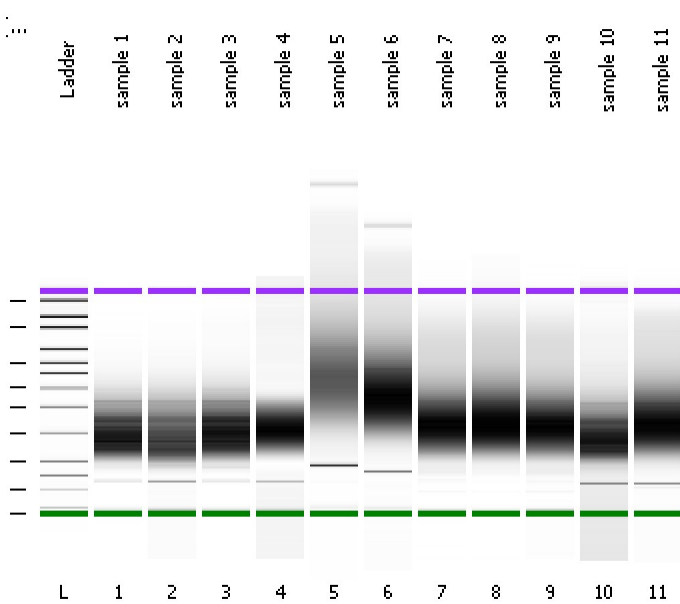


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
Modified: 4/14/2016 1:10:23 PM

### Electrophoresis File Run Summary



#### Instrument Information:

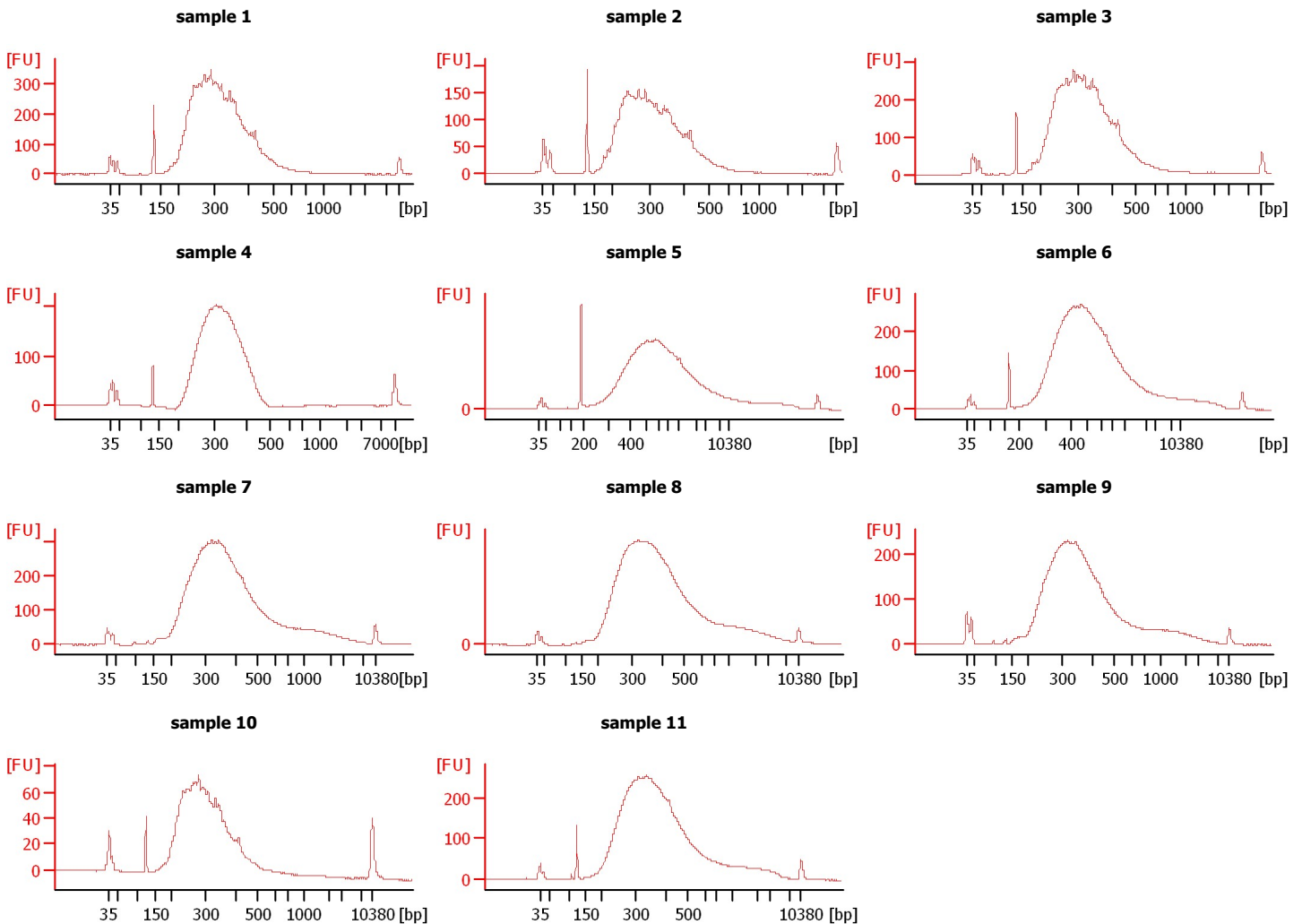
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 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\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
Modified: 4/14/2016 1:10:23 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

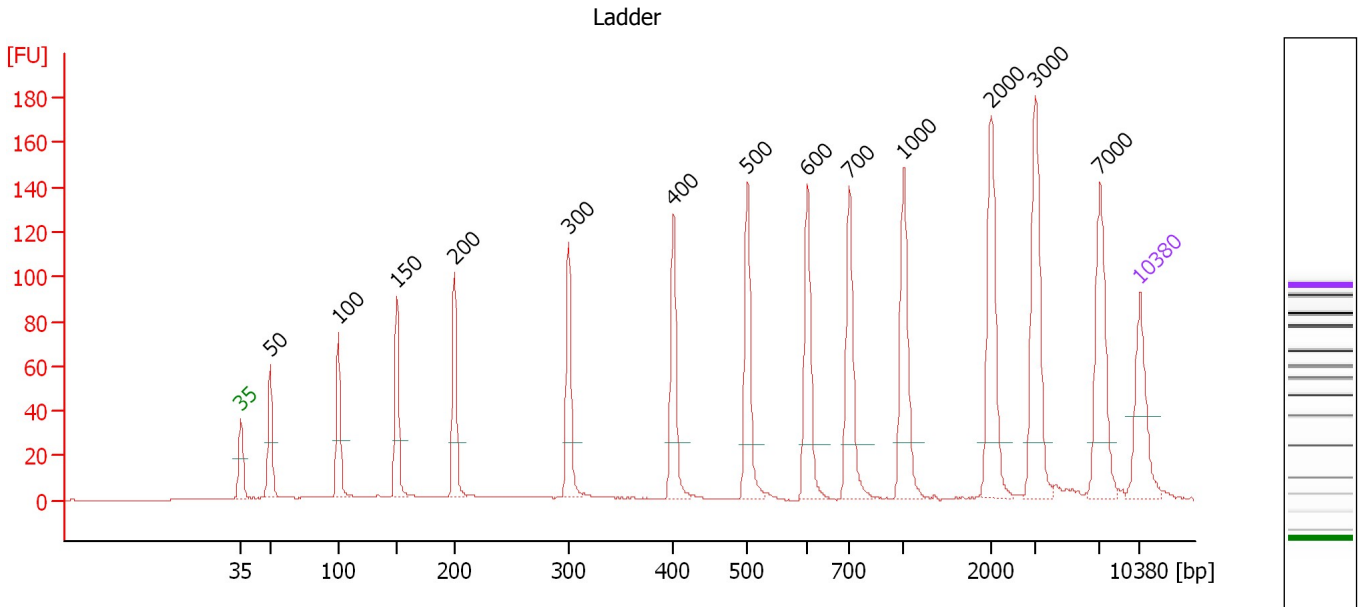
**Ladder**

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\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

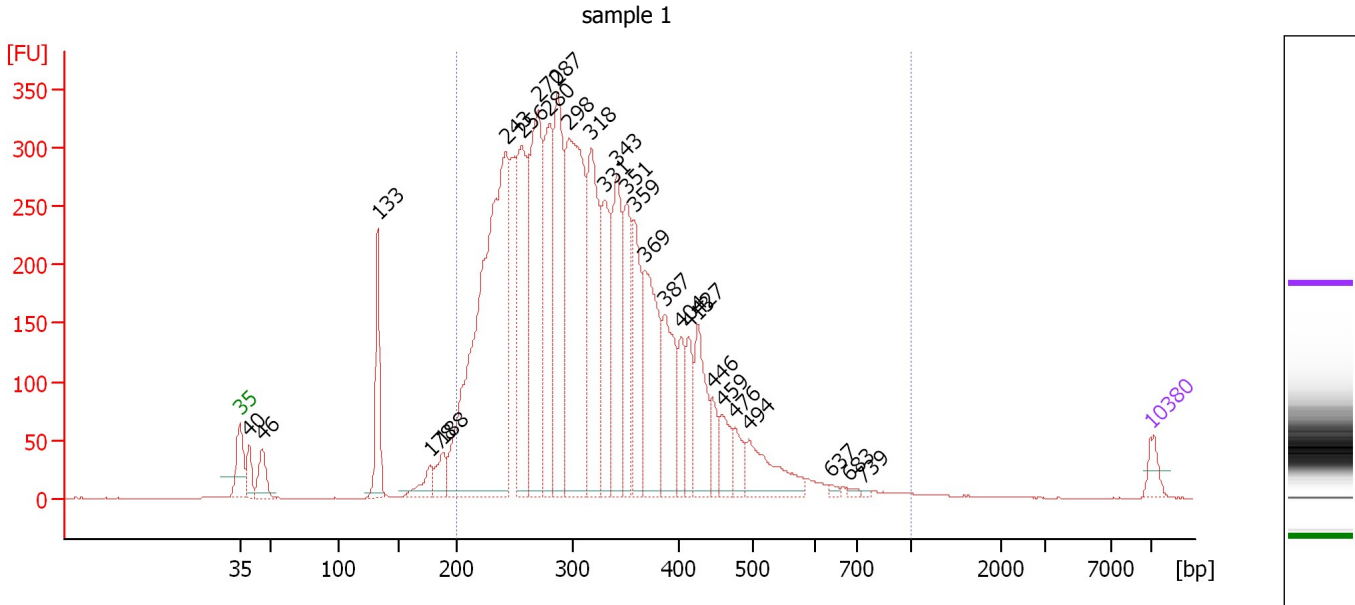
**Peak table for Ladder**

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.60
4	150	150.00	1,515.2	Ladder Peak	55.12
5	200	150.00	1,136.4	Ladder Peak	59.65
6	300	150.00	757.6	Ladder Peak	68.53
7	400	150.00	568.2	Ladder Peak	76.67
8	500	150.00	454.5	Ladder Peak	82.44
9	600	150.00	378.8	Ladder Peak	87.13
10	700	150.00	324.7	Ladder Peak	90.37
11	1,000	150.00	227.3	Ladder Peak	94.61
12	2,000	150.00	113.6	Ladder Peak	101.42
13	3,000	150.00	75.8	Ladder Peak	104.82
14	7,000	150.00	32.5	Ladder Peak	109.89
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 28                      Corr. Area 1: 7,278.3  
 Noise: 0.3

**Peak table for sample 1 : sample 1**


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	40	187.64	7,184.2		43.70
3	46	258.04	8,444.2		44.72
4	133	594.85	6,763.2		53.61
5	178	168.86	1,440.5		57.62
6	188	187.88	1,510.3		58.61
7	243	4,002.87	24,994.0		63.44
8	256	1,332.23	7,869.9		64.67
9	270	1,605.05	8,996.5		65.90
10	280	1,044.14	5,640.9		66.80
11	287	1,290.99	6,806.6		67.41
12	298	2,209.24	11,250.9		68.31
13	318	1,205.50	5,745.1		69.99
14	331	813.82	3,730.8		71.02
15	343	859.64	3,801.9		72.00
16	351	609.87	2,631.5		72.70
17	359	632.10	2,670.1		73.31
18	369	951.52	3,909.5		74.13
19	387	613.91	2,401.2		75.64
20	404	256.19	962.0		76.87
21	413	282.37	1,034.8		77.45
22	427	486.95	1,728.2		78.23
23	446	178.00	604.6		79.33
24	459	206.43	681.6		80.07
25	476	172.25	548.4		81.05

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad


Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : sample 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	494	410.11	1,257.0		82.12
27	637	21.59	51.3		88.34
28	683	20.14	44.7		89.82
29	739	11.82	24.2		90.92
30	 10,380	75.00	10.9	Upper Marker	113.00

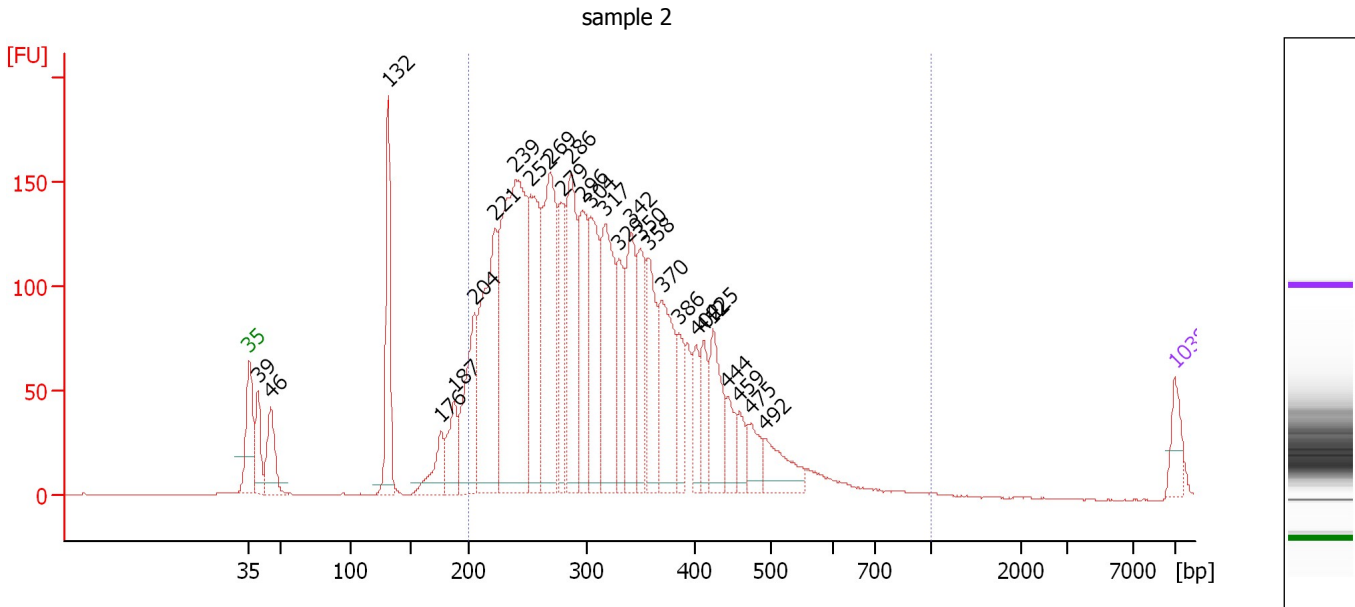
**Region table for sample 1 : sample 1**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	323	7,278.3	102,333.4	 20,169.29	94	27.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 28                      Corr. Area 1: 3,478.6  
 Noise: 0.2

**Peak table for sample 2 : sample 2**


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	39	208.26	8,041.3		43.65
3	46	267.55	8,889.6		44.61
4	132	515.67	5,921.2		53.49
5	176	176.64	1,519.9		57.48
6	187	218.10	1,765.0		58.49
7	204	494.99	3,672.0		60.03
8	221	882.66	6,037.8		61.56
9	239	1,638.09	10,375.7		63.13
10	252	701.93	4,221.6		64.26
11	269	828.41	4,670.8		65.76
12	279	362.23	1,969.1		66.64
13	286	602.31	3,186.0		67.33
14	296	477.06	2,438.5		68.22
15	304	473.60	2,360.2		68.86
16	317	614.84	2,934.9		69.95
17	329	290.79	1,337.9		70.92
18	342	412.23	1,827.9		71.93
19	350	305.70	1,324.7		72.57
20	358	361.58	1,532.1		73.22
21	370	435.30	1,782.7		74.23
22	386	171.52	673.5		75.52
23	402	142.54	536.7		76.81
24	412	151.68	557.6		77.37
25	425	272.69	972.7		78.10

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	444	118.22	403.8		79.19
27	459	81.04	267.5		80.08
28	475	108.81	347.0		81.01
29	492	181.06	557.7		81.97
30	 10,380	75.00	10.9	Upper Marker	113.00

#### Region table for sample 2 : sample 2

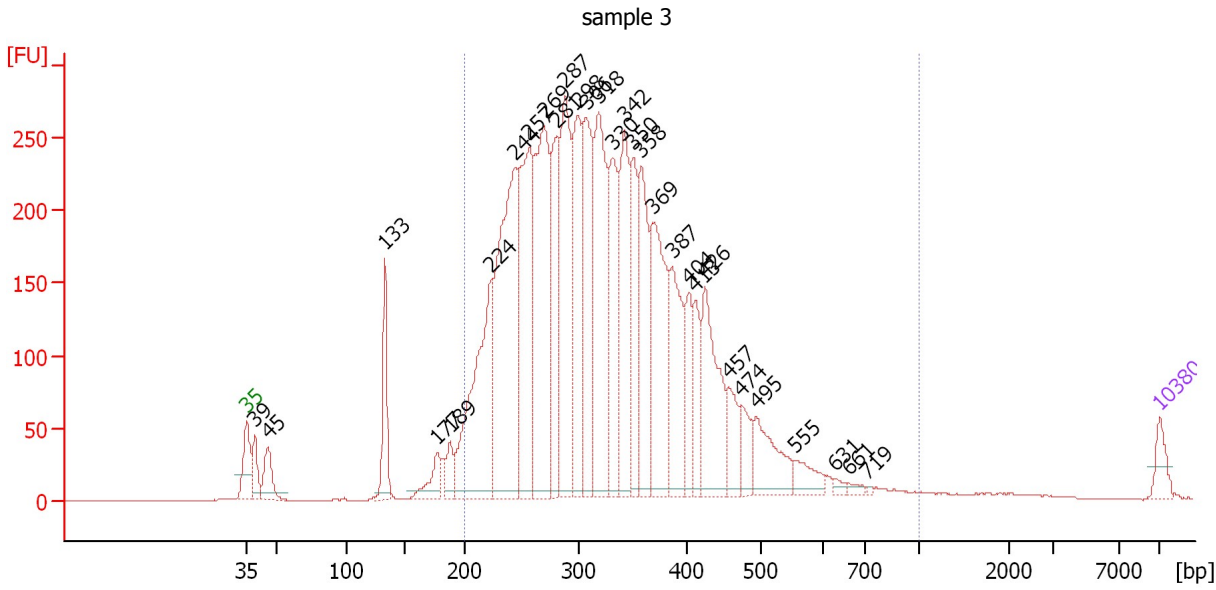
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	313	3,478.6	51,735.0	 9,950.74	89	24.4



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 30                      Corr. Area 1: 6,287.6  
 Noise: 0.3

**Peak table for sample 3 : sample 3**


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	39	179.57	6,971.1		43.61
3	45	220.33	7,341.0		44.59
4	133	411.17	4,682.0		53.59
5	177	175.57	1,500.1		57.60
6	189	131.68	1,057.8		58.62
7	224	1,221.56	8,268.4		61.77
8	244	1,729.66	10,756.7		63.53
9	257	1,188.44	7,019.6		64.67
10	269	1,415.97	7,963.5		65.82
11	281	670.66	3,617.3		66.84
12	287	1,053.74	5,556.2		67.41
13	298	800.57	4,065.0		68.39
14	306	866.03	4,291.1		69.00
15	318	1,118.93	5,333.9		69.99
16	330	659.60	3,024.7		71.01
17	342	735.17	3,257.4		71.95
18	350	494.84	2,142.2		72.60
19	358	652.89	2,762.9		73.26
20	369	866.50	3,557.0		74.16
21	387	558.74	2,186.5		75.63
22	404	260.90	978.7		76.90
23	413	246.85	905.4		77.43
24	426	633.78	2,254.9		78.16
25	457	212.85	705.6		79.96

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad


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 Modified: 4/14/2016 1:10:23 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	474	160.78	513.9		80.94
27	495	328.54	1,006.5		82.13
28	555	121.19	330.7		85.03
29	631	23.70	56.9		88.14
30	661	22.64	51.9		89.12
31	719	7.25	15.3		90.63
32	 10,380	75.00	10.9	Upper Marker	113.00

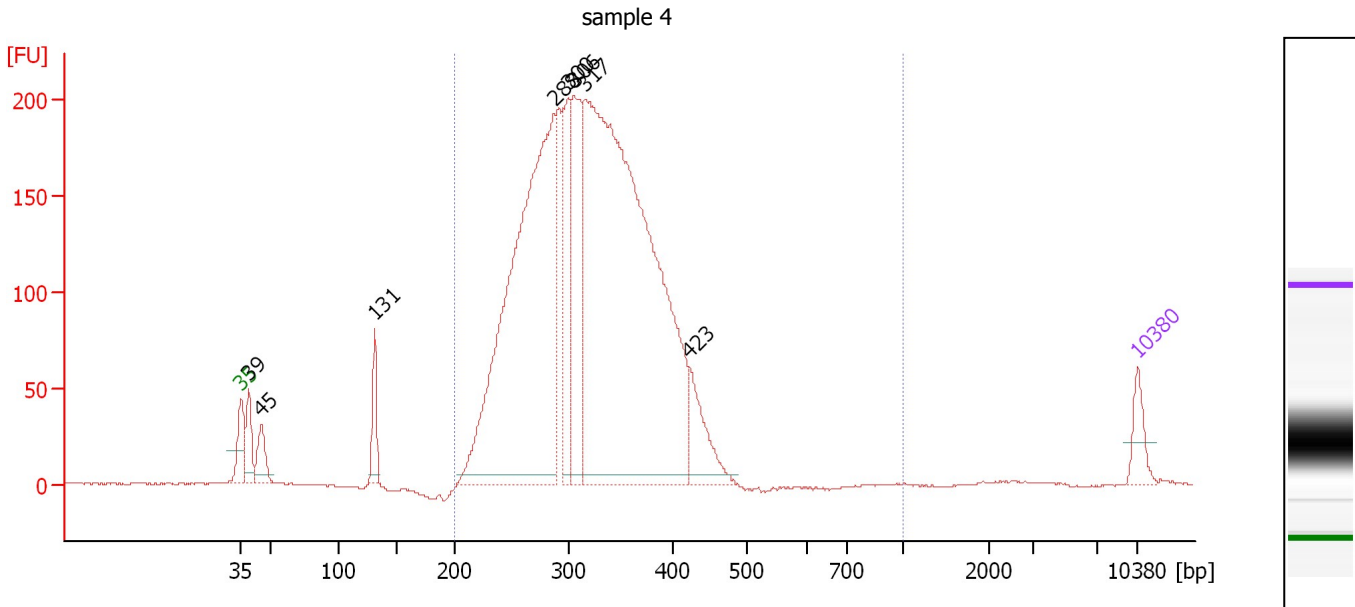
#### Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/ $\mu$ l]	% of Total	Size distribution in CV [%]
200	1,000	332	6,287.6	80,255.9	 16,200.10	93	27.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 8                      Corr. Area 1: 3,621.5  
 Noise: 0.3

**Peak table for sample 4 : sample 4**

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	39	172.57	6,687.0		43.62
3	45	154.75	5,165.8		44.58
4	131	161.48	1,861.1		53.45
5	288	2,664.66	14,039.7		67.43
6	300	508.80	2,567.7		68.55
7	306	618.47	3,058.6		69.05
8	317	3,916.43	18,742.8		69.88
9	423	239.16	856.6		78.00
10	10,380	75.00	10.9	Upper Marker	113.00

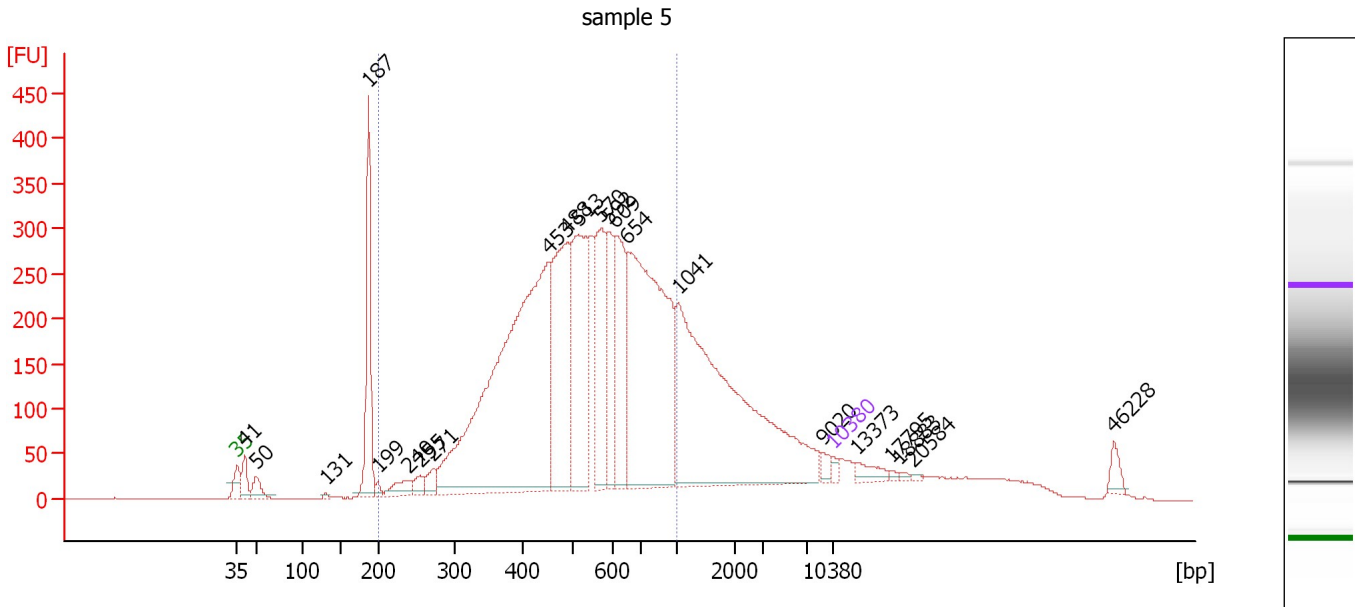
**Region table for sample 4 : sample 4**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	321	3,621.5	39,231.4	8,028.99	96	16.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5**

Number of peaks found: 22                      Corr. Area 1: 6,109.2  
 Noise: 0.3

**Peak table for sample 5 : sample 5**

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	41	432.73	16,084.2		43.88
3	50	343.31	10,441.0		45.26
4	131	39.21	453.5		53.40
5	187	2,323.04	18,814.8		58.48
6	199	104.49	796.2		59.54
7	240	332.53	2,095.5		63.24
8	255	194.02	1,154.9		64.50
9	271	277.26	1,547.5		66.00
10	453	9,867.65	33,012.8		79.72
11	488	3,227.90	10,029.6		81.73
12	513	2,946.70	8,705.9		83.04
13	570	1,927.79	5,121.9		85.74
14	592	1,213.10	3,106.6		86.74
15	609	1,785.03	4,439.7		87.43
16	654	5,975.43	13,850.0		88.87
17	1,041	6,554.71	9,536.9		94.89
18	9,020	105.68	17.8		111.75
19	10,380	75.00	10.9	Upper Marker	113.00
20	13,373	0.00	0.0		115.76
21	17,795	0.00	0.0		119.83
22	18,883	0.00	0.0		120.83
23	20,584	0.00	0.0		122.40
24	46,228	0.00	0.0		146.03

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**

... Region table for sample 5 :

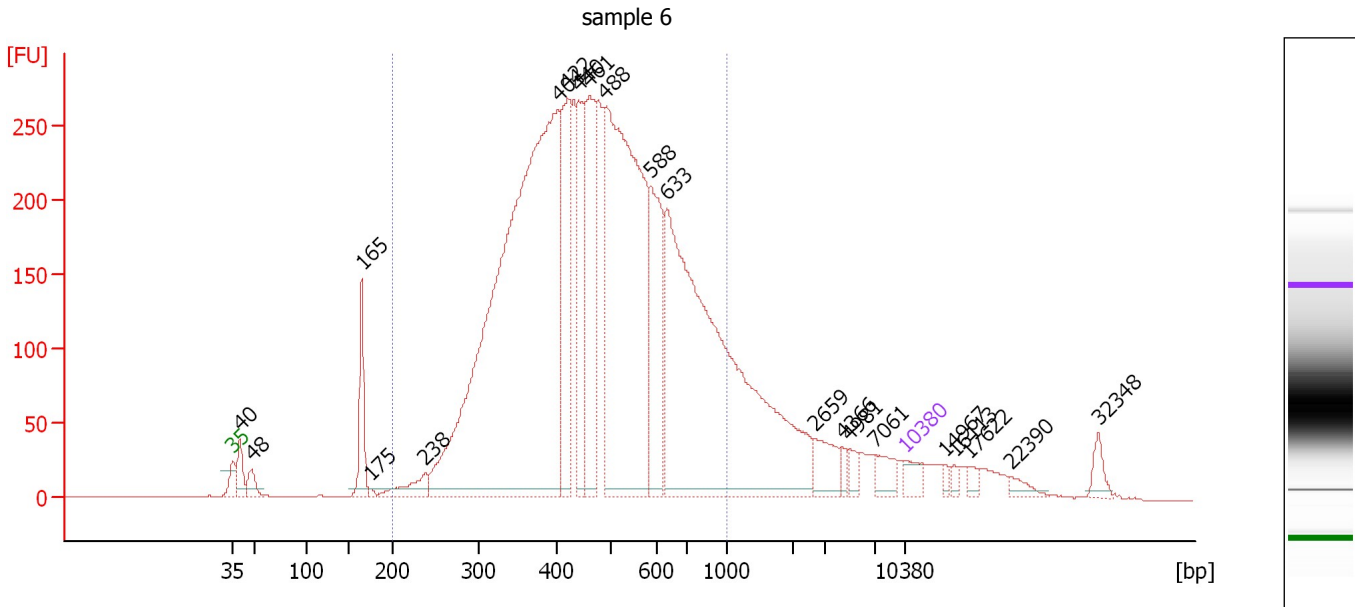
sample 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	545	6,109.2	99,090.7	■ 31,060.04	69	31.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

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 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6**

Number of peaks found: 21                      Corr. Area 1: 6,180.2  
 Noise: 0.2

**Peak table for sample 6 : sample 6**

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	40	174.34	6,645.8		43.72
3	48	115.15	3,651.2		44.95
4	165	382.06	3,514.4		56.46
5	175	18.25	157.9		57.40
6	238	162.20	1,033.1		63.02
7	404	5,461.12	20,469.3		76.92
8	422	823.30	2,959.0		77.92
9	440	570.38	1,964.6		78.97
10	461	930.79	3,058.7		80.20
11	488	2,954.96	9,173.6		81.75
12	588	733.09	1,887.7		86.59
13	633	3,464.58	8,292.9		88.20
14	2,659	162.27	92.5		103.66
15	4,366	37.79	13.1		106.55
16	4,981	46.60	14.2		107.33
17	7,061	98.45	21.1		109.94
18	10,380	75.00	10.9	Upper Marker	113.00
19	14,967	0.00	0.0		117.23
20	16,113	0.00	0.0		118.28
21	17,622	0.00	0.0		119.67
22	22,390	0.00	0.0		124.06
23	32,348	0.00	0.0		133.24

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**

... Region table for sample 6 :

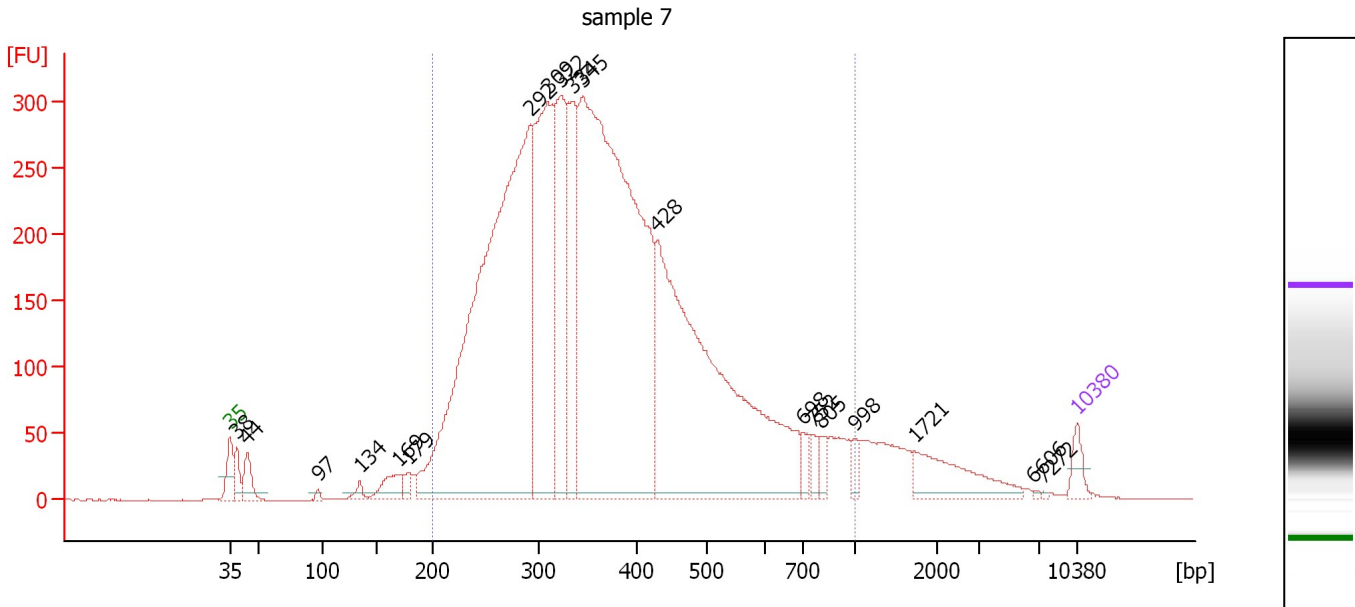
sample 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	491	6,180.2	53,137.9	15,238.35	83	31.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7**

Number of peaks found: 19                      Corr. Area 1: 7,672.0  
 Noise: 0.3

**Peak table for sample 7 : sample 7**

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	38	139.28	5,485.3		43.53
3	44	201.34	6,892.6		44.41
4	97	22.35	349.4		50.27
5	134	55.57	626.8		53.70
6	169	177.47	1,587.6		56.88
7	179	62.58	530.8		57.71
8	292	5,145.04	26,718.9		67.80
9	309	1,768.78	8,676.7		69.26
10	322	1,086.35	5,114.0		70.31
11	334	785.39	3,565.3		71.28
12	345	5,251.65	23,090.8		72.16
13	428	3,351.63	11,865.5		78.29
14	698	79.55	172.6		90.31
15	752	74.74	150.6		91.11
16	805	70.95	133.6		91.85
17	998	49.05	74.4		94.59
18	1,721	326.47	287.3		99.52
19	6,606	5.84	1.3		109.39
20	7,272	4.72	1.0		110.14
21	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 7 : sample 7**

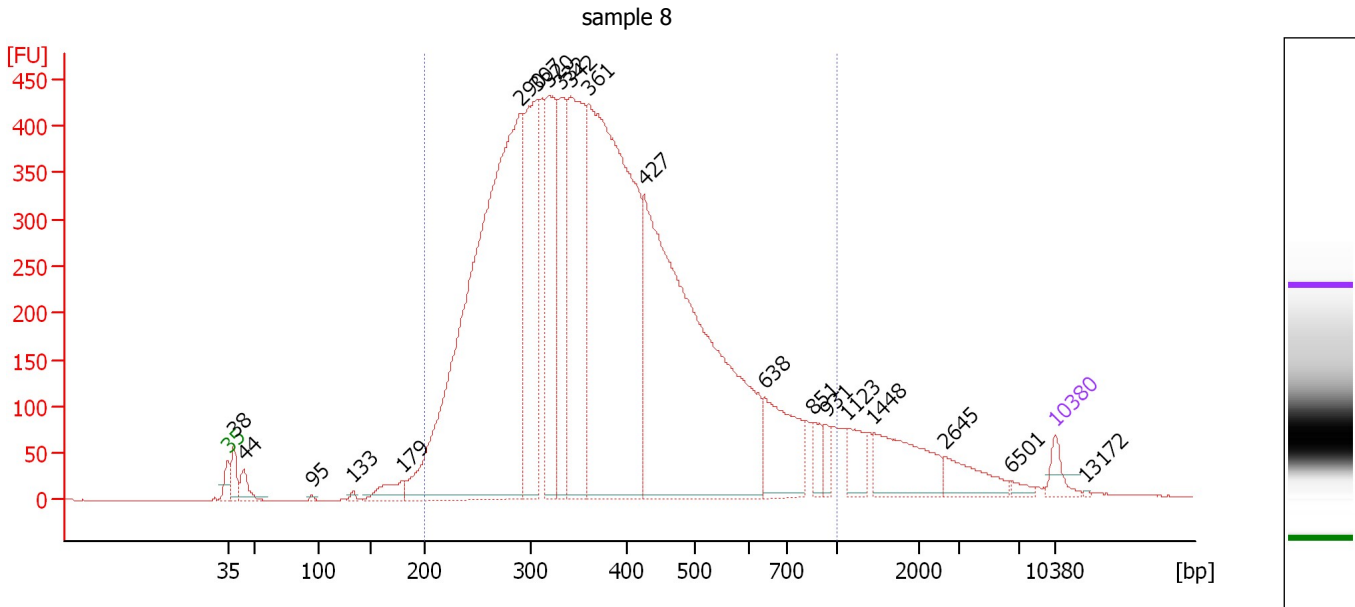
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	382	7,672.0	80,018.0	17,743.76	92	35.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 8**

Number of peaks found: 20                      Corr. Area 1: 11,762.0  
 Noise: 0.2

**Peak table for sample 8 : sample 8**

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	38	175.13	6,935.0		43.50
3	44	140.08	4,868.3		44.31
4	95	12.58	200.3		50.09
5	133	20.56	234.7		53.56
6	179	155.07	1,315.5		57.71
7	290	5,534.98	28,871.3		67.69
8	307	1,398.82	6,895.9		69.13
9	320	1,194.08	5,661.8		70.12
10	332	831.80	3,792.7		71.16
11	342	1,615.80	7,152.4		71.97
12	361	3,964.27	16,631.8		73.51
13	427	3,950.81	14,034.0		78.20
14	638	529.22	1,257.2		88.36
15	851	112.71	200.6		92.51
16	931	64.93	105.6		93.64
17	1,123	169.96	229.3		95.44
18	1,448	421.52	441.2		97.66
19	2,645	179.36	102.7		103.61
20	6,501	29.56	6.9		109.25
21	10,380	75.00	10.9	Upper Marker	113.00
22	13,172	0.00	0.0		115.57

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**

... Region table for sample 8 :

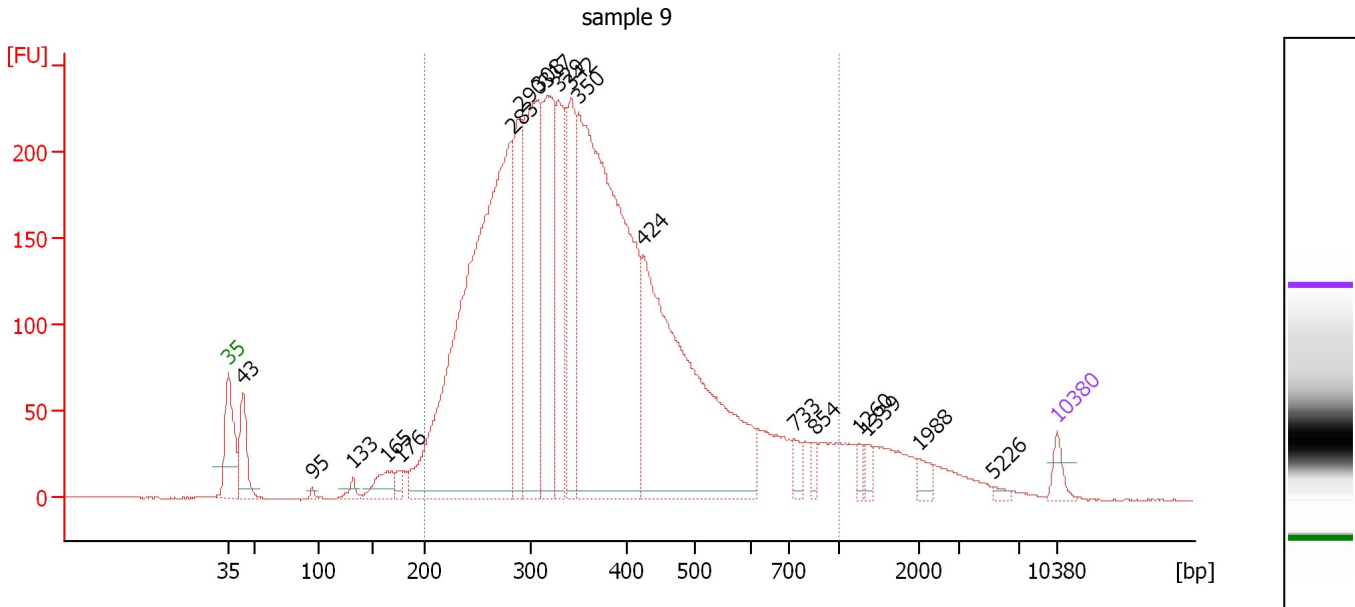
sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	392	11,762.0	86,805.4	■ 19,618.47	92	35.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 9**

Number of peaks found: 19                      Corr. Area 1: 5,738.0  
 Noise: 0.2

**Peak table for sample 9 : sample 9**

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	43	471.80	16,514.8		44.26
3	95	28.60	453.8		50.12
4	133	68.51	783.3		53.54
5	165	217.05	1,994.8		56.47
6	176	76.38	656.4		57.50
7	283	5,160.04	27,642.1		67.01
8	290	983.06	5,137.3		67.64
9	308	1,815.45	8,935.6		69.17
10	317	1,349.29	6,444.2		69.94
11	329	896.10	4,128.5		70.88
12	342	913.70	4,046.1		71.96
13	350	4,546.98	19,689.4		72.59
14	424	3,038.44	10,862.9		78.05
15	733	94.54	195.4		90.84
16	854	62.69	111.2		92.55
17	1,260	49.37	59.4		96.38
18	1,339	66.04	74.7		96.92
19	1,988	71.77	54.7		101.33
20	5,226	23.12	6.7		107.64
21	10,380	75.00	10.9	Upper Marker	113.00

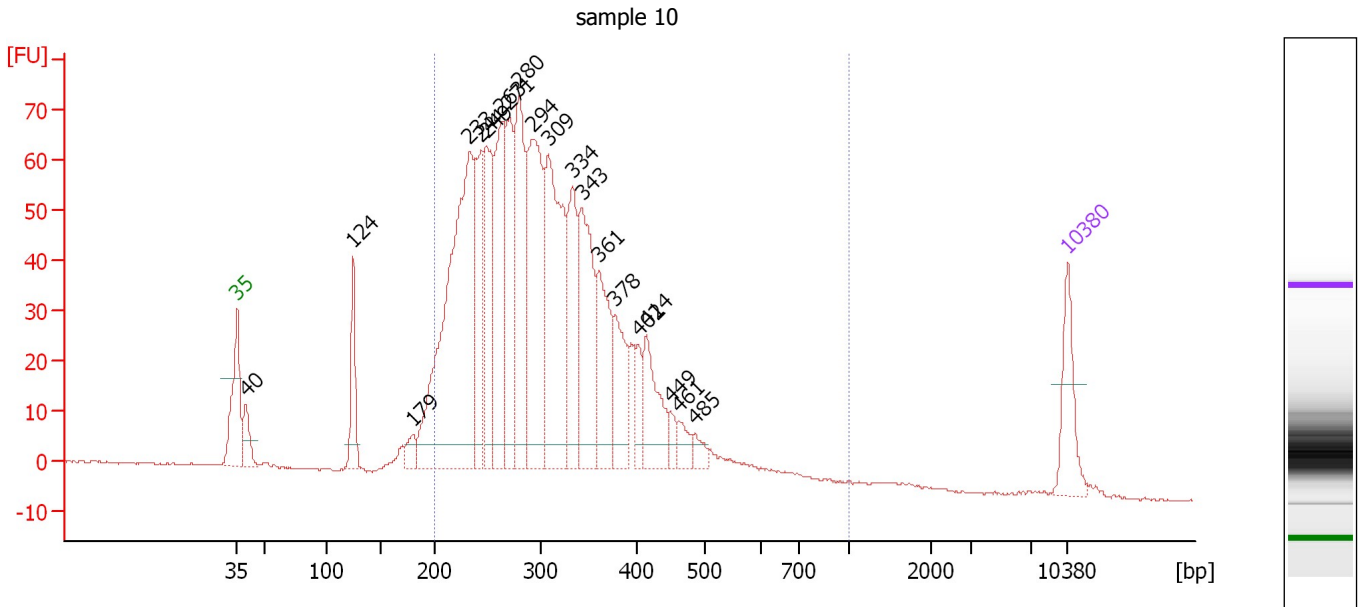
**Region table for sample 9 : sample 9**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	375	5,738.0	88,775.5	19,390.54	91	35.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 10**

Number of peaks found: 20                      Corr. Area 1: 1,482.7  
 Noise: 0.2

**Peak table for sample 10 : sample 10**

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	40	63.82	2,434.3		43.72
3	124	113.17	1,379.8		52.79
4	179	30.57	258.2		57.78
5	233	755.65	4,911.9		62.59
6	244	199.66	1,241.3		63.53
7	249	224.92	1,369.9		63.98
8	263	278.92	1,604.2		65.28
9	271	205.73	1,150.2		65.96
10	280	290.50	1,571.3		66.77
11	294	382.57	1,973.1		67.98
12	309	400.58	1,966.3		69.24
13	334	188.05	854.3		71.26
14	343	243.99	1,076.4		72.07
15	361	166.02	697.6		73.46
16	378	112.71	452.1		74.85
17	402	43.19	162.8		76.79
18	414	118.50	433.2		77.51
19	449	21.21	71.6		79.48
20	461	29.26	96.1		80.20
21	485	21.38	66.7		81.59
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**

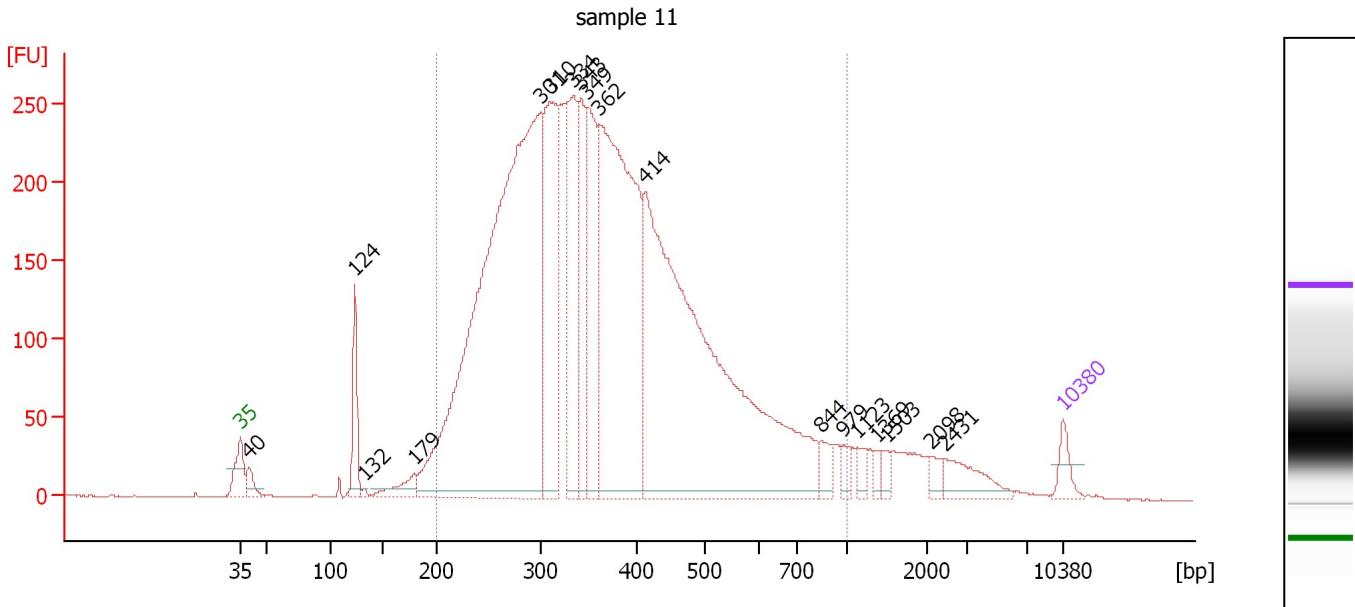
... Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	317	1,482.7	20,399.0	3,937.33	92	28.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 11**

Number of peaks found: 18                      Corr. Area 1: 6,507.3  
 Noise: 0.2

**Peak table for sample 11 : sample 11**

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	40	106.08	4,041.6		43.73
3	124	327.67	4,009.6		52.75
4	132	15.53	177.9		53.52
5	179	143.65	1,216.2		57.74
6	301	5,242.18	26,418.6		68.59
7	310	1,232.79	6,022.9		69.36
8	334	827.15	3,751.2		71.31
9	343	573.21	2,531.9		72.03
10	349	764.76	3,318.7		72.53
11	362	2,616.78	10,953.4		73.58
12	414	3,908.83	14,306.1		77.48
13	844	90.53	162.5		92.40
14	979	54.69	84.6		94.31
15	1,123	56.35	76.0		95.44
16	1,369	33.46	37.0		97.12
17	1,503	44.59	45.0		98.03
18	2,098	44.66	32.3		101.75
19	2,431	156.58	97.6		102.88
20	10,380	75.00	10.9	Upper Marker	113.00

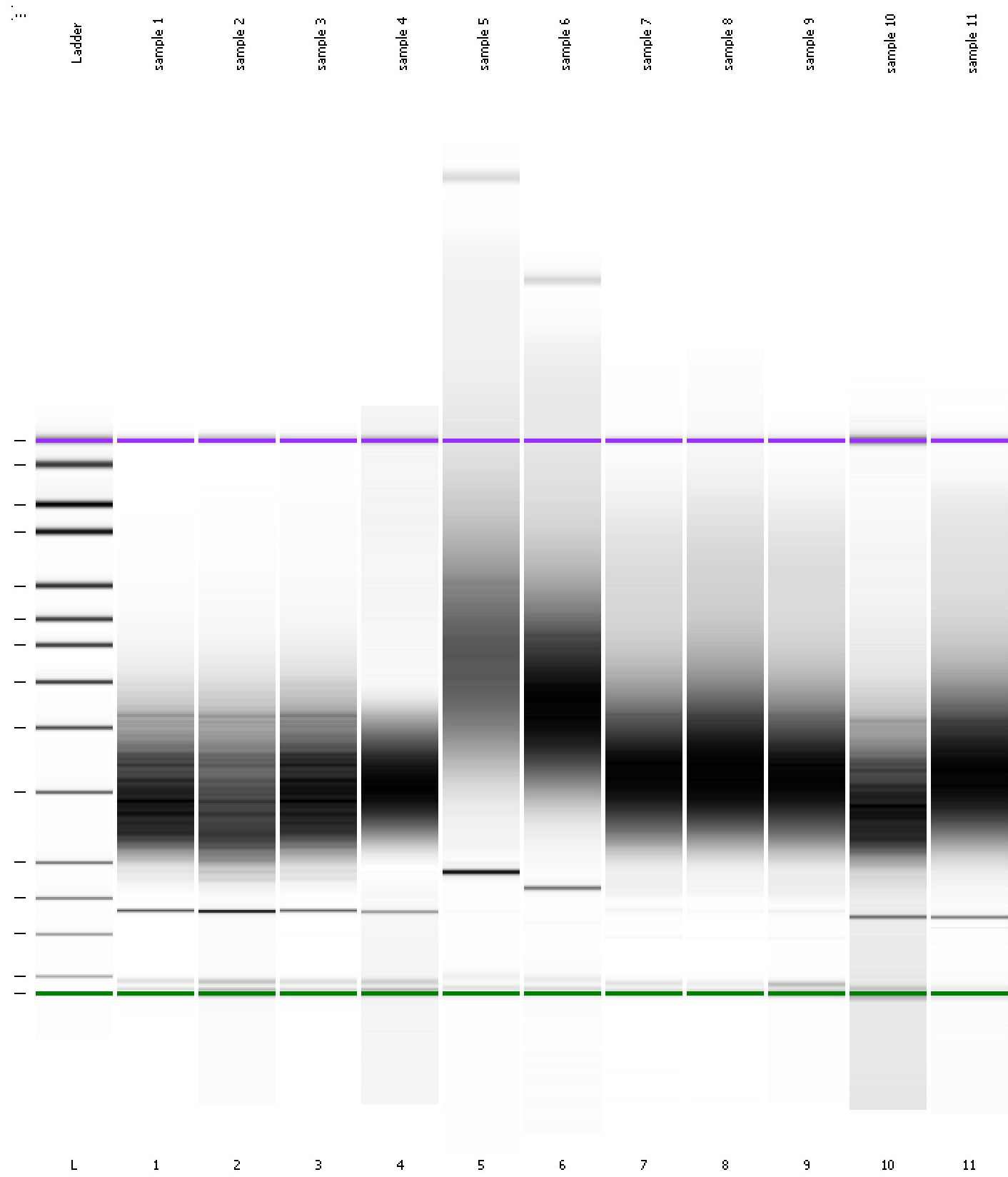
**Region table for sample 11 : sample 11**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	383	6,507.3	71,460.9	15,912.68	91	34.4

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
Modified: 4/14/2016 1:10:23 PM

**Gel Image**

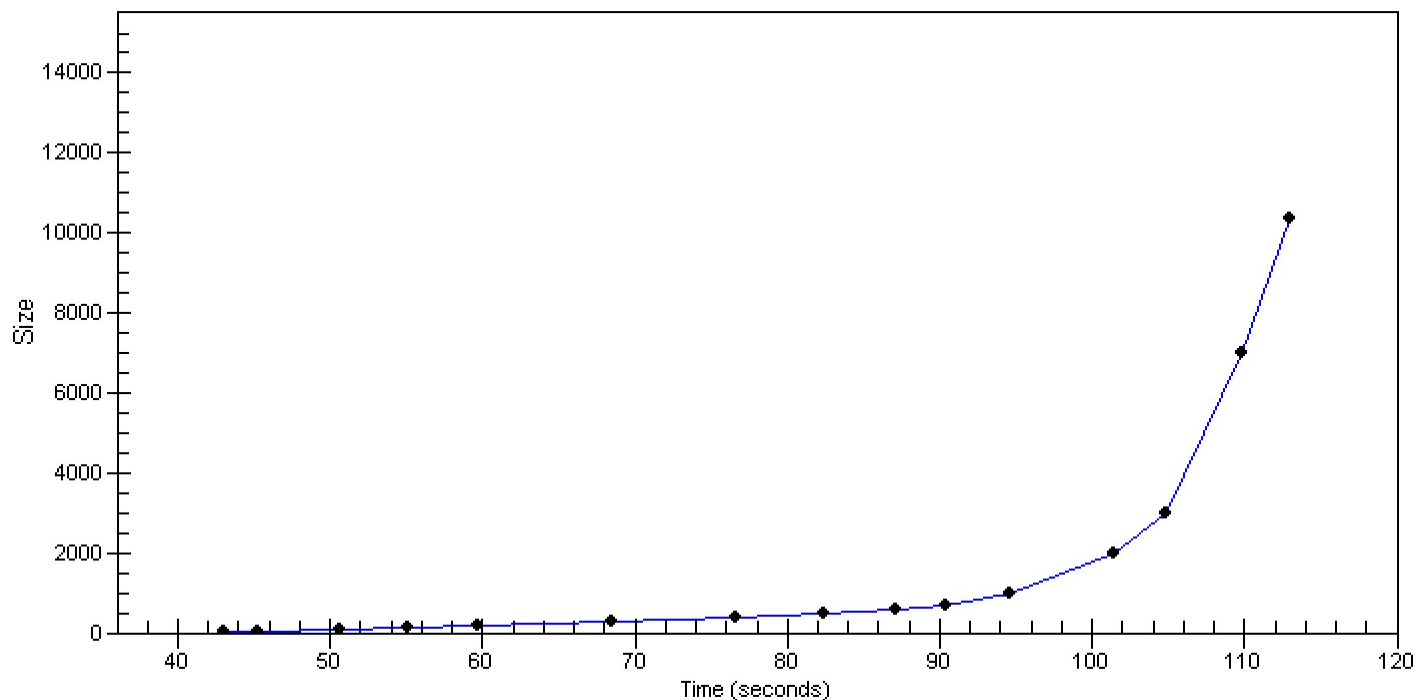


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
Modified: 4/14/2016 1:10:23 PM

**Curves**

**Standard Curve**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-14\2016-04-14\_002.xad

Created: 4/14/2016 12:19:16 PM  
 Modified: 4/14/2016 1:10:23 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		4/14/2016 1:00:35 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\2016-04-14\2016-04-14_002.xad)		Instrument	Run		4/14/2016 12:19:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/14/2016 12:19:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/14/2016 12:19:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/14/2016 12:19:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/14/2016 12:19:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/14/2016 12:19:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/14/2016 12:19:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1