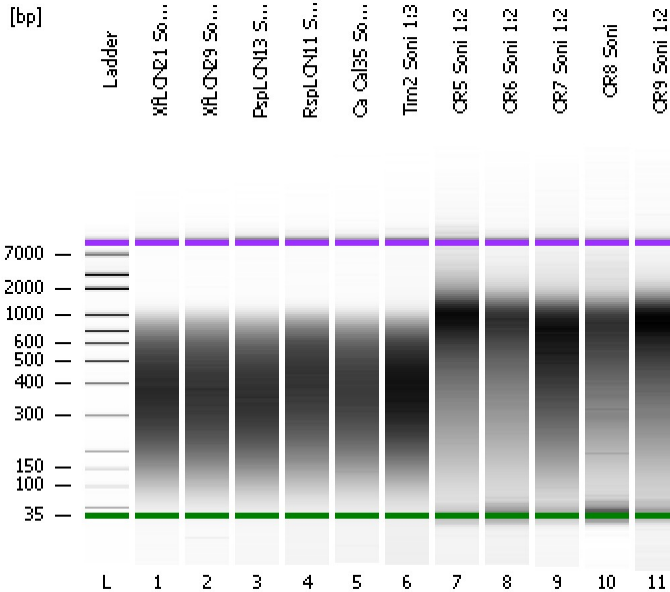


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
Modified: 10/2/2013 11:58:46 AM

**Electrophoresis File Run Summary**



Instrument Information:

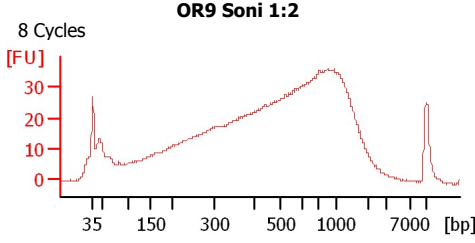
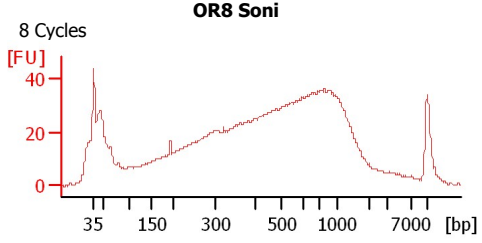
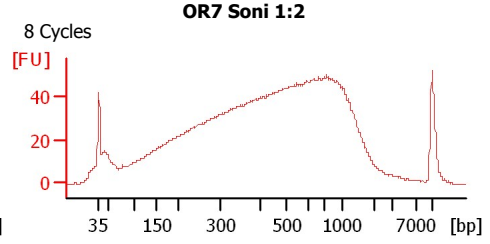
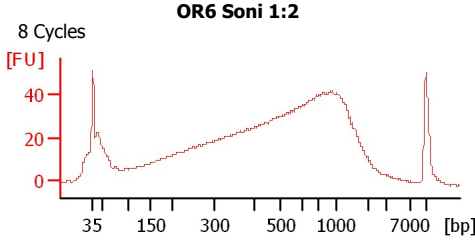
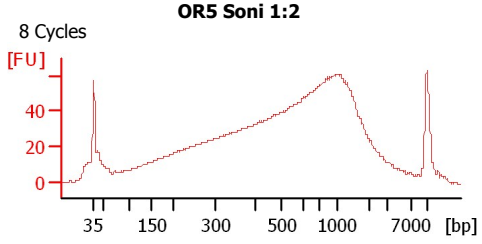
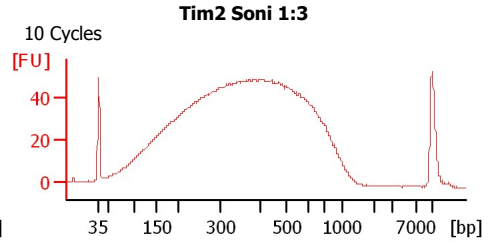
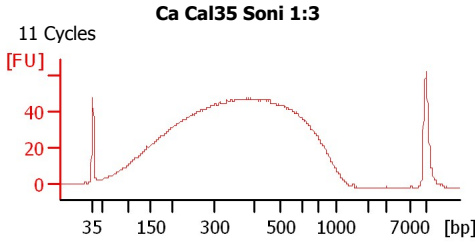
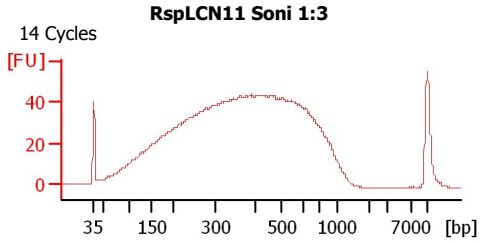
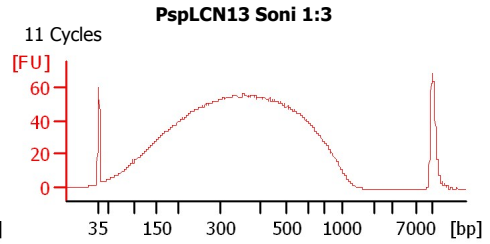
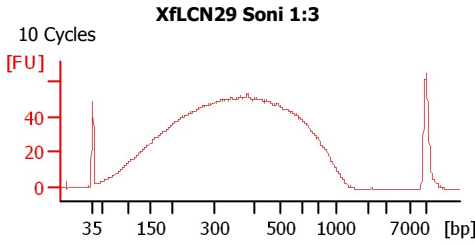
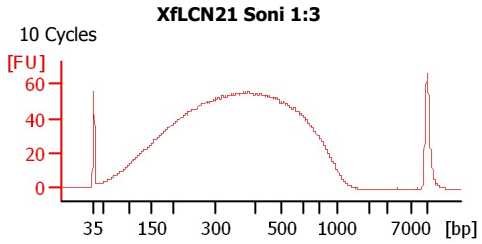
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
Modified: 10/2/2013 11:58:46 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
XfLCN21 Soni 1:3	10 Cycles	<input type="checkbox"/>	✓			
XfLCN29 Soni 1:3	10 Cycles	<input type="checkbox"/>	✓			
PspLCN13 Soni 1:3	11 Cycles	<input type="checkbox"/>	✓			
RspLCN11 Soni 1:3	14 Cycles	<input type="checkbox"/>	✓			
Ca Cal35 Soni 1:3	11 Cycles	<input type="checkbox"/>	✓			
Tim2 Soni 1:3	10 Cycles	<input type="checkbox"/>	✓			
OR5 Soni 1:2	8 Cycles	<input type="checkbox"/>	✓			
OR6 Soni 1:2	8 Cycles	<input type="checkbox"/>	✓			
OR7 Soni 1:2	8 Cycles	<input type="checkbox"/>	✓			
OR8 Soni	8 Cycles	<input type="checkbox"/>	✓			
OR9 Soni 1:2	8 Cycles	<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\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 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

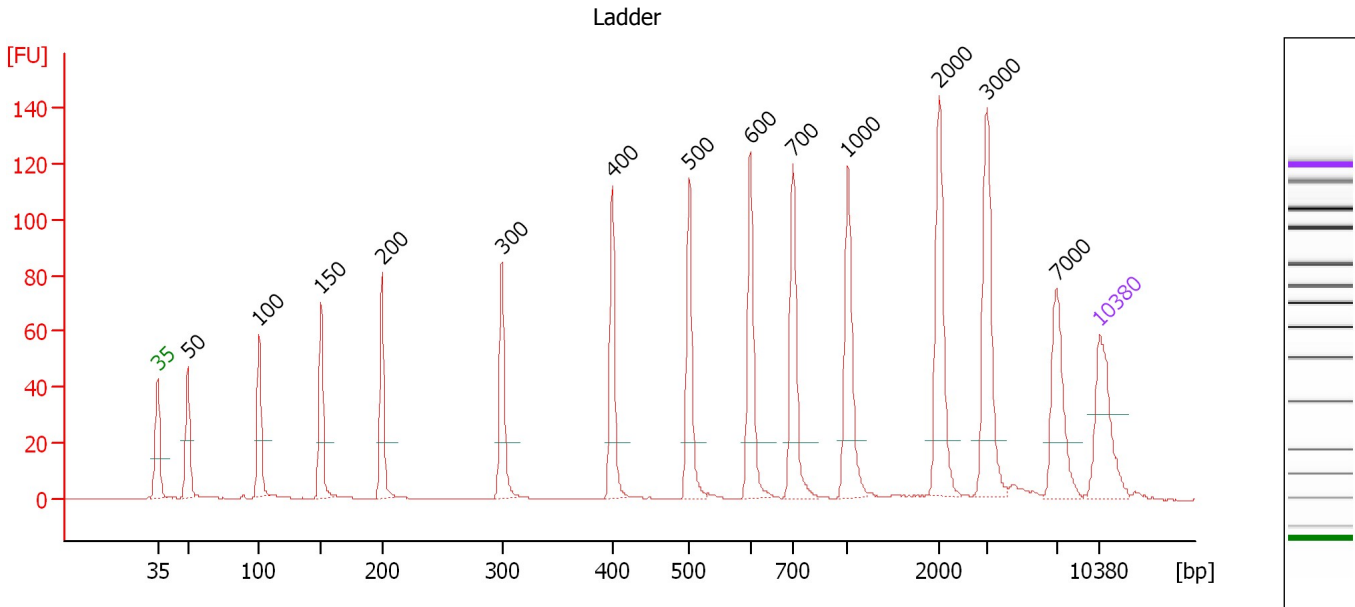
**Ladder**

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\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

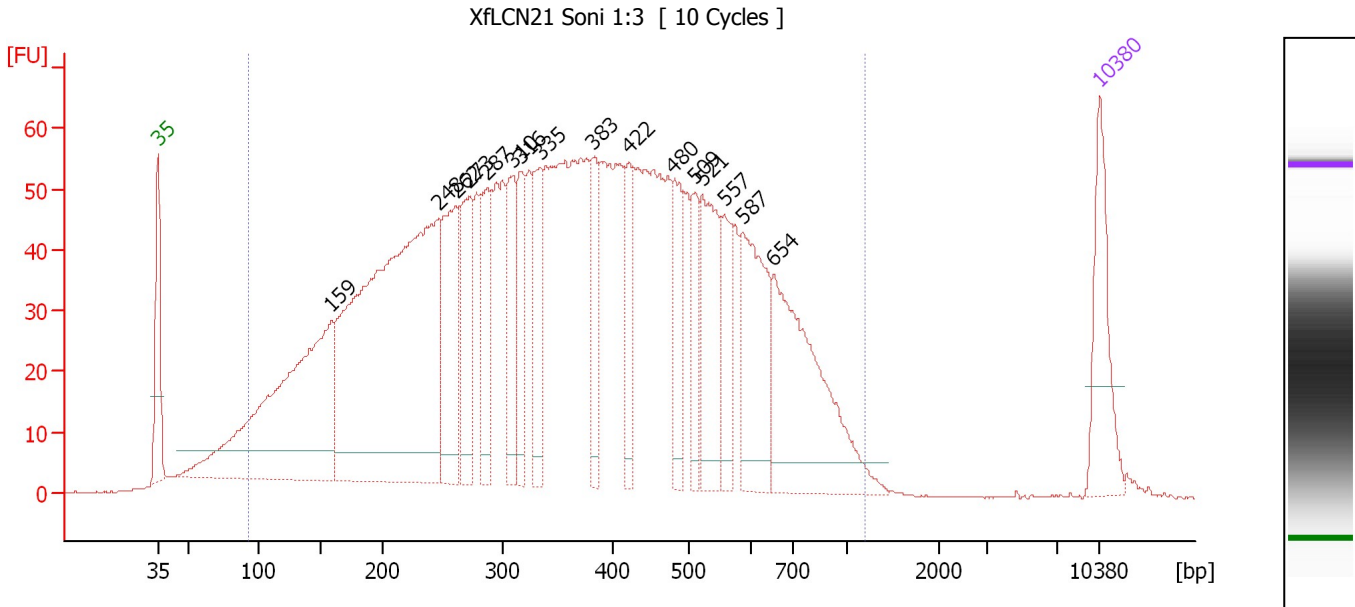
**Peak table for Ladder**

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\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : XfLCN21 Soni 1:3**

Number of peaks found: 16      Corr. Area 1: 2,575.6  
 Noise: 0.1

**Peak table for sample 1 : XfLCN21 Soni 1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	159	498.80	4,765.6	
3	248	787.84	4,812.7	
4	262	153.39	888.5	
5	273	115.62	641.6	
6	287	92.60	488.6	
7	310	91.39	446.9	
8	316	79.95	383.2	
9	335	83.19	376.2	
10	383	67.07	265.3	
11	422	62.40	224.0	
12	480	77.87	245.9	
13	509	52.84	157.2	
14	521	123.30	358.8	
15	557	59.37	161.6	
16	587	143.64	370.6	
17	654	232.51	538.5	
18	10,380	75.00	10.9	Upper Marker

**Region table for sample 1 : XfLCN21 Soni 1:3**

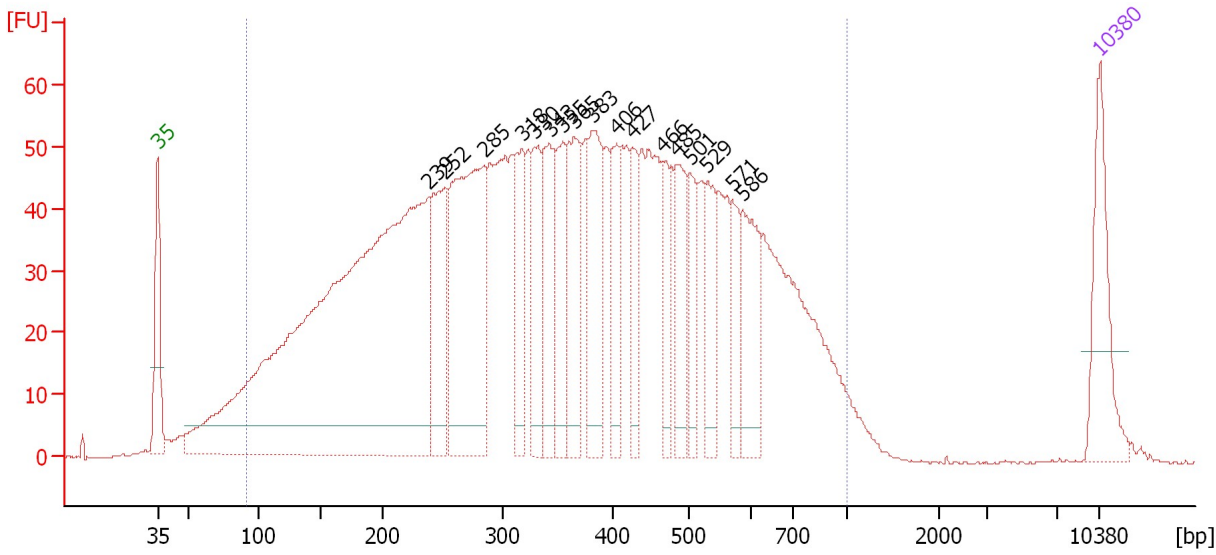
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
93	1,191	387	24,019.3	4,271.12	2,575.6	96	46.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**

XfLCN29 Soni 1:3 [ 10 Cycles ]



**Overall Results for sample 2 : XfLCN29 Soni 1:3**

Number of peaks found: 17                      Corr. Area 1: 2,413.6  
 Noise: 0.2

**Peak table for sample 2 : XfLCN29 Soni 1:3**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	239	1,160.18	7,363.4	
3	252	137.87	827.7	
4	285	324.59	1,726.0	
5	318	97.51	464.5	
6	330	90.65	416.8	
7	343	103.67	457.5	
8	355	86.17	367.3	
9	365	115.68	479.9	
10	383	122.35	483.9	
11	406	72.76	271.4	
12	427	57.72	205.0	
13	466	53.52	174.1	
14	485	79.96	249.9	
15	501	49.59	149.9	
16	529	63.80	182.6	
17	571	46.64	123.8	
18	586	88.42	228.6	
19	10,380	75.00	10.9	Upper Marker

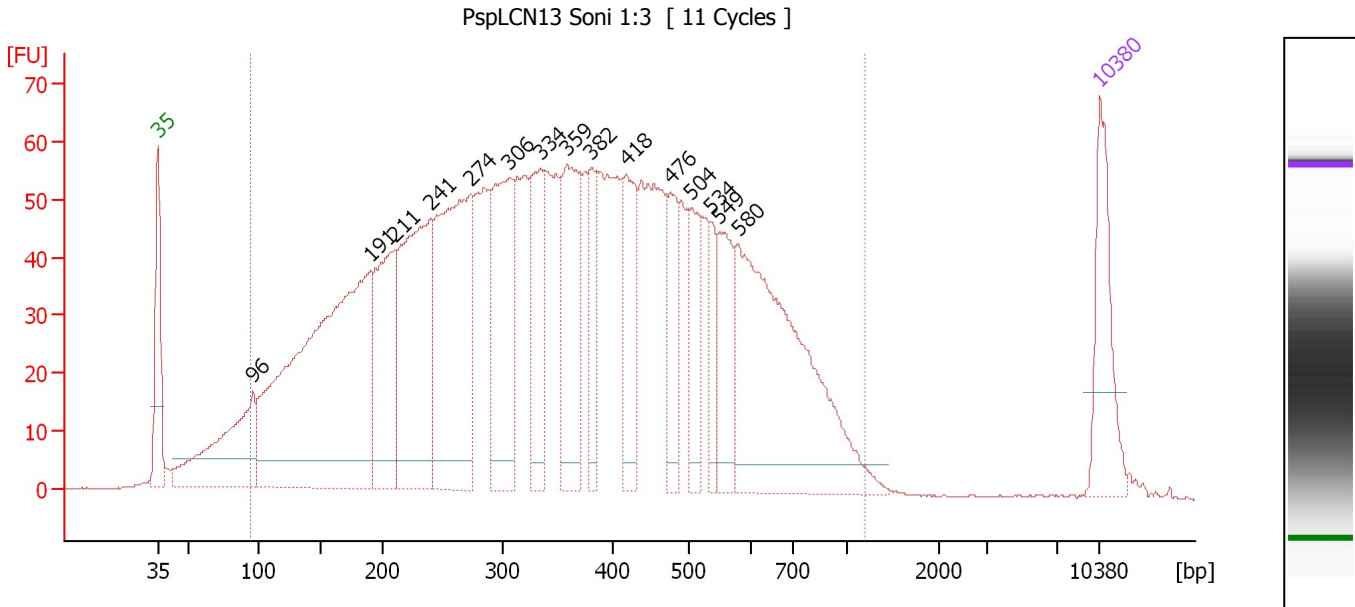
**Region table for sample 2 : XfLCN29 Soni 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
91	1,000	381	22,794.1	3,984.07	2,413.6	96	45.8	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : PspLCN13 Soni 1:3**

Number of peaks found: 15                      Corr. Area 1: 2,620.1  
 Noise: 0.1

**Peak table for sample 3 : PspLCN13 Soni 1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	96	202.25	3,201.2	
3	191	665.95	5,282.9	
4	211	188.75	1,356.7	
5	241	302.71	1,900.3	
6	274	330.89	1,829.3	
7	306	199.99	989.4	
8	334	112.82	511.1	
9	359	158.26	667.6	
10	382	72.82	289.2	
11	418	107.00	387.8	
12	476	72.90	232.2	
13	504	71.14	213.9	
14	534	44.19	125.5	
15	549	82.87	228.5	
16	580	358.80	937.2	
17	10,380	75.00	10.9	Upper Marker

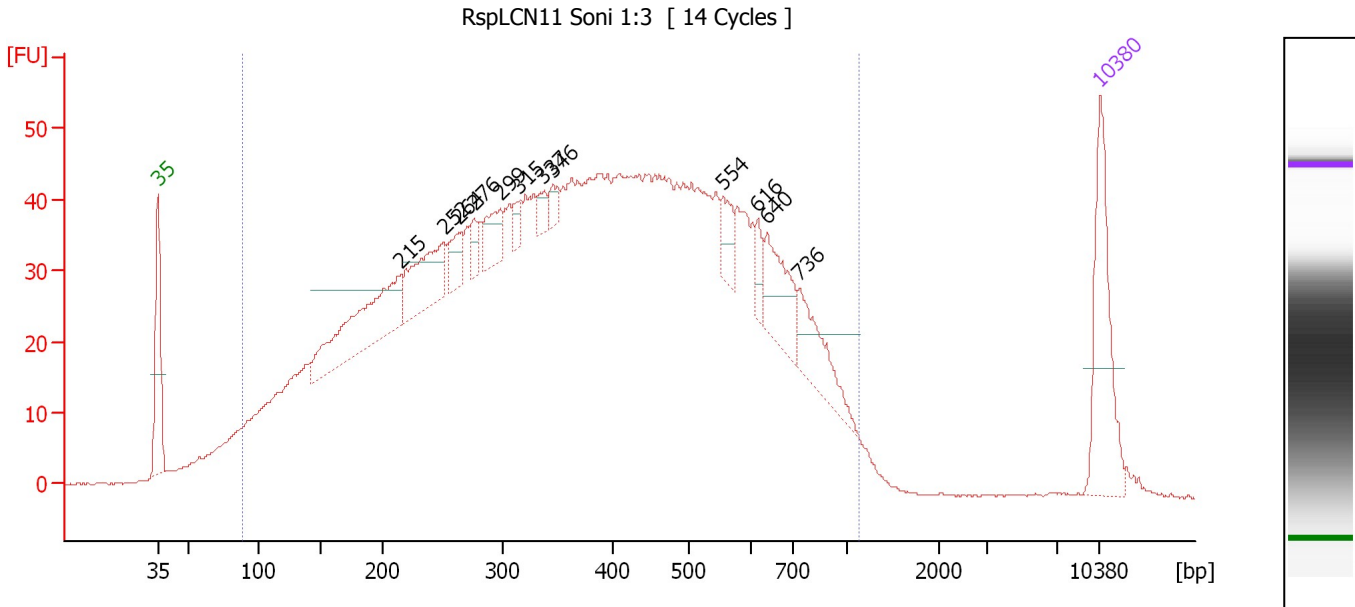
**Region table for sample 3 : PspLCN13 Soni 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
94	1,187	380	22,472.0	3,925.49	2,620.1	95	47.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : RspLCN11 Soni 1:3**

Number of peaks found: 12                      Corr. Area 1: 2,046.5  
 Noise: 0.1

**Peak table for sample 4 : RspLCN11 Soni 1:3**

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	215	126.12	888.2	
3	252	73.10	439.5	
4	264	24.09	138.3	
5	276	14.63	80.2	
6	299	30.13	152.9	
7	315	11.28	54.3	
8	337	10.85	48.8	
9	346	10.80	47.3	
10	554	21.99	60.1	
11	616	14.55	35.8	
12	640	52.23	123.6	
13	736	49.44	101.8	
14	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : RspLCN11 Soni 1:3**

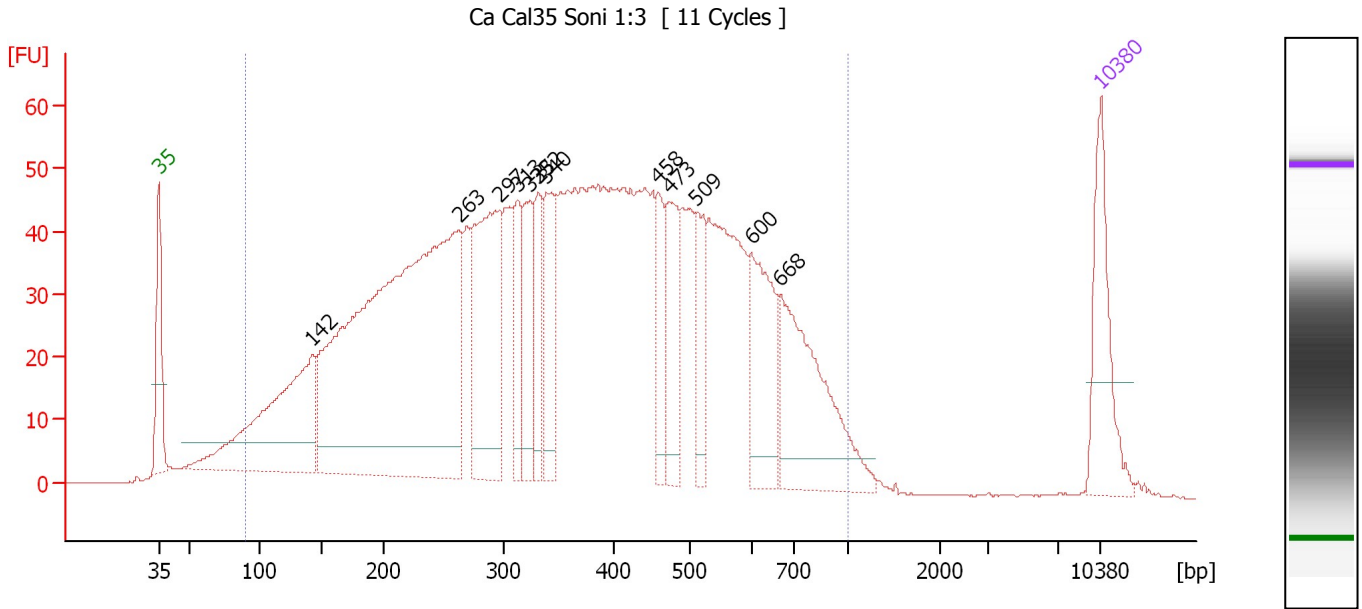
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
88	1,120	402	21,039.2	3,813.02	2,046.5	97	46.6	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Ca Cal35 Soni 1:3**

Number of peaks found: 12                      Corr. Area 1: 2,190.6  
 Noise: 0.1

**Peak table for sample 5 : Ca Cal35 Soni 1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	142	297.50	3,171.9	
3	263	850.43	4,894.1	
4	297	225.61	1,150.0	
5	313	70.10	339.1	
6	325	78.16	364.8	
7	332	68.94	314.8	
8	340	92.58	413.0	
9	458	60.99	201.6	
10	473	82.81	265.3	
11	509	62.32	185.5	
12	600	107.94	272.8	
13	668	180.27	409.0	
14	10,380	75.00	10.9	Upper Marker

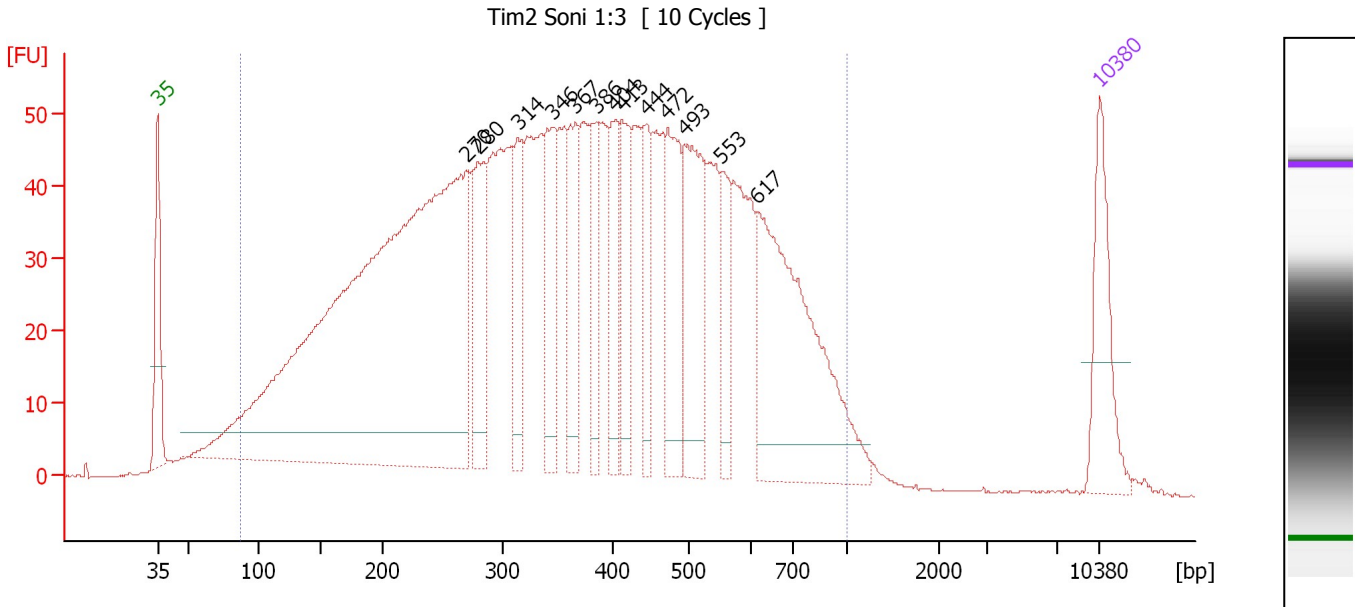
**Region table for sample 5 : Ca Cal35 Soni 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
90	1,000	386	19,883.9	3,552.64	2,190.6	96	44.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Tim2 Soni 1:3**

Number of peaks found: 13                      Corr. Area 1: 2,272.4  
 Noise: 0.1

**Peak table for sample 6 : Tim2 Soni 1:3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	270	1,246.40	6,999.8	
3	280	117.63	637.0	
4	314	75.95	366.1	
5	346	101.62	445.0	
6	367	98.27	406.1	
7	386	73.96	290.2	
8	404	76.77	288.2	
9	413	81.26	298.0	
10	444	68.82	234.7	
11	472	126.22	405.3	
12	493	150.81	463.1	
13	553	57.12	156.5	
14	617	301.88	741.1	
15	10,380	75.00	10.9	Upper Marker

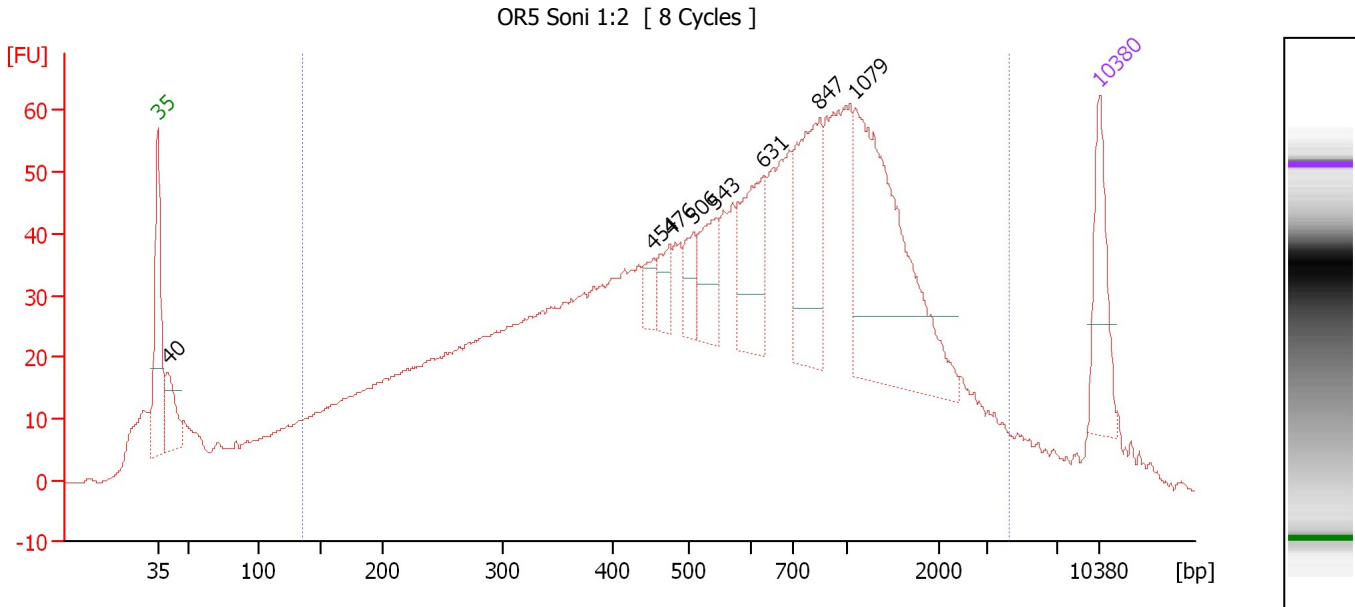
**Region table for sample 6 : Tim2 Soni 1:3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
86	1,000	388	23,166.8	4,143.46	2,272.4	97	45.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : OR5 Soni 1:2**

Height Threshold [FU] : 10

**Overall Results for sample 7 : OR5 Soni 1:2**

Number of peaks found: 8                      Corr. Area 1: 2,073.6  
 Noise: 0.1

**Peak table for sample 7 : OR5 Soni 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	74.46	2,814.9	
3	454	26.72	89.2	
4	476	34.77	110.8	
5	506	40.52	121.4	
6	543	68.42	190.9	
7	631	119.72	287.4	
8	847	161.90	289.5	
9	1,079	318.69	447.3	
10	10,380	75.00	10.9	Upper Marker

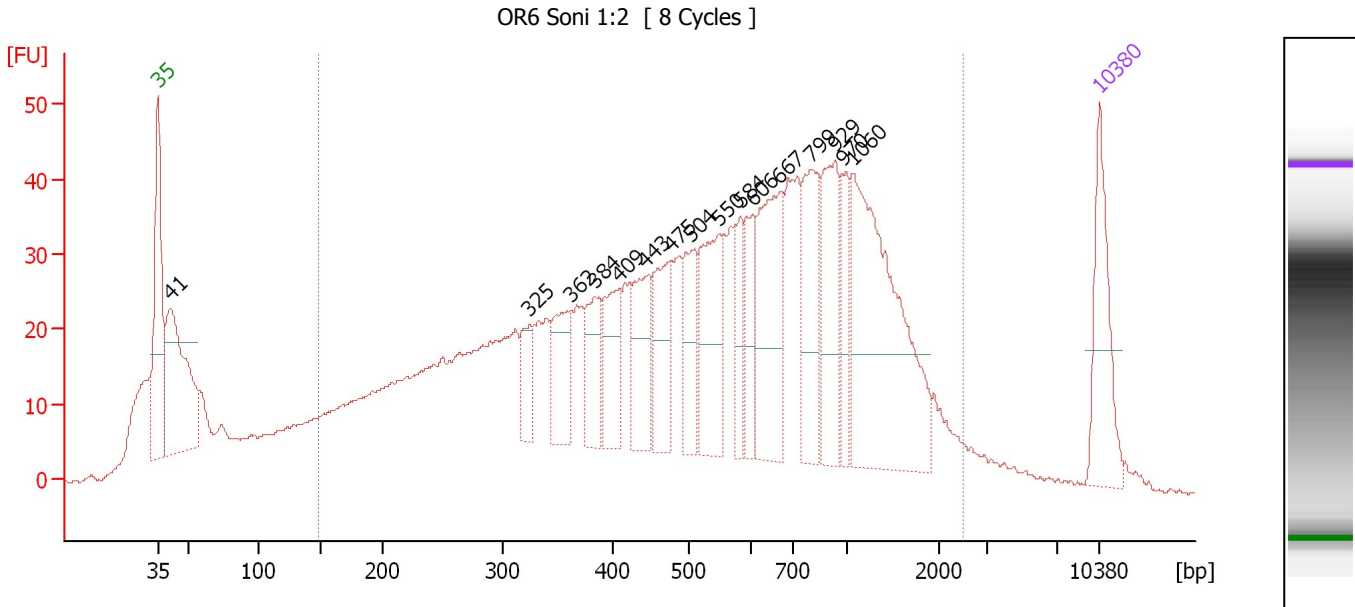
**Region table for sample 7 : OR5 Soni 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
135	4,312	776	15,387.2	4,086.76	2,073.6	88	79.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : OR6 Soni 1:2**

Height Threshold [FU] : 15

**Overall Results for sample 8 : OR6 Soni 1:2**

Number of peaks found: 16      Corr. Area 1: 1,465.4  
 Noise: 0.2

**Peak table for sample 8 : OR6 Soni 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	231.13	8,442.0	
3	325	43.87	204.5	
4	362	72.87	305.3	
5	384	59.52	234.8	
6	409	73.74	273.2	
7	443	82.12	280.6	
8	475	83.70	267.0	
9	504	63.66	191.3	
10	550	119.94	330.6	
11	584	43.20	112.0	
12	606	53.09	132.7	
13	667	146.77	333.3	
14	799	102.15	193.7	
15	929	100.66	164.1	
16	970	48.36	75.5	
17	1,060	262.02	374.5	
18	10,380	75.00	10.9	Upper Marker

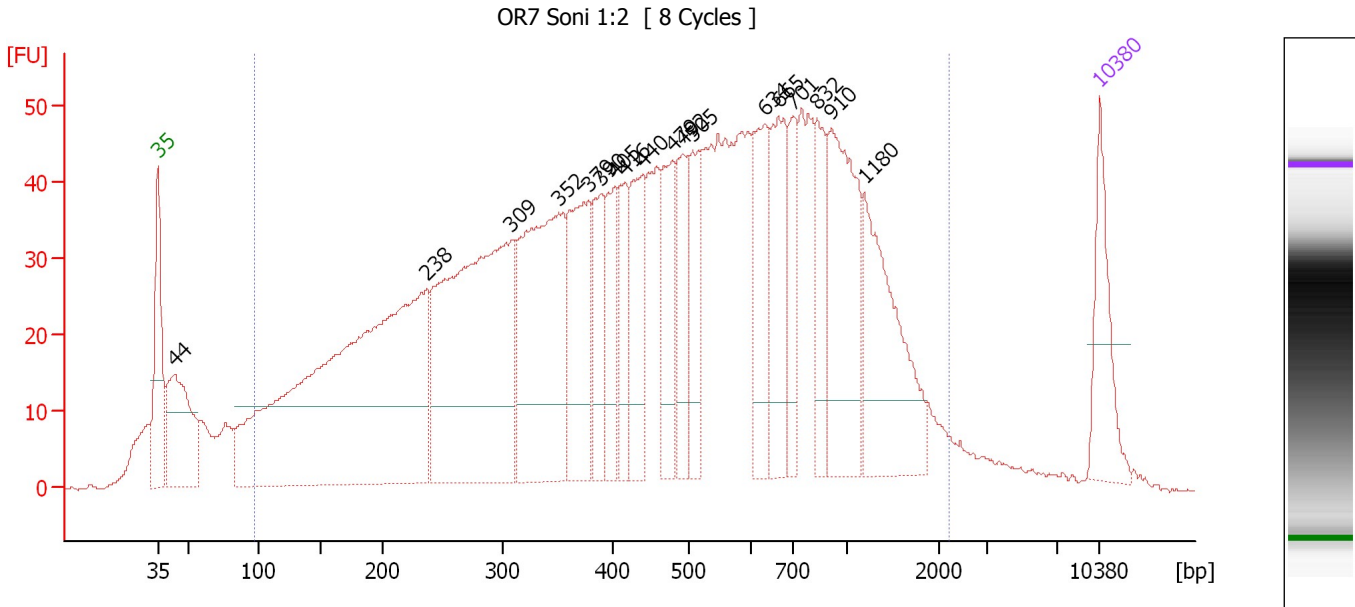
**Region table for sample 8 : OR6 Soni 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
147	2,487	659	11,154.6	2,912.40	1,465.4	82	65.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : OR7 Soni 1:2**

Height Threshold [FU] : 10

**Overall Results for sample 9 : OR7 Soni 1:2**

Number of peaks found: 18                      Corr. Area 1: 2,106.9  
 Noise: 0.2

**Peak table for sample 9 : OR7 Soni 1:2**


Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	200.36	6,969.8	
3	238	907.84	5,777.1	
4	309	574.03	2,818.0	
5	352	360.03	1,548.9	
6	379	183.83	735.0	
7	390	90.09	349.9	
8	405	84.71	317.3	
9	416	70.69	257.4	
10	440	116.13	400.0	
11	479	107.81	341.2	
12	492	88.42	272.3	
13	505	93.41	280.0	
14	634	121.61	290.4	
15	665	133.74	304.7	
16	701	70.23	151.8	
17	832	72.63	132.3	
18	910	199.20	331.6	
19	1,180	181.80	233.5	
20	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**

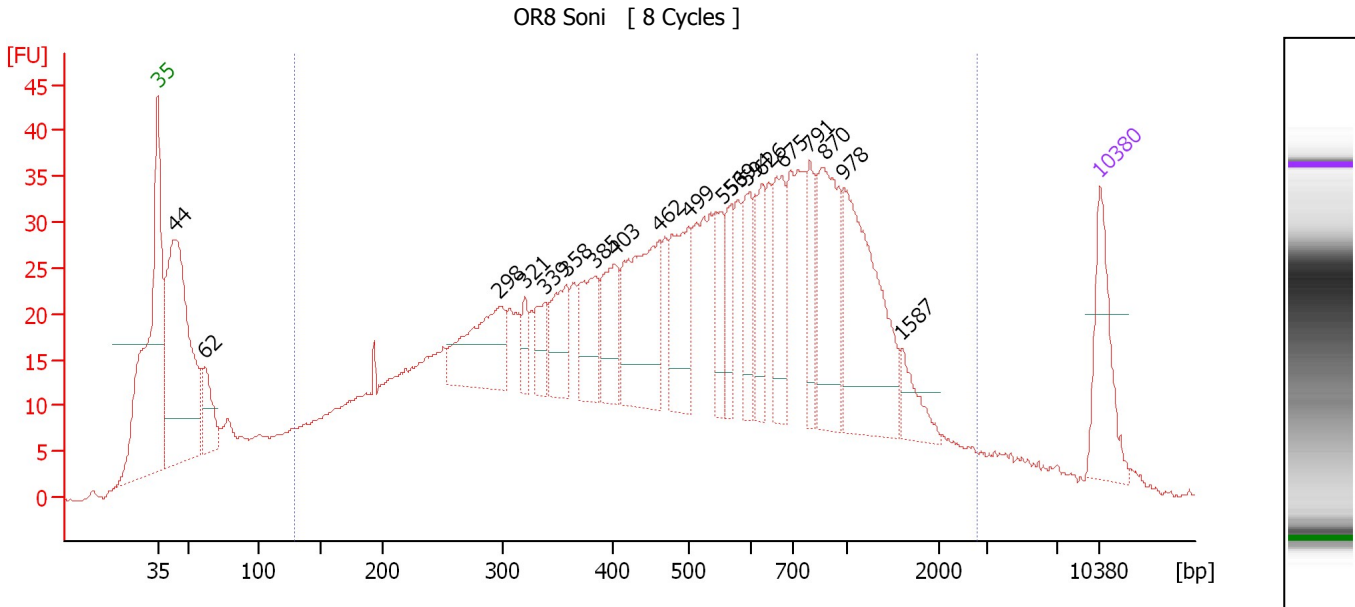
... Region table for sample 9 : OR7 Soni 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Corr. Area	% of Total	Size distribution in CV [%]	Color
97	2,200	558	21,374.9	4,515.44	2,106.9	91	65.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : OR8 Soni**

Number of peaks found: 19                      Corr. Area 1: 1,324.2  
 Noise: 0.1

**Peak table for sample 10 : OR8 Soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	440.39	15,193.8	
3	62	66.16	1,628.0	
4	298	131.66	670.1	
5	321	26.66	126.0	
6	339	38.61	172.7	
7	358	67.99	287.8	
8	385	76.51	301.3	
9	403	73.69	276.9	
10	462	173.22	568.6	
11	499	108.41	329.3	
12	553	48.55	132.9	
13	569	45.34	120.7	
14	594	53.86	137.5	
15	626	59.02	142.8	
16	675	78.47	176.2	
17	791	51.13	97.9	
18	870	124.95	217.7	
19	978	194.95	302.0	
20	1,587	32.06	30.6	
21	10,380	75.00	10.9	Upper Marker

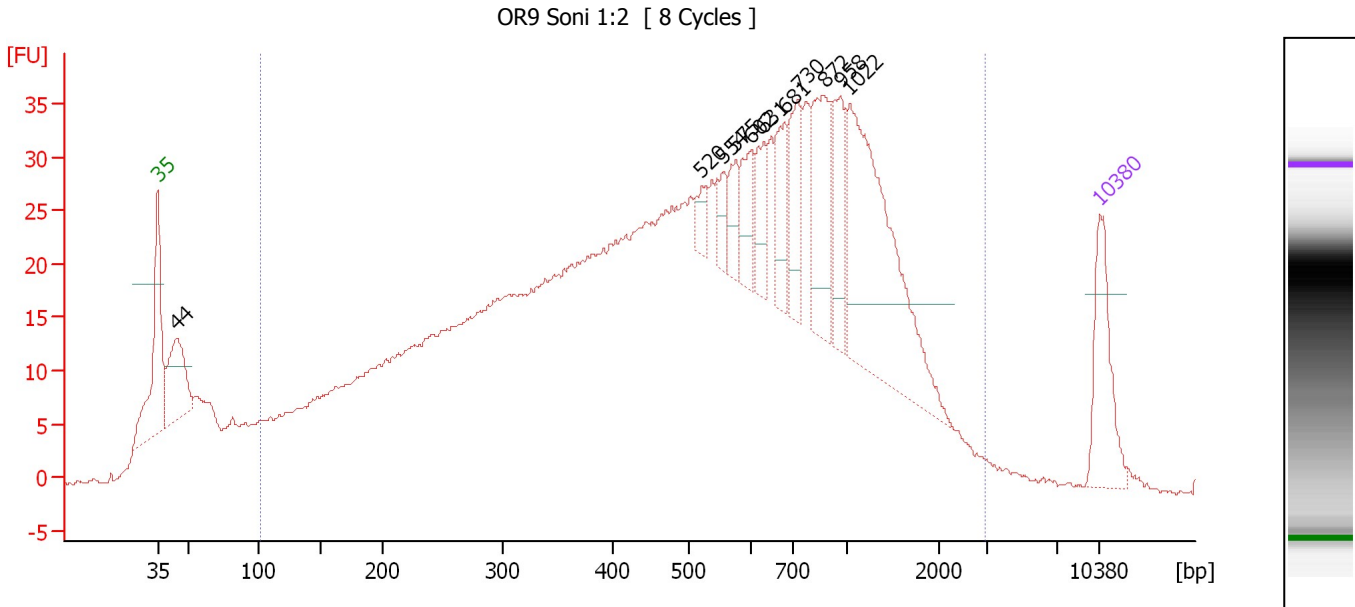
**Region table for sample 10 : OR8 Soni**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
129	2,781	616	15,855.2	3,826.28	1,324.2	83	68.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
 Modified: 10/2/2013 11:58:46 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : OR9 Soni 1:2**

Number of peaks found: 11                      Corr. Area 1: 1,287.5  
 Noise: 0.2

**Peak table for sample 11 : OR9 Soni 1:2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	121.62	4,163.0	
3	520	21.21	61.8	
4	554	26.58	72.7	
5	575	32.50	85.6	
6	602	45.69	115.1	
7	631	42.80	102.8	
8	681	52.26	116.3	
9	730	69.91	145.1	
10	872	101.82	176.9	
11	958	72.50	114.6	
12	1,022	284.22	421.5	
13	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : OR9 Soni 1:2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
102	2,969	652	19,515.6	4,571.55	1,287.5	91	69.9	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-02\2013-10-02\_002.xad

Created: 10/2/2013 11:14:45 AM  
Modified: 10/2/2013 11:58:46 AM

**Gel Image**

