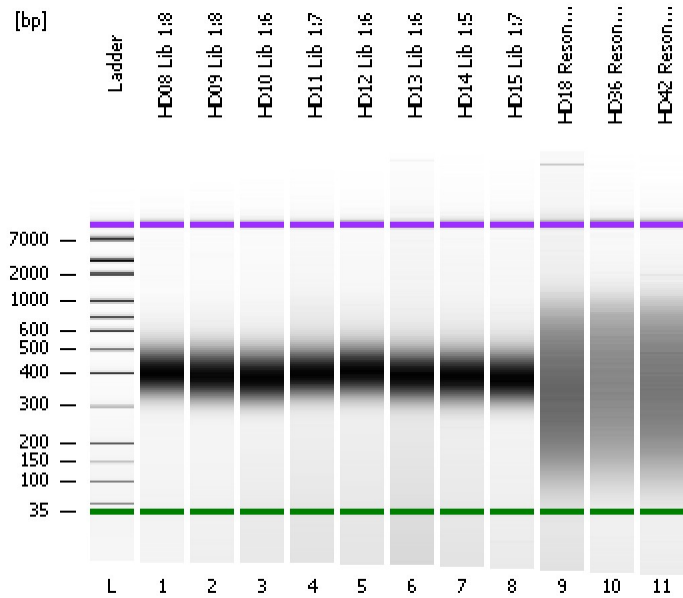


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
Modified: 12/30/2013 5:28:50 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

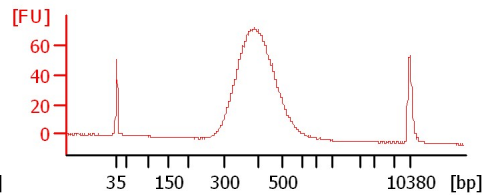
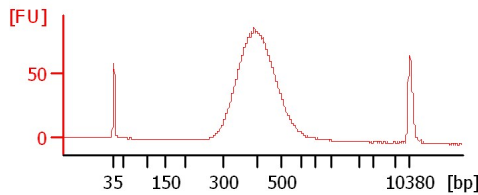
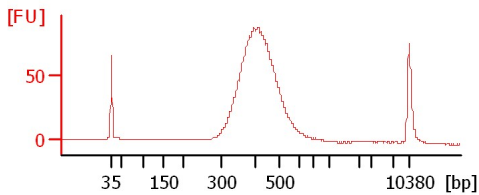
#### Chip Information:

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

HD08 Lib 1:8

HD09 Lib 1:8

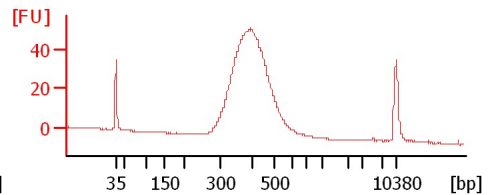
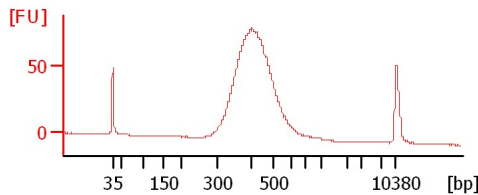
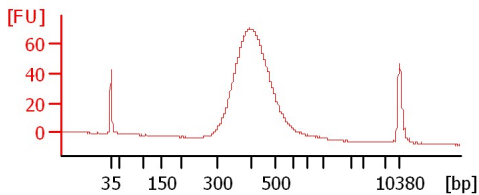
HD10 Lib 1:6



HD11 Lib 1:7

HD12 Lib 1:6

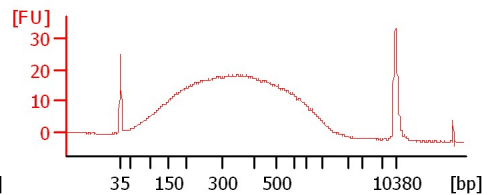
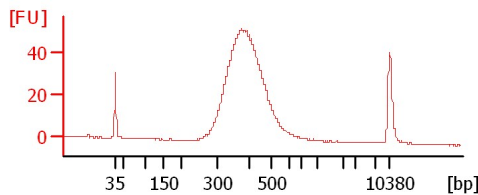
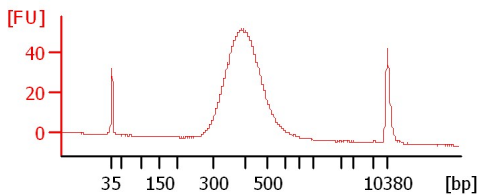
HD13 Lib 1:6



HD14 Lib 1:5

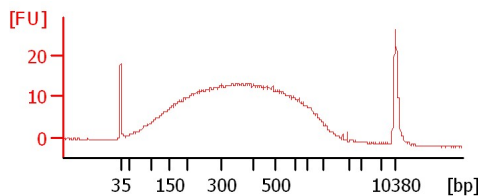
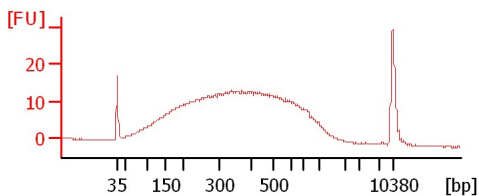
HD15 Lib 1:7

HD18 Resoni 1:6



HD36 Resoni 1:6

HD42 Resoni 1:6



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
HD08 Lib 1:8		<input type="checkbox"/>	✓			
HD09 Lib 1:8		<input type="checkbox"/>	✓			
HD10 Lib 1:6		<input type="checkbox"/>	✓			
HD11 Lib 1:7		<input type="checkbox"/>	✓			
HD12 Lib 1:6		<input type="checkbox"/>	✓			
HD13 Lib 1:6		<input type="checkbox"/>	✓			
HD14 Lib 1:5		<input type="checkbox"/>	✓			
HD15 Lib 1:7		<input type="checkbox"/>	✓			
HD18 Resoni 1:6		<input type="checkbox"/>	✓			
HD36 Resoni 1:6		<input type="checkbox"/>	✓			
HD42 Resoni 1:6		<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\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
Modified: 12/30/2013 5:28:50 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

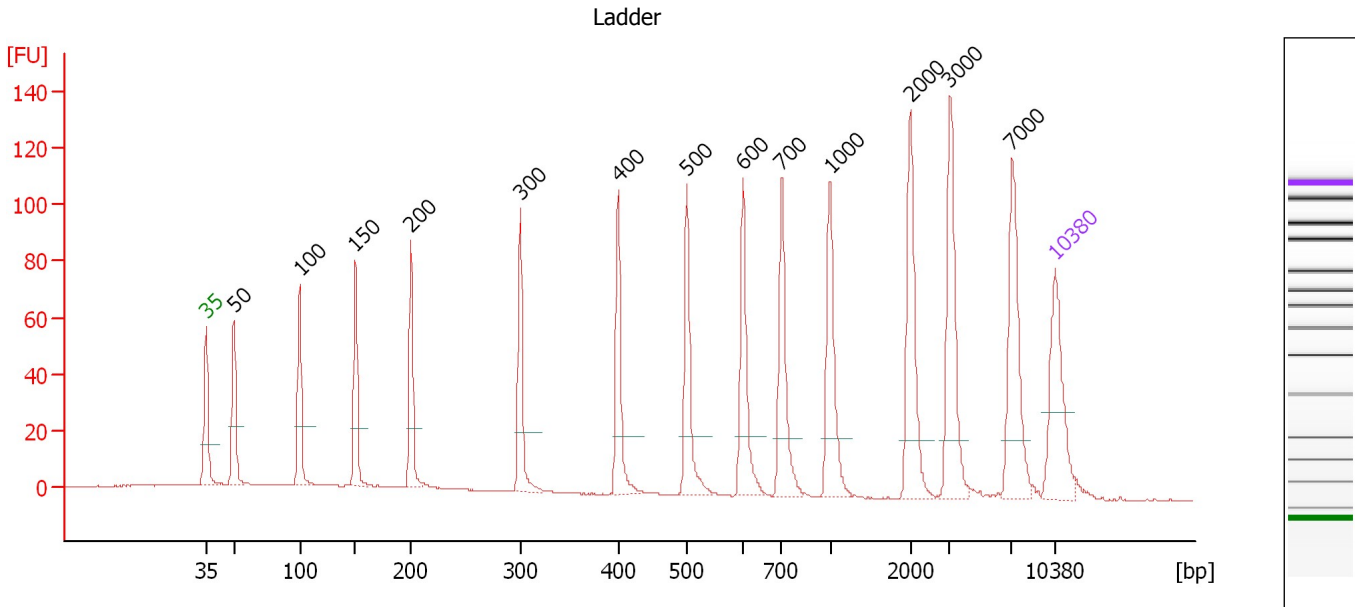
**Ladder**

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:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

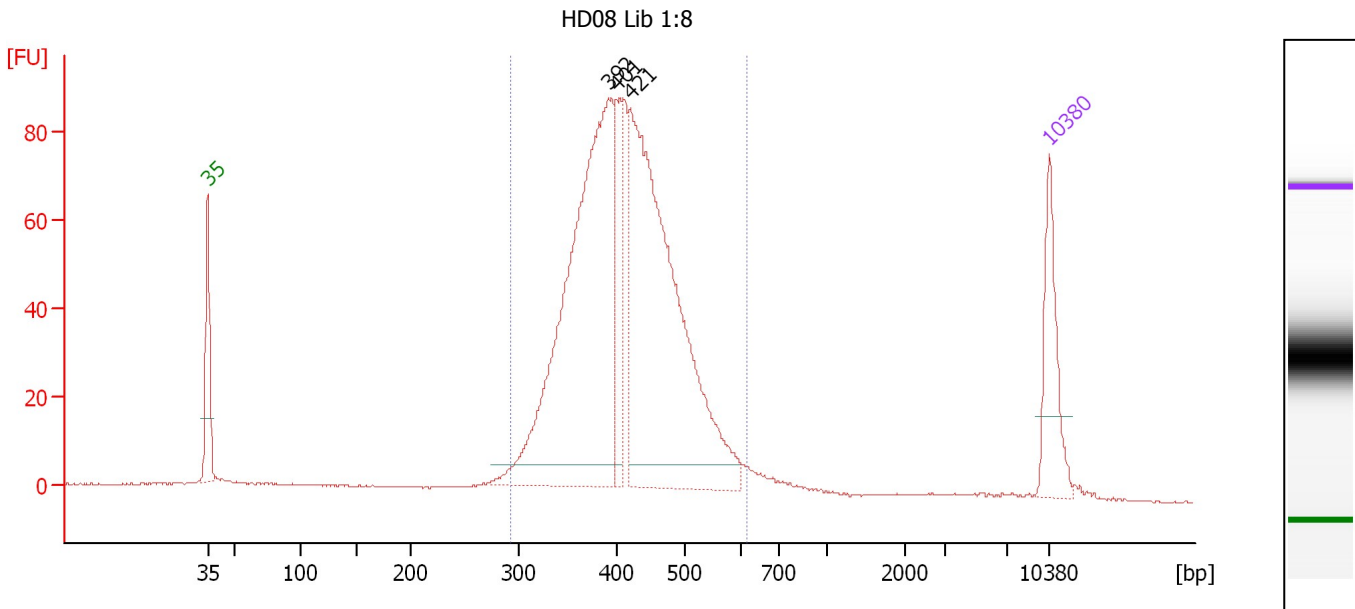
**Peak table for Ladder**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.29	50	150.00	4,545.5	Ladder Peak
3	50.69	100	150.00	2,272.7	Ladder Peak
4	55.31	150	150.00	1,515.2	Ladder Peak
5	59.88	200	150.00	1,136.4	Ladder Peak
6	68.90	300	150.00	757.6	Ladder Peak
7	76.99	400	150.00	568.2	Ladder Peak
8	82.62	500	150.00	454.5	Ladder Peak
9	87.28	600	150.00	378.8	Ladder Peak
10	90.44	700	150.00	324.7	Ladder Peak
11	94.44	1,000	150.00	227.3	Ladder Peak
12	101.08	2,000	150.00	113.6	Ladder Peak
13	104.34	3,000	150.00	75.8	Ladder Peak
14	109.44	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HD08 Lib 1:8**

Number of peaks found: 3                      Corr. Area 1: 1,199.7  
 Noise: 0.1

**Peak table for sample 1 : HD08 Lib 1:8**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.31	392	680.93	2,634.2	
3	77.02	401	102.25	386.7	
4	78.18	421	660.07	2,374.9	
5	113.00	10,380	75.00	10.9	Upper Marker

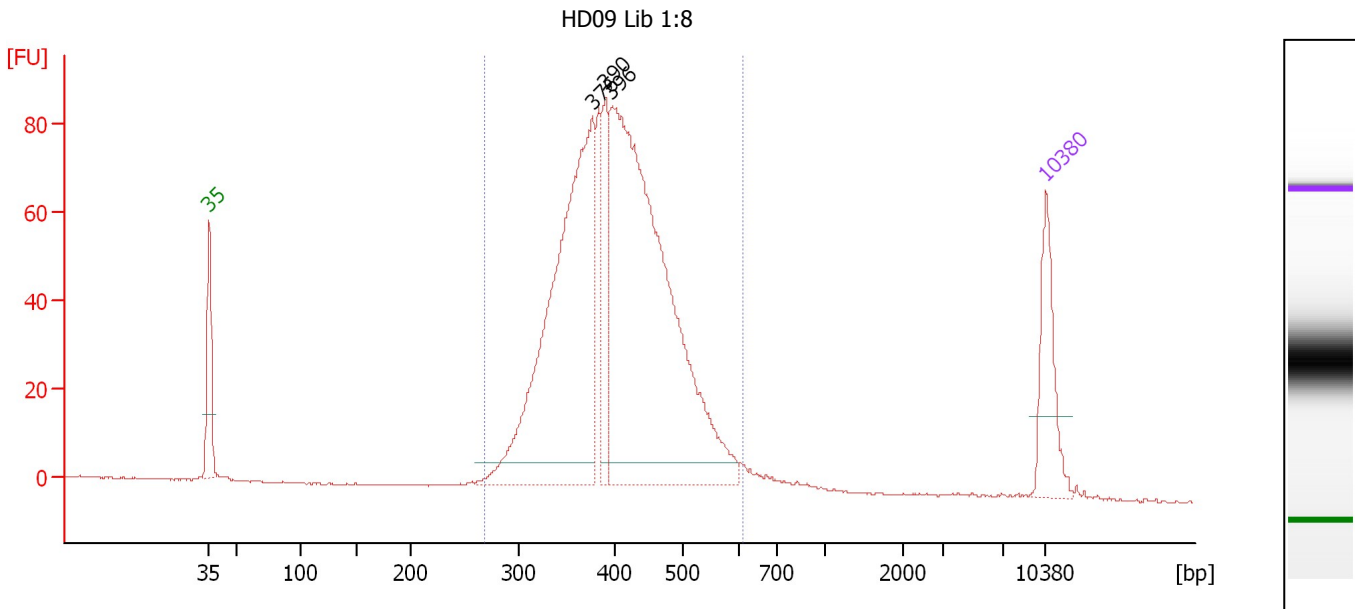
**Region table for sample 1 : HD08 Lib 1:8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
292	618	418	5,888.9	1,582.88	1,199.7	92	14.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HD09 Lib 1:8**

Number of peaks found: 3                      Corr. Area 1: 1,243.5  
 Noise: 0.2

**Peak table for sample 2 : HD09 Lib 1:8**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	75.03	376	628.51	2,533.8	
3	76.15	390	110.66	430.3	
4	76.64	396	836.99	3,205.0	
5	113.00	10,380	75.00	10.9	Upper Marker

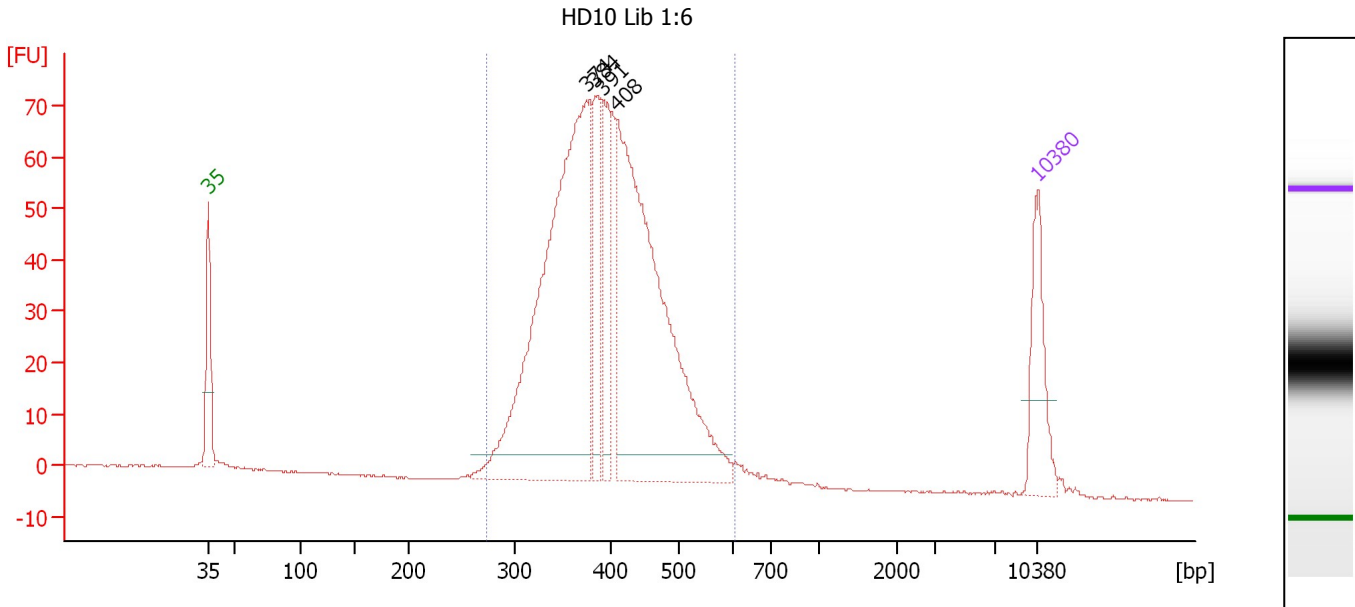
**Region table for sample 2 : HD09 Lib 1:8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
269	611	407	6,480.3	1,690.99	1,243.5	96	15.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HD10 Lib 1:6**

Number of peaks found: 4                      Corr. Area 1: 1,078.4  
 Noise: 0.2

**Peak table for sample 3 : HD10 Lib 1:6**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	74.90	374	747.63	3,027.7	
3	75.66	384	110.80	437.6	
4	76.29	391	113.71	440.2	
5	77.46	408	645.61	2,395.3	
6	113.00	10,380	75.00	10.9	Upper Marker

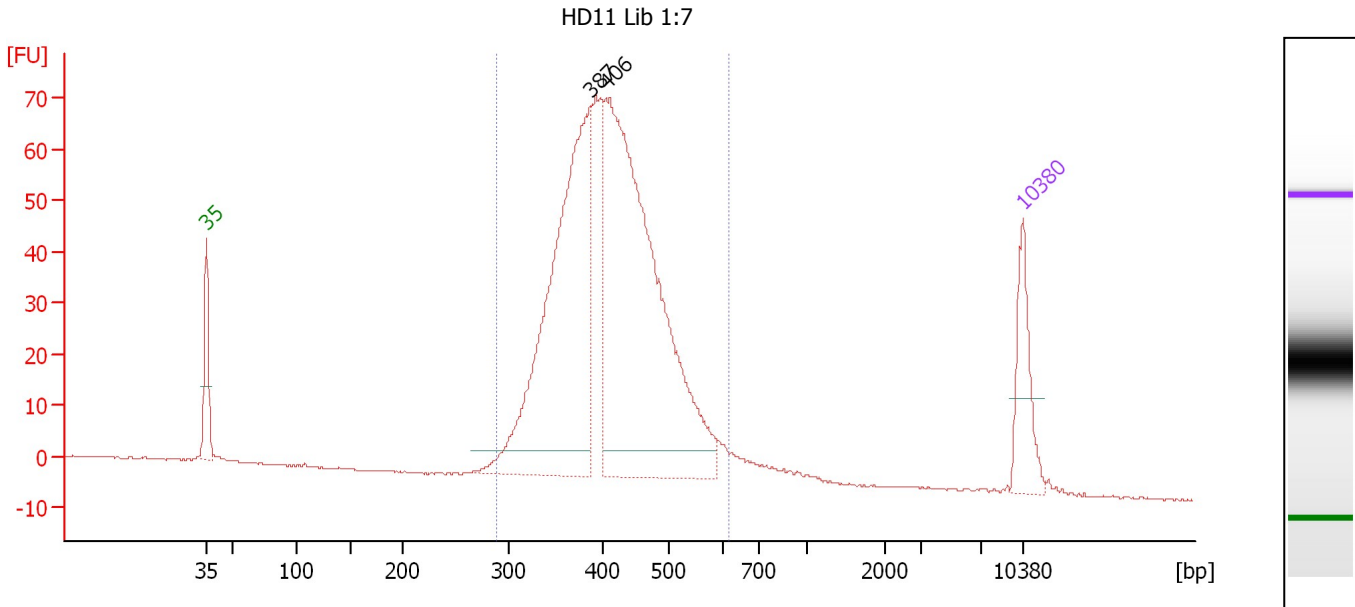
**Region table for sample 3 : HD10 Lib 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
274	603	400	6,883.1	1,765.87	1,078.4	96	15.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : HD11 Lib 1:7**

Number of peaks found: 2                      Corr. Area 1: 986.0  
 Noise: 0.1

**Peak table for sample 4 : HD11 Lib 1:7**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	75.94	387	680.49	2,663.6	
3	77.31	406	876.80	3,273.8	
4	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : HD11 Lib 1:7**

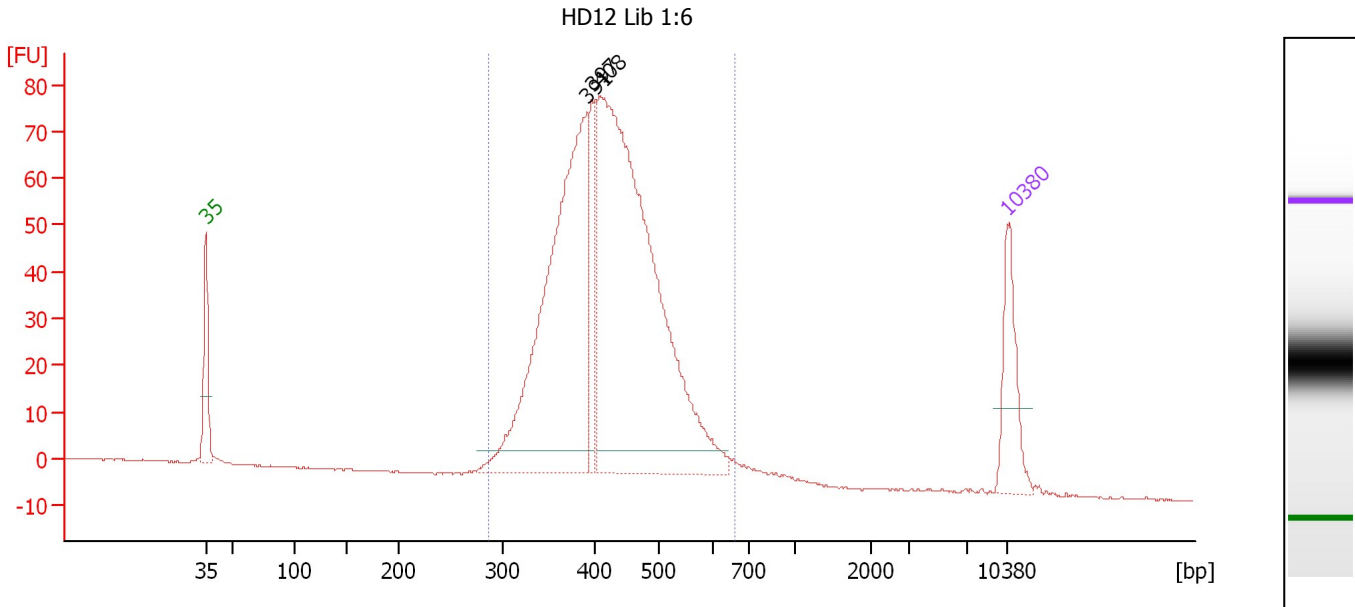
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
288	614	416	6,557.0	1,753.05	986.0	95	15.0	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : HD12 Lib 1:6**

Number of peaks found: 3                      Corr. Area 1: 1,111.3  
 Noise: 0.2

**Peak table for sample 5 : HD12 Lib 1:6**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.25	391	662.05	2,566.1	
3	76.72	397	99.34	379.4	
4	77.42	408	948.44	3,525.4	
5	113.00	10,380	75.00	10.9	Upper Marker

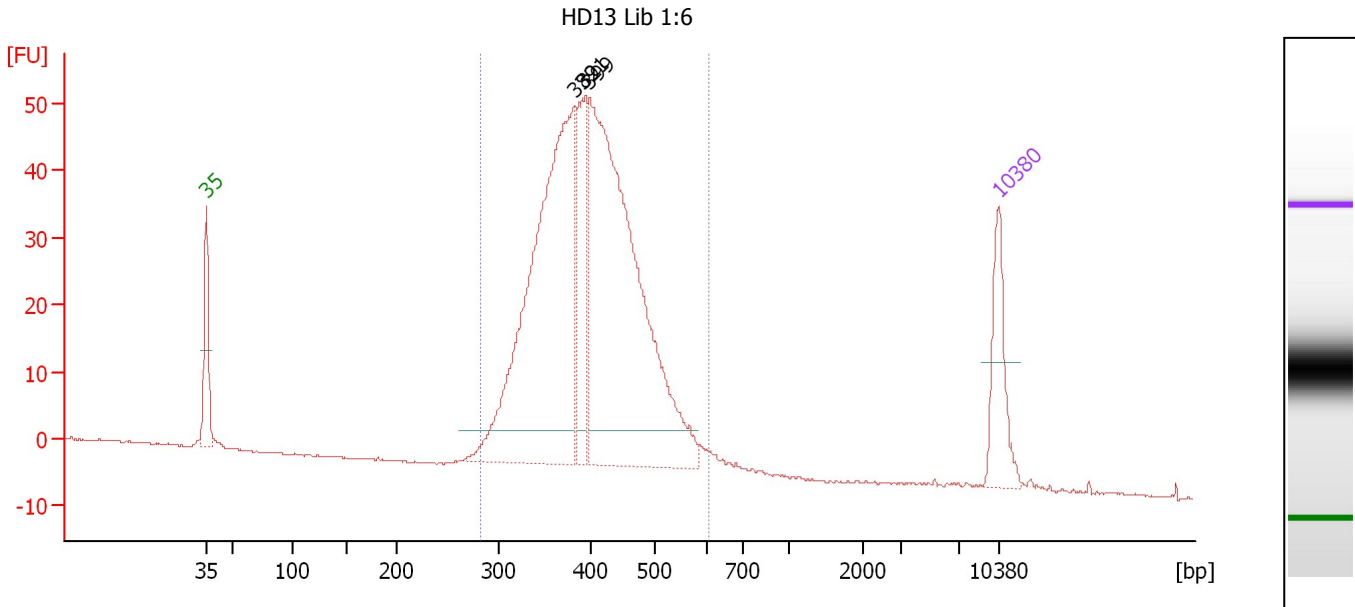
**Region table for sample 5 : HD12 Lib 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
287	658	424	6,516.3	1,769.06	1,111.3	96	15.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HD13 Lib 1:6**

Number of peaks found: 3                      Corr. Area 1: 741.4  
 Noise: 0.1

**Peak table for sample 6 : HD13 Lib 1:6**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	75.55	382	715.64	2,836.8	
3	76.26	391	153.90	596.4	
4	76.87	399	794.84	3,021.9	
5	113.00	10,380	75.00	10.9	Upper Marker

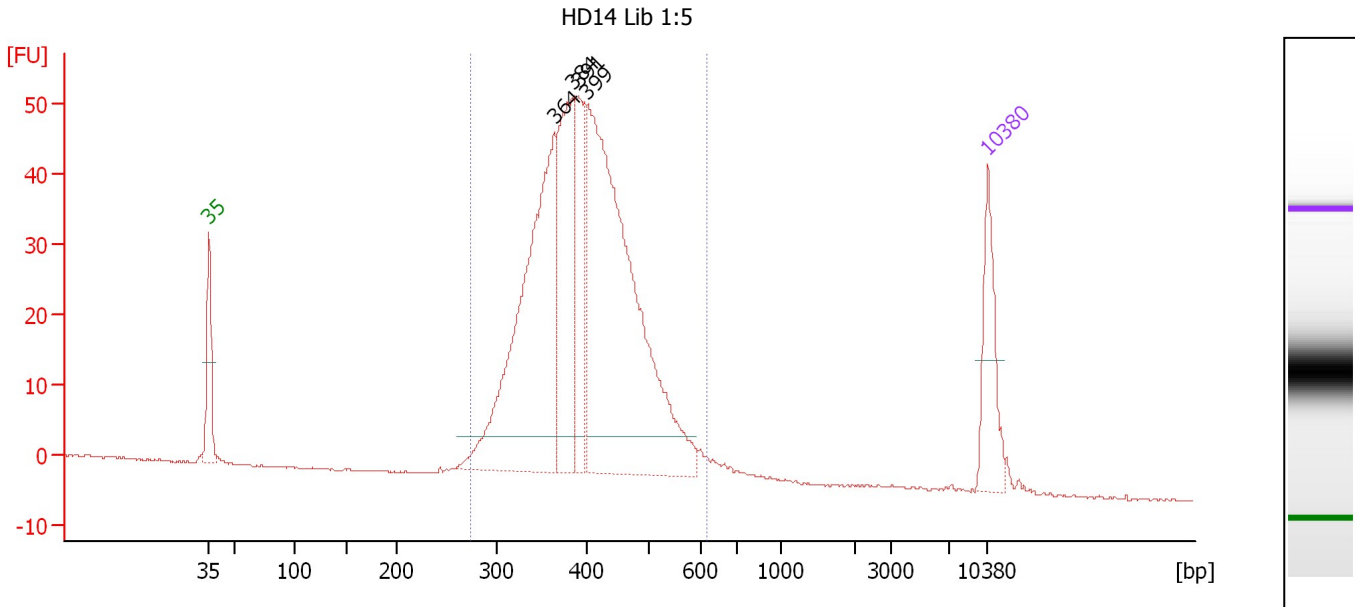
**Region table for sample 6 : HD13 Lib 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
282	604	405	6,629.3	1,725.29	741.4	97	15.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HD14 Lib 1:5**

Number of peaks found: 4                      Corr. Area 1: 738.5  
 Noise: 0.1

**Peak table for sample 7 : HD14 Lib 1:5**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	74.05	364	507.26	2,113.5	
3	75.68	384	235.06	928.0	
4	76.25	391	130.68	506.5	
5	76.92	399	707.85	2,686.8	
6	113.00	10,380	75.00	10.9	Upper Marker

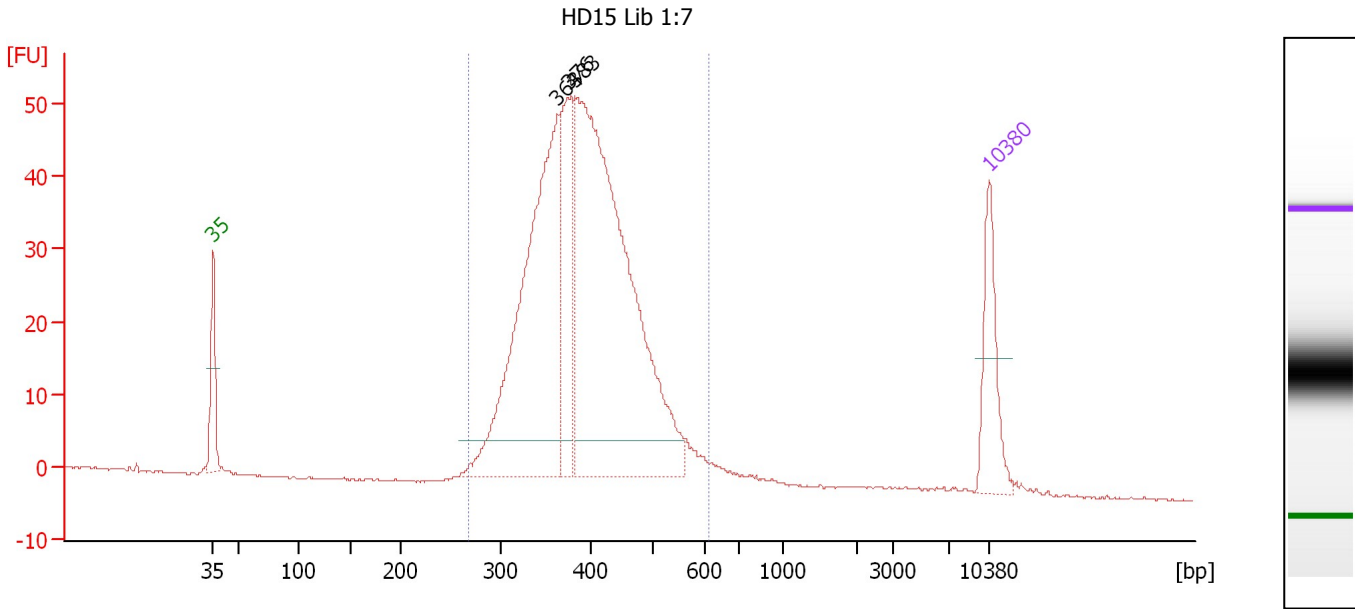
**Region table for sample 7 : HD14 Lib 1:5**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
274	615	403	6,402.0	1,653.84	738.5	97	15.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : HD15 Lib 1:7**

Number of peaks found: 3                      Corr. Area 1: 731.3  
 Noise: 0.1

**Peak table for sample 8 : HD15 Lib 1:7**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	74.06	364	554.59	2,309.9	
3	75.02	376	173.14	698.3	
4	75.60	383	827.01	3,273.5	
5	113.00	10,380	75.00	10.9	Upper Marker

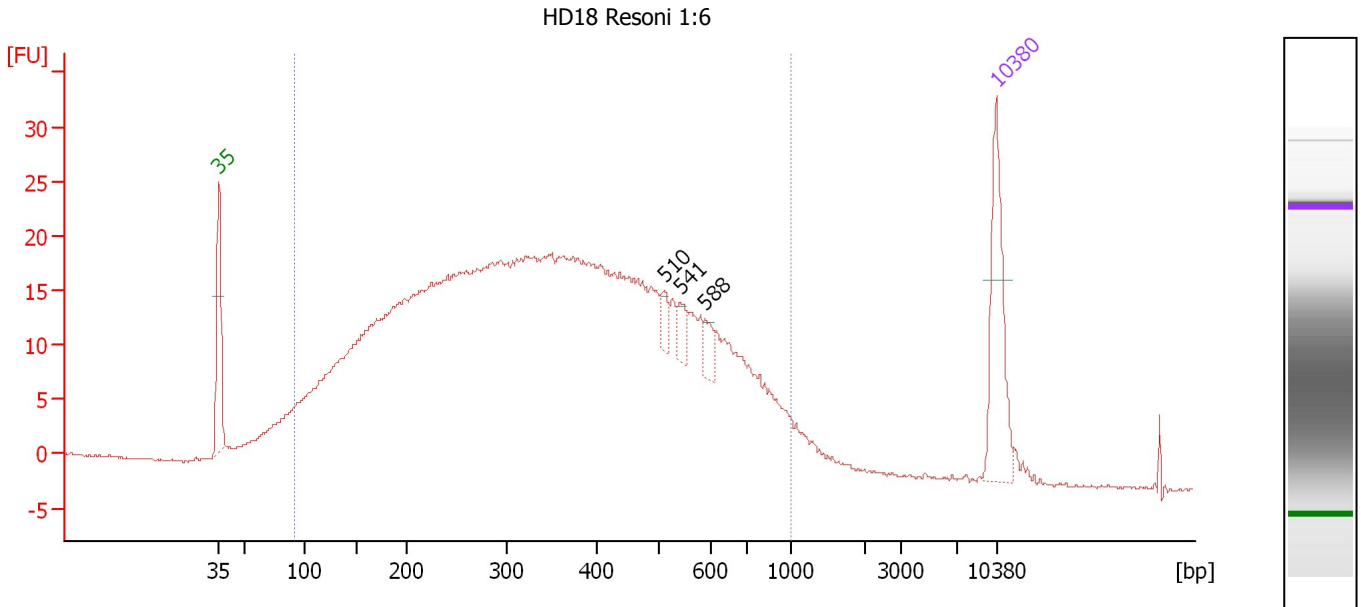
**Region table for sample 8 : HD15 Lib 1:7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
268	614	399	6,375.6	1,628.07	731.3	96	15.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : HD18 Resoni 1:6**

Number of peaks found: 3                      Corr. Area 1: 904.6  
 Noise: 0.1

**Peak table for sample 9 : HD18 Resoni 1:6**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	83.09	510	14.60	43.4	
3	84.53	541	14.99	42.0	
4	86.74	588	14.48	37.3	
5	113.00	10,380	75.00	10.9	Upper Marker

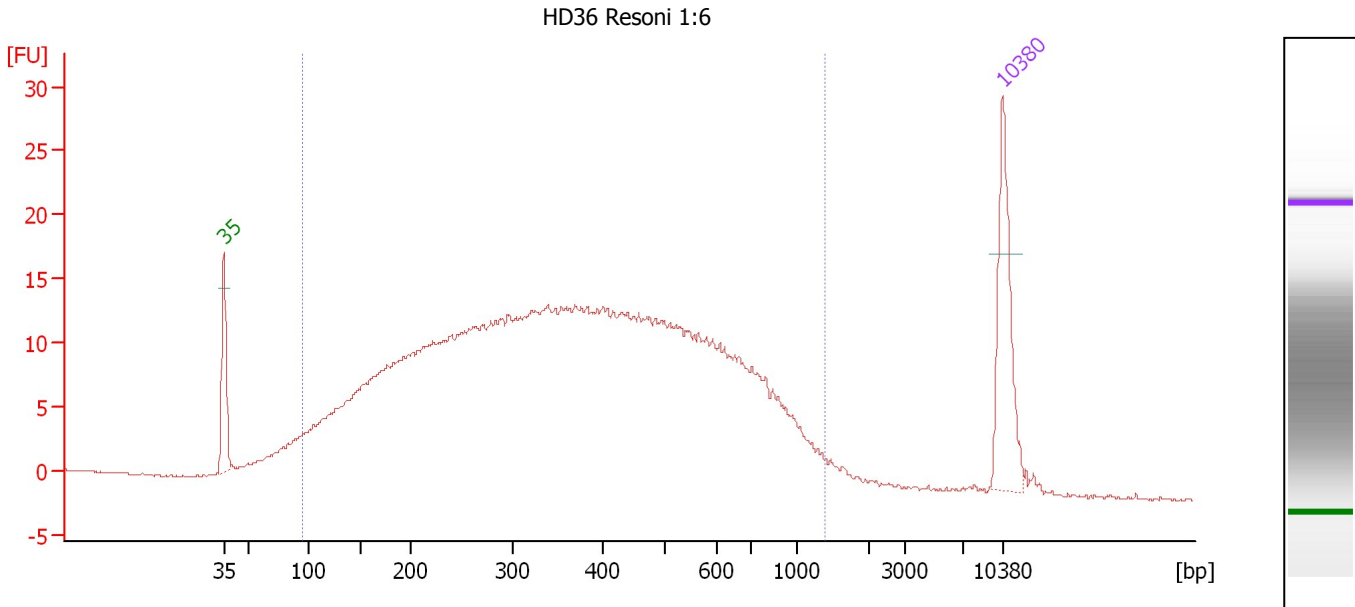
**Region table for sample 9 : HD18 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
92	1,000	372	16,990.9	2,896.86	904.6	94	47.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : HD36 Resoni 1:6**

Number of peaks found: 0                      Corr. Area 1: 647.7  
 Noise: 0.1

**Peak table for sample 10 : HD36 Resoni 1:6**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

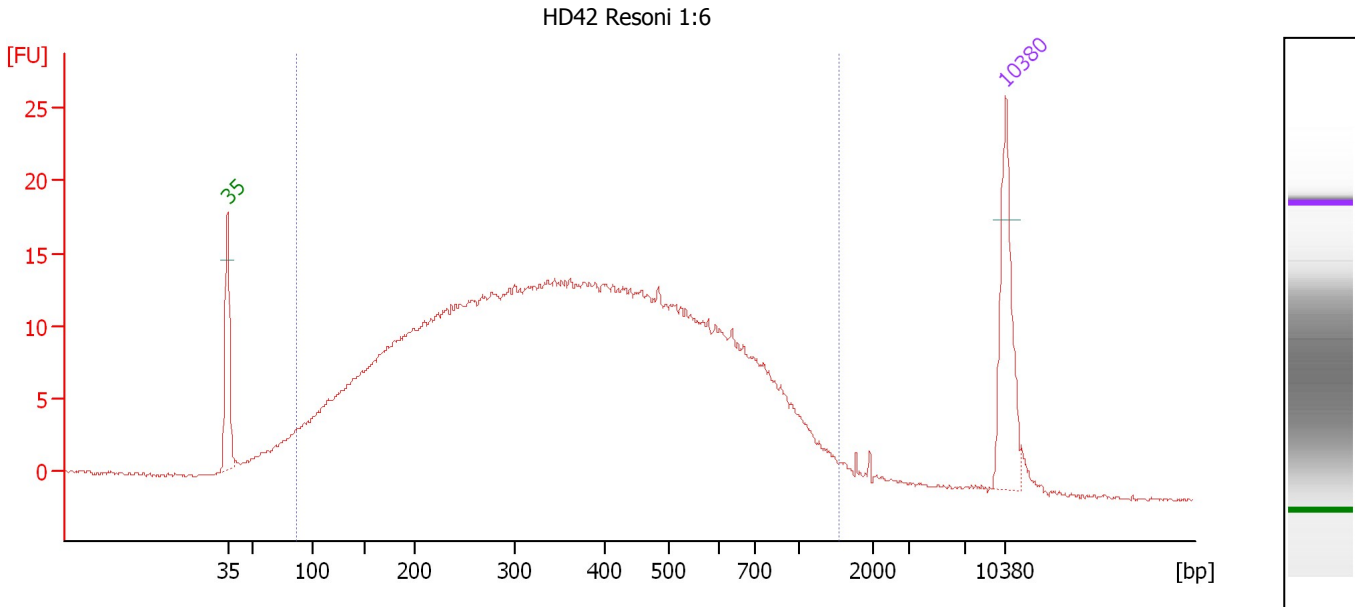
**Region table for sample 10 : HD36 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
94	1,394	407	12,422.1	2,228.93	647.7	95	52.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
 Modified: 12/30/2013 5:28:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HD42 Resoni 1:6**

Number of peaks found: 0      Corr. Area 1: 669.6  
 Noise: 0.1

**Peak table for sample 11 : HD42 Resoni 1:6**

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	113.00	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : HD42 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
87	1,542	404	16,626.1	2,876.66	669.6	95	55.8	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-30\2013-12-30\_002.xad

Created: 12/30/2013 4:42:36 PM  
Modified: 12/30/2013 5:28:50 PM

**Gel Image**

