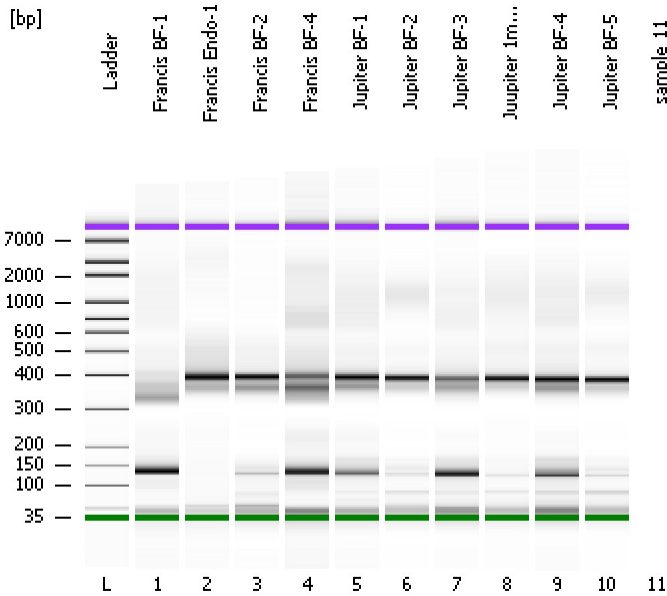


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
Modified: 9/19/2013 10:45:26 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

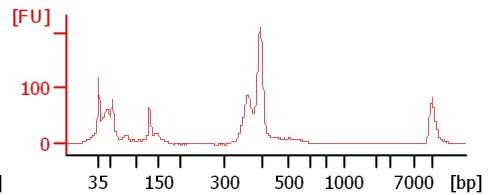
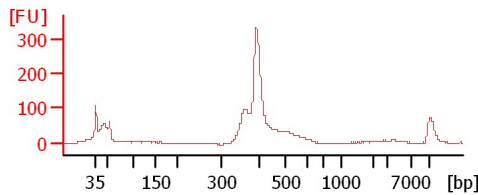
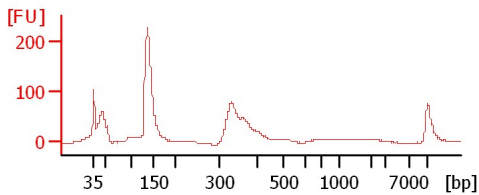
Chip Information:

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

**Francis BF-1**

**Francis Endo-1**

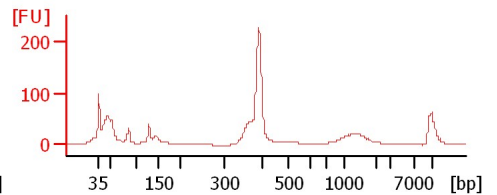
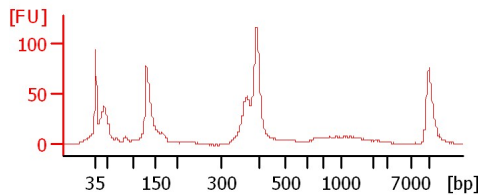
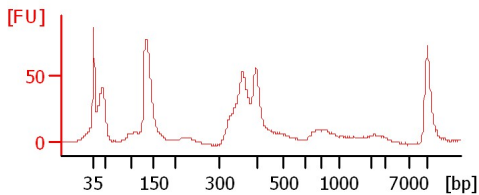
**Francis BF-2**



**Francis BF-4**

**Jupiter BF-1**

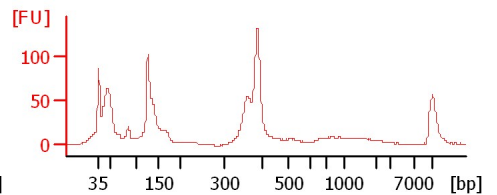
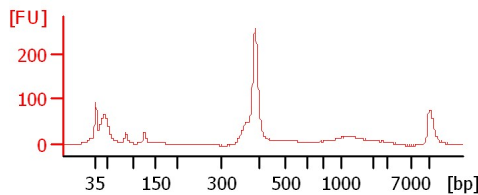
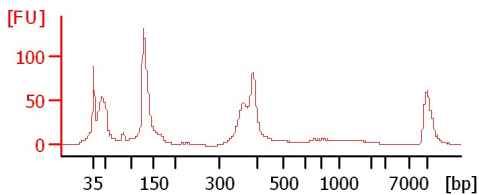
**Jupiter BF-2**



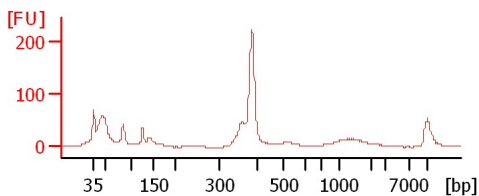
**Jupiter BF-3**

**Juupiter 1mm-4**

**Jupiter BF-4**



**Jupiter BF-5**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Francis BF-1		<input type="checkbox"/>	✓			
Francis Endo-1		<input type="checkbox"/>	✓			
Francis BF-2		<input type="checkbox"/>	✓			
Francis BF-4		<input type="checkbox"/>	✓			
Jupiter BF-1		<input type="checkbox"/>	✓			
Jupiter BF-2		<input type="checkbox"/>	✓			
Jupiter BF-3		<input type="checkbox"/>	✓			
Jupiter 1mm-4		<input type="checkbox"/>	✓			
Jupiter BF-4		<input type="checkbox"/>	✓			
Jupiter BF-5		<input type="checkbox"/>	✓			
sample 11		<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\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
Modified: 9/19/2013 10:45:26 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

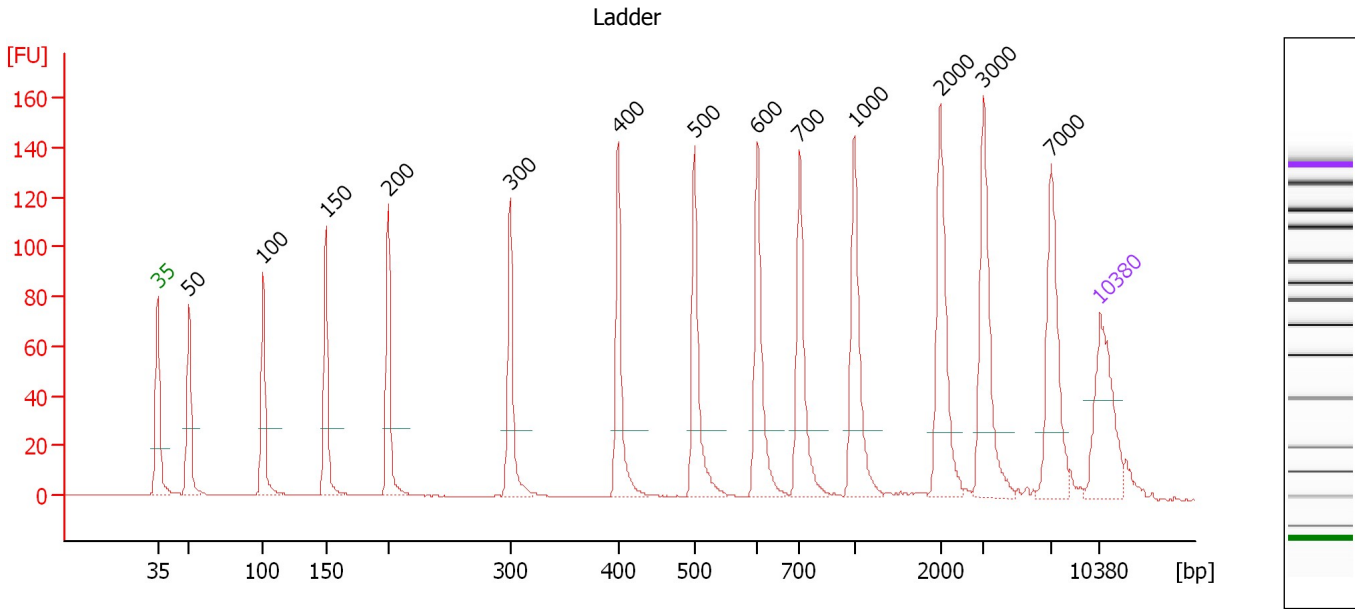
**Ladder**

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\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

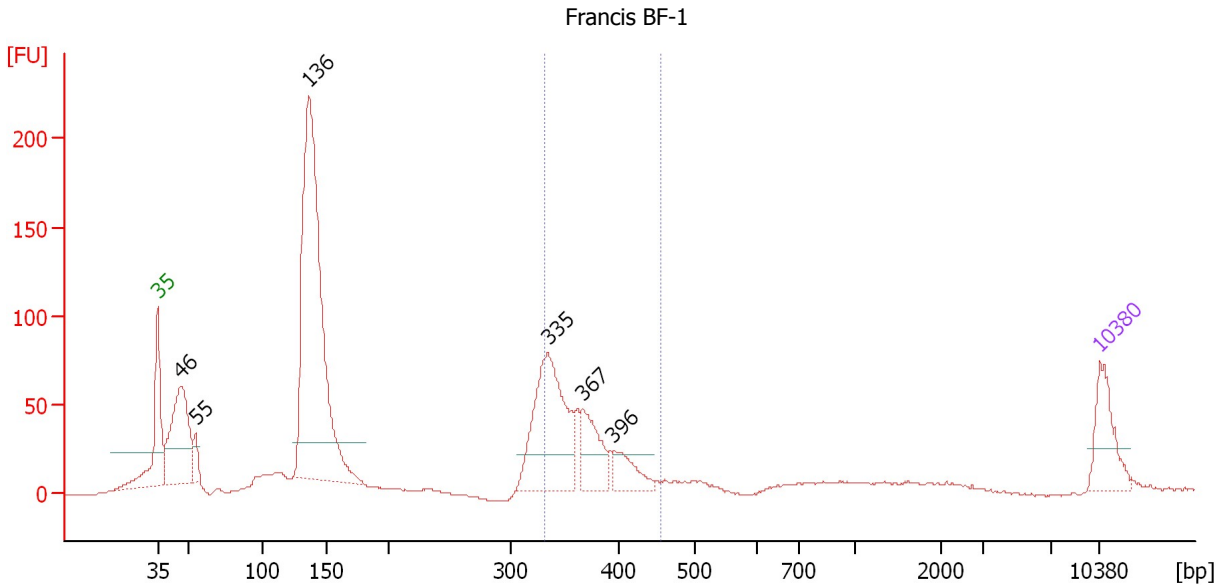
**Peak table for Ladder**

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\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : Francis BF-1**

Height Threshold [FU] : 20

**Overall Results for sample 1 : Francis BF-1**

Number of peaks found: 6      Corr. Area 1: 397.7  
 Noise: 0.3

**Peak table for sample 1 : Francis BF-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	312.69	10,240.6	
3	55	38.78	1,076.2	
4	136	1,024.68	11,399.9	
5	335	342.50	1,548.4	
6	367	111.50	460.2	
7	396	63.52	243.2	
8	10,380	75.00	10.9	Upper Marker

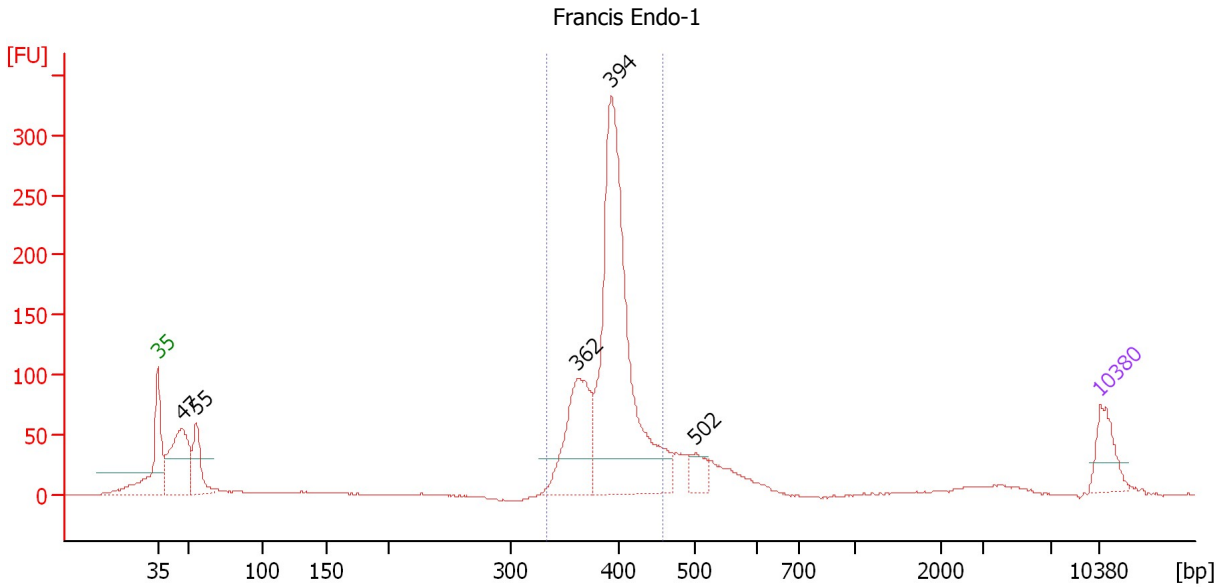
**Region table for sample 1 : Francis BF-1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
332	455	367	1,815.7	437.30	397.7	23	7.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : Francis Endo-1**

Height Threshold [FU] : 30

**Overall Results for sample 2 : Francis Endo-1**

Number of peaks found: 5                      Corr. Area 1: 1,223.1  
 Noise: 0.5

**Peak table for sample 2 : Francis Endo-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	320.88	10,415.9	
3	55	144.46	3,959.4	
4	362	325.82	1,362.9	
5	394	1,032.70	3,972.1	
6	502	56.78	171.5	
7	10,380	75.00	10.9	Upper Marker

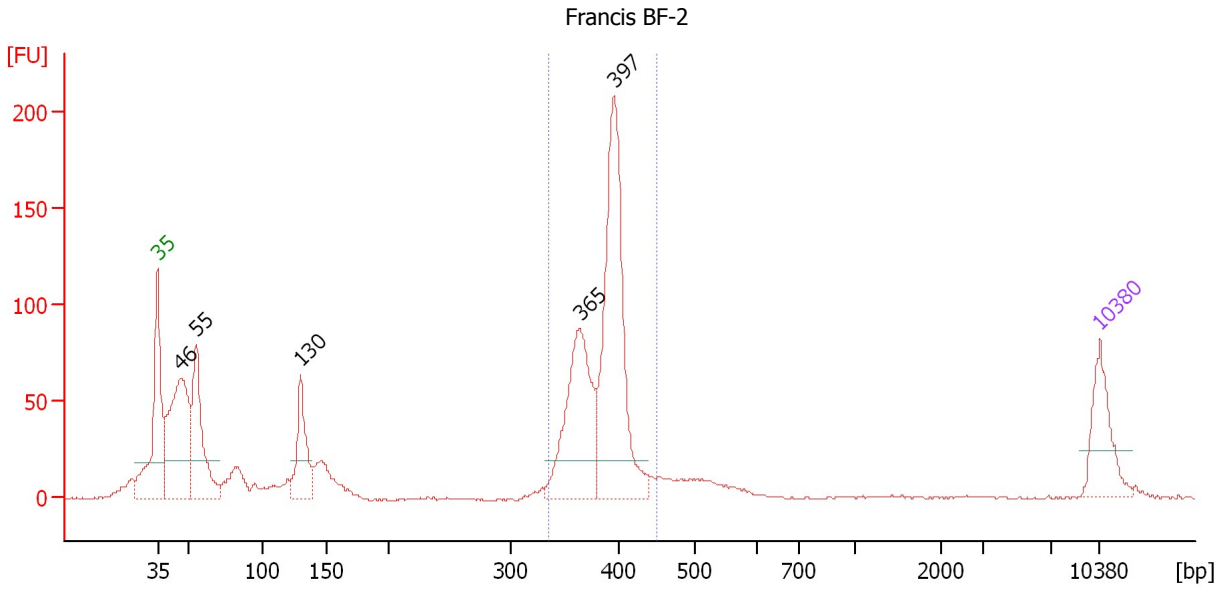
**Region table for sample 2 : Francis Endo-1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	458	393	5,012.9	1,297.13	1,223.1	68	6.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : Francis BF-2**

Height Threshold [FU] : 20

**Overall Results for sample 3 : Francis BF-2**

Number of peaks found: 5      Corr. Area 1: 710.7  
 Noise: 0.5

**Peak table for sample 3 : Francis BF-2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	356.94	11,781.5	
3	55	224.31	6,170.4	
4	130	134.18	1,565.4	
5	365	271.81	1,129.5	
6	397	425.09	1,624.2	
7	10,380	75.00	10.9	Upper Marker

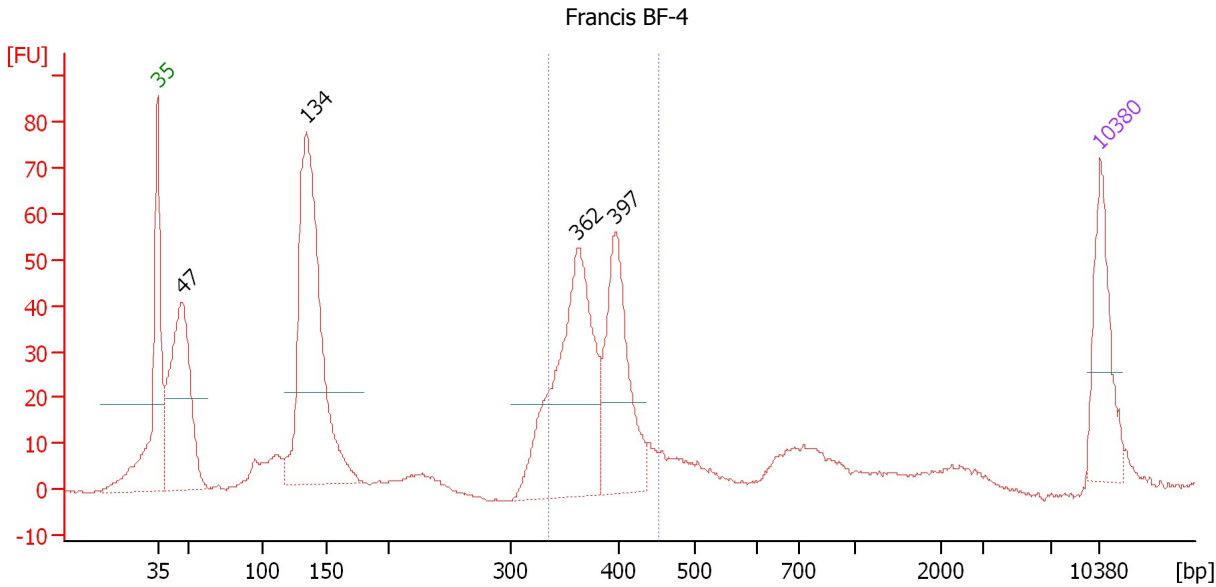
**Region table for sample 3 : Francis BF-2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	451	385	2,728.3	692.89	710.7	49	5.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : Francis BF-4**

Height Threshold [FU] : 20

**Overall Results for sample 4 : Francis BF-4**

Number of peaks found: 4      Corr. Area 1: 352.7  
 Noise: 0.2

**Peak table for sample 4 : Francis BF-4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	305.56	9,926.4	
3	134	485.57	5,473.8	
4	362	311.30	1,301.9	
5	397	182.32	695.0	
6	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Francis BF-4**

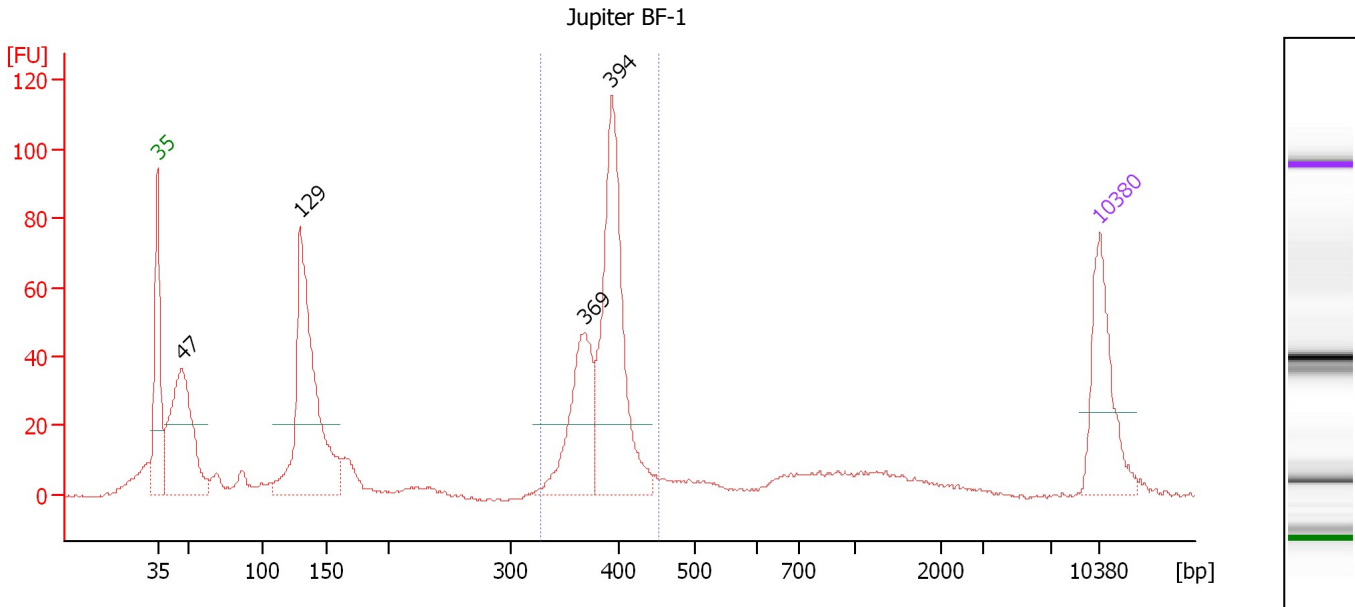
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
335	452	381	1,759.8	440.44	352.7	33	6.9	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : Jupiter BF-1**

Height Threshold [FU] : 20

**Overall Results for sample 5 : Jupiter BF-1**

Number of peaks found: 4                      Corr. Area 1: 393.2  
 Noise: 0.5

**Peak table for sample 5 : Jupiter BF-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	228.55	7,403.1	
3	129	319.75	3,743.4	
4	369	125.28	515.1	
5	394	249.05	957.8	
6	10,380	75.00	10.9	Upper Marker

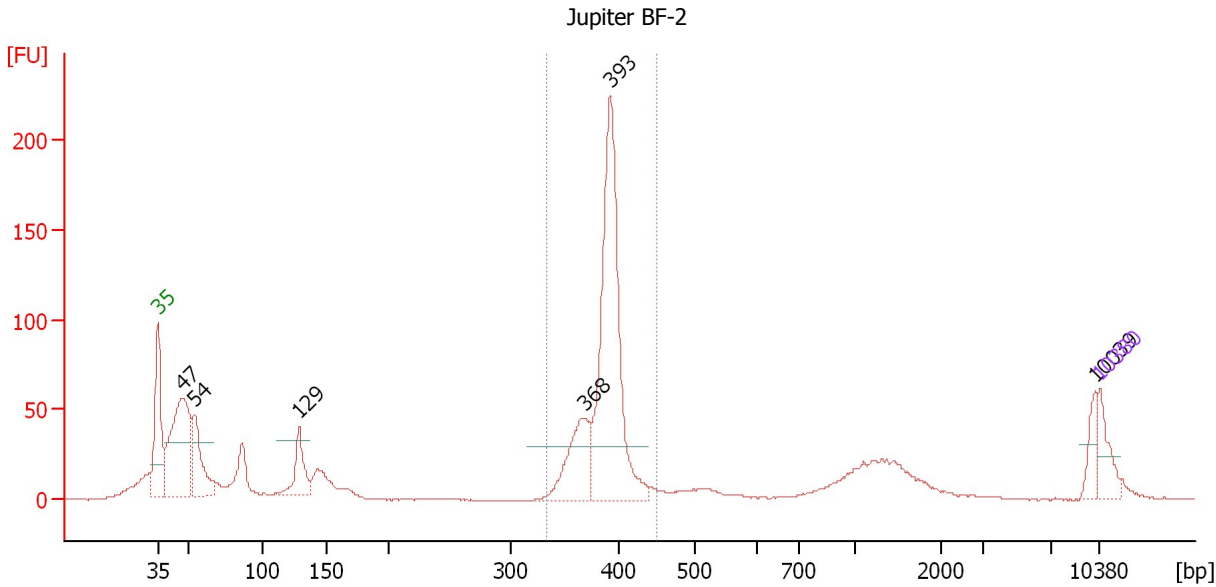
**Region table for sample 5 : Jupiter BF-1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
329	453	387	1,475.1	376.09	393.2	39	5.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : Jupiter BF-2**

Height Threshold [FU] : 30

**Overall Results for sample 6 : Jupiter BF-2**

Number of peaks found: 6                      Corr. Area 1: 565.1  
 Noise: 0.2

**Peak table for sample 6 : Jupiter BF-2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	607.03	19,507.0	
3	54	240.23	6,757.2	
4	129	154.16	1,815.1	
5	368	252.65	1,039.5	
6	393	904.23	3,488.7	
7	10,039	52.89	8.0	
8	10,380	75.00	10.9	Upper Marker

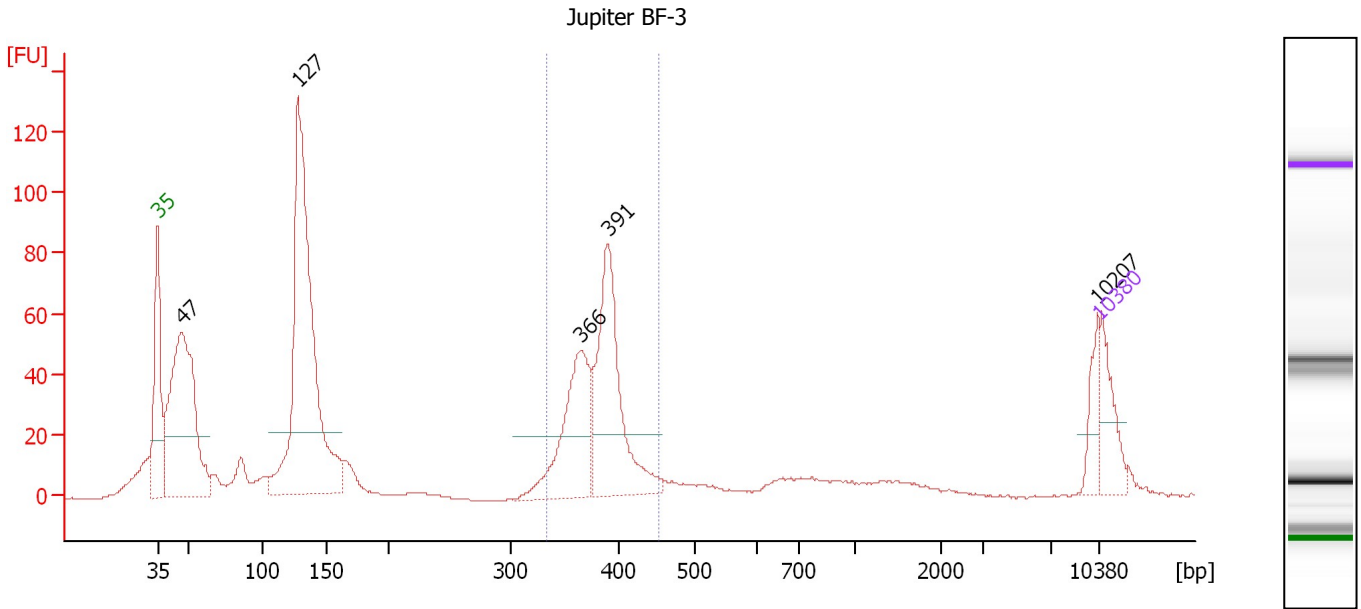
**Region table for sample 6 : Jupiter BF-2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	452	388	4,451.1	1,138.33	565.1	42	4.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : Jupiter BF-3**

Height Threshold [FU] : 20

**Overall Results for sample 7 : Jupiter BF-3**

Number of peaks found: 5                      Corr. Area 1: 353.2  
 Noise: 0.1

**Peak table for sample 7 : Jupiter BF-3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	693.02	22,465.0	
3	127	989.68	11,762.6	
4	366	278.71	1,154.3	
5	391	373.94	1,450.1	
6	10,207	47.20	7.0	
7	10,380	75.00	10.9	Upper Marker

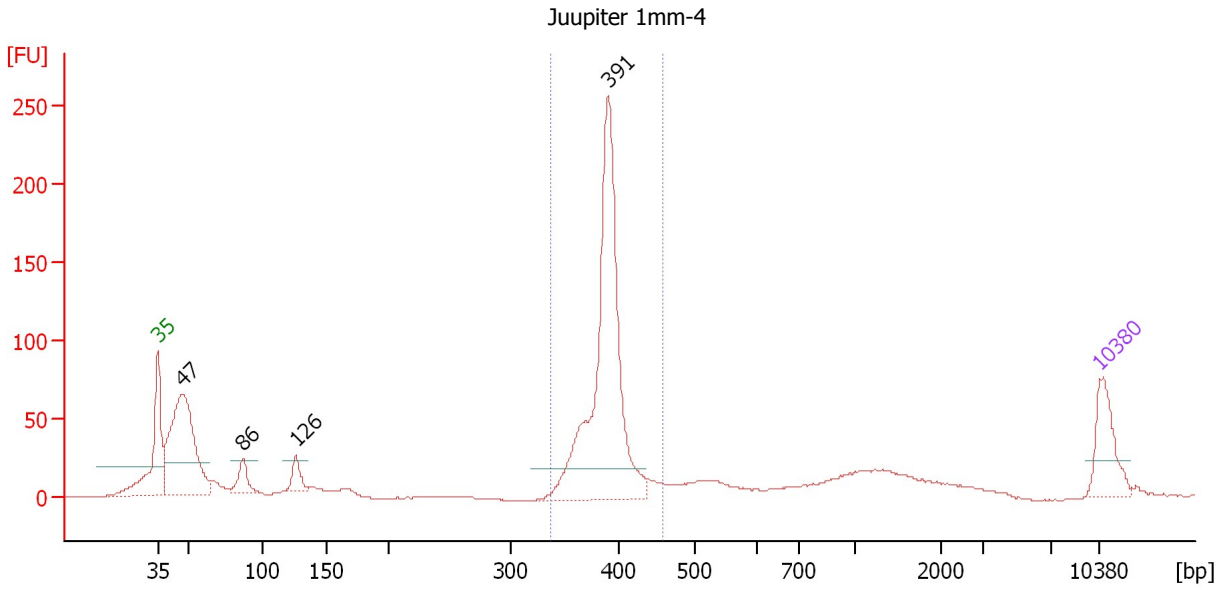
**Region table for sample 7 : Jupiter BF-3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
333	454	382	2,516.5	632.72	353.2	27	5.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : Juupiter 1mm-4**

Height Threshold [FU] : 20

**Overall Results for sample 8 : Juupiter 1mm-4**

Number of peaks found: 4                      Corr. Area 1: 629.9  
 Noise: 0.2

**Peak table for sample 8 : Juupiter 1mm-4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	435.92	14,061.5	
3	86	50.59	887.7	
4	126	42.29	508.1	
5	391	637.05	2,471.0	
6	10,380	75.00	10.9	Upper Marker

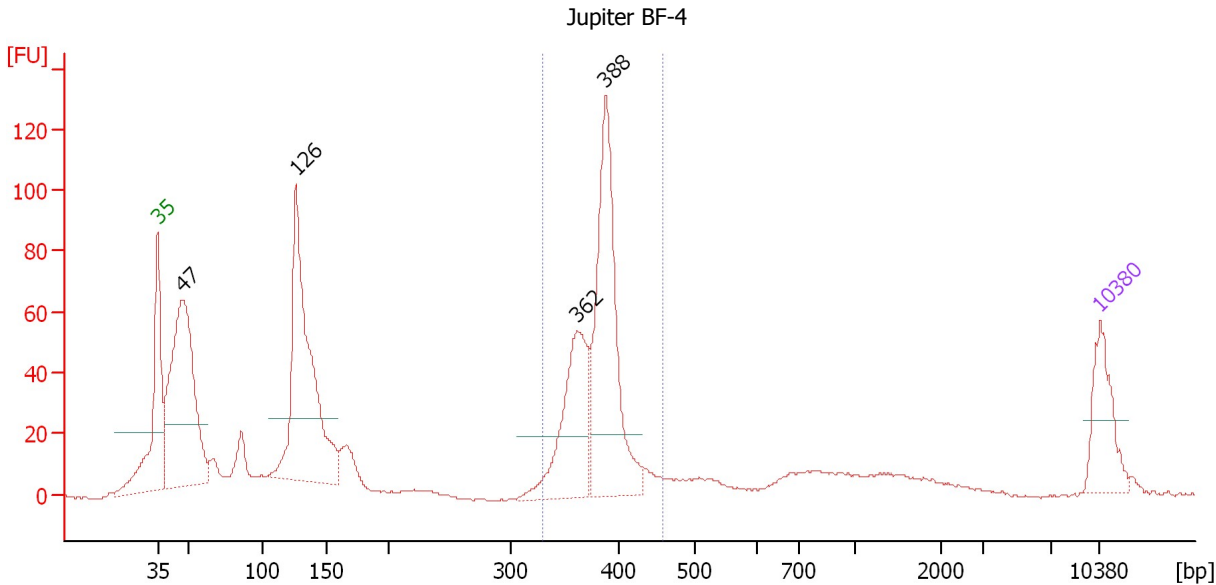
**Region table for sample 8 : Juupiter 1mm-4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
337	458	389	2,467.8	633.30	629.9	47	4.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : Jupiter BF-4**

Height Threshold [FU] : 20

**Overall Results for sample 9 : Jupiter BF-4**

Number of peaks found: 4                      Corr. Area 1: 445.7  
 Noise: 0.4

**Peak table for sample 9 : Jupiter BF-4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	534.79	17,230.0	
3	126	502.22	6,033.5	
4	362	218.85	915.0	
5	388	371.04	1,447.2	
6	10,380	75.00	10.9	Upper Marker

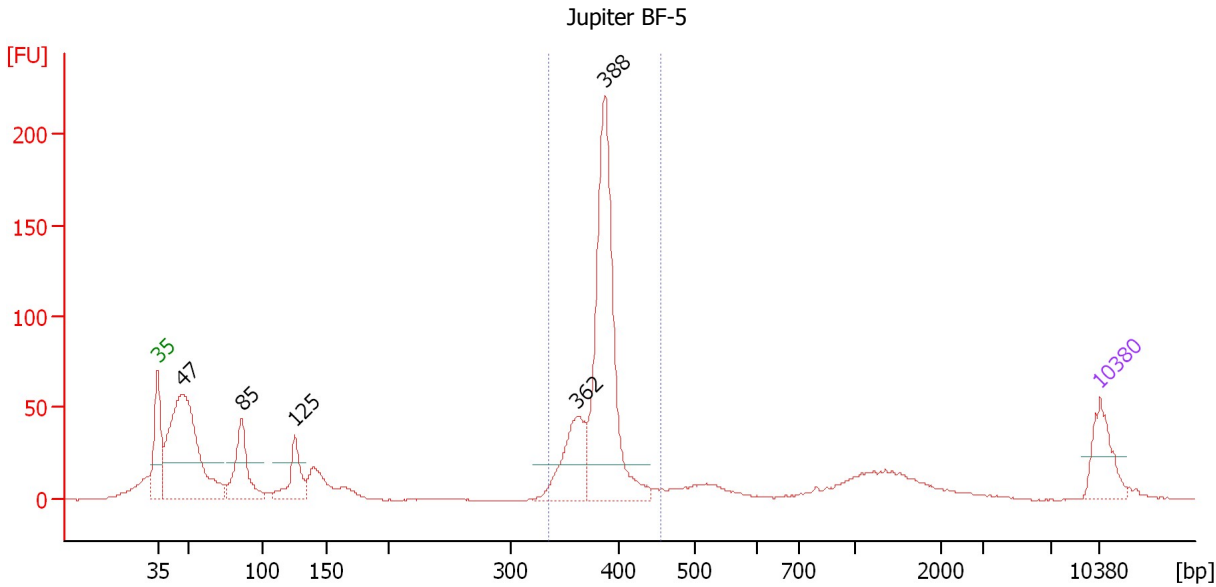
**Region table for sample 9 : Jupiter BF-4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
330	458	382	2,358.6	593.01	445.7	34	5.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
 Modified: 9/19/2013 10:45:26 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : Jupiter BF-5**

Height Threshold [FU] : 20

**Overall Results for sample 10 : Jupiter BF-5**

Number of peaks found: 5                      Corr. Area 1: 547.4  
 Noise: 0.1

**Peak table for sample 10 : Jupiter BF-5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	47	635.92	20,434.3	
3	85	183.46	3,251.9	
4	125	110.58	1,338.4	
5	362	175.87	735.7	
6	388	597.08	2,332.0	
7	10,380	75.00	10.9	Upper Marker

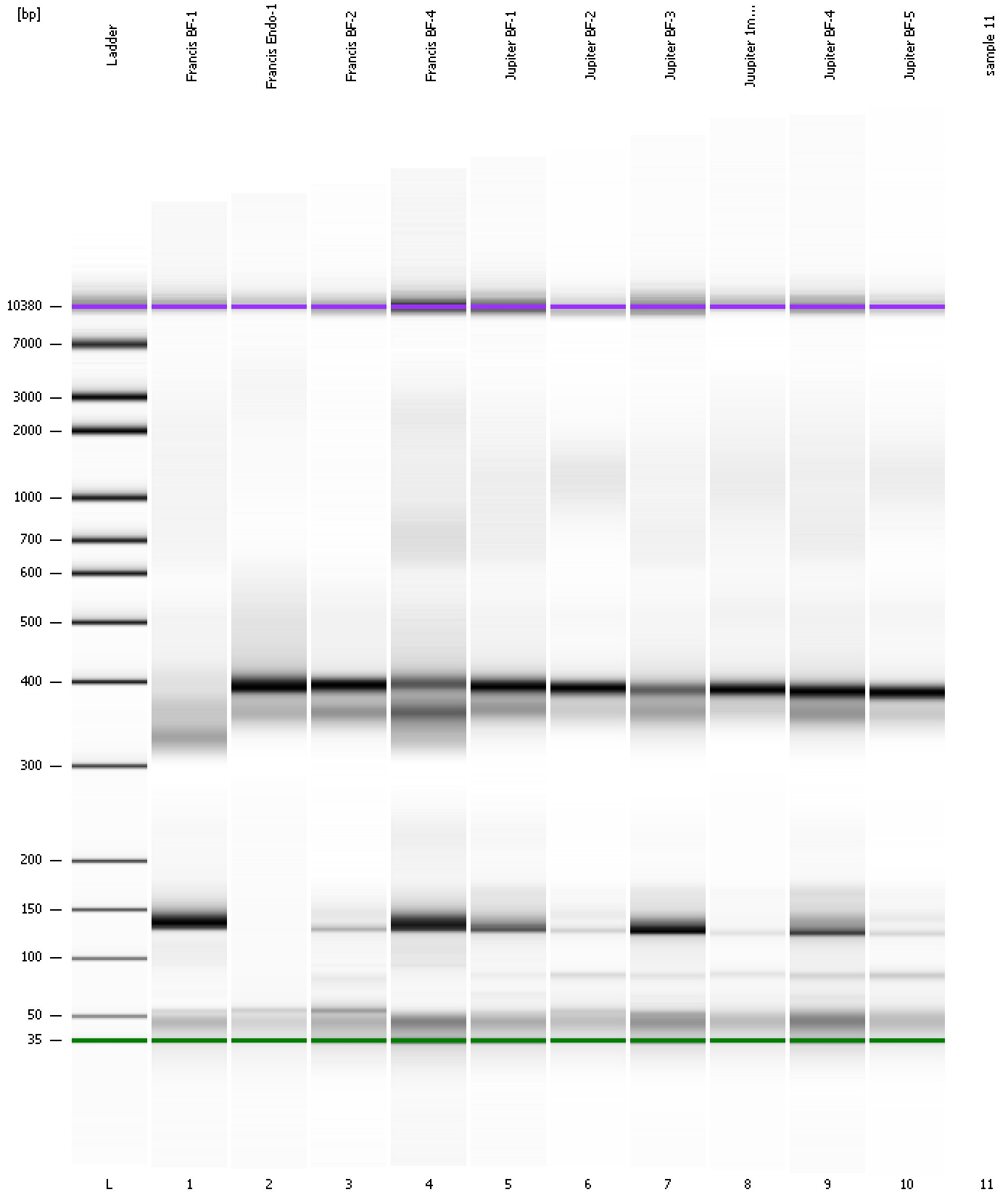
**Region table for sample 10 : Jupiter BF-5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
336	455	383	2,995.0	757.13	547.4	43	4.6	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
Modified: 9/19/2013 10:45:26 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-09-19\2013-09-19\_002.xad

Created: 9/19/2013 10:06:01 AM  
Modified: 9/19/2013 10:45:26 AM

**Invalid Samples**

Sample 11 has not been run, no results available.