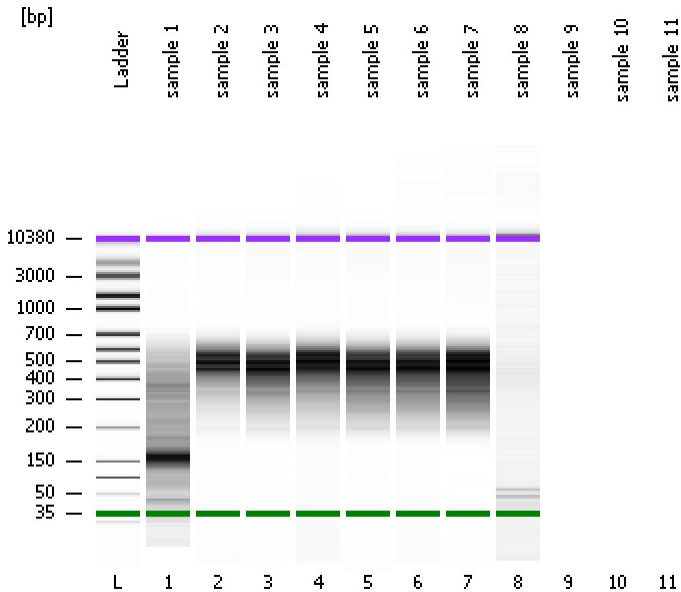


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
Modified: 7/11/2014 1:06:35 PM

Electrophoresis File Run Summary



Instrument Information:

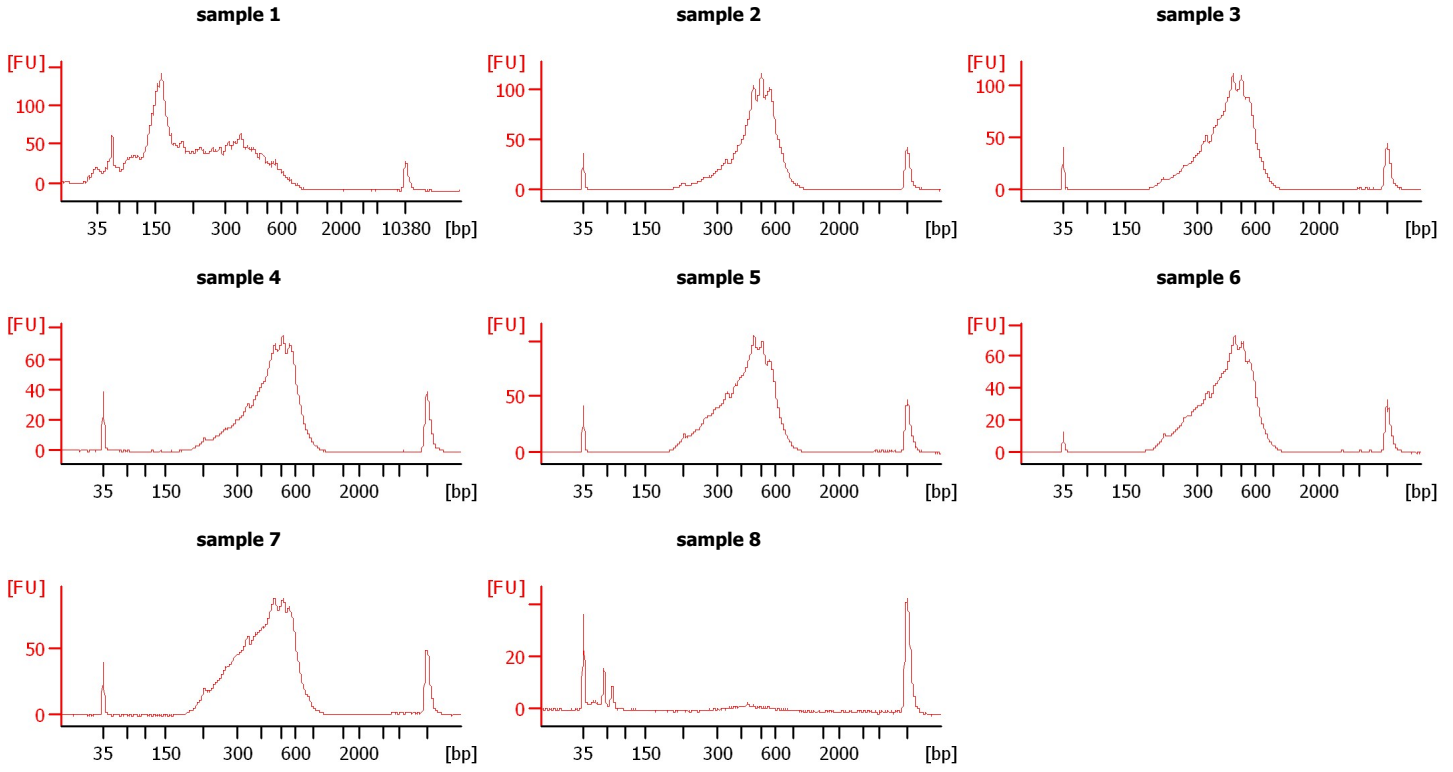
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<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:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
Modified: 7/11/2014 1:06:35 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

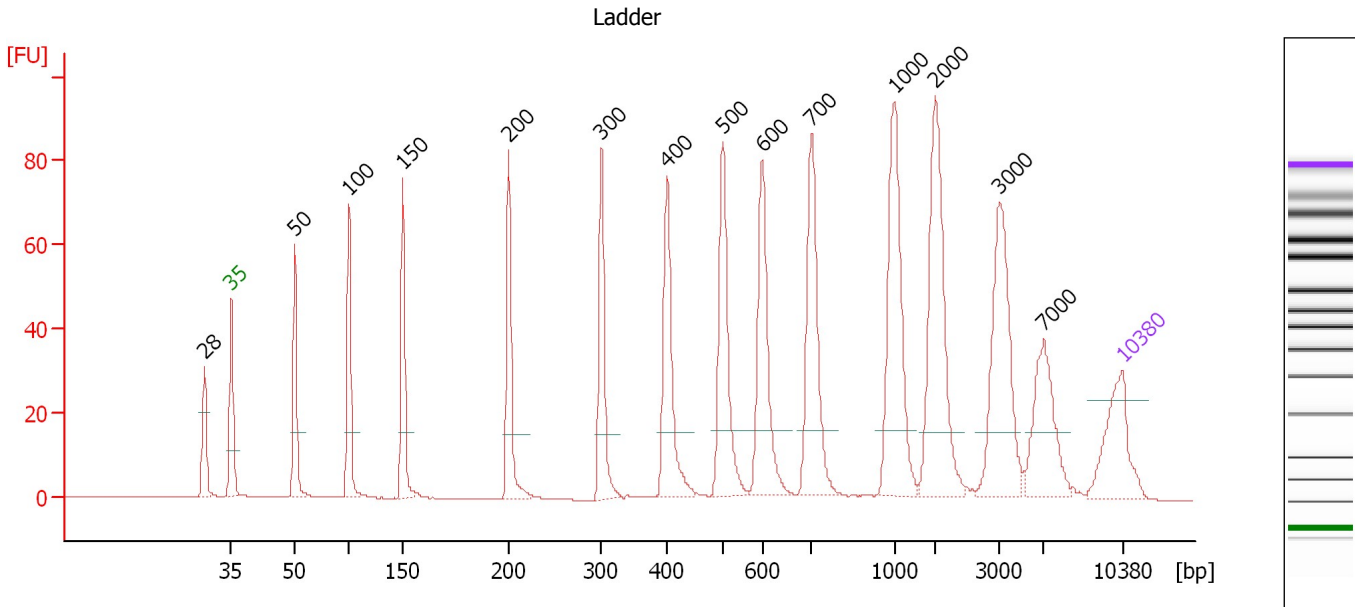
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

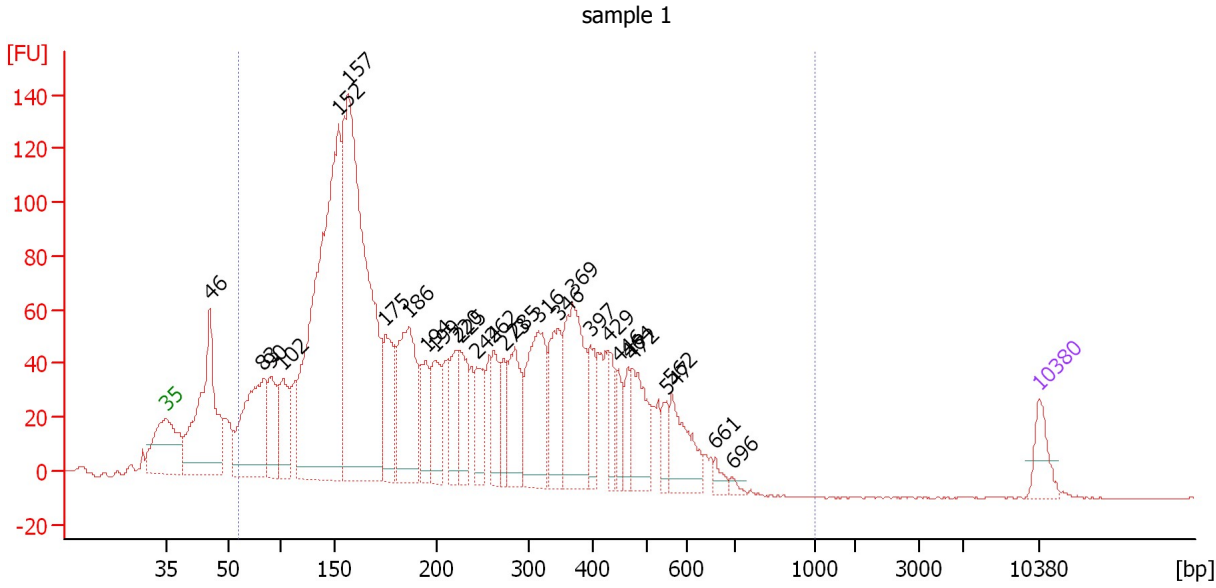
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	28	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	50	150.00	4,545.5	Ladder Peak
4	100	150.00	2,272.7	Ladder Peak
5	150	150.00	1,515.2	Ladder Peak
6	200	150.00	1,136.4	Ladder Peak
7	300	150.00	757.6	Ladder Peak
8	400	150.00	568.2	Ladder Peak
9	500	150.00	454.5	Ladder Peak
10	600	150.00	378.8	Ladder Peak
11	700	150.00	324.7	Ladder Peak
12	1,000	150.00	227.3	Ladder Peak
13	2,000	150.00	113.6	Ladder Peak
14	3,000	150.00	75.8	Ladder Peak
15	7,000	150.00	32.5	Ladder Peak
16	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 28 Corr. Area 1: 3,342.9
 Noise: 0.2

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	46	838.54	27,817.7	
3	83	641.65	11,758.6	
4	90	288.64	4,876.5	
5	102	239.68	3,570.9	
6	152	2,008.07	19,996.5	
7	157	2,124.17	20,527.0	
8	175	329.34	2,854.3	
9	186	570.15	4,640.5	
10	194	200.02	1,558.9	
11	199	229.34	1,748.1	
12	220	191.62	1,319.1	
13	225	195.70	1,319.1	
14	244	181.01	1,126.1	
15	262	163.60	947.1	
16	273	118.35	657.2	
17	285	268.18	1,424.9	
18	316	422.58	2,029.3	
19	346	248.36	1,086.9	
20	369	478.97	1,968.9	
21	397	126.17	481.8	
22	429	101.91	359.7	
23	446	81.13	275.7	
24	464	87.72	286.3	
25	472	214.66	689.0	
26	547	57.08	158.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...**... Peak table for sample 1 : sample 1**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	562	203.69	548.8	
28	661	29.36	67.3	
29	696	15.60	33.9	
30	10,380	75.00	10.9	Upper Marker

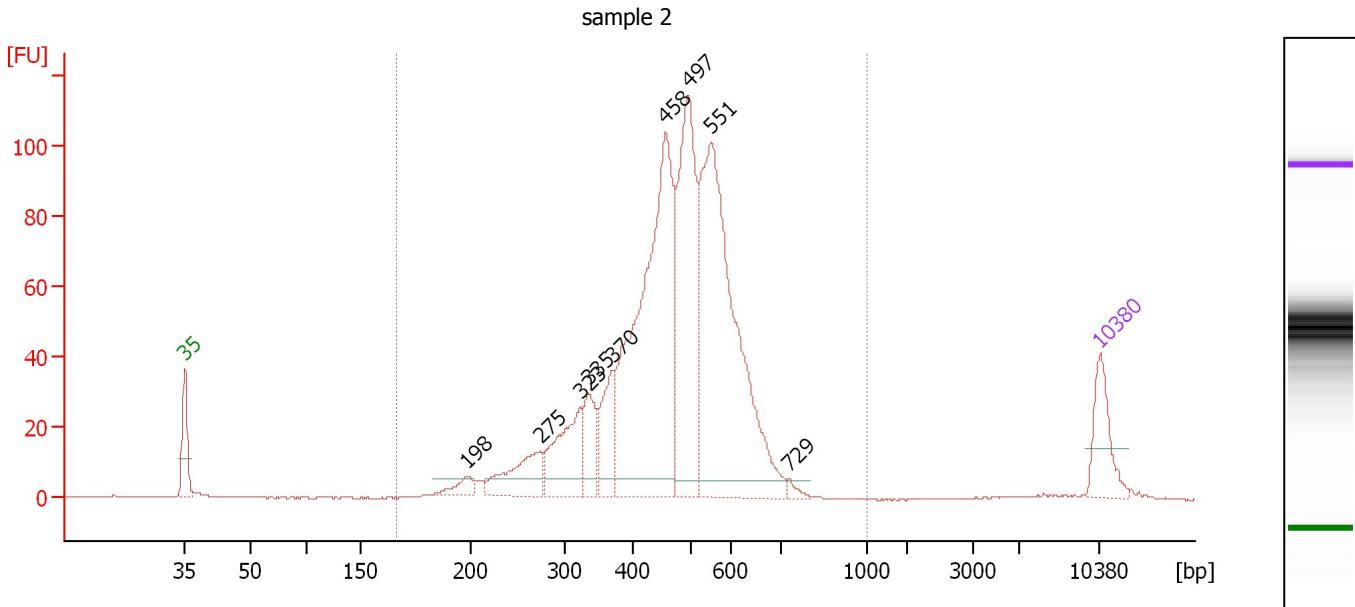
Region table for sample 1 : sample 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Co Corr. for Area	% of Total	Size distribution in CV [%]
60	1,000	255	90,283.8	10,313.27	3,342.9	92	53.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 9 Corr. Area 1: 1,284.9
 Noise: 0.1

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	198	35.13	268.4	
3	275	130.34	719.0	
4	323	170.53	800.6	
5	335	95.67	432.7	
6	370	109.37	447.9	
7	458	810.91	2,682.1	
8	497	462.41	1,409.6	
9	551	777.08	2,136.6	
10	729	10.83	22.5	
11	10,380	75.00	10.9	Upper Marker

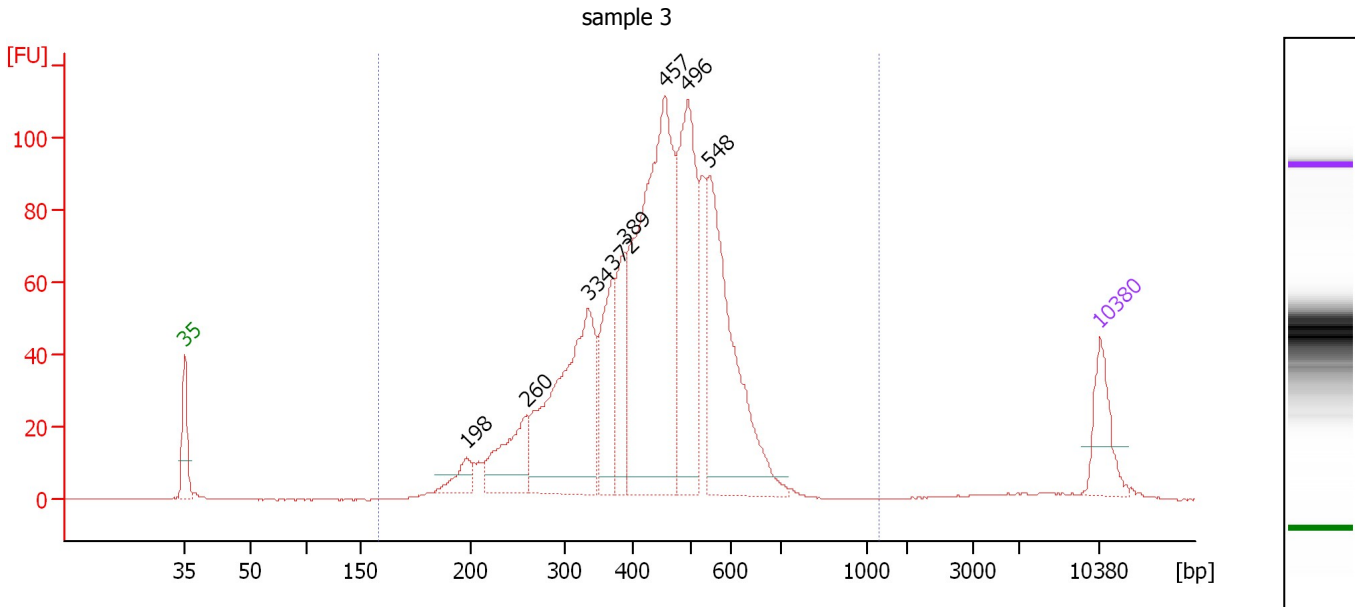
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
166	1,000	471	9,643.7	2,706.85	1,284.9	99	23.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 8 Corr. Area 1: 1,555.3
 Noise: 0.1

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	198	53.95	411.8	
3	260	166.68	971.0	
4	334	508.58	2,304.2	
5	372	179.64	732.0	
6	389	135.88	529.6	
7	457	810.34	2,688.1	
8	496	399.42	1,219.1	
9	548	466.34	1,288.9	
10	10,380	75.00	10.9	Upper Marker

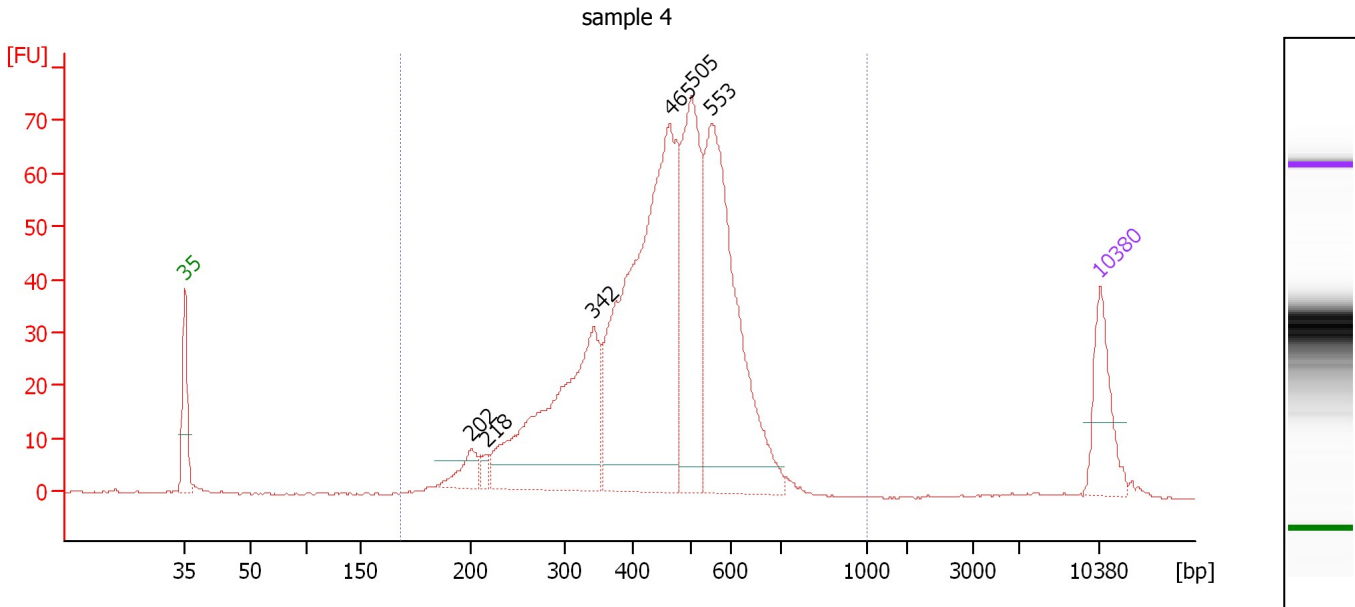
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
158	1,317	437	11,889.1	3,045.50	1,555.3	98	26.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 6 Corr. Area 1: 1,043.3
 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	46.08	345.9	
3	218	14.56	101.3	
4	342	423.58	1,873.9	
5	465	744.17	2,422.6	
6	505	302.34	906.7	
7	553	488.98	1,338.7	
8	10,380	75.00	10.9	Upper Marker

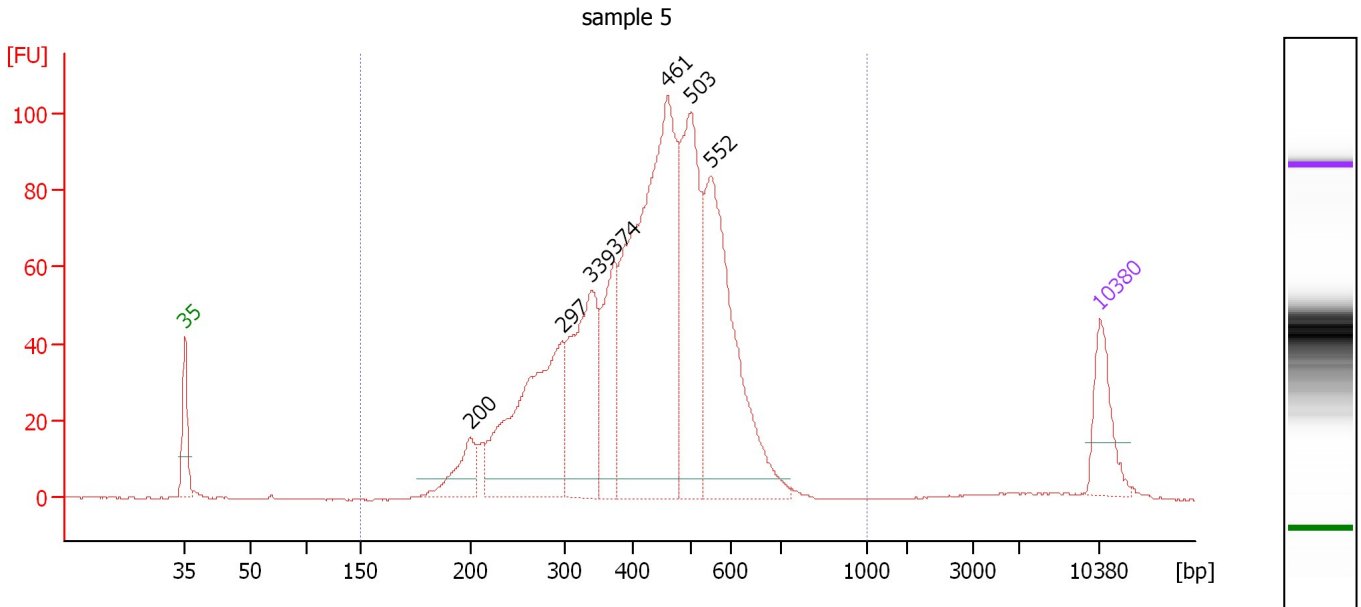
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
168	1,000	452	8,320.7	2,189.78	1,043.3	98	26.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 7 Corr. Area 1: 1,526.9
 Noise: 0.2

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	200	92.70	700.6	
3	297	447.85	2,287.9	
4	339	304.99	1,362.1	
5	374	171.74	695.5	
6	461	827.48	2,718.5	
7	503	340.30	1,025.1	
8	552	467.73	1,284.3	
9	10,380	75.00	10.9	Upper Marker

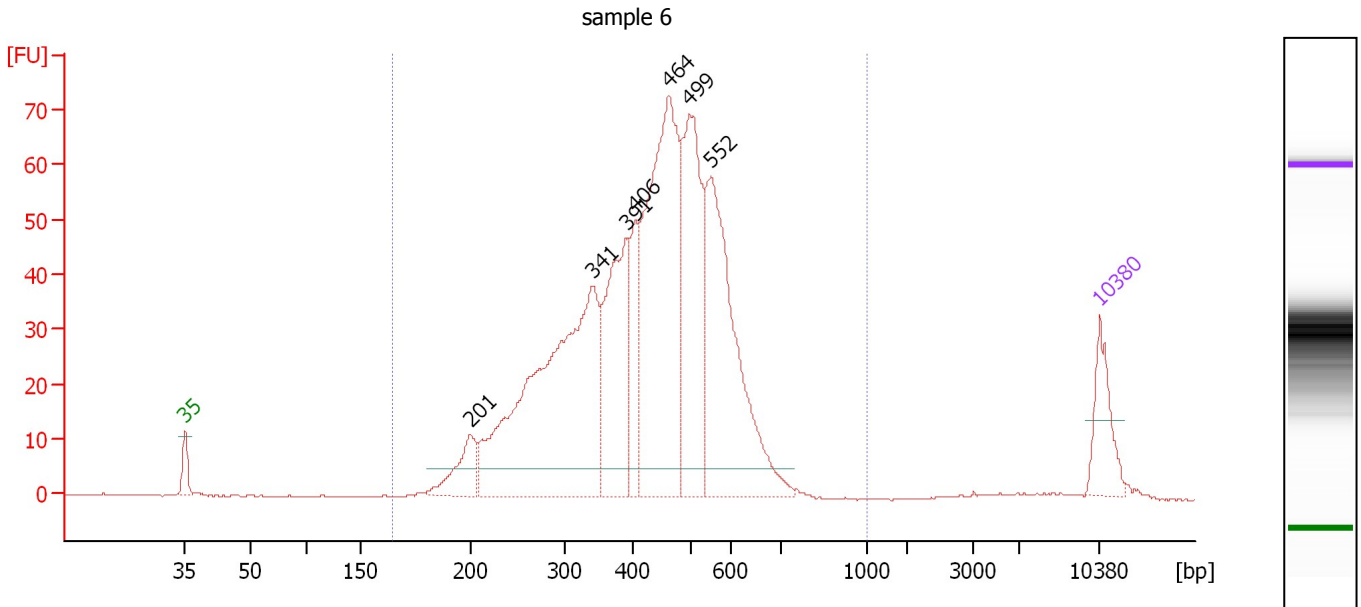
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
150	1,000	429	11,132.7	2,769.90	1,526.9	99	27.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 7 Corr. Area 1: 1,088.0
 Noise: 0.2

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	201	106.94	806.4	
3	341	843.36	3,748.1	
4	391	326.33	1,265.7	
5	406	125.13	467.5	
6	464	668.46	2,183.8	
7	499	394.54	1,198.1	
8	552	488.05	1,340.7	
9	10,380	75.00	10.9	Upper Marker

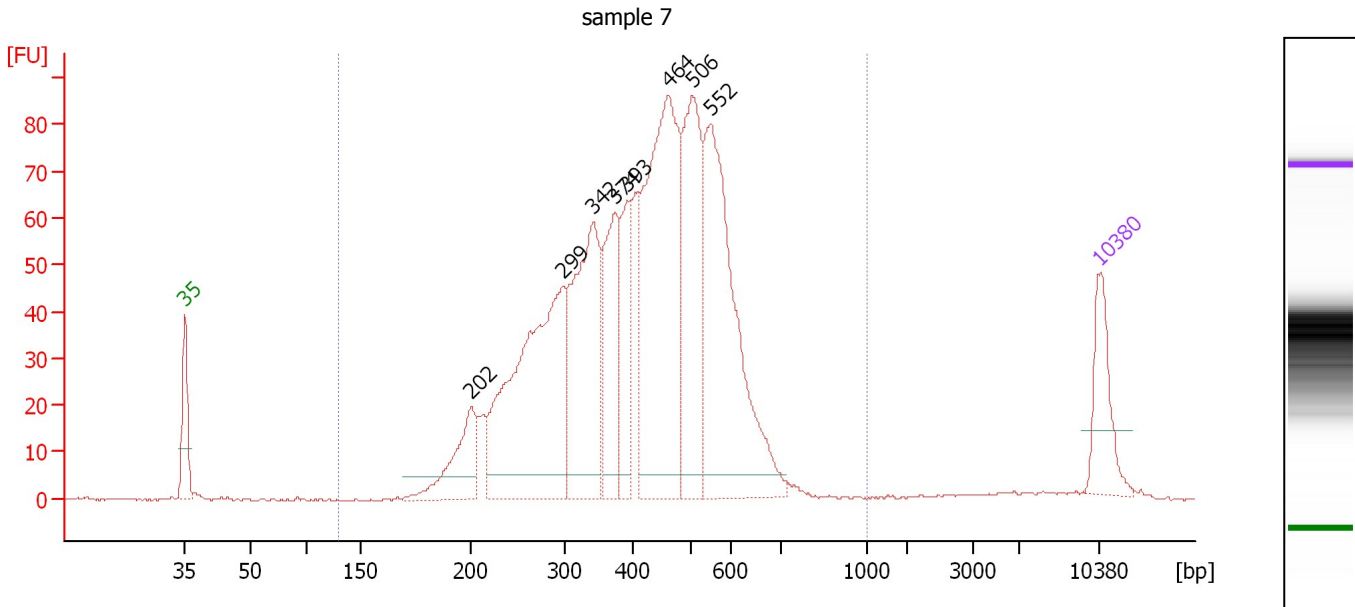
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
164	1,000	429	12,372.3	3,079.46	1,088.0	99	27.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 8 Corr. Area 1: 1,513.4
 Noise: 0.2

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	202	136.55	1,026.3	
3	299	546.10	2,771.2	
4	342	343.44	1,521.0	
5	374	184.58	748.2	
6	393	120.43	464.3	
7	464	540.77	1,767.0	
8	506	292.10	874.8	
9	552	456.74	1,253.3	
10	10,380	75.00	10.9	Upper Marker

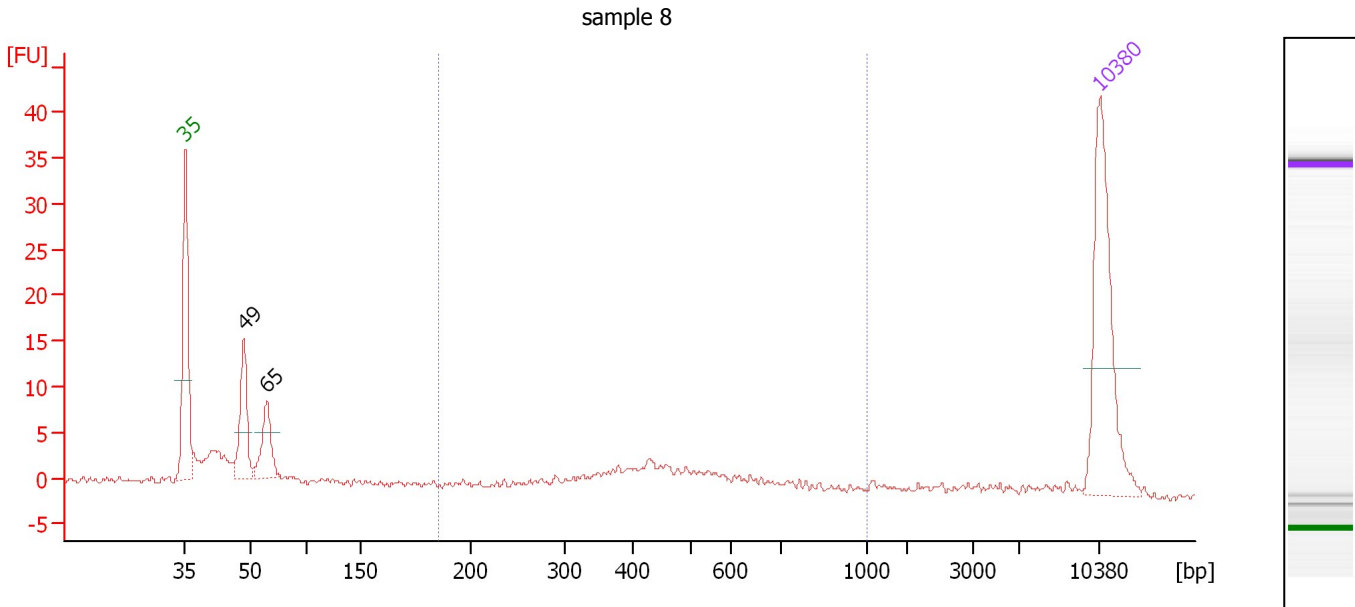
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
129	1,000	419	11,679.8	2,806.07	1,513.4	99	29.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 2 Corr. Area 1: 27.0
 Noise: 0.3

Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	49	52.96	1,654.4	
3	65	36.06	838.3	
4	10,380	75.00	10.9	Upper Marker

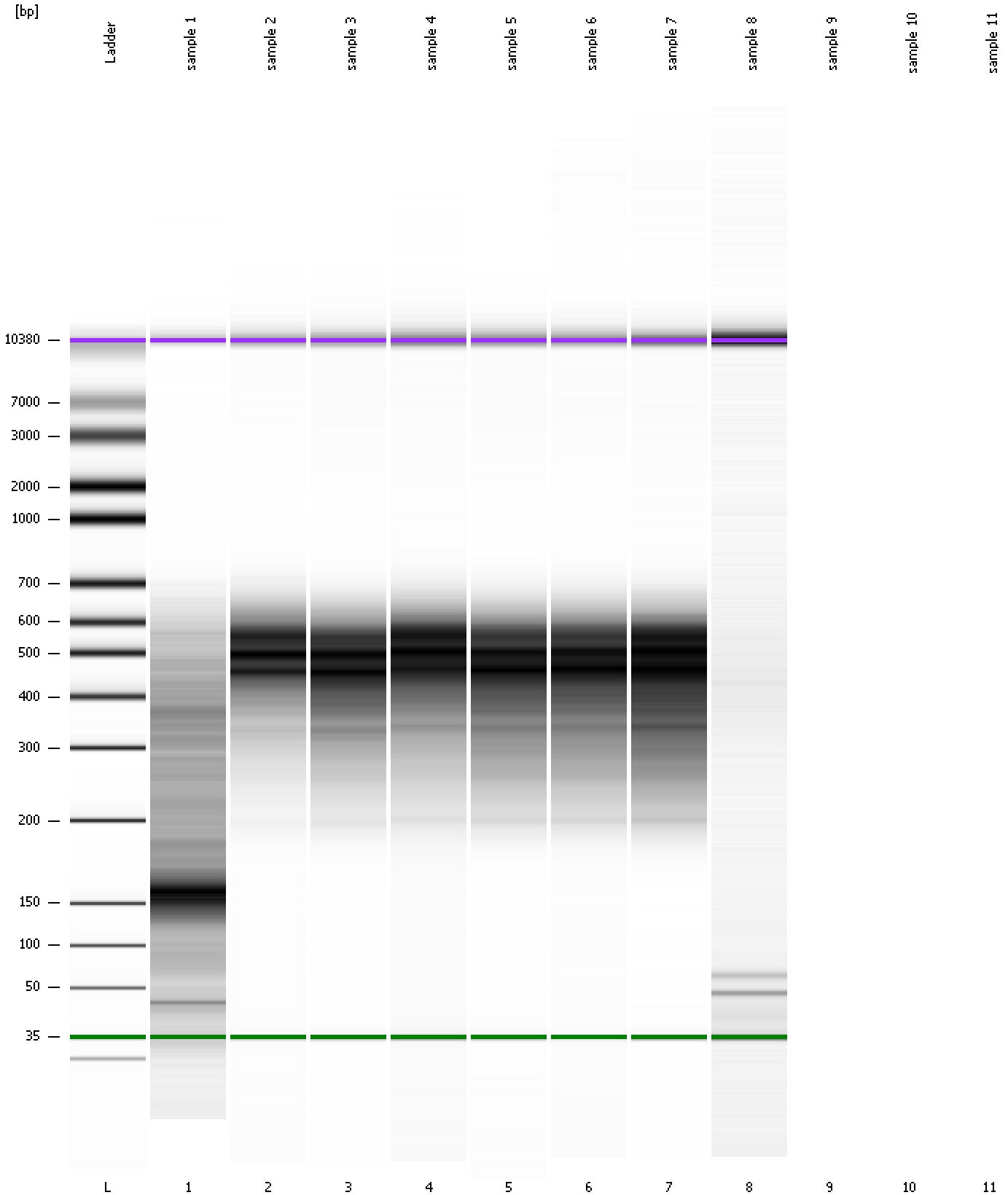
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
186	1,000	474	172.6	49.77	27.0	33	25.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
Modified: 7/11/2014 1:06:35 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
Modified: 7/11/2014 1:06:35 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:\... bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad

Created: 7/11/2014 12:29:42 PM
 Modified: 7/11/2014 1:06:35 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		7/11/2014 1:02:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-11\2014-07-11_003.xad)		Instrument	Run		7/11/2014 12:29:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/11/2014 12:29:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/11/2014 12:29:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/11/2014 12:29:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/11/2014 12:29:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/11/2014 12:29:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/11/2014 12:29:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1