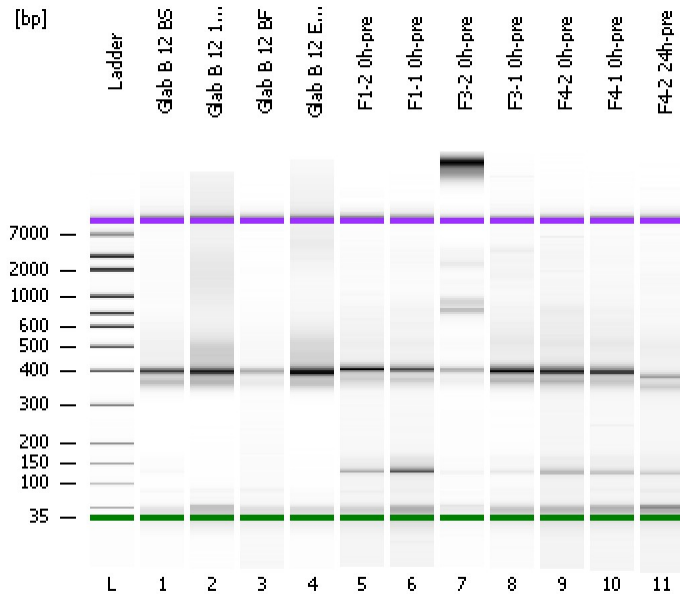


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
Modified: 6/12/2013 11:00:13 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

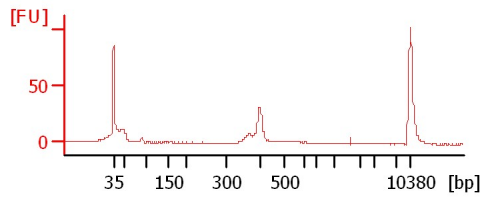
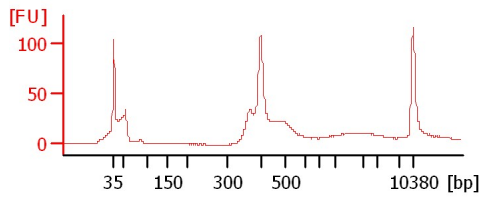
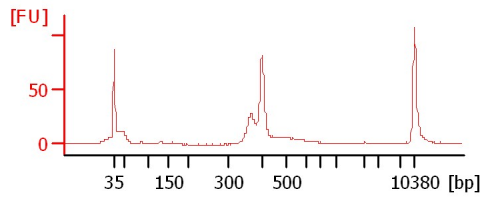
Chip Information:

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

**Glab B 12 BS**

**Glab B 12 1mm**

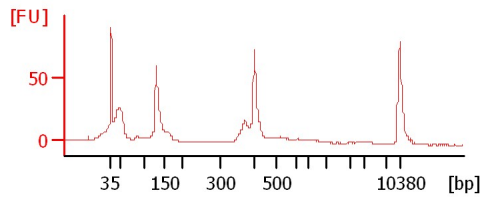
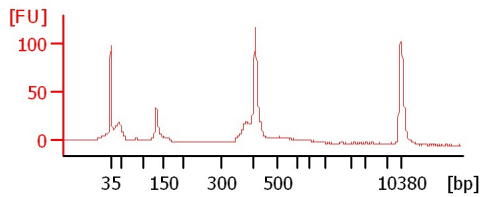
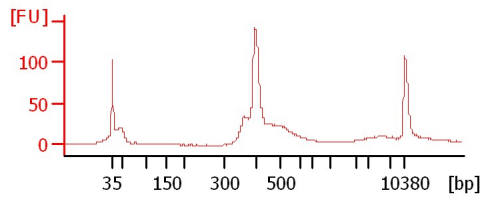
**Glab B 12 BF**



**Glab B 12 Endo**

**F1-2 0h-pre**

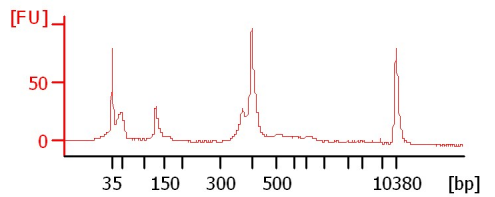
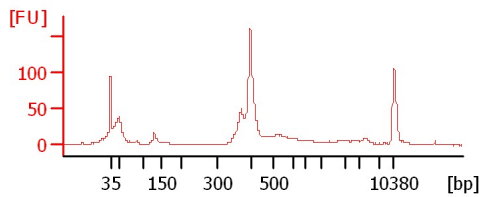
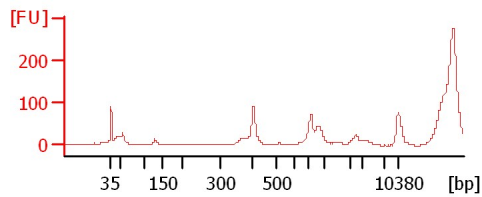
**F1-1 0h-pre**



**F3-2 0h-pre**

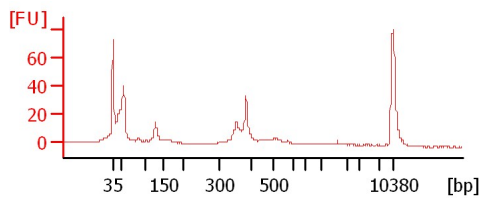
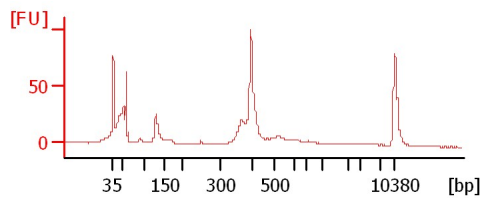
**F3-1 0h-pre**

**F4-2 0h-pre**



**F4-1 0h-pre**

**F4-2 24h-pre**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
Modified: 6/12/2013 11:00:13 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Glab B 12 BS		<input type="checkbox"/>	✓			
Glab B 12 1mm		<input type="checkbox"/>	✓			
Glab B 12 BF		<input type="checkbox"/>	✓			
Glab B 12 Endo		<input type="checkbox"/>	✓			
F1-2 0h-pre		<input type="checkbox"/>	✓			
F1-1 0h-pre		<input type="checkbox"/>	✓			
F3-2 0h-pre		<input type="checkbox"/>	✓			
F3-1 0h-pre		<input type="checkbox"/>	✓			
F4-2 0h-pre		<input type="checkbox"/>	✓			
F4-1 0h-pre		<input type="checkbox"/>	✓			
F4-2 24h-pre		<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\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
Modified: 6/12/2013 11:00:13 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

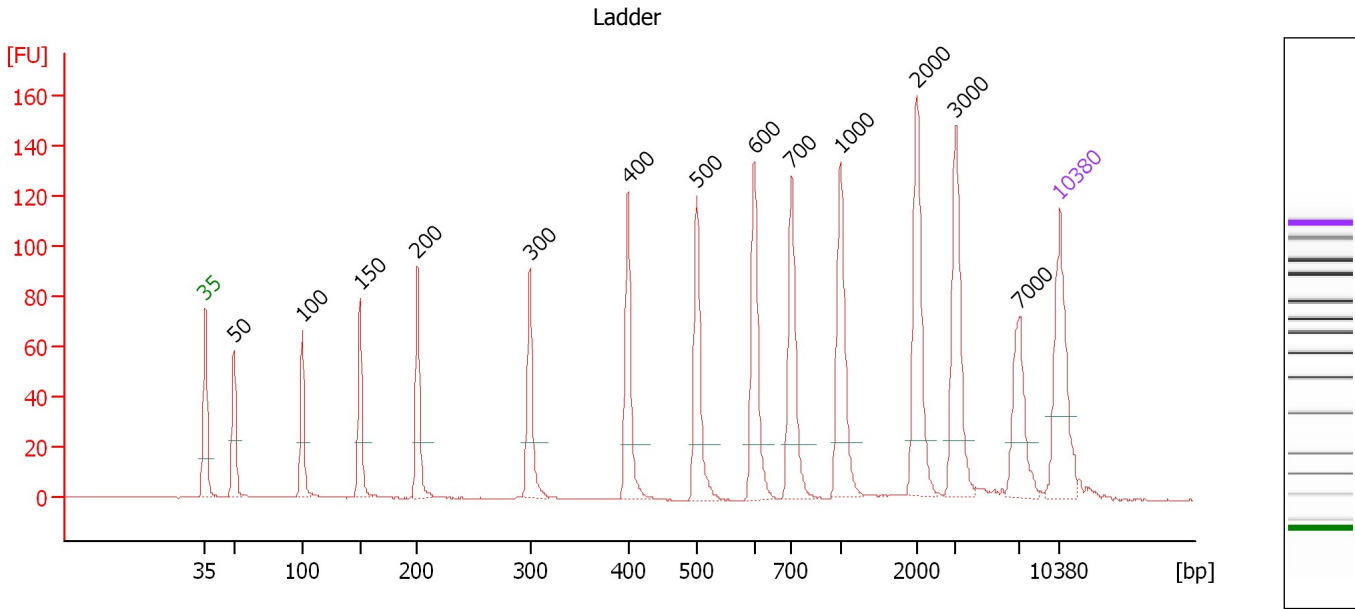
**Ladder**

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\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

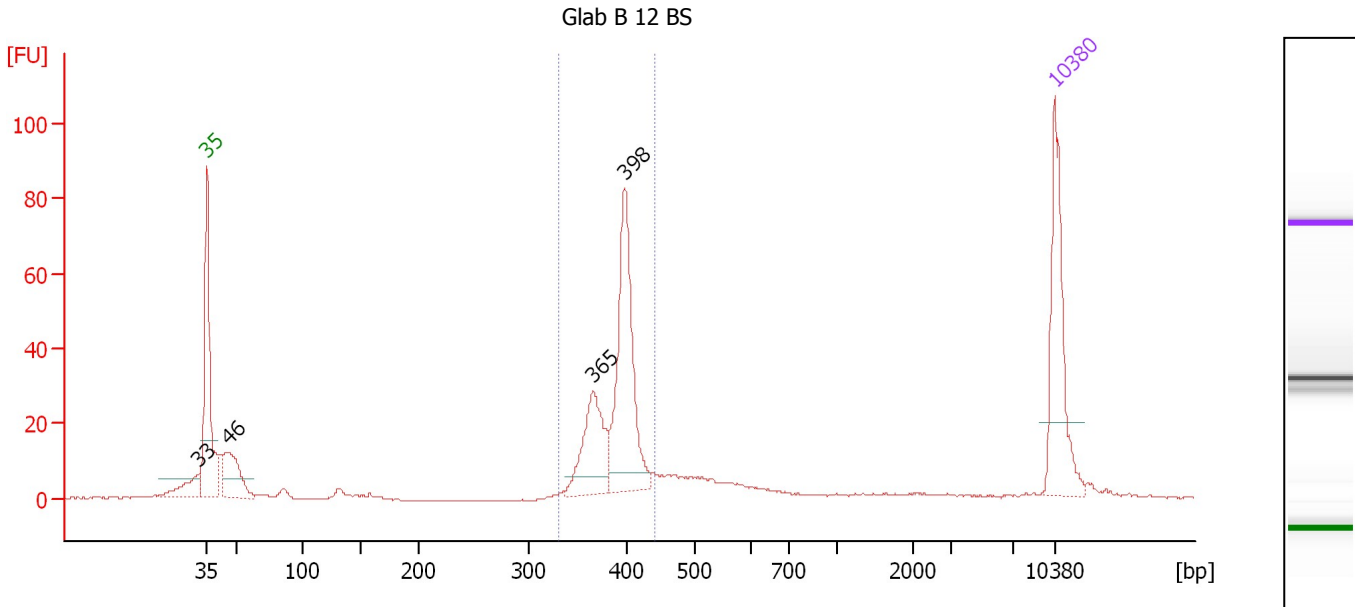
**Peak table for Ladder**

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\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Glab B 12 BS**

Number of peaks found: 4                      Corr. Area 1: 246.1  
 Noise: 0.1

**Peak table for sample 1 : Glab B 12 BS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	46	65.96	2,189.2	
4	365	79.83	331.0	
5	398	153.95	586.4	
6	10,380	75.00	10.9	Upper Marker

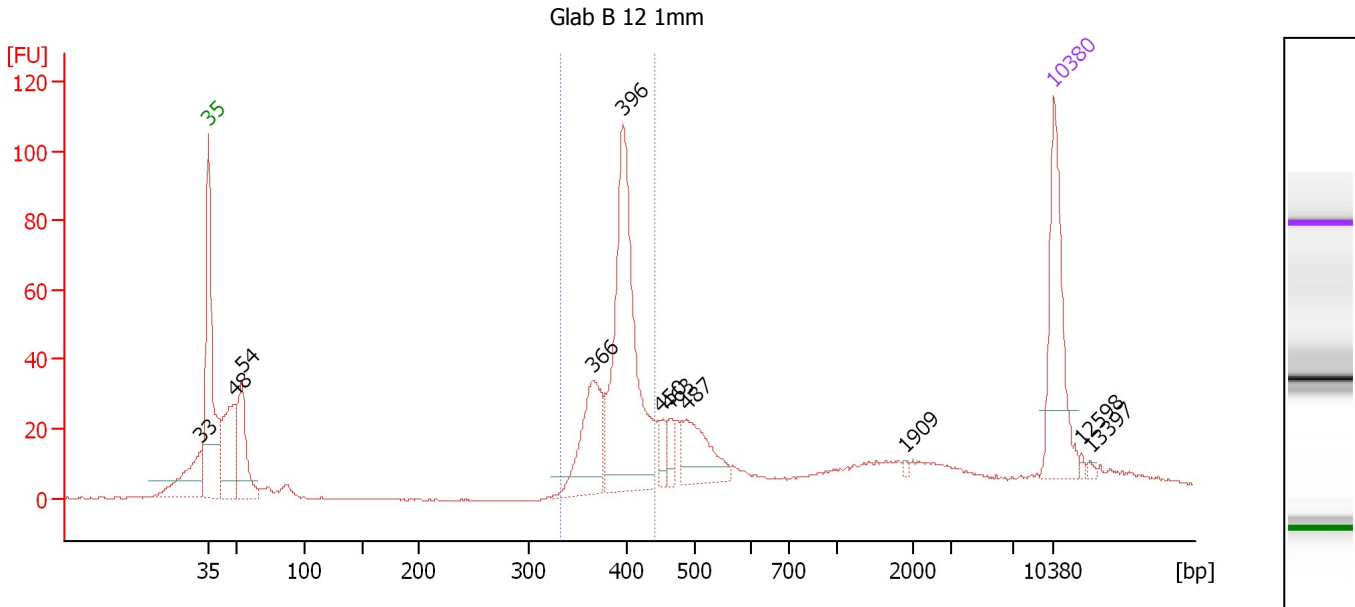
**Region table for sample 1 : Glab B 12 BS**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
330	443	390	976.2	250.50	246.1	59	5.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Glab B 12 1mm**

Number of peaks found: 11                      Corr. Area 1: 360.9  
 Noise: 0.2

**Peak table for sample 2 : Glab B 12 1mm**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	98.04	3,064.2	
4	54	78.81	2,220.4	
5	366	85.01	352.3	
6	396	239.41	915.1	
7	450	15.27	51.4	
8	463	13.31	43.6	
9	487	54.94	170.8	
10	1,909	1.79	1.4	
11	10,380	75.00	10.9	Upper Marker
12	12,598	0.00	0.0	
13	13,397	0.00	0.0	

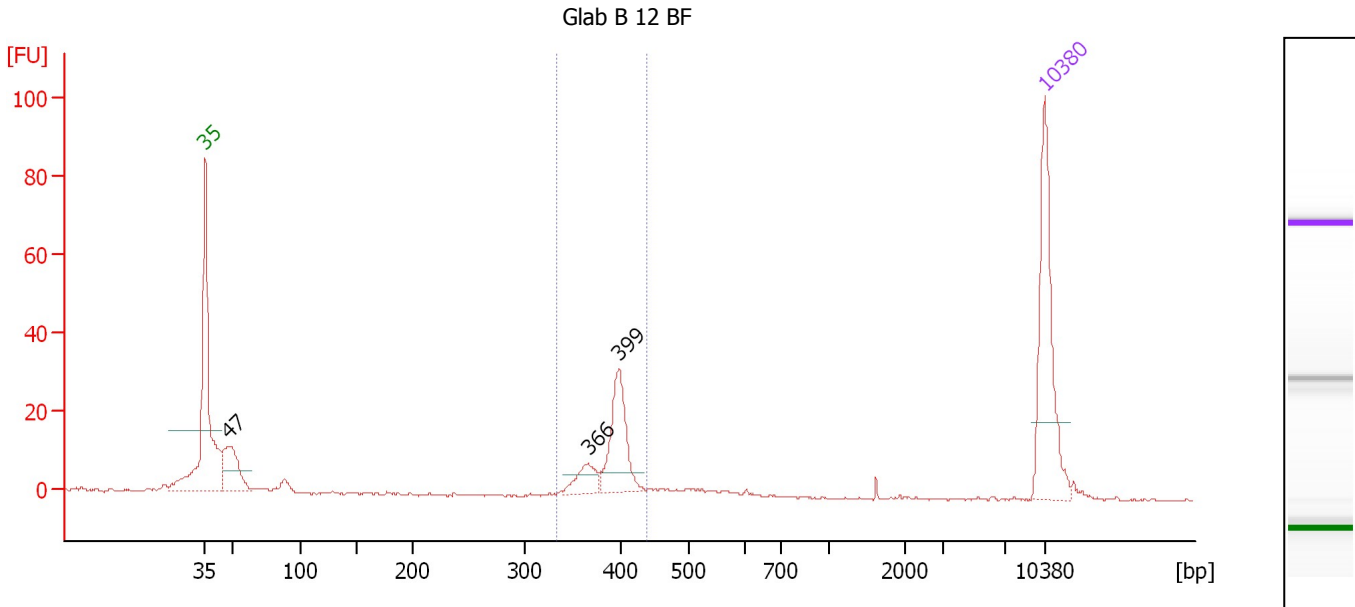
**Region table for sample 2 : Glab B 12 1mm**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
332	442	392	1,241.7	320.83	360.9	42	5.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Glab B 12 BF**

Number of peaks found: 3                      Corr. Area 1: 86.7  
 Noise: 0.3

**Peak table for sample 3 : Glab B 12 BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	56.94	1,818.2	
3	366	21.66	89.5	
4	399	62.08	236.0	
5	10,380	75.00	10.9	Upper Marker

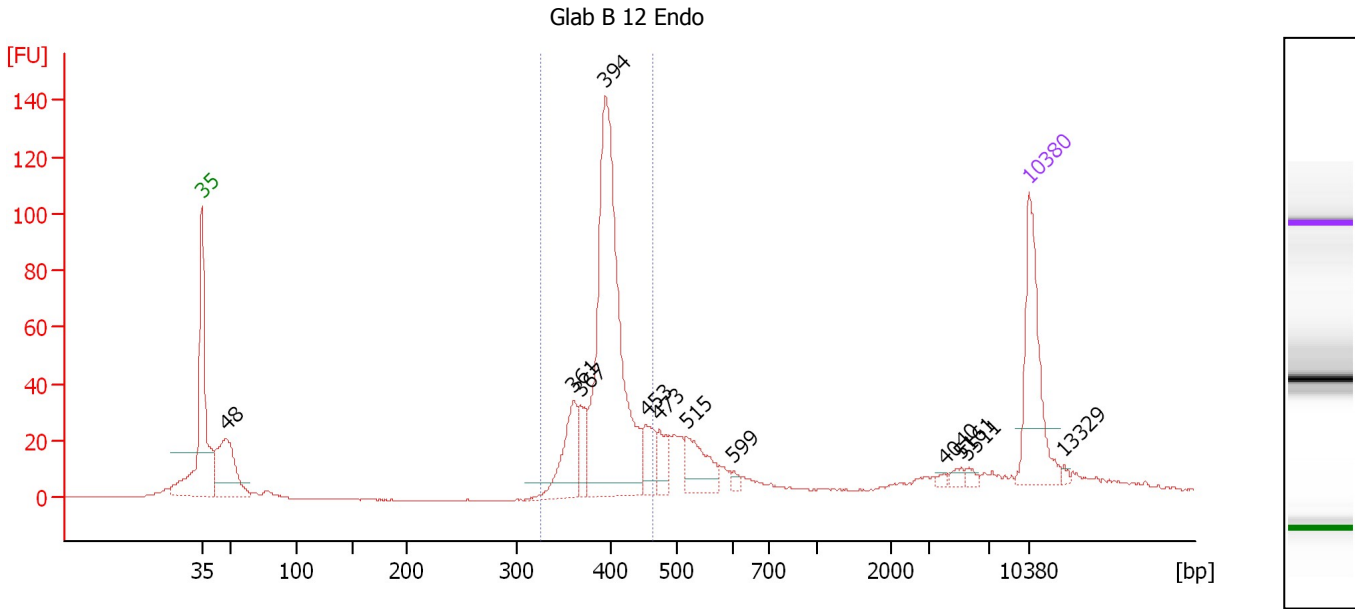
**Region table for sample 3 : Glab B 12 BF**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
334	440	391	337.0	86.86	86.7	58	4.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Glab B 12 Endo**

Number of peaks found: 12                      Corr. Area 1: 519.5  
 Noise: 0.2

**Peak table for sample 4 : Glab B 12 Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	106.11	3,355.1	
3	361	61.08	256.7	
4	367	29.27	120.8	
5	394	339.94	1,306.5	
6	453	30.78	103.0	
7	473	21.26	68.2	
8	515	45.27	133.1	
9	599	4.99	12.6	
10	4,040	2.68	1.0	
11	5,161	4.40	1.3	
12	5,511	4.00	1.1	
13	10,380	75.00	10.9	Upper Marker
14	13,329	0.00	0.0	

**Region table for sample 4 : Glab B 12 Endo**

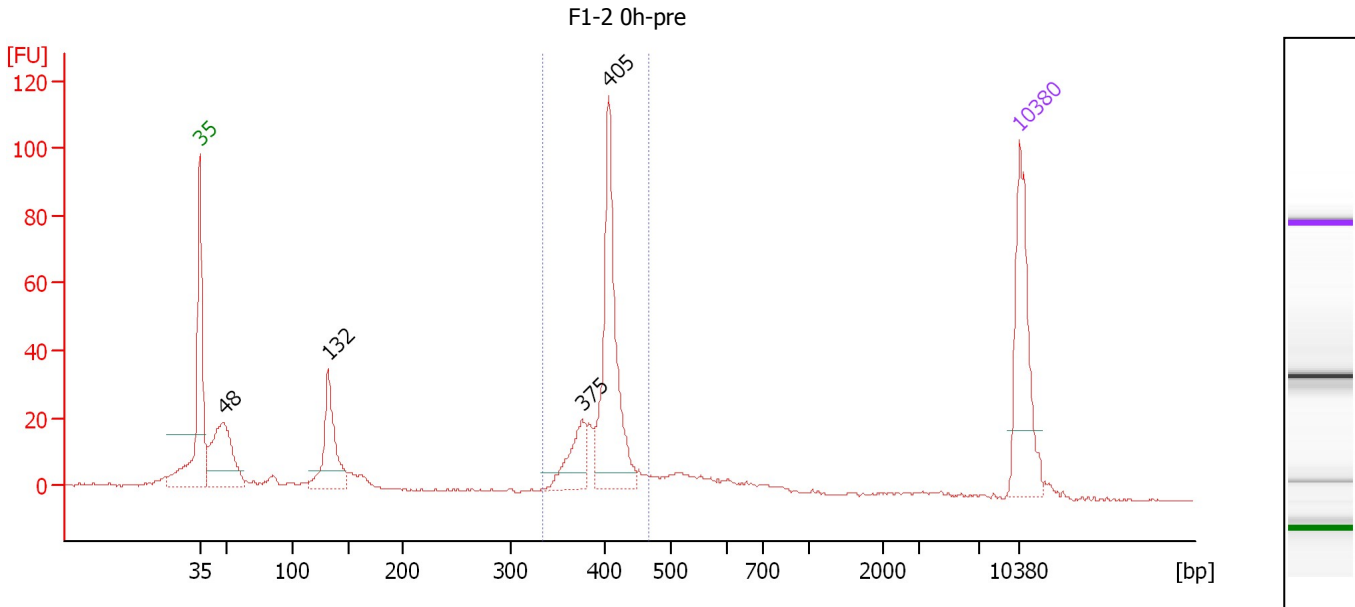
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
326	464	397	1,688.5	441.10	519.5	60	6.4	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : F1-2 0h-pre**

Number of peaks found: 4                      Corr. Area 1: 262.7  
 Noise: 0.3

**Peak table for sample 5 : F1-2 0h-pre**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	120.24	3,792.5	
3	132	88.99	1,022.9	
4	375	42.47	171.4	
5	405	157.27	587.8	
6	10,380	75.00	10.9	Upper Marker

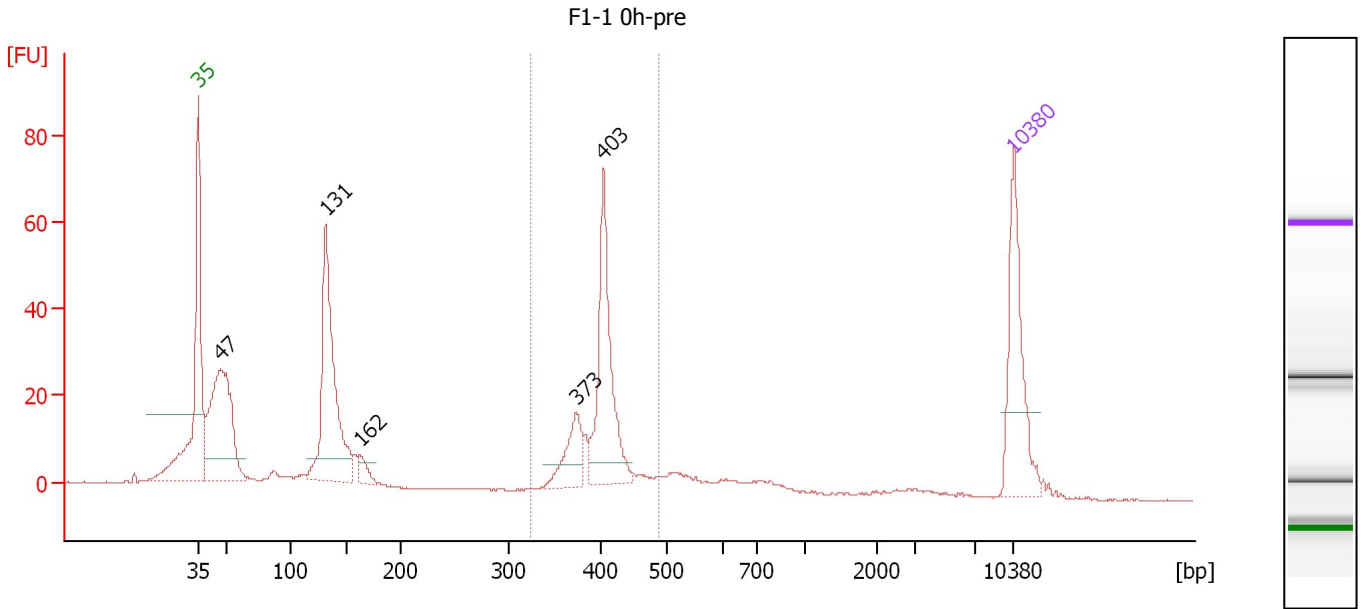
**Region table for sample 5 : F1-2 0h-pre**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	467	401	877.4	231.52	262.7	46	5.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : F1-1 0h-pre**

Number of peaks found: 5                      Corr. Area 1: 181.5  
 Noise: 0.2

**Peak table for sample 6 : F1-1 0h-pre**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	224.31	7,240.5	
3	131	221.62	2,554.5	
4	162	17.87	166.7	
5	373	43.20	175.5	
6	403	132.67	498.9	
7	10,380	75.00	10.9	Upper Marker

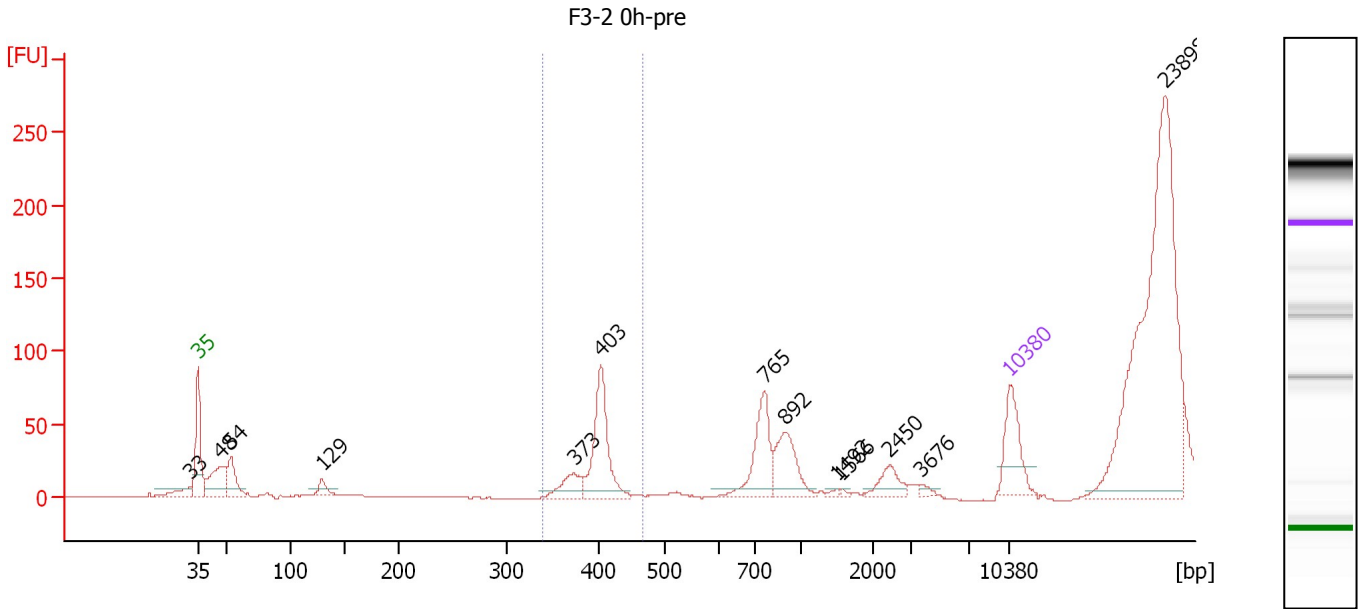
**Region table for sample 6 : F1-1 0h-pre**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
324	487	401	807.3	212.96	181.5	31	6.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : F3-2 0h-pre**

Number of peaks found: 13                      Corr. Area 1: 77.7  
 Noise: 0.2

**Peak table for sample 7 : F3-2 0h-pre**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	33	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	118.81	3,782.1	
4	54	78.28	2,178.4	
5	129	25.44	299.4	
6	373	50.28	204.2	
7	403	175.22	659.6	
8	765	118.72	235.1	
9	892	95.32	161.8	
10	1,492	3.90	4.0	
11	1,566	2.91	2.8	
12	2,450	32.31	20.0	
13	3,676	6.86	2.8	
14	10,380	75.00	10.9	Upper Marker
15	23,898	0.00	0.0	

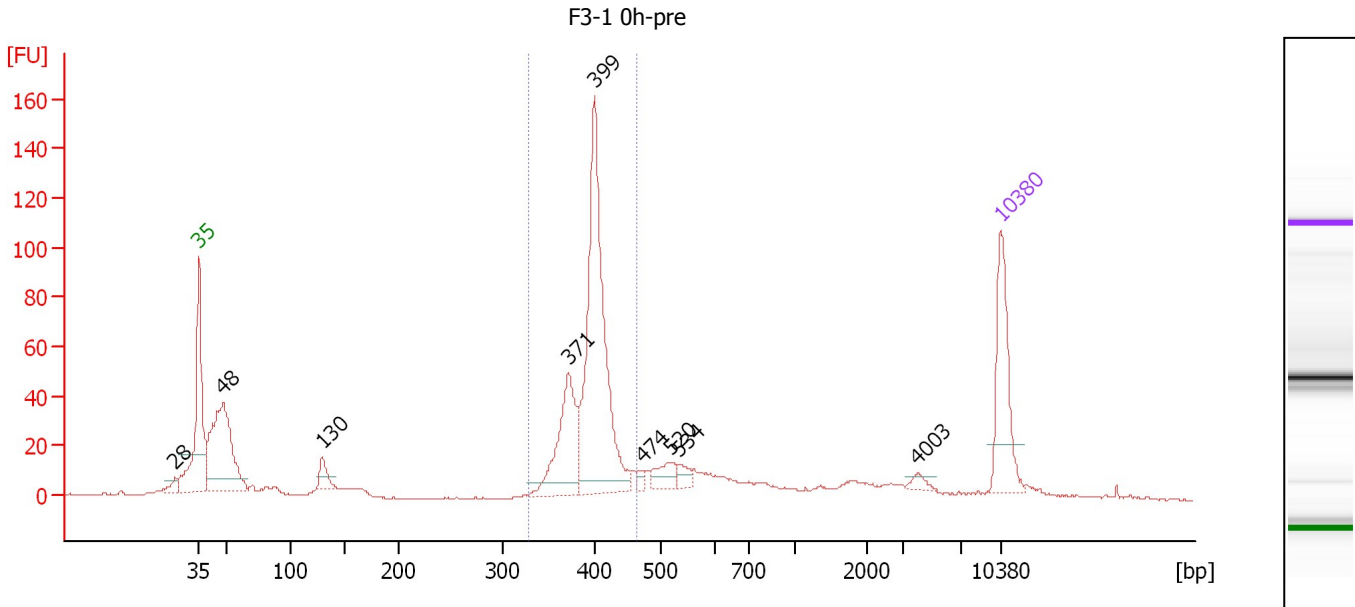
**Region table for sample 7 : F3-2 0h-pre**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
339	468	403	312.6	83.10	77.7	11	1.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : F3-1 0h-pre**

Number of peaks found: 9                      Corr. Area 1: 481.8  
 Noise: 0.3

**Peak table for sample 8 : F3-1 0h-pre**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	239.42	7,504.2	
4	130	24.85	290.5	
5	371	116.98	477.7	
6	399	323.58	1,229.3	
7	474	6.11	19.6	
8	520	23.35	68.0	
9	534	12.18	34.6	
10	4,003	5.97	2.3	
11	10,380	75.00	10.9	Upper Marker

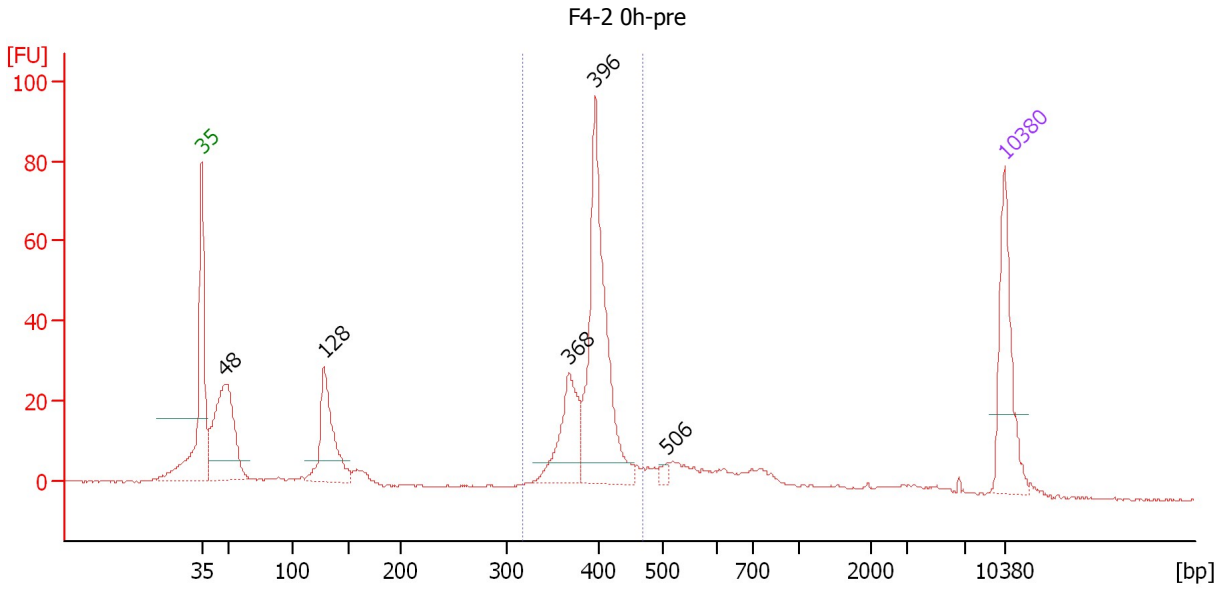
**Region table for sample 8 : F3-1 0h-pre**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
327	466	396	1,786.8	465.71	481.8	48	5.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : F4-2 0h-pre**

Number of peaks found: 5                      Corr. Area 1: 293.1  
 Noise: 0.2

**Peak table for sample 9 : F4-2 0h-pre**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	203.97	6,475.9	
3	128	124.55	1,469.8	
4	368	89.80	369.9	
5	396	245.98	940.6	
6	506	7.36	22.0	
7	10,380	75.00	10.9	Upper Marker

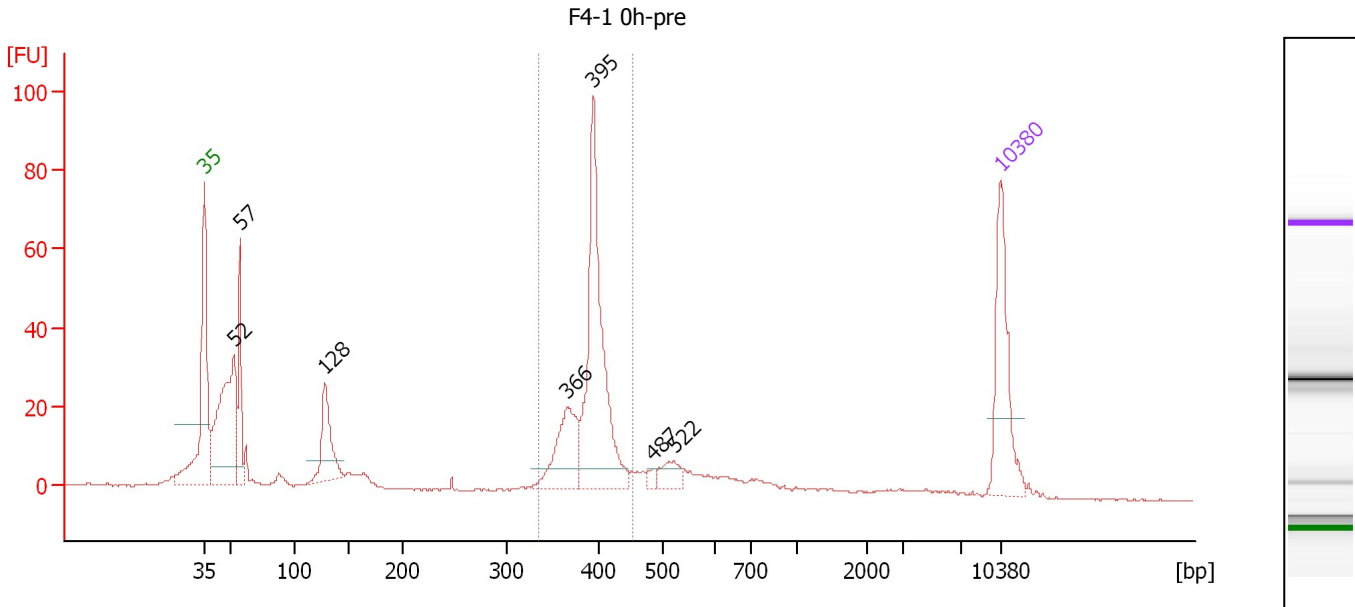
**Region table for sample 9 : F4-2 0h-pre**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
317	469	394	1,419.9	368.15	293.1	46	6.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : F4-1 0h-pre**

Number of peaks found: 7                      Corr. Area 1: 249.1  
 Noise: 0.3

**Peak table for sample 10 : F4-1 0h-pre**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	211.49	6,116.0	
3	57	70.26	1,867.3	
4	128	74.42	878.7	
5	366	77.00	318.4	
6	395	218.54	838.3	
7	487	6.21	19.3	
8	522	18.84	54.7	
9	10,380	75.00	10.9	Upper Marker

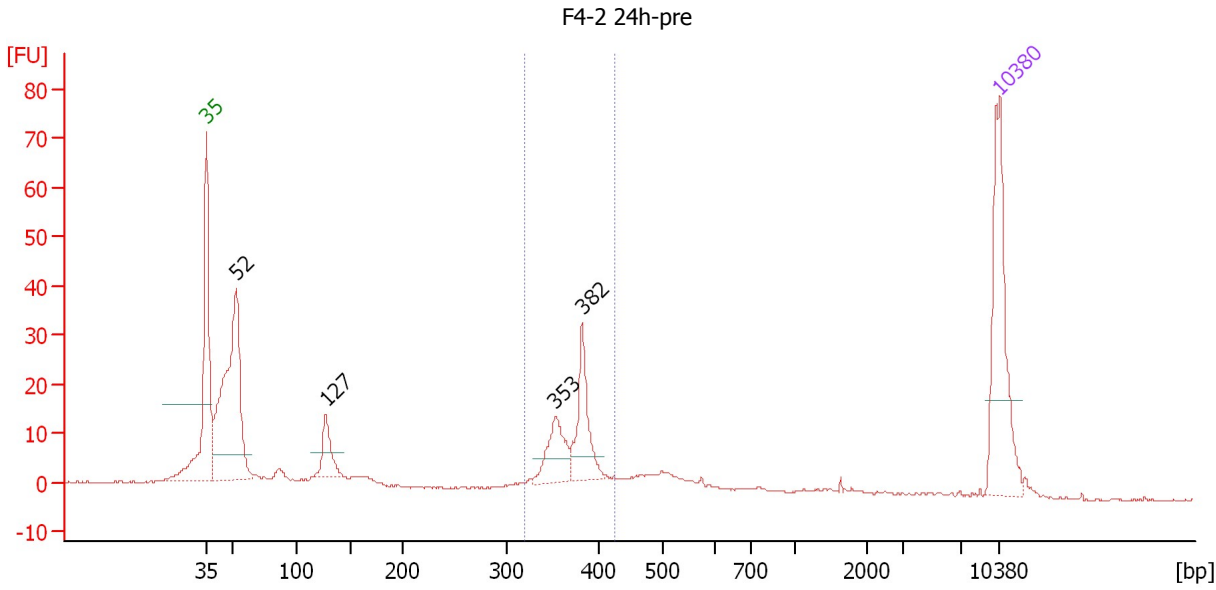
**Region table for sample 10 : F4-1 0h-pre**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
335	456	393	1,192.1	308.12	249.1	40	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : F4-2 24h-pre**

Number of peaks found: 4                      Corr. Area 1: 97.1  
 Noise: 0.2

**Peak table for sample 11 : F4-2 24h-pre**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	221.96	6,407.4	
3	127	33.03	393.1	
4	353	38.96	167.3	
5	382	49.66	196.9	
6	10,380	75.00	10.9	Upper Marker

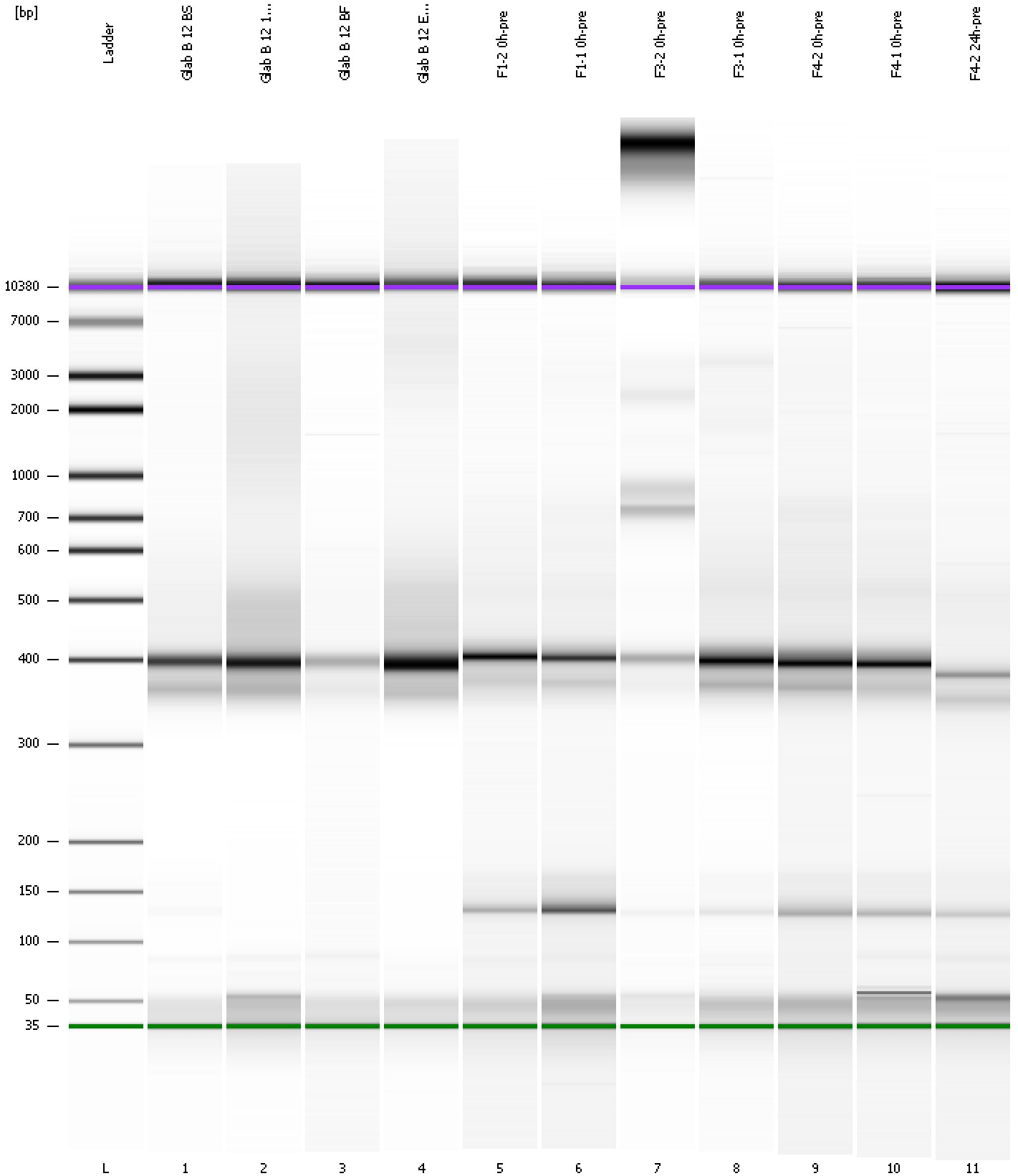
**Region table for sample 11 : F4-2 24h-pre**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
319	426	371	458.4	112.22	97.1	26	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
Modified: 6/12/2013 11:00:13 AM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_002.xad

Created: 6/12/2013 10:17:20 AM  
 Modified: 6/12/2013 11:00:13 AM

**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		6/12/2013 10:57:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-06-12\2013-06-12_002.xad)		Instrument	Run		6/12/2013 10:17:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/12/2013 10:17:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/12/2013 10:17:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/12/2013 10:17:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/12/2013 10:17:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/12/2013 10:17:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/12/2013 10:17:26 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1