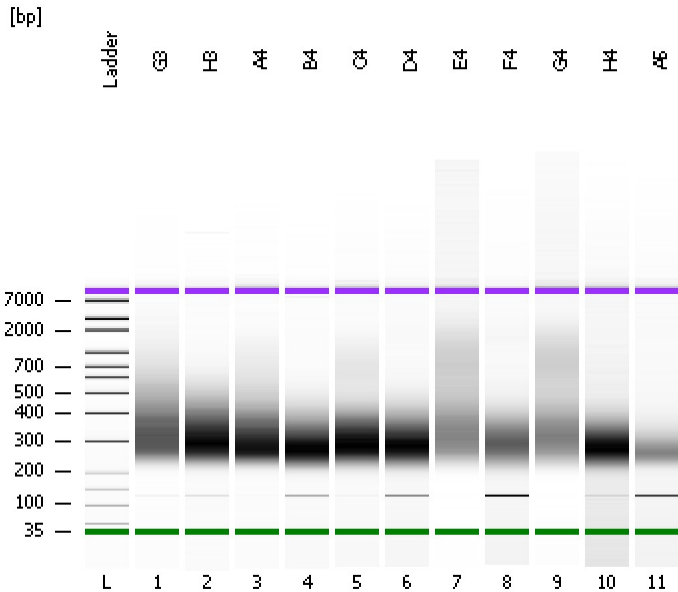


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
Modified: 9/18/2017 2:04:00 PM

**Electrophoresis File Run Summary**



Instrument Information:

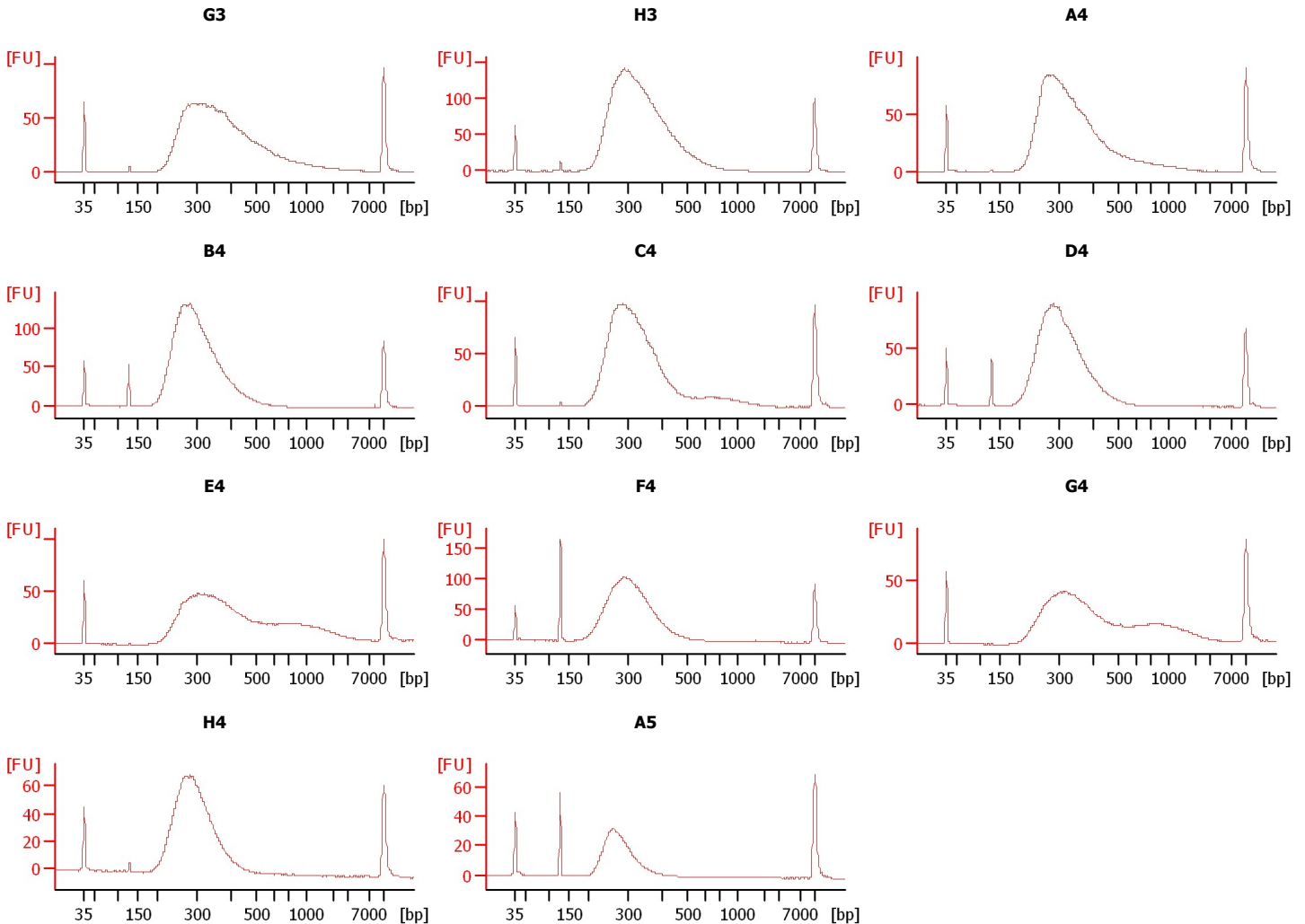
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
G3		<input type="checkbox"/>	✓			
H3		<input type="checkbox"/>	✓			
A4		<input type="checkbox"/>	✓			
B4		<input type="checkbox"/>	✓			
C4		<input type="checkbox"/>	✓			
D4		<input type="checkbox"/>	✓			
E4		<input type="checkbox"/>	✓			
F4		<input type="checkbox"/>	✓			
G4		<input type="checkbox"/>	✓			
H4		<input type="checkbox"/>	✓			
A5		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

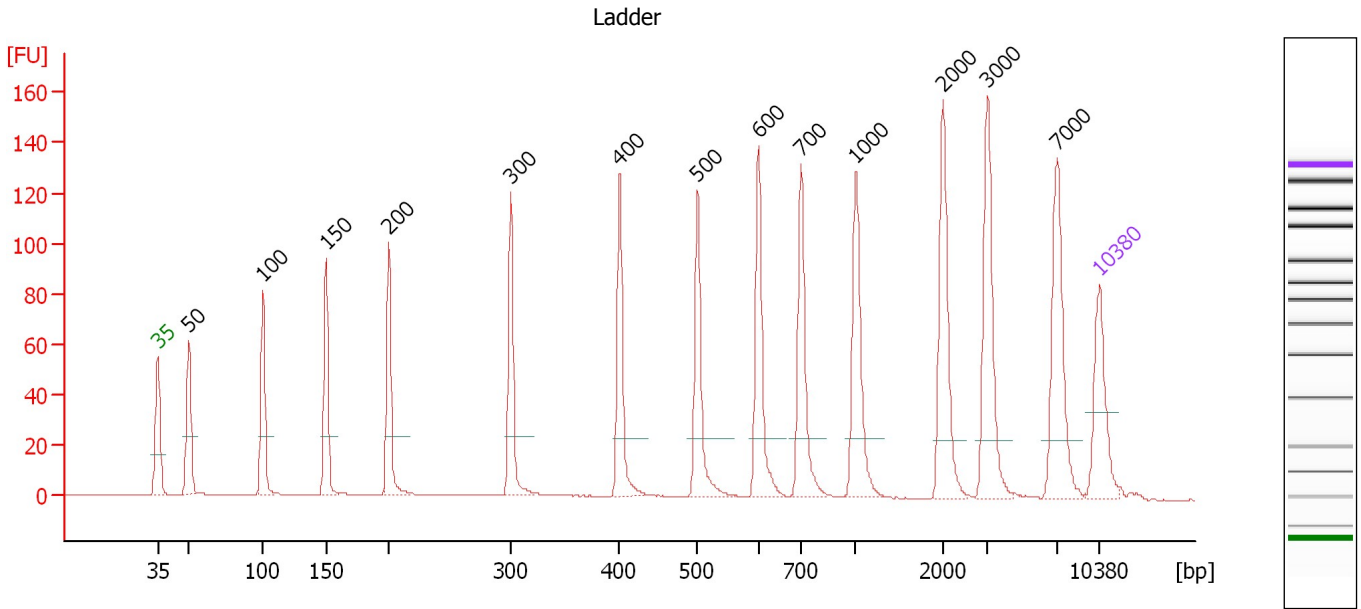
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

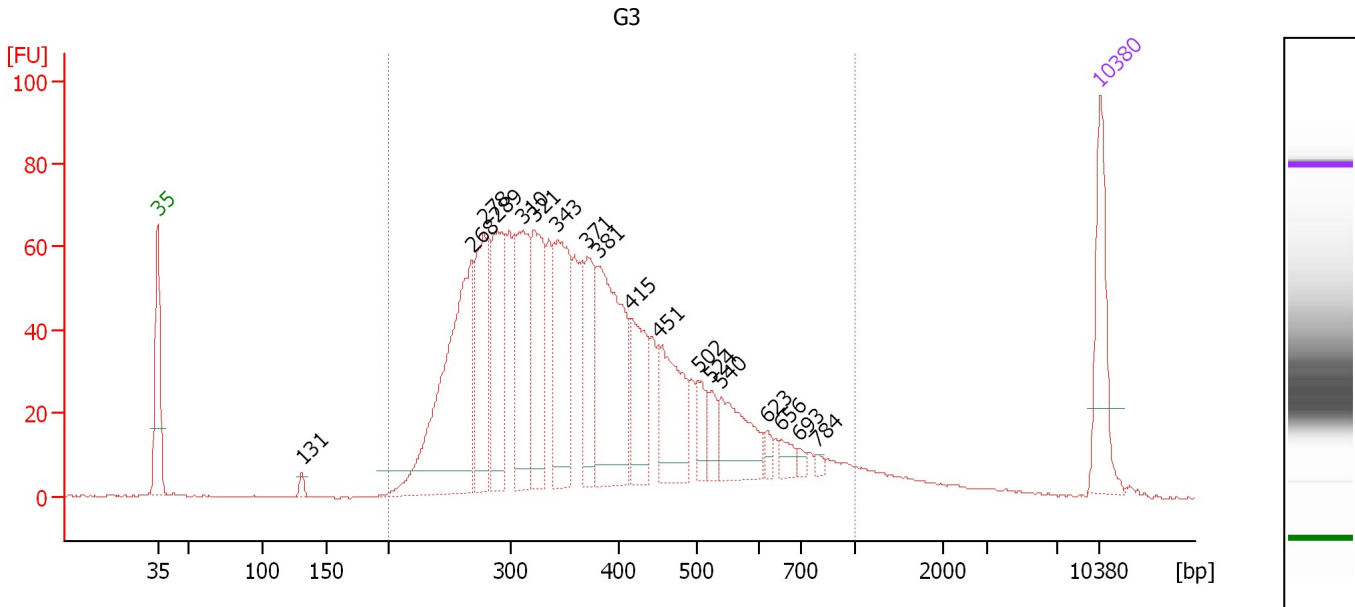
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.33
3	100	150.00	2,272.7	Ladder Peak	50.84
4	150	150.00	1,515.2	Ladder Peak	55.50
5	200	150.00	1,136.4	Ladder Peak	60.17
6	300	150.00	757.6	Ladder Peak	69.24
7	400	150.00	568.2	Ladder Peak	77.33
8	500	150.00	454.5	Ladder Peak	83.09
9	600	150.00	378.8	Ladder Peak	87.60
10	700	150.00	324.7	Ladder Peak	90.77
11	1,000	150.00	227.3	Ladder Peak	94.84
12	2,000	150.00	113.6	Ladder Peak	101.34
13	3,000	150.00	75.8	Ladder Peak	104.67
14	7,000	150.00	32.5	Ladder Peak	109.82
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : G3**

Number of peaks found: 18      Corr. Area 1: 1,605.4  
 Noise: 0.2

**Peak table for sample 1 : G3**

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	131	8.57	99.2		53.72
3	268	334.18	1,889.7		66.33
4	278	158.69	865.3		67.23
5	289	146.75	769.6		68.24
6	310	158.71	774.6		70.09
7	321	140.13	661.5		70.94
8	343	156.02	689.9		72.69
9	371	90.96	372.0		74.95
10	381	213.16	847.6		75.80
11	415	87.79	320.4		78.20
12	451	107.91	362.7		80.25
13	502	29.79	90.0		83.16
14	524	26.11	75.5		84.16
15	540	75.54	211.8		84.91
16	623	10.42	25.4		88.31
17	656	14.27	33.0		89.37
18	693	5.85	12.8		90.57
19	784	4.71	9.1		91.92
20	10,380	75.00	10.9	Upper Marker	113.00

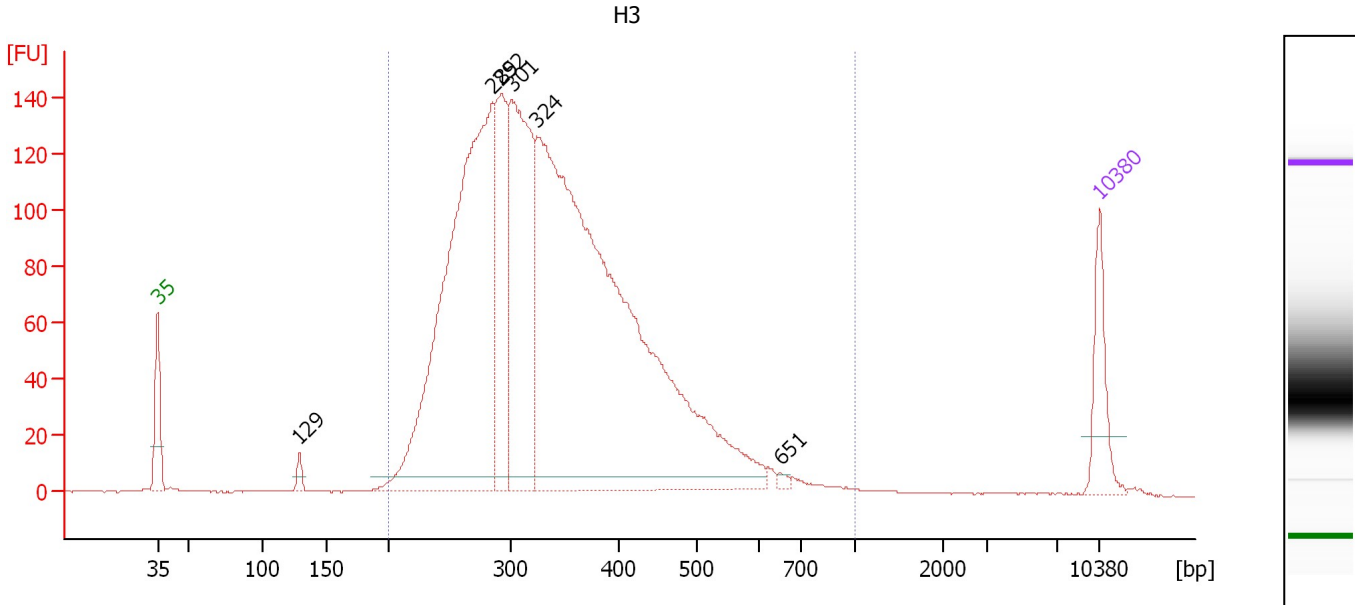
**Region table for sample 1 : G3**

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	388	1,605.4	10,135.5	2,295.53	96	33.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : H3**

Number of peaks found: 6                      Corr. Area 1: 2,769.7  
 Noise: 0.2

**Peak table for sample 2 : H3**

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	129	18.16	213.6		53.53
3	285	1,146.57	6,096.5		67.88
4	292	273.06	1,416.1		68.53
5	301	536.20	2,697.6		69.34
6	324	1,857.77	8,698.8		71.15
7	651	6.40	14.9		89.23
8	10,380	75.00	10.9	Upper Marker	113.00

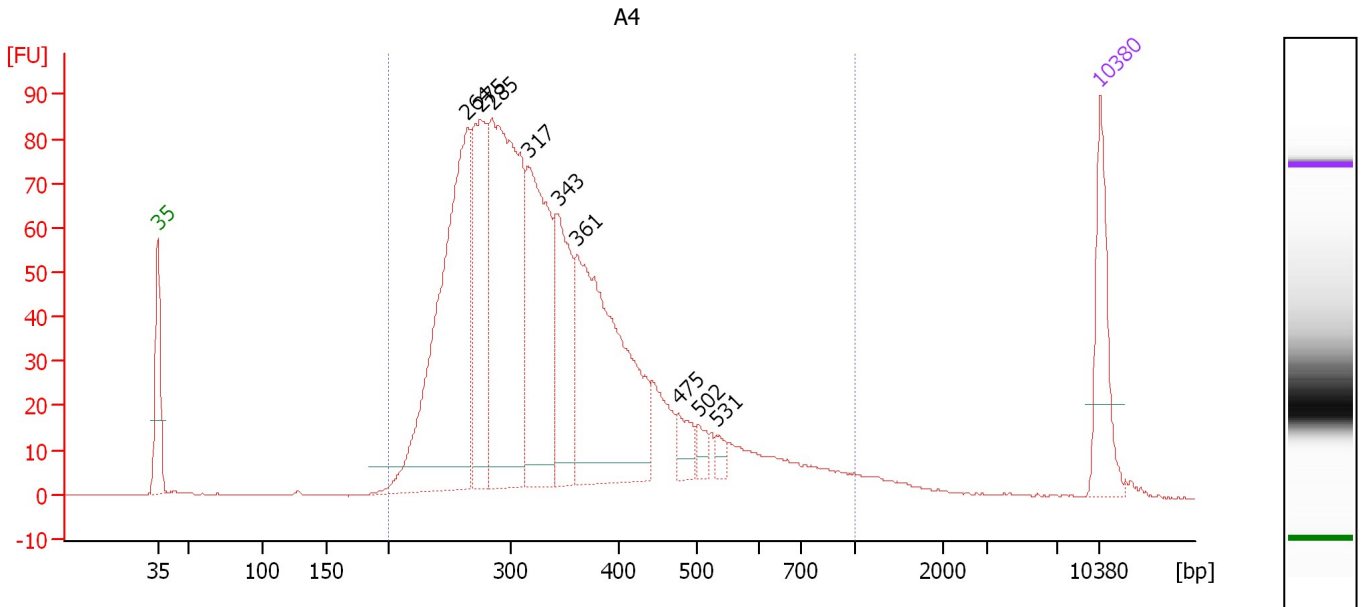
**Region table for sample 2 : H3**

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	345	2,769.7	17,740.9	3,744.35	98	26.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

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 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : A4**

Number of peaks found: 9                      Corr. Area 1: 1,651.9  
 Noise: 0.1

**Peak table for sample 3 : A4**

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	264	515.51	2,954.6		66.01
3	275	223.26	1,232.1		66.93
4	285	477.24	2,539.6		67.86
5	317	290.55	1,390.9		70.58
6	343	164.41	725.8		72.74
7	361	391.36	1,642.7		74.17
8	475	30.08	95.9		81.67
9	502	15.80	47.7		83.16
10	531	11.35	32.4		84.50
11	10,380	75.00	10.9	Upper Marker	113.00

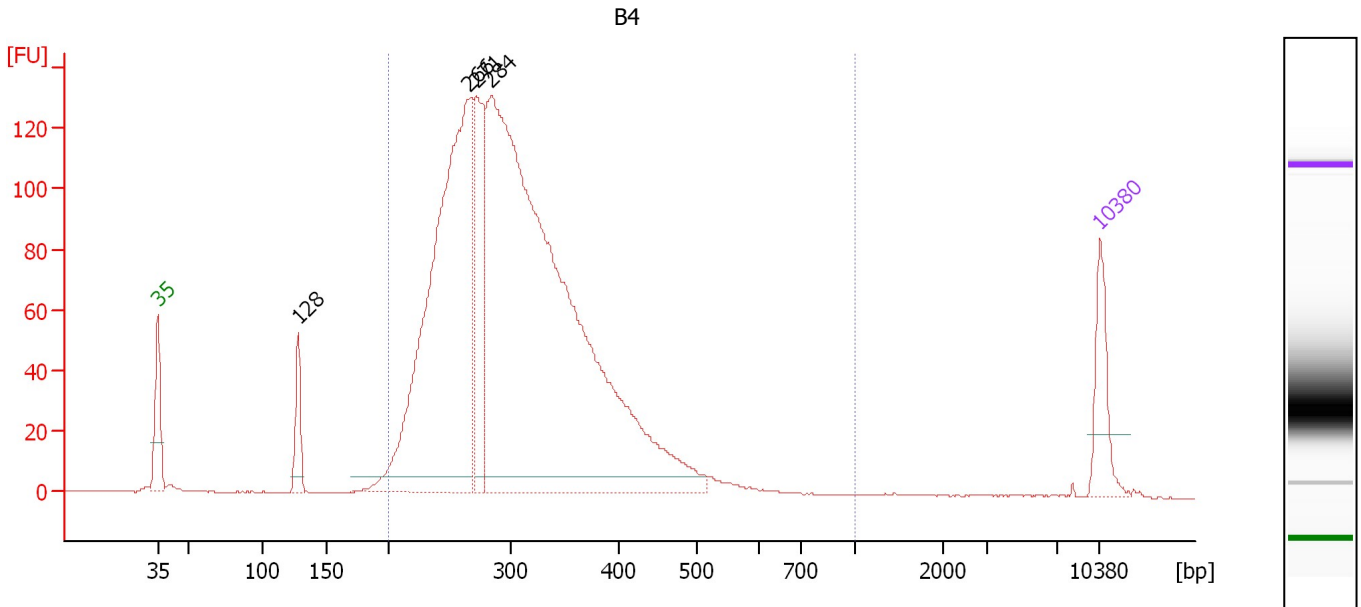
**Region table for sample 3 : A4**

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	352	1,651.9	11,519.1	2,412.84	97	33.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : B4**

Number of peaks found: 4                      Corr. Area 1: 2,144.4  
 Noise: 0.2

**Peak table for sample 4 : B4**

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	128	85.39	1,009.7		53.46
3	266	1,103.83	6,282.4		66.18
4	271	267.32	1,492.4		66.65
5	284	2,154.26	11,489.9		67.80
6	10,380	75.00	10.9	Upper Marker	113.00

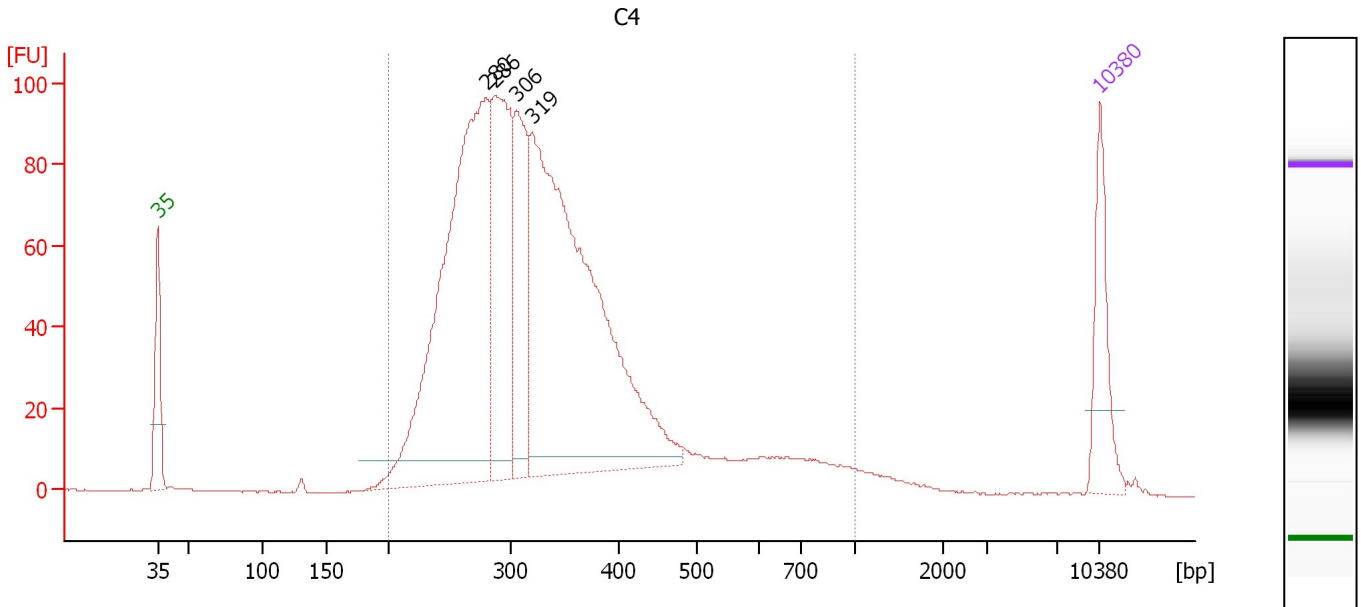
**Region table for sample 4 : B4**

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	309	2,144.4	17,823.8	3,456.25	96	22.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : C4**

Number of peaks found: 4                      Corr. Area 1: 1,790.5  
 Noise: 0.1

**Peak table for sample 5 : C4**

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	280	767.89	4,151.3		67.45
3	286	315.65	1,671.4		67.98
4	306	196.14	972.7		69.69
5	319	841.58	3,992.9		70.81
6	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 5 : C4**

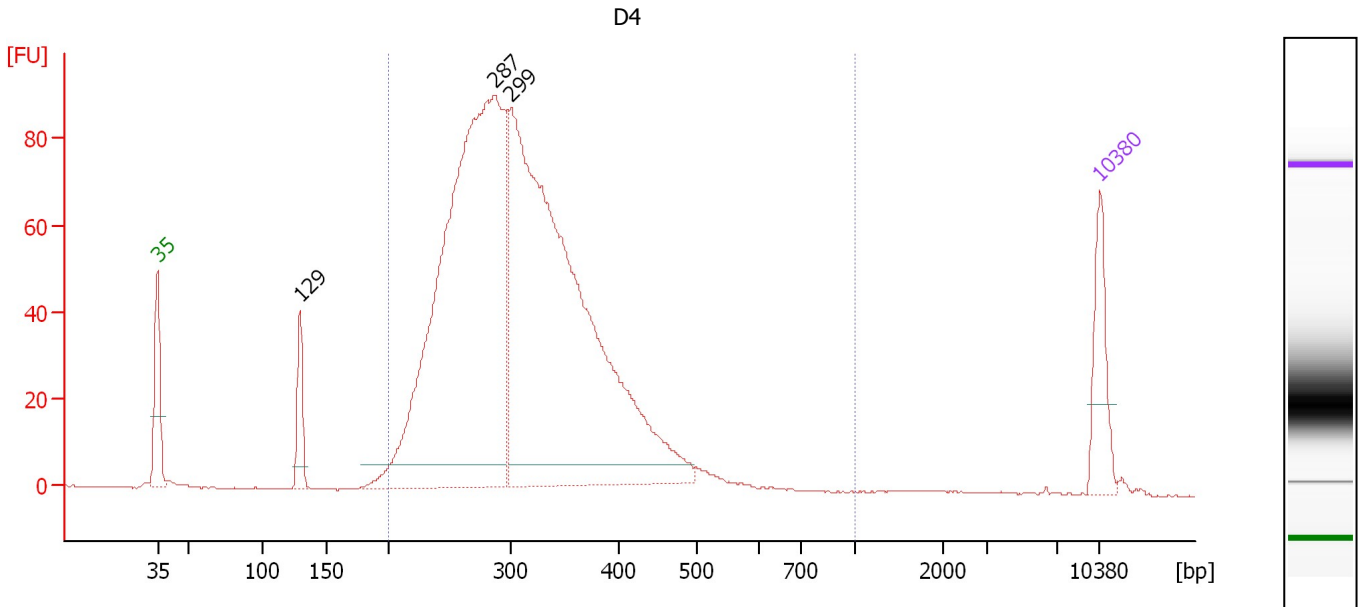
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	344	1,790.5	11,541.2	2,378.13	97	33.8



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

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 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : D4**

Number of peaks found: 3                      Corr. Area 1: 1,481.4  
 Noise: 0.1

**Peak table for sample 6 : D4**

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	129	79.75	933.3		53.59
3	287	1,365.78	7,210.8		68.06
4	299	1,409.00	7,128.7		69.20
5	10,380	75.00	10.9	Upper Marker	113.00

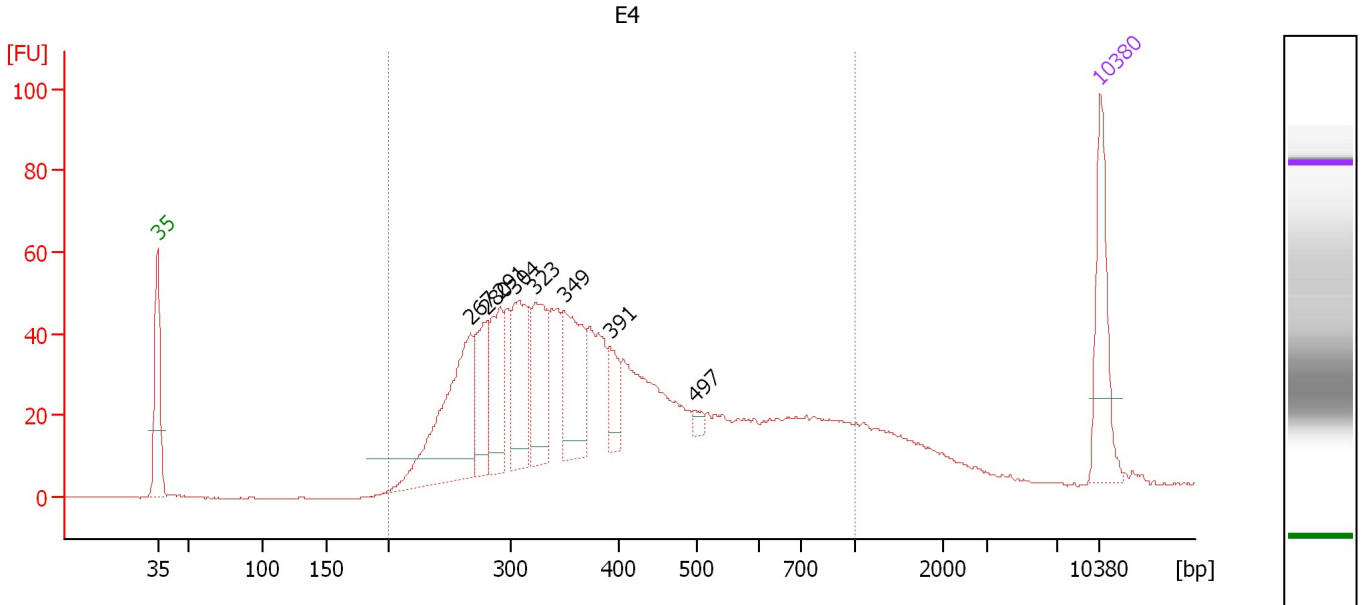
**Region table for sample 6 : D4**

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	315	1,481.4	14,222.0	2,814.19	96	21.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : E4**

Number of peaks found: 8                      Corr. Area 1: 1,191.3  
 Noise: 0.1

**Peak table for sample 7 : E4**

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	267	222.58	1,262.4		66.26
3	280	79.88	432.3		67.42
4	291	97.23	506.4		68.42
5	304	115.92	577.4		69.58
6	323	99.23	465.9		71.08
7	349	113.00	491.0		73.18
8	391	33.75	130.7		76.62
9	497	8.09	24.6		82.93
10	10,380	75.00	10.9	Upper Marker	113.00

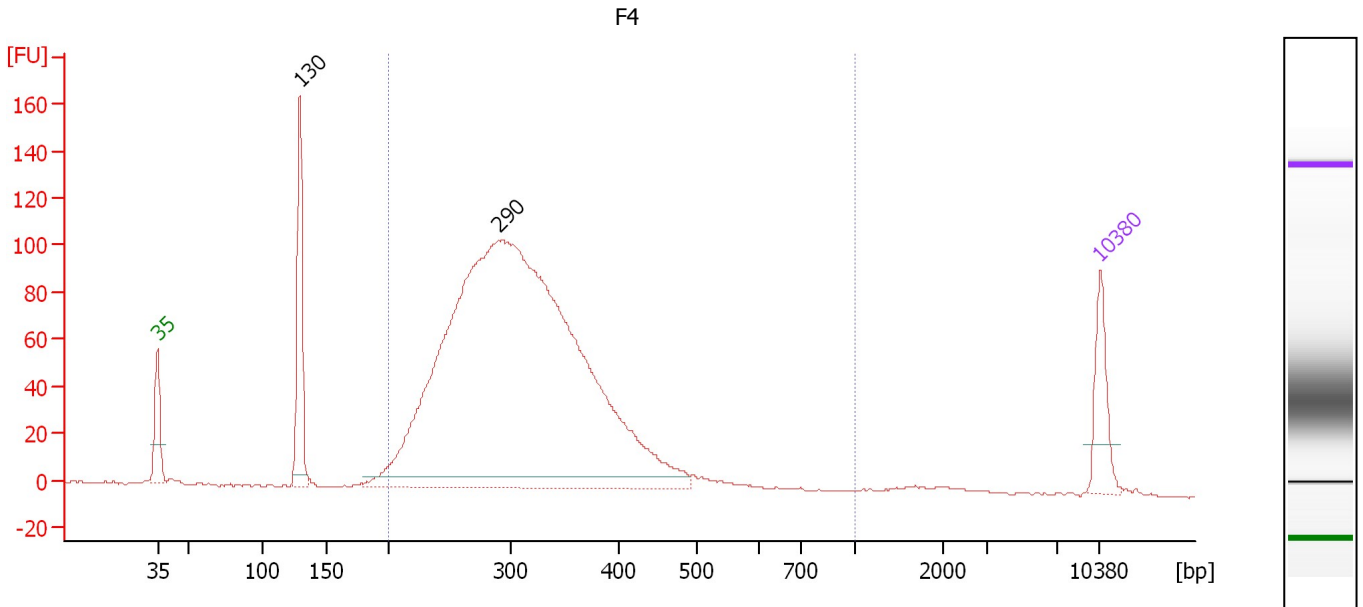
**Region table for sample 7 : E4**

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	417	1,191.3	7,158.0	1,670.13	90	39.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : F4**

Number of peaks found: 2                      Corr. Area 1: 1,709.5  
 Noise: 0.3

**Peak table for sample 8 : F4**

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	130	248.40	2,904.4		53.60
3	290	2,614.44	13,666.4		68.32
4	10,380	75.00	10.9	Upper Marker	113.00

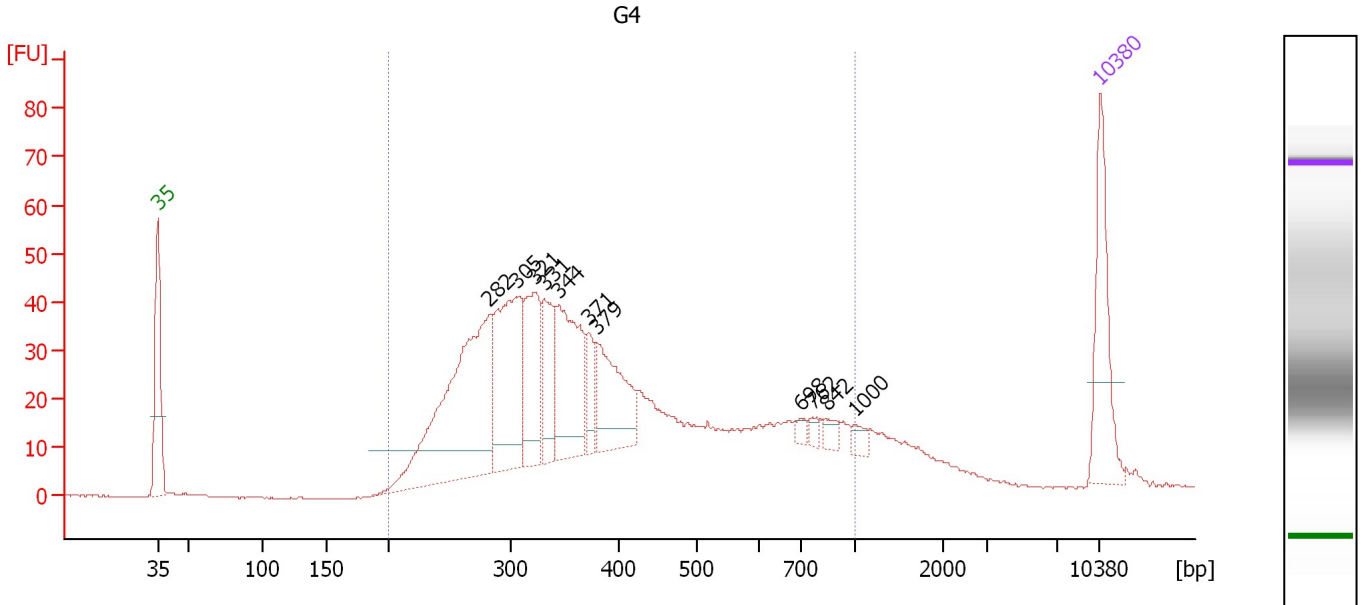
**Region table for sample 8 : F4**

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	313	1,709.5	12,610.9	2,493.94	92	19.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : G4**

Number of peaks found: 11                      Corr. Area 1: 978.4  
 Noise: 0.1

**Peak table for sample 9 : G4**

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	282	309.21	1,658.8		67.65
3	305	177.08	880.6		69.62
4	321	99.31	468.1		70.98
5	331	67.90	311.3		71.71
6	344	131.42	579.2		72.78
7	371	34.67	141.6		74.98
8	379	95.47	381.3		75.66
9	698	6.32	13.7		90.72
10	762	7.05	14.0		91.62
11	842	10.38	18.7		92.69
12	1,000	9.57	14.5		94.84
13	10,380	75.00	10.9	Upper Marker	113.00

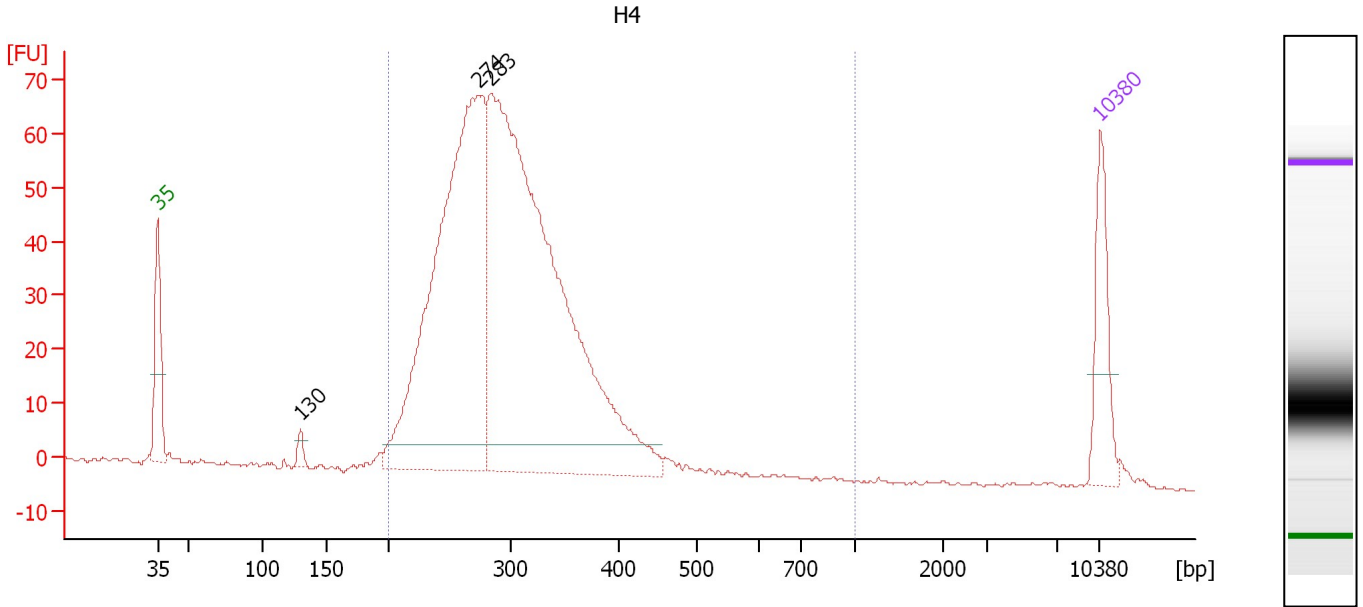
**Region table for sample 9 : G4**

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	413	978.4	6,638.9	1,524.51	89	40.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
 Modified: 9/18/2017 2:04:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : H4**

Number of peaks found: 3                      Corr. Area 1: 978.7  
 Noise: 0.2

**Peak table for sample 10 : H4**

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	130	14.41	168.5		53.60
3	274	863.49	4,774.7		66.88
4	283	1,193.25	6,378.8		67.74
5	10,380	75.00	10.9	Upper Marker	113.00

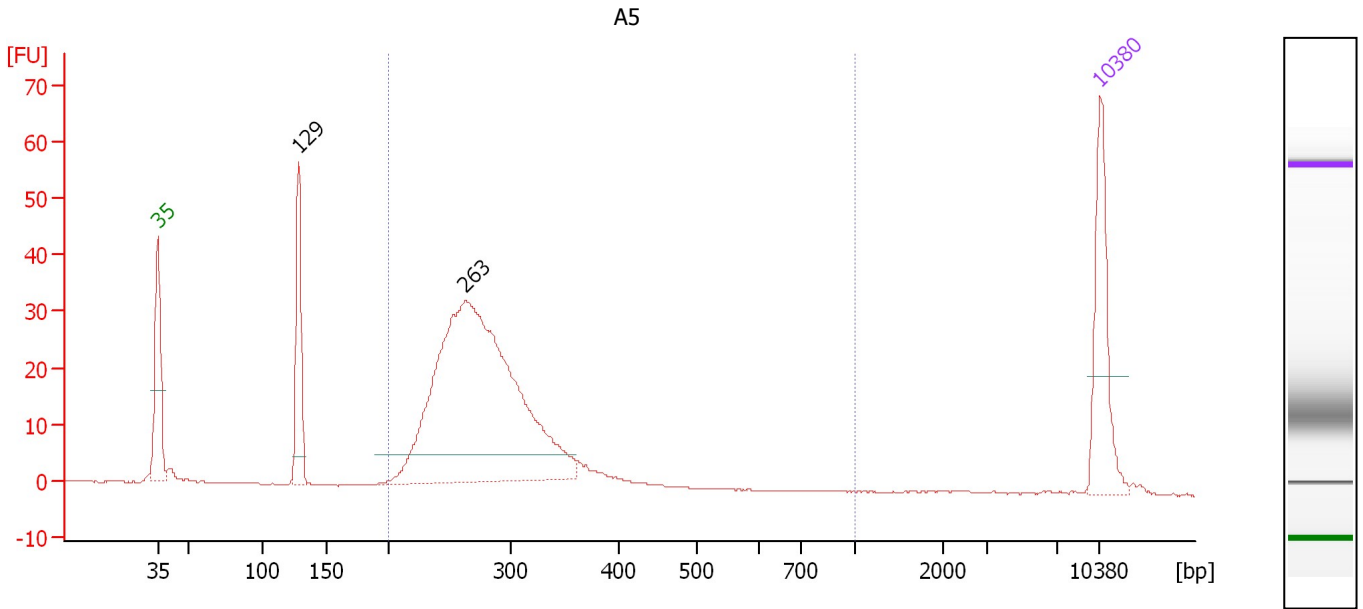
**Region table for sample 10 : H4**

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	297	978.7	10,262.3	1,953.30	99	16.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : A5**

Number of peaks found: 2                      Corr. Area 1: 350.4  
 Noise: 0.1

**Peak table for sample 11 : A5**

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	129	106.60	1,255.6		53.51
3	263	633.75	3,655.6		65.85
4	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : A5**

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	282	350.4	3,689.1	673.04	86	15.1

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-18\2017-09-18\_004.xad

Created: 9/18/2017 1:23:30 PM  
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**Gel Image**

