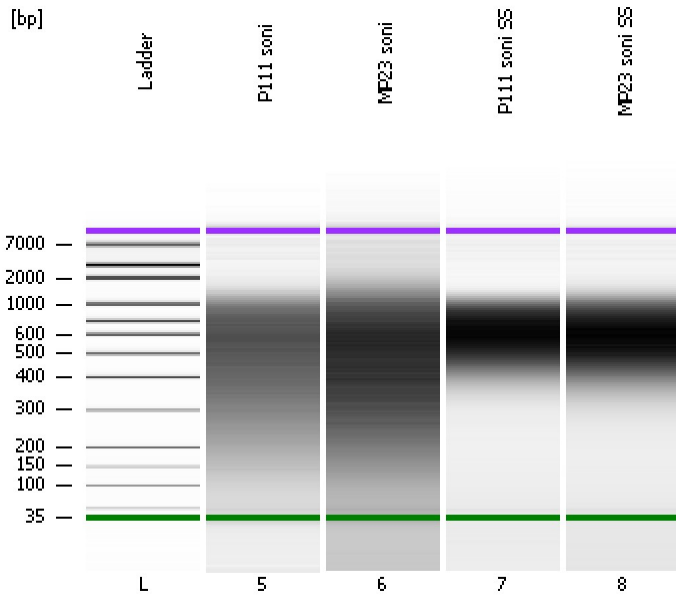


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
Modified: 12/2/2015 2:36:52 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

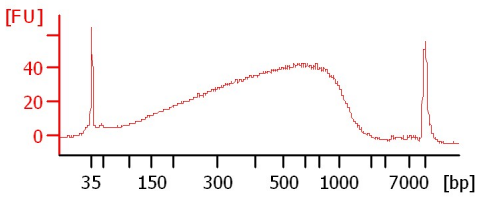
Assay Information:

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

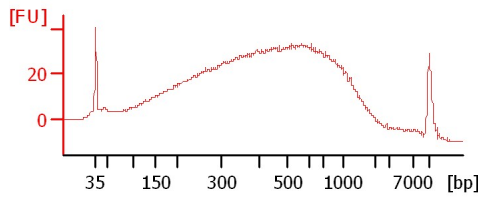
Chip Information:

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

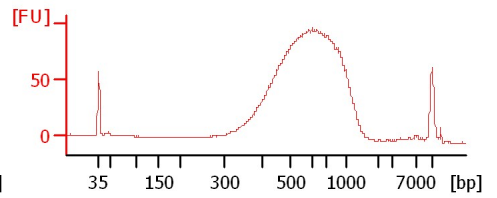
**P111 soni**



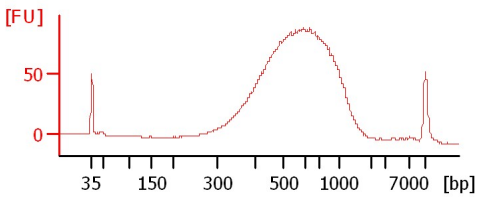
**MP23 soni**



**P111 soni SS**



**MP23 soni SS**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
 Modified: 12/2/2015 2:36:52 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P111 soni		<input type="checkbox"/>	✓			
MP23 soni		<input type="checkbox"/>	✓			
P111 soni SS		<input type="checkbox"/>	✓			
MP23 soni SS		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
Modified: 12/2/2015 2:36:52 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

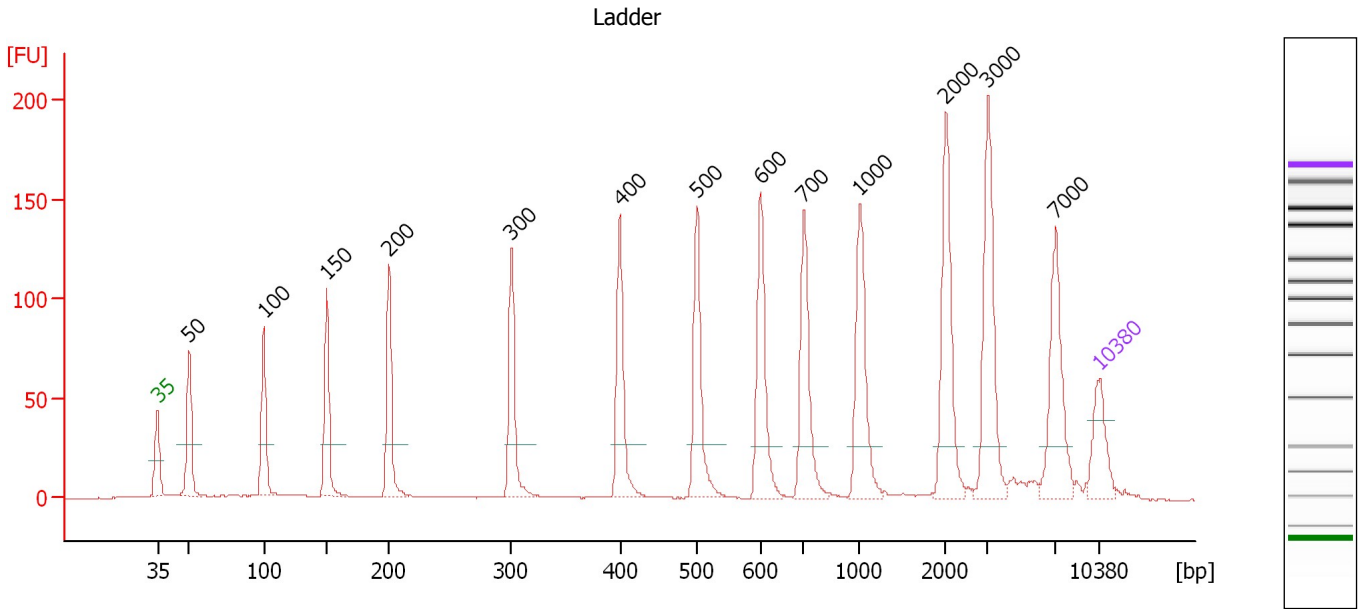
**Ladder**

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:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
 Modified: 12/2/2015 2:36:52 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

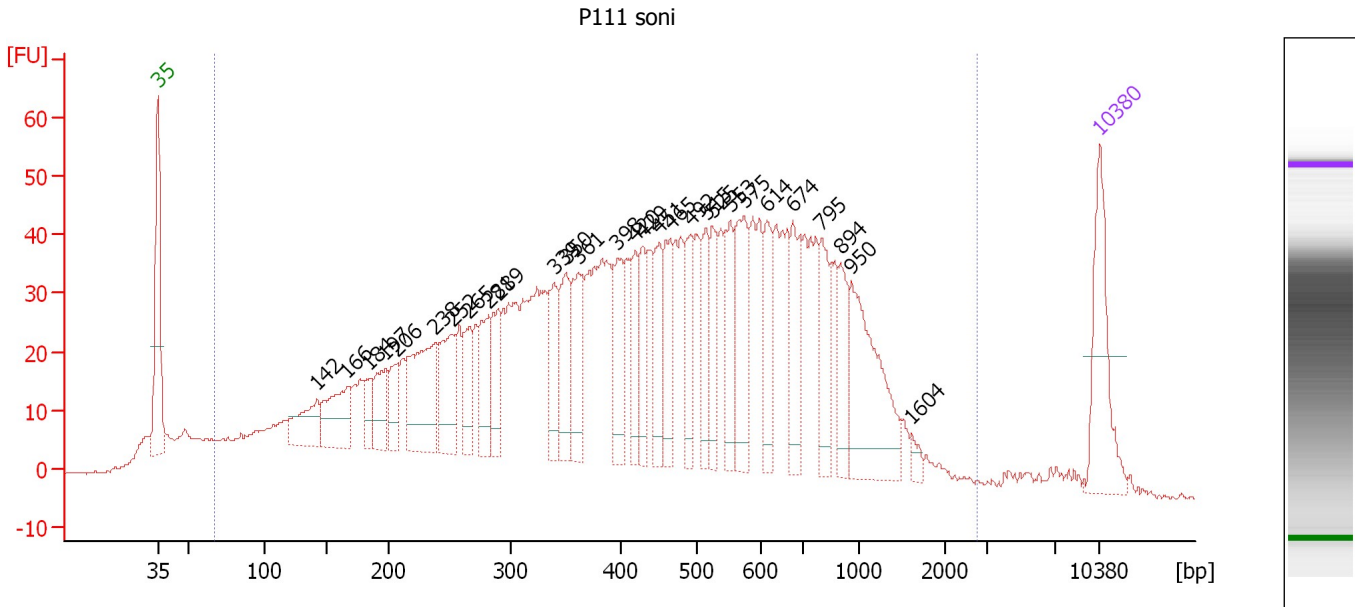
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.35
3	100	150.00	2,272.7	Ladder Peak	50.88
4	150	150.00	1,515.2	Ladder Peak	55.57
5	200	150.00	1,136.4	Ladder Peak	60.21
6	300	150.00	757.6	Ladder Peak	69.28
7	400	150.00	568.2	Ladder Peak	77.34
8	500	150.00	454.5	Ladder Peak	83.04
9	600	150.00	378.8	Ladder Peak	87.78
10	700	150.00	324.7	Ladder Peak	91.01
11	1,000	150.00	227.3	Ladder Peak	95.17
12	2,000	150.00	113.6	Ladder Peak	101.54
13	3,000	150.00	75.8	Ladder Peak	104.68
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
 Modified: 12/2/2015 2:36:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : P111 soni**

Number of peaks found: 29                      Corr. Area 1: 1,991.9  
 Noise: 0.2

**Peak table for sample 5 : P111 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	142	61.18	652.3		54.83
3	166	78.44	715.0		57.07
4	184	28.67	236.1		58.72
5	197	45.37	349.3		59.92
6	206	37.17	273.7		60.74
7	238	127.13	810.5		63.63
8	252	75.91	456.8		64.91
9	265	44.16	252.1		66.15
10	281	55.36	298.3		67.57
11	289	50.80	266.1		68.30
12	339	54.34	242.8		72.43
13	350	65.76	284.3		73.35
14	361	65.82	276.0		74.22
15	398	59.43	226.4		77.15
16	420	45.96	165.8		78.48
17	429	46.92	165.7		78.99
18	451	50.53	169.6		80.27
19	465	58.59	190.9		81.05
20	492	51.69	159.3		82.56
21	515	51.10	150.4		83.75
22	525	47.38	136.8		84.21
23	553	56.84	155.8		85.54
24	575	81.43	214.6		86.60
25	614	47.32	116.7		88.25

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
 Modified: 12/2/2015 2:36:52 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 5 : P111 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	674	60.12	135.1		90.17
27	795	53.16	101.3		92.33
28	894	43.03	72.9		93.70
29	950	131.41	209.5		94.48
30	1,604	7.42	7.0		99.02
31	10,380	75.00	10.9	Upper Marker	113.00

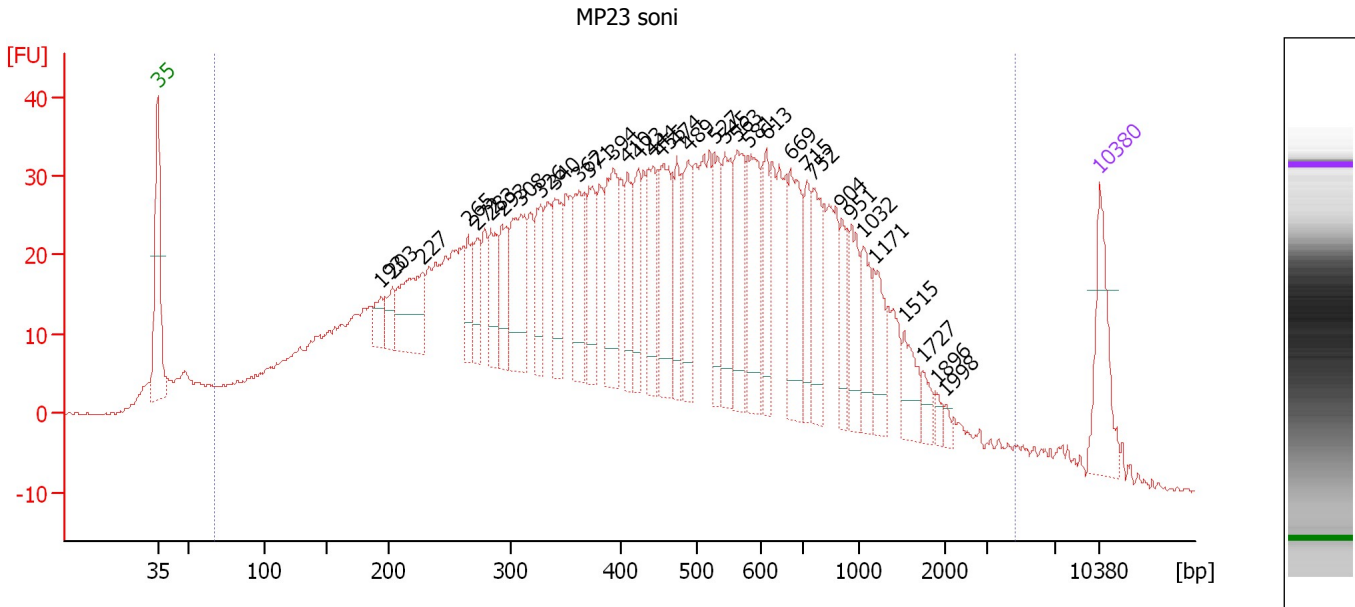
**Region table for sample 5 : P111 soni**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
67	2,718	507	1,991.9	18,636.8	3,559.66	95	62.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
 Modified: 12/2/2015 2:36:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : MP23 soni**

Number of peaks found: 35                      Corr. Area 1: 1,838.4  
 Noise: 0.2

**Peak table for sample 6 : MP23 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	193	29.13	228.7		59.56
3	203	32.38	242.2		60.44
4	227	116.49	776.8		62.68
5	265	48.83	279.5		66.08
6	272	49.29	274.6		66.74
7	283	59.74	320.1		67.72
8	293	61.25	317.3		68.60
9	308	120.18	590.5		69.96
10	326	66.65	309.5		71.40
11	340	69.55	309.8		72.52
12	362	88.79	371.4		74.29
13	371	66.19	270.0		75.04
14	394	111.76	429.7		76.86
15	410	62.11	229.7		77.88
16	423	68.10	243.7		78.68
17	444	89.41	305.2		79.84
18	455	119.60	398.7		80.45
19	474	64.10	204.9		81.57
20	489	79.77	247.3		82.41
21	527	70.44	202.6		84.32
22	545	83.69	232.8		85.16
23	563	93.39	251.2		86.04
24	581	108.99	284.2		86.88
25	613	60.54	149.7		88.19

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
 Modified: 12/2/2015 2:36:52 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 6 : MP23 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	669	109.32	247.6		90.01
27	715	55.48	117.5		91.22
28	752	77.04	155.1		91.73
29	904	43.30	72.6		93.83
30	951	58.26	92.8		94.49
31	1,032	53.59	78.7		95.37
32	1,171	48.71	63.0		96.26
33	1,515	37.47	37.5		98.45
34	1,727	15.87	13.9		99.80
35	1,896	8.16	6.5		100.87
36	1,998	6.99	5.3		101.53
37	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 6 : MP23 soni**

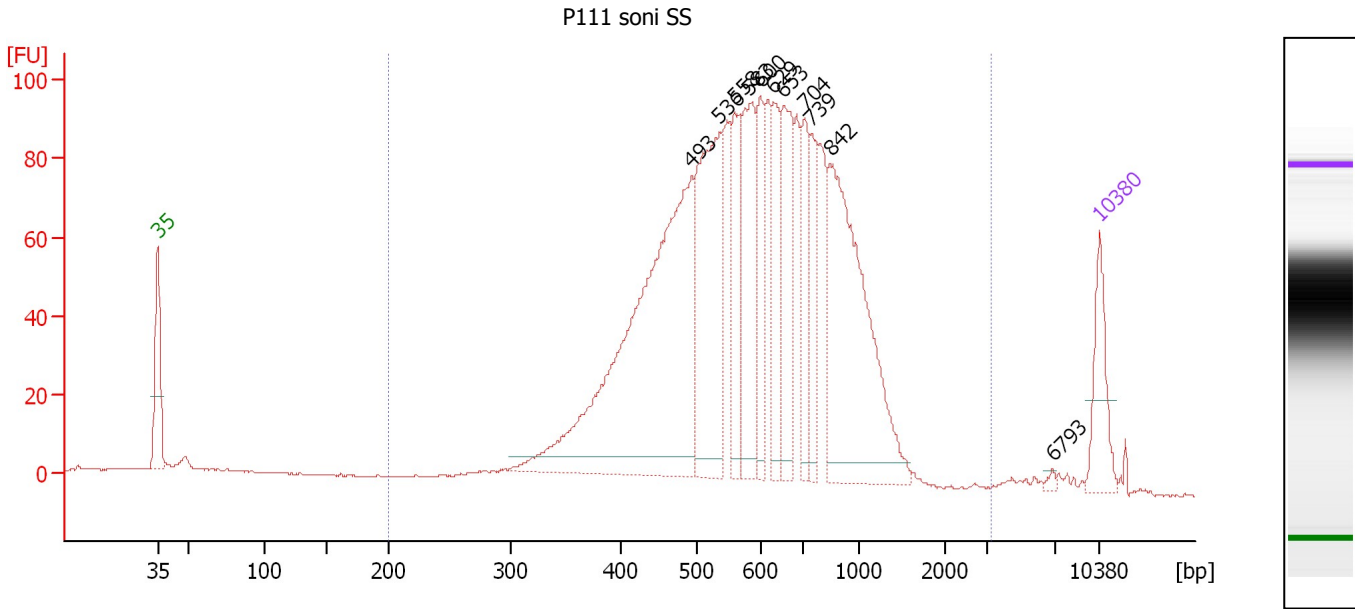
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
67	4,599	566	1,838.4	30,164.6	5,809.30	95	85.5



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
 Modified: 12/2/2015 2:36:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : P111 soni SS**

Number of peaks found: 11      Corr. Area 1: 1,927.4  
 Noise: 0.2

**Peak table for sample 7 : P111 soni SS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	493	869.95	2,672.3		82.66
3	536	366.74	1,036.2		84.76
4	558	130.75	354.7		85.81
5	583	215.14	559.4		86.96
6	600	111.17	280.8		87.77
7	629	127.60	307.2		88.73
8	653	168.05	389.9		89.49
9	704	105.61	227.2		91.07
10	739	100.07	205.2		91.55
11	842	461.17	829.7		92.98
12	6,793	4.33	1.0		109.46
13	10,380	75.00	10.9	Upper Marker	113.00

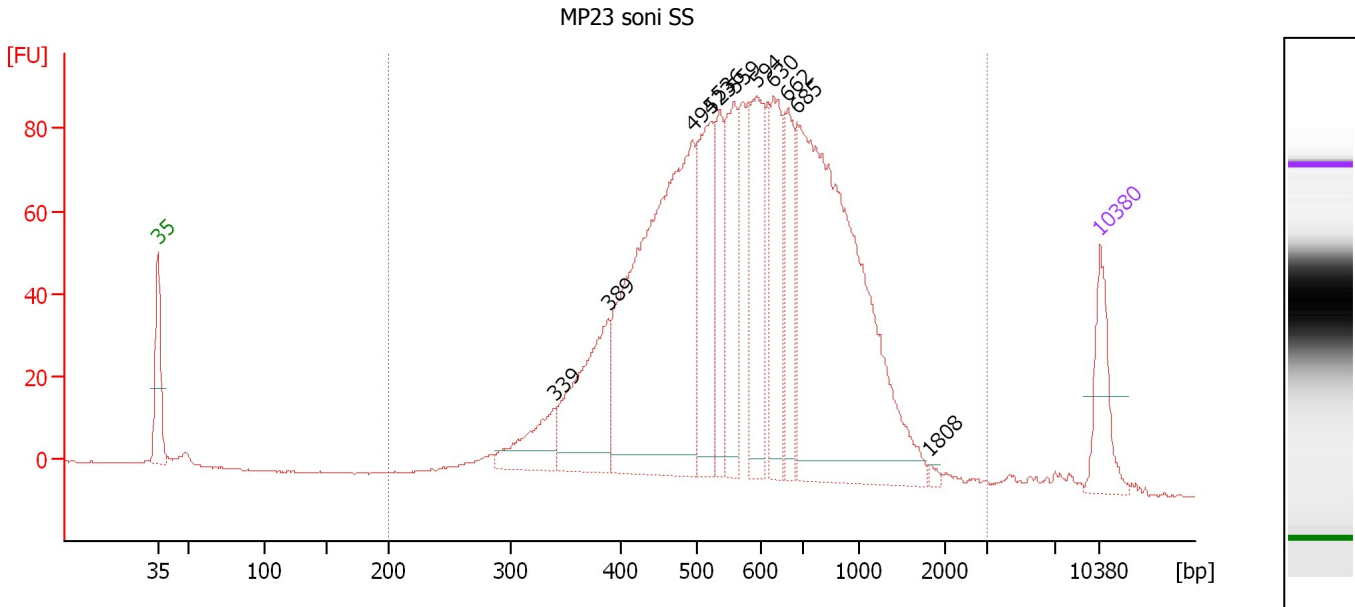
**Region table for sample 7 : P111 soni SS**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	3,124	641	1,927.4	9,057.5	3,302.58	94	38.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
 Modified: 12/2/2015 2:36:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : MP23 soni SS**

Number of peaks found: 11                      Corr. Area 1: 1,982.6  
 Noise: 0.2

**Peak table for sample 8 : MP23 soni SS**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	339	101.47	452.9		72.46
3	389	233.07	907.4		76.46
4	494	807.40	2,475.9		82.71
5	523	230.02	666.7		84.12
6	536	117.00	330.6		84.76
7	559	172.73	468.3		85.83
8	594	209.28	534.0		87.49
9	630	151.28	363.7		88.76
10	662	116.16	265.9		89.78
11	685	857.63	1,898.0		90.51
12	1,808	5.35	4.5		100.32
13	10,380	75.00	10.9	Upper Marker	113.00

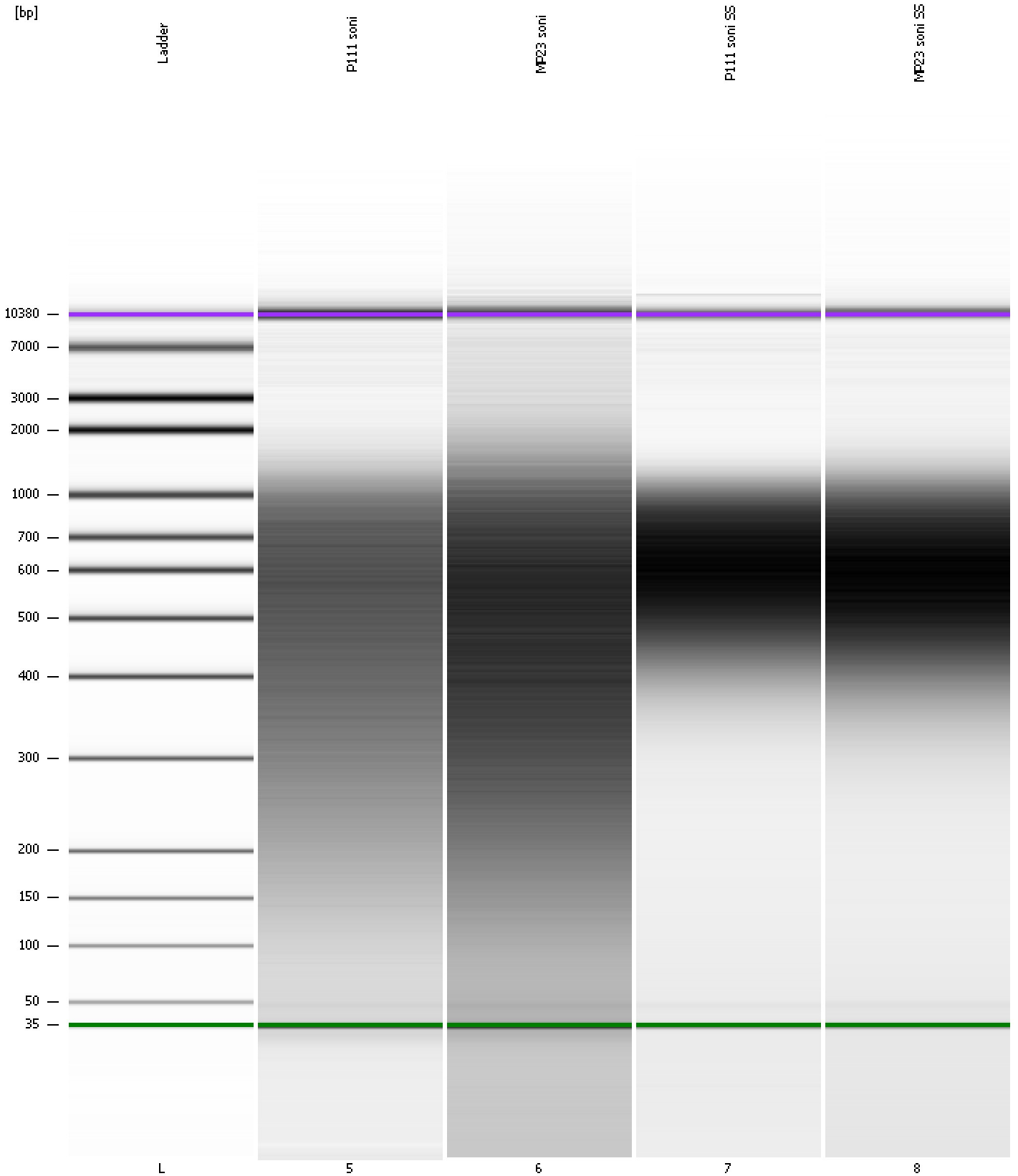
**Region table for sample 8 : MP23 soni SS**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,998	640	1,982.6	9,294.6	3,305.71	99	43.5

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad

Created: 12/2/2015 1:57:53 PM  
Modified: 12/2/2015 2:36:52 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay Created: 12/2/2015 1:57:53 PM  
 Data Path: C:\...ettings\Bioanalyzer\2015-12-02\2015-12-02\_005\_PI11\_MP23.xad Modified: 12/2/2015 2:36:52 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		12/2/2015 2:30:37 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-02\2015-12-02_005.xad)		Instrument	Run		12/2/2015 1:57:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2015 1:57:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2015 1:57:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2015 1:57:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2015 1:57:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2015 1:57:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2015 1:57:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1