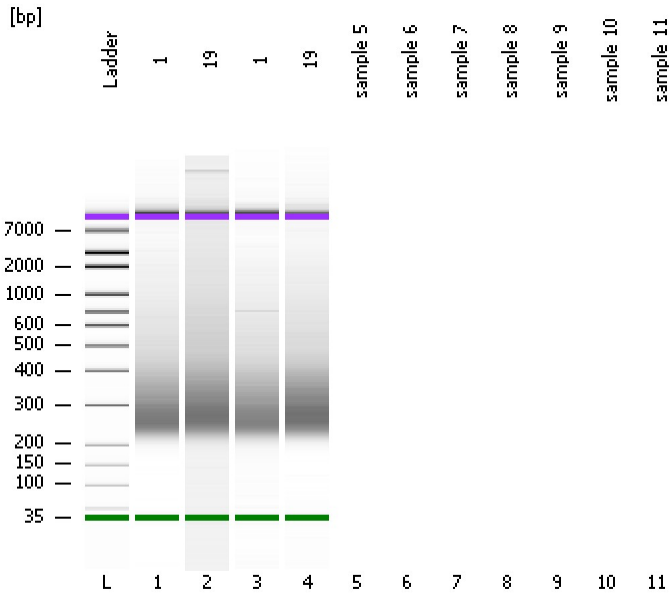


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
Modified: 11/17/2014 10:49:28 AM

Electrophoresis File Run Summary



Instrument Information:

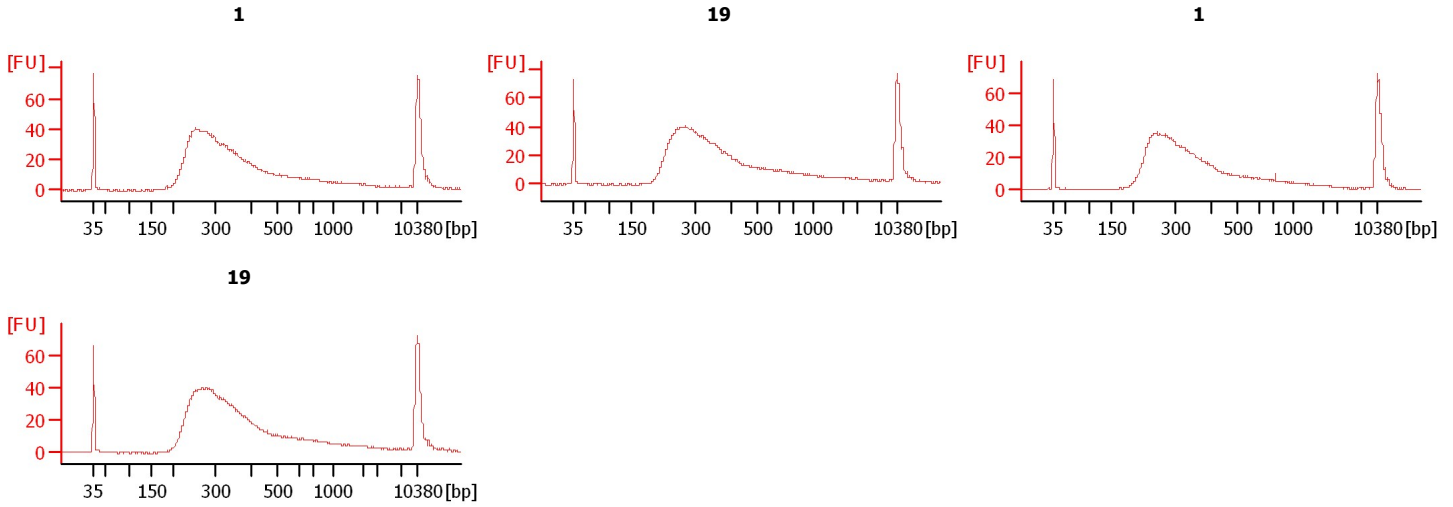
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
Modified: 11/17/2014 10:49:28 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1		<input type="checkbox"/>				
19		<input type="checkbox"/>				
1		<input type="checkbox"/>				
19		<input type="checkbox"/>				
sample 5		<input type="checkbox"/>				
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<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\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
Modified: 11/17/2014 10:49:28 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

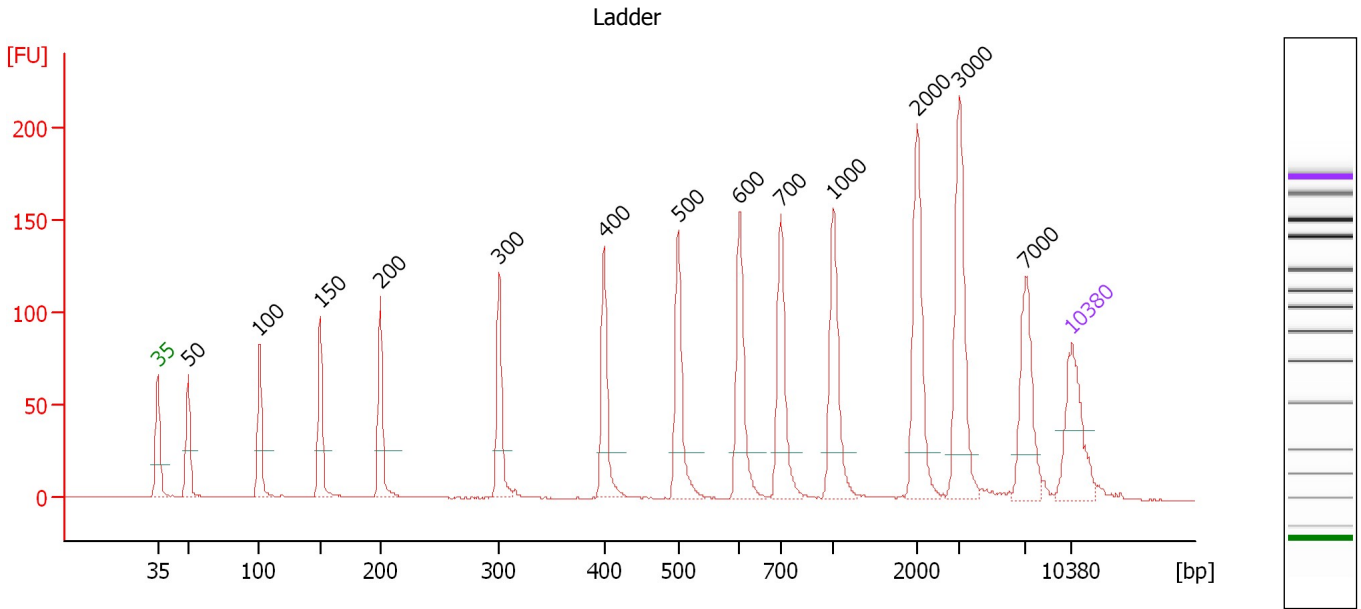
Ladder

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\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

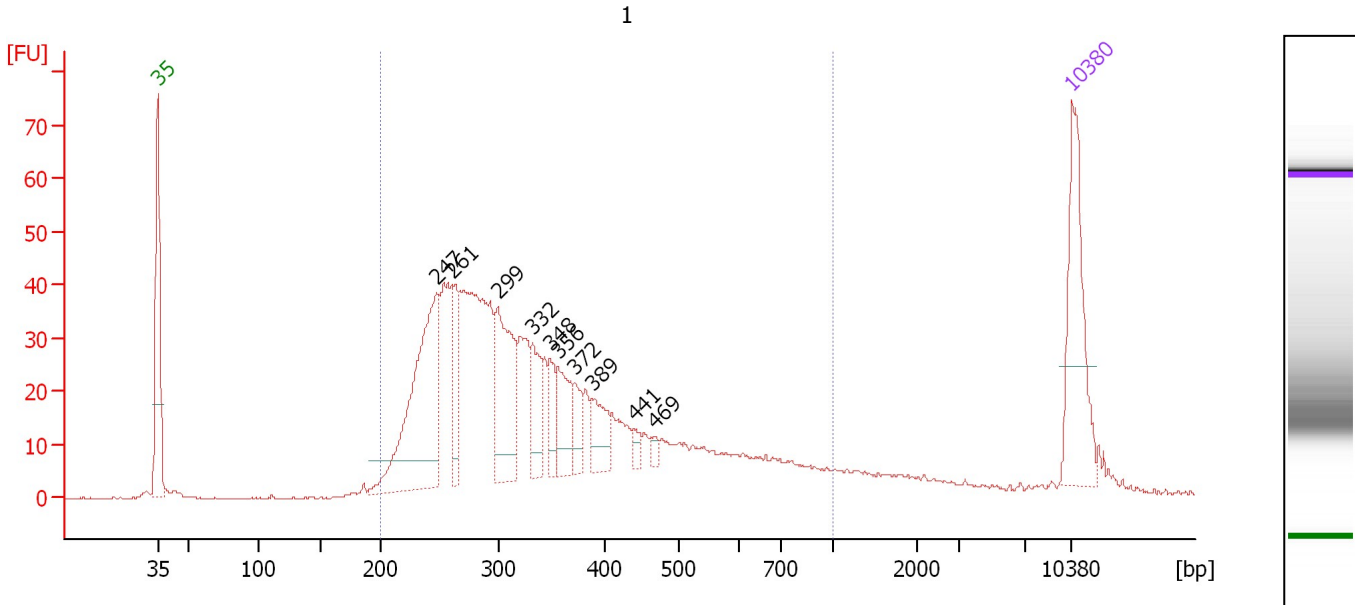
Peak table for Ladder

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\2014-11-17\2014-11-17_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1

Number of peaks found: 10 Corr. Area 1: 898.4
 Noise: 0.1

Peak table for sample 1 : 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	247	202.02	1,237.4	
3	261	49.33	286.8	
4	299	104.89	531.9	
5	332	38.49	175.6	
6	348	24.38	106.1	
7	356	42.31	180.0	
8	372	19.07	77.6	
9	389	28.98	112.9	
10	441	7.41	25.5	
11	469	4.94	16.0	
12	10,380	75.00	10.9	Upper Marker

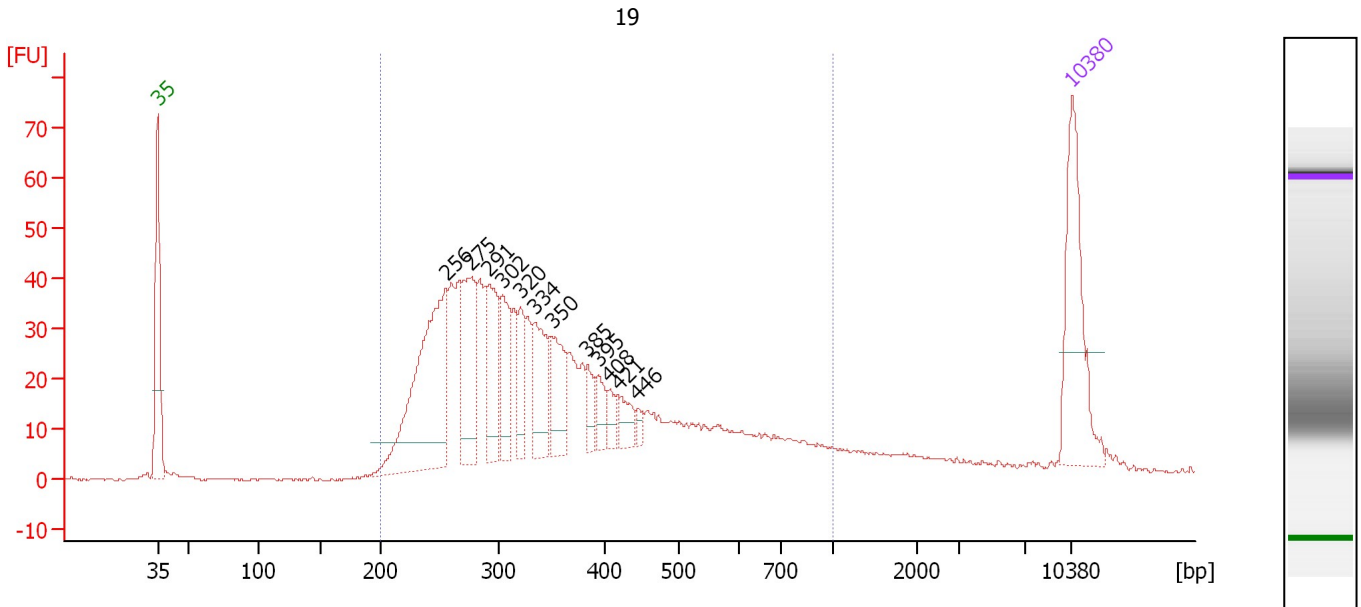
Region table for sample 1 : 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	364	1,000	898.4	92	39.1	1,199.52	5,790.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
 Modified: 11/17/2014 10:49:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 19

Number of peaks found: 12 Corr. Area 1: 926.0
 Noise: 0.2

Peak table for sample 2 : 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	256	198.55	1,177.2	
3	275	87.30	480.4	
4	291	69.16	359.9	
5	302	48.66	243.8	
6	320	31.02	146.7	
7	334	54.19	245.9	
8	350	45.91	198.6	
9	385	16.52	65.1	
10	395	17.68	67.9	
11	408	11.94	44.4	
12	421	17.09	61.5	
13	446	6.02	20.5	
14	10,380	75.00	10.9	Upper Marker

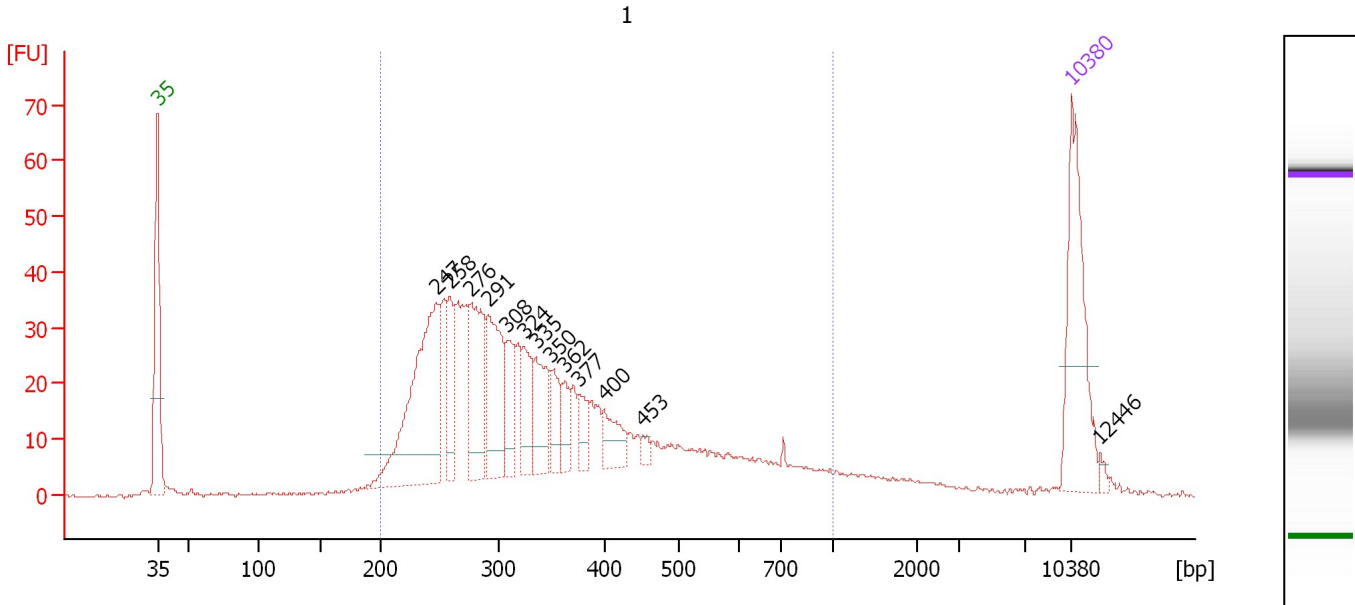
Region table for sample 2 : 19

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	371	1,000	926.0	92	38.9	1,139.58	5,395.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
 Modified: 11/17/2014 10:49:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1

Number of peaks found: 13 Corr. Area 1: 808.3
 Noise: 0.3

Peak table for sample 3 : 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	247	178.57	1,096.3	
3	258	42.75	250.7	
4	276	82.49	452.9	
5	291	73.49	382.6	
6	308	34.59	170.4	
7	324	36.09	169.0	
8	335	44.26	200.2	
9	350	25.29	109.5	
10	362	17.23	72.1	
11	377	15.87	63.8	
12	400	23.99	90.8	
13	453	5.09	17.0	
14	10,380	75.00	10.9	Upper Marker
15	12,446	0.00	0.0	

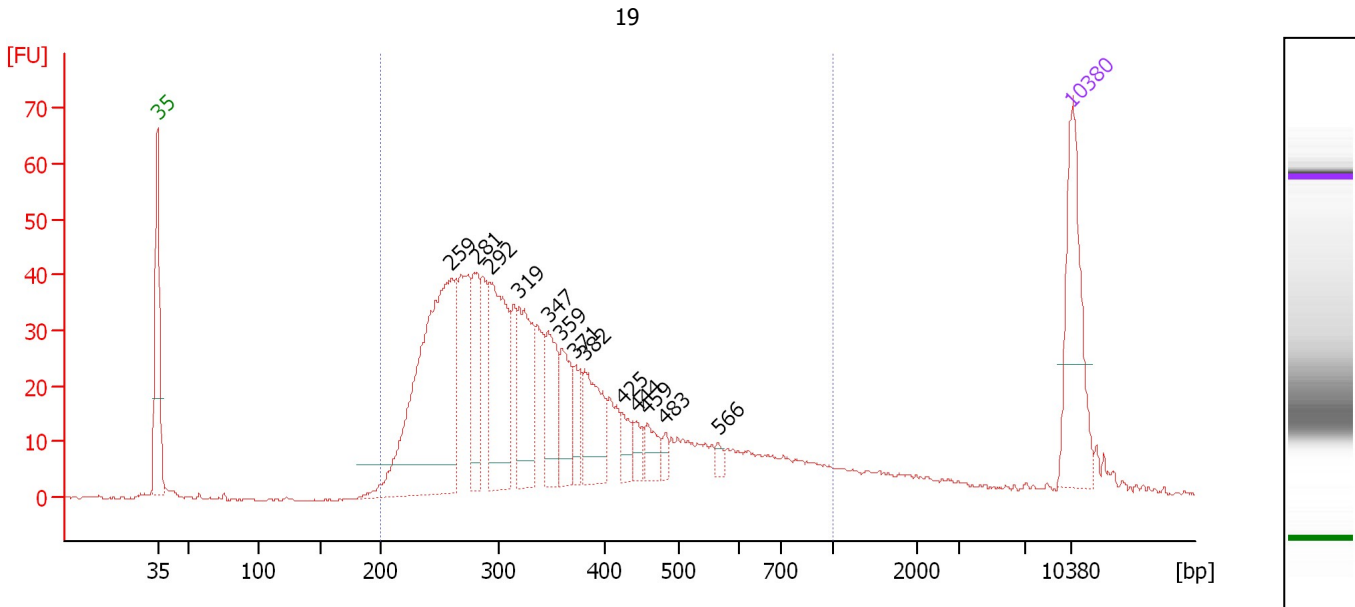
Region table for sample 3 : 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	364	1,000	808.3	90	39.5	1,054.03	5,102.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
 Modified: 11/17/2014 10:49:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 19

Number of peaks found: 13 Corr. Area 1: 936.7
 Noise: 0.2

Peak table for sample 4 : 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	259	308.73	1,804.2	
3	281	60.06	324.3	
4	292	118.58	614.7	
5	319	84.39	400.9	
6	347	55.49	242.5	
7	359	43.61	183.9	
8	371	22.70	92.6	
9	382	54.78	217.4	
10	425	16.73	59.6	
11	444	13.11	44.8	
12	459	18.99	62.7	
13	483	7.32	23.0	
14	566	5.57	14.9	
15	10,380	75.00	10.9	Upper Marker

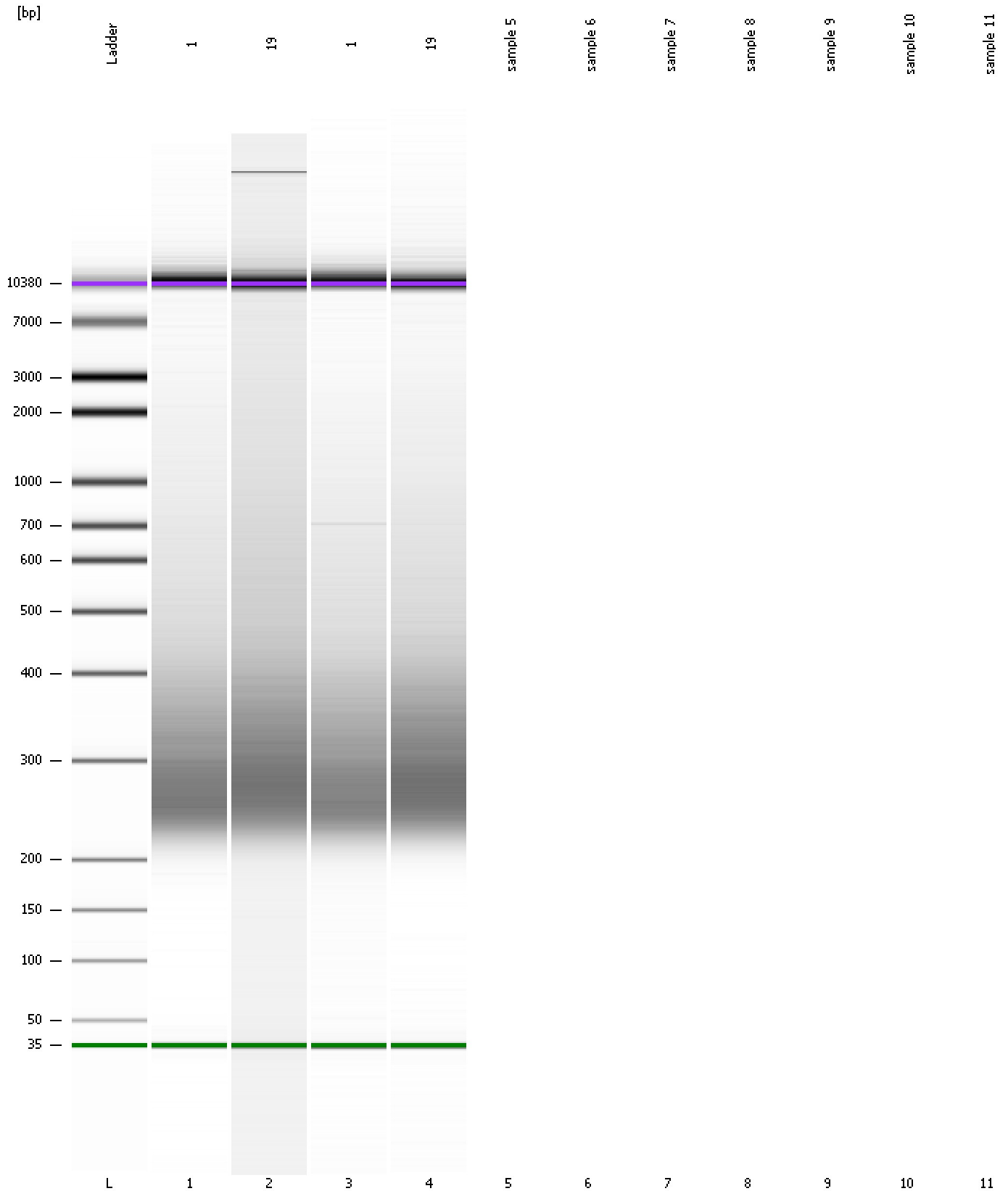
Region table for sample 4 : 19

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	369	1,000	936.7	91	38.9	1,300.61	6,190.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
Modified: 11/17/2014 10:49:28 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
Modified: 11/17/2014 10:49:28 AM

Invalid Samples

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

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\2014-11-17\2014-11-17_001.xad

Created: 11/17/2014 10:28:07 AM
 Modified: 11/17/2014 10:49:28 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		11/17/2014 10:49:25 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-17\2014-11-17_001.xad)		Instrument	Run		11/17/2014 10:28:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/17/2014 10:28:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/17/2014 10:28:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/17/2014 10:28:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/17/2014 10:28:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/17/2014 10:28:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/17/2014 10:28:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1