

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
Modified: 11/12/2014 3:26:00 PM

**Electrophoresis File Run Summary**

Instrument Information:

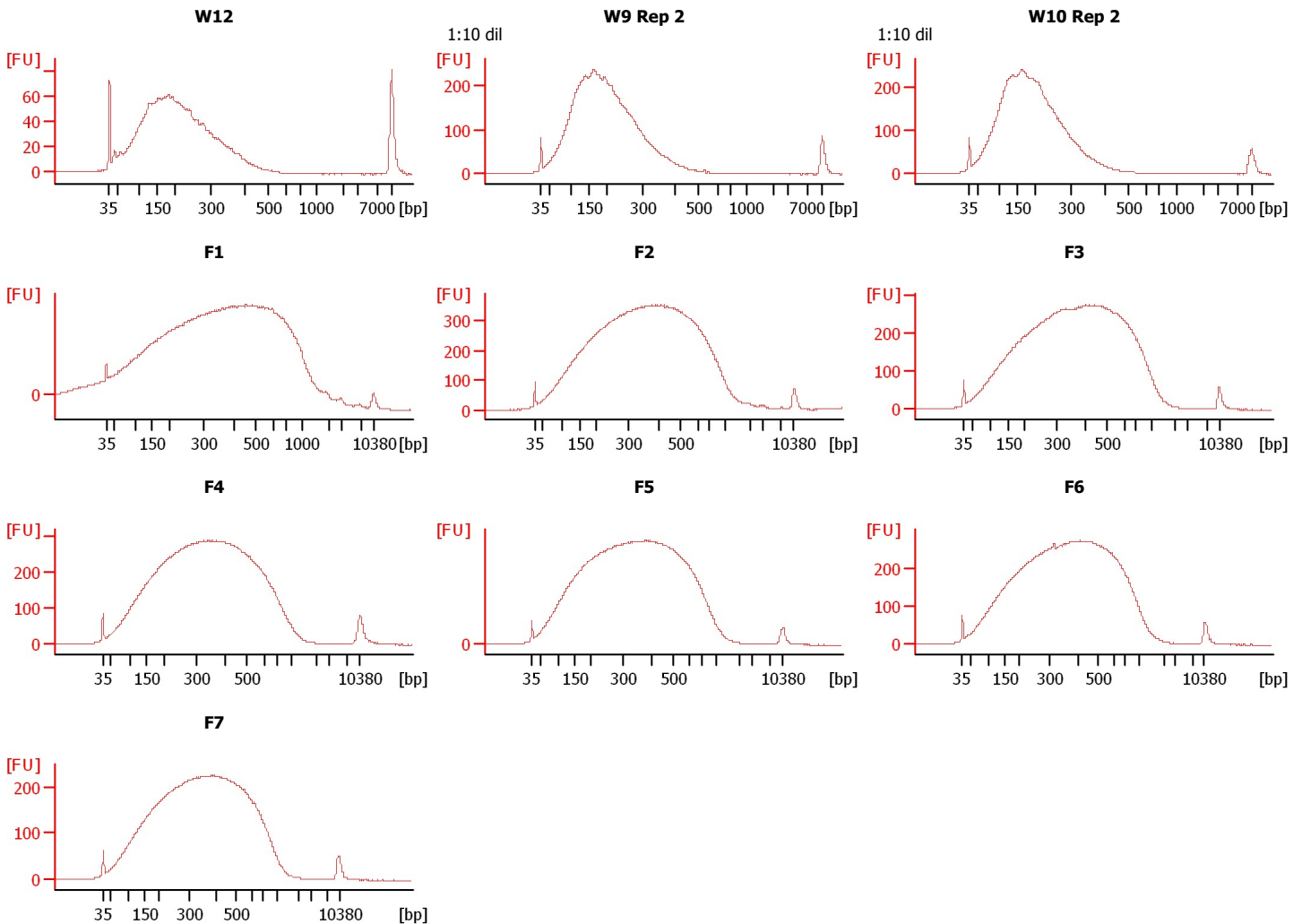
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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Created: 11/12/2014 2:47:07 PM  
Modified: 11/12/2014 3:26:00 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
W12		<input type="checkbox"/>	✓			
W9 Rep 2	1:10 dil	<input type="checkbox"/>	✓			
W10 Rep 2	1:10 dil	<input type="checkbox"/>	✓			
F1		<input type="checkbox"/>	✓			
F2		<input type="checkbox"/>	✓			
F3		<input type="checkbox"/>	✓			
F4		<input type="checkbox"/>	✓			
F5		<input type="checkbox"/>	✓			
F6		<input type="checkbox"/>	✓			
F7		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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Modified: 11/12/2014 3:26:00 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

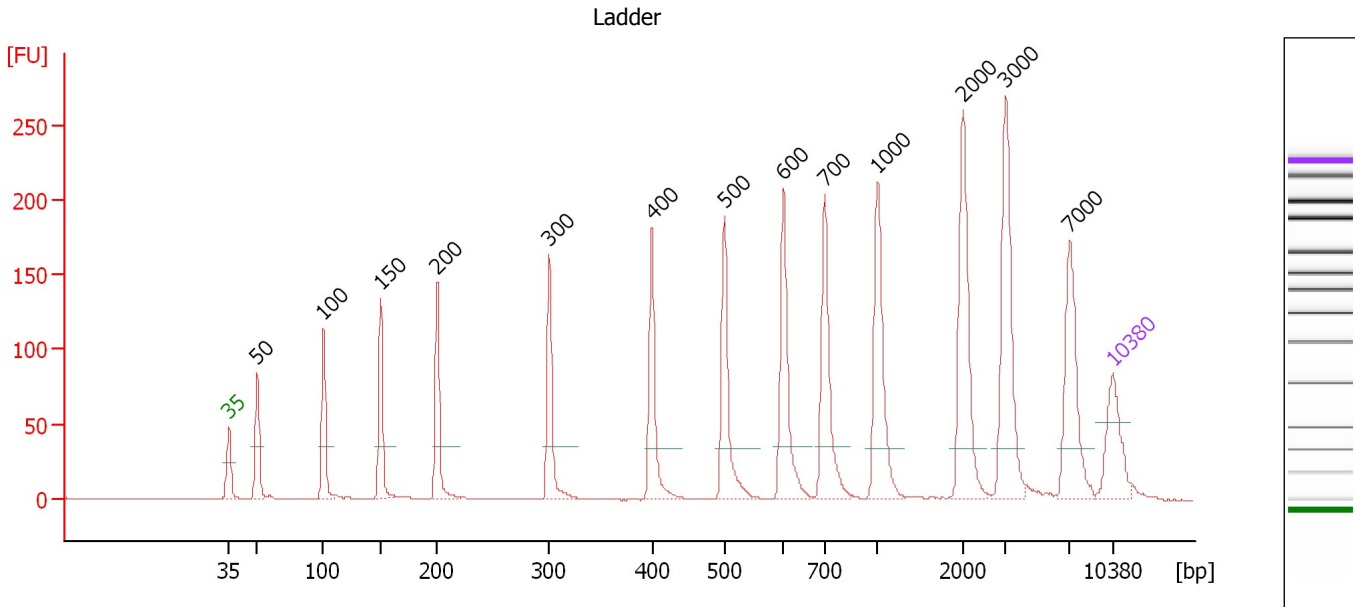
**Ladder**

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

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Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

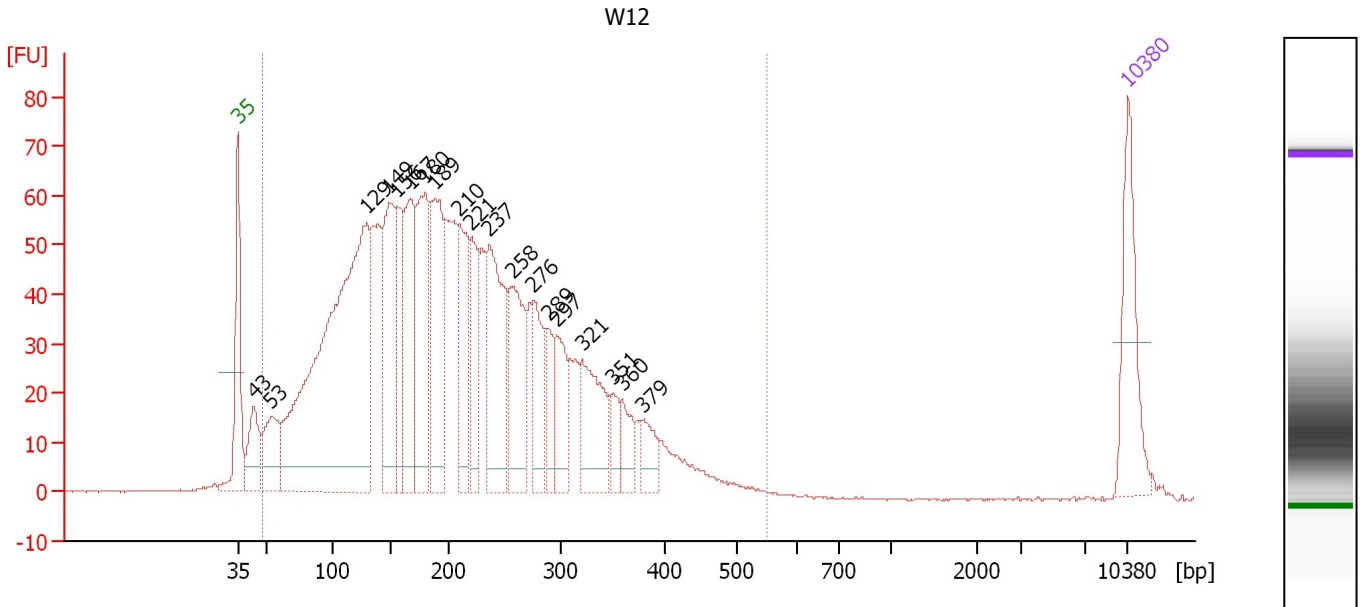
**Peak table for Ladder**

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

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : W12**

Number of peaks found: 19      Corr. Area 1: 2,109.6  
 Noise: 0.2

**Peak table for sample 1 : W12**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	74.52	2,609.3	
3	53	84.80	2,404.1	
4	129	797.03	9,354.5	
5	149	201.51	2,054.9	
6	156	106.75	1,039.6	
7	167	163.64	1,482.0	
8	180	188.26	1,581.1	
9	189	172.85	1,386.9	
10	210	117.52	846.0	
11	221	87.22	598.3	
12	237	188.16	1,203.1	
13	258	133.19	782.9	
14	276	74.67	409.6	
15	289	38.32	200.6	
16	297	72.16	368.1	
17	321	108.20	510.8	
18	351	29.11	125.8	
19	360	35.63	150.0	
20	379	33.23	132.8	
21	10,380	75.00	10.9	Upper Marker

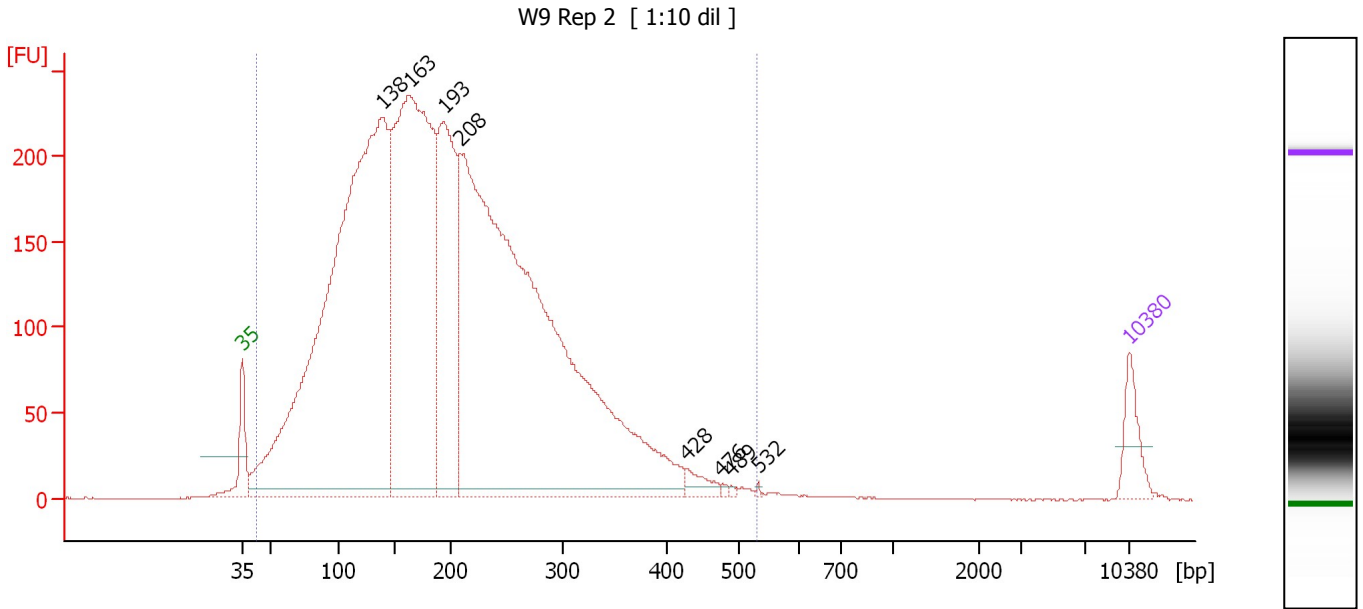
**Region table for sample 1 : W12**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
48	210	549	2,109.6	97	43.3	3,342.20	32,718.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : W9 Rep 2**

Number of peaks found: 8                      Corr. Area 1: 7,392.9  
 Noise: 0.1

**Peak table for sample 2 : W9 Rep 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	138	3,608.80	39,481.6	
3	163	2,223.42	20,626.8	
4	193	863.33	6,762.2	
5	208	3,810.06	27,740.2	
6	428	43.32	153.4	
7	476	6.00	19.1	
8	489	4.55	14.1	
9	532	2.73	7.8	
10	10,380	75.00	10.9	Upper Marker

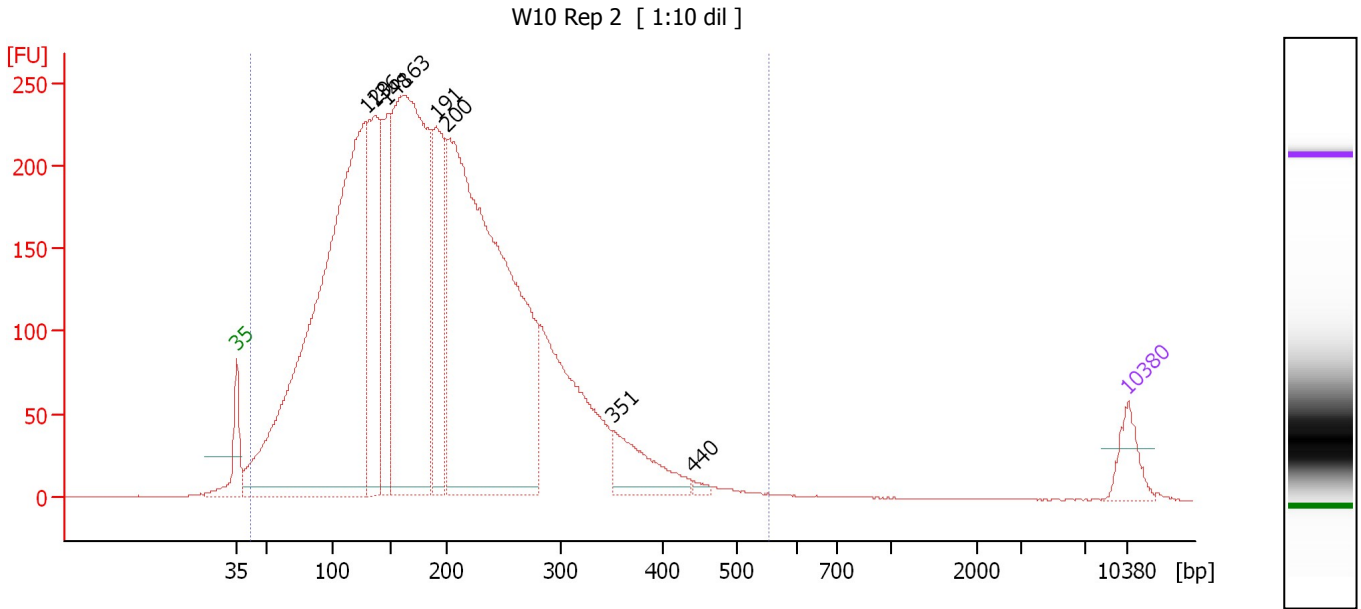
**Region table for sample 2 : W9 Rep 2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
42	198	529	7,392.9	99	42.6	10,410.84	105,188.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : W10 Rep 2**

Number of peaks found: 8                      Corr. Area 1: 7,651.4  
 Noise: 0.2

**Peak table for sample 3 : W10 Rep 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	3,304.27	38,822.0	
3	136	786.24	8,735.4	
4	148	499.11	5,111.1	
5	163	2,155.21	19,987.6	
6	191	560.60	4,458.6	
7	200	2,930.01	22,160.5	
8	351	246.91	1,066.4	
9	440	17.08	58.8	
10	10,380	75.00	10.9	Upper Marker

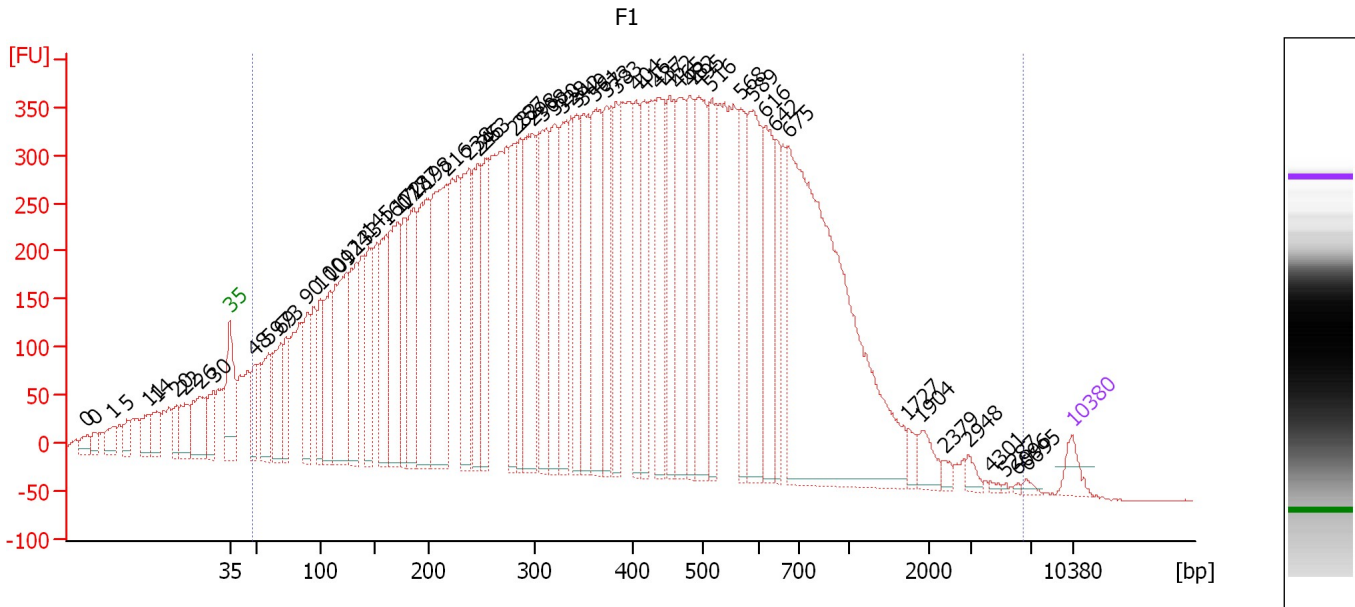
**Region table for sample 3 : W10 Rep 2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
42	192	554	7,651.4	99	42.8	11,597.27	120,699.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : F1**

Number of peaks found: 61                      Corr. Area 1: 21,893.7  
 Noise: 0.6

**Peak table for sample 4 : F1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	1	0.00	0.0	
4	5	0.00	0.0	
5	11	0.00	0.0	
6	14	0.00	0.0	
7	20	0.00	0.0	
8	22	0.00	0.0	
9	26	0.00	0.0	
10	30	0.00	0.0	
11	35	125.00	5,411.3	Lower Marker
12	48	283.19	8,868.4	
13	59	407.87	10,464.5	
14	69	437.04	9,628.9	
15	73	321.12	6,665.6	
16	90	454.99	7,669.4	
17	100	397.85	6,026.5	
18	109	530.61	7,353.8	
19	124	1,009.90	12,290.7	
20	133	580.69	6,600.0	
21	145	467.47	4,899.5	
22	160	578.03	5,462.8	
23	172	875.90	7,730.0	
24	177	481.32	4,117.4	
25	187	665.65	5,393.3	
26	198	887.09	6,792.8	



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Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 4 : F1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	216	1,292.58	9,054.2	
28	238	710.23	4,526.2	
29	246	671.97	4,134.9	
30	253	524.74	3,139.9	
31	282	516.52	2,778.8	
32	287	480.75	2,541.3	
33	298	839.41	4,273.6	
34	308	651.92	3,210.1	
35	320	678.04	3,214.0	
36	328	564.67	2,605.9	
37	342	453.82	2,011.2	
38	349	619.29	2,684.9	
39	361	812.96	3,408.1	
40	373	432.67	1,755.8	
41	383	428.20	1,693.4	
42	404	445.64	1,672.2	
43	416	442.03	1,609.5	
44	437	689.83	2,392.3	
45	452	527.66	1,767.6	
46	465	646.44	2,104.6	
47	482	457.57	1,437.3	
48	495	720.61	2,203.8	
49	516	436.17	1,280.5	
50	568	474.71	1,266.3	
51	589	730.97	1,881.1	
52	616	525.80	1,292.3	
53	642	302.01	712.4	
54	675	3,016.97	6,772.7	
55	1,727	60.35	52.9	
56	1,904	98.63	78.5	
57	2,379	29.32	18.7	
58	2,948	37.31	19.2	
59	4,301	10.70	3.8	
60	5,287	5.85	1.7	
61	6,096	6.69	1.7	
62	6,695	16.49	3.7	
63	10,380	75.00	10.9	Upper Marker

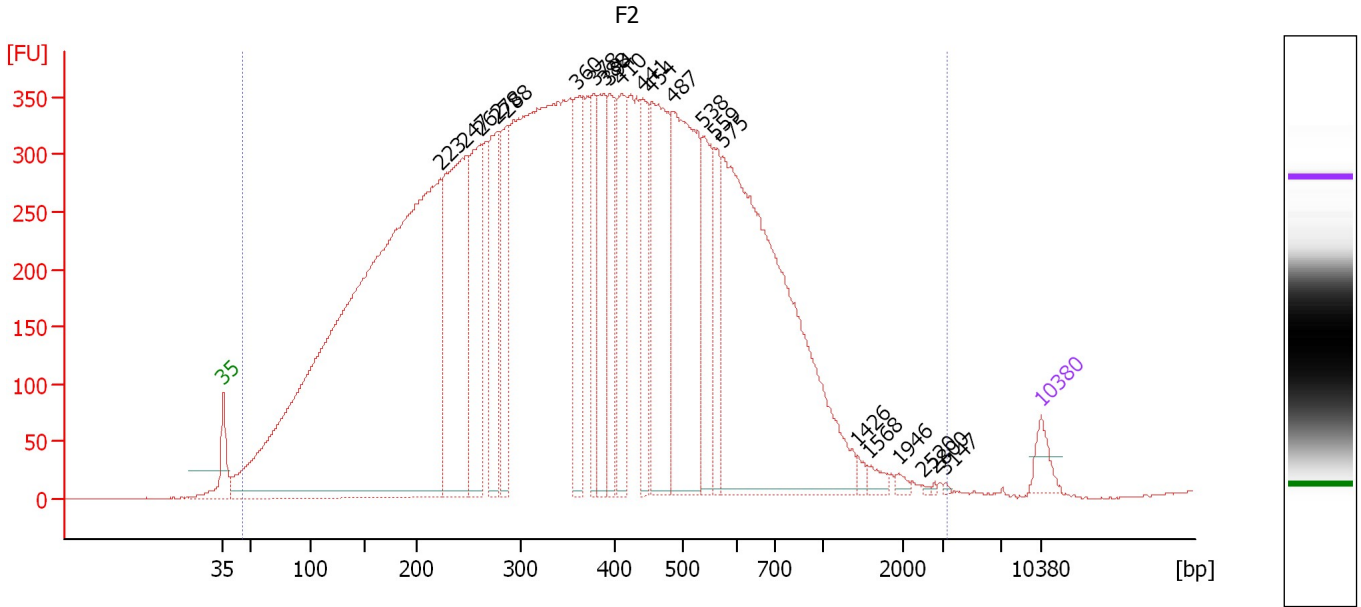
**Region table for sample 4 : F1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
47	459	6,524	21,893.7	95	85.3	34,060.60	228,028.6	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : F2**

Number of peaks found: 22                      Corr. Area 1: 17,843.0  
 Noise: 0.5


**Peak table for sample 5 : F2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	7,200.72	48,862.0	
3	247	1,660.46	10,166.0	
4	262	804.91	4,647.7	
5	278	706.01	3,850.1	
6	288	601.78	3,164.5	
7	360	640.06	2,694.6	
8	378	382.58	1,534.3	
9	388	517.58	2,018.8	
10	394	453.02	1,741.9	
11	410	526.92	1,948.0	
12	441	427.40	1,469.0	
13	454	1,013.50	3,379.8	
14	487	1,383.56	4,305.2	
15	538	496.47	1,399.4	
16	559	305.01	826.8	
17	575	2,843.22	7,498.0	
18	1,426	31.87	33.9	
19	1,568	38.24	37.0	
20	1,946	19.58	15.2	
21	2,520	4.64	2.8	
22	2,800	4.58	2.5	
23	3,147	5.09	2.5	
24	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
Modified: 11/12/2014 3:26:00 PM

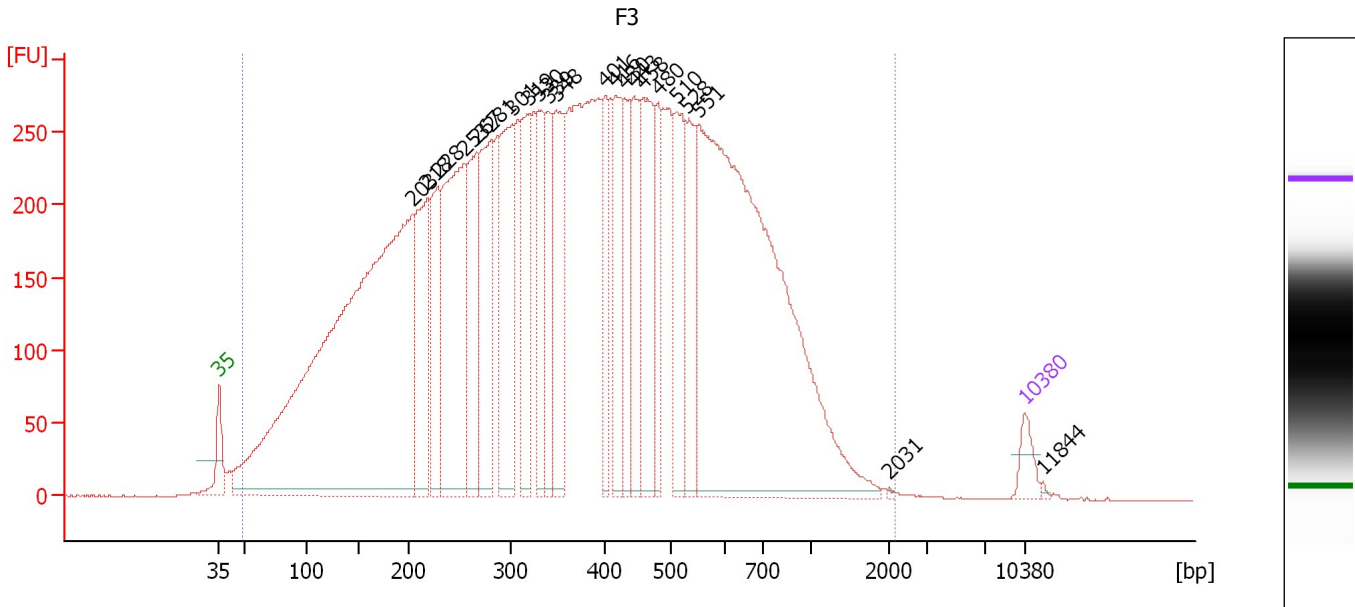
**Electropherogram Summary Continued ...****... Region table for sample 5 :      F2**

<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>% of Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/<math>\mu</math>l]</b>	<b>Molarity [pmol/l]</b>	<b>Co lor</b>
45	401	3,302	17,843.0	100	63.2	26,889.84	171,497.7	

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : F3**

Number of peaks found: 22                      Corr. Area 1: 14,002.4  
 Noise: 0.4

**Peak table for sample 6 : F3**


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	203	5,355.71	40,006.3	
3	218	813.87	5,657.1	
4	228	565.62	3,760.4	
5	253	1,384.07	8,272.9	
6	267	721.63	4,102.1	
7	281	811.81	4,382.9	
8	301	842.95	4,249.9	
9	319	625.51	2,973.7	
10	330	470.61	2,164.0	
11	339	372.84	1,665.6	
12	348	646.90	2,819.1	
13	401	337.13	1,274.6	
14	416	461.50	1,680.6	
15	430	403.58	1,422.8	
16	443	449.86	1,537.0	
17	458	639.66	2,116.2	
18	480	310.91	981.9	
19	510	520.94	1,548.3	
20	528	453.09	1,301.3	
21	551	3,670.10	10,087.2	
22	2,031	3.78	2.8	
23	10,380	75.00	10.9	Upper Marker
24	11,844	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
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Created: 11/12/2014 2:47:07 PM  
Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**

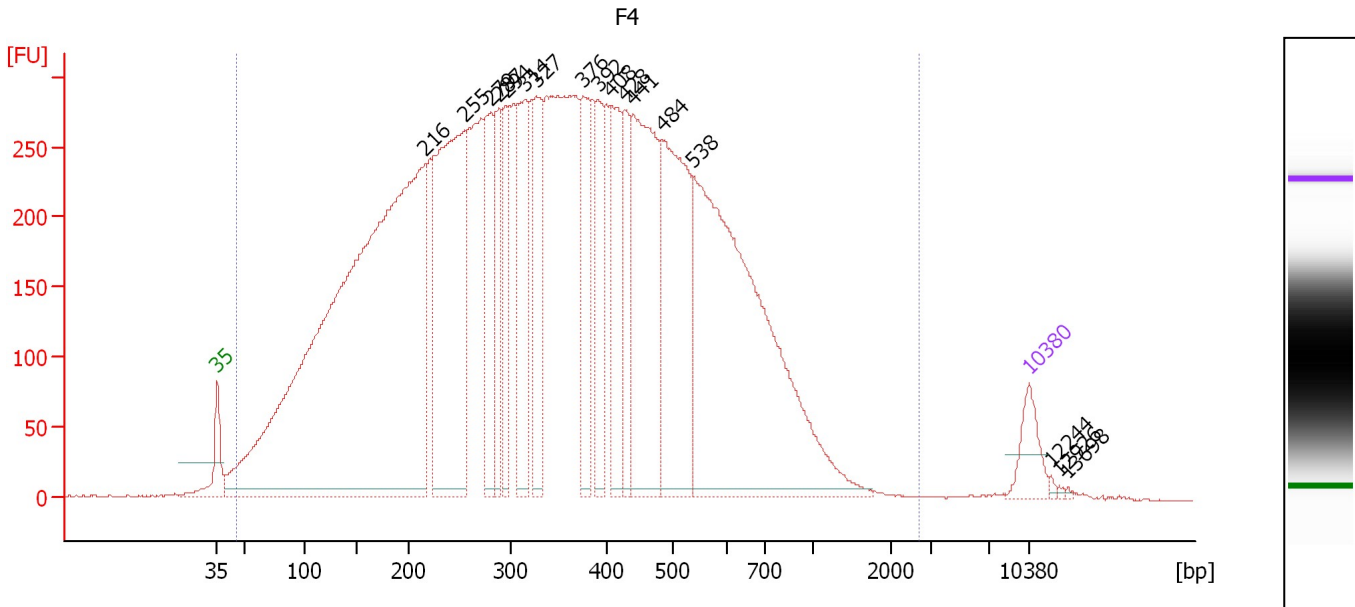
... Region table for sample 6 : F3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Color
48	408	2,180	14,002.3	99	57.3	24,435.35	151,844.1	

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : F4**

Number of peaks found: 17      Corr. Area 1: 14,565.3  
 Noise: 0.3

**Peak table for sample 7 : F4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	216	3,689.61	25,866.9	
3	255	1,153.31	6,866.0	
4	279	342.44	1,857.0	
5	287	250.57	1,322.0	
6	294	248.87	1,280.6	
7	314	360.41	1,737.6	
8	327	302.64	1,403.6	
9	376	299.26	1,204.7	
10	392	243.33	941.5	
11	408	302.22	1,122.0	
12	428	227.37	804.7	
13	441	688.59	2,366.0	
14	484	658.09	2,059.2	
15	538	1,540.05	4,340.6	
16	10,380	75.00	10.9	Upper Marker
17	12,244	0.00	0.0	
18	12,926	0.00	0.0	
19	13,698	0.00	0.0	

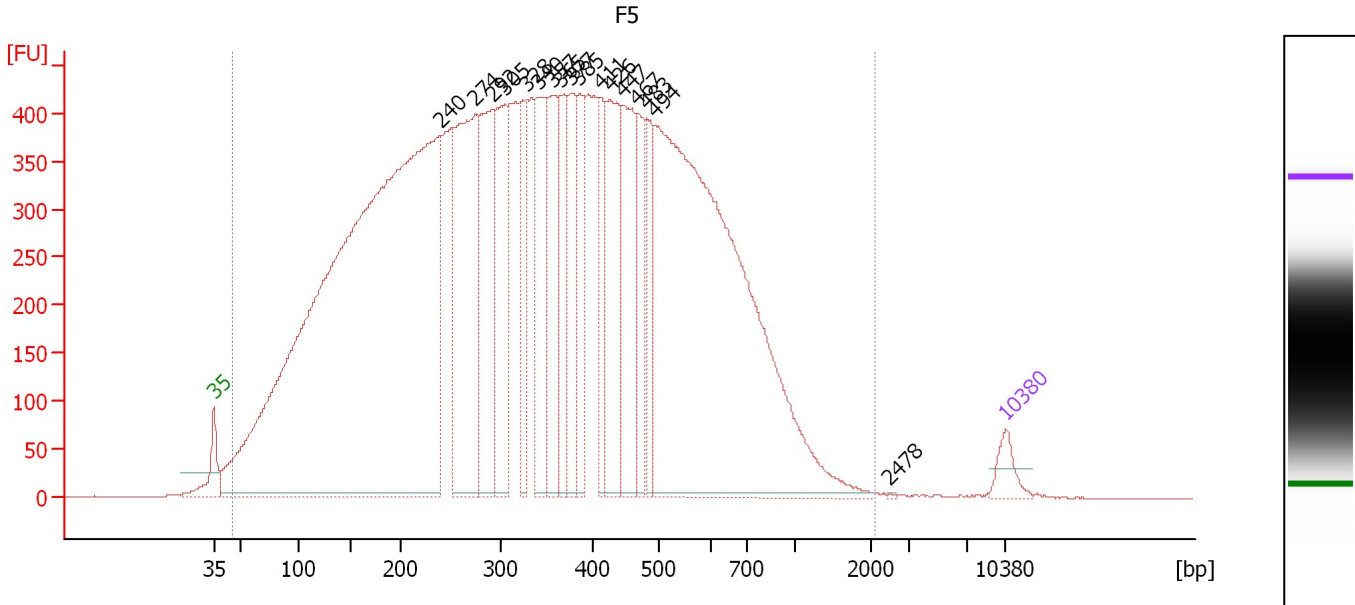
**Region table for sample 7 : F4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
46	371	2,686	14,565.3	99	55.4	13,654.84	90,211.2	Blue

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : F5**

Number of peaks found: 17      Corr. Area 1: 22,217.4  
 Noise: 0.3

**Peak table for sample 8 : F5**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	240	8,162.43	51,580.4	
3	274	1,503.04	8,301.5	
4	292	909.81	4,714.4	
5	305	802.54	3,986.3	
6	328	415.42	1,921.3	
7	340	610.84	2,719.5	
8	357	588.93	2,498.8	
9	365	468.88	1,945.3	
10	377	458.17	1,842.5	
11	385	422.12	1,659.3	
12	411	325.76	1,199.8	
13	426	737.01	2,620.4	
14	447	642.21	2,174.4	
15	467	390.88	1,267.7	
16	483	313.11	982.6	
17	494	4,234.07	12,978.9	
18	2,478	2.28	1.4	
19	10,380	75.00	10.9	Upper Marker

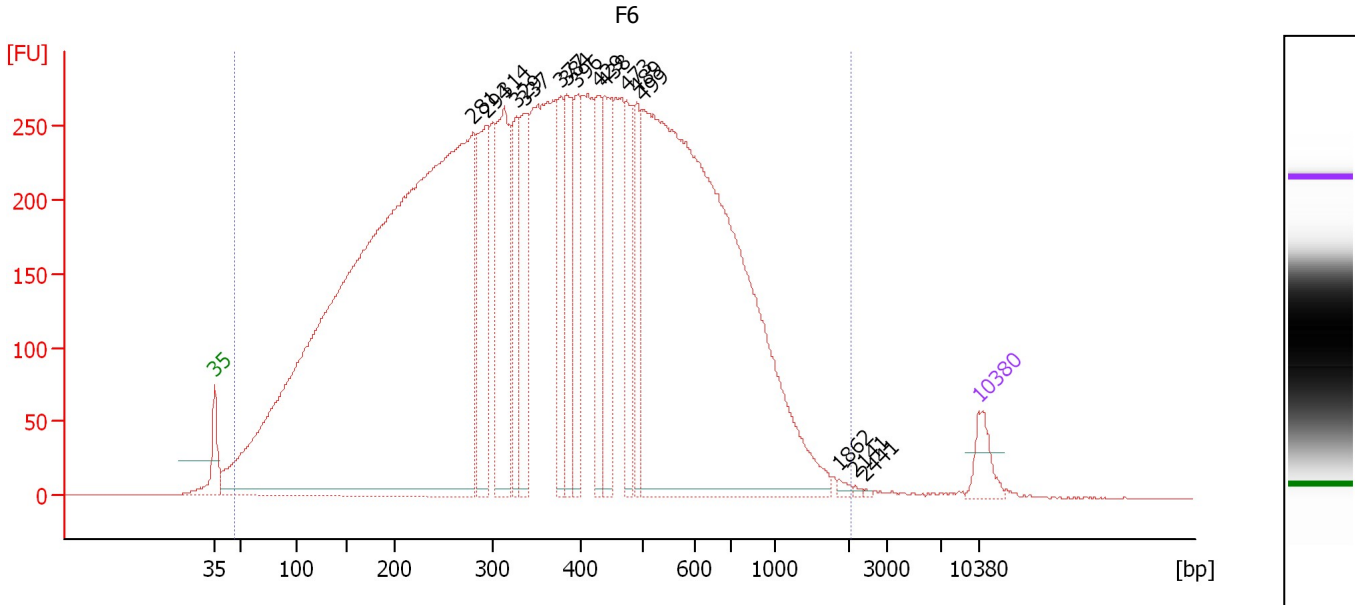
**Region table for sample 8 : F5**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
46	374	2,101	22,217.4	99	56.4	25,108.16	169,868.7	Blue

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 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : F6**

Number of peaks found: 16                      Corr. Area 1: 13,626.1  
 Noise: 0.3

**Peak table for sample 9 : F6**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	281	6,729.58	36,282.7	
3	294	533.17	2,745.4	
4	314	668.20	3,223.0	
5	329	321.85	1,484.4	
6	337	388.35	1,746.5	
7	377	304.54	1,223.7	
8	384	365.00	1,439.2	
9	396	293.30	1,121.5	
10	429	304.62	1,076.6	
11	438	382.21	1,322.0	
12	473	270.28	865.9	
13	489	246.57	763.8	
14	499	3,913.52	11,875.2	
15	1,862	12.41	10.1	
16	2,141	5.43	3.8	
17	2,441	3.42	2.1	
18	10,380	75.00	10.9	Upper Marker

**Region table for sample 9 : F6**

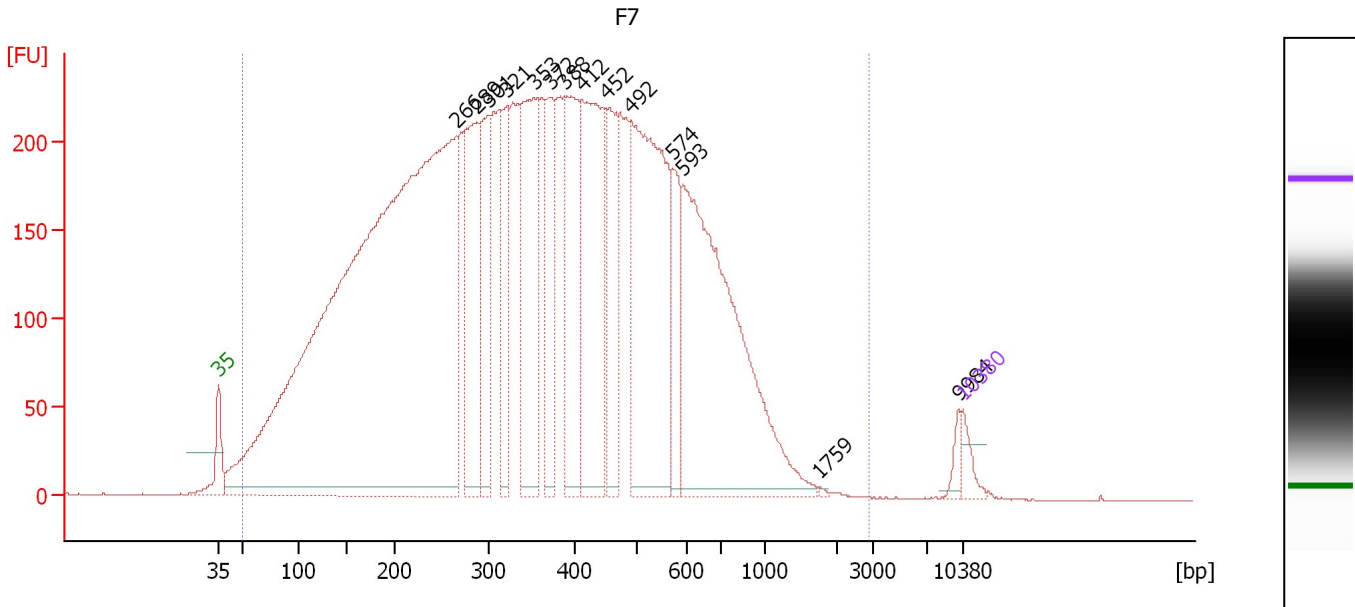
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
47	407	2,064	13,626.1	99	58.7	18,796.83	118,407.4	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : F7**

Number of peaks found: 14                      Corr. Area 1: 10,940.7  
 Noise: 0.2

**Peak table for sample 10 : F7**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	266	9,318.26	53,067.3	
3	289	1,138.35	5,974.9	
4	301	656.70	3,310.1	
5	321	535.98	2,530.6	
6	353	1,183.93	5,083.0	
7	372	553.52	2,254.6	
8	388	944.72	3,689.3	
9	412	1,406.20	5,174.3	
10	452	627.80	2,104.7	
11	492	1,982.56	6,104.1	
12	574	371.10	979.9	
13	593	2,334.88	5,965.3	
14	1,759	6.51	5.6	
15	9,984	50.01	7.6	
16	10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : F7**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
51	388	2,891	10,940.7	99	56.4	26,745.59	169,460.0	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
Modified: 11/12/2014 3:26:00 PM

**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
Modified: 11/12/2014 3:26:00 PM

**Invalid Samples**

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-12\2014-11-12\_004.xad

Created: 11/12/2014 2:47:07 PM  
 Modified: 11/12/2014 3:26:00 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		11/12/2014 3:25:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-12\2014-11-12_004.xad)		Instrument	Run		11/12/2014 2:47:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/12/2014 2:47:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/12/2014 2:47:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/12/2014 2:47:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/12/2014 2:47:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/12/2014 2:47:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/12/2014 2:47:13 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1