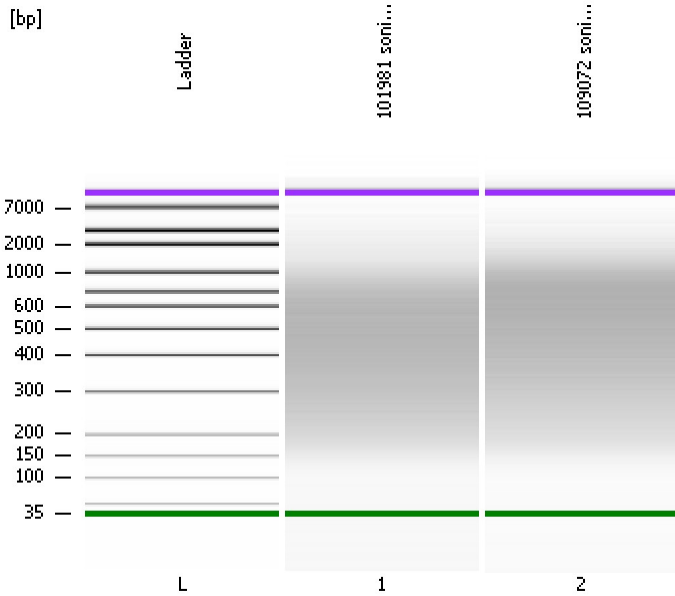


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
Modified: 10/30/2019 12:54:48 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

Assay Information:

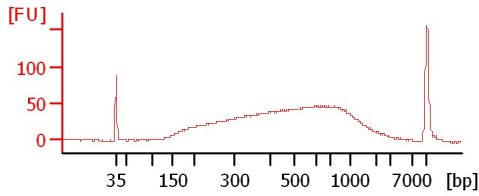
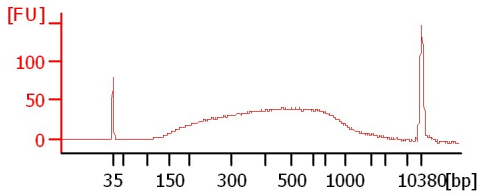
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy  
Assay Class: High Sensitivity DNA Assay  
Version: 1.03  
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

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

101981 soni DNA

109072 soni DNA



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
 Modified: 10/30/2019 12:54:48 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
101981 soni DNA		<input type="checkbox"/>				
109072 soni DNA		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
Modified: 10/30/2019 12:54:48 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

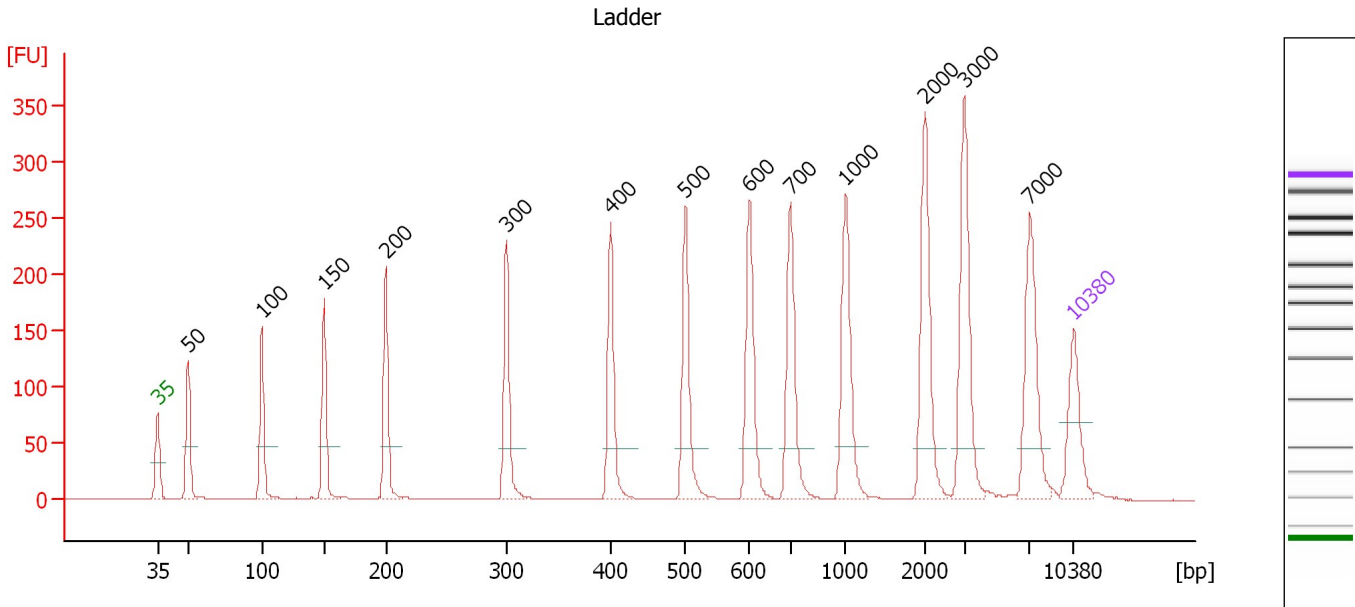
**Ladder**

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:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
 Modified: 10/30/2019 12:54:48 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

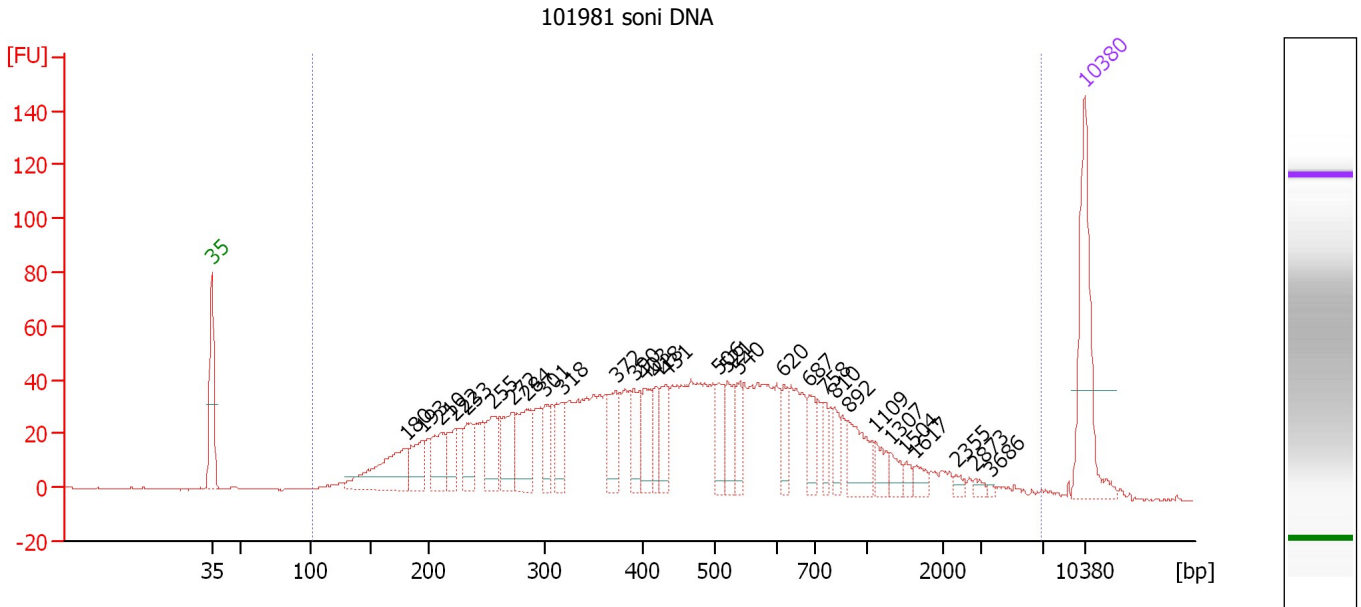
**Peak table for Ladder**

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.74
5	200	150.00	1,136.4	Ladder Peak	60.42
6	300	150.00	757.6	Ladder Peak	69.67
7	400	150.00	568.2	Ladder Peak	77.59
8	500	150.00	454.5	Ladder Peak	83.31
9	600	150.00	378.8	Ladder Peak	88.22
10	700	150.00	324.7	Ladder Peak	91.36
11	1,000	150.00	227.3	Ladder Peak	95.58
12	2,000	150.00	113.6	Ladder Peak	101.64
13	3,000	150.00	75.8	Ladder Peak	104.61
14	7,000	150.00	32.5	Ladder Peak	109.64
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 101981 soni DNA**

Number of peaks found: 30                      Corr. Area 1: 1,933.4  
 Noise: 0.3

**Peak table for sample 1 : 101981 soni DNA**

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	180	81.55	685.8		58.57
3	193	36.16	283.3		59.81
4	210	41.87	302.2		61.34
5	222	25.34	172.6		62.50
6	233	32.35	210.7		63.44
7	255	40.11	238.5		65.49
8	272	44.95	250.5		67.07
9	284	52.93	282.0		68.23
10	301	24.67	124.3		69.73
11	318	34.94	166.5		71.09
12	372	32.65	132.8		75.41
13	390	28.70	111.4		76.82
14	403	33.57	126.2		77.76
15	418	23.63	85.7		78.62
16	431	32.16	113.0		79.39
17	506	27.76	83.1		83.62
18	521	27.09	78.8		84.35
19	540	21.70	60.8		85.29
20	620	18.01	44.0		88.84
21	687	20.33	44.9		90.94
22	758	16.00	32.0		92.18
23	810	15.46	28.9		92.90
24	892	35.54	60.4		94.06
25	1,109	13.10	17.9		96.24

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
 Modified: 10/30/2019 12:54:48 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 1 : 101981 soni DNA

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,307	10.51	12.2		97.43
27	1,504	5.66	5.7		98.63
28	1,617	7.67	7.2		99.32
29	2,355	4.27	2.8		102.69
30	2,873	3.52	1.9		104.23
31	3,686	1.81	0.7		105.47
32	10,380	75.00	10.9	Upper Marker	113.00

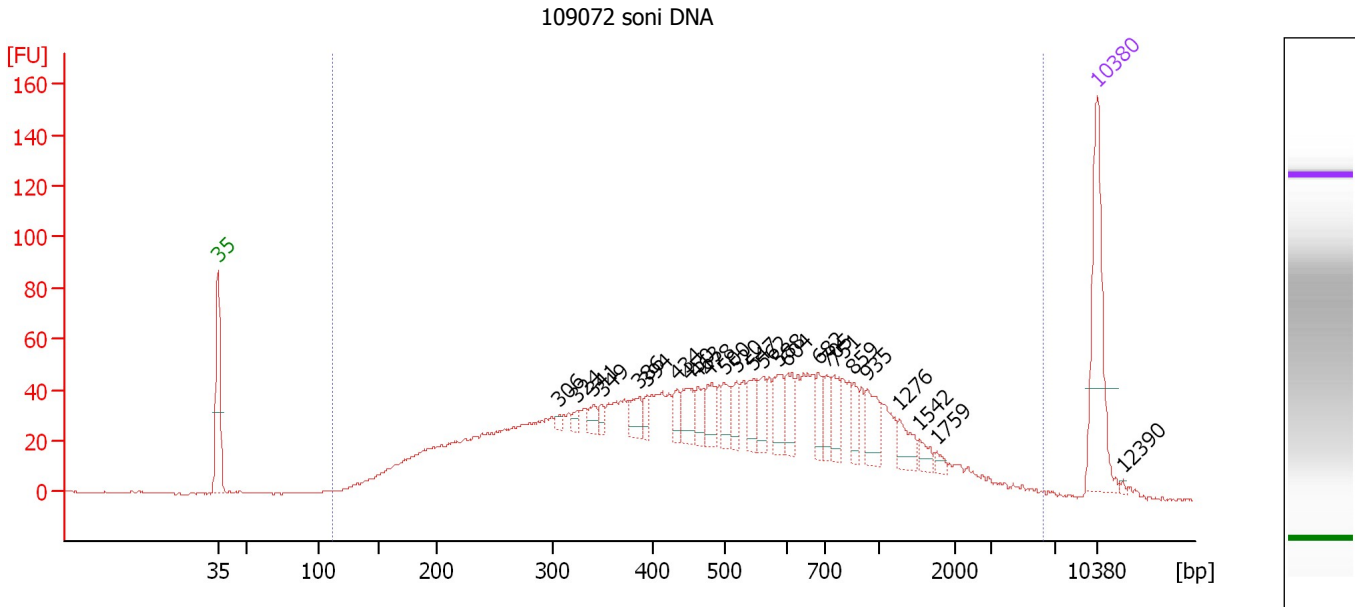
#### Region table for sample 1 : 101981 soni DNA

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
100	6,810	588	1,520.28	1,933.4	6,749.0	98	100.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
 Modified: 10/30/2019 12:54:48 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 109072 soni DNA**

Number of peaks found: 25                      Corr. Area 1: 2,052.0  
 Noise: 0.3

**Peak table for sample 2 : 109072 soni DNA**

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	306	3.63	18.0		70.17
3	324	6.07	28.4		71.57
4	341	10.33	46.0		72.88
5	349	7.10	30.8		73.56
6	386	16.76	65.8		76.49
7	394	9.78	37.6		77.13
8	434	13.09	45.7		79.55
9	450	23.78	80.1		80.44
10	463	16.92	55.4		81.20
11	478	20.04	63.5		82.05
12	500	17.47	53.0		83.29
13	520	16.35	47.6		84.30
14	547	18.11	50.2		85.62
15	562	18.47	49.8		86.34
16	588	26.48	68.3		87.61
17	604	21.16	53.1		88.34
18	682	16.33	36.3		90.80
19	705	15.11	32.4		91.44
20	751	22.64	45.7		92.07
21	859	12.80	22.6		93.60
22	935	24.70	40.0		94.66
23	1,276	16.13	19.2		97.25
24	1,542	7.85	7.7		98.86
25	1,759	4.30	3.7		100.18

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
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### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : 109072 soni DNA

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00
27	12,390	0.00	0.0		115.00

#### Region table for sample 2 : 109072 soni DNA

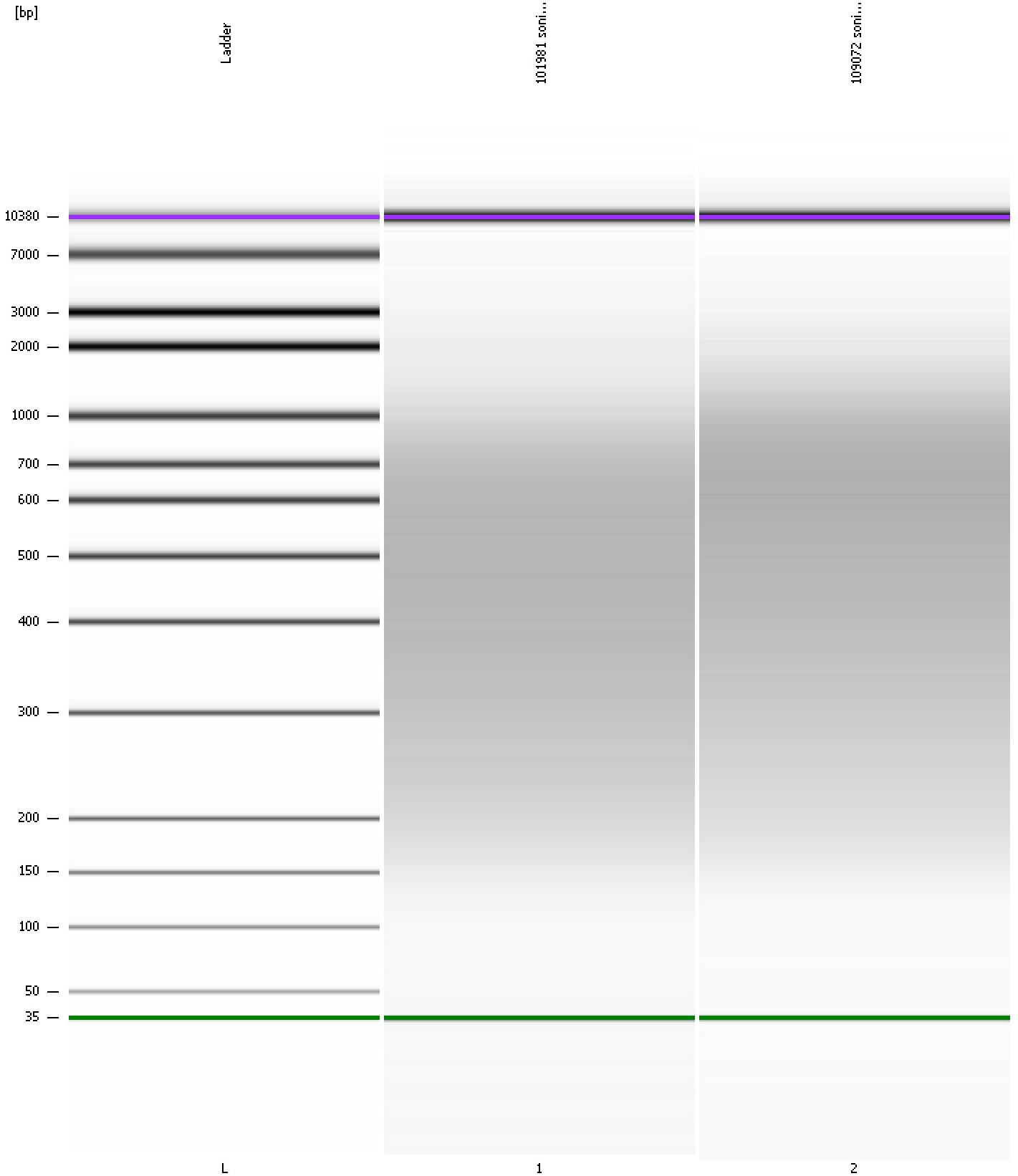
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
111	6,182	637	1,624.05	2,052.0	6,686.0	99	91.0



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
Modified: 10/30/2019 12:54:48 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ert\data\2019-10-30\2019-10-30\_001\_Ben\_Test\_Soni\_For\_BC.xad

Created: 10/30/2019 10:44:27 AM  
 Modified: 10/30/2019 12:54:48 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		10/30/2019 11:25:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-10-30\2019-10-30_001.xad)		Instrument	Run		10/30/2019 10:44:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/30/2019 10:44:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/30/2019 10:44:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/30/2019 10:44:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/30/2019 10:44:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/30/2019 10:44:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/30/2019 10:44:32 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1