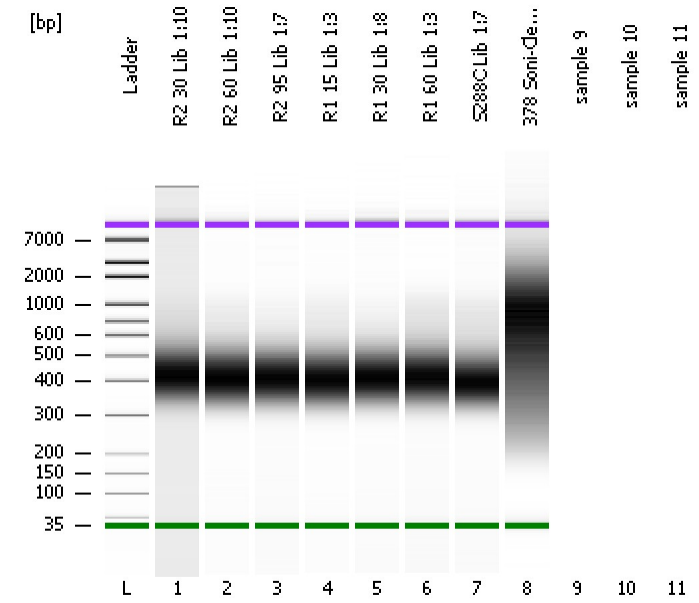
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

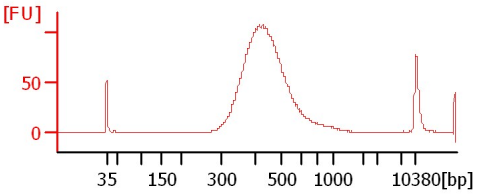
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

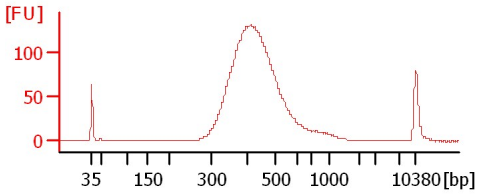
Chip Information:

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

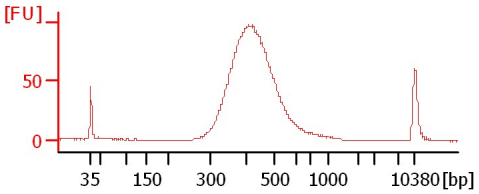
R2 30 Lib 1:10



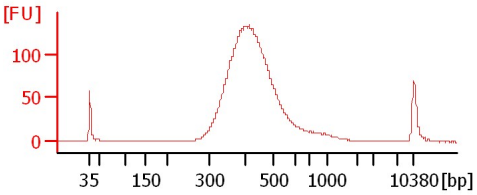
R2 60 Lib 1:10



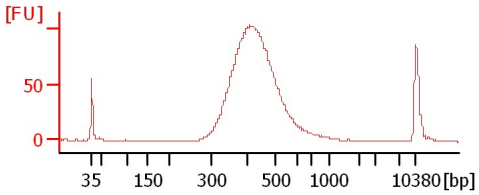
R2 95 Lib 1:7



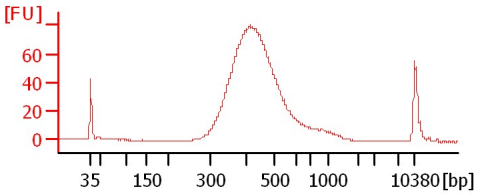
R1 15 Lib 1:3



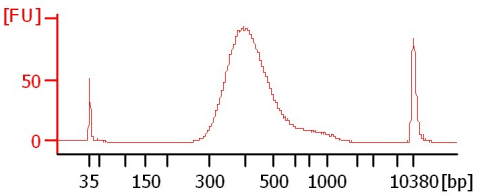
R1 30 Lib 1:8



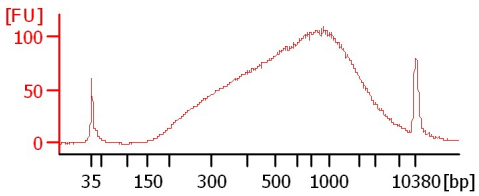
R1 60 Lib 1:3



S288C Lib 1:7



378 Soni-Cleaned 1:2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
R2 30 Lib 1:10		☐	✔			
R2 60 Lib 1:10		☐	✔			
R2 95 Lib 1:7		☐	✔			
R1 15 Lib 1:3		☐	✔			
R1 30 Lib 1:8		☐	✔			
R1 60 Lib 1:3		☐	✔			
S288C Lib 1:7		☐	✔			
378 Soni-Cleaned 1:2		☐	✔			
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 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

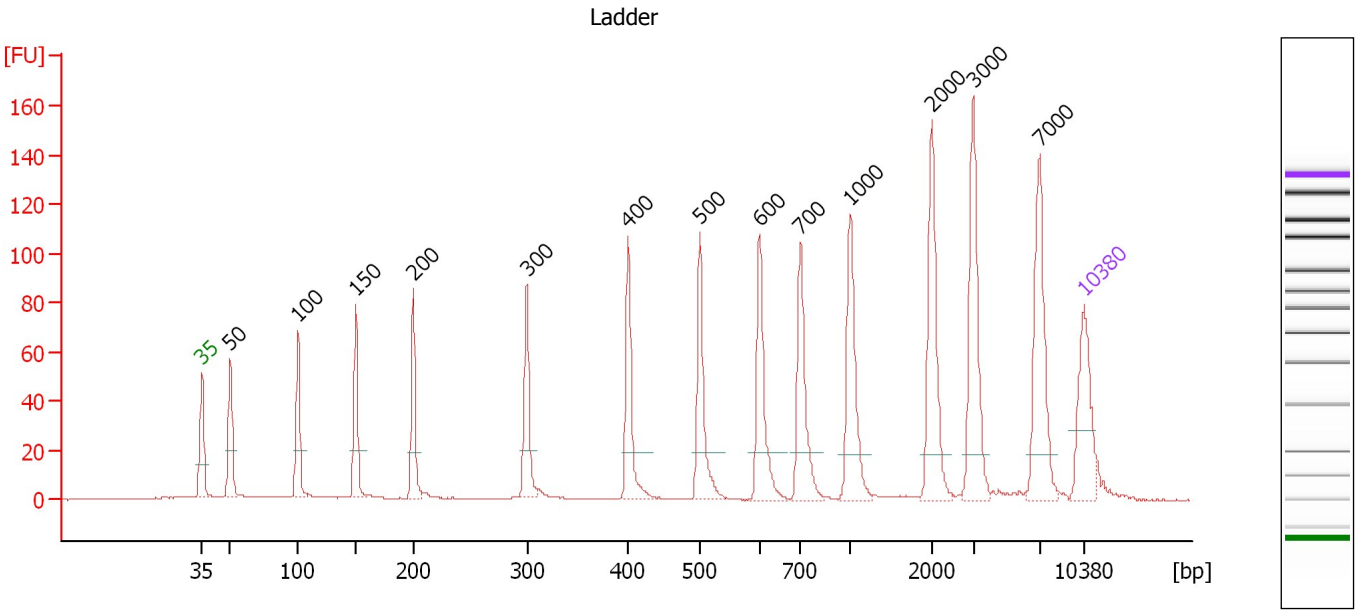
Ladder

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\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

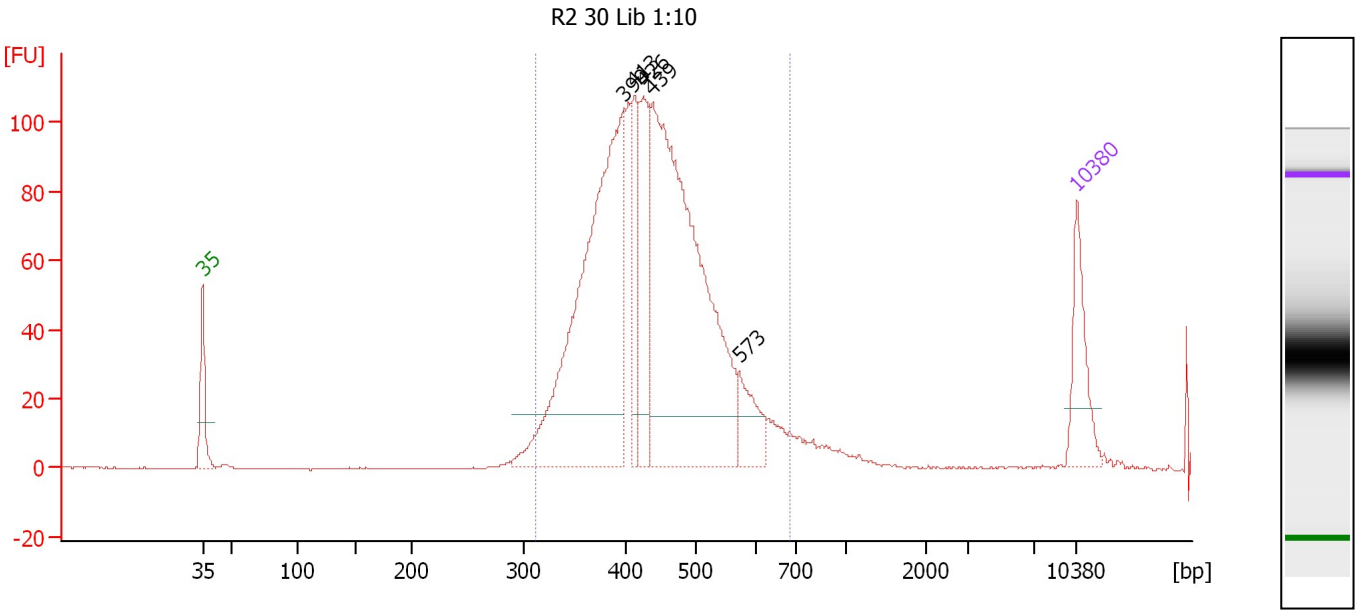
Peak table for Ladder

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\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : R2 30 Lib 1:10

Height Threshold [FU] : 15

Overall Results for sample 1 : R2 30 Lib 1:10

Number of peaks found:	5	Corr. Area 1:	1,531.4
Noise:	0.1		

Peak table for sample 1 : R2 30 Lib 1:10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	399	726.44	2,759.9	
3	413	106.28	389.6	
4	426	177.21	630.3	
5	439	830.03	2,866.9	
6	573	69.28	183.3	
7	10,380	75.00	10.9	Upper Marker

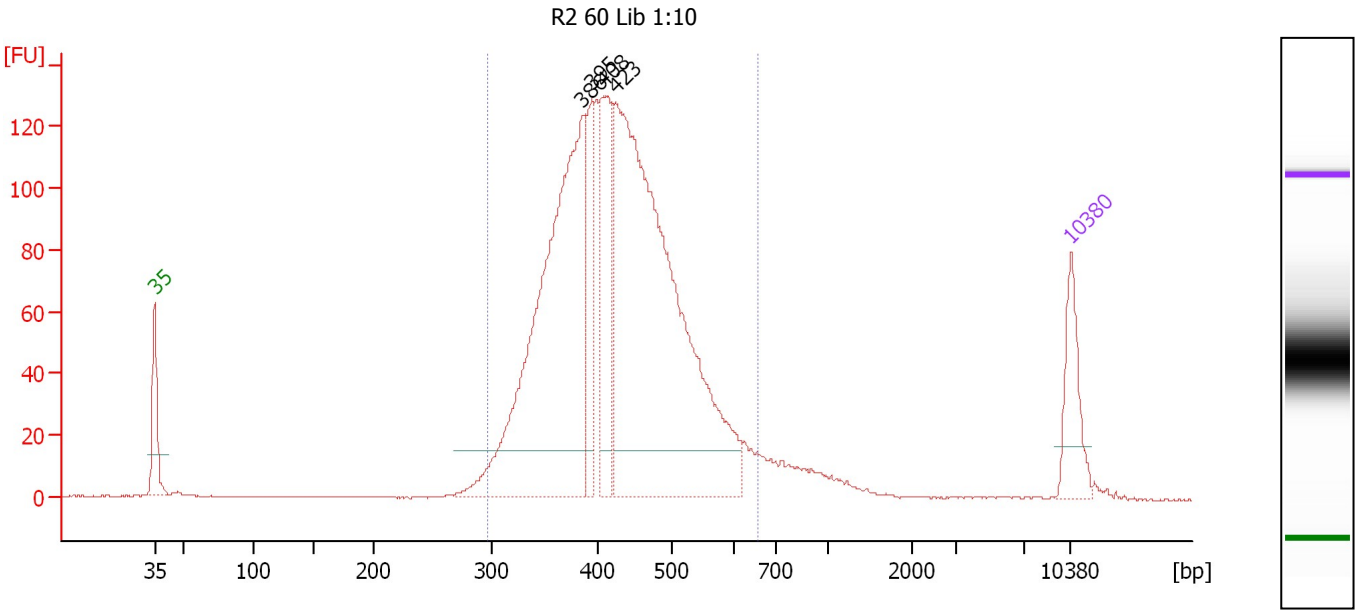
Region table for sample 1 : R2 30 Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
311	684	440	7,215.3	2,029.00	1,531.4	96	16.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : R2 60 Lib 1:10

Height Threshold [FU] : 15

Overall Results for sample 2 : R2 60 Lib 1:10

Number of peaks found:	4	Corr. Area 1:	1,972.9
Noise:	0.2		

Peak table for sample 2 : R2 60 Lib 1:10

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	386	856.57	3,363.5	
3	395	123.88	475.1	
4	408	219.75	815.7	
5	423	1,144.40	4,095.3	
6	10,380	75.00	10.9	Upper Marker

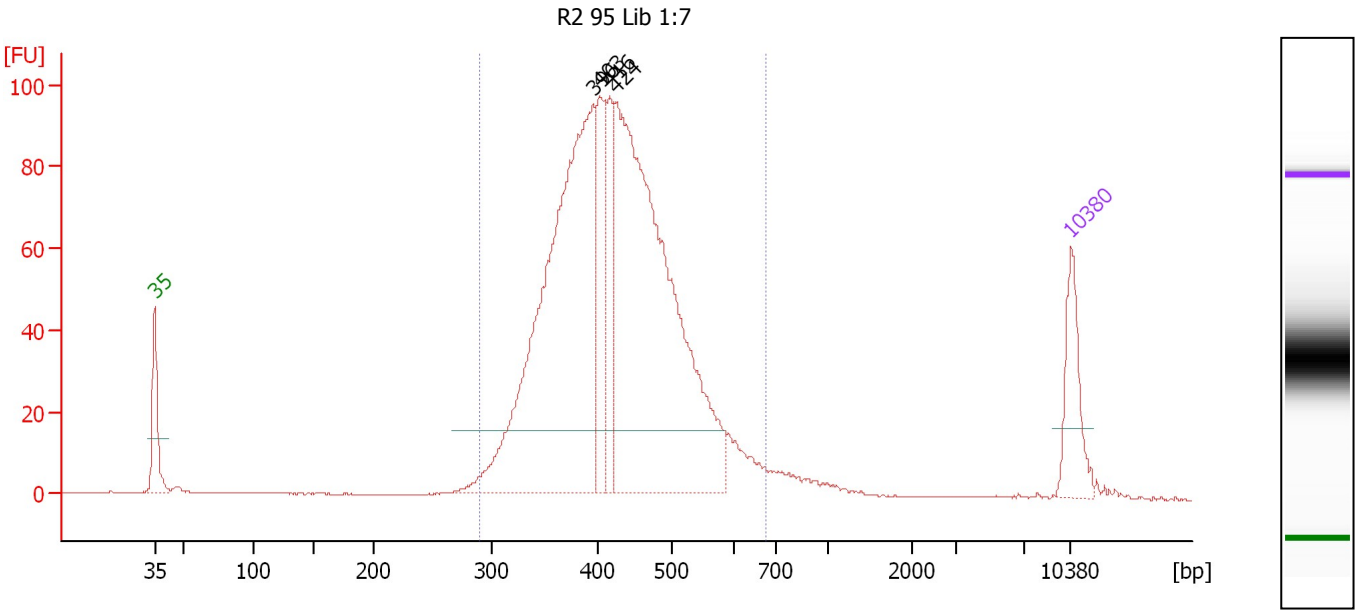
Region table for sample 2 : R2 60 Lib 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	659	430	9,077.0	2,489.15	1,972.9	93	16.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : R2 95 Lib 1:7

Height Threshold [FU] : 15

Overall Results for sample 3 : R2 95 Lib 1:7

Number of peaks found:	4	Corr. Area 1:	1,431.2
Noise:	0.1		

Peak table for sample 3 : R2 95 Lib 1:7

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	396	885.34	3,384.6	
3	403	160.05	602.4	
4	416	114.34	416.0	
5	424	941.76	3,363.6	
6	10,380	75.00	10.9	Upper Marker

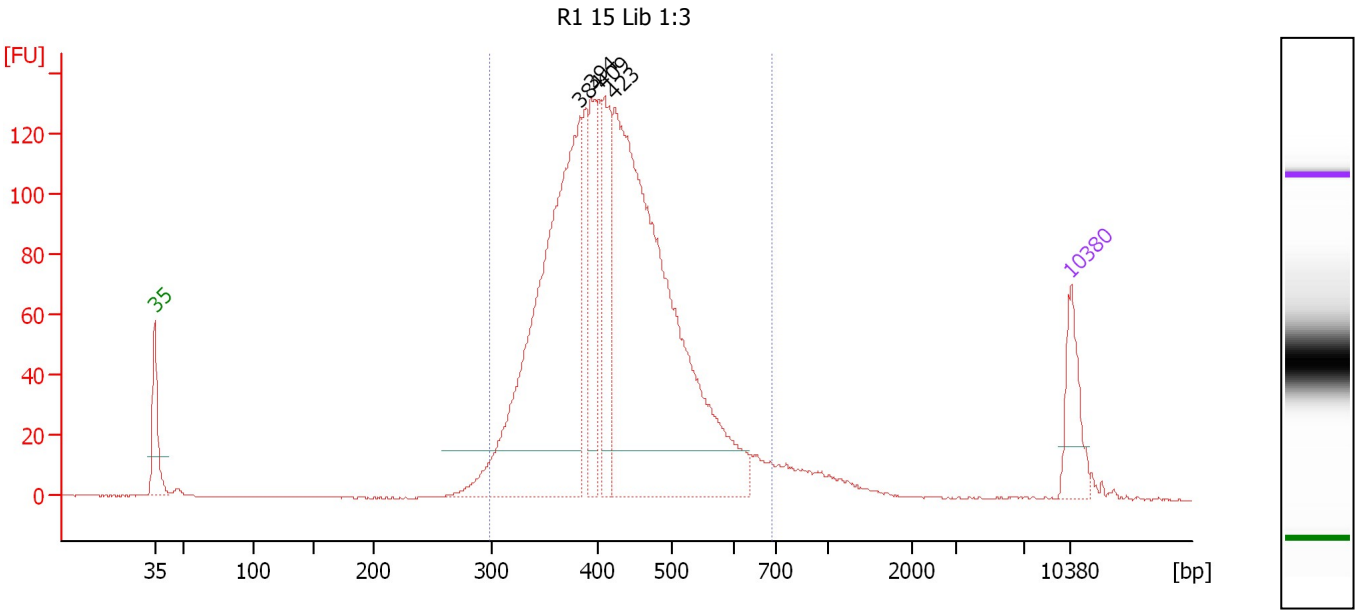
Region table for sample 3 : R2 95 Lib 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
290	674	428	8,141.3	2,226.81	1,431.2	94	16.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 4 : R1 15 Lib 1:3

Height Threshold [FU] : 15

Overall Results for sample 4 : R1 15 Lib 1:3

Number of peaks found:	4	Corr. Area 1:	1,951.1
Noise:	0.1		

Peak table for sample 4 : R1 15 Lib 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	384	951.77	3,759.5	
3	394	182.94	703.1	
4	409	211.73	783.8	
5	423	1,212.38	4,345.6	
6	10,380	75.00	10.9	Upper Marker

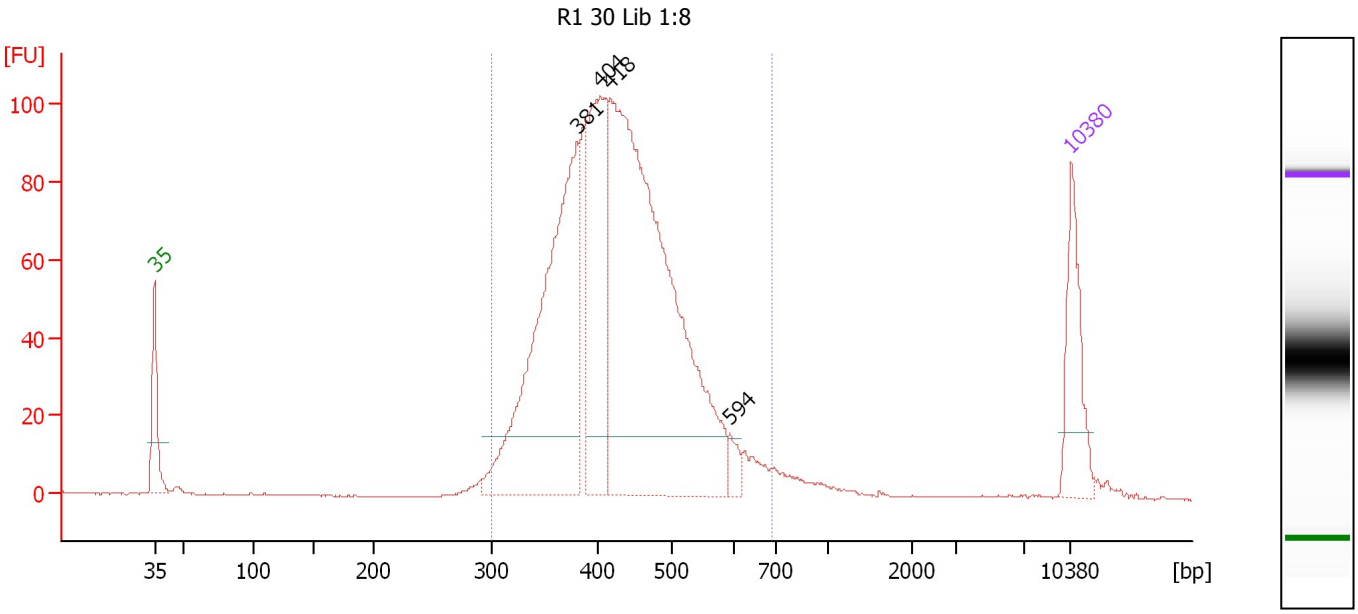
Region table for sample 4 : R1 15 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
298	688	427	10,173.5	2,770.53	1,951.1	94	17.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : R1 30 Lib 1:8

Height Threshold [FU] : 15

Overall Results for sample 5 : R1 30 Lib 1:8

Number of peaks found:	4	Corr. Area 1:	1,471.4
Noise:	0.1		

Peak table for sample 5 : R1 30 Lib 1:8

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	381	487.63	1,939.7	
3	404	254.16	952.4	
4	418	821.92	2,979.7	
5	594	16.10	41.1	
6	10,380	75.00	10.9	Upper Marker

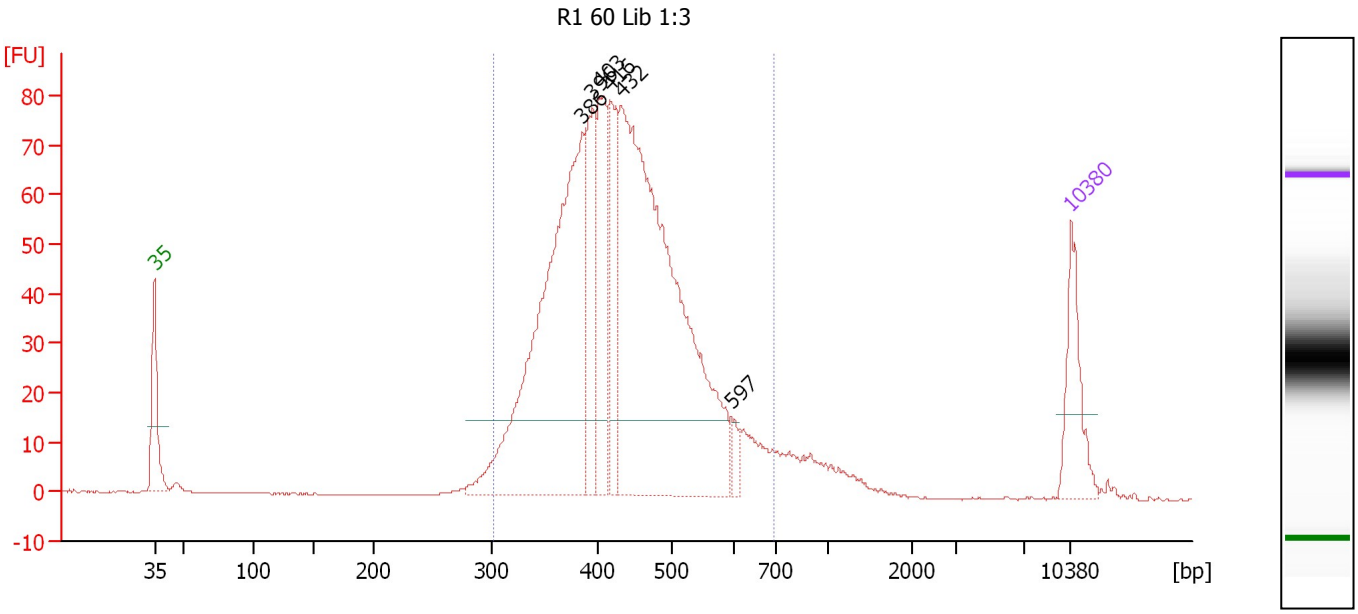
Region table for sample 5 : R1 30 Lib 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
299	692	432	6,106.9	1,683.13	1,471.4	96	16.6	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : R1 60 Lib 1:3

Height Threshold [FU] : 15

Overall Results for sample 6 : R1 60 Lib 1:3

Number of peaks found:	6	Corr. Area 1:	1,193.1
Noise:	0.1		

Peak table for sample 6 : R1 60 Lib 1:3

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	386	677.09	2,658.4	
3	396	152.10	582.5	
4	403	173.65	652.1	
5	416	119.57	435.2	
6	432	911.59	3,200.3	
7	597	18.01	45.7	
8	10,380	75.00	10.9	Upper Marker

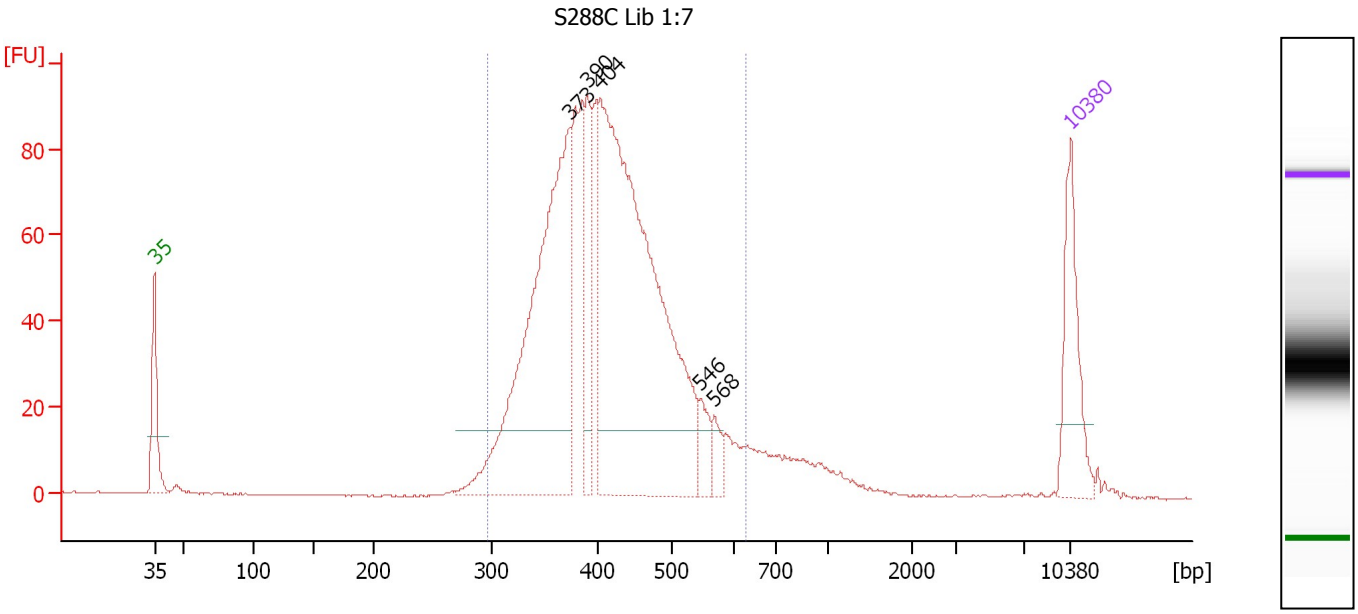
Region table for sample 6 : R1 60 Lib 1:3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
301	692	437	7,604.4	2,114.43	1,193.0	94	17.5	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : S288C Lib 1:7

Height Threshold [FU] : 15

Overall Results for sample 7 : S288C Lib 1:7

Number of peaks found:	5	Corr. Area 1:	1,307.3
Noise:	0.1		

Peak table for sample 7 : S288C Lib 1:7

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	373	499.01	2,025.7	
3	390	88.96	345.3	
4	404	711.95	2,668.6	
5	546	26.78	74.3	
6	568	18.96	50.6	
7	10,380	75.00	10.9	Upper Marker

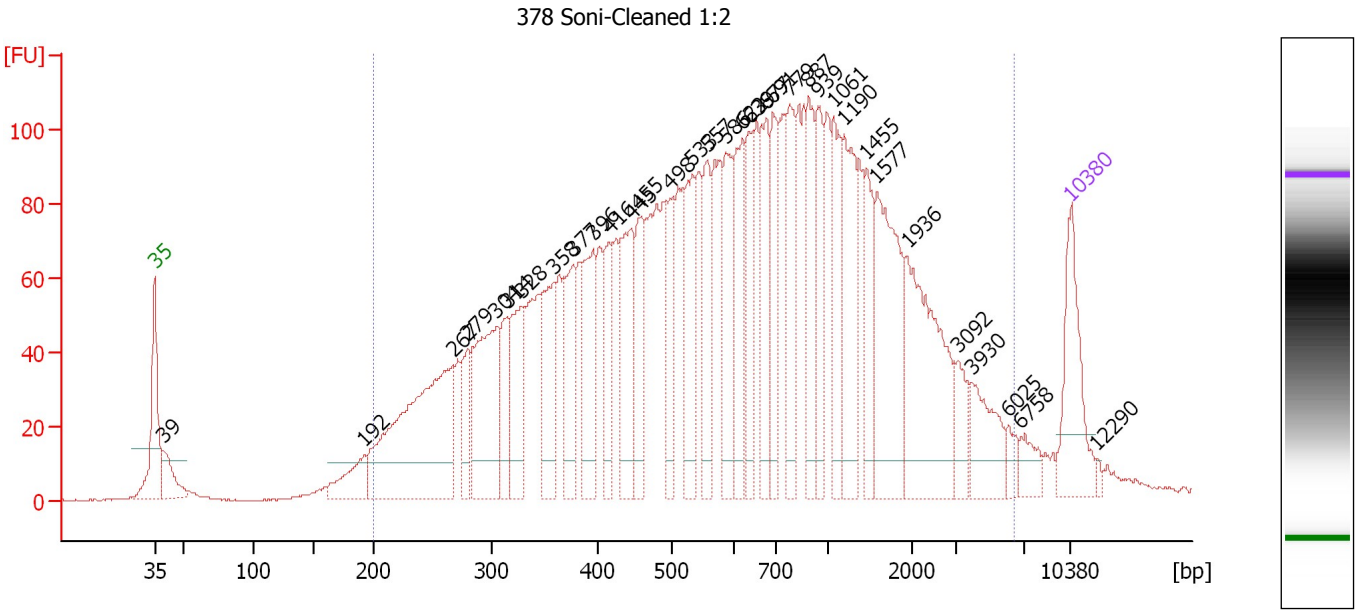
Region table for sample 7 : S288C Lib 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
296	628	417	5,831.3	1,558.78	1,307.3	92	16.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : 378 Soni-Cleaned 1:2

Height Threshold [FU] : 10

Overall Results for sample 8 : 378 Soni-Cleaned 1:2

Number of peaks found:	34	Corr. Area 1:	3,786.7
Noise:	0.2		

Peak table for sample 8 : 378 Soni-Cleaned 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	39	52.55	2,024.7	
3	192	53.31	420.8	
4	267	324.38	1,839.9	
5	279	51.62	279.9	
6	304	174.24	868.7	
7	314	58.41	281.6	
8	328	95.29	440.1	
9	358	99.30	419.7	
10	377	85.53	343.9	
11	396	100.39	384.3	
12	416	58.31	212.4	
13	445	114.09	388.5	
14	455	75.92	253.0	
15	498	64.44	196.3	
16	533	94.63	268.8	
17	557	79.99	217.6	
18	586	89.05	230.1	
19	622	84.76	206.6	
20	639	67.50	160.2	
21	677	74.73	167.3	
22	691	75.63	165.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : 378 Soni-Cleaned 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
23	779	84.82	165.0	
24	887	75.17	128.5	
25	939	67.07	108.2	
26	1,061	74.38	106.2	
27	1,190	96.95	123.4	
28	1,455	55.60	57.9	
29	1,577	145.55	139.8	
30	1,936	156.33	122.3	
31	3,092	28.44	13.9	
32	3,930	50.55	19.5	
33	6,025	14.14	3.6	
34	6,758	19.65	4.4	
35	10,380	75.00	10.9	Upper Marker
36	12,290	0.00	0.0	

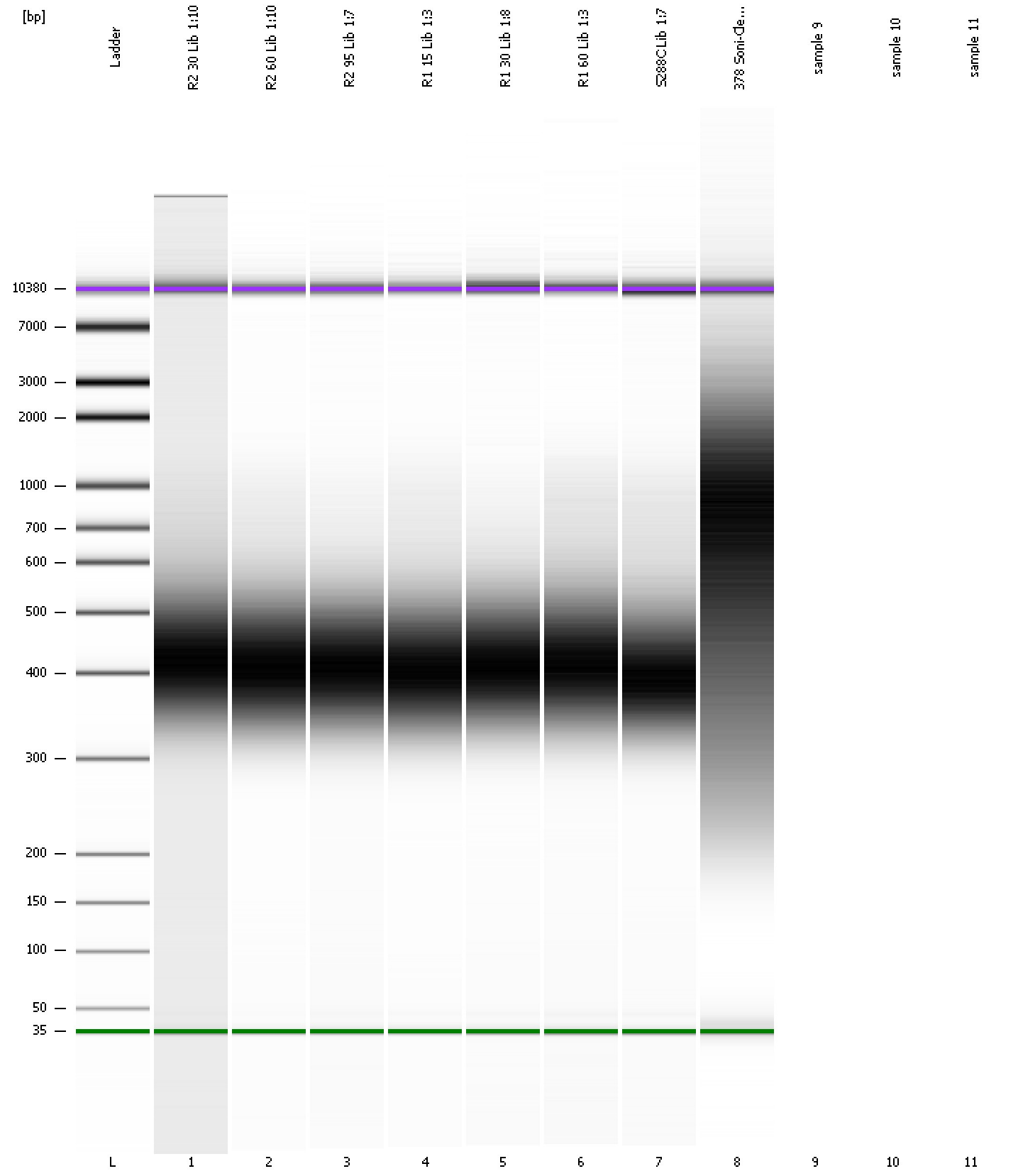
Region table for sample 8 : 378 Soni-Cleaned 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	6,377	930	11,906.1	3,843.36	3,786.7	96	97.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 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\2013-02-05\2013-02-05_005.xad

Created: 2/5/2013 4:53:11 PM
Modified: 2/5/2013 5:28:10 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		2/5/2013 5:25:50 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-02-05\2013-02-05_005.xad)		Instrument	Run		2/5/2013 4:53:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/5/2013 4:53:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/5/2013 4:53:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/5/2013 4:53:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/5/2013 4:53:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/5/2013 4:53:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/5/2013 4:53:11 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1