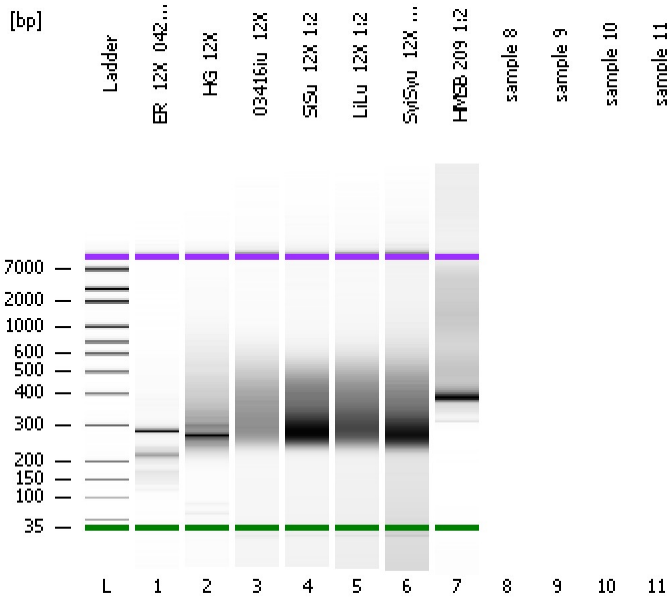


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
Modified: 4/29/2014 12:55:58 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

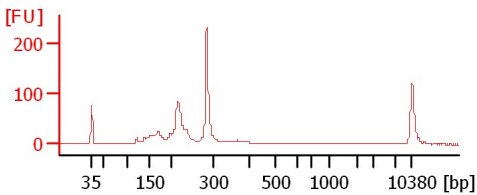
Assay Information:

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

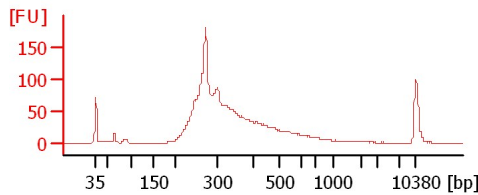
Chip Information:

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

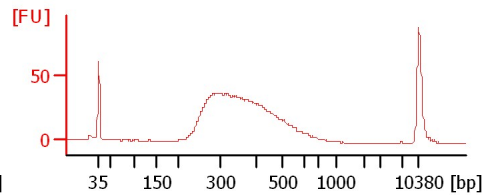
**ER\_12X\_042414**



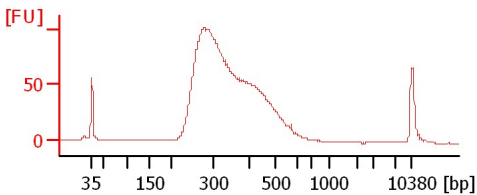
**HG\_12X**



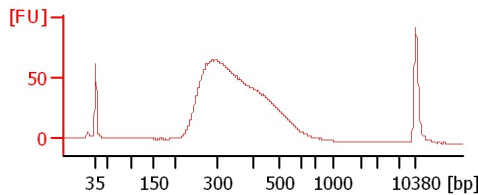
**03416iu\_12X**



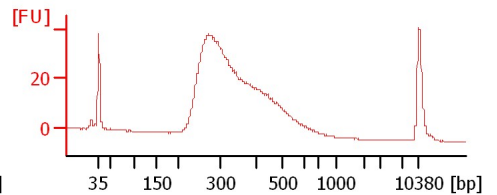
**SiSu\_12X 1:2**



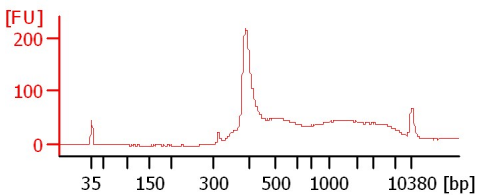
**LiLu\_12X 1:2**



**SyiSyu\_12X 1:2**



**HMSB 209 1:2**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
 Modified: 4/29/2014 12:55:58 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
ER_12X_042414		<input type="checkbox"/>	✓			
HG_12X		<input type="checkbox"/>	✓			
03416iu_12X		<input type="checkbox"/>	✓			
SiSu_12X 1:2		<input type="checkbox"/>	✓			
LiLu_12X 1:2		<input type="checkbox"/>	✓			
SyiSyu_12X 1:2		<input type="checkbox"/>	✓			
HMSB 209 1:2		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<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:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
Modified: 4/29/2014 12:55:58 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

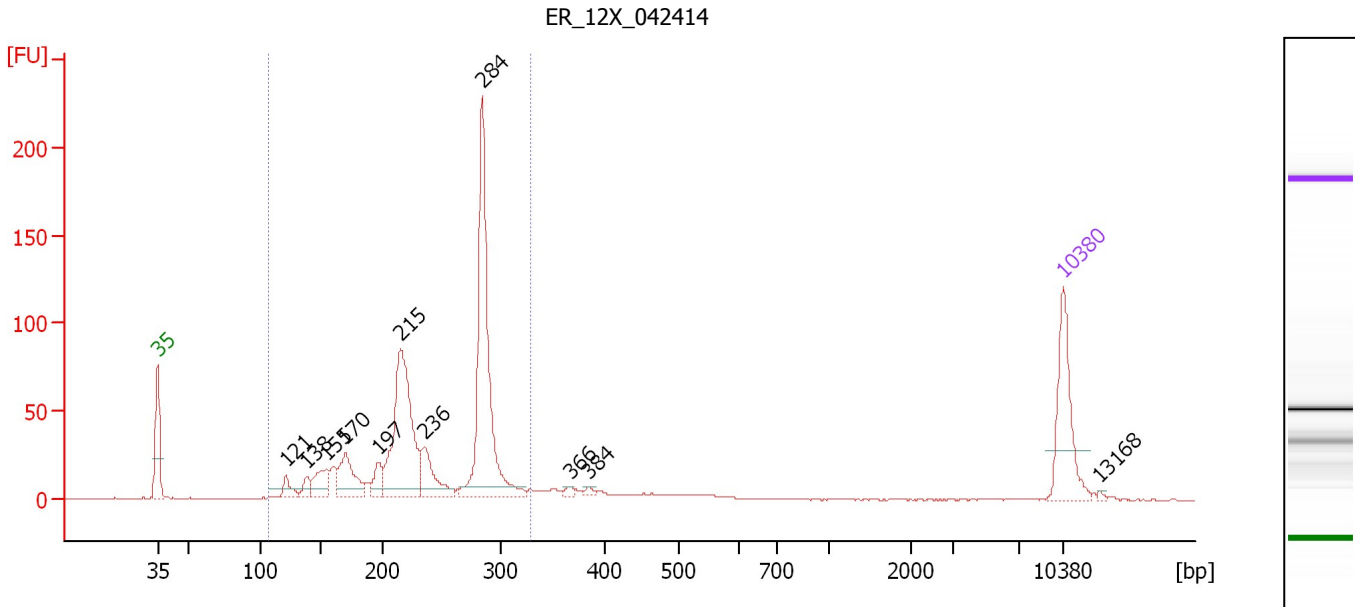
**Ladder**

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:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
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**Electropherogram Summary**



**Overall Results for sample 1 : ER\_12X\_042414**

Number of peaks found: 11      Corr. Area 1: 801.9  
 Noise: 0.2

**Peak table for sample 1 : ER\_12X\_042414**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	22.17	277.5	
3	138	17.51	191.8	
4	155	41.80	409.9	
5	170	68.48	610.0	
6	197	27.86	214.1	
7	215	240.68	1,694.6	
8	236	57.09	367.2	
9	284	302.35	1,614.9	
10	366	5.27	21.8	
11	384	5.02	19.8	
12	10,380	75.00	10.9	Upper Marker
13	13,168	0.00	0.0	

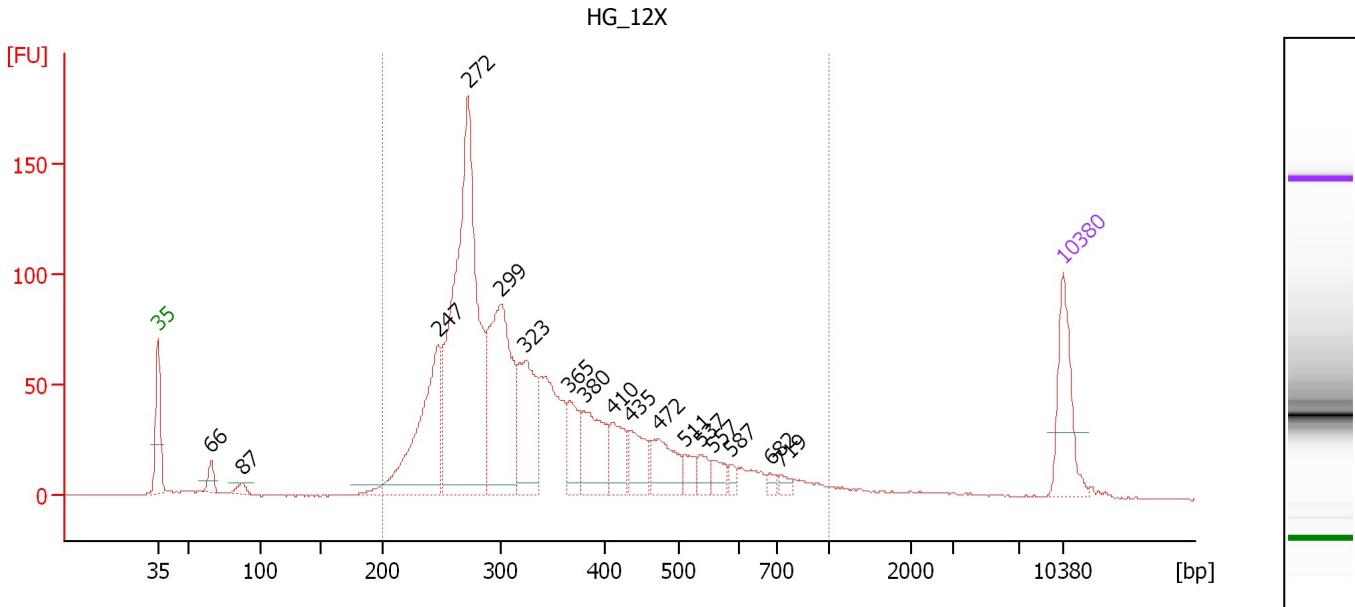
**Region table for sample 1 : ER\_12X\_042414**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
107	327	237	5,787.1	847.06	801.9	89	21.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
 Modified: 4/29/2014 12:55:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HG\_12X**

Number of peaks found: 17                      Corr. Area 1: 1,848.8  
 Noise: 0.1

**Peak table for sample 2 : HG\_12X**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	66	23.44	538.8	
3	87	13.27	230.2	
4	247	261.97	1,605.5	
5	272	652.46	3,635.7	
6	299	299.77	1,517.3	
7	323	144.35	678.1	
8	365	67.42	279.6	
9	380	100.12	399.4	
10	410	55.52	205.2	
11	435	56.34	196.3	
12	472	68.17	218.6	
13	511	22.42	66.5	
14	537	20.03	56.5	
15	557	20.83	56.7	
16	587	10.62	27.4	
17	682	7.26	16.1	
18	719	9.57	20.2	
19	10,380	75.00	10.9	Upper Marker

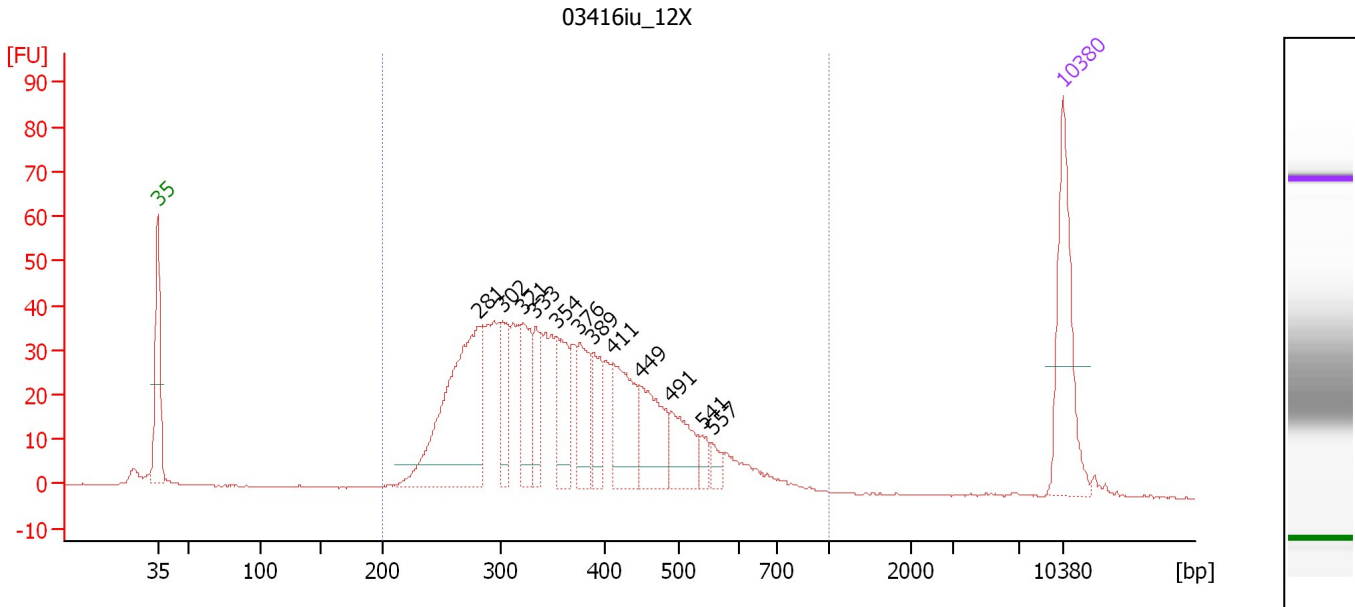
**Region table for sample 2 : HG\_12X**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	352	10,111.7	2,083.85	1,848.8	94	35.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
 Modified: 4/29/2014 12:55:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 03416iu\_12X**

Number of peaks found: 12                      Corr. Area 1: 889.9  
 Noise: 0.1

**Peak table for sample 3 : 03416iu\_12X**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	281	224.24	1,208.4	
3	302	50.65	254.5	
4	321	60.16	284.0	
5	333	38.99	177.5	
6	354	55.89	239.5	
7	376	48.53	195.8	
8	389	37.52	146.2	
9	411	75.94	280.2	
10	449	63.98	215.9	
11	491	44.61	137.7	
12	541	11.64	32.6	
13	557	10.42	28.3	
14	10,380	75.00	10.9	Upper Marker

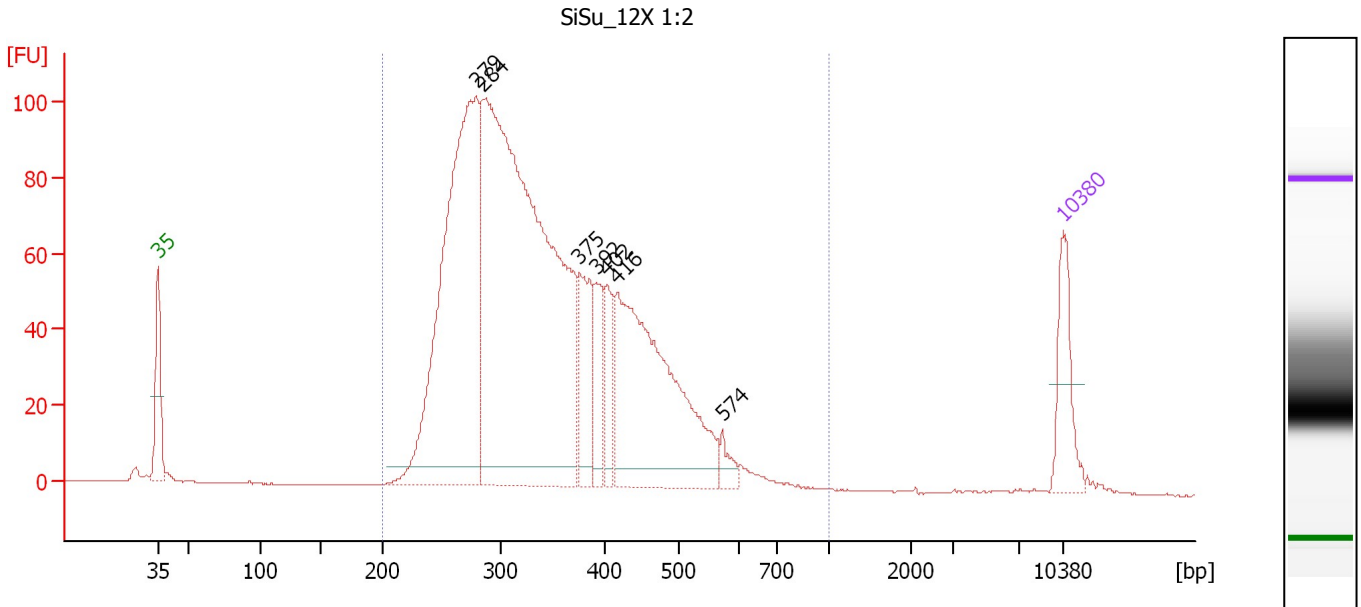
**Region table for sample 3 : 03416iu\_12X**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	374	4,702.3	1,059.63	889.9	98	27.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
 Modified: 4/29/2014 12:55:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : SiSu\_12X 1:2**

Number of peaks found: 7                      Corr. Area 1: 1,921.3  
 Noise: 0.1

**Peak table for sample 4 : SiSu\_12X 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	279	856.16	4,653.1	
3	284	1,457.55	7,769.4	
4	375	128.96	520.7	
5	392	84.27	326.1	
6	402	70.59	265.9	
7	416	498.97	1,815.2	
8	574	22.00	58.1	
9	10,380	75.00	10.9	Upper Marker

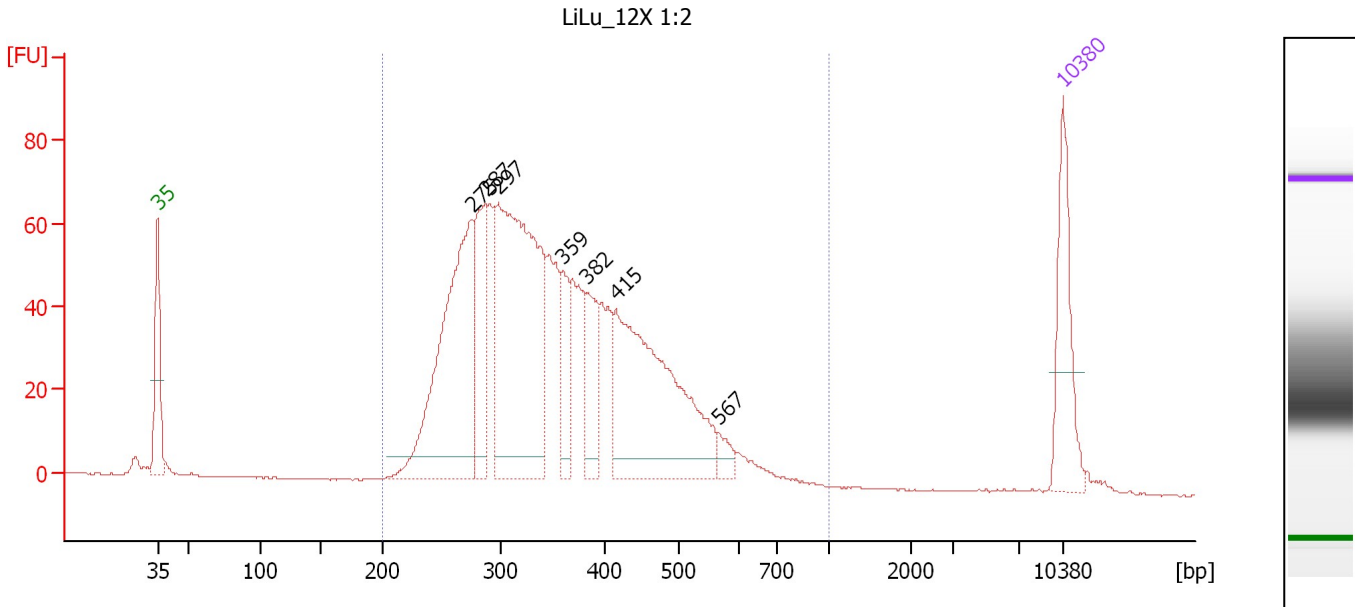
**Region table for sample 4 : SiSu\_12X 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	351	14,401.5	3,087.23	1,921.3	98	25.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

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 Modified: 4/29/2014 12:55:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : LiLu 12X 1:2**

Number of peaks found: 7                      Corr. Area 1: 1,437.8  
 Noise: 0.1

**Peak table for sample 5 : LiLu 12X 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	275	341.17	1,878.0	
3	287	110.65	583.8	
4	297	445.25	2,267.8	
5	359	54.93	231.6	
6	382	69.69	276.6	
7	415	309.97	1,132.6	
8	567	15.36	41.0	
9	10,380	75.00	10.9	Upper Marker

**Region table for sample 5 : LiLu 12X 1:2**

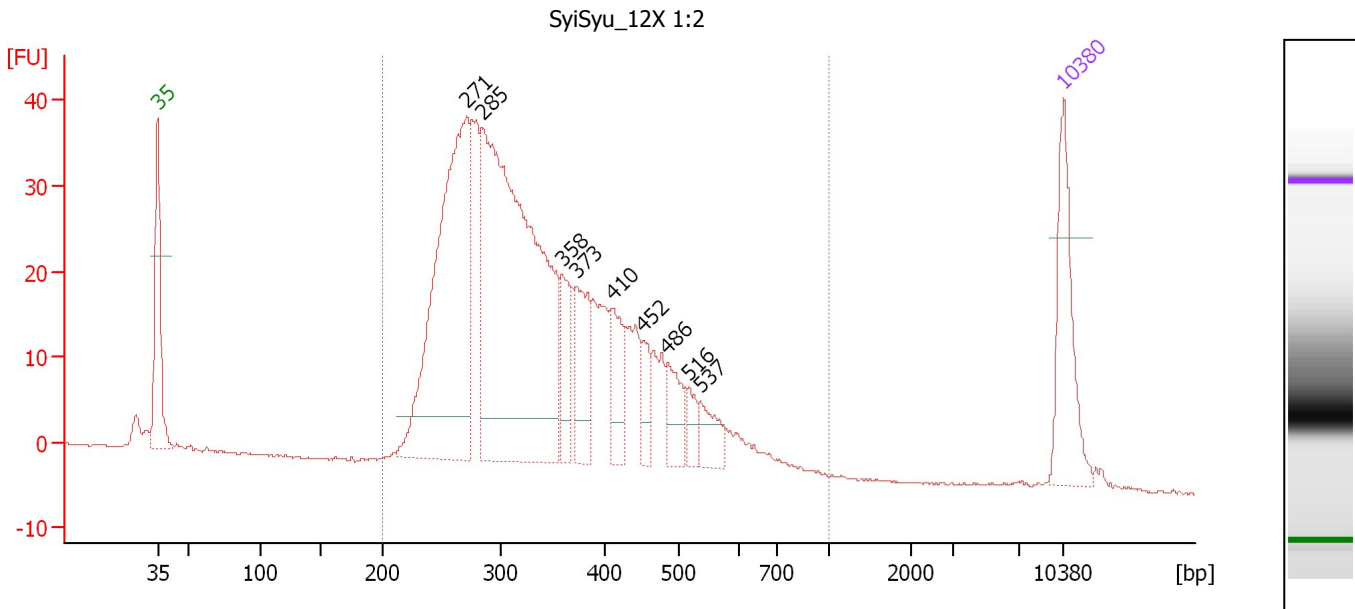
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	363	7,929.5	1,745.65	1,437.8	98	26.7	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
 Modified: 4/29/2014 12:55:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : SyiSyu\_12X 1:2**

Number of peaks found: 9                      Corr. Area 1: 751.0  
 Noise: 0.1

**Peak table for sample 6 : SyiSyu\_12X 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	271	423.45	2,368.7	
3	285	638.13	3,394.5	
4	358	55.98	236.6	
5	373	76.02	309.1	
6	410	52.59	194.3	
7	452	27.19	91.1	
8	486	39.74	124.0	
9	516	19.48	57.2	
10	537	28.26	79.8	
11	10,380	75.00	10.9	Upper Marker

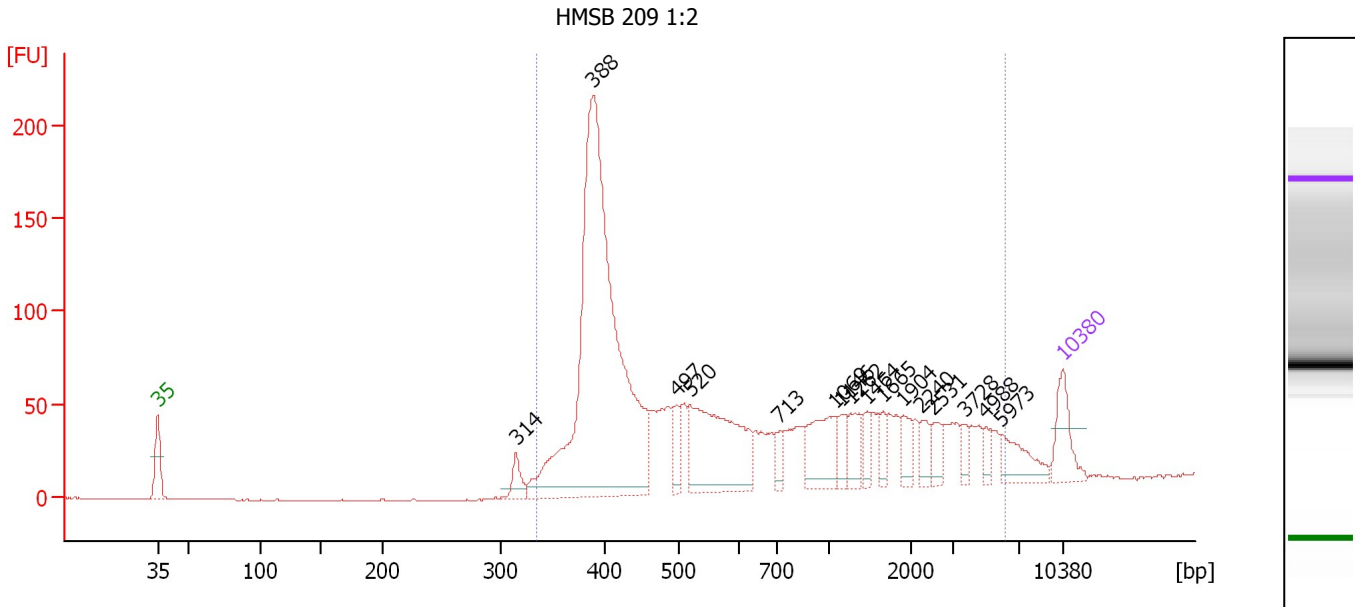
**Region table for sample 6 : SyiSyu\_12X 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	352	7,985.8	1,691.63	751.0	98	28.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
 Modified: 4/29/2014 12:55:58 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HMSB 209 1:2**

Number of peaks found: 16      Corr. Area 1: 1,804.8  
 Noise: 0.1

**Peak table for sample 7 : HMSB 209 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	314	47.92	231.3	
3	388	1,474.05	5,755.6	
4	497	59.10	180.1	
5	520	370.29	1,079.2	
6	713	34.11	72.5	
7	1,069	131.07	185.7	
8	1,146	37.99	50.2	
9	1,262	58.79	70.6	
10	1,464	33.93	35.1	
11	1,665	34.82	31.7	
12	1,904	39.73	31.6	
13	2,240	34.13	23.1	
14	2,531	36.59	21.9	
15	3,728	23.72	9.6	
16	4,988	21.83	6.6	
17	5,973	73.32	18.6	
18	10,380	75.00	10.9	Upper Marker

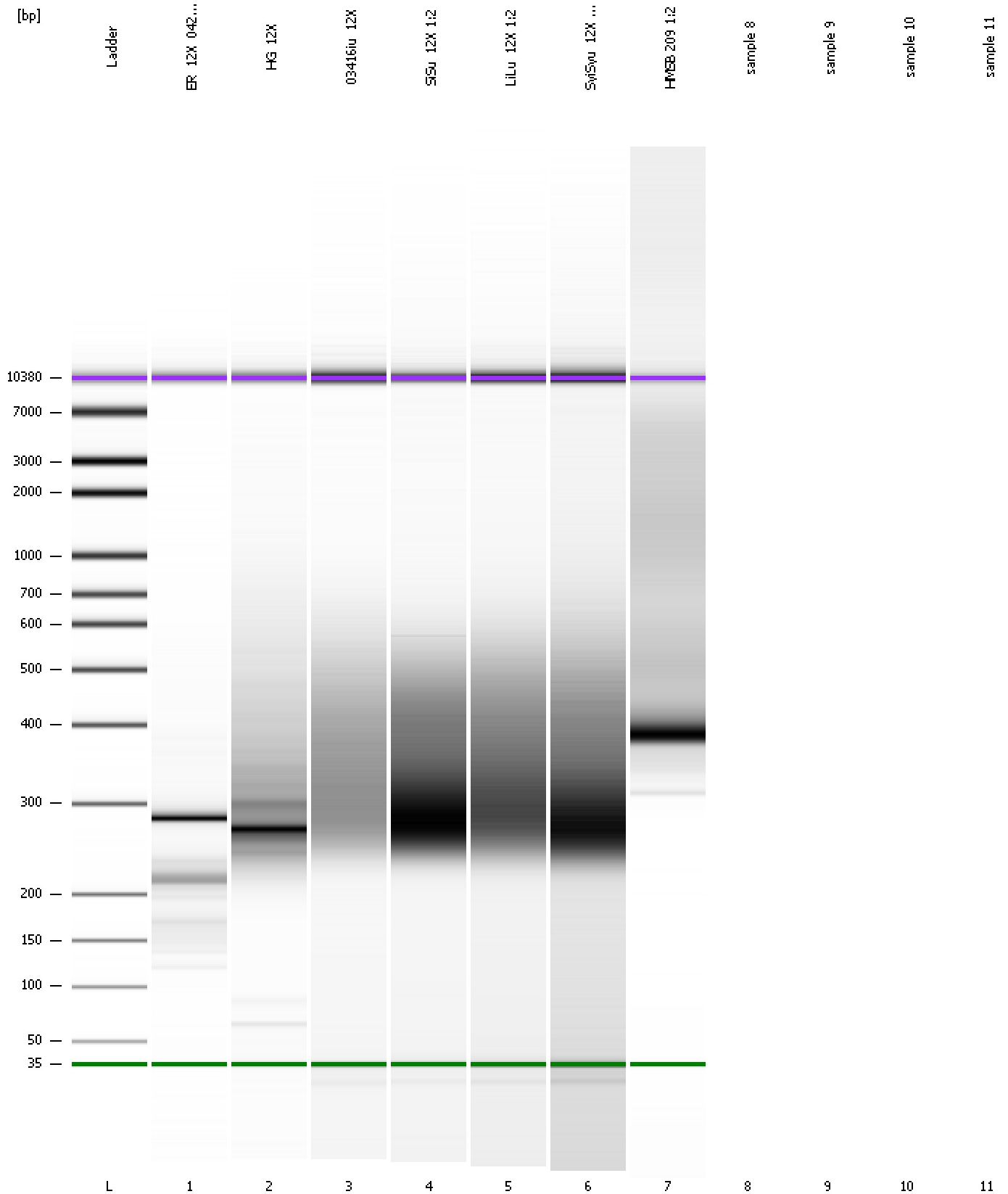
**Region table for sample 7 : HMSB 209 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
335	6,149	1,060	7,706.3	2,734.01	1,804.8	96	100.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
Modified: 4/29/2014 12:55:58 PM

**Gel Image**

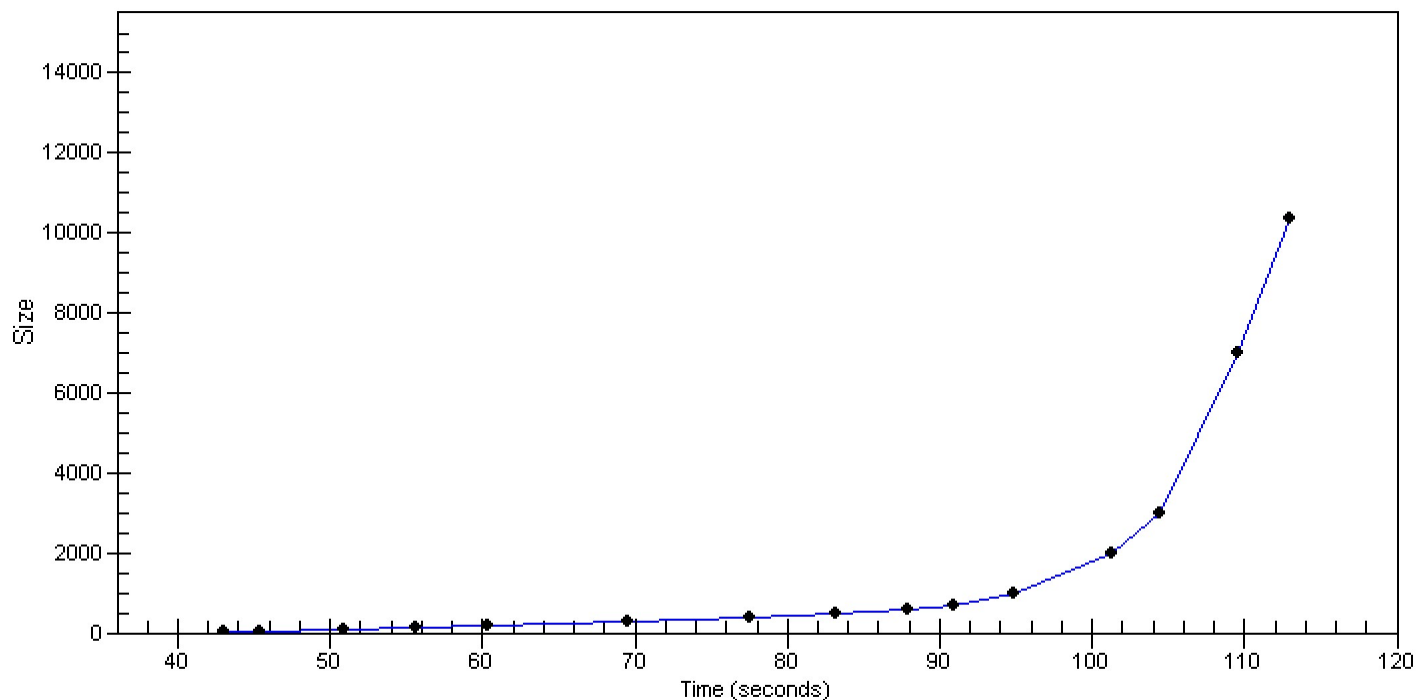


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
Modified: 4/29/2014 12:55:58 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-04-29\2014-04-29\_002.xad

Created: 4/29/2014 12:23:05 PM  
Modified: 4/29/2014 12:55:58 PM

**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.