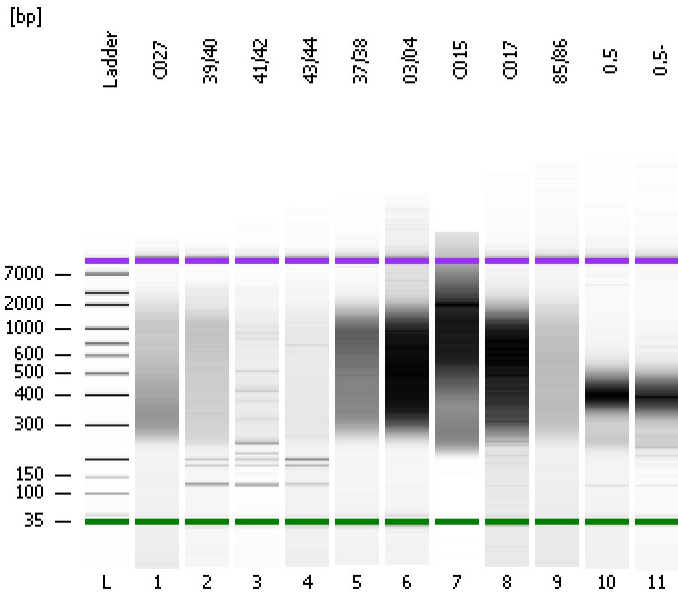


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
Modified: 3/8/2012 3:08:23 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

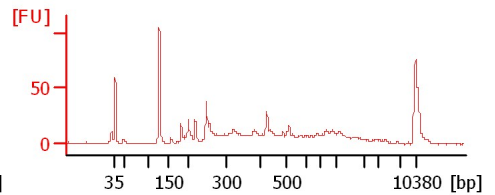
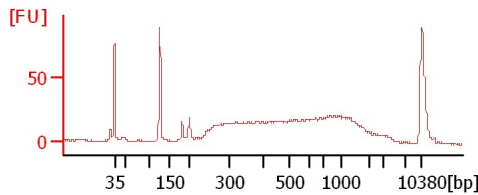
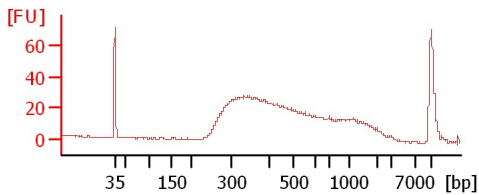
Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments: IgG: 11/9; sample 2 to 4 were prepared on 1/9/2012; sample 5 to 9 were Chip-seq samples re-amplified on 1/10/2012.

C027

39/40

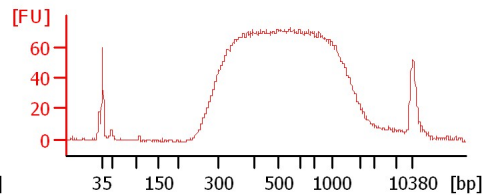
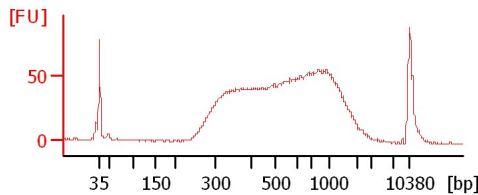
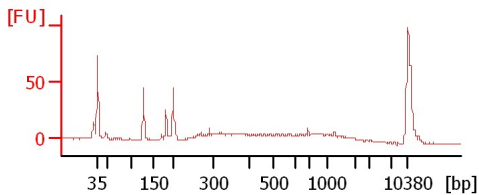
41/42



43/44

37/38

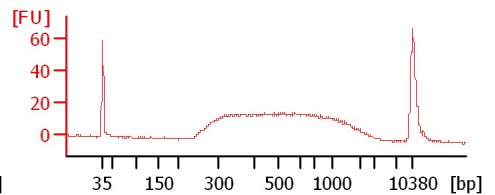
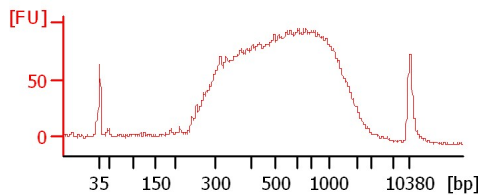
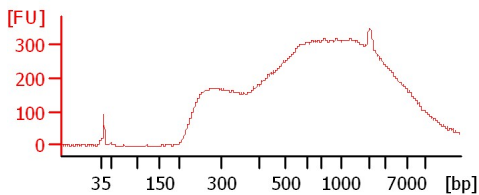
03/04



C015

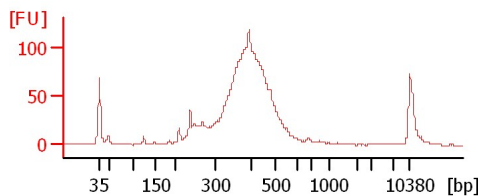
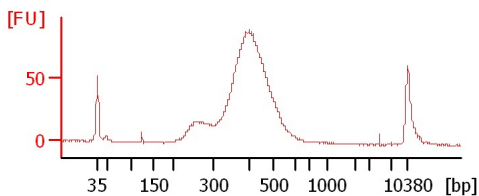
C017

85/86



0.5

0.5-



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
 Modified: 3/8/2012 3:08:23 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
C027		<input type="checkbox"/>	✓			
39/40		<input type="checkbox"/>	✓			
41/42		<input type="checkbox"/>	✓			
43/44		<input type="checkbox"/>	✓			
37/38		<input type="checkbox"/>	✓			
03/04		<input type="checkbox"/>	✓			
C015		<input type="checkbox"/>	✓			
C017		<input type="checkbox"/>	✓			
85/86		<input type="checkbox"/>	✓			
0.5		<input type="checkbox"/>	✓			
0.5-		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

IgG: 11/9; sample 2 to 4 were prepared on 1/9/2012; sample 5 to 9 were Chip-seq samples re-amplified on 1/10/2012.

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
Modified: 3/8/2012 3:08:23 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

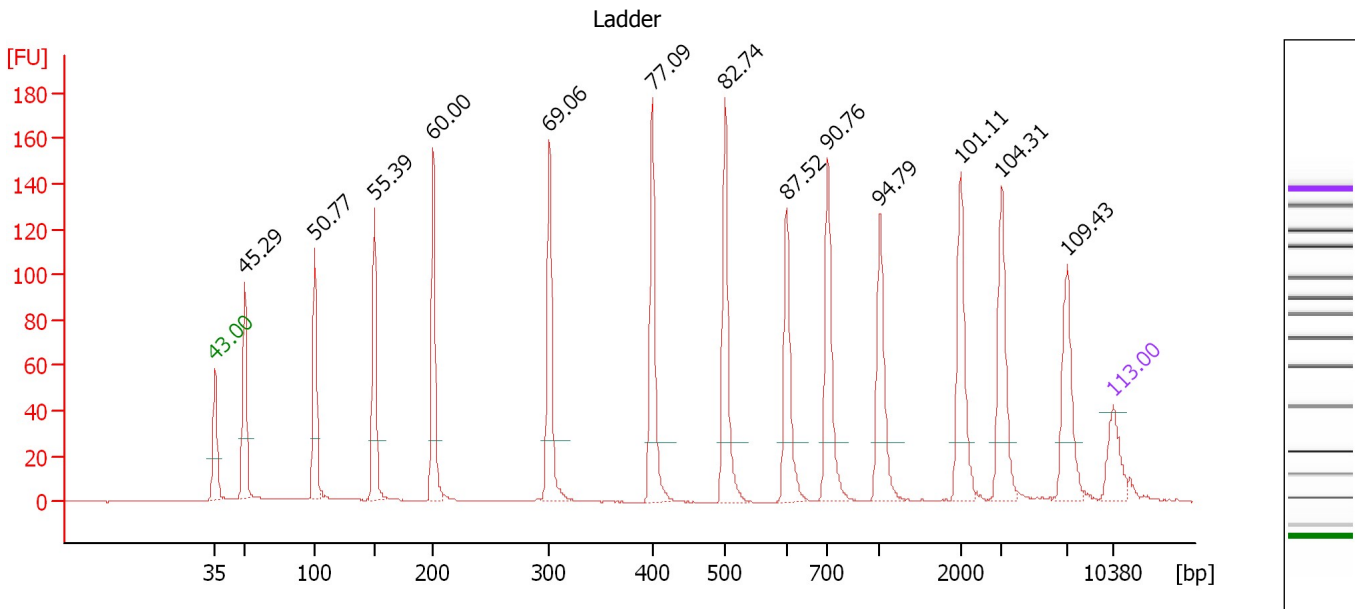
**Ladder**

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:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
 Modified: 3/8/2012 3:08:23 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

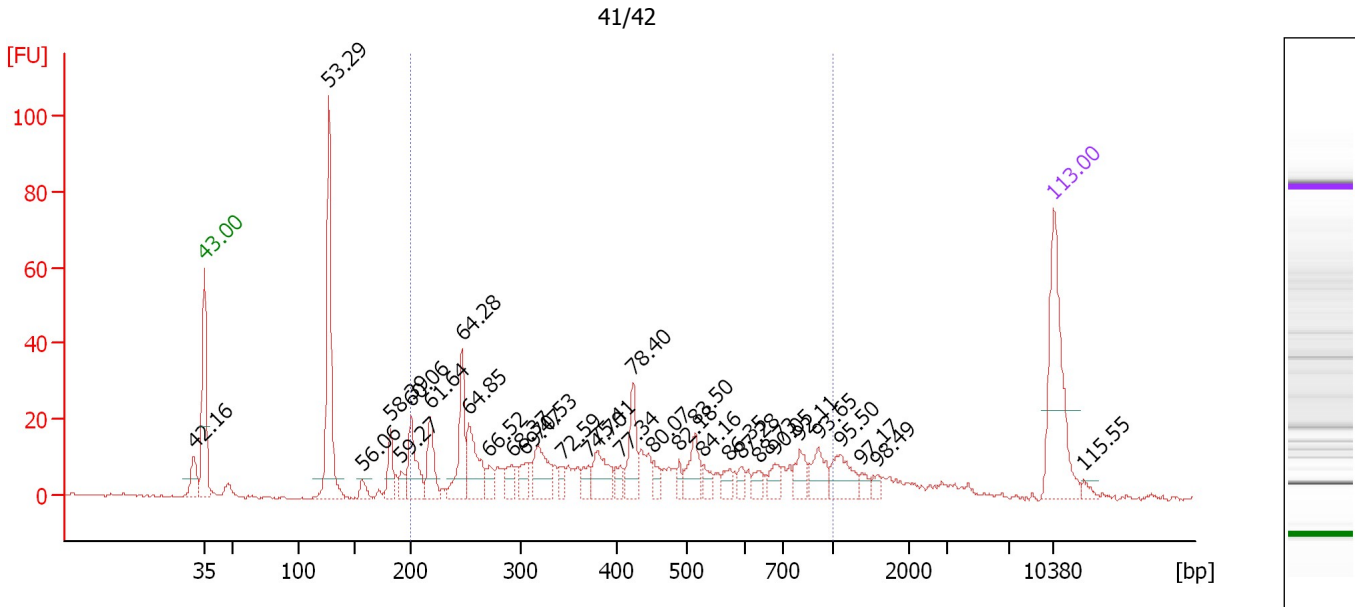
**Peak table for Ladder**

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:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

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 Modified: 3/8/2012 3:08:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 41/42**

Number of peaks found: 32                      Corr. Area 1: 433.7  
 Noise: 0.3

**Peak table for sample 3 : 41/42**

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	127	167.68	1,996.4	
4	157	9.27	89.3	
5	183	25.26	209.7	
6	192	11.21	88.5	
7	201	46.24	349.1	
8	218	35.50	246.6	
9	247	55.49	340.1	
10	254	47.91	286.3	
11	272	13.83	77.1	
12	292	14.52	75.3	
13	305	14.07	69.9	
14	318	38.25	182.1	
15	344	9.20	40.5	
16	370	12.32	50.4	
17	379	31.74	126.9	
18	405	10.37	38.8	
19	423	34.79	124.6	
20	453	9.89	33.1	
21	490	7.42	23.0	
22	516	26.78	78.7	
23	530	9.44	27.0	
24	576	9.58	25.2	
25	595	7.48	19.0	
26	637	9.01	21.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad


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 Modified: 3/8/2012 3:08:23 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 3 : 41/42**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	678	11.17	25.0	
28	801	16.34	30.9	
29	915	21.03	34.8	
30	1,112	24.94	34.0	
31	1,376	5.55	6.1	
32	1,585	4.95	4.7	
33	10,380	75.00	10.9	Upper Marker
34	12,791	0.00	0.0	

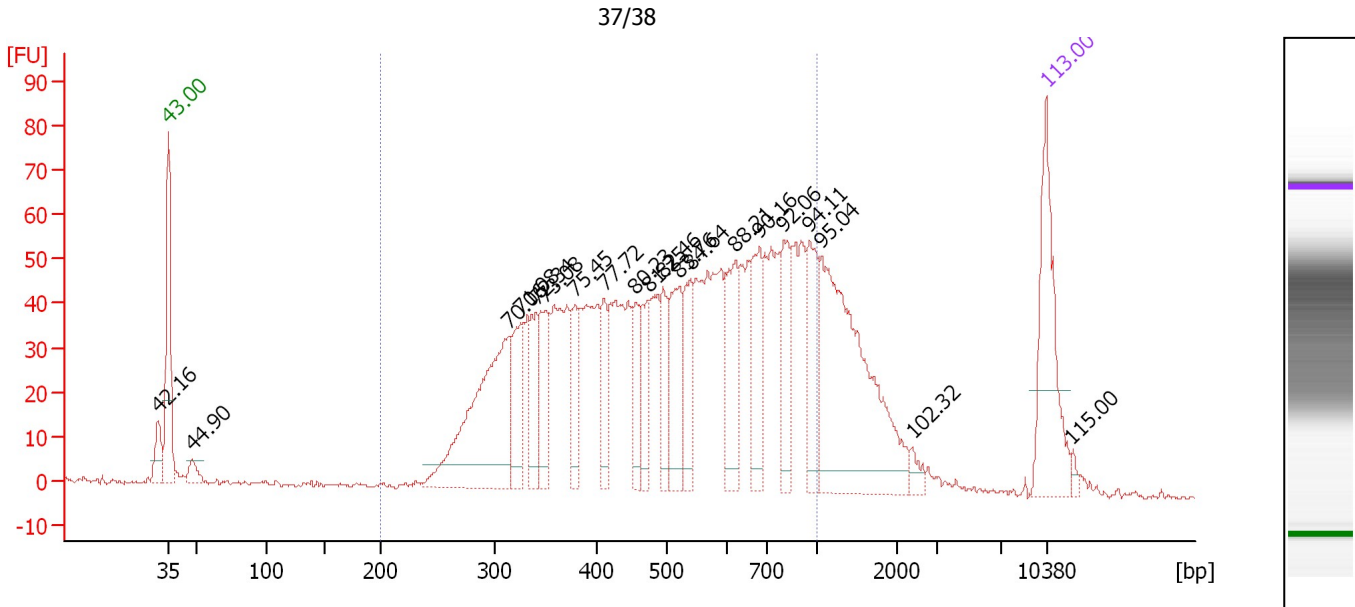
**Region table for sample 3 : 41/42**

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	2,498.6	445	570.54	1,000	433.7	67	44.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

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 Modified: 3/8/2012 3:08:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 37/38**

Number of peaks found: 20      Corr. Area 1: 1,563.2  
 Noise: 0.4

**Peak table for sample 5 : 37/38**

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	47	14.93	476.3	
4	312	190.62	924.4	
5	325	58.32	271.7	
6	341	46.90	208.5	
7	350	49.68	215.0	
8	380	34.48	137.6	
9	411	33.47	123.3	
10	456	32.24	107.2	
11	474	36.84	117.9	
12	495	33.14	101.4	
13	521	62.20	180.8	
14	540	45.17	126.8	
15	621	62.18	151.6	
16	682	58.31	129.6	
17	797	49.74	94.6	
18	949	49.63	79.2	
19	1,038	201.15	293.5	
20	2,379	7.31	4.7	
21	10,380	75.00	10.9	Upper Marker
22	12,267	0.00	0.0	

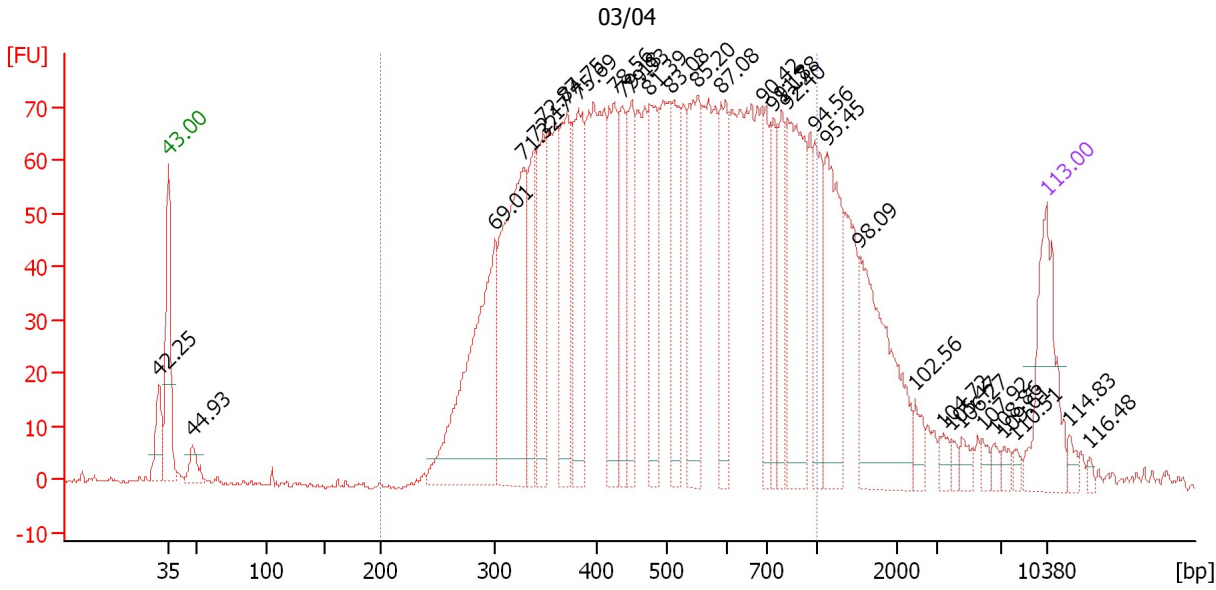
**Region table for sample 5 : 37/38**

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	5,258.0	532	1,555.23	1,000	1,563.2	83	35.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
 Modified: 3/8/2012 3:08:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 03/04**

Number of peaks found: 32                      Corr. Area 1: 2,379.2  
 Noise: 0.6

**Peak table for sample 6 : 03/04**

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	22.87	727.2	
4	299	251.40	1,271.9	
5	328	247.07	1,140.8	
6	339	72.33	323.6	
7	347	97.32	424.3	
8	371	120.92	493.9	
9	383	130.35	516.1	
10	426	104.08	370.1	
11	437	75.78	262.8	
12	450	80.63	271.3	
13	476	100.81	320.8	
14	507	83.08	248.2	
15	551	116.90	321.2	
16	591	81.76	209.7	
17	689	57.62	126.6	
18	731	55.51	115.1	
19	783	54.16	104.8	
20	822	138.58	255.6	
21	983	57.44	88.6	
22	1,104	102.44	140.5	
23	1,521	130.21	129.7	
24	2,451	13.65	8.4	
25	3,319	8.44	3.9	
26	3,908	4.97	1.9	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad


Created: 1/11/2012 9:59:56 AM  
 Modified: 3/8/2012 3:08:23 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : 03/04

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	4,534	8.75	2.9	
28	5,822	6.21	1.6	
29	6,558	5.59	1.3	
30	7,177	6.14	1.3	
31	8,023	4.71	0.9	
32	10,380	75.00	10.9	Upper Marker
33	12,115	0.00	0.0	
34	13,671	0.00	0.0	

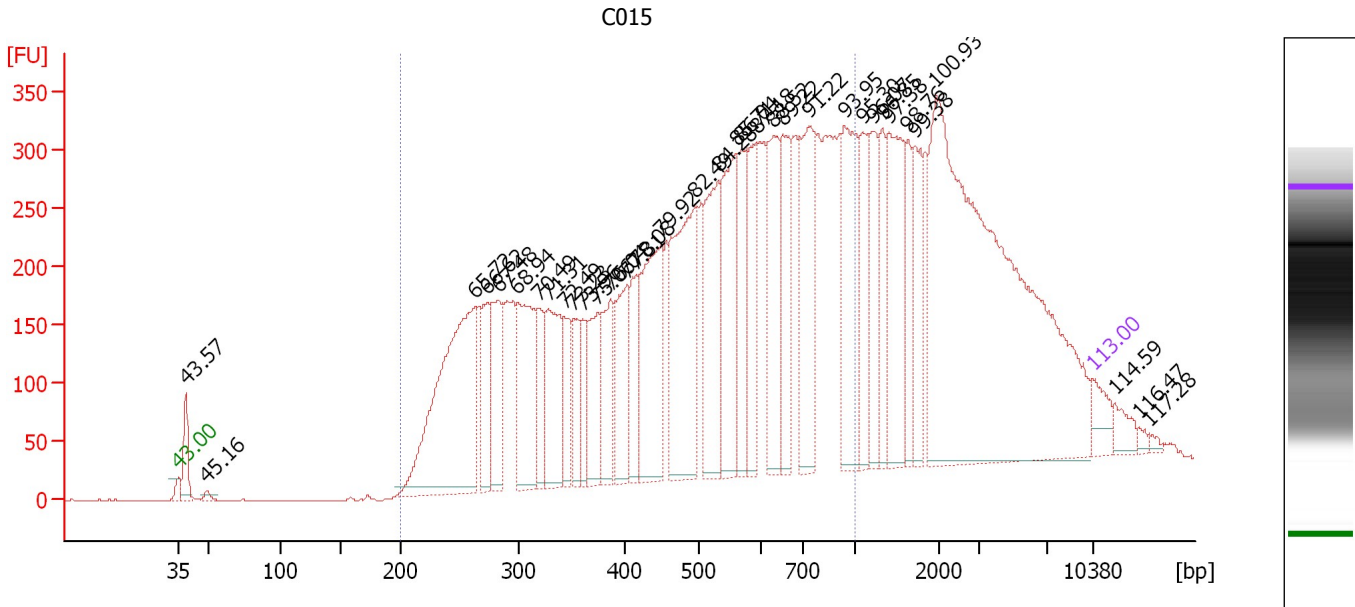
#### Region table for sample 6 : 03/04

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	10,313.3	515	2,993.74	1,000	2,379.2	82	34.6	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
 Modified: 3/8/2012 3:08:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : C015**

Number of peaks found: 35                      Corr. Area 1: 9,192.7  
 Noise: 0.3

**Peak table for sample 7 : C015**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	172.56	6,747.9	
3	49	22.52	693.8	
4	263	1,199.19	6,905.3	
5	273	274.72	1,524.6	
6	282	327.25	1,755.3	
7	299	489.84	2,484.8	
8	318	184.01	877.2	
9	328	385.86	1,782.4	
10	343	174.03	769.3	
11	352	158.28	681.5	
12	361	133.32	559.4	
13	375	251.48	1,016.6	
14	387	236.88	927.4	
15	404	310.20	1,163.6	
16	418	216.82	786.7	
17	450	545.30	1,835.7	
18	496	730.14	2,232.4	
19	532	438.25	1,247.5	
20	562	453.42	1,222.1	
21	569	288.14	767.3	
22	593	281.39	719.1	
23	631	373.61	897.1	
24	652	329.64	765.6	
25	734	491.59	1,014.9	
26	937	432.58	699.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad


Created: 1/11/2012 9:59:56 AM  
 Modified: 3/8/2012 3:08:23 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : C015**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,080	234.77	329.5	
28	1,202	217.18	273.7	
29	1,325	165.01	188.7	
30	1,409	399.19	429.3	
31	1,628	149.90	139.5	
32	1,725	215.91	189.6	
33	1,971	1,966.75	1,512.2	
34	10,380	75.00	10.9	Upper Marker
35	11,884	0.00	0.0	
36	13,658	0.00	0.0	
37	14,430	0.00	0.0	

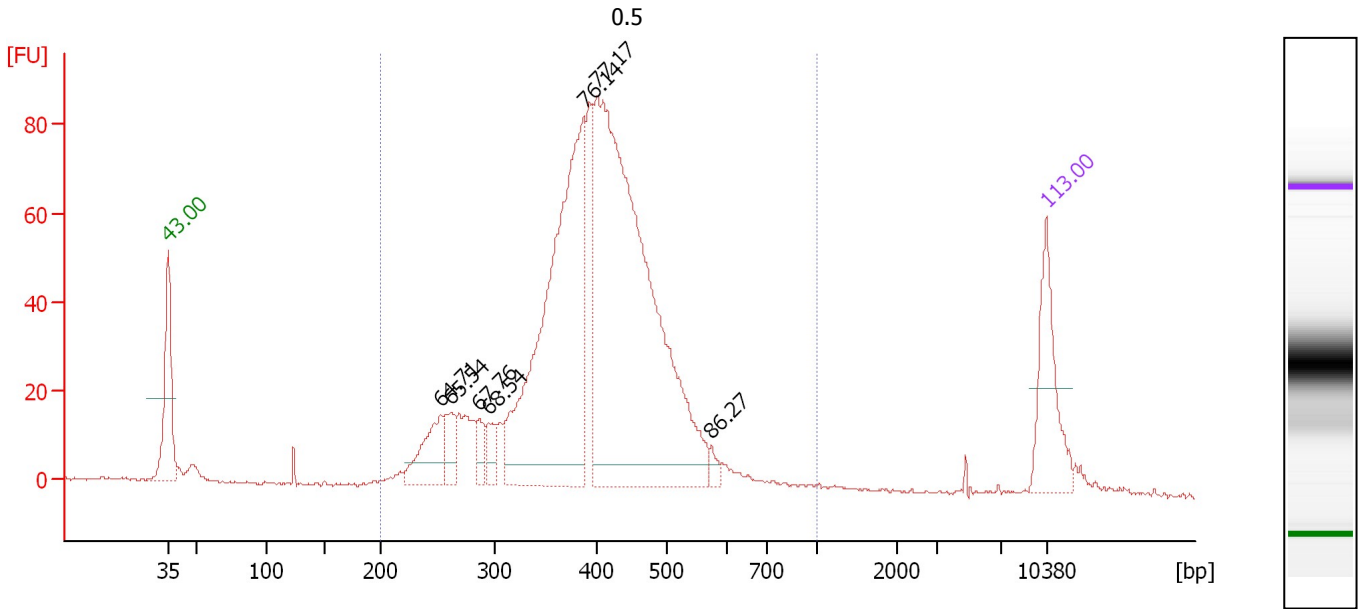
**Region table for sample 7 : C015**

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	37,601.0	523	10,291.74	1,000	9,192.7	68	38.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
 Modified: 3/8/2012 3:08:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 0.5**

Number of peaks found: 7                      Corr. Area 1: 1,176.7  
 Noise: 0.3

**Peak table for sample 10 : 0.5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	252	74.90	450.3	
3	261	35.71	207.2	
4	286	21.84	115.8	
5	294	22.29	114.8	
6	388	511.74	1,997.3	
7	402	764.75	2,885.6	
8	574	9.27	24.5	
9	10,380	75.00	10.9	Upper Marker

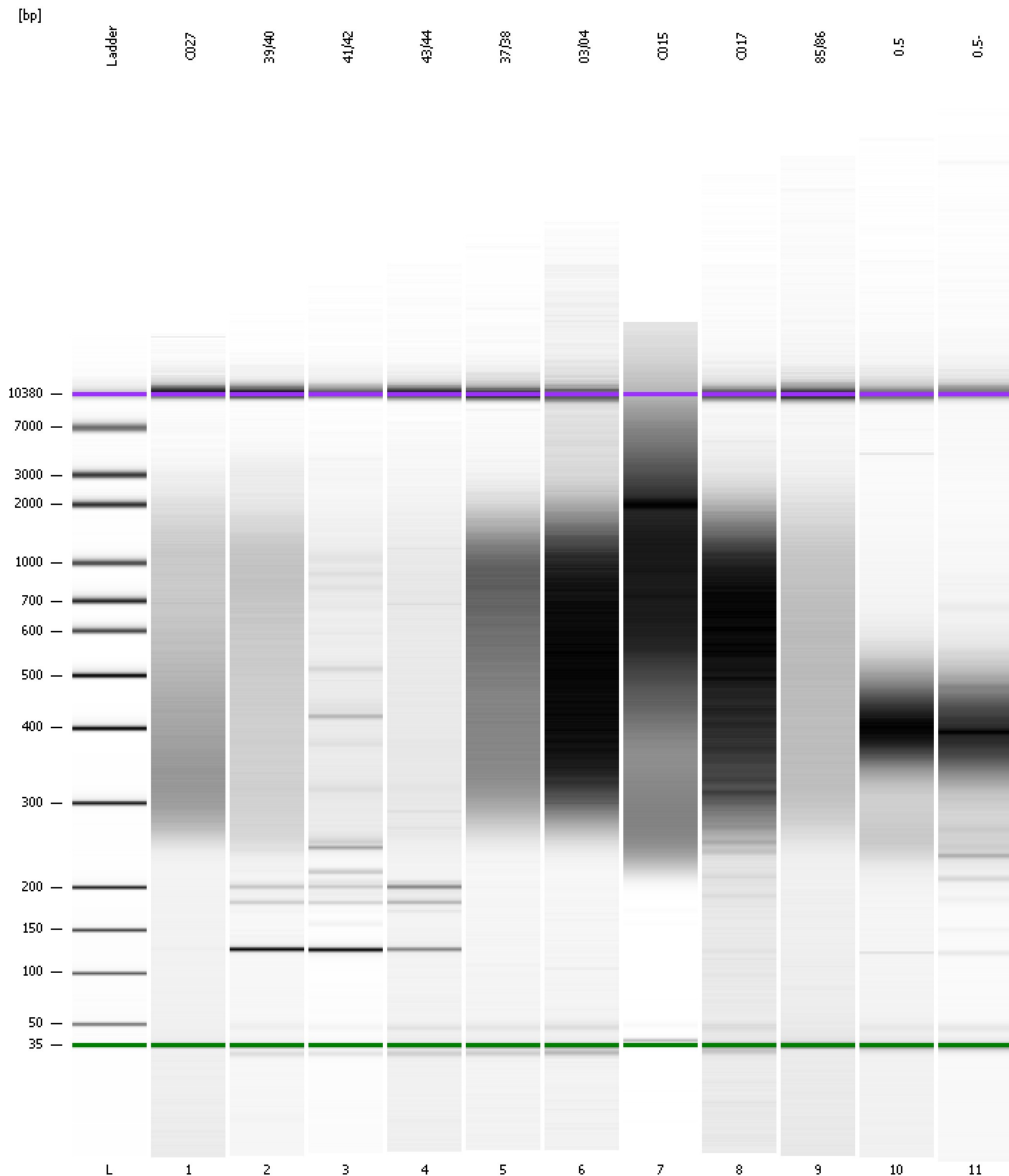
**Region table for sample 10 : 0.5**

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/μl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	6,670.5	406	1,674.64	1,000	1,176.7	96	21.1	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
Modified: 3/8/2012 3:08:23 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...t\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11\_002.xad

Created: 1/11/2012 9:59:56 AM  
 Modified: 3/8/2012 3:08:23 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		1/11/2012 10:41:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\PDFs\2012-01-11_002.xad)		Instrument	Run		1/11/2012 9:59:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/11/2012 9:59:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/11/2012 9:59:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/11/2012 9:59:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/11/2012 9:59:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/11/2012 9:59:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/11/2012 9:59:57 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1