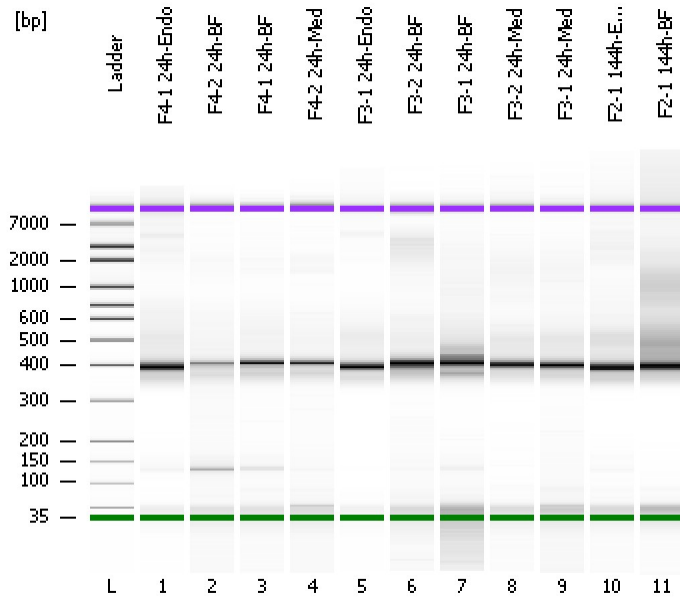


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
Modified: 6/12/2013 11:47:08 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

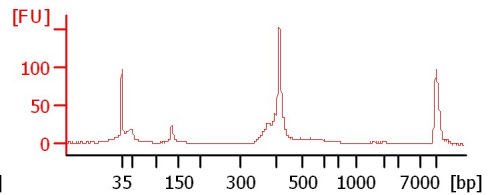
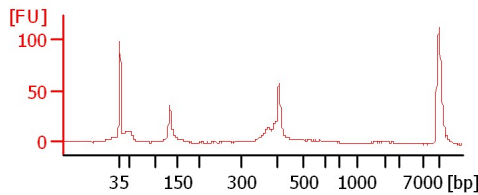
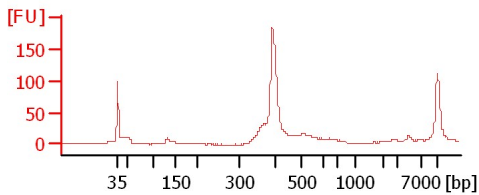
#### Chip Information:

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

F4-1 24h-Endo

F4-2 24h-BF

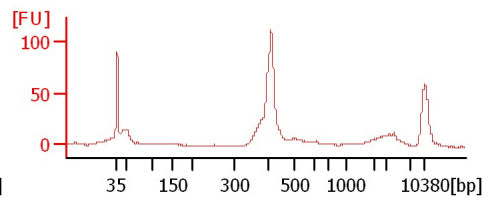
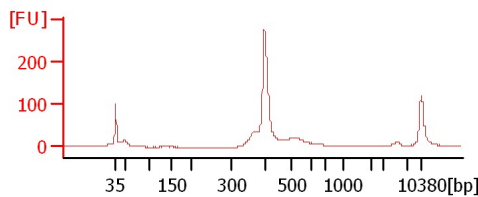
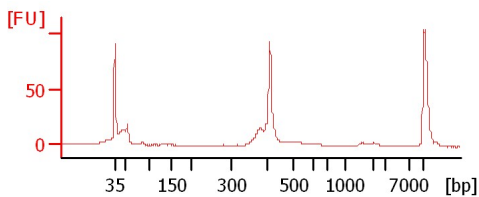
F4-1 24h-BF



F4-2 24h-Med

F3-1 24h-Endo

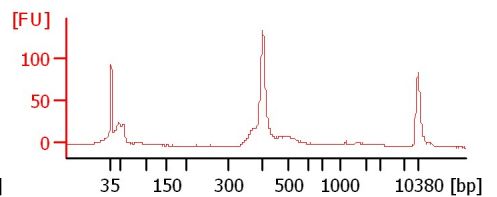
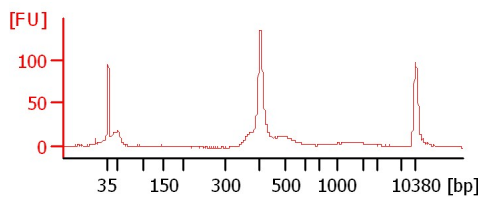
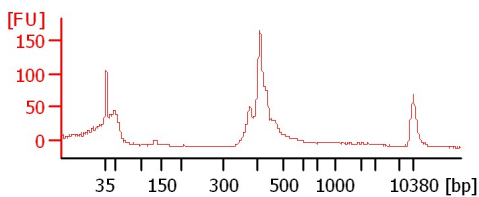
F3-2 24h-BF



F3-1 24h-BF

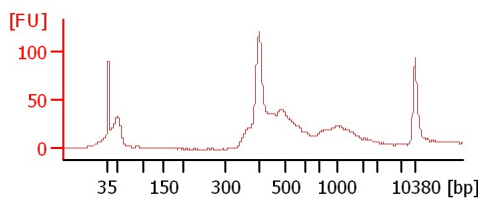
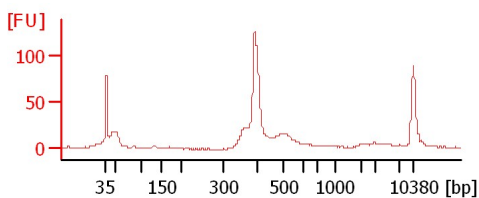
F3-2 24h-Med

F3-1 24h-Med



F2-1 144h-Endo

F2-1 144h-BF



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
F4-1 24h-Endo		<input type="checkbox"/>	✓			
F4-2 24h-BF		<input type="checkbox"/>	✓			
F4-1 24h-BF		<input type="checkbox"/>	✓			
F4-2 24h-Med		<input type="checkbox"/>	✓			
F3-1 24h-Endo		<input type="checkbox"/>	✓			
F3-2 24h-BF		<input type="checkbox"/>	✓			
F3-1 24h-BF		<input type="checkbox"/>	✓			
F3-2 24h-Med		<input type="checkbox"/>	✓			
F3-1 24h-Med		<input type="checkbox"/>	✓			
F2-1 144h-Endo		<input type="checkbox"/>	✓			
F2-1 144h-BF		<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\_003.xad

Created: 6/12/2013 11:06:11 AM  
Modified: 6/12/2013 11:47:08 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

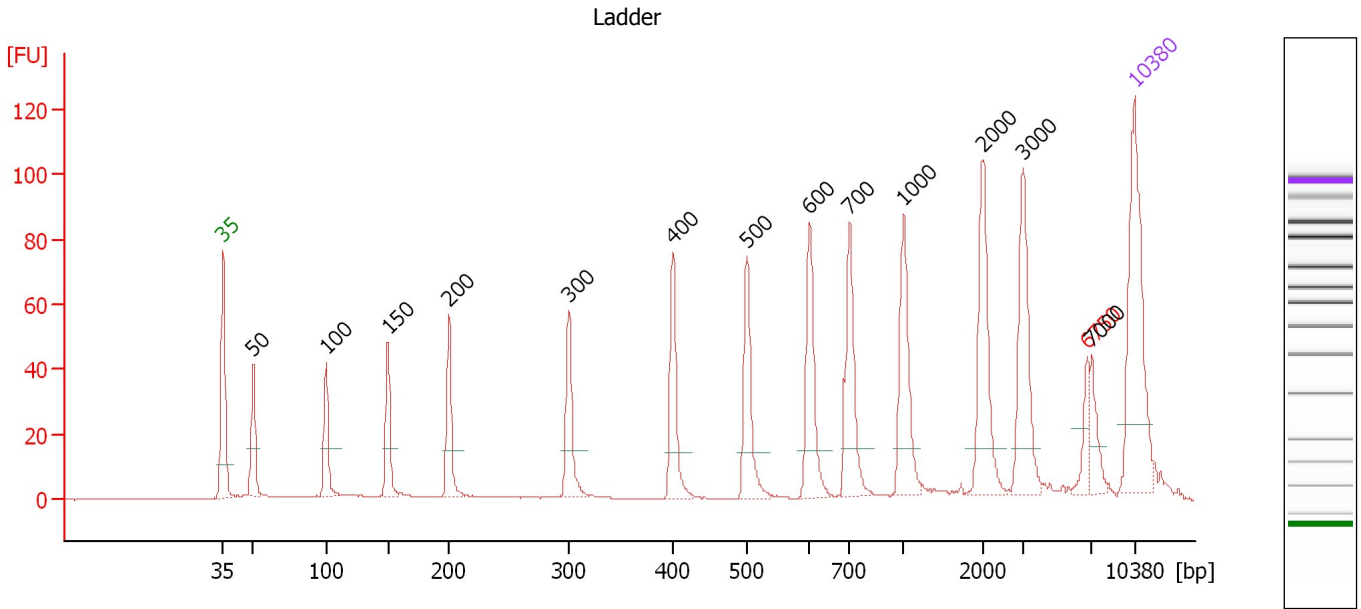
**Ladder**

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\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

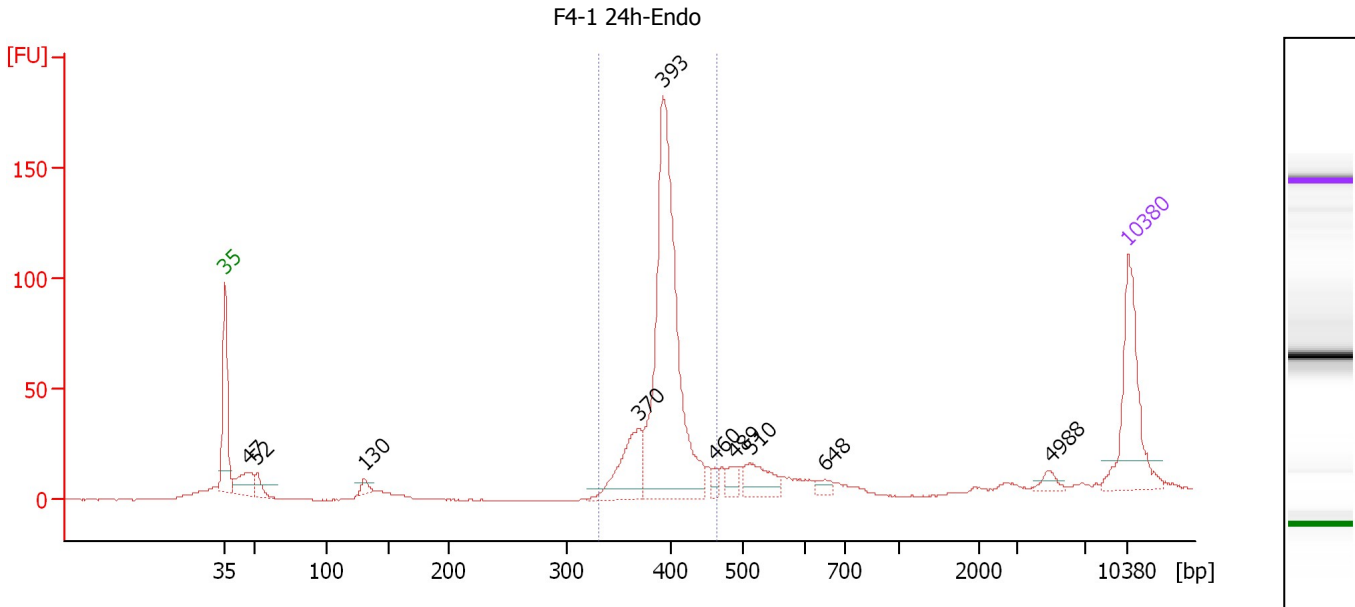
**Peak table for Ladder**

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	6,750	0.00	0.0	excluded peak
15	7,000	150.00	32.5	Ladder Peak
16	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\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : F4-1 24h-Endo**

Number of peaks found: 10      Corr. Area 1: 537.4  
 Noise: 0.2

**Peak table for sample 1 : F4-1 24h-Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	43.63	1,401.5	
3	52	17.45	508.1	
4	130	10.25	119.1	
5	370	72.19	295.7	
6	393	368.71	1,422.6	
7	460	7.33	24.1	
8	489	14.53	45.1	
9	510	34.09	101.2	
10	648	8.60	20.1	
11	4,988	7.21	2.2	
12	10,380	75.00	10.9	Upper Marker

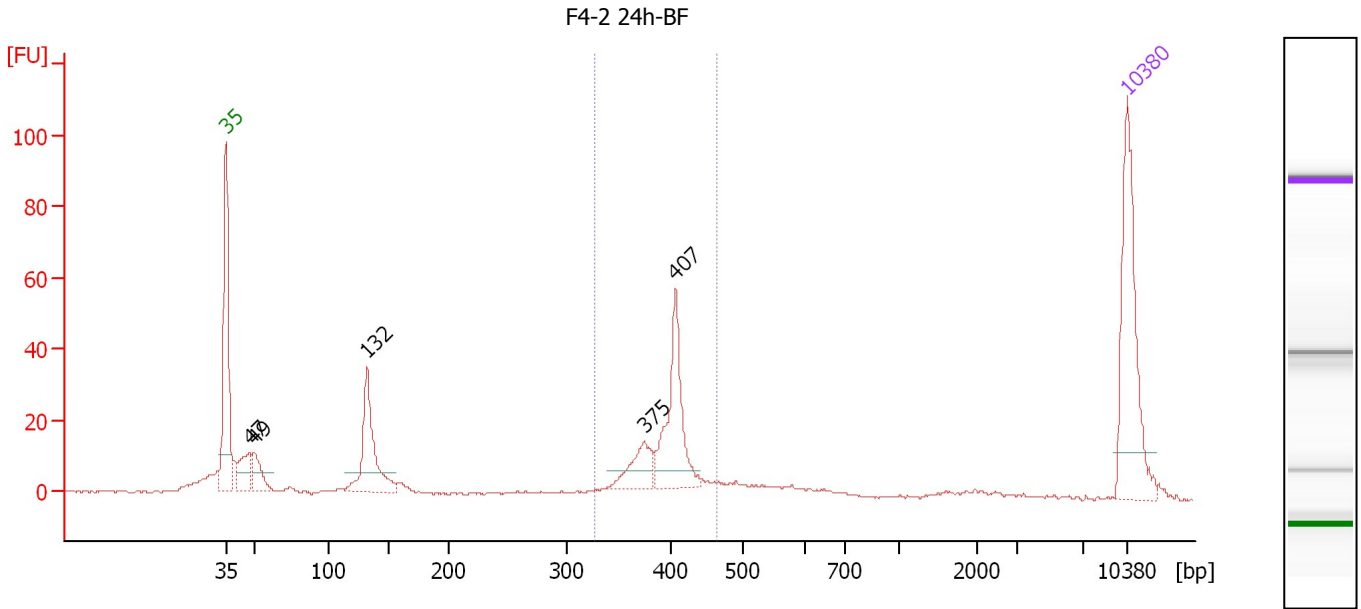
**Region table for sample 1 : F4-1 24h-Endo**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
330	464	395	1,632.8	425.05	537.4	70	5.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : F4-2 24h-BF**

Number of peaks found: 5                      Corr. Area 1: 155.6  
 Noise: 0.3

**Peak table for sample 2 : F4-2 24h-BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	30.87	990.9	
3	49	23.94	734.7	
4	132	81.58	936.8	
5	375	30.29	122.4	
6	407	74.80	278.3	
7	10,380	75.00	10.9	Upper Marker

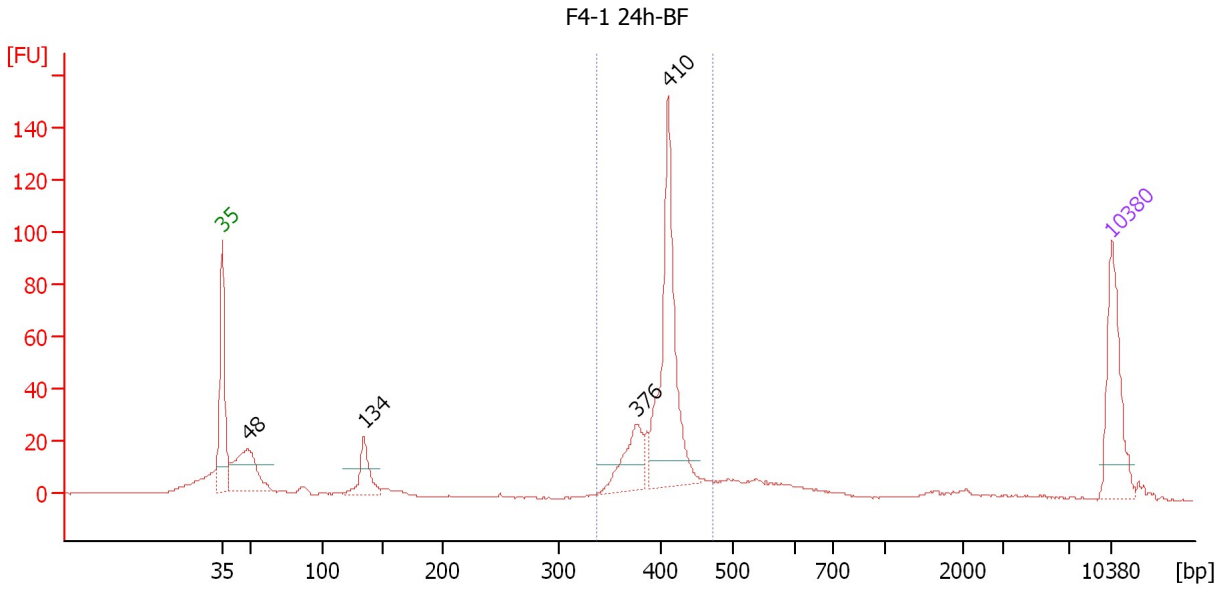
**Region table for sample 2 : F4-2 24h-BF**

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	509.4	132.85	155.6	40	6.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : F4-1 24h-BF**

Height Threshold [FU] : 10

**Overall Results for sample 3 : F4-1 24h-BF**

Number of peaks found: 4      Corr. Area 1: 348.7  
 Noise: 0.2

**Peak table for sample 3 : F4-1 24h-BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	48	118.74	3,734.1	
3	134	53.72	605.8	
4	376	64.74	260.8	
5	410	230.83	852.8	
6	10,380	75.00	10.9	Upper Marker

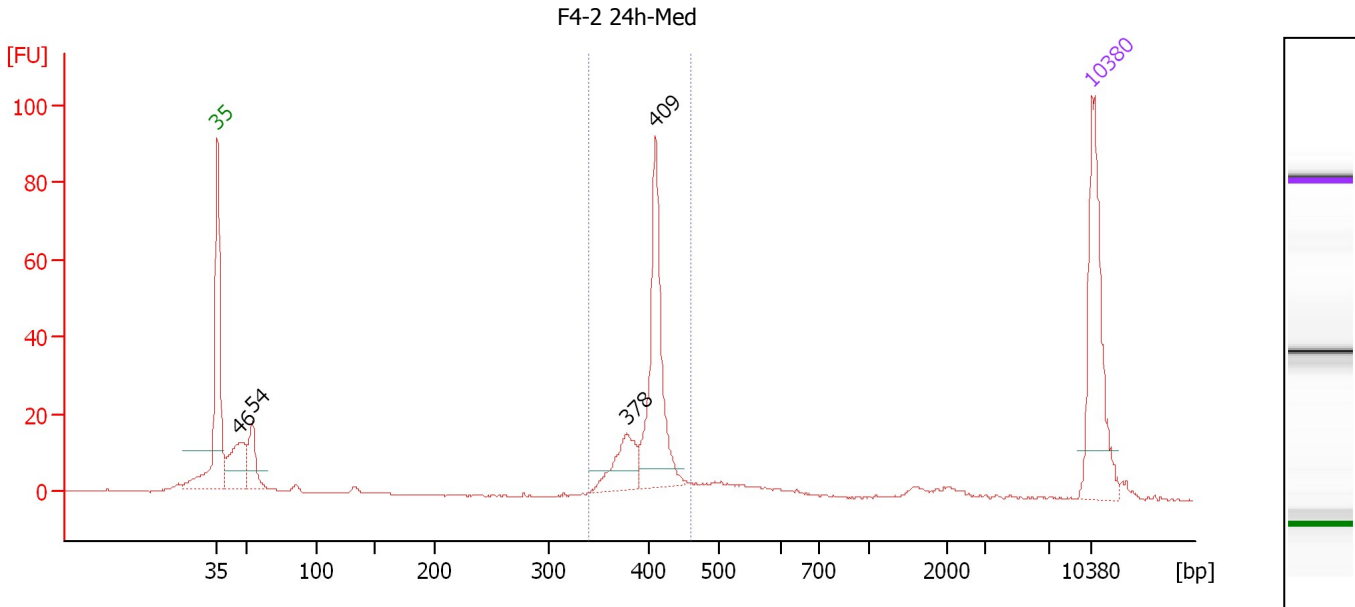
**Region table for sample 3 : F4-1 24h-BF**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	472	404	1,323.6	351.30	348.7	54	5.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : F4-2 24h-Med**

Number of peaks found: 4                      Corr. Area 1: 187.9  
 Noise: 0.2

**Peak table for sample 4 : F4-2 24h-Med**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	63.63	2,088.1	
3	54	37.40	1,043.7	
4	378	39.10	156.6	
5	409	116.26	430.3	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : F4-2 24h-Med**

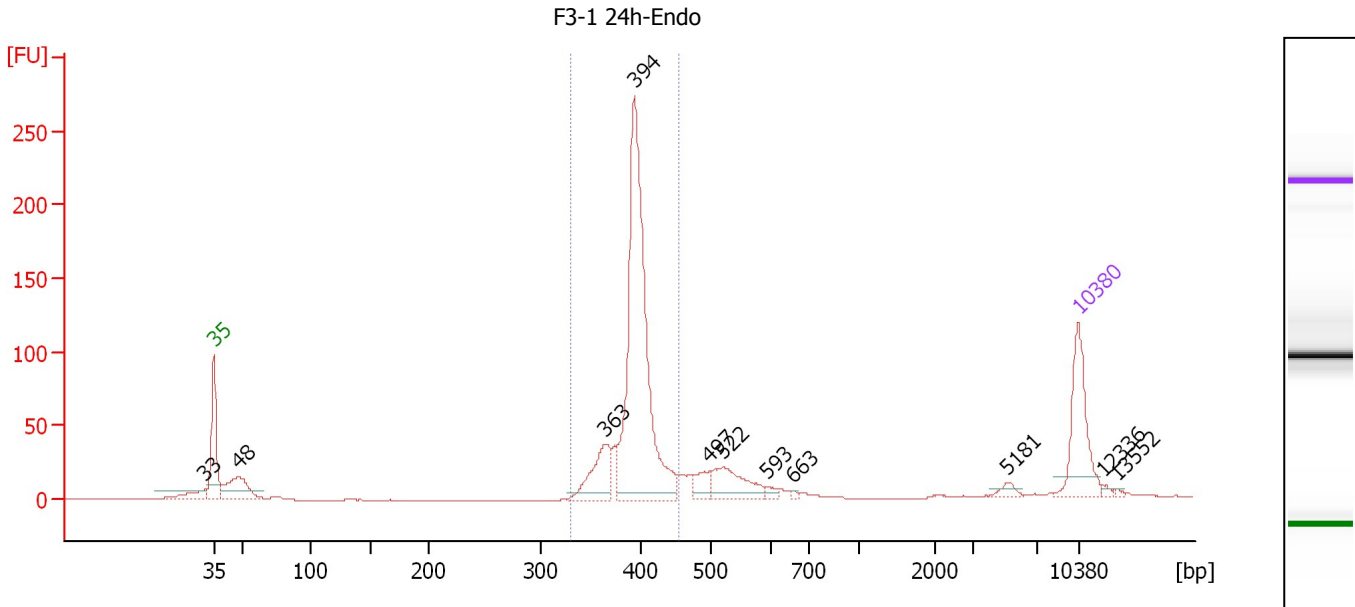
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
340	460	403	659.7	174.86	187.9	56	5.2	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : F3-1 24h-Endo**

Number of peaks found: 11      Corr. Area 1: 704.9  
 Noise: 0.2

**Peak table for sample 5 : F3-1 24h-Endo**

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	75.72	2,390.6	
4	363	73.59	306.8	
5	394	456.04	1,752.6	
6	497	26.23	79.9	
7	522	60.49	175.6	
8	593	6.97	17.8	
9	663	2.21	5.1	
10	5,181	6.58	1.9	
11	10,380	75.00	10.9	Upper Marker
12	12,336	0.00	0.0	
13	13,552	0.00	0.0	

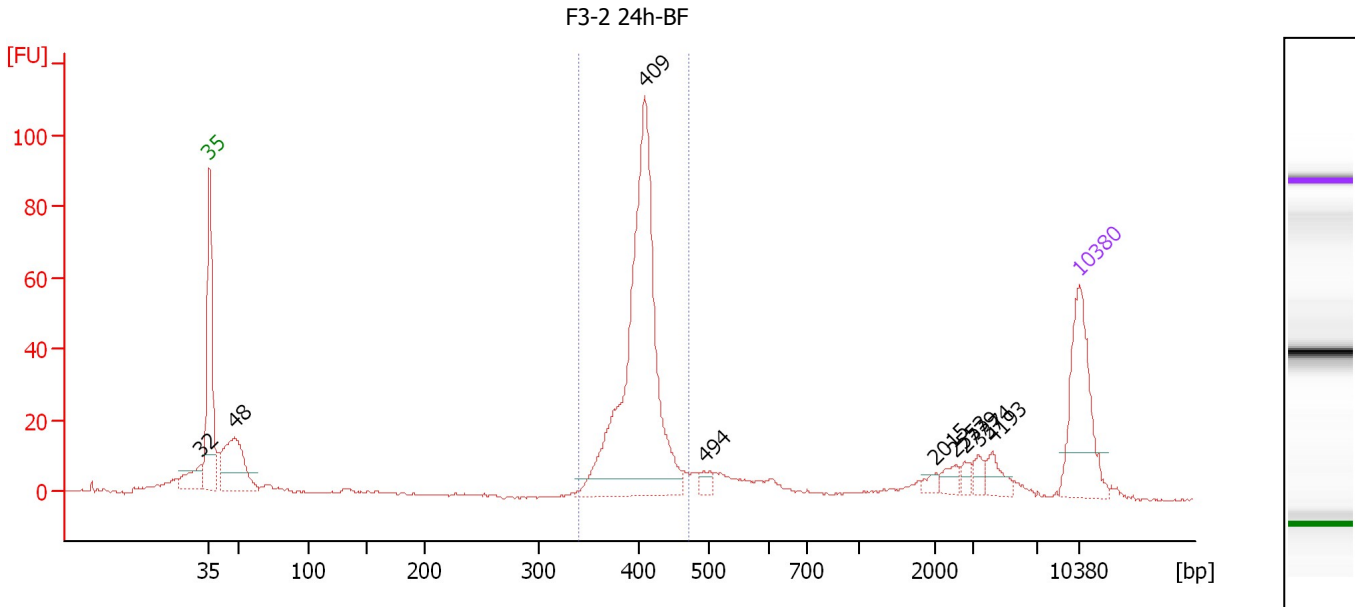
**Region table for sample 5 : F3-1 24h-Endo**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	456	395	2,049.6	533.44	704.9	70	5.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : F3-2 24h-BF**

Number of peaks found: 9                      Corr. Area 1: 374.3  
 Noise: 0.2

**Peak table for sample 6 : F3-2 24h-BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	48	107.23	3,371.3	
4	409	395.09	1,464.9	
5	494	10.20	31.3	
6	2,015	5.33	4.0	
7	2,553	9.12	5.4	
8	2,779	6.51	3.6	
9	3,374	8.17	3.7	
10	4,193	13.20	4.8	
11	10,380	75.00	10.9	Upper Marker

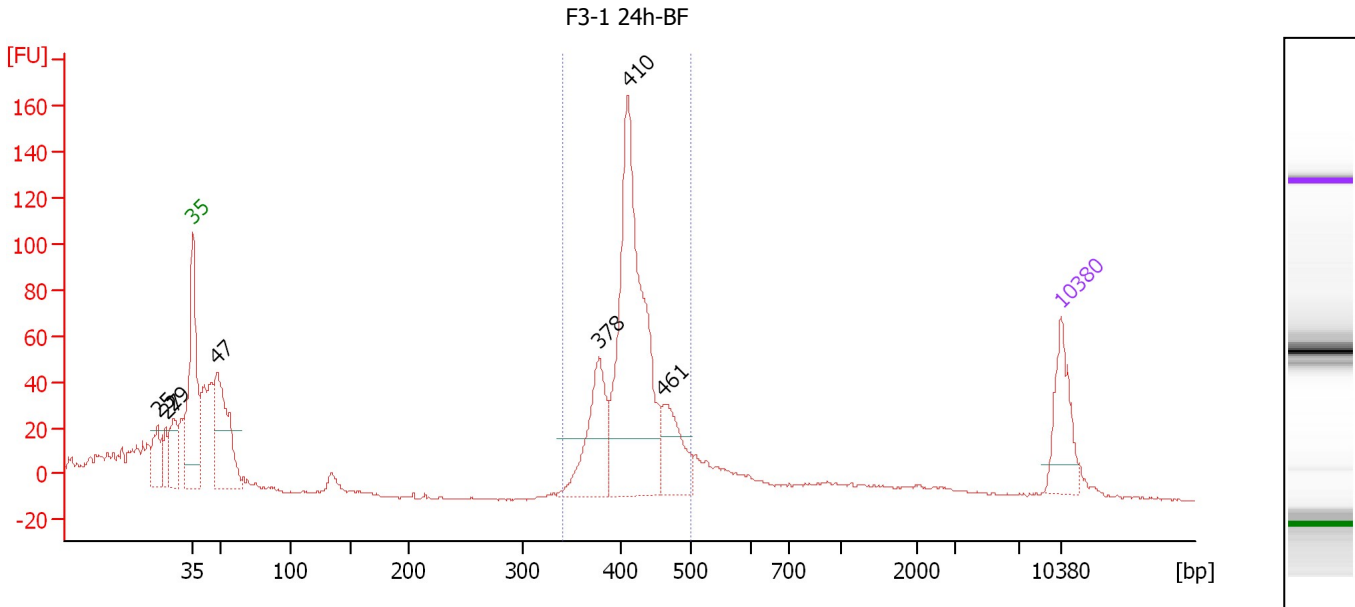
**Region table for sample 6 : F3-2 24h-BF**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
339	472	404	1,515.3	402.80	374.3	56	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : F3-1 24h-BF**

Height Threshold [FU] : 25

**Overall Results for sample 7 : F3-1 24h-BF**

Number of peaks found: 7      Corr. Area 1: 662.3  
 Noise: 0.3

**Peak table for sample 7 : F3-1 24h-BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	25	0.00	0.0	
2	27	0.00	0.0	
3	29	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	47	259.09	8,285.5	
6	378	166.19	666.6	
7	410	541.11	2,000.7	
8	461	106.69	350.8	
9	10,380	75.00	10.9	Upper Marker

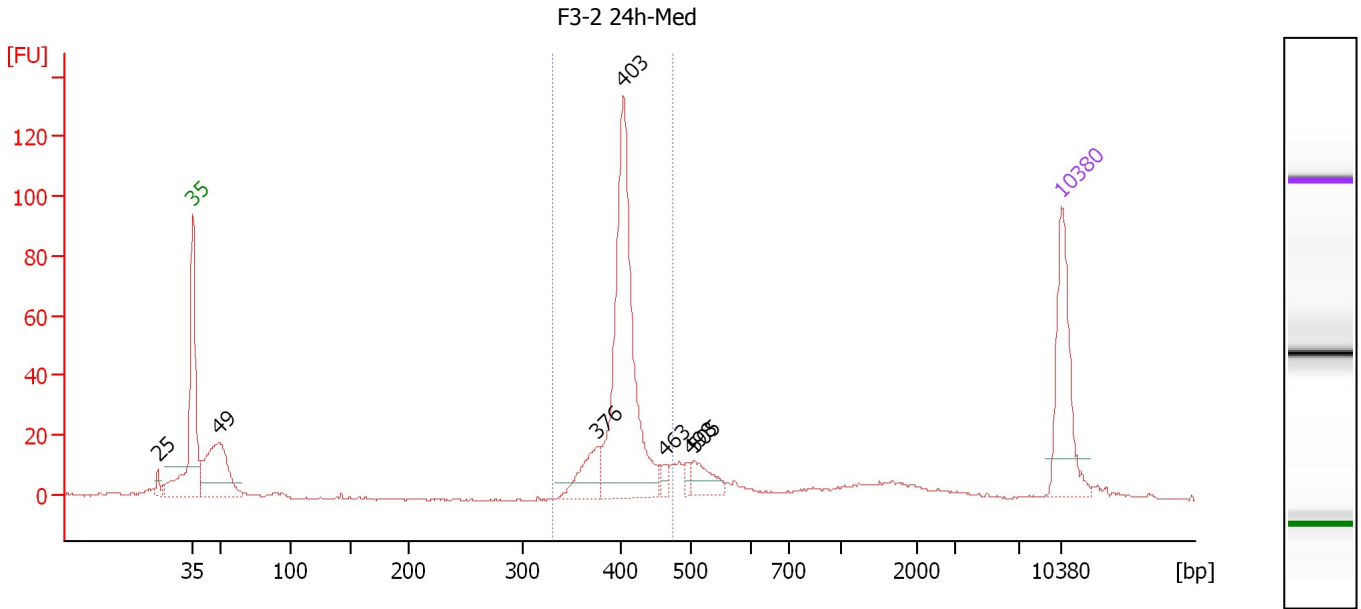
**Region table for sample 7 : F3-1 24h-BF**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
342	498	417	2,652.4	727.12	662.3	54	7.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : F3-2 24h-Med**

Number of peaks found: 7                      Corr. Area 1: 346.9  
 Noise: 0.4

**Peak table for sample 8 : F3-2 24h-Med**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	25	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	49	130.29	4,054.1	
4	376	42.13	169.7	
5	403	279.77	1,051.4	
6	463	8.06	26.4	
7	498	7.62	23.2	
8	505	25.18	75.6	
9	10,380	75.00	10.9	Upper Marker

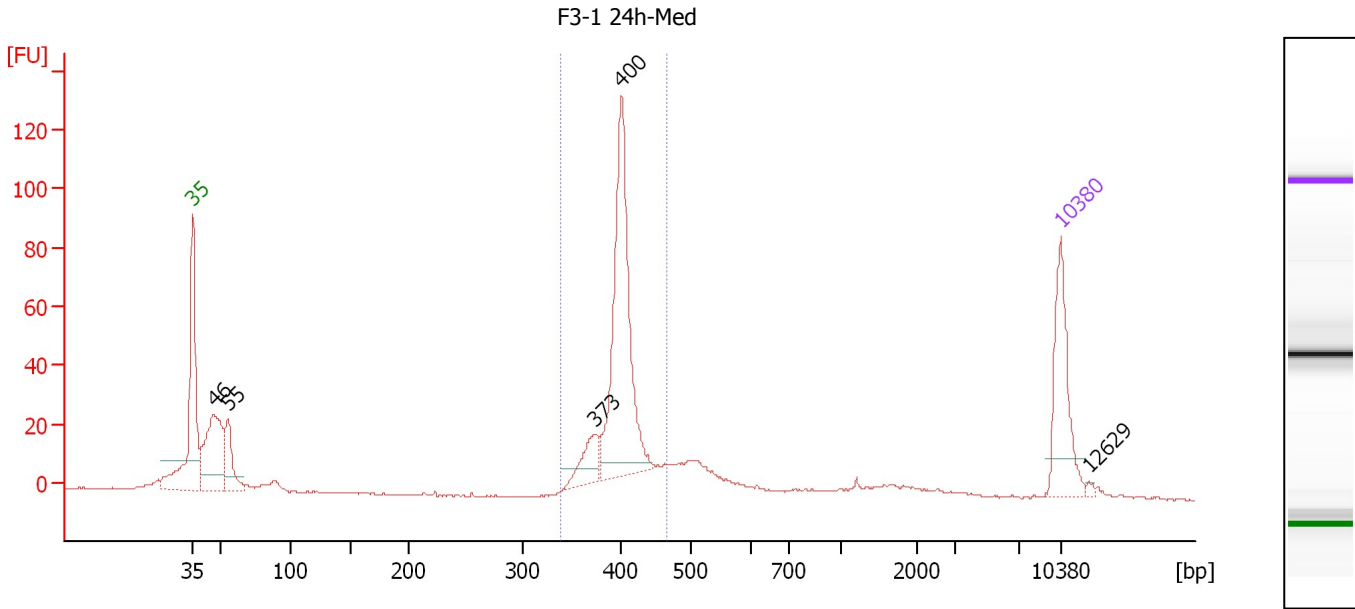
**Region table for sample 8 : F3-2 24h-Med**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
332	473	405	1,262.0	336.37	346.9	57	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : F3-1 24h-Med**

Number of peaks found: 5                      Corr. Area 1: 313.4  
 Noise: 0.3

**Peak table for sample 9 : F3-1 24h-Med**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	157.38	5,171.6	
3	55	64.34	1,783.8	
4	373	42.43	172.4	
5	400	265.39	1,004.3	
6	10,380	75.00	10.9	Upper Marker
7	12,629	0.00	0.0	

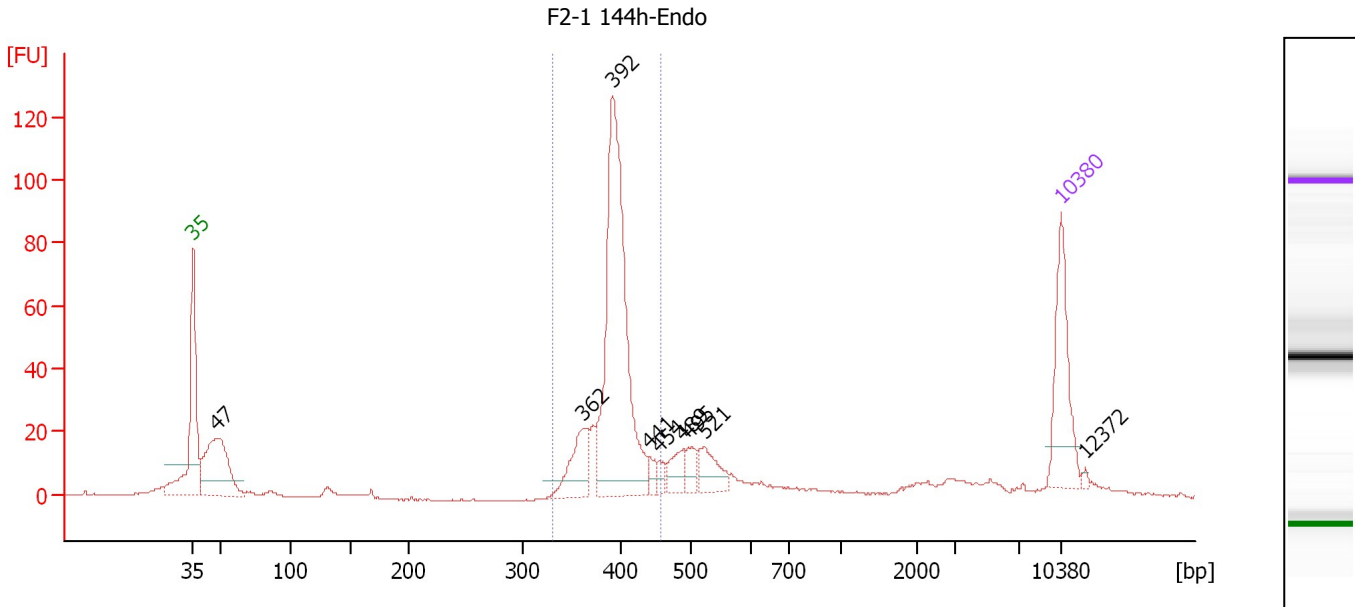
**Region table for sample 9 : F3-1 24h-Med**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
340	464	401	1,308.0	345.56	313.4	63	4.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : F2-1 144h-Endo**

Number of peaks found: 9                      Corr. Area 1: 387.5  
 Noise: 0.3

**Peak table for sample 10 : F2-1 144h-Endo**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	160.56	5,137.1	
3	362	61.71	258.3	
4	392	361.80	1,399.2	
5	441	11.29	38.8	
6	454	10.17	33.9	
7	489	25.53	79.1	
8	495	18.96	58.0	
9	521	34.93	101.5	
10	10,380	75.00	10.9	Upper Marker
11	12,372	0.00	0.0	

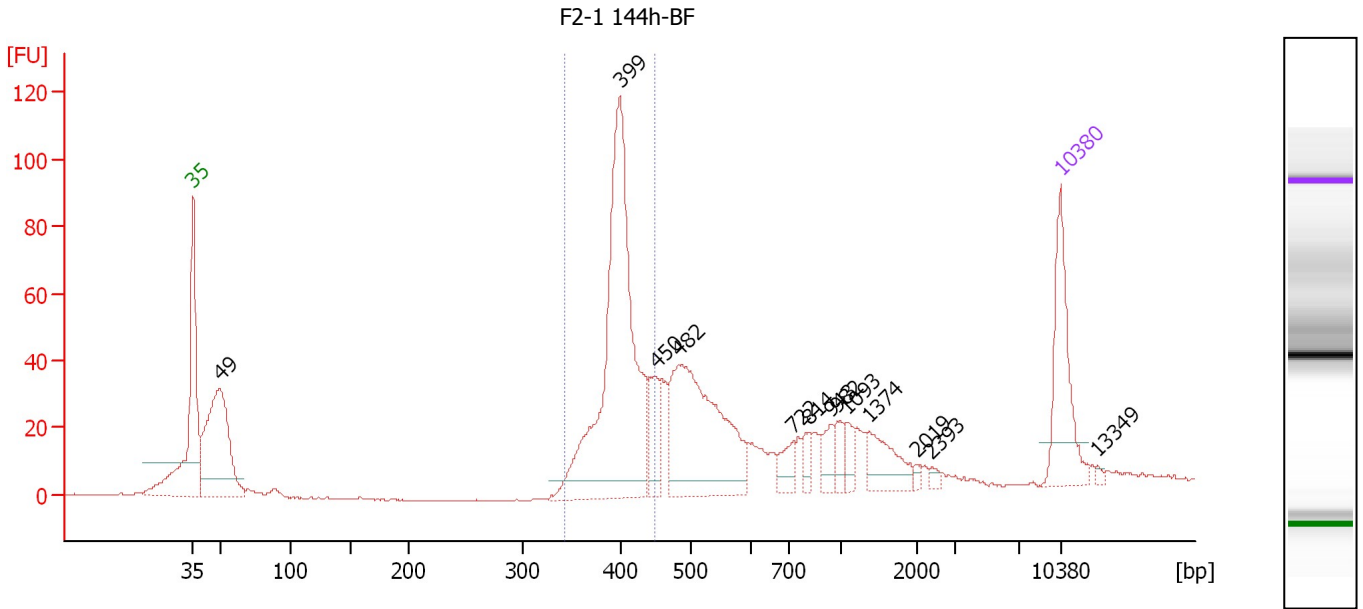
**Region table for sample 10 : F2-1 144h-Endo**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
331	456	394	1,766.9	457.88	387.5	56	5.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : F2-1 144h-BF**

Number of peaks found: 13                      Corr. Area 1: 394.1  
 Noise: 0.3

**Peak table for sample 11 : F2-1 144h-BF**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	237.11	7,339.0	
3	399	410.36	1,558.1	
4	450	44.51	150.0	
5	482	232.32	730.9	
6	722	19.76	41.5	
7	814	11.37	21.2	
8	943	18.08	29.1	
9	982	15.65	24.1	
10	1,093	14.89	20.6	
11	1,374	40.86	45.1	
12	2,019	3.83	2.9	
13	2,393	4.14	2.6	
14	10,380	75.00	10.9	Upper Marker
15	13,349	0.00	0.0	

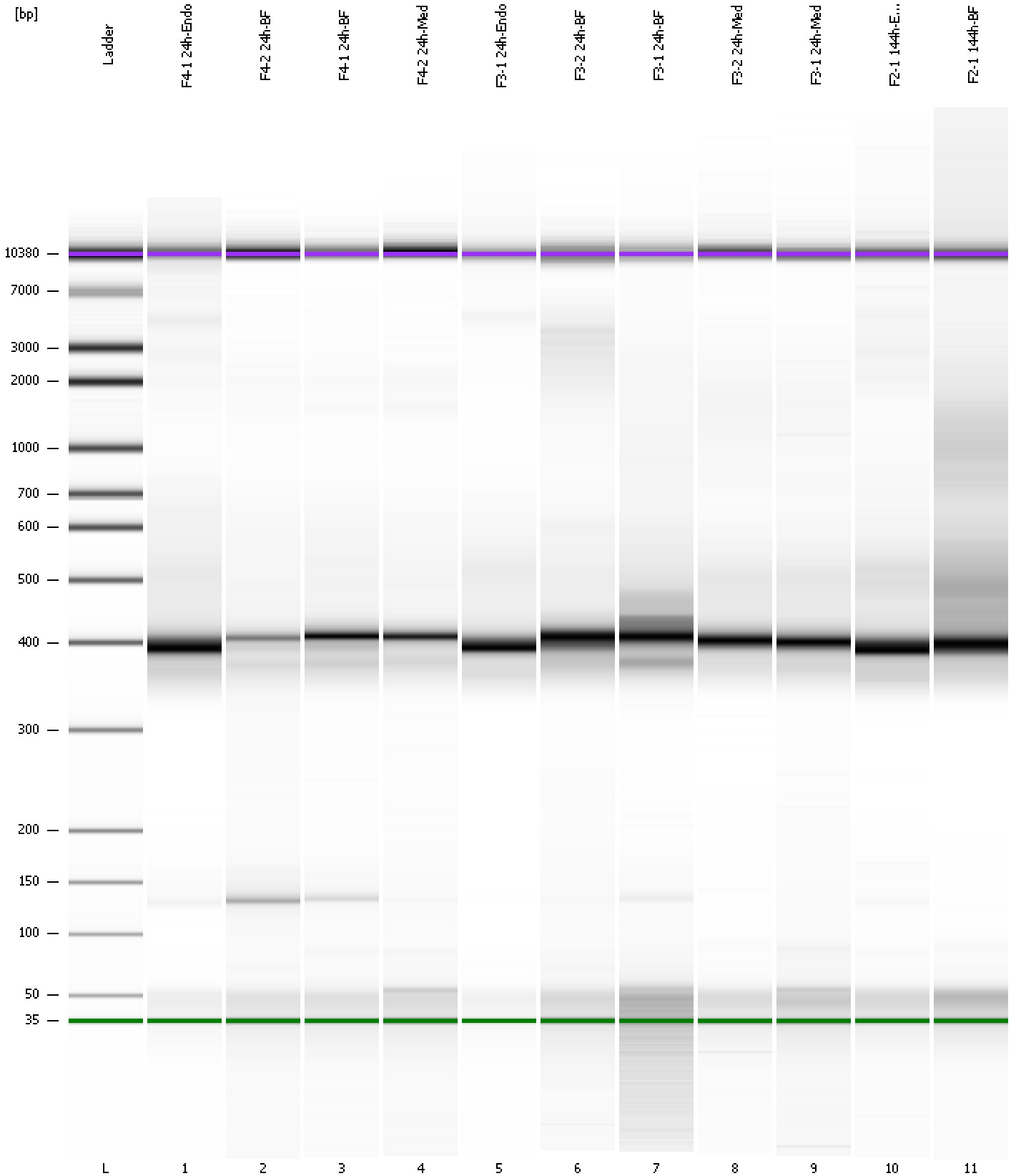
**Region table for sample 11 : F2-1 144h-BF**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
344	449	401	1,563.1	412.68	394.1	38	5.4	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
Modified: 6/12/2013 11:47:08 AM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-06-12\2013-06-12\_003.xad

Created: 6/12/2013 11:06:11 AM  
 Modified: 6/12/2013 11:47:08 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 11:46:40 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_003.xad)		Instrument	Run		6/12/2013 11:06:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/12/2013 11:06:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/12/2013 11:06:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/12/2013 11:06:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/12/2013 11:06:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/12/2013 11:06:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/12/2013 11:06:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1