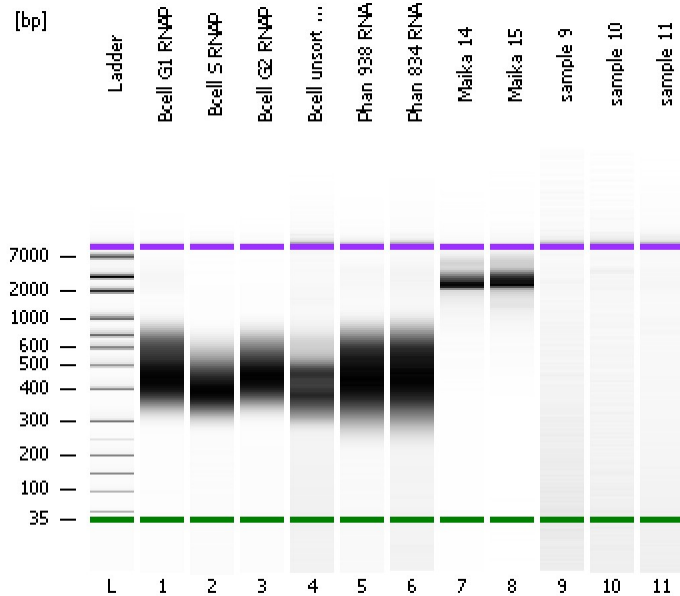


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
Modified: 10/26/2017 4:31:52 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

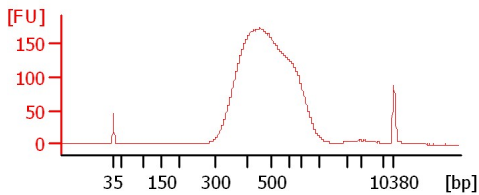
Assay Information:

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

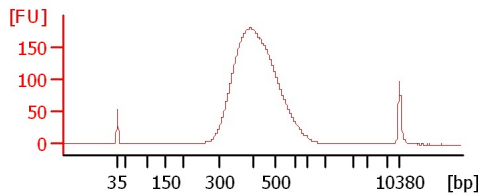
Chip Information:

Chip Lot #:   
Reagent Kit Lot #:   
Chip Comments:

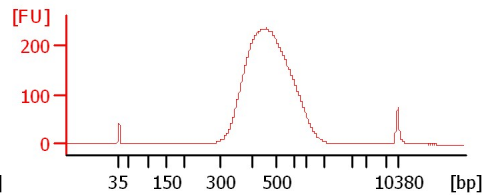
**Bcell G1 RNAP**



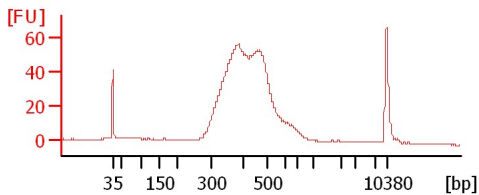
**Bcell S RNAP**



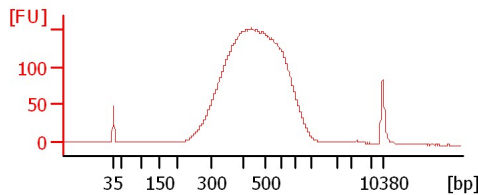
**Bcell G2 RNAP**



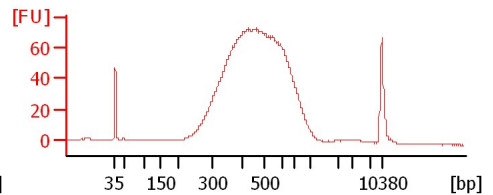
**Bcell unsort RNAP**



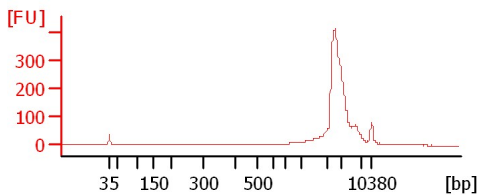
**Phan 938 RNA**



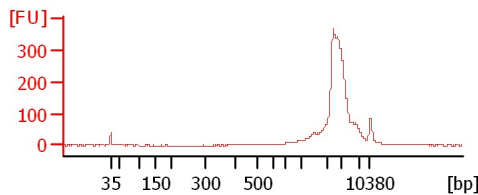
**Phan 834 RNA**



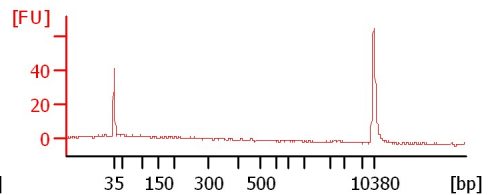
**Maika 14**



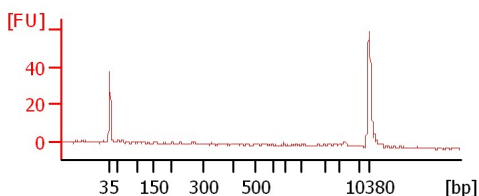
**Maika 15**



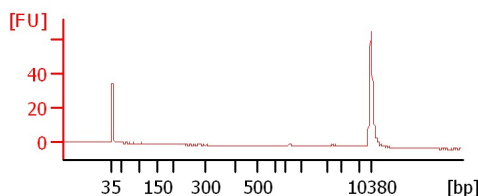
**sample 9**



**sample 10**



**sample 11**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Bcell G1 RNAP		<input type="checkbox"/>	✓			
Bcell S RNAP		<input type="checkbox"/>	✓			
Bcell G2 RNAP		<input type="checkbox"/>	✓			
Bcell unsort RNAP		<input type="checkbox"/>	✓			
Phan 938 RNA		<input type="checkbox"/>	✓			
Phan 834 RNA		<input type="checkbox"/>	✓			
Maika 14		<input type="checkbox"/>	✓			
Maika 15		<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\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
Modified: 10/26/2017 4:31:52 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

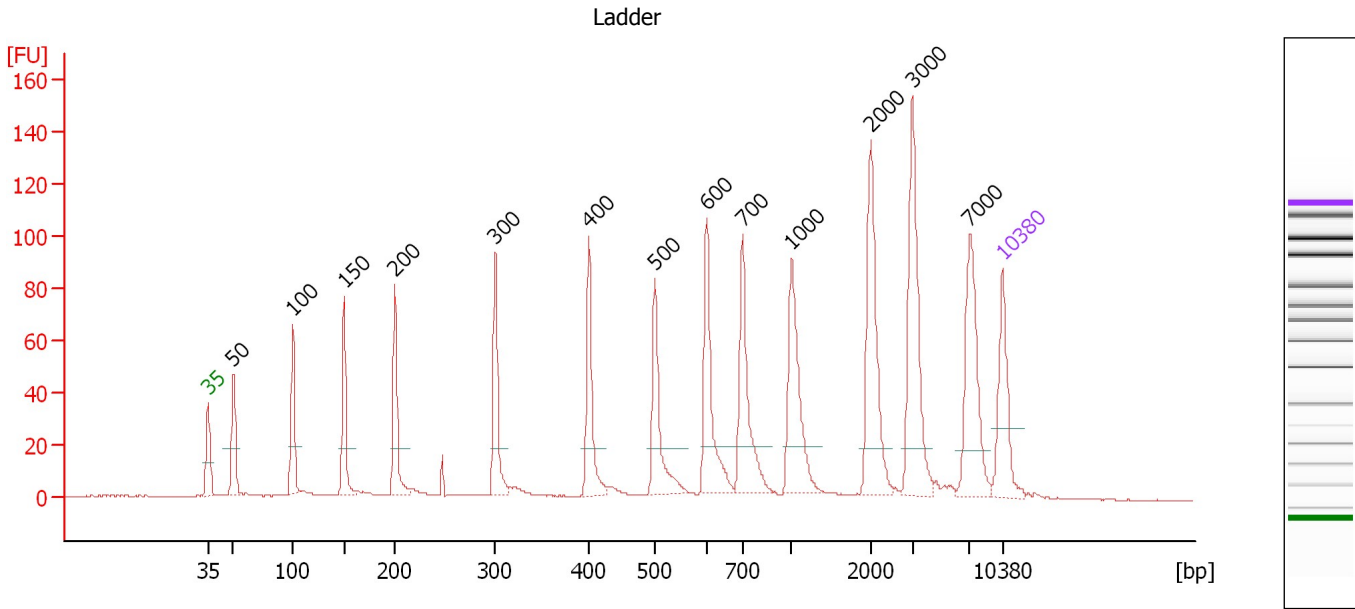
**Ladder**

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\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

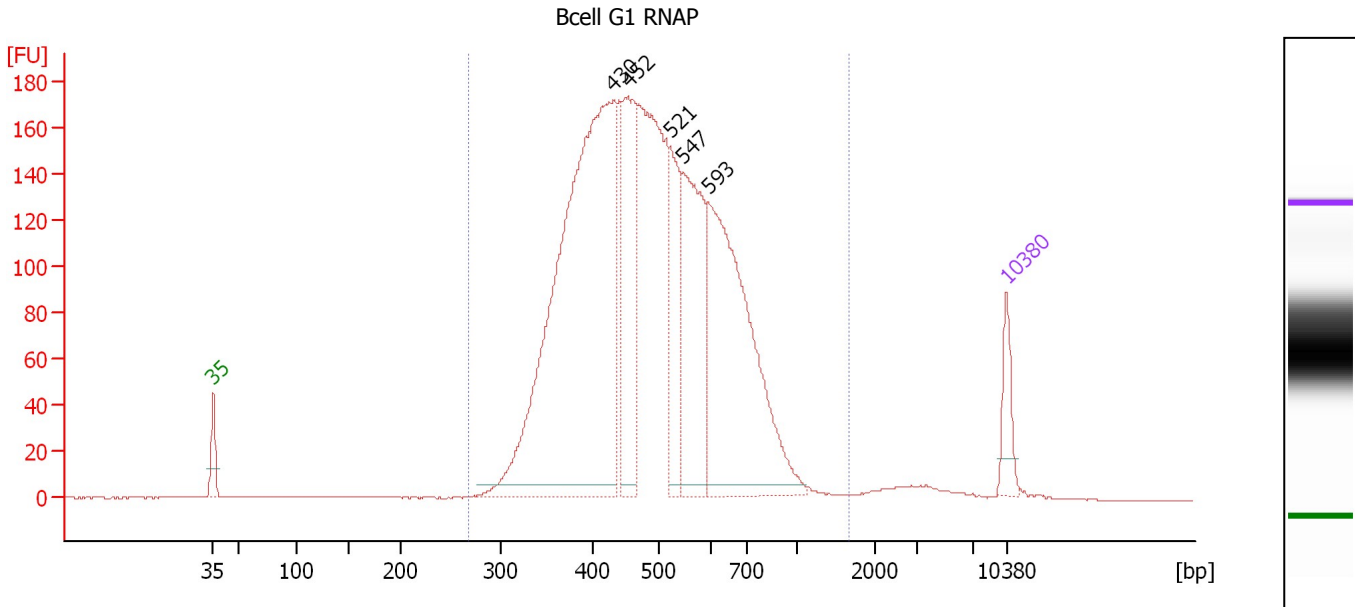
**Peak table for Ladder**

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	45.21
3	100	150.00	2,272.7	Ladder Peak	50.43
4	150	150.00	1,515.2	Ladder Peak	54.99
5	200	150.00	1,136.4	Ladder Peak	59.45
6	300	150.00	757.6	Ladder Peak	68.29
7	400	150.00	568.2	Ladder Peak	76.57
8	500	150.00	454.5	Ladder Peak	82.35
9	600	150.00	378.8	Ladder Peak	86.96
10	700	150.00	324.7	Ladder Peak	90.11
11	1,000	150.00	227.3	Ladder Peak	94.43
12	2,000	150.00	113.6	Ladder Peak	101.39
13	3,000	150.00	75.8	Ladder Peak	105.06
14	7,000	150.00	32.5	Ladder Peak	110.13
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Bcell G1 RNAP**

Number of peaks found: 5                      Corr. Area 1: 3,488.9  
 Noise: 0.2

**Peak table for sample 1 : Bcell G1 RNAP**

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	430	2,014.99	7,091.9		78.33
3	452	447.82	1,499.6		79.60
4	521	278.09	808.7		83.32
5	547	538.80	1,493.8		84.49
6	593	936.49	2,390.8		86.66
7	10,380	75.00	10.9	Upper Marker	113.00

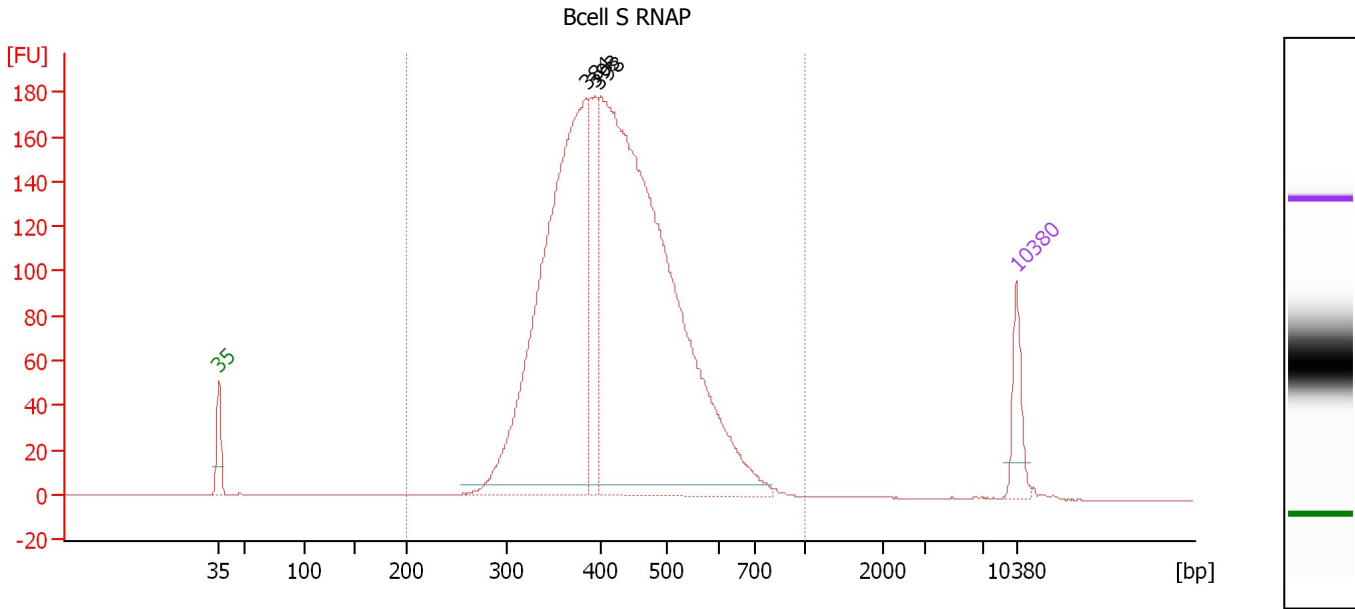
**Region table for sample 1 : Bcell G1 RNAP**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
268	1,671	503	3,488.9	17,804.0	5,464.83	98	27.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Bcell S RNAP**

Number of peaks found: 3                      Corr. Area 1: 2,955.4  
 Noise: 0.2

**Peak table for sample 2 : Bcell S RNAP**

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	384	1,545.45	6,103.3		75.21
3	393	275.71	1,062.2		76.01
4	398	2,324.64	8,841.4		76.43
5	10,380	75.00	10.9	Upper Marker	113.00

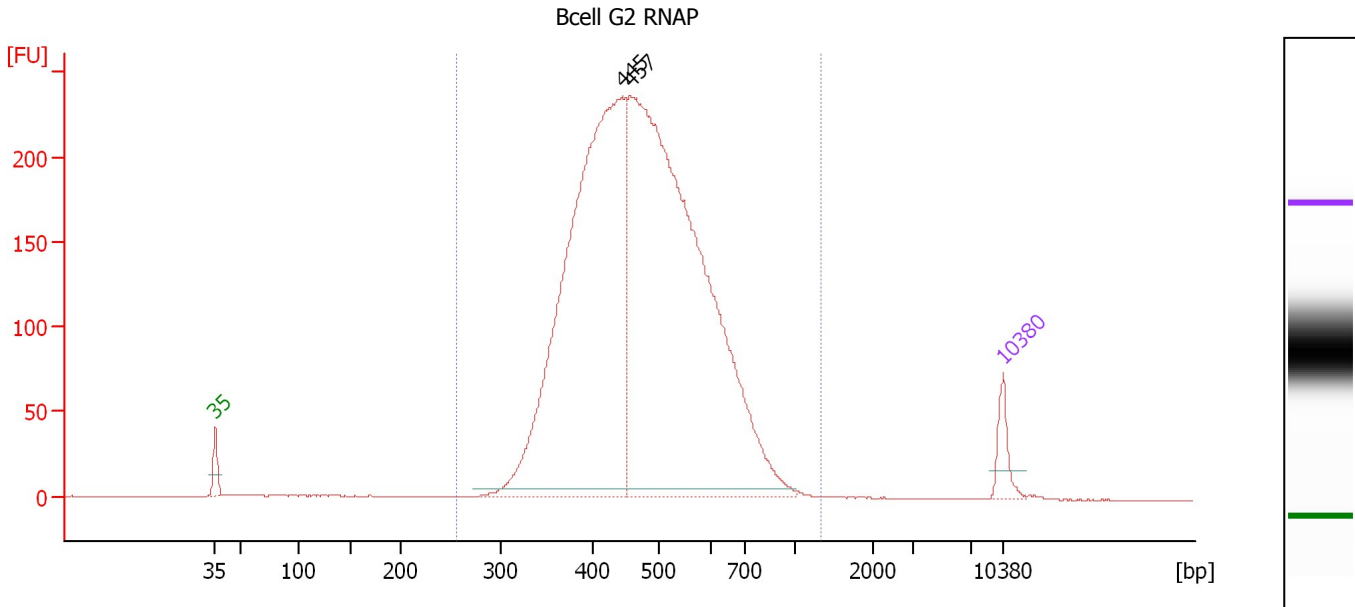
**Region table for sample 2 : Bcell S RNAP**

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	428	2,955.4	15,566.8	4,195.97	98	19.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Bcell G2 RNAP**

Number of peaks found: 2                      Corr. Area 1: 4,048.3  
 Noise: 0.1

**Peak table for sample 3 : Bcell G2 RNAP**

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	445	2,935.98	9,990.4		79.18
3	457	3,710.81	12,309.9		79.85
4	10,380	75.00	10.9	Upper Marker	113.00

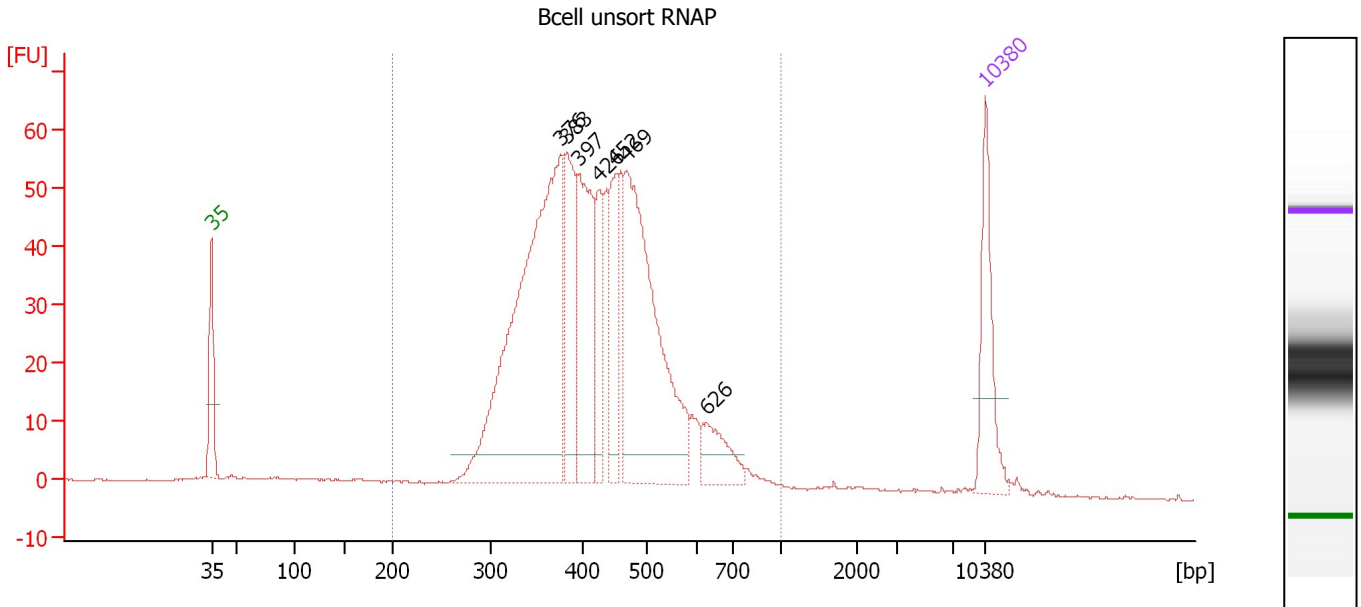
**Region table for sample 3 : Bcell G2 RNAP**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
257	1,347	484	4,048.3	21,940.9	6,629.45	99	22.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Bcell unsort RNAP**

Number of peaks found: 7                      Corr. Area 1: 1,028.6  
 Noise: 0.1

**Peak table for sample 4 : Bcell unsort RNAP**

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	376	592.23	2,388.8		74.55
3	383	142.59	564.6		75.13
4	397	181.08	691.7		76.29
5	426	70.98	252.4		78.07
6	452	93.78	314.4		79.57
7	469	375.47	1,214.0		80.53
8	626	50.56	122.4		87.77
9	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : Bcell unsort RNAP**

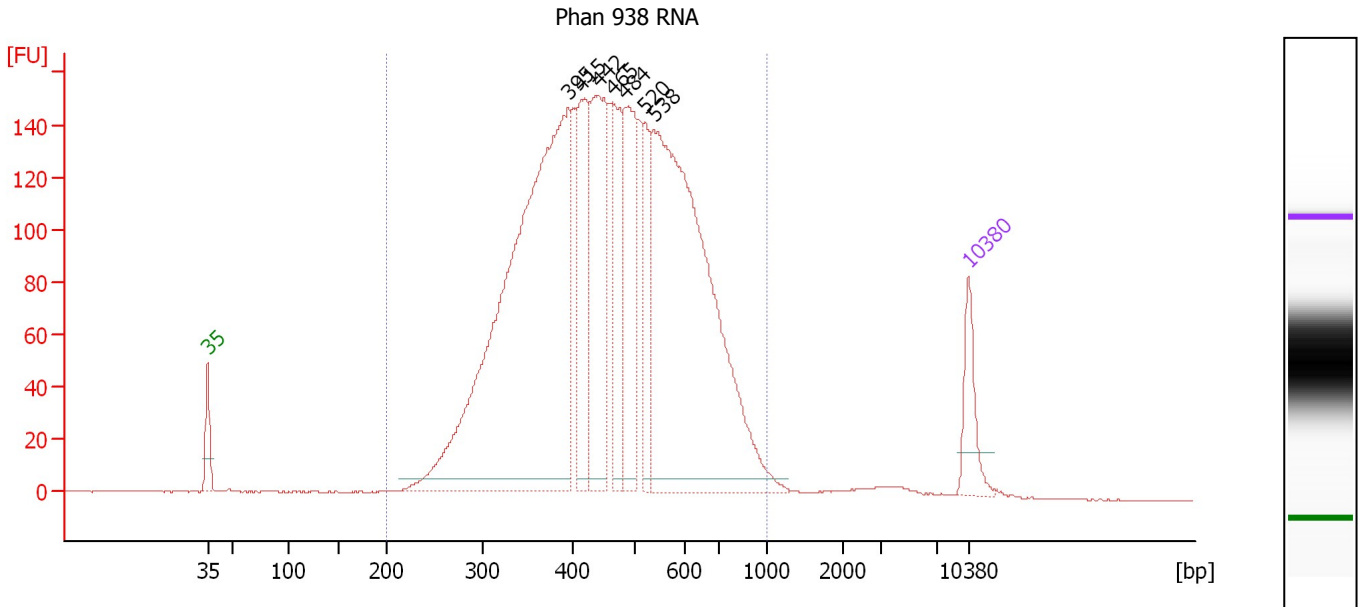
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	431	1,028.6	6,568.6	1,759.01	95	22.8



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Phan 938 RNA**

Number of peaks found: 7                      Corr. Area 1: 3,673.8  
 Noise: 0.1

**Peak table for sample 5 : Phan 938 RNA**

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	395	1,610.51	6,171.7		76.18
3	415	281.20	1,027.6		77.41
4	442	393.52	1,349.7		78.98
5	465	200.41	653.4		80.31
6	484	304.62	953.2		81.44
7	520	159.53	465.2		83.25
8	538	1,216.54	3,427.8		84.09
9	10,380	75.00	10.9	Upper Marker	113.00

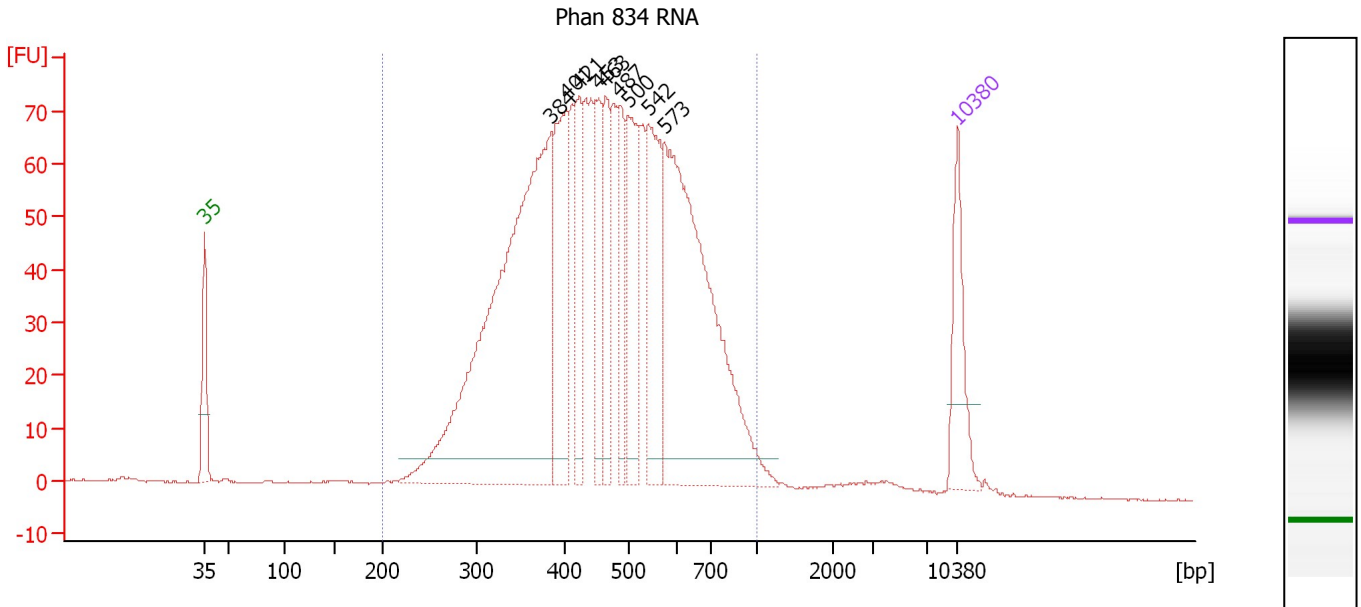
**Region table for sample 5 : Phan 938 RNA**

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	473	3,673.8	16,572.5	4,683.97	98	27.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Phan 834 RNA**

Number of peaks found: 9                      Corr. Area 1: 1,826.9  
 Noise: 0.1

**Peak table for sample 6 : Phan 834 RNA**

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	384	842.95	3,328.0		75.22
3	401	208.44	788.0		76.61
4	421	107.87	387.9		77.80
5	453	91.16	304.8		79.64
6	463	111.00	362.9		80.23
7	487	93.57	291.4		81.57
8	500	167.41	507.0		82.36
9	542	180.32	503.8		84.30
10	573	560.20	1,480.1		85.73
11	10,380	75.00	10.9	Upper Marker	113.00

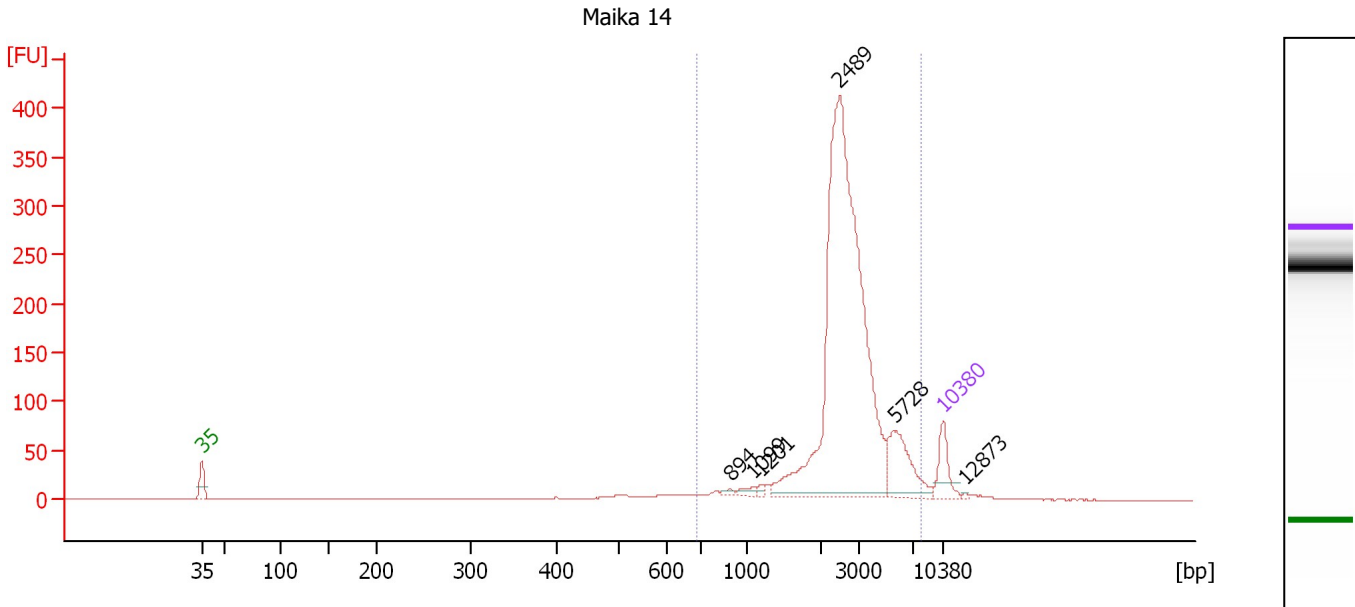
**Region table for sample 6 : Phan 834 RNA**

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	478	1,826.9	10,273.7	2,913.66	97	28.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Maika 14**

Number of peaks found: 6                      Corr. Area 1: 1,727.6  
 Noise: 0.1

**Peak table for sample 7 : Maika 14**

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	894	9.27	15.7		92.91
3	1,099	16.51	22.7		95.12
4	1,201	9.38	11.8		95.83
5	2,489	1,559.76	949.6		103.18
6	5,728	175.51	46.4		108.52
7	10,380	75.00	10.9	Upper Marker	113.00
8	12,873	0.00	0.0		115.12

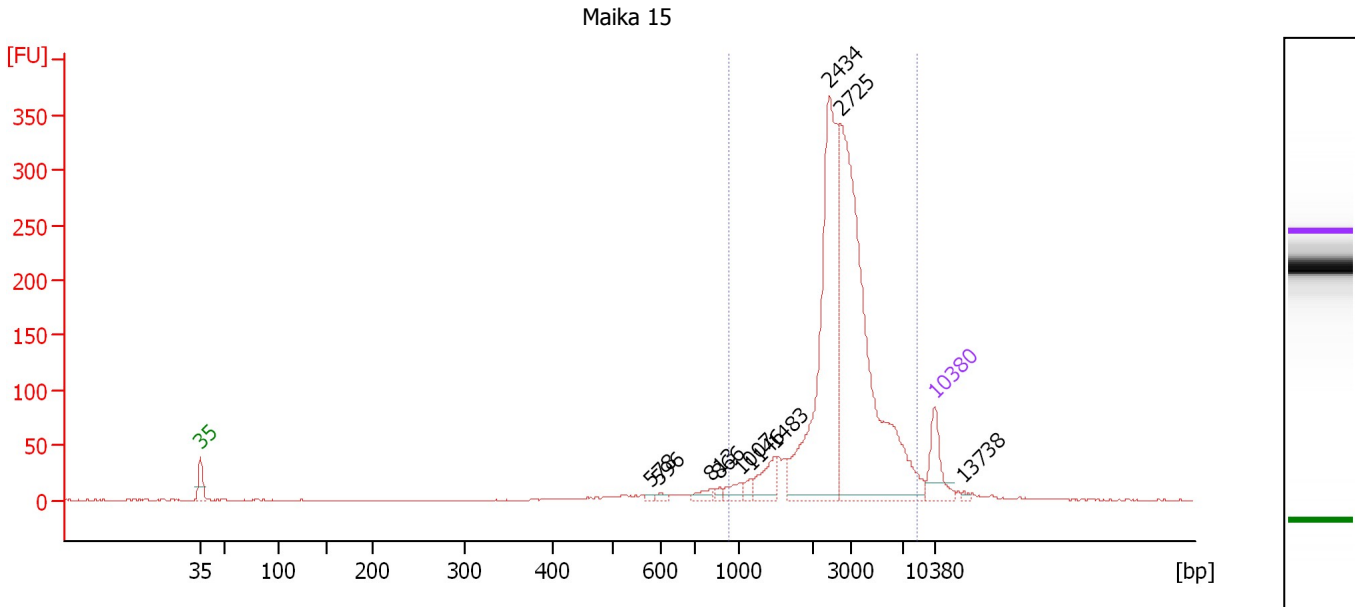
**Region table for sample 7 : Maika 14**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
688	7,924	2,973	1,727.6	1,111.8	1,864.43	93	42.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Maika 15**

Number of peaks found: 10                      Corr. Area 1: 1,806.9  
 Noise: 0.4

**Peak table for sample 8 : Maika 15**

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	578	5.19	13.6		85.94
3	596	9.05	23.0		86.75
4	813	19.29	35.9		91.74
5	866	8.67	15.2		92.50
6	1,007	26.19	39.4		94.48
7	1,146	15.39	20.3		95.45
8	1,483	60.99	62.3		97.79
9	2,434	624.83	389.0		102.98
10	2,725	912.31	507.3		104.05
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,738	0.00	0.0		115.85

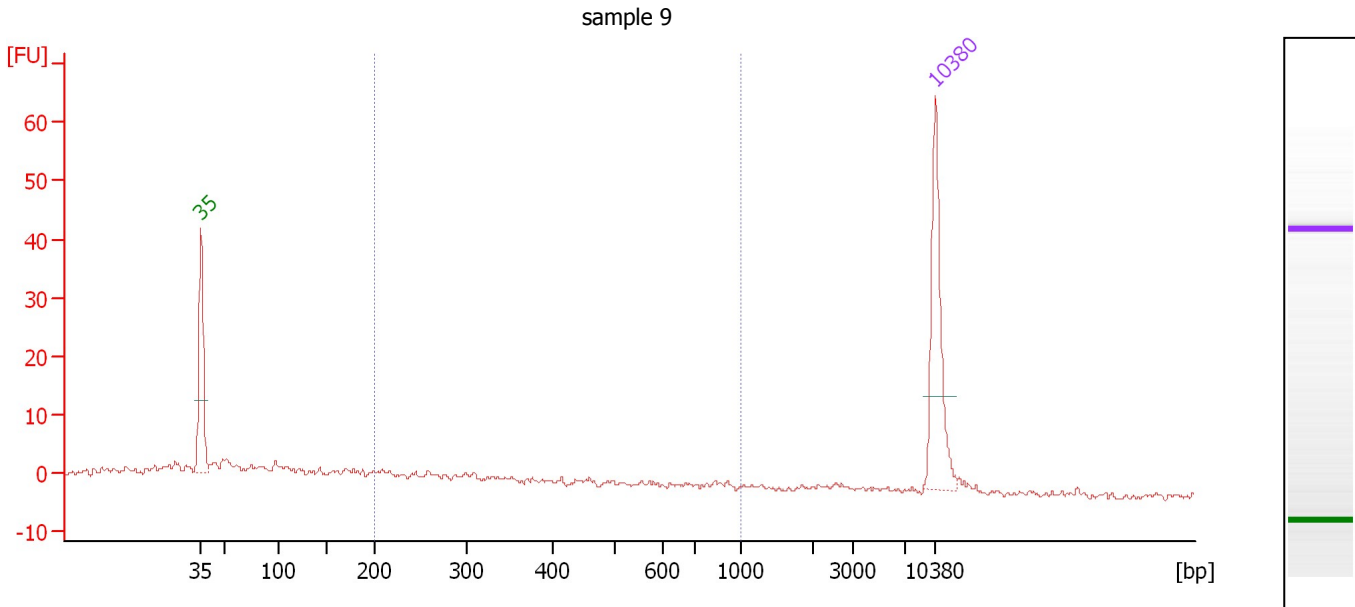
**Region table for sample 8 : Maika 15**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
927	8,442	3,118	1,806.9	933.0	1,656.58	93	43.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 20.8  
 Noise: 0.5

**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	10,380	75.00	10.9	Upper Marker	113.00

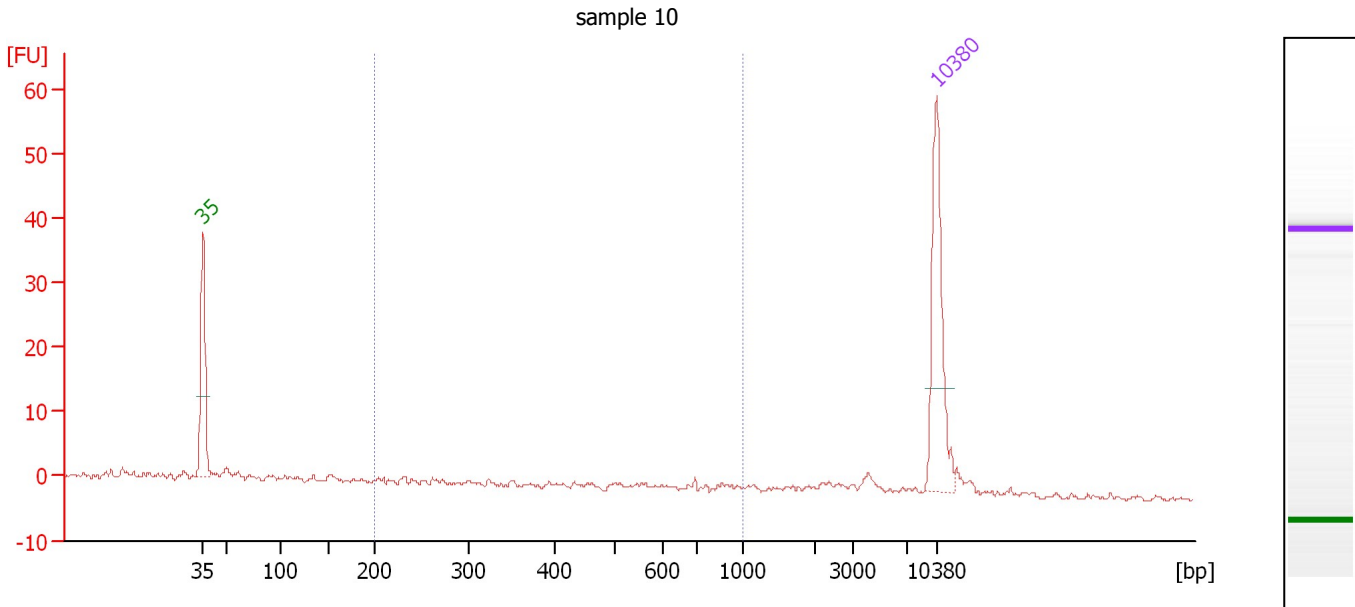
**Region table for sample 9 : sample 9**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	355	20.8	213.6	41.18	24	48.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
 Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 10.1  
 Noise: 0.4

**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	10,380	75.00	10.9	Upper Marker	113.00

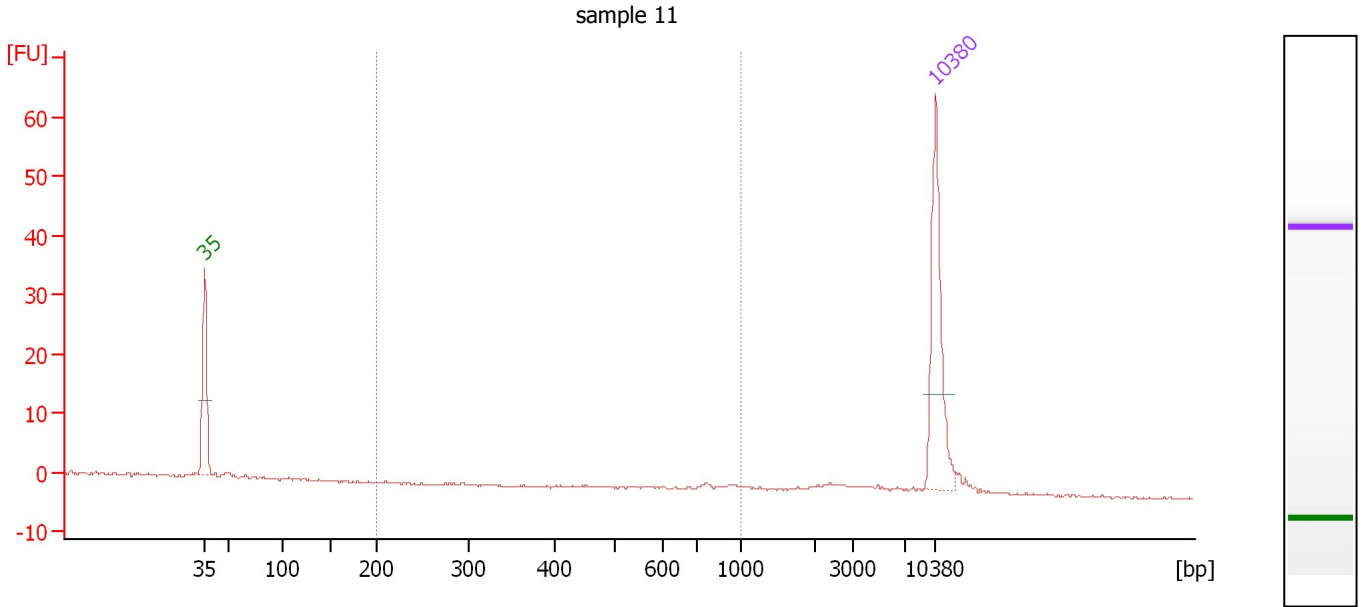
**Region table for sample 10 : sample 10**

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	510	10.1	76.7	18.87	23	44.5

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
Modified: 10/26/2017 4:31:52 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 1.5  
Noise: 0.1

**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	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. lor [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	861	1.5	4.2	2.40	7	10.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-26\2017-10-26\_002.xad

Created: 10/26/2017 3:49:41 PM  
Modified: 10/26/2017 4:31:52 PM

**Gel Image**

