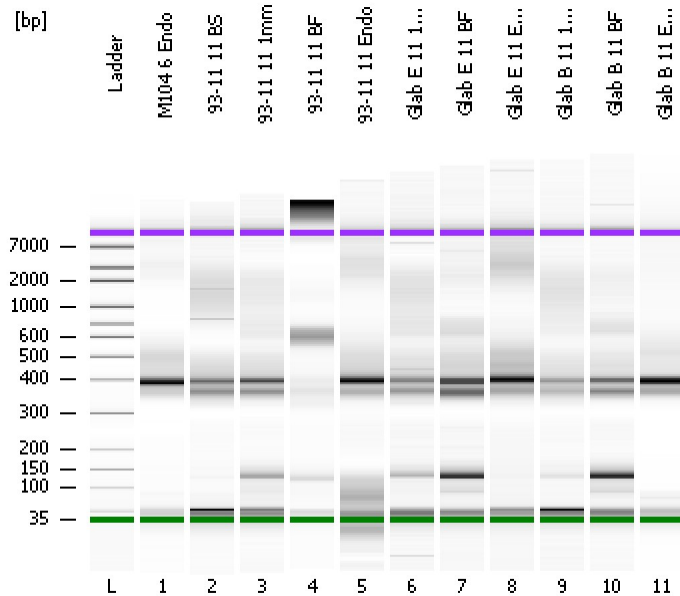


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
Modified: 7/12/2013 3:15:58 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

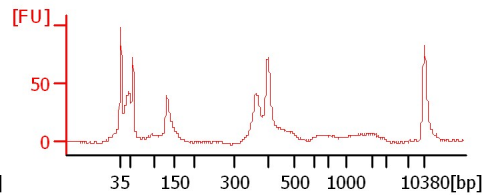
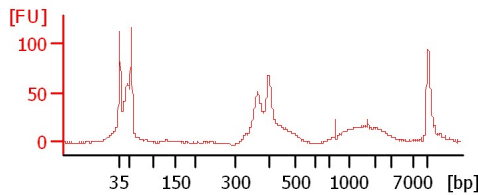
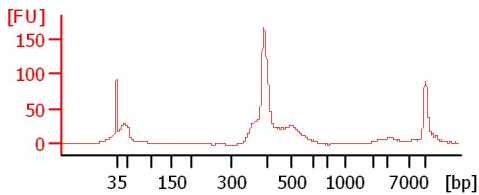
Chip Information:

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

**M104 6 Endo**

**93-11 11 BS**

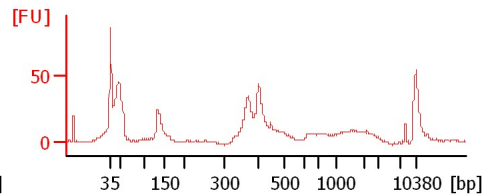
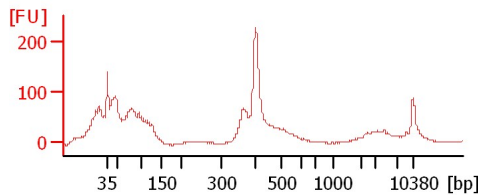
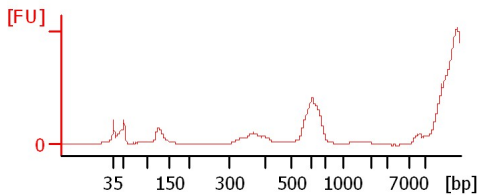
**93-11 11 1mm**



**93-11 11 BF**

**93-11 11 Endo**

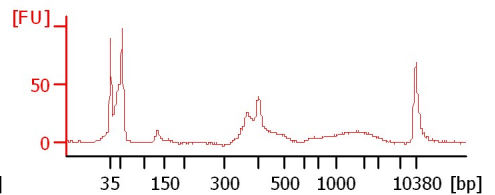
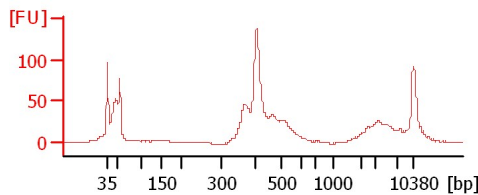
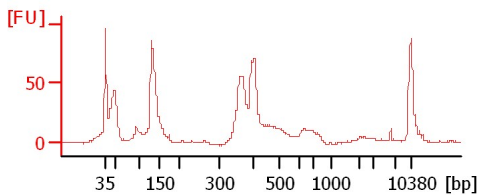
**Glab E 11 1mm**



**Glab E 11 BF**

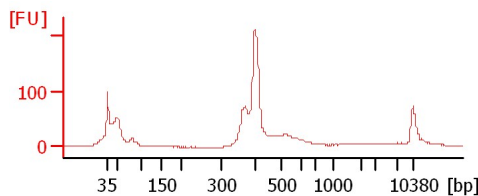
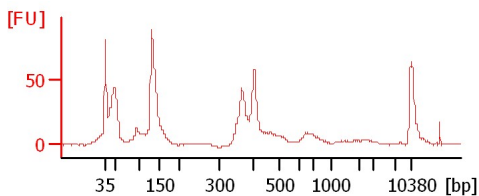
**Glab E 11 Endo**

**Glab B 11 1mm**



**Glab B 11 BF**

**Glab B 11 Endo**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
M104 6 Endo		<input type="checkbox"/>	✓			
93-11 11 BS		<input type="checkbox"/>	✓			
93-11 11 1mm		<input type="checkbox"/>	✓			
93-11 11 BF		<input type="checkbox"/>	✓			
93-11 11 Endo		<input type="checkbox"/>	✓			
Glub E 11 1mm		<input type="checkbox"/>	✓			
Glub E 11 BF		<input type="checkbox"/>	✓			
Glub E 11 Endo		<input type="checkbox"/>	✓			
Glub B 11 1mm		<input type="checkbox"/>	✓			
Glub B 11 BF		<input type="checkbox"/>	✓			
Glub B 11 Endo		<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\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
Modified: 7/12/2013 3:15:58 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

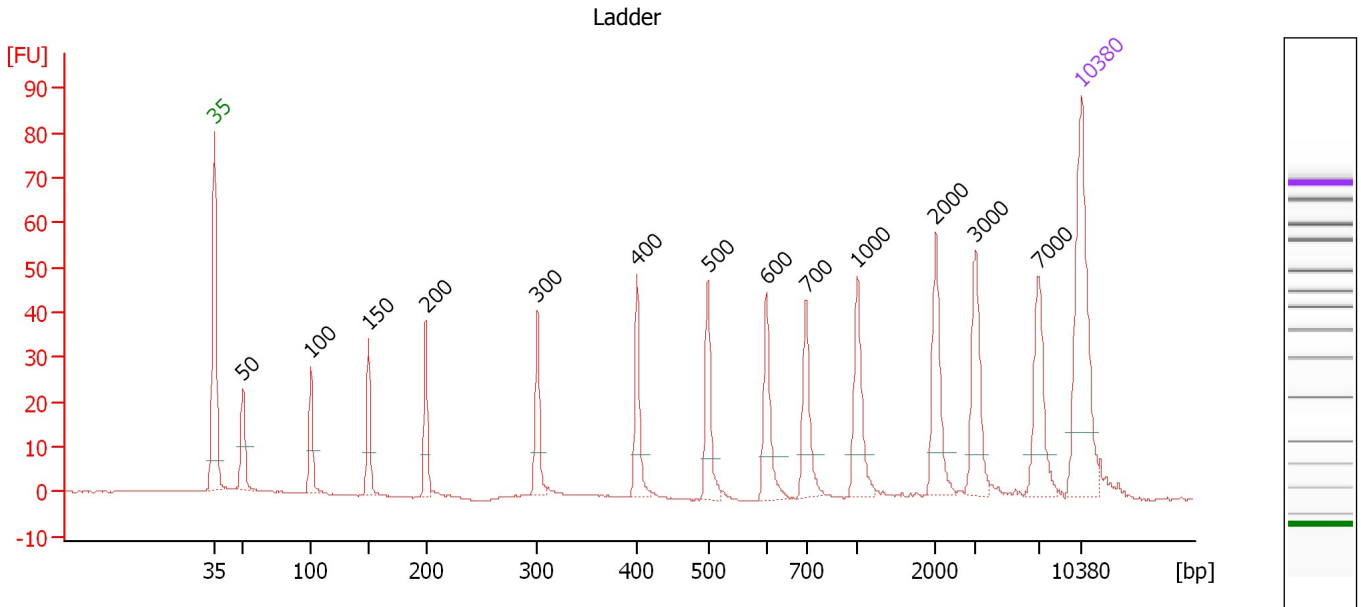
**Ladder**

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\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

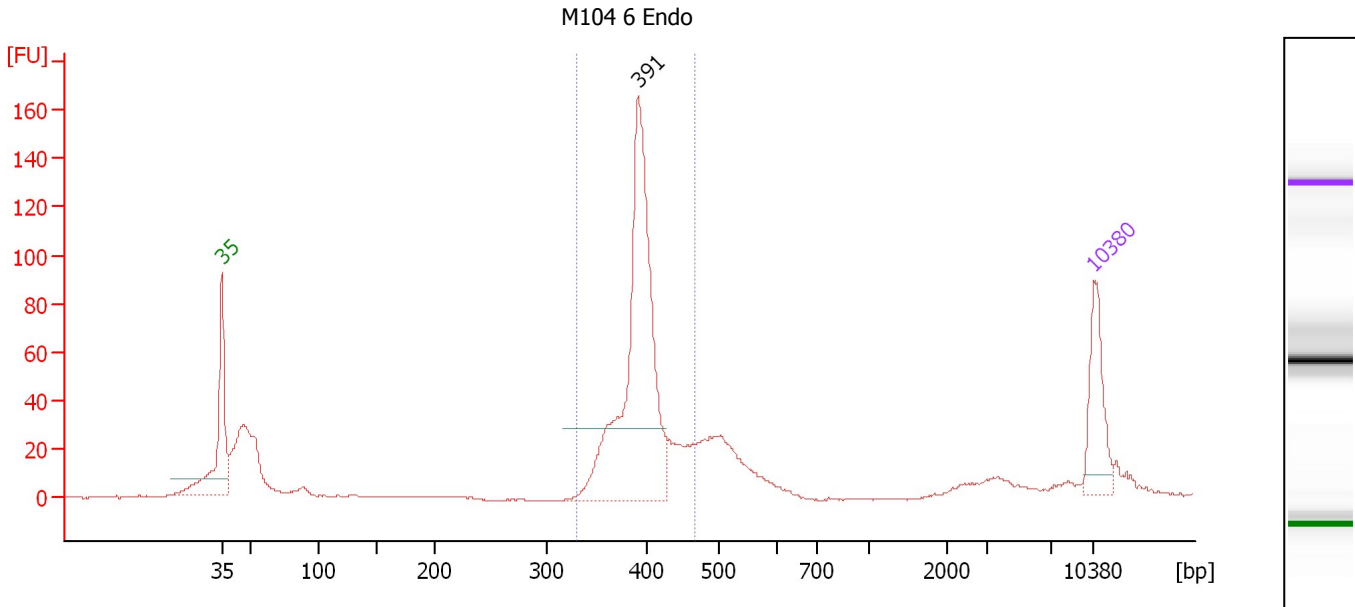
**Peak table for Ladder**

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\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : M104 6 Endo**

Height Threshold [FU] : 30

**Overall Results for sample 1 : M104 6 Endo**

Number of peaks found: 1                      Corr. Area 1: 556.3  
 Noise: 0.1

**Peak table for sample 1 : M104 6 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	391	550.67	2,132.3	
3	10,380	75.00	10.9	Upper Marker

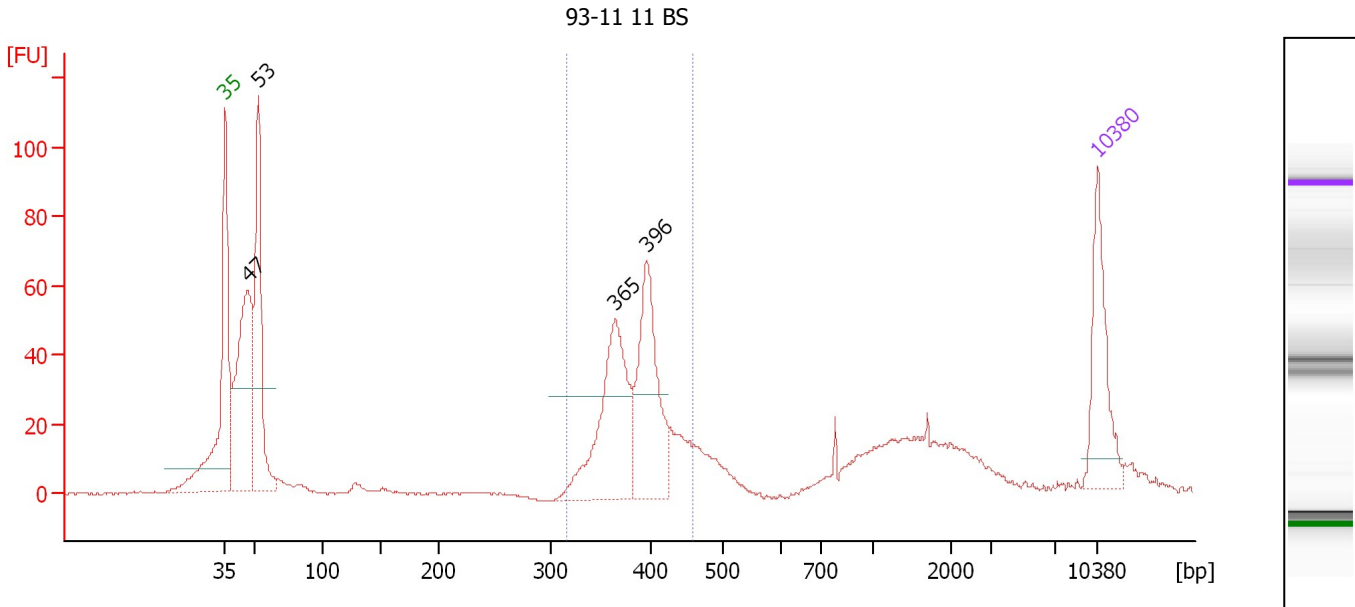
**Region table for sample 1 : M104 6 Endo**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
331	467	396	2,293.1	598.02	556.3	59	6.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : 93-11 11 BS**

Height Threshold [FU] : 30

**Overall Results for sample 2 : 93-11 11 BS**

Number of peaks found: 4      Corr. Area 1: 368.8  
 Noise: 0.3

**Peak table for sample 2 : 93-11 11 BS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	297.39	9,668.8	
3	53	235.81	6,739.2	
4	365	200.50	831.8	
5	396	173.57	664.0	
6	10,380	75.00	10.9	Upper Marker

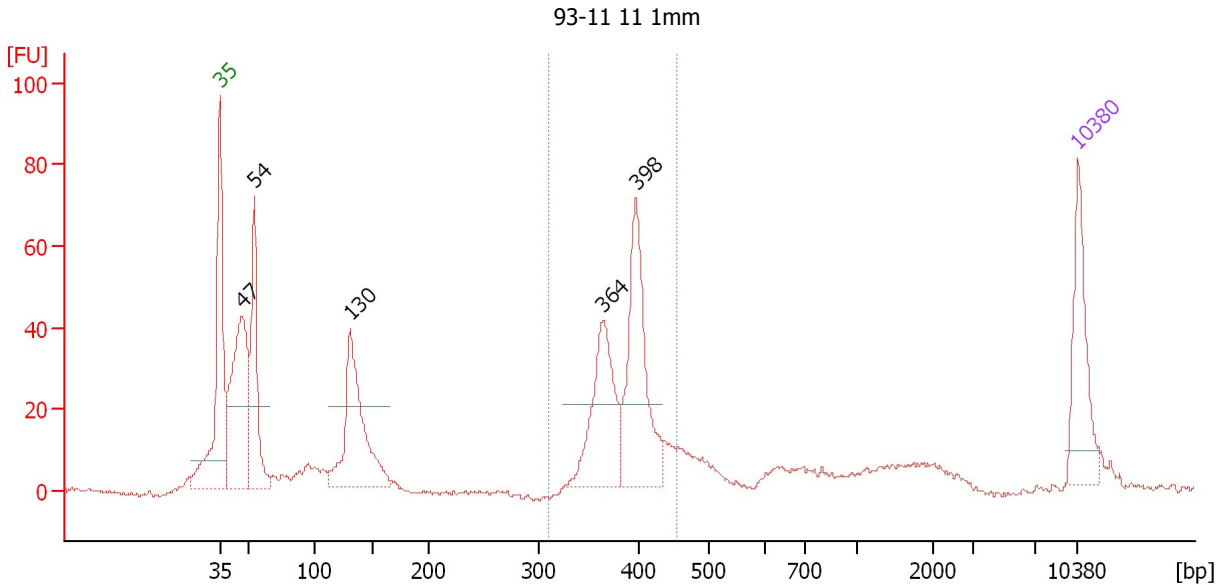
**Region table for sample 2 : 93-11 11 BS**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
316	460	387	1,527.9	387.97	368.8	37	7.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : 93-11 11 1mm**

Height Threshold [FU] : 20

**Overall Results for sample 3 : 93-11 11 1mm**

Number of peaks found: 5                      Corr. Area 1: 292.0  
 Noise: 0.6

**Peak table for sample 3 : 93-11 11 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	280.45	9,134.9	
3	54	174.36	4,872.5	
4	130	221.69	2,575.3	
5	364	153.71	639.5	
6	398	193.50	737.2	
7	10,380	75.00	10.9	Upper Marker

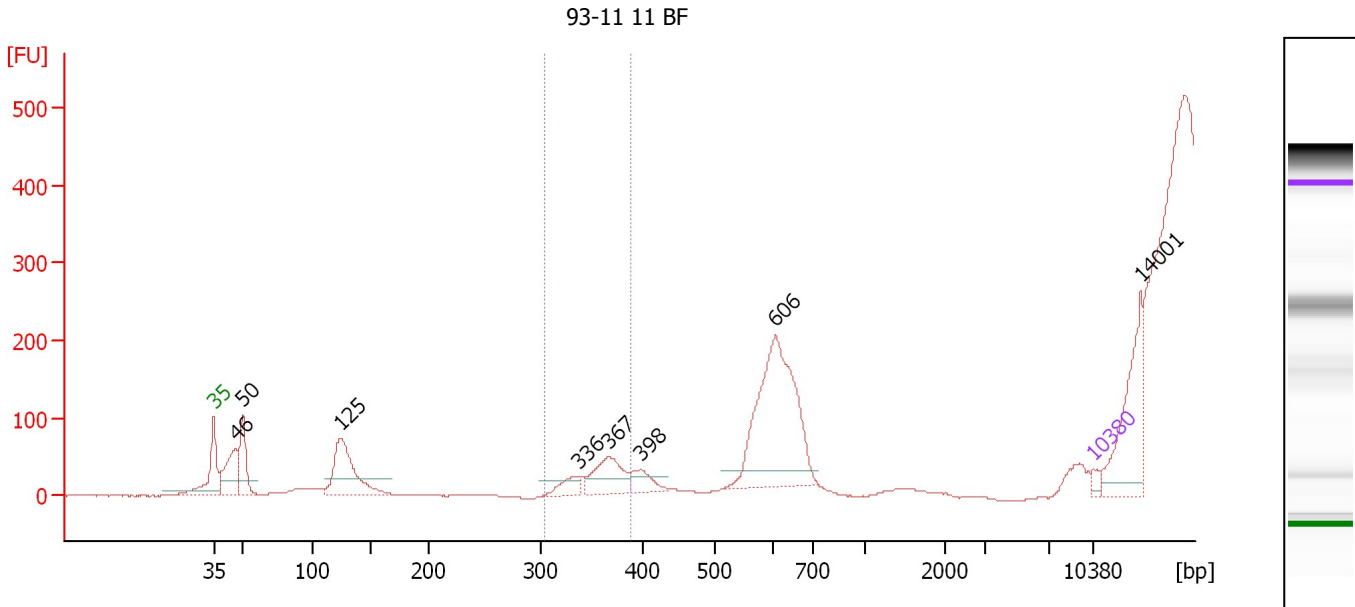
**Region table for sample 3 : 93-11 11 1mm**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
309	455	388	1,467.6	374.64	292.0	34	6.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : 93-11 11 BF**

Height Threshold [FU] : 20

**Overall Results for sample 4 : 93-11 11 BF**

Number of peaks found: 8                      Corr. Area 1: 0.0  
 Noise: 0.4

**Peak table for sample 4 : 93-11 11 BF**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	1,049.01	34,380.2	
3	50	887.26	26,837.4	
4	125	1,703.92	20,677.9	
5	336	311.79	1,405.6	
6	367	803.06	3,318.4	
7	398	326.82	1,243.2	
8	606	3,125.10	7,816.8	
9	10,380	75.00	10.9	Upper Marker
10	14,001	0.00	0.0	

**Region table for sample 4 : 93-11 11 BF**

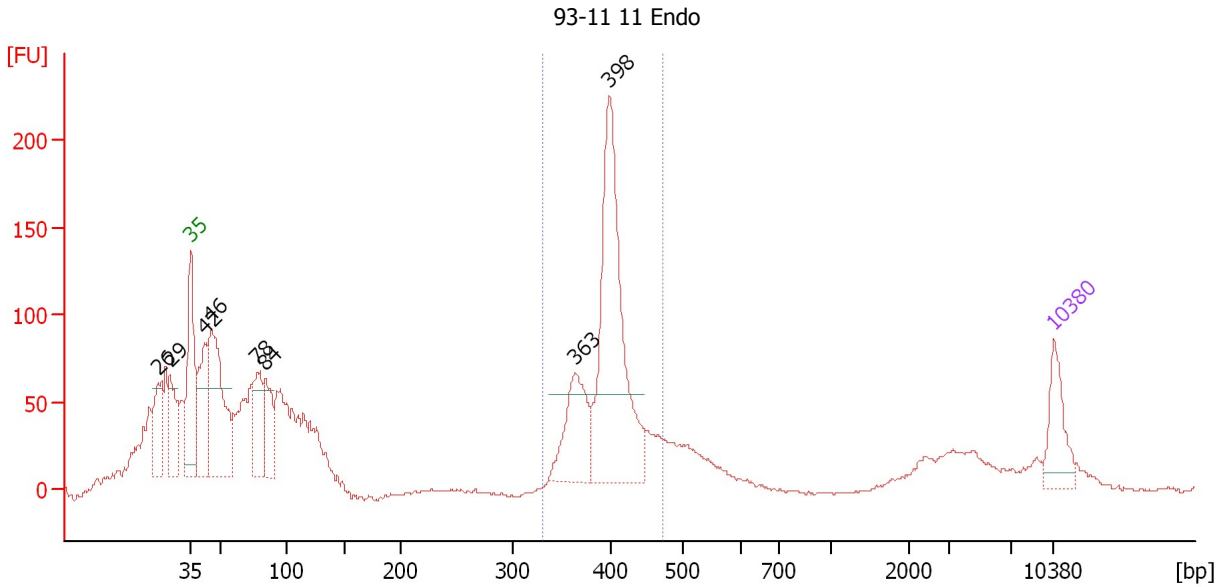
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
303	388	0	0.0	0.00	0.0	0	0.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : 93-11 11 Endo**

Height Threshold [FU] : 50

**Overall Results for sample 5 : 93-11 11 Endo**

Number of peaks found: 8                      Corr. Area 1: 804.7  
 Noise: 0.9

**Peak table for sample 5 : 93-11 11 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	26	0.00	0.0	
2	29	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	42	215.46	7,722.8	
5	46	425.69	14,094.9	
6	78	155.58	3,030.3	
7	84	134.30	2,423.1	
8	363	189.34	789.5	
9	398	580.72	2,210.3	
10	10,380	75.00	10.9	Upper Marker

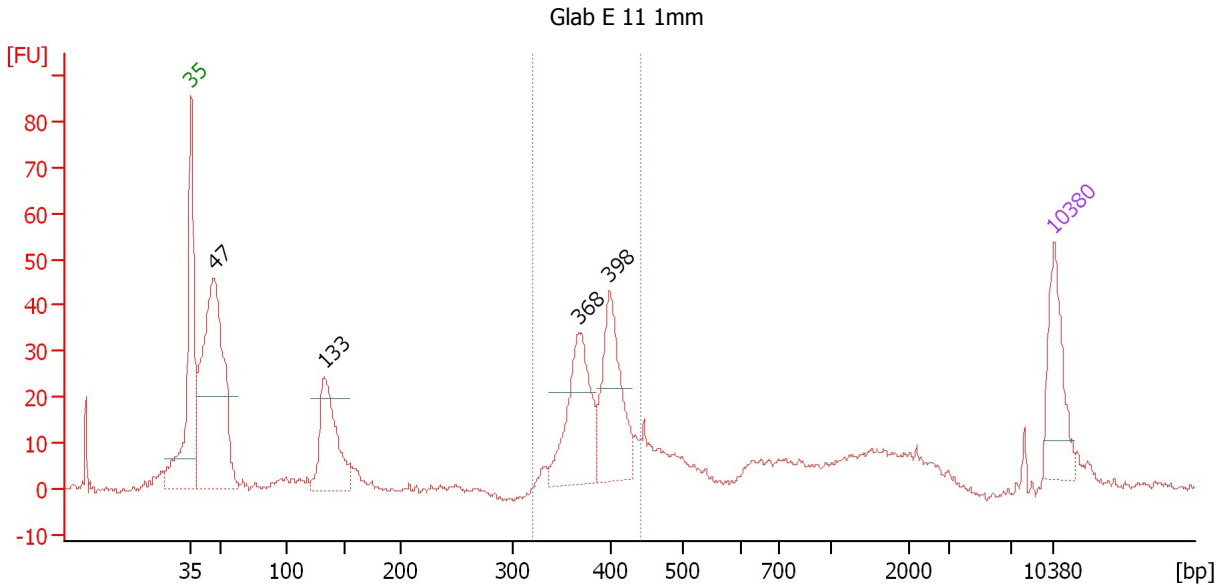
**Region table for sample 5 : 93-11 11 Endo**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
332	471	399	3,154.3	826.55	804.7	29	6.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : Glab E 11 1mm**

Height Threshold [FU] : 20

**Overall Results for sample 6 : Glab E 11 1mm**

Number of peaks found: 4                      Corr. Area 1: 223.0  
 Noise: 0.6

**Peak table for sample 6 : Glab E 11 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	525.87	16,921.0	
3	133	174.02	1,987.6	
4	368	170.21	701.7	
5	398	163.46	622.0	
6	10,380	75.00	10.9	Upper Marker

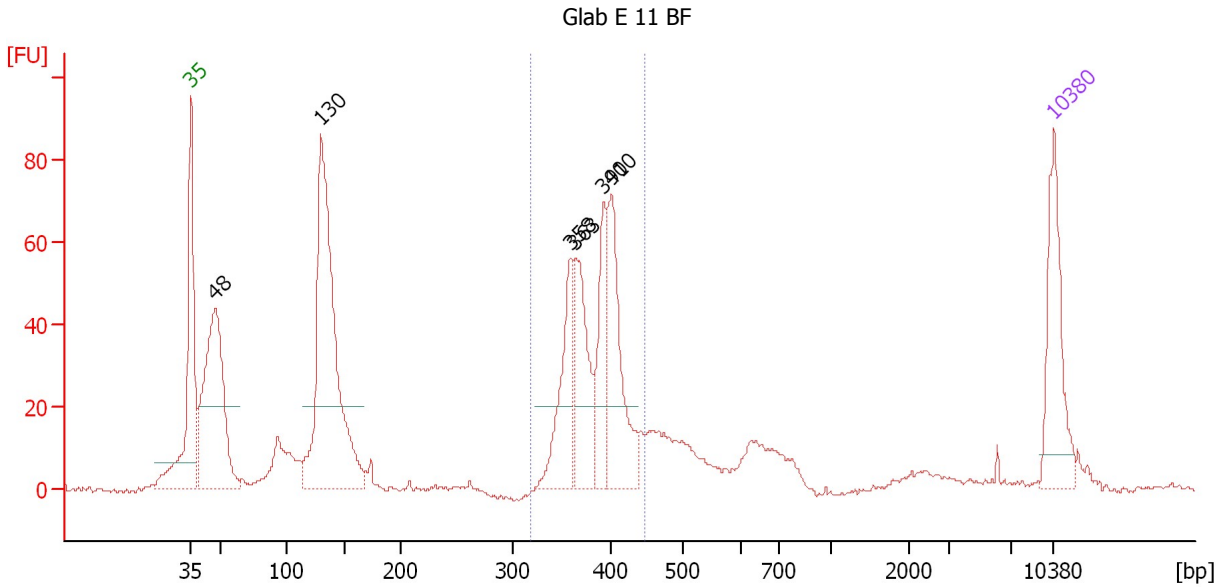
**Region table for sample 6 : Glab E 11 1mm**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
321	441	385	1,512.9	383.09	223.0	29	6.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : Glab E 11 BF**

Height Threshold [FU] : 20

**Overall Results for sample 7 : Glab E 11 BF**

Number of peaks found: 6                      Corr. Area 1: 394.9  
 Noise: 0.6

**Peak table for sample 7 : Glab E 11 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	288.55	9,187.2	
3	130	421.52	4,928.4	
4	358	96.47	407.7	
5	363	109.94	458.8	
6	391	77.97	301.9	
7	400	128.29	485.9	
8	10,380	75.00	10.9	Upper Marker

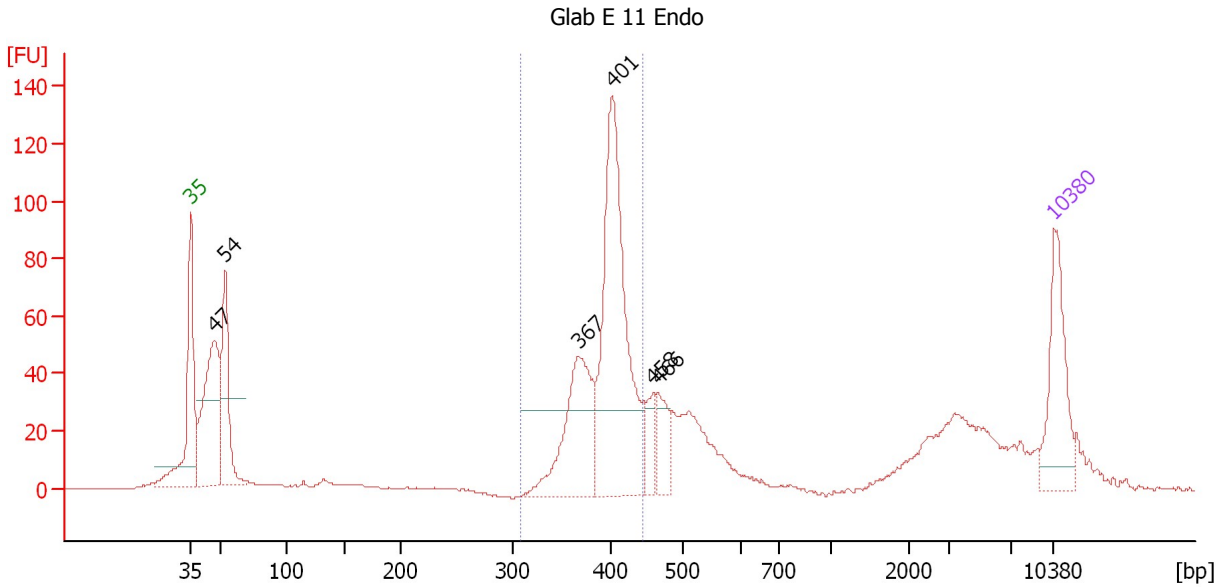
**Region table for sample 7 : Glab E 11 BF**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
319	448	384	1,709.2	431.26	394.9	35	6.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : Glab E 11 Endo**

Height Threshold [FU] : 30

**Overall Results for sample 8 : Glab E 11 Endo**

Number of peaks found: 6                      Corr. Area 1: 519.4  
 Noise: 0.3

**Peak table for sample 8 : Glab E 11 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	214.86	6,902.4	
3	54	131.89	3,688.9	
4	367	158.24	653.2	
5	401	330.85	1,251.4	
6	458	31.50	104.2	
7	466	38.25	124.3	
8	10,380	75.00	10.9	Upper Marker

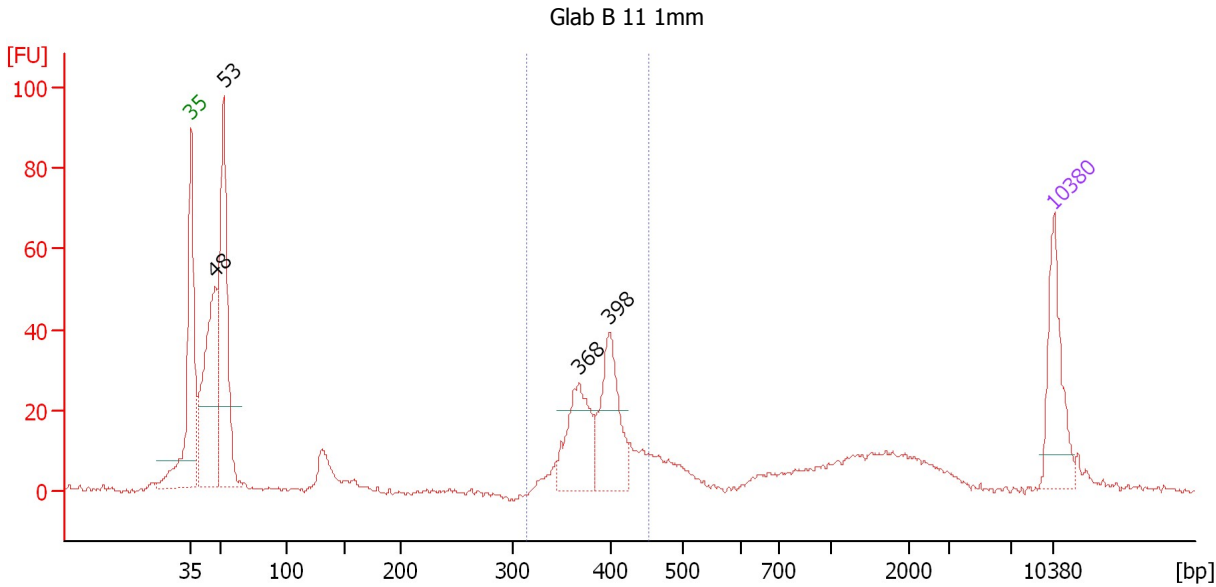
**Region table for sample 8 : Glab E 11 Endo**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
308	446	395	1,754.5	456.04	519.4	41	6.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : Glab B 11 1mm**

Height Threshold [FU] : 20

**Overall Results for sample 9 : Glab B 11 1mm**

Number of peaks found: 4                      Corr. Area 1: 200.2  
 Noise: 0.5

**Peak table for sample 9 : Glab B 11 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	284.62	9,023.4	
3	53	317.53	9,092.6	
4	368	117.75	485.4	
5	398	128.46	488.9	
6	10,380	75.00	10.9	Upper Marker

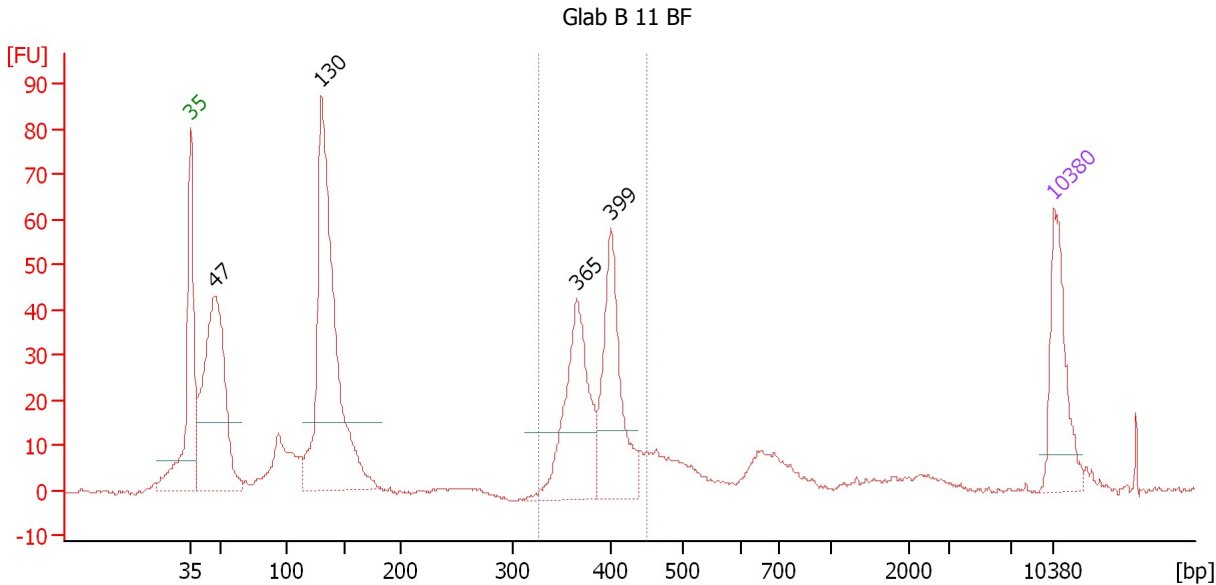
**Region table for sample 9 : Glab B 11 1mm**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
315	453	388	1,141.8	290.88	200.2	27	7.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : Glab B 11 BF**

Height Threshold [FU] : 15

**Overall Results for sample 10 : Glab B 11 BF**

Number of peaks found: 4                      Corr. Area 1: 245.2  
 Noise: 0.4

**Peak table for sample 10 : Glab B 11 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	372.90	11,930.9	
3	130	494.82	5,767.6	
4	365	184.65	766.8	
5	399	164.99	626.0	
6	10,380	75.00	10.9	Upper Marker

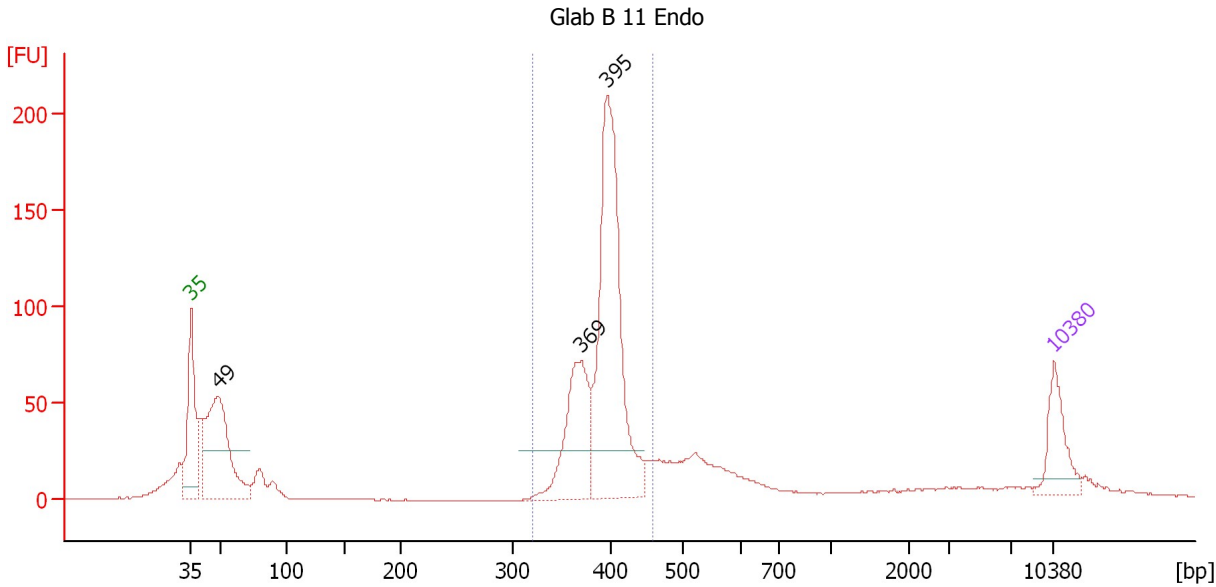
**Region table for sample 10 : Glab B 11 BF**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
327	450	386	1,299.8	330.13	245.2	28	6.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 11 : Glab B 11 Endo**

Height Threshold [FU] : 25

**Overall Results for sample 11 : Glab B 11 Endo**

Number of peaks found: 3                      Corr. Area 1: 771.8  
 Noise: 0.3

**Peak table for sample 11 : Glab B 11 Endo**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	419.98	12,972.0	
3	369	258.74	1,061.9	
4	395	608.13	2,332.5	
5	10,380	75.00	10.9	Upper Marker

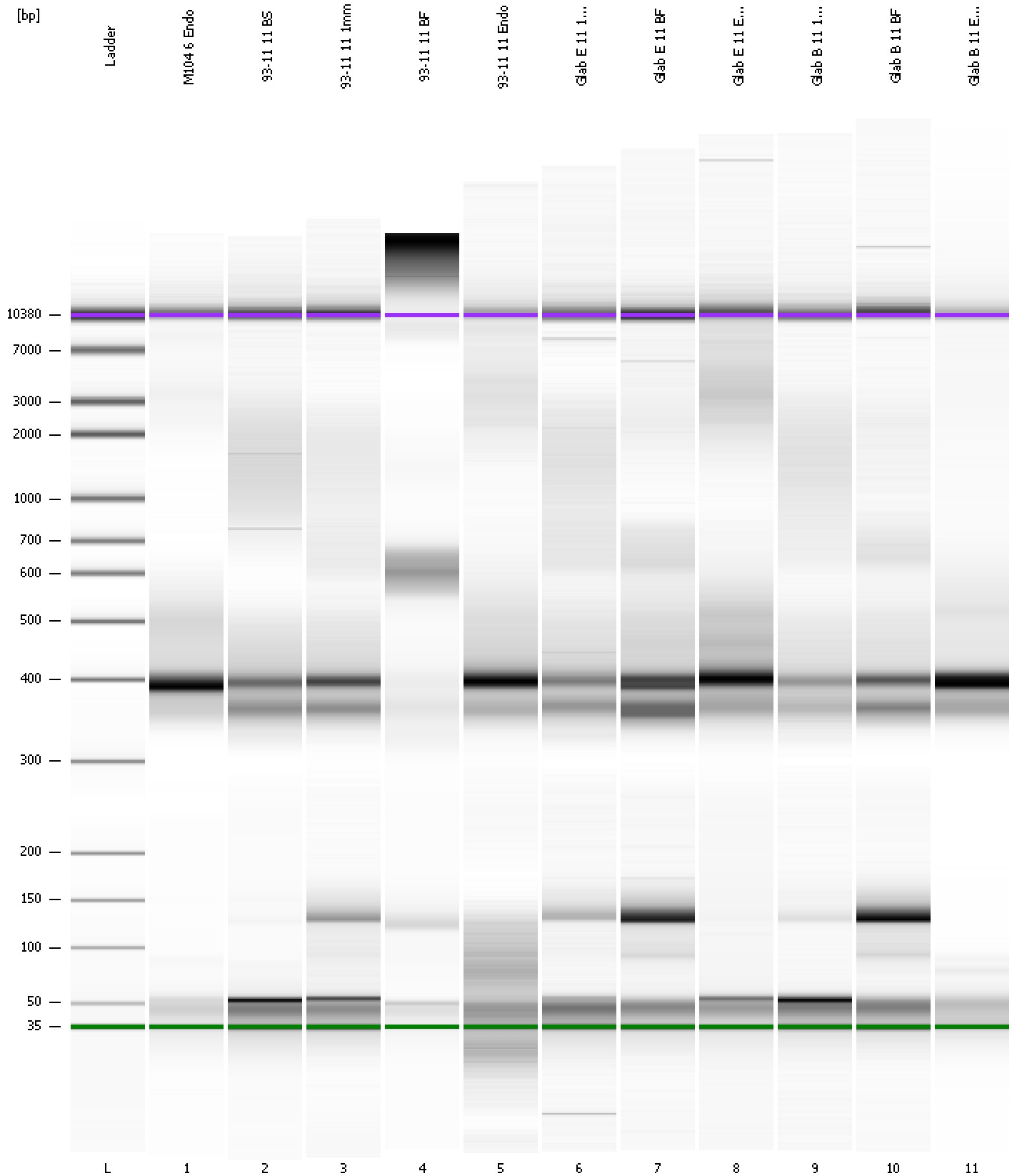
**Region table for sample 11 : Glab B 11 Endo**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
320	460	392	3,445.8	889.78	771.8	51	6.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
Modified: 7/12/2013 3:15:58 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_002.xad

Created: 7/12/2013 2:33:37 PM  
 Modified: 7/12/2013 3:15:58 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		7/12/2013 3:14:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-12\2013-07-12_002.xad)		Instrument	Run		7/12/2013 2:33:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/12/2013 2:33:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/12/2013 2:33:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/12/2013 2:33:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/12/2013 2:33:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/12/2013 2:33:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/12/2013 2:33:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1