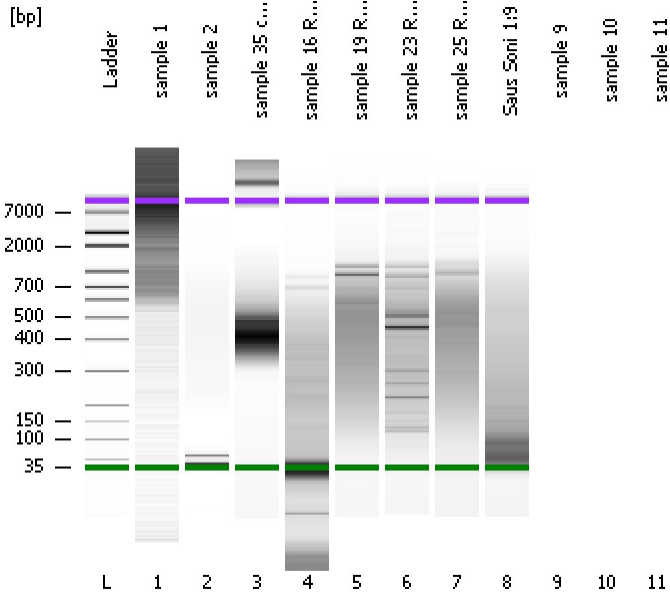


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
Modified: 4/22/2013 12:52:27 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

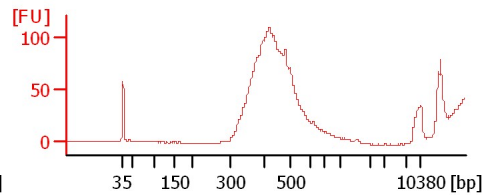
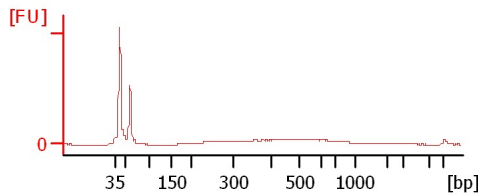
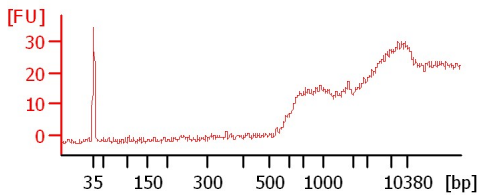
Chip Information:

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

**sample 1**

**sample 2**

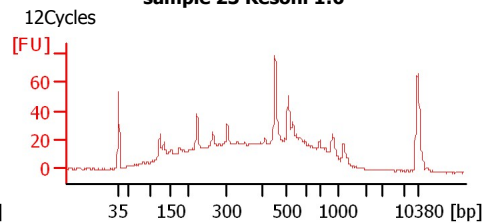
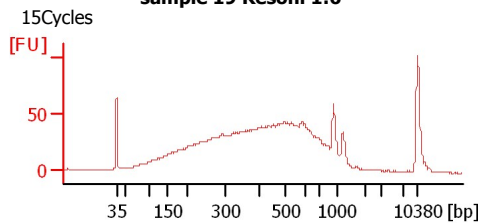
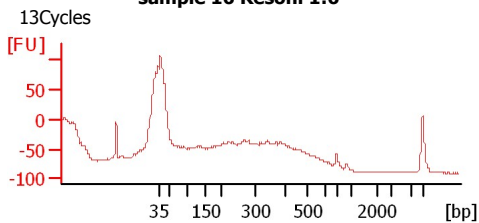
**sample 35 cDNA Lib 1:7**



**sample 16 Resoni 1:6**

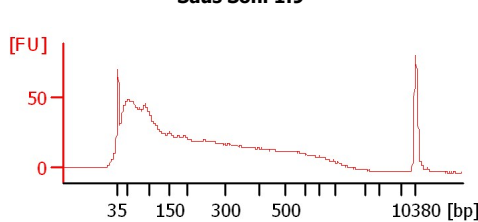
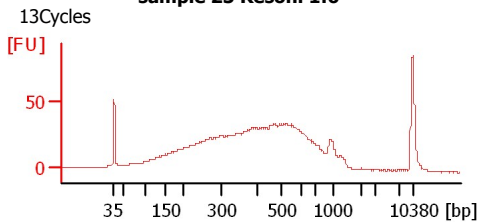
**sample 19 Resoni 1:6**

**sample 23 Resoni 1:6**



**sample 25 Resoni 1:6**

**Saus Soni 1:9**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
 Modified: 4/22/2013 12:52:27 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 35 cDNA Lib 1:7		<input type="checkbox"/>	✓			
sample 16 Resoni 1:6	13Cycles	<input type="checkbox"/>	✓			
sample 19 Resoni 1:6	15Cycles	<input type="checkbox"/>	✓			
sample 23 Resoni 1:6	12Cycles	<input type="checkbox"/>	✓			
sample 25 Resoni 1:6	13Cycles	<input type="checkbox"/>	✓			
Saus Soni 1:9		<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:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
Modified: 4/22/2013 12:52:27 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

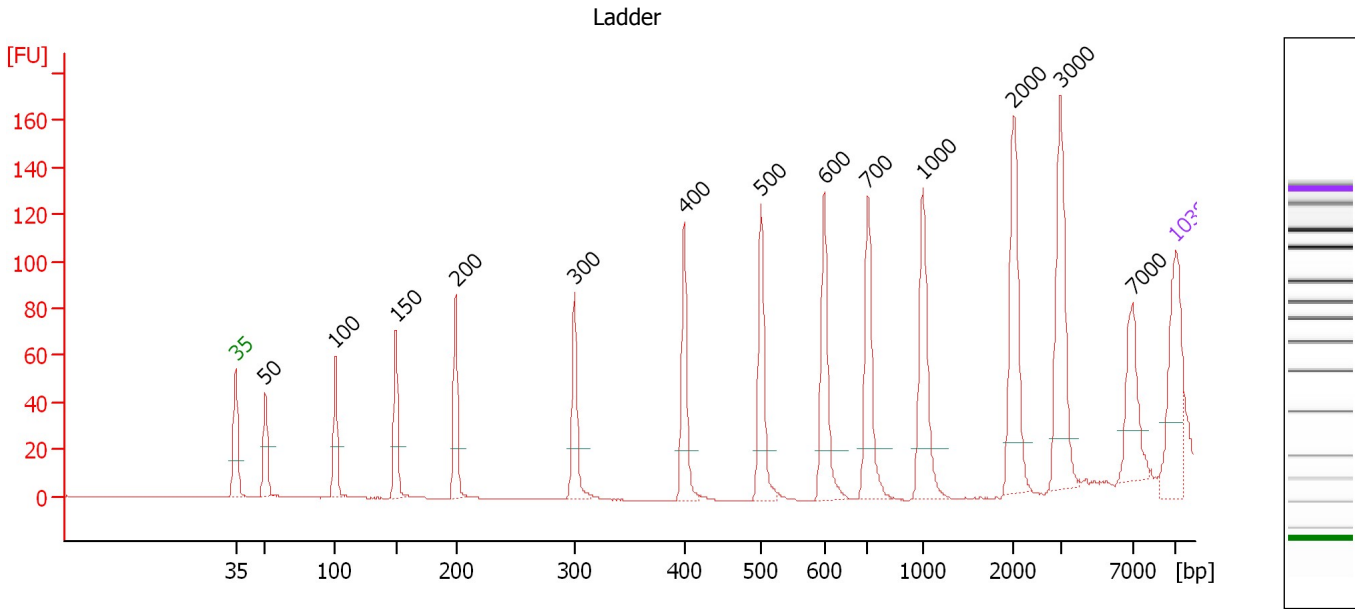
**Ladder**

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\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

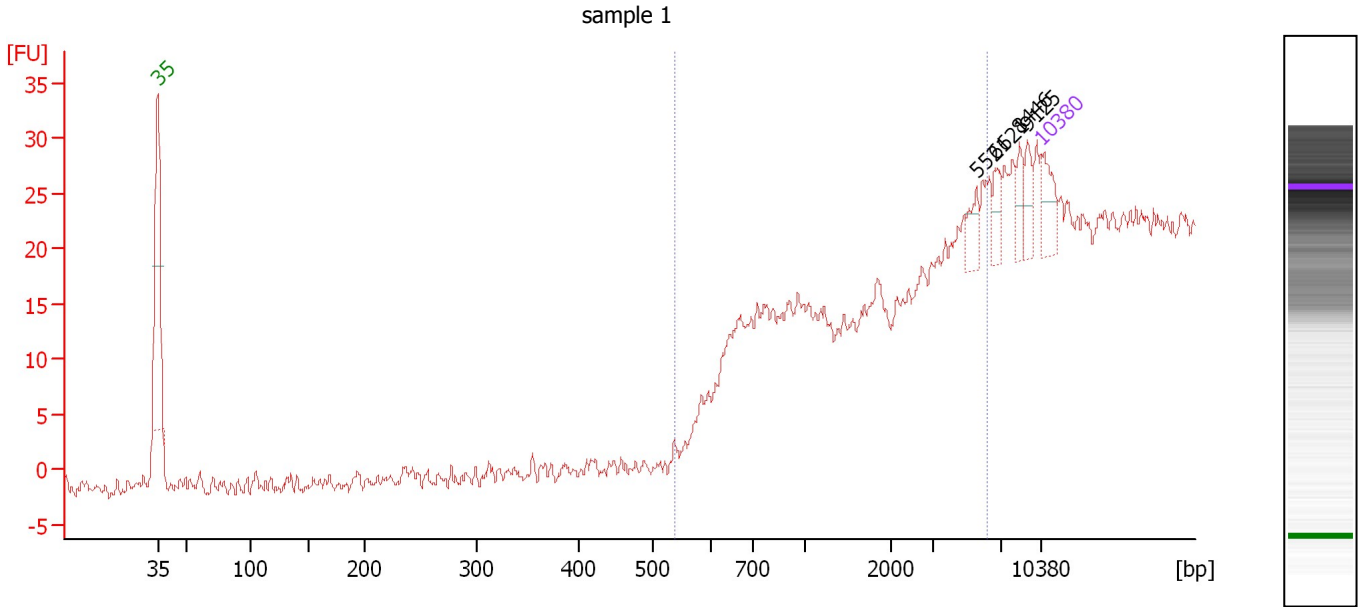
**Peak table for Ladder**

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	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\2013-04-22\2013-04-22\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 4                      Corr. Area 1: 27.5  
 Noise: 0.9

**Peak table for sample 1 : sample 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	5,521	49.80	13.7	
3	6,621	50.88	11.6	
4	8,446	46.09	8.3	
5	9,125	52.45	8.7	
6	10,380	75.00	10.9	Upper Marker

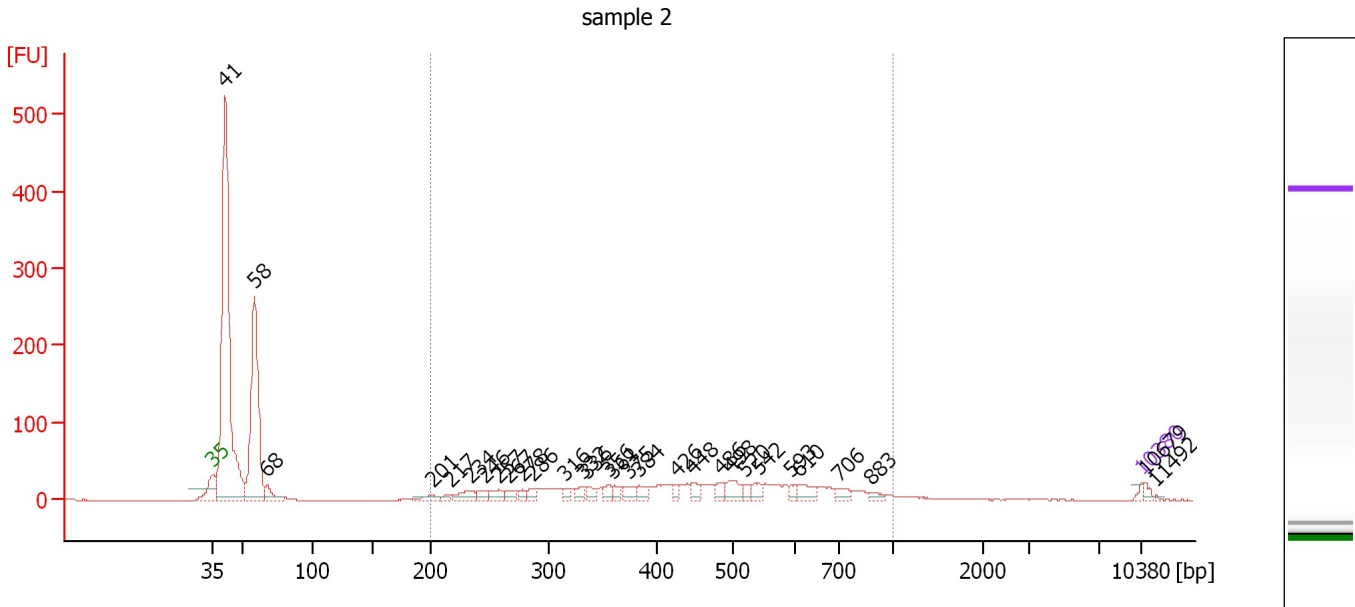
**Region table for sample 1 : sample 1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
536	6,160	4,173	139.2	255.24	27.5	27	37.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
 Modified: 4/22/2013 12:52:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 30                      Corr. Area 1: 739.1  
 Noise: 0.3

**Peak table for sample 2 : sample 2**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	16,526.59	607,257.3	
3	58	7,318.30	189,966.9	
4	68	615.65	13,790.5	
5	201	241.95	1,825.0	
6	217	122.44	855.9	
7	234	424.24	2,752.3	
8	246	230.96	1,423.7	
9	257	341.67	2,013.2	
10	267	225.98	1,281.8	
11	278	167.94	913.7	
12	286	237.48	1,257.3	
13	316	183.38	879.0	
14	332	244.21	1,114.9	
15	336	239.00	1,078.3	
16	356	240.17	1,022.0	
17	361	202.87	852.6	
18	375	319.59	1,291.8	
19	384	297.38	1,172.7	
20	426	172.77	614.7	
21	448	291.52	985.5	
22	486	267.43	834.0	
23	498	437.66	1,330.4	
24	520	178.44	519.6	
25	542	252.46	706.0	
26	593	148.95	380.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
 Modified: 4/22/2013 12:52:27 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	610	344.50	855.6	
28	706	218.56	468.9	
29	883	124.20	213.1	
30	 10,380	75.00	10.9	Upper Marker
31	10,679	0.00	0.0	
32	11,492	0.00	0.0	

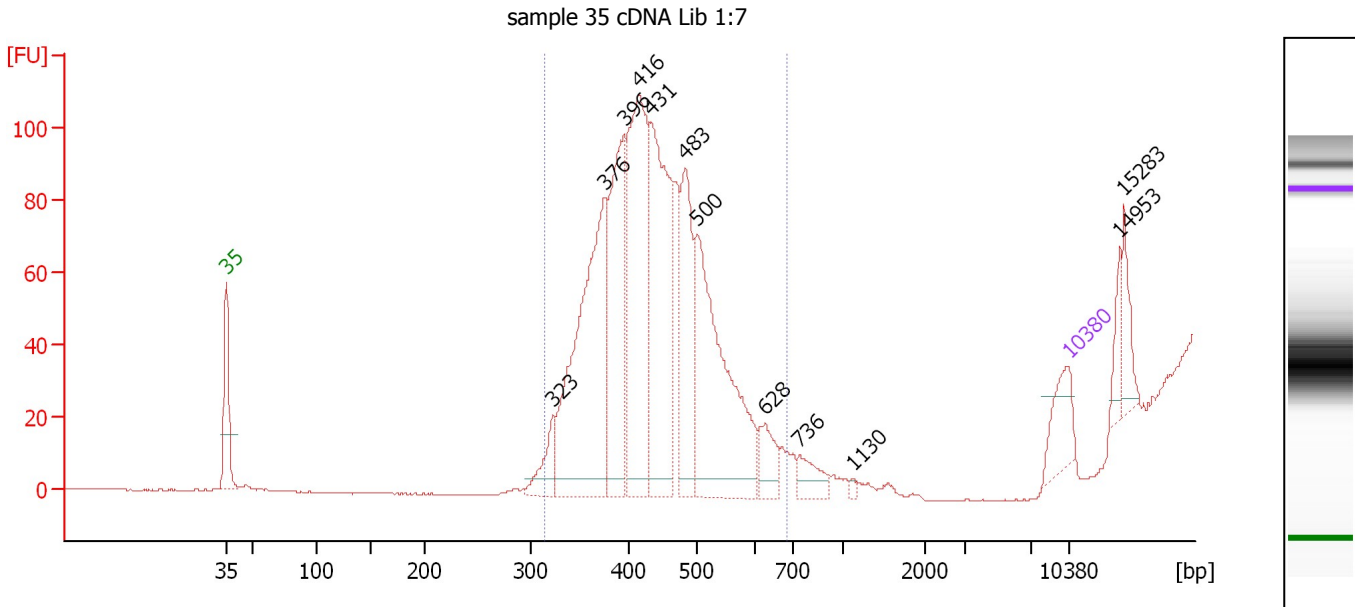
#### Region table for sample 2 : sample 2

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	460	35,414.5	8,934.20	739.1	34	35.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 35 cDNA Lib 1:7**

Number of peaks found: 12                      Corr. Area 1: 980.1  
 Noise: 0.2

**Peak table for sample 3 : sample 35 cDNA Lib 1:7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	323	83.47	391.7	
3	376	673.84	2,717.6	
4	396	380.27	1,455.6	
5	416	575.39	2,097.4	
6	431	529.30	1,860.5	
7	483	271.45	852.2	
8	500	578.07	1,750.4	
9	628	73.46	177.2	
10	736	57.06	117.4	
11	1,130	6.37	8.5	
12	10,380	75.00	10.9	Upper Marker
13	14,953	0.00	0.0	
14	15,283	0.00	0.0	

**Region table for sample 3 : sample 35 cDNA Lib 1:7**

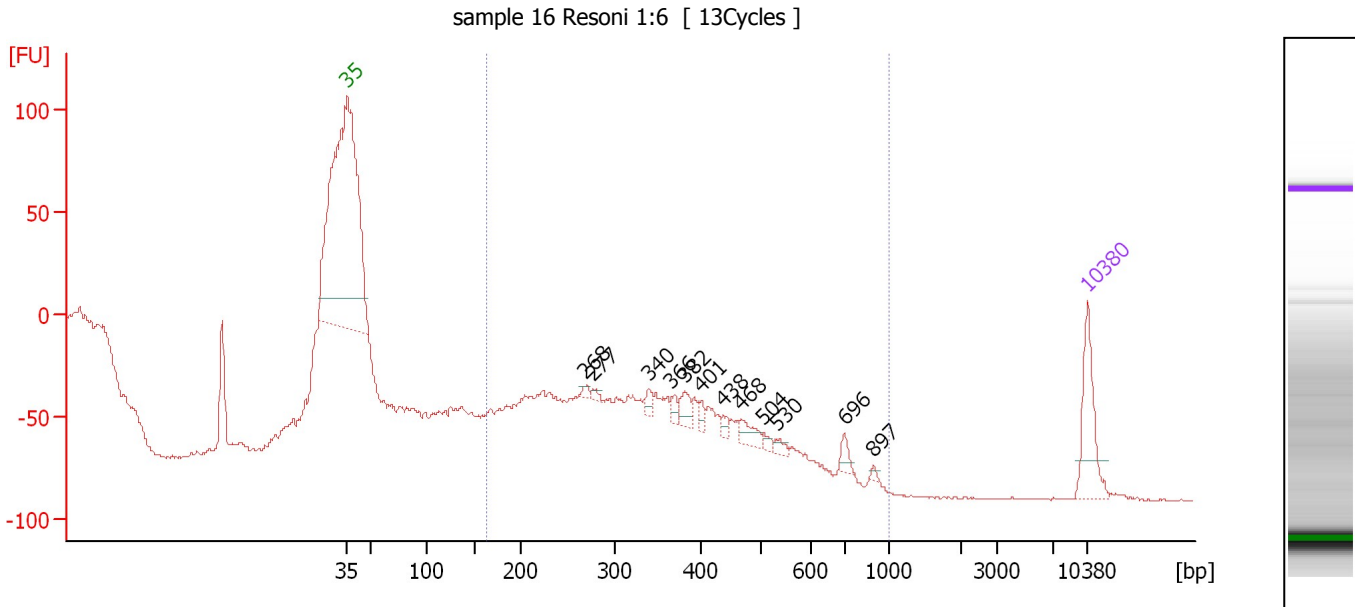
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
314	685	428	7,718.0	2,142.35	980.1	97	12.1	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
 Modified: 4/22/2013 12:52:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 16 Resoni 1:6**

Number of peaks found: 12                      Corr. Area 1: 86.3  
 Noise: 0.3

**Peak table for sample 4 : sample 16 Resoni 1:6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	268	7.81	44.2	
3	277	7.13	39.0	
4	340	14.95	66.7	
5	366	13.33	55.1	
6	382	27.20	108.0	
7	401	12.37	46.7	
8	438	10.23	35.4	
9	468	24.74	80.1	
10	504	8.40	25.2	
11	530	9.44	27.0	
12	696	16.64	36.2	
13	897	4.24	7.2	
14	10,380	75.00	10.9	Upper Marker

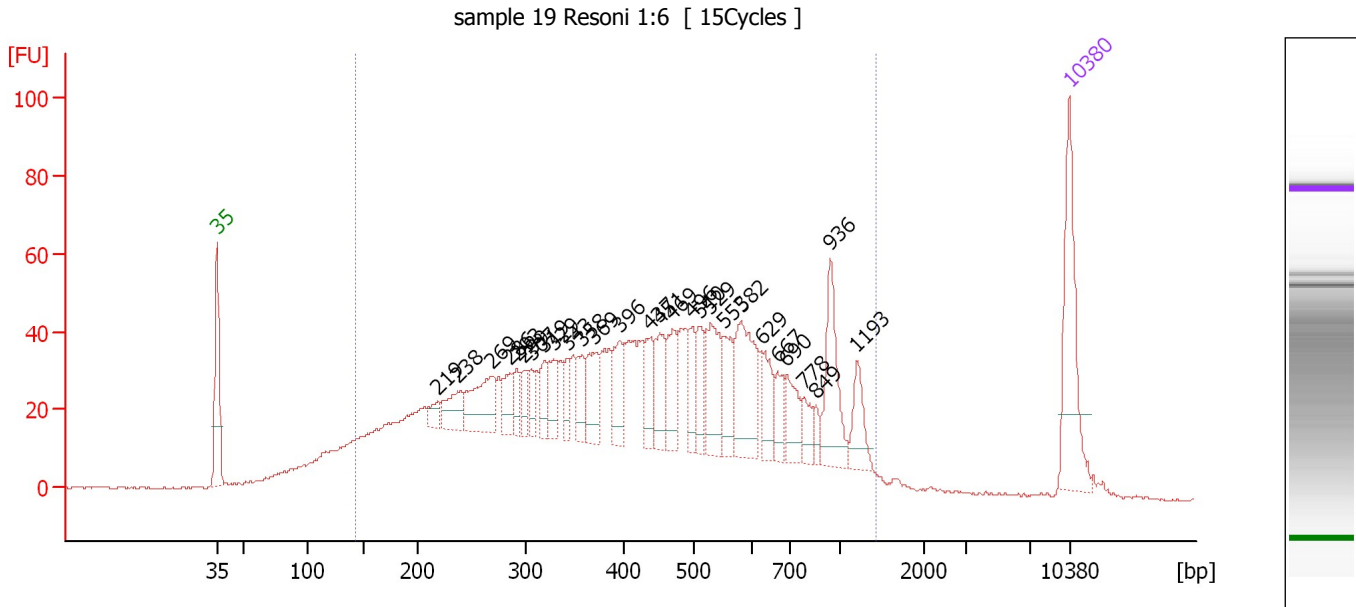
**Region table for sample 4 : sample 16 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
163	1,000	366	472.2	110.07	86.3	83	17.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
 Modified: 4/22/2013 12:52:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 19 Resoni 1:6**

Number of peaks found: 28                      Corr. Area 1: 1,806.9  
 Noise: 0.3

**Peak table for sample 5 : sample 19 Resoni 1:6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	219	12.79	88.5	
3	238	35.51	226.3	
4	269	65.80	370.7	
5	286	25.02	132.4	
6	293	18.42	95.4	
7	299	18.36	93.0	
8	307	18.40	90.9	
9	319	22.62	107.5	
10	329	29.84	137.6	
11	343	20.34	89.8	
12	358	27.15	115.0	
13	369	40.46	166.2	
14	396	37.98	145.4	
15	437	30.63	106.1	
16	451	40.39	135.6	
17	469	37.70	121.7	
18	496	25.38	77.5	
19	510	28.96	86.0	
20	529	57.91	165.9	
21	553	35.92	98.4	
22	582	79.95	208.1	
23	629	30.55	73.6	
24	667	22.25	50.6	
25	690	31.01	68.1	
26	778	17.40	33.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad


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 Modified: 4/22/2013 12:52:27 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : sample 19 Resoni 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	849	9.50	16.9	
28	936	59.96	97.1	
29	1,193	27.02	34.3	
30	10,380	75.00	10.9	Upper Marker

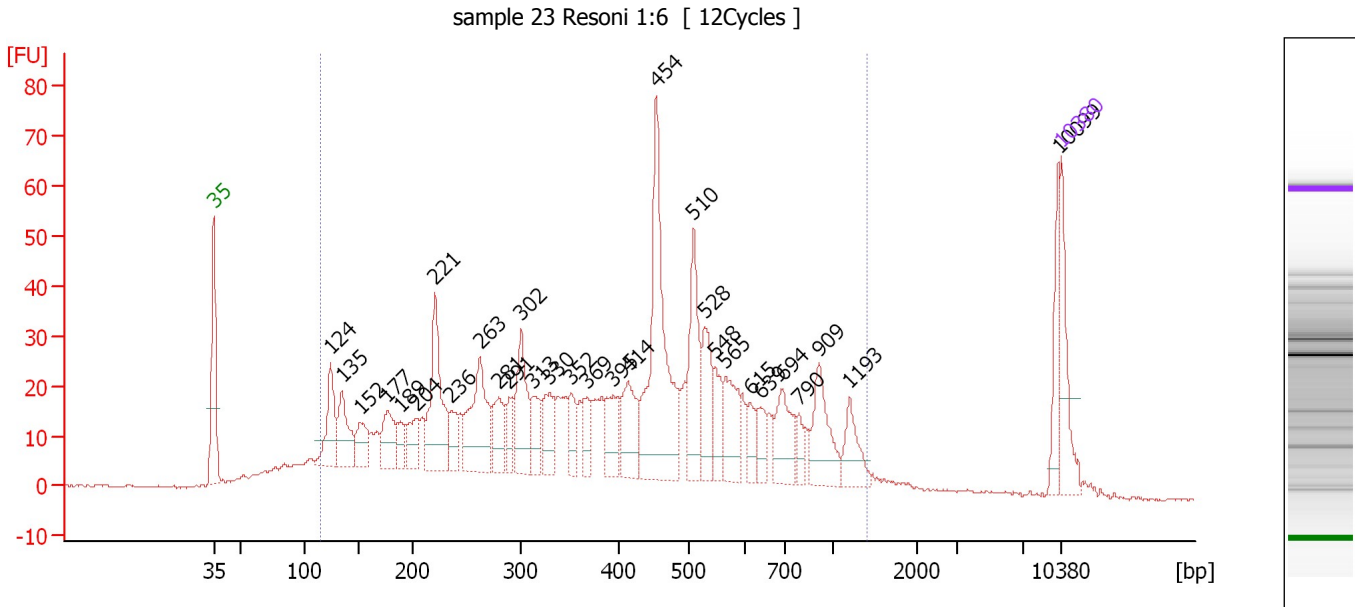
#### Region table for sample 5 : sample 19 Resoni 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
143	1,429	477	9,523.8	2,122.57	1,806.9	92	50.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
 Modified: 4/22/2013 12:52:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 23 Resoni 1:6**

Number of peaks found: 30                      Corr. Area 1: 1,236.5  
 Noise: 0.3

**Peak table for sample 6 : sample 23 Resoni 1:6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	124	110.60	1,346.8	
3	135	99.39	1,118.6	
4	152	64.07	640.0	
5	177	80.22	687.0	
6	189	30.93	248.2	
7	204	52.91	393.6	
8	221	189.02	1,295.8	
9	236	42.67	274.0	
10	263	171.59	989.4	
11	281	66.01	356.4	
12	291	40.43	210.8	
13	302	121.69	611.2	
14	313	54.22	262.4	
15	330	65.30	300.0	
16	352	45.23	194.7	
17	369	45.60	187.4	
18	395	59.06	226.5	
19	414	90.61	331.8	
20	454	324.75	1,083.0	
21	510	136.39	405.5	
22	528	85.93	246.4	
23	548	50.54	139.7	
24	565	81.97	219.8	
25	615	31.69	78.1	
26	639	35.75	84.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad


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 Modified: 4/22/2013 12:52:27 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : sample 23 Resoni 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	694	77.86	169.9	
28	790	21.25	40.8	
29	909	88.05	146.8	
30	1,193	49.57	62.9	
31	10,099	48.97	7.3	
32	10,380	75.00	10.9	Upper Marker

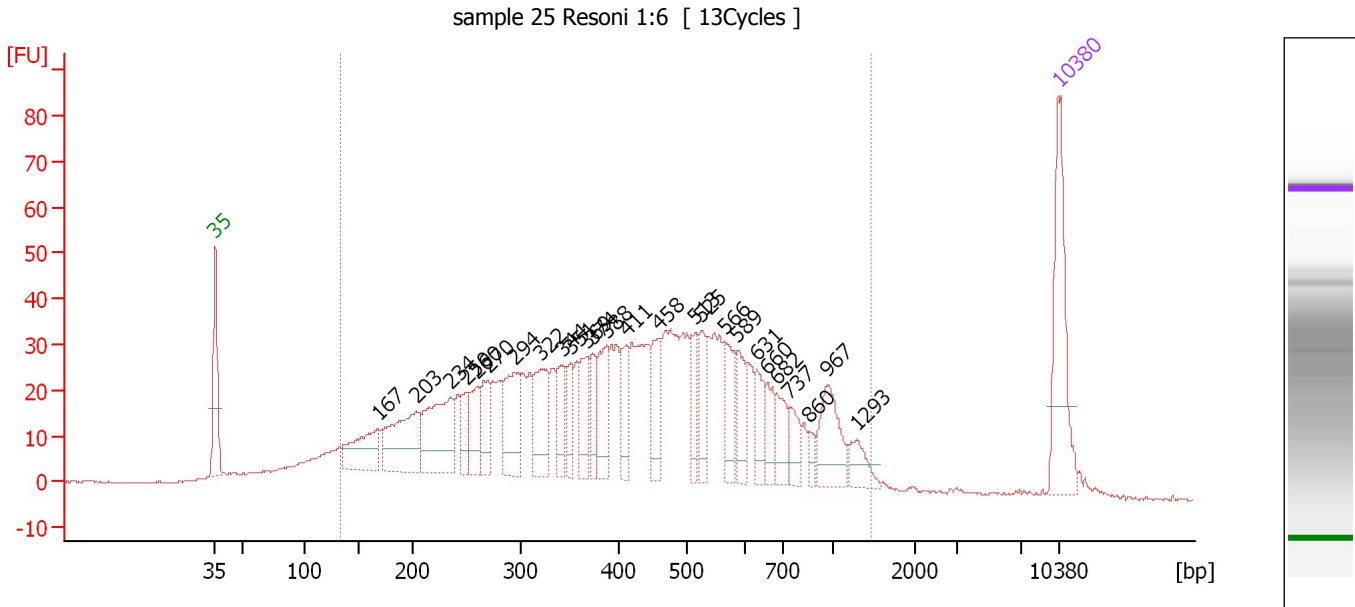
#### Region table for sample 6 : sample 23 Resoni 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
115	1,404	444	18,175.4	3,460.45	1,236.5	91	53.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 25 Resoni 1:6**

Number of peaks found: 26                      Corr. Area 1: 1,402.0  
 Noise: 0.2

**Peak table for sample 7 : sample 25 Resoni 1:6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	167	68.56	621.3	
3	203	96.45	720.0	
4	234	103.19	667.0	
5	250	26.45	160.0	
6	260	40.85	238.2	
7	270	38.88	218.3	
8	294	71.60	368.6	
9	322	64.47	303.3	
10	344	35.20	155.2	
11	351	28.92	124.7	
12	369	40.09	164.7	
13	374	27.82	112.7	
14	388	49.93	195.1	
15	411	32.41	119.5	
16	458	39.59	131.0	
17	513	28.54	84.2	
18	525	30.55	88.2	
19	566	35.61	95.3	
20	589	32.21	82.9	
21	631	26.88	64.5	
22	660	22.90	52.6	
23	682	26.92	59.8	
24	737	21.20	43.6	
25	860	8.82	15.5	
26	967	47.63	74.6	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

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**Electropherogram Summary Continued ...****... Peak table for sample 7 : sample 25 Resoni 1:6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,293	19.26	22.6	
28	▶ 10,380	75.00	10.9	Upper Marker

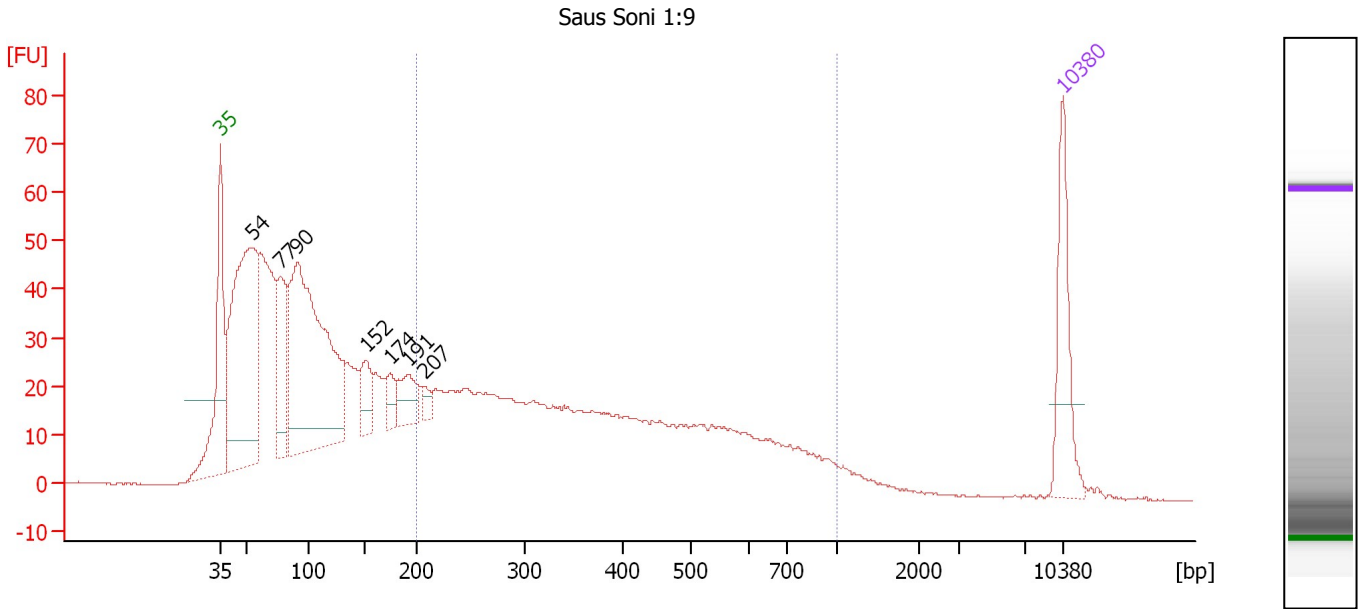
**Region table for sample 7 : sample 25 Resoni 1:6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
133	1,468	459	8,691.1	1,877.88	1,402.0	92	50.3	■

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Saus Soni 1:9**

Number of peaks found: 7                      Corr. Area 1: 741.6  
 Noise: 0.2

**Peak table for sample 8 : Saus Soni 1:9**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	54	498.43	13,942.5	
3	77	130.93	2,585.7	
4	90	551.75	9,253.3	
5	152	54.72	545.3	
6	174	29.20	253.6	
7	191	50.40	400.1	
8	207	13.85	101.5	
9	10,380	75.00	10.9	Upper Marker

**Region table for sample 8 : Saus Soni 1:9**

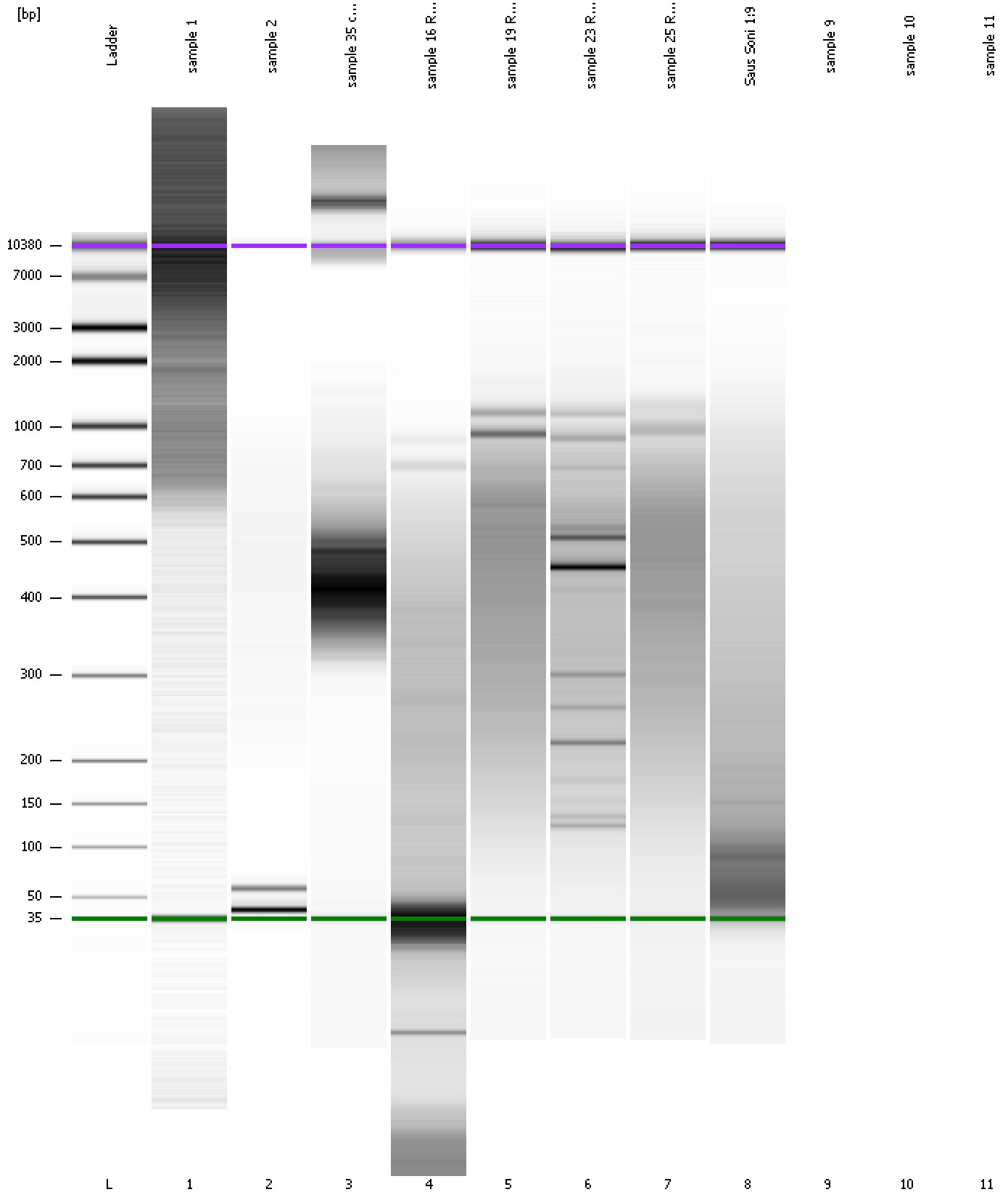
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,000	407	4,979.0	1,078.89	741.6	39	42.1	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
Modified: 4/22/2013 12:52:27 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
Modified: 4/22/2013 12:52:27 PM

**Invalid Samples**

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.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22\_003.xad

Created: 4/22/2013 12:19:39 PM  
 Modified: 4/22/2013 12:52:27 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		4/22/2013 12:52:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-22\2013-04-22_003.xad)		Instrument	Run		4/22/2013 12:19:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/22/2013 12:19:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/22/2013 12:19:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/22/2013 12:19:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/22/2013 12:19:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/22/2013 12:19:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/22/2013 12:19:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1