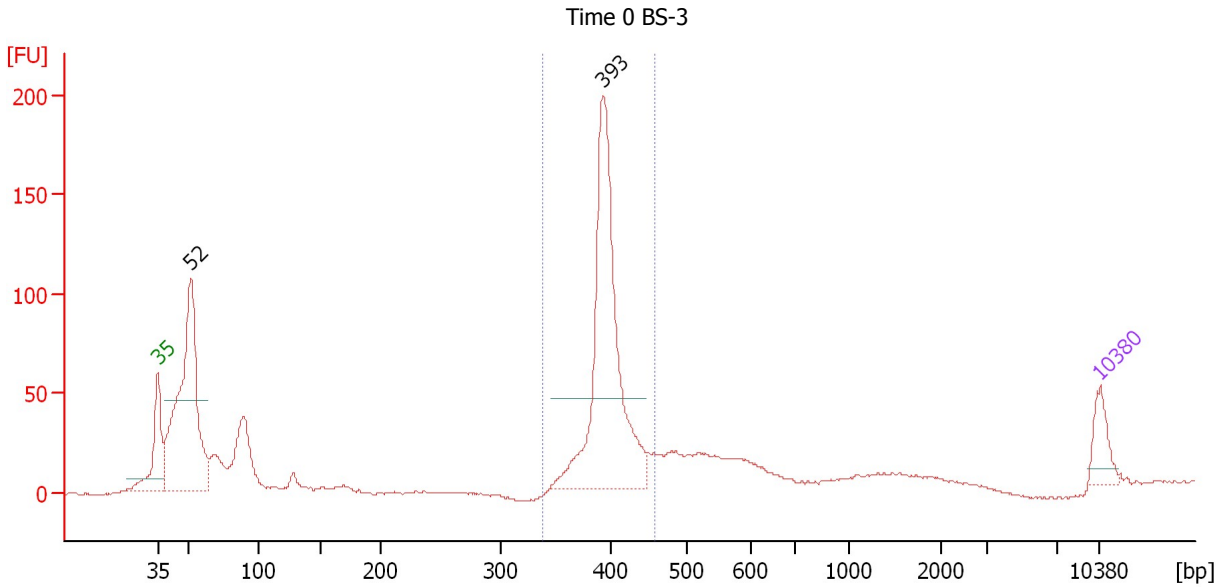
Region table for sample 5 : Time 0 BS-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
340	456	403	2,585.0	685.69	393.5	30	4.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : Time 0 BS-3

Height Threshold [FU] : 45

Overall Results for sample 6 : Time 0 BS-3

Number of peaks found: 2 Corr. Area 1: 510.4
 Noise: 0.6

Peak table for sample 6 : Time 0 BS-3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.49	52	1,034.76	29,897.4	
3	76.12	393	988.43	3,808.2	
4	113.00	10,380	75.00	10.9	Upper Marker

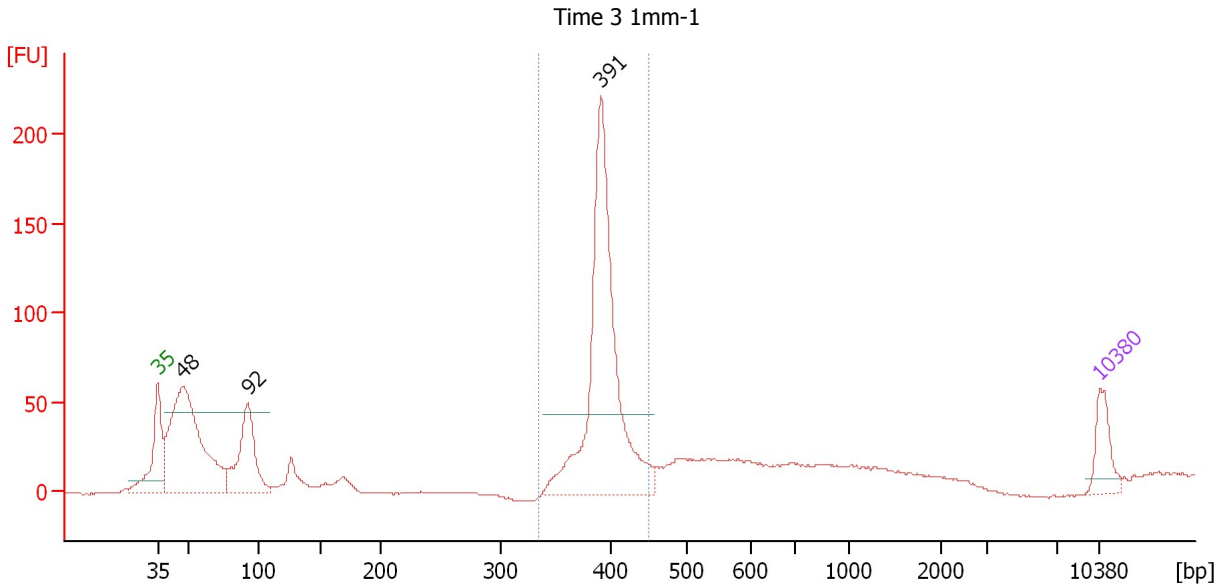
Region table for sample 6 : Time 0 BS-3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
338	458	399	3,910.2	1,027.59	510.4	39	4.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : Time 3 1mm-1

Height Threshold [FU] : 45

Overall Results for sample 7 : Time 3 1mm-1

Number of peaks found: 3 Corr. Area 1: 538.6
 Noise: 0.6

Peak table for sample 7 : Time 3 1mm-1

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.86	48	834.79	26,604.9	
3	49.69	92	321.07	5,289.9	
4	75.94	391	941.52	3,647.6	
5	113.00	10,380	75.00	10.9	Upper Marker

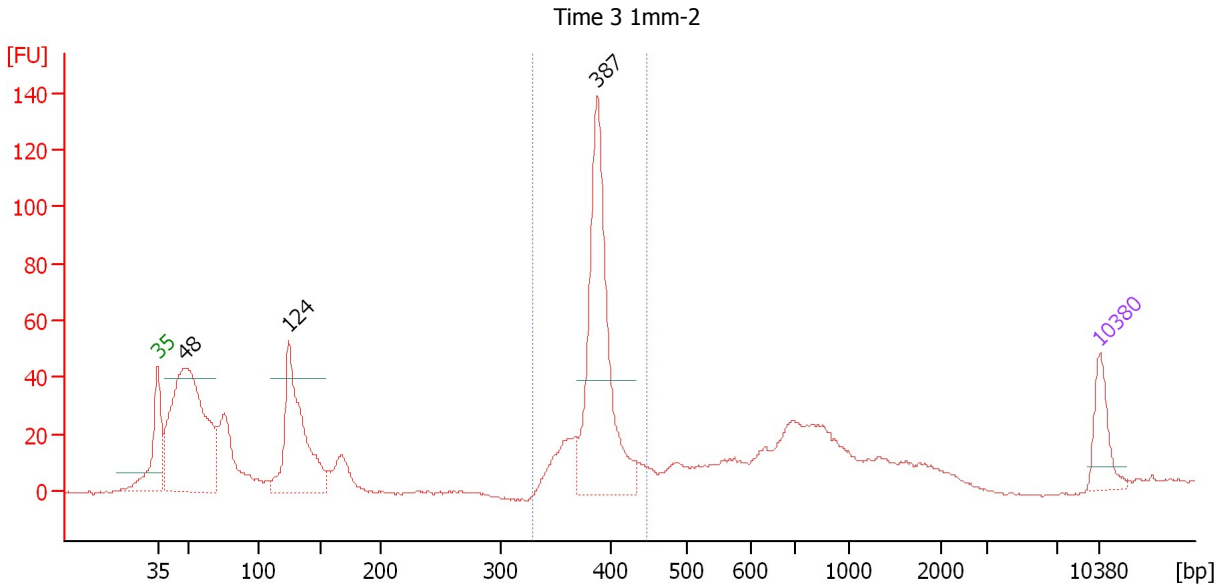
Region table for sample 7 : Time 3 1mm-1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
335	450	394	3,410.2	885.54	538.6	36	4.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : Time 3 1mm-2

Height Threshold [FU] : 40

Overall Results for sample 8 : Time 3 1mm-2

Number of peaks found: 3 Corr. Area 1: 331.4
 Noise: 0.4

Peak table for sample 8 : Time 3 1mm-2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.00	48	865.41	27,078.5	
3	52.74	124	461.31	5,631.4	
4	75.65	387	630.24	2,464.6	
5	113.00	10,380	75.00	10.9	Upper Marker

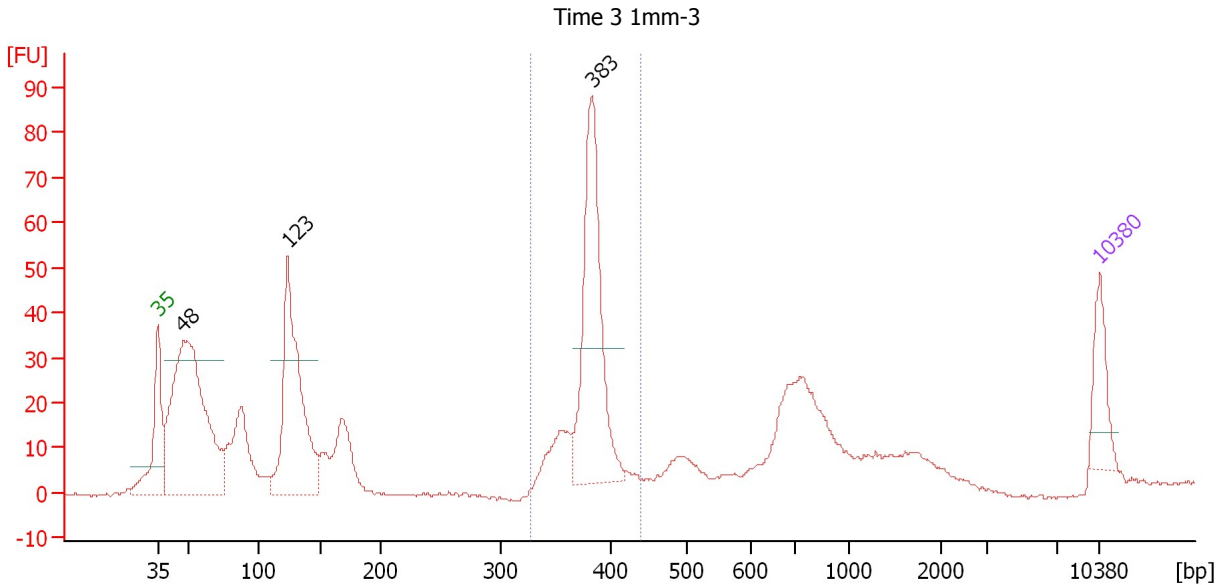
Region table for sample 8 : Time 3 1mm-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	447	387	2,826.5	721.55	331.4	29	4.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : Time 3 1mm-3

Height Threshold [FU] : 30

Overall Results for sample 9 : Time 3 1mm-3

Number of peaks found: 3 Corr. Area 1: 214.4
 Noise: 0.4

Peak table for sample 9 : Time 3 1mm-3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	44.91	48	831.42	26,321.6	
3	52.65	123	527.48	6,490.0	
4	75.27	383	453.72	1,795.7	
5	113.00	10,380	75.00	10.9	Upper Marker

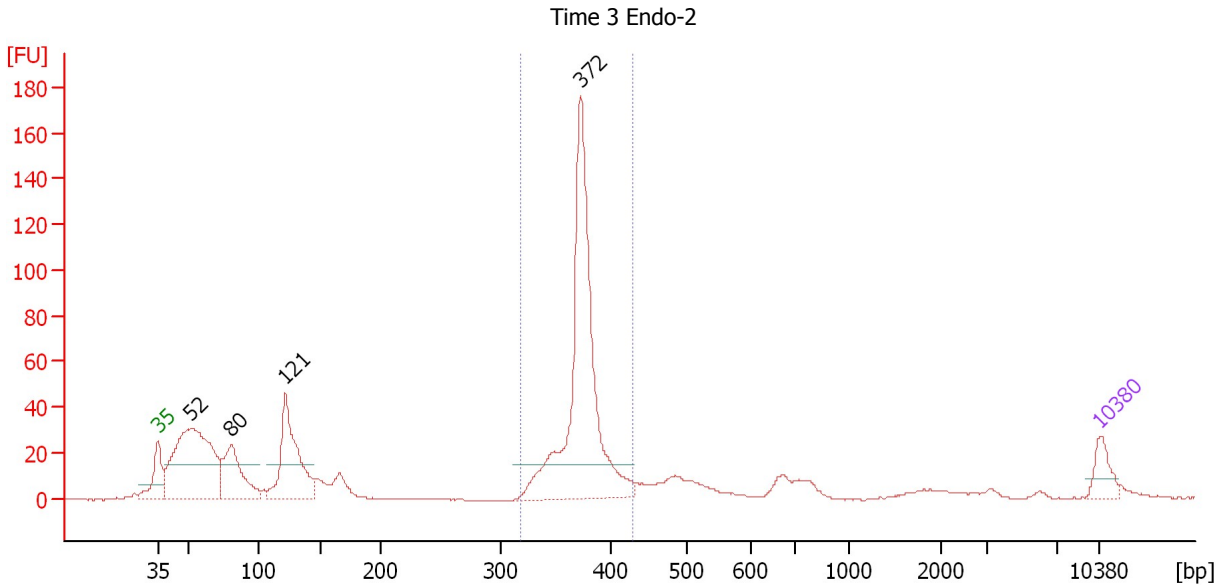
Region table for sample 9 : Time 3 1mm-3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
327	438	380	2,316.8	580.41	214.4	25	4.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : Time 3 Endo-2

Height Threshold [FU] : 15

Overall Results for sample 10 : Time 3 Endo-2

Number of peaks found: 4 Corr. Area 1: 393.2
 Noise: 0.3

Peak table for sample 10 : Time 3 Endo-2

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.48	52	1,060.08	30,699.7	
3	48.46	80	373.19	7,037.2	
4	52.50	121	571.79	7,136.0	
5	74.42	372	1,417.06	5,765.3	
6	113.00	10,380	75.00	10.9	Upper Marker

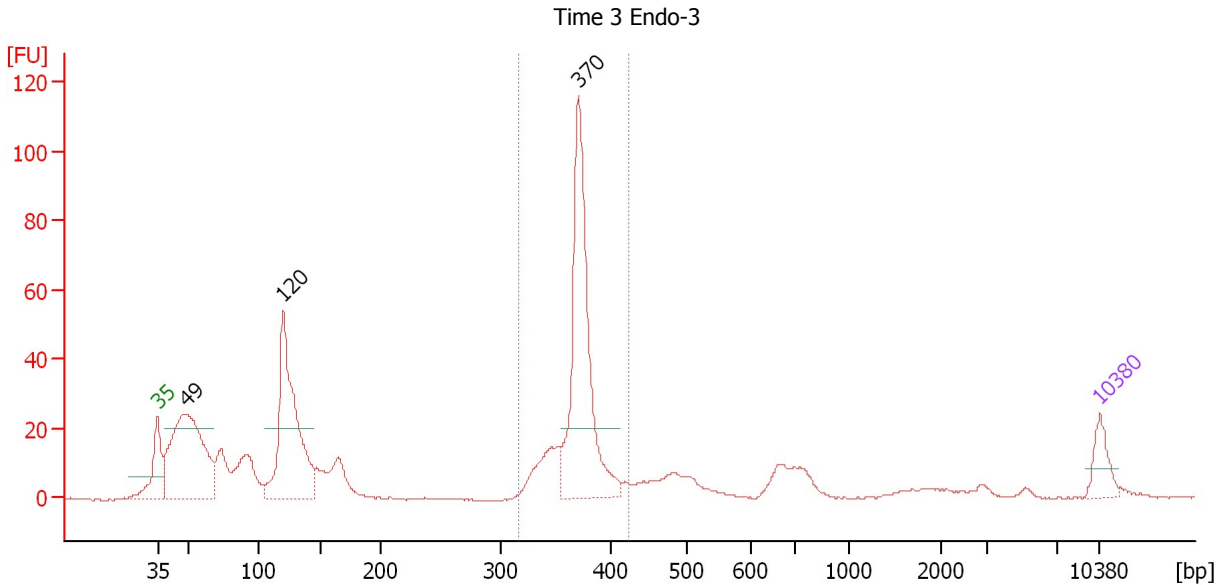
Region table for sample 10 : Time 3 Endo-2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
318	430	373	5,632.7	1,385.93	393.2	42	4.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
 Modified: 12/6/2013 4:36:14 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : Time 3 Endo-3

Height Threshold [FU] : 20

Overall Results for sample 11 : Time 3 Endo-3

Number of peaks found: 3 Corr. Area 1: 245.1
 Noise: 0.2

Peak table for sample 11 : Time 3 Endo-3

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.08	49	892.58	27,590.5	
3	52.33	120	840.45	10,645.2	
4	74.26	370	885.78	3,622.9	
5	113.00	10,380	75.00	10.9	Upper Marker

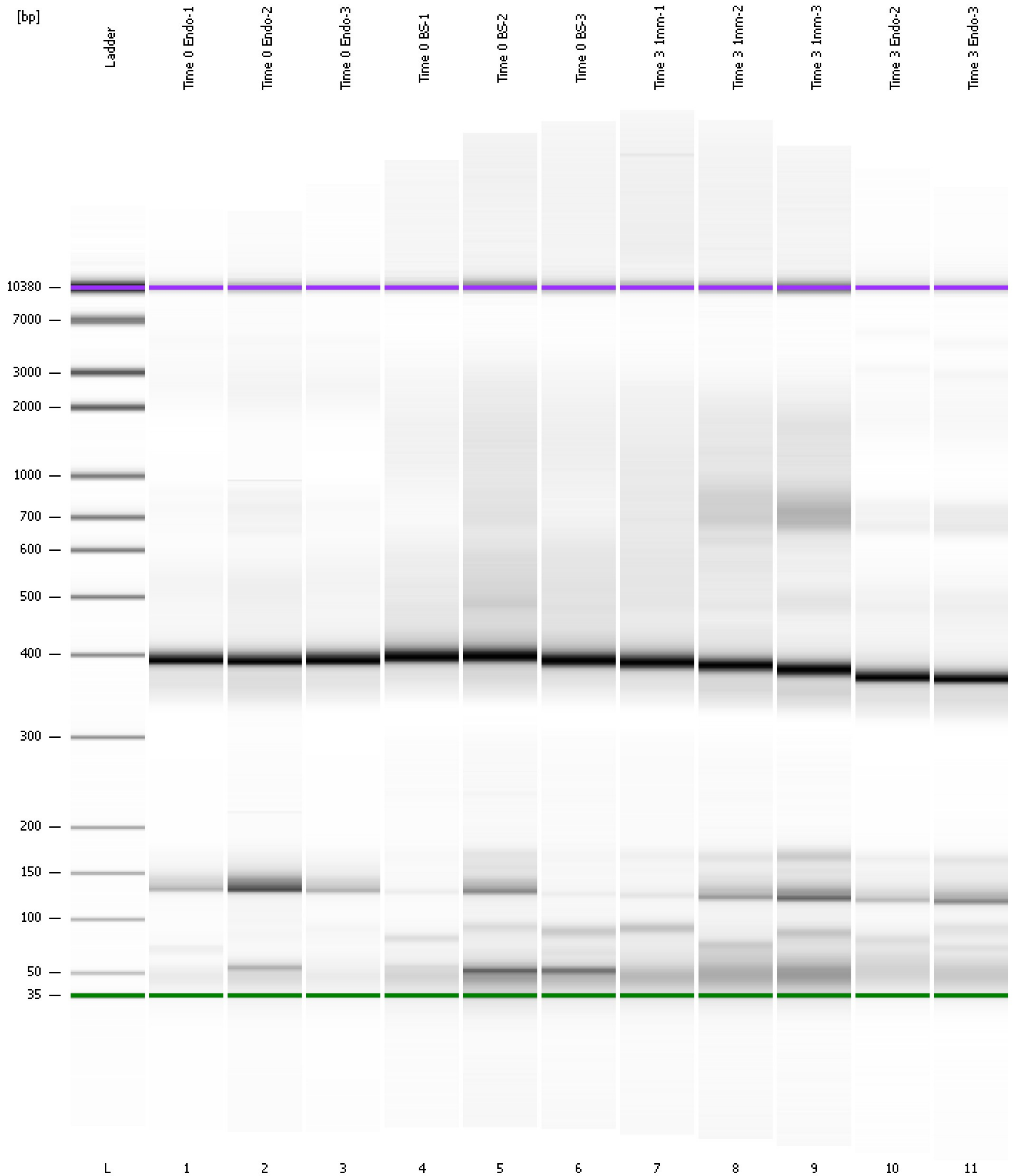
Region table for sample 11 : Time 3 Endo-3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
316	423	369	4,371.7	1,064.75	245.1	34	4.5	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
Modified: 12/6/2013 4:36:14 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-06\2013-12-06_007.xad

Created: 12/6/2013 3:54:42 PM
Modified: 12/6/2013 4:36:14 PM

Curves

Standard Curve

