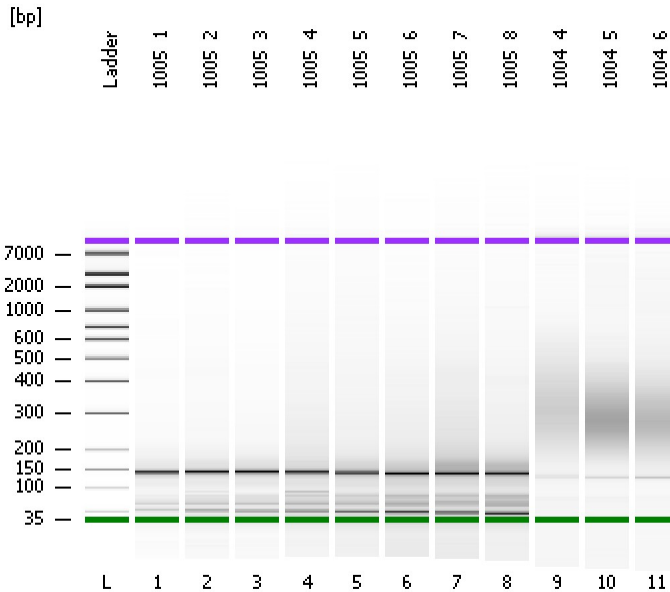


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
Modified: 10/9/2017 2:46:26 PM

Electrophoresis File Run Summary



Instrument Information:

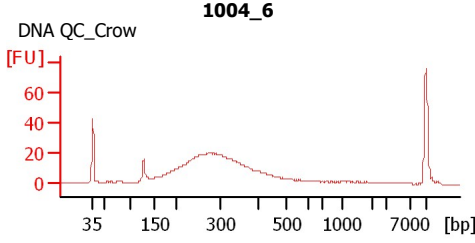
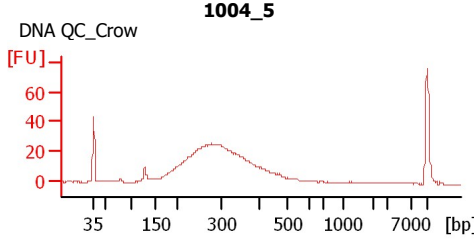
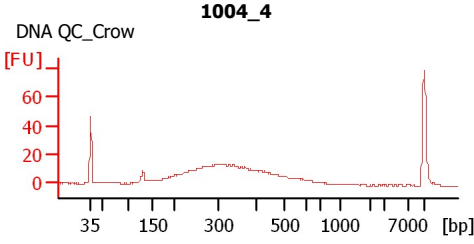
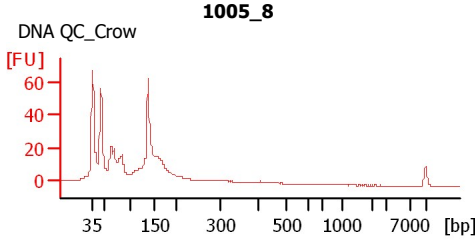
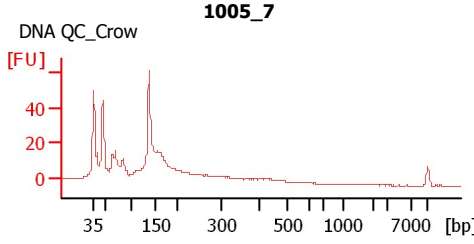
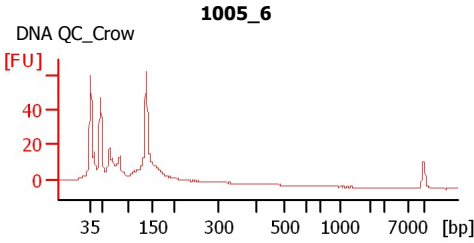
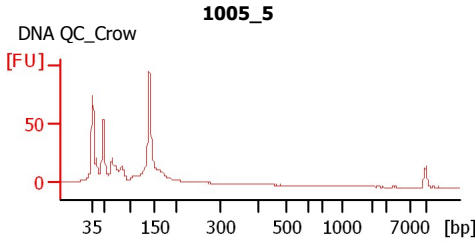
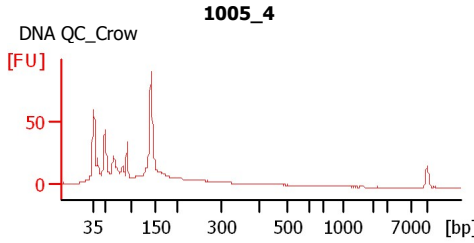
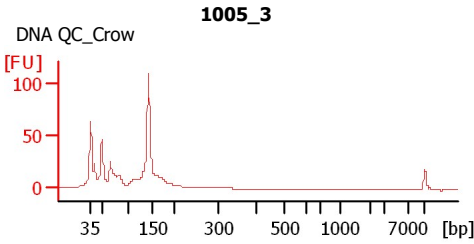
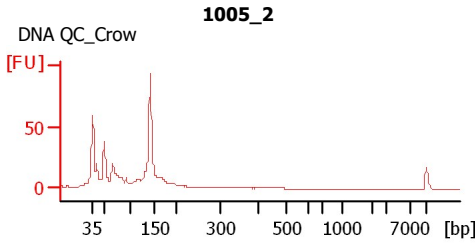
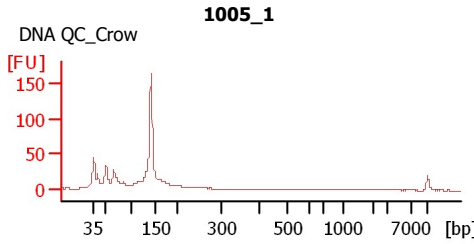
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1005_1	DNA QC_Crow	<input type="checkbox"/>	✓			
1005_2	DNA QC_Crow	<input type="checkbox"/>	✓			
1005_3	DNA QC_Crow	<input type="checkbox"/>	✓			
1005_4	DNA QC_Crow	<input type="checkbox"/>	✓			
1005_5	DNA QC_Crow	<input type="checkbox"/>	✓			
1005_6	DNA QC_Crow	<input type="checkbox"/>	✓			
1005_7	DNA QC_Crow	<input type="checkbox"/>	✓			
1005_8	DNA QC_Crow	<input type="checkbox"/>	✓			
1004_4	DNA QC_Crow	<input type="checkbox"/>	✓			
1004_5	DNA QC_Crow	<input type="checkbox"/>	✓			
1004_6	DNA QC_Crow	<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\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
Modified: 10/9/2017 2:46:26 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

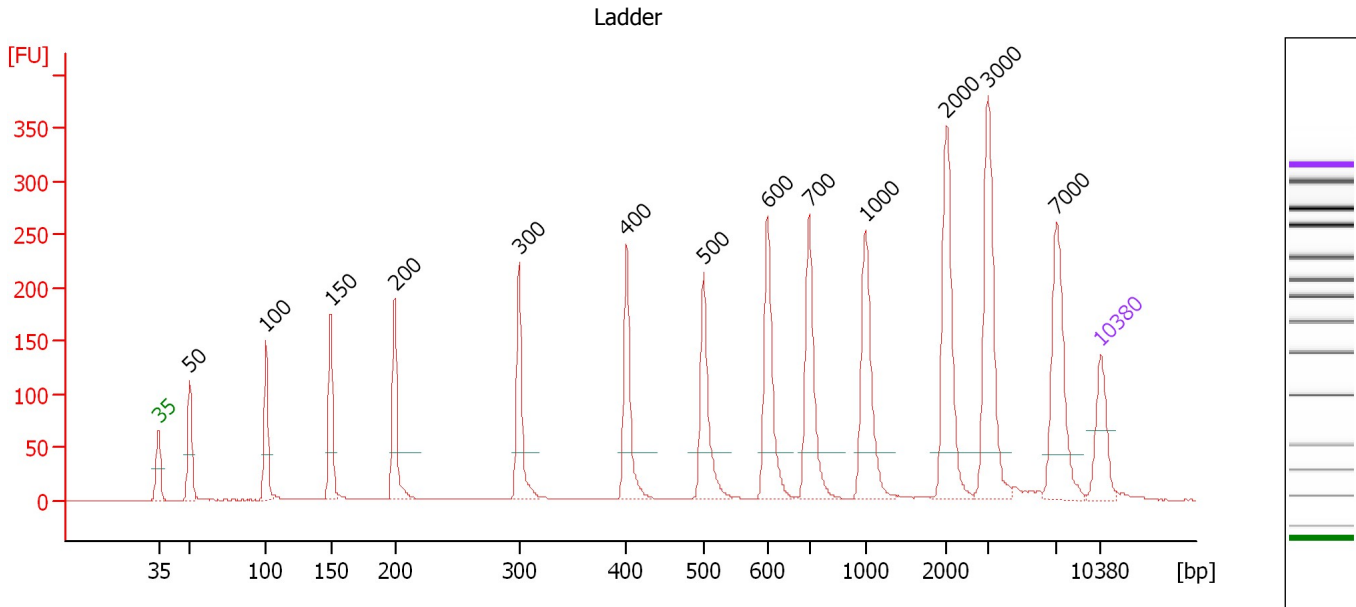
### Ladder

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\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

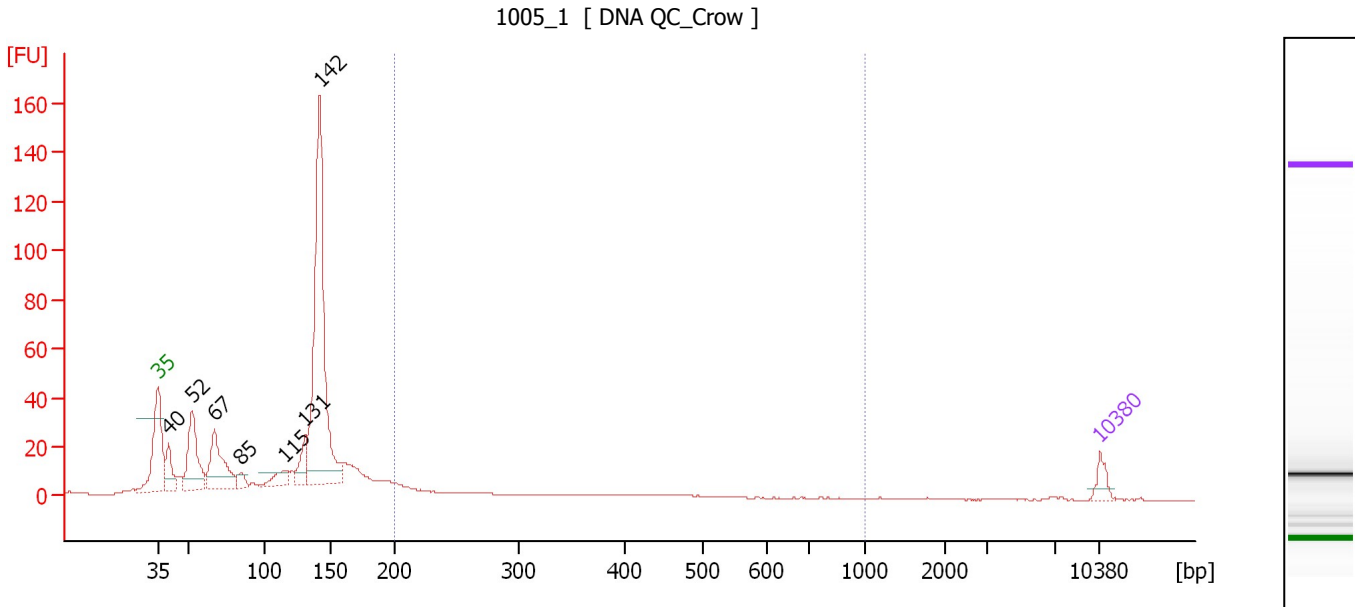
**Peak table for Ladder**

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.97
4	150	150.00	1,515.2	Ladder Peak	55.80
5	200	150.00	1,136.4	Ladder Peak	60.55
6	300	150.00	757.6	Ladder Peak	69.80
7	400	150.00	568.2	Ladder Peak	77.77
8	500	150.00	454.5	Ladder Peak	83.48
9	600	150.00	378.8	Ladder Peak	88.22
10	700	150.00	324.7	Ladder Peak	91.31
11	1,000	150.00	227.3	Ladder Peak	95.50
12	2,000	150.00	113.6	Ladder Peak	101.53
13	3,000	150.00	75.8	Ladder Peak	104.62
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1005\_1**

Number of peaks found: 7                      Corr. Area 1: 64.2  
 Noise: 0.1

**Peak table for sample 1 : 1005\_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	291.86	10,942.9		43.83
3	52	711.43	20,698.6		45.54
4	67	687.57	15,514.7		47.25
5	85	99.61	1,782.7		49.23
6	115	177.71	2,342.3		52.41
7	131	258.05	2,980.6		53.98
8	142	2,692.42	28,697.9		55.04
9	10,380	75.00	10.9	Upper Marker	113.00

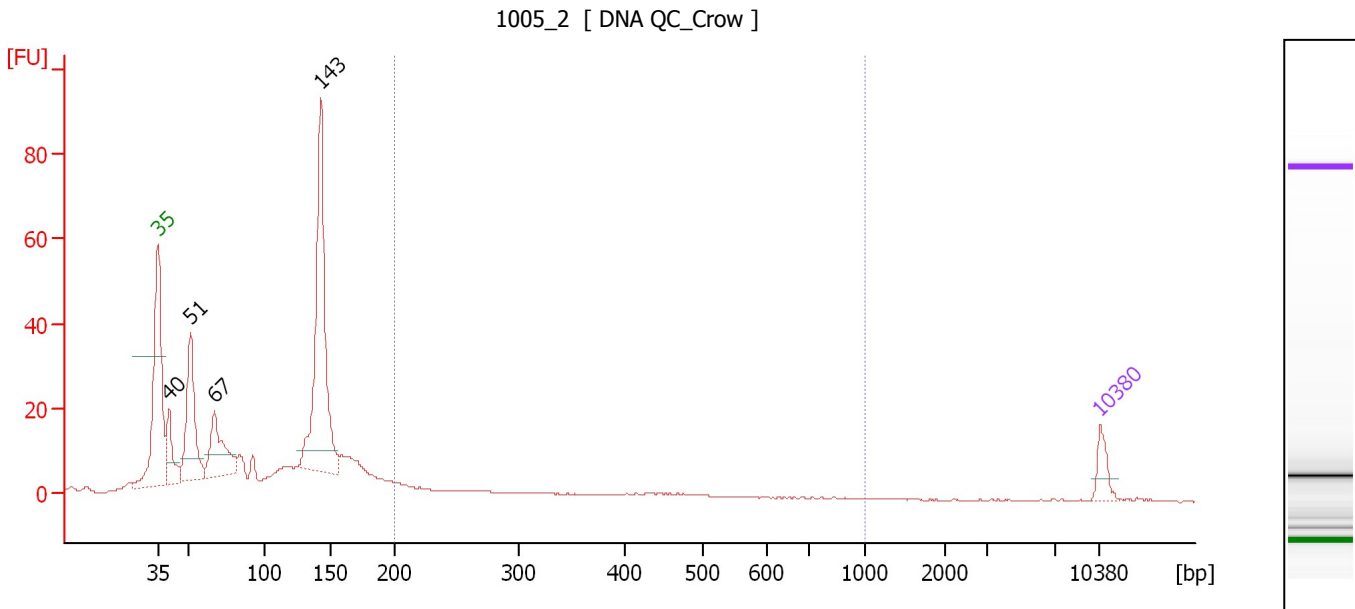
**Region table for sample 1 : 1005\_1**

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	340	64.2	2,942.2	552.41	9	41.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1005\_2**

Number of peaks found: 4                      Corr. Area 1: 36.6  
 Noise: 0.1

**Peak table for sample 2 : 1005\_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	40	286.65	10,731.4		43.84
3	51	695.63	20,627.9		45.43
4	67	469.68	10,661.6		47.20
5	143	1,539.68	16,304.6		55.13
6	10,380	75.00	10.9	Upper Marker	113.00

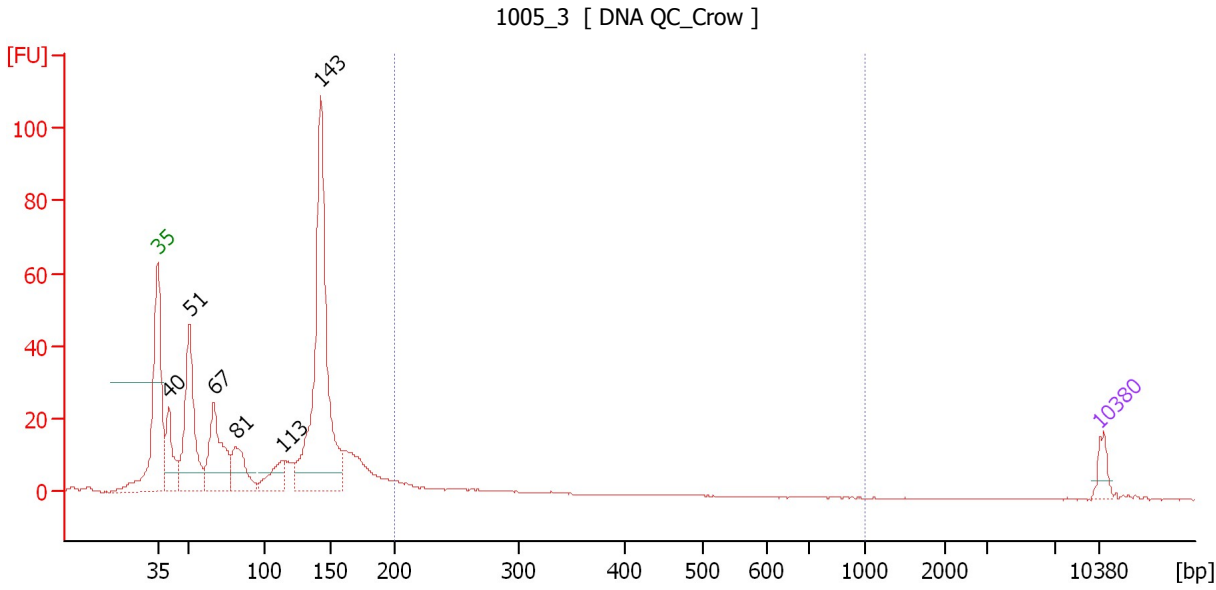
**Region table for sample 2 : 1005\_2**

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	331	36.6	1,788.3	334.40	7	37.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1005\_3**

Number of peaks found: 6                      Corr. Area 1: 32.9  
 Noise: 0.1

**Peak table for sample 3 : 1005\_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	40	420.38	15,861.0		43.79
3	51	1,055.62	31,583.6		45.38
4	67	752.31	17,096.1		47.19
5	81	370.14	6,918.3		48.82
6	113	259.37	3,478.6		52.22
7	143	2,391.49	25,369.3		55.11
8	10,380	75.00	10.9	Upper Marker	113.00

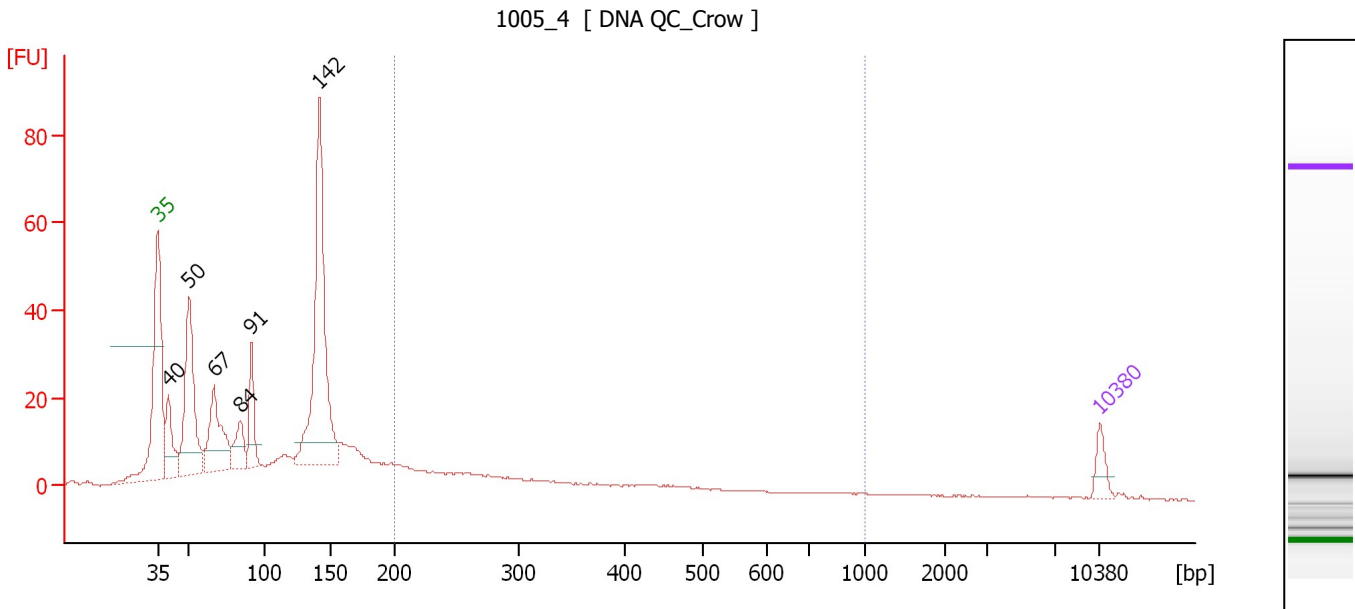
**Region table for sample 3 : 1005\_3**

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	281	32.9	1,804.0	309.29	6	29.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1005\_4**

Number of peaks found: 6                      Corr. Area 1: 106.9  
 Noise: 0.1

**Peak table for sample 4 : 1005\_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	40	349.59	13,148.6		43.81
3	50	952.25	28,676.4		45.34
4	67	613.20	13,921.1		47.20
5	84	224.09	4,041.6		49.16
6	91	312.83	5,199.0		49.97
7	142	1,719.93	18,357.6		55.02
8	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 1005\_4**

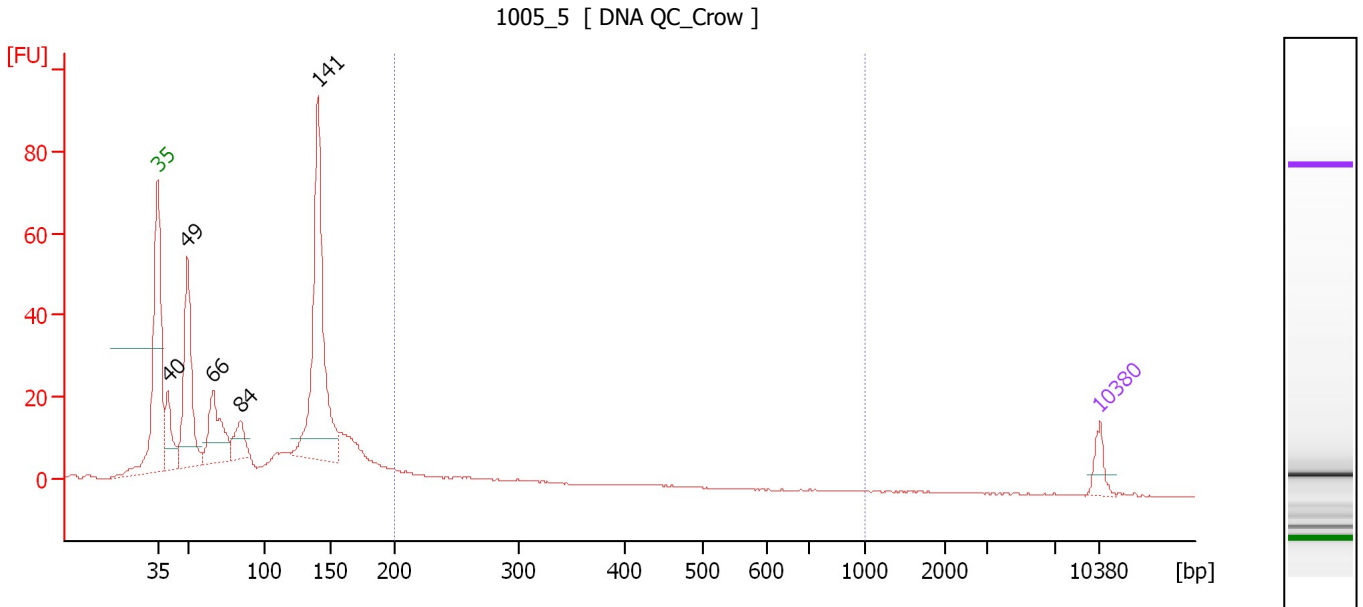
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	345	106.9	5,489.7	1,050.84	17	42.5



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
Modified: 10/9/2017 2:46:26 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : **1005\_5**

Number of peaks found: 5                      Corr. Area 1: 40.6  
Noise: 0.1

Peak table for sample 5 : **1005\_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	40	307.91	11,657.9		43.77
3	49	1,001.63	30,704.5		45.21
4	66	512.24	11,720.1		47.14
5	84	215.90	3,891.1		49.16
6	141	1,688.51	18,198.9		54.89
7	10,380	75.00	10.9	Upper Marker	113.00

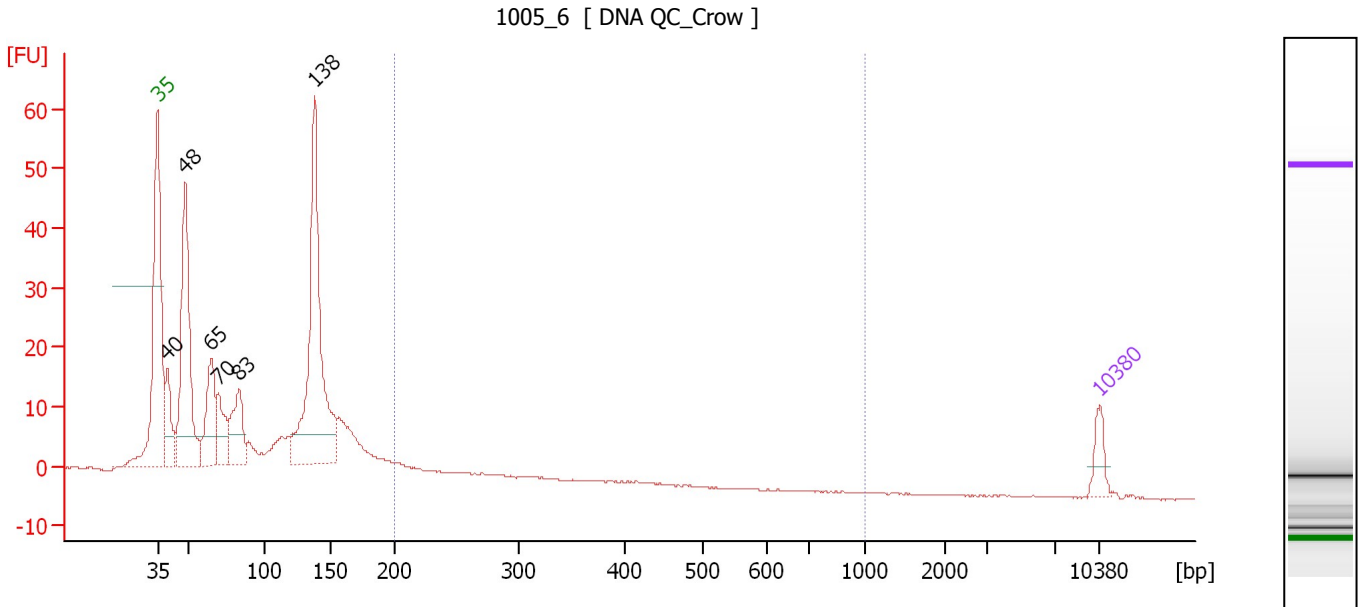
Region table for sample 5 : **1005\_5**

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	302	40.6	2,122.2	378.42	7	36.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 1005\_6**

Number of peaks found: 6                      Corr. Area 1: 17.4  
 Noise: 0.1

**Peak table for sample 6 : 1005\_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	295.94	11,319.0		43.71
3	48	1,149.01	36,068.2		45.04
4	65	427.66	9,992.1		46.98
5	70	247.79	5,398.9		47.52
6	83	355.63	6,475.0		49.07
7	138	1,535.54	16,856.2		54.64
8	10,380	75.00	10.9	Upper Marker	113.00

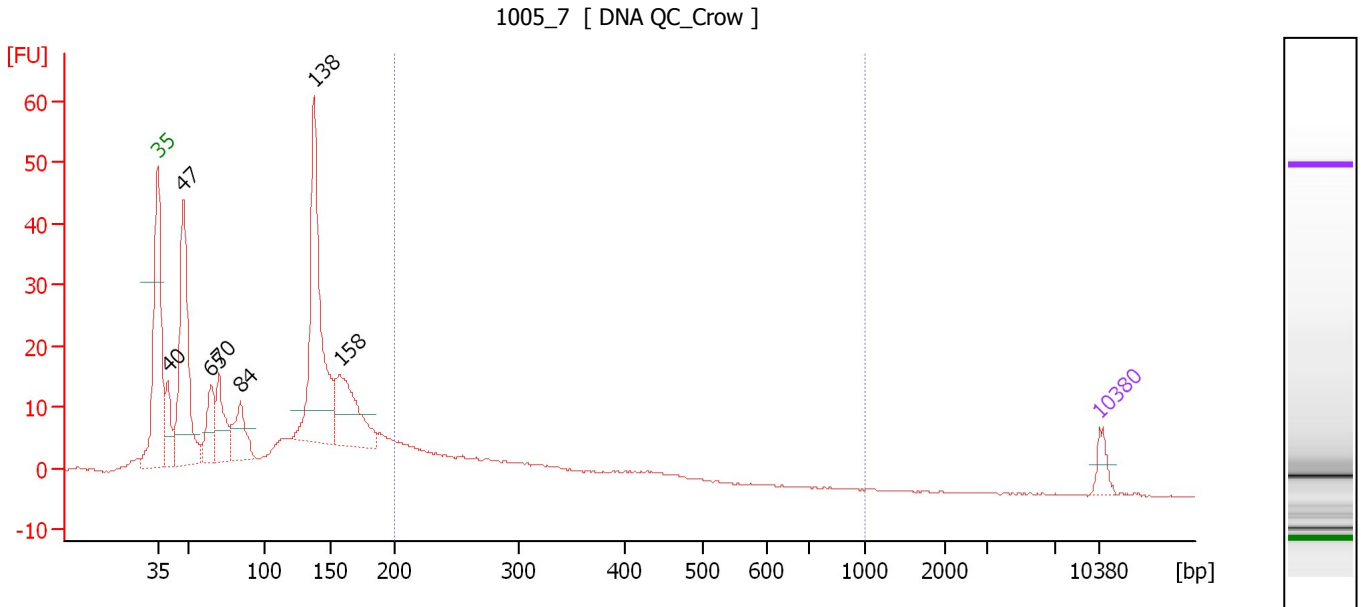
**Region table for sample 6 : 1005\_6**

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	250	17.4	1,147.1	184.81	4	17.8

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 1005\_7**

Number of peaks found: 7                      Corr. Area 1: 96.6  
 Noise: 0.1

**Peak table for sample 7 : 1005\_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	40	319.74	12,159.7		43.74
3	47	1,500.63	47,961.6		44.90
4	65	364.81	8,512.2		46.99
5	70	418.75	9,082.6		47.55
6	84	390.43	7,059.5		49.13
7	138	1,740.27	19,149.6		54.61
8	158	734.11	7,060.9		56.52
9	10,380	75.00	10.9	Upper Marker	113.00

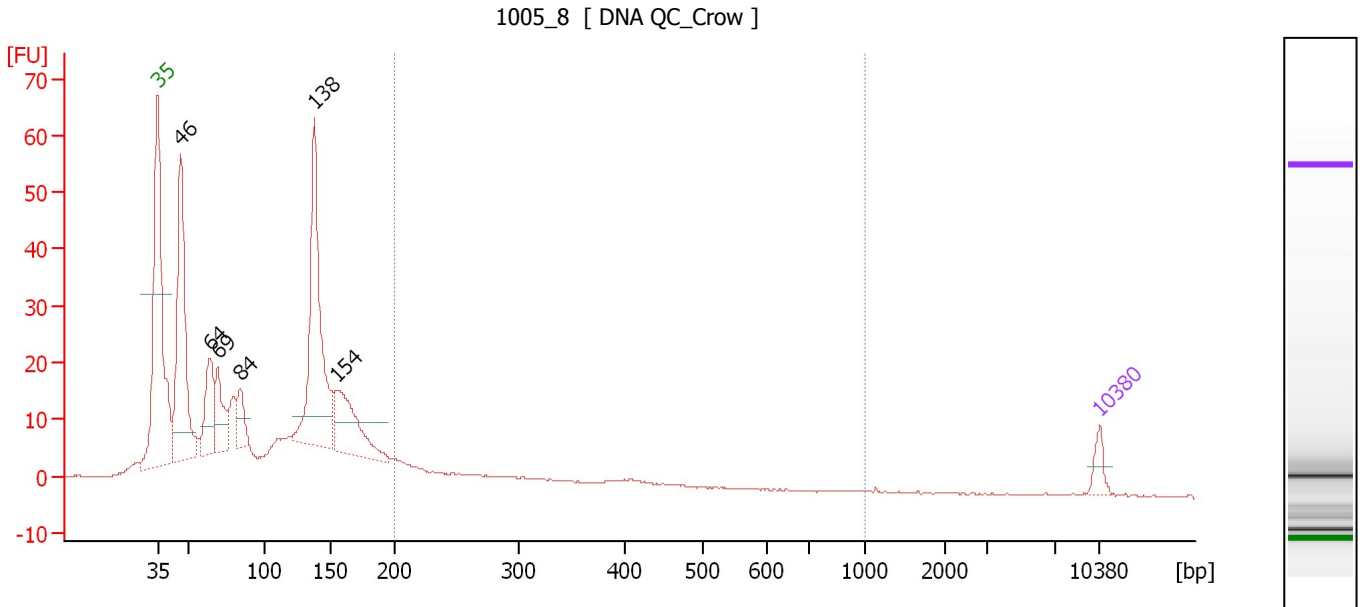
**Region table for sample 7 : 1005\_7**

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	307	96.6	7,552.3	1,388.95	18	29.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 1005\_8**

Number of peaks found: 6                      Corr. Area 1: 45.8  
 Noise: 0.1

**Peak table for sample 8 : 1005\_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	46	1,719.59	56,385.3		44.72
3	64	494.72	11,720.7		46.88
4	69	380.12	8,327.5		47.47
5	84	235.19	4,246.7		49.14
6	138	1,657.53	18,187.4		54.65
7	154	714.68	7,011.7		56.22
8	10,380	75.00	10.9	Upper Marker	113.00

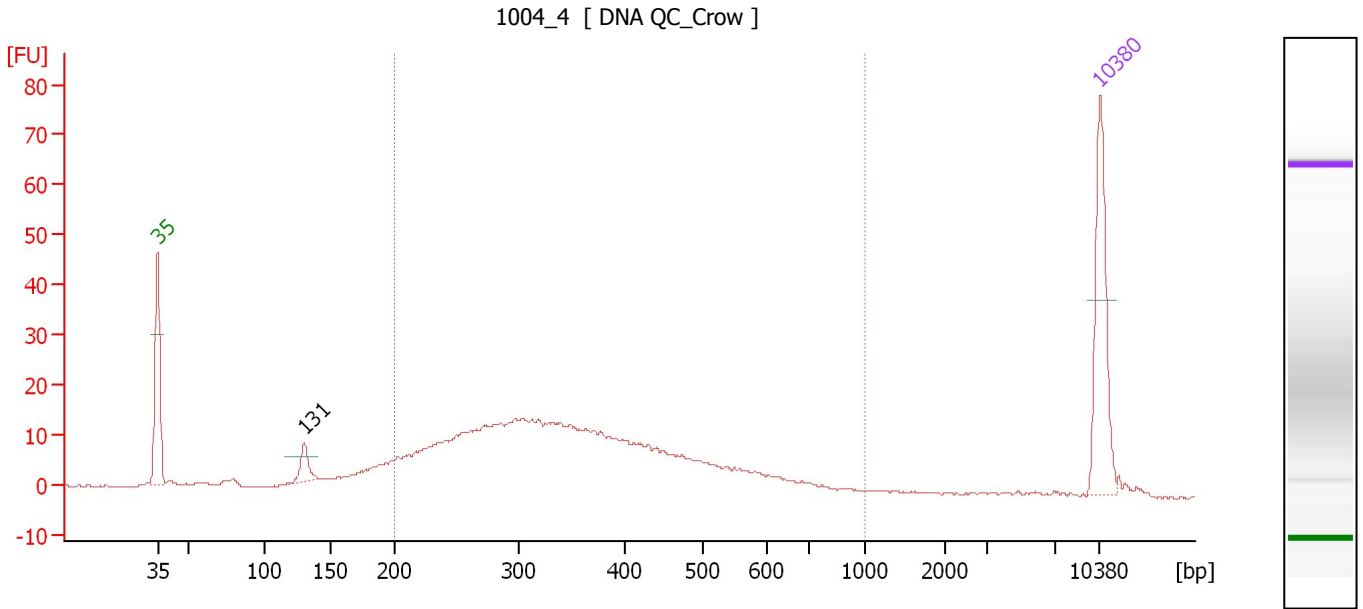
**Region table for sample 8 : 1005\_8**

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	294	45.8	3,723.4	663.10	9	28.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 1004\_4**

Number of peaks found: 1                      Corr. Area 1: 385.7  
 Noise: 0.2

**Peak table for sample 9 : 1004\_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	131	23.76	275.7		53.93
3	10,380	75.00	10.9	Upper Marker	113.00

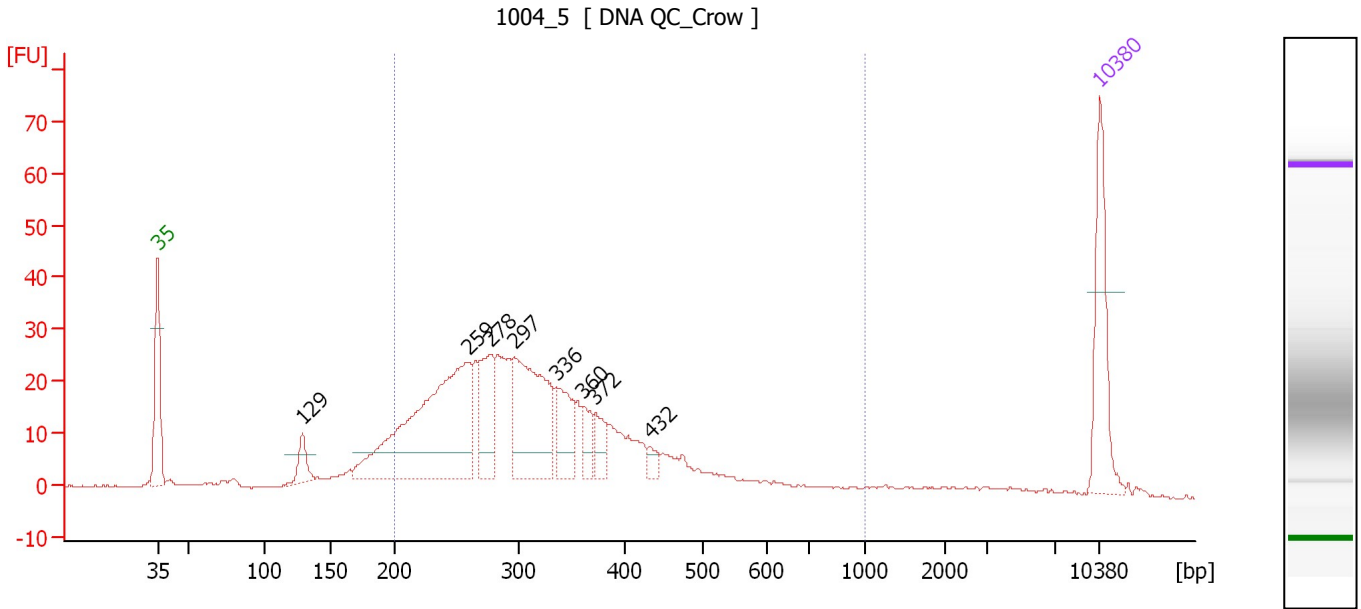
**Region table for sample 9 : 1004\_4**

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	368	385.7	3,215.6	684.80	83	34.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 1004\_5**

Number of peaks found: 8                      Corr. Area 1: 569.3  
 Noise: 0.1

**Peak table for sample 10 : 1004\_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	129	28.22	331.7		53.76
3	259	336.59	1,966.4		66.04
4	278	74.28	405.1		67.75
5	297	180.53	921.4		69.51
6	336	54.19	244.2		72.69
7	360	24.00	101.0		74.60
8	372	26.04	106.1		75.53
9	432	11.09	38.9		79.59
10	10,380	75.00	10.9	Upper Marker	113.00

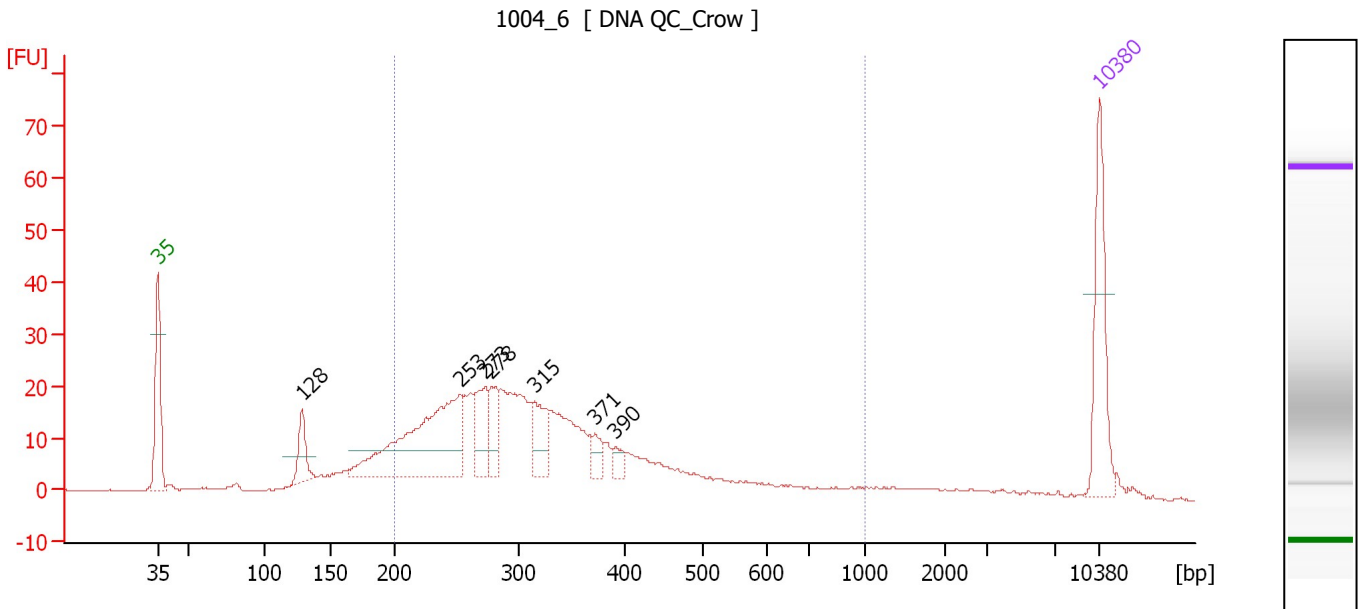
**Region table for sample 10 : 1004\_5**

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	330	569.3	5,600.4	1,104.29	85	32.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
 Modified: 10/9/2017 2:46:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 1004\_6**

Number of peaks found: 7                      Corr. Area 1: 455.6  
 Noise: 0.1

**Peak table for sample 11 : 1004\_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	128	41.20	486.3		53.71
3	253	229.71	1,373.4		65.49
4	273	51.34	284.5		67.34
5	278	39.01	212.5		67.78
6	315	45.96	221.1		70.99
7	371	17.18	70.1		75.47
8	390	12.94	50.2		76.98
9	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : 1004\_6**

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	337	455.6	4,729.9	934.15	79	36.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-09\2017-10-09\_005.xad

Created: 10/9/2017 2:02:43 PM  
Modified: 10/9/2017 2:46:26 PM

**Gel Image**

