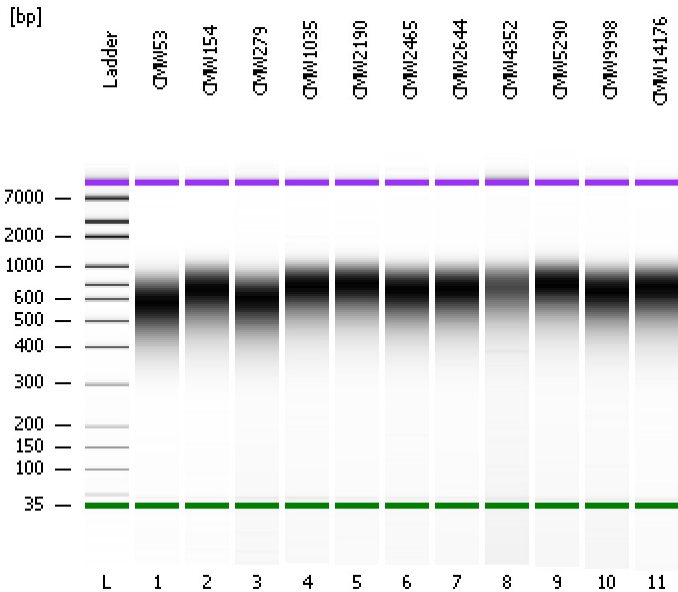


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
Modified: 5/27/2014 9:46:30 AM

**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

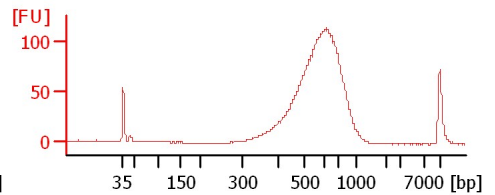
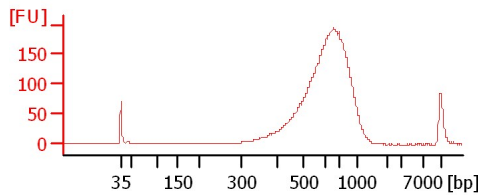
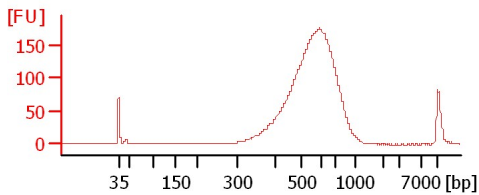
Chip Information:

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

**CMW53**

**CMW154**

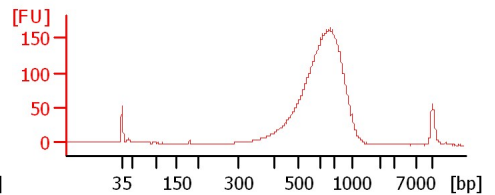
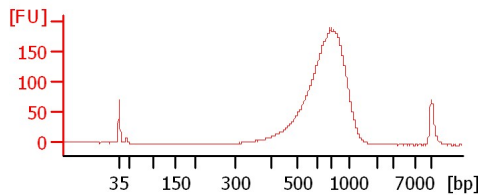
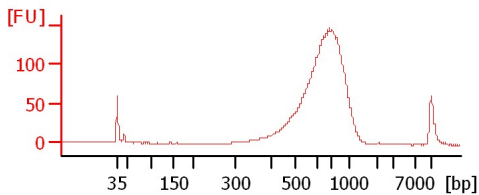
**CMW279**



**CMW1035**

**CMW2190**

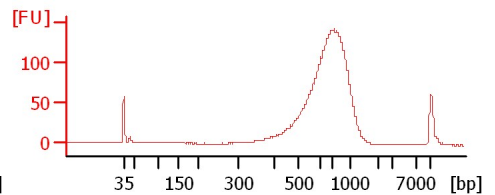
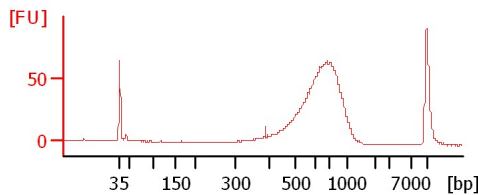
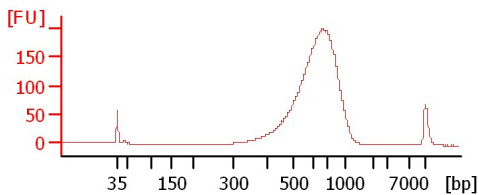
**CMW2465**



**CMW2644**

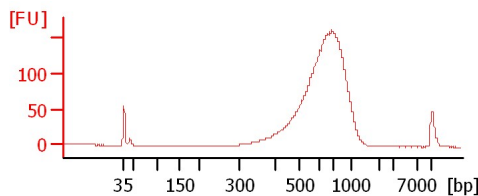
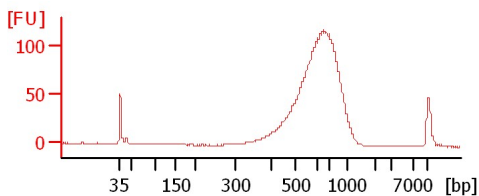
**CMW4352**

**CMW5290**



**CMW9998**

**CMW14176**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
CMW53		<input type="checkbox"/>	✓			
CMW154		<input type="checkbox"/>	✓			
CMW279		<input type="checkbox"/>	✓			
CMW1035		<input type="checkbox"/>	✓			
CMW2190		<input type="checkbox"/>	✓			
CMW2465		<input type="checkbox"/>	✓			
CMW2644		<input type="checkbox"/>	✓			
CMW4352		<input type="checkbox"/>	✓			
CMW5290		<input type="checkbox"/>	✓			
CMW9998		<input type="checkbox"/>	✓			
CMW14176		<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\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
Modified: 5/27/2014 9:46:30 AM

**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

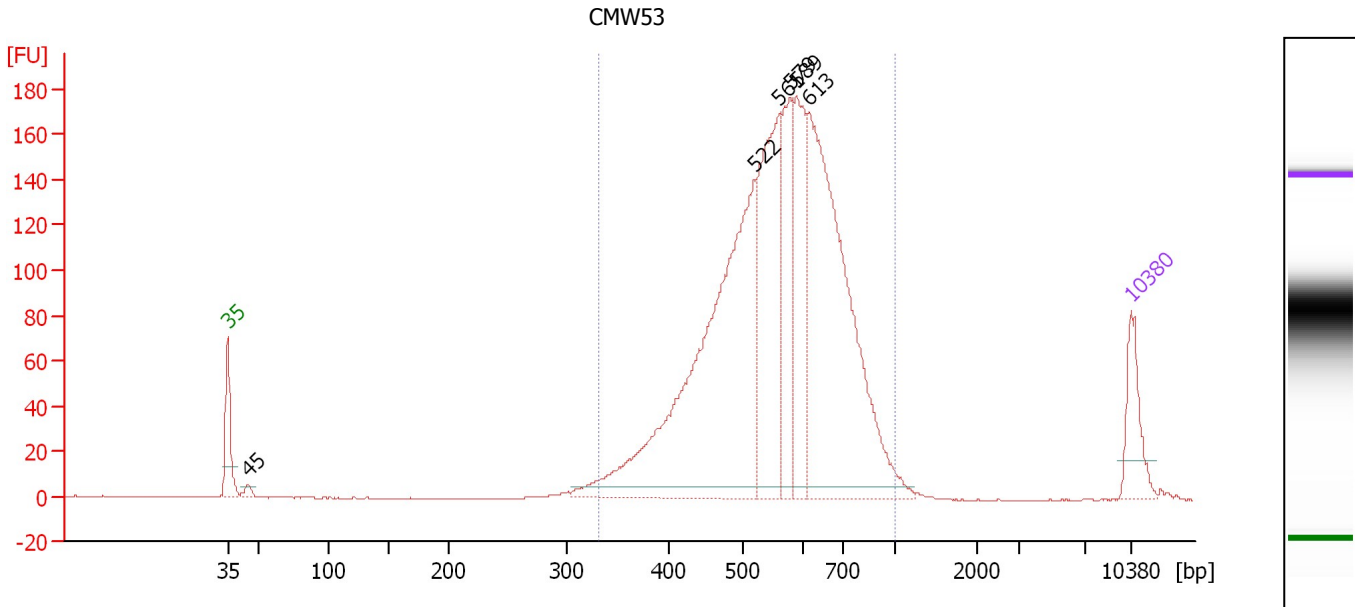
**Ladder**

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\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary**



**Overall Results for sample 1 : CMW53**

Number of peaks found: 6                      Corr. Area 1: 2,383.1  
 Noise: 0.2

**Peak table for sample 1 : CMW53**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	16.91	568.8	
3	522	1,005.89	2,919.9	
4	561	422.97	1,141.7	
5	579	212.61	556.6	
6	589	238.09	612.2	
7	613	803.68	1,986.9	
8	10,380	75.00	10.9	Upper Marker

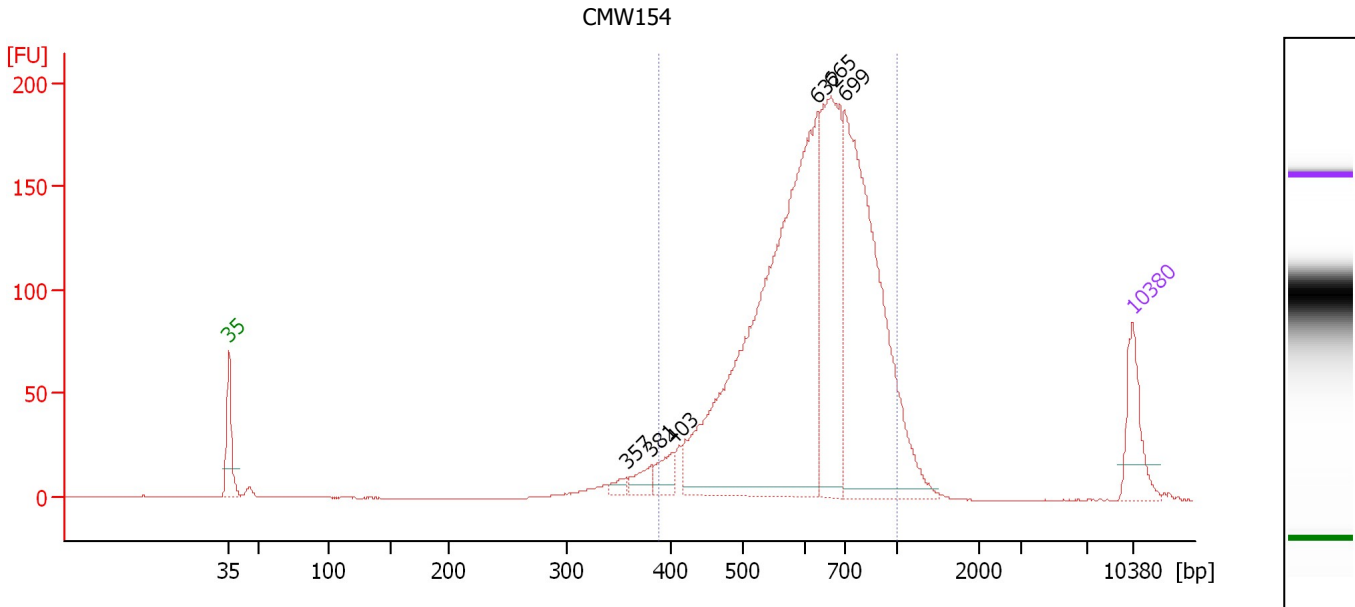
**Region table for sample 1 : CMW53**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
333	1,000	570	7,676.4	2,740.57	2,383.1	98	20.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : CMW154**

Number of peaks found: 6                      Corr. Area 1: 2,288.9  
 Noise: 0.1

**Peak table for sample 2 : CMW154**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	357	16.03	68.1	
3	381	33.56	133.5	
4	403	43.36	163.1	
5	632	1,190.97	2,855.9	
6	665	411.46	937.6	
7	699	749.60	1,624.2	
8	10,380	75.00	10.9	Upper Marker

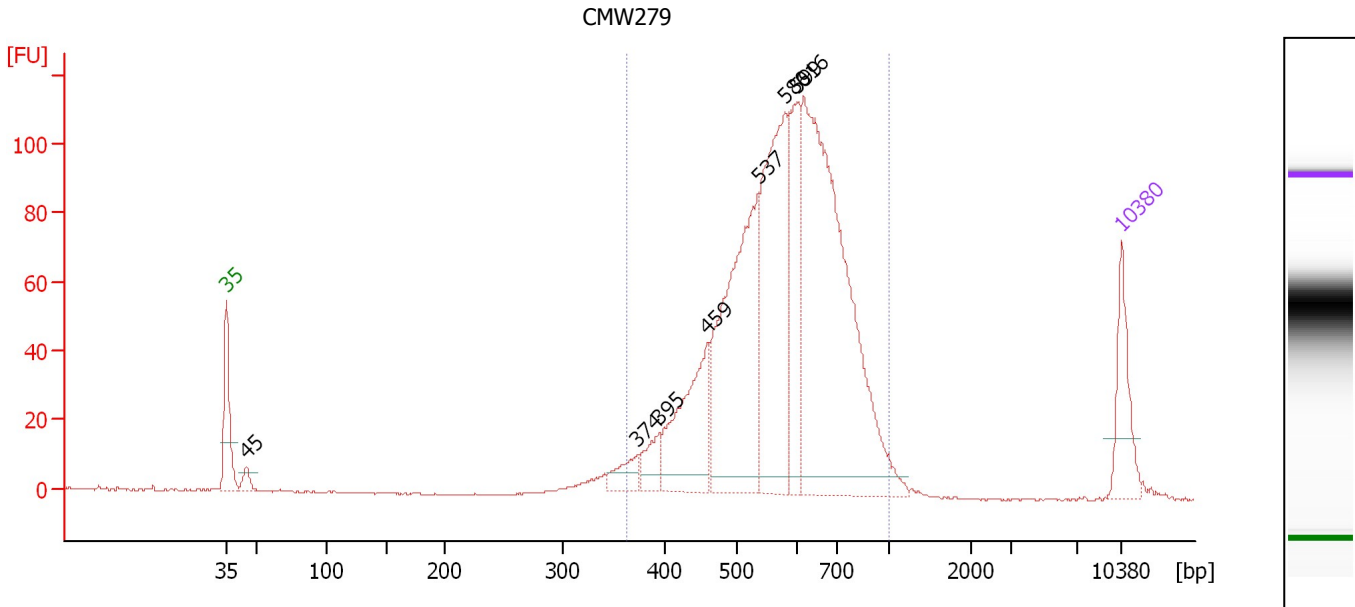
**Region table for sample 2 : CMW154**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
388	1,000	643	5,968.2	2,398.81	2,288.9	93	20.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : CMW279**

Number of peaks found: 8                      Corr. Area 1: 1,469.7  
 Noise: 0.2

**Peak table for sample 3 : CMW279**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	24.97	842.9	
3	374	41.93	169.9	
4	395	47.09	180.8	
5	459	214.15	706.9	
6	537	459.93	1,298.3	
7	580	389.42	1,017.3	
8	599	186.64	471.8	
9	616	778.44	1,913.5	
10	10,380	75.00	10.9	Upper Marker

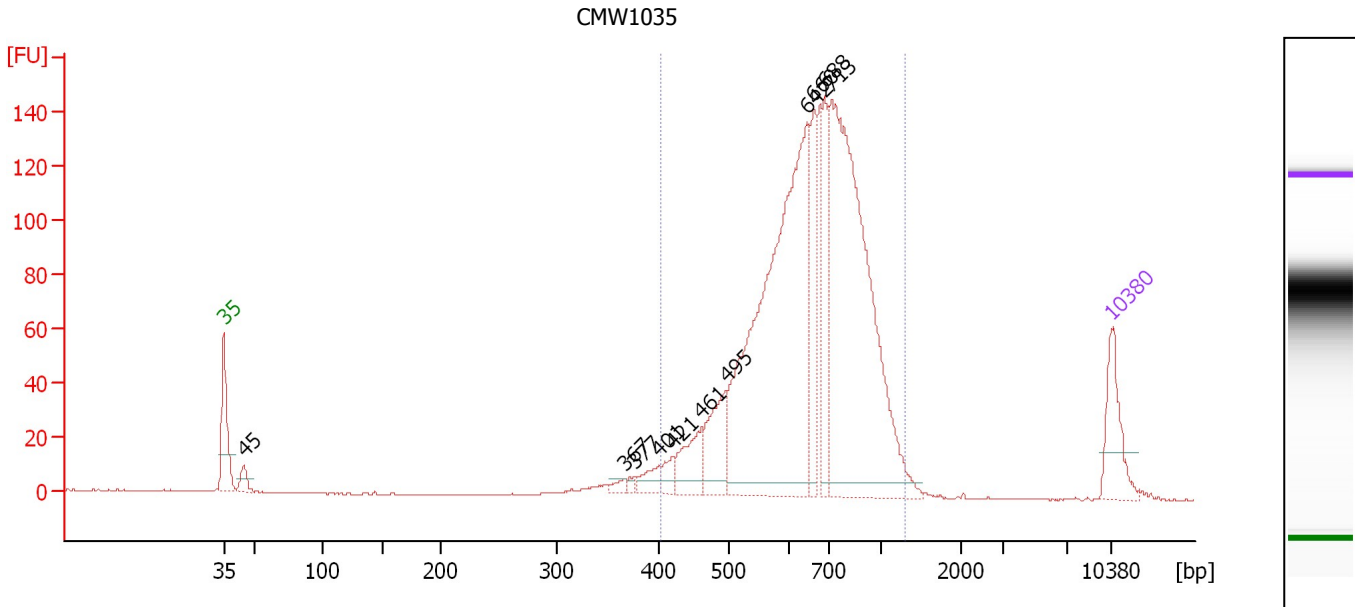
**Region table for sample 3 : CMW279**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
364	1,000	592	5,764.1	2,141.89	1,469.7	95	20.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : CMW1035**

Number of peaks found: 11                      Corr. Area 1: 1,644.9  
 Noise: 0.2

**Peak table for sample 4 : CMW1035**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	32.16	1,084.0	
3	367	12.60	52.0	
4	377	7.77	31.2	
5	401	31.75	120.0	
6	421	24.42	87.9	
7	461	81.89	269.4	
8	495	108.43	332.0	
9	642	894.25	2,108.9	
10	660	133.95	307.5	
11	688	128.69	283.3	
12	713	840.98	1,786.6	
13	10,380	75.00	10.9	Upper Marker

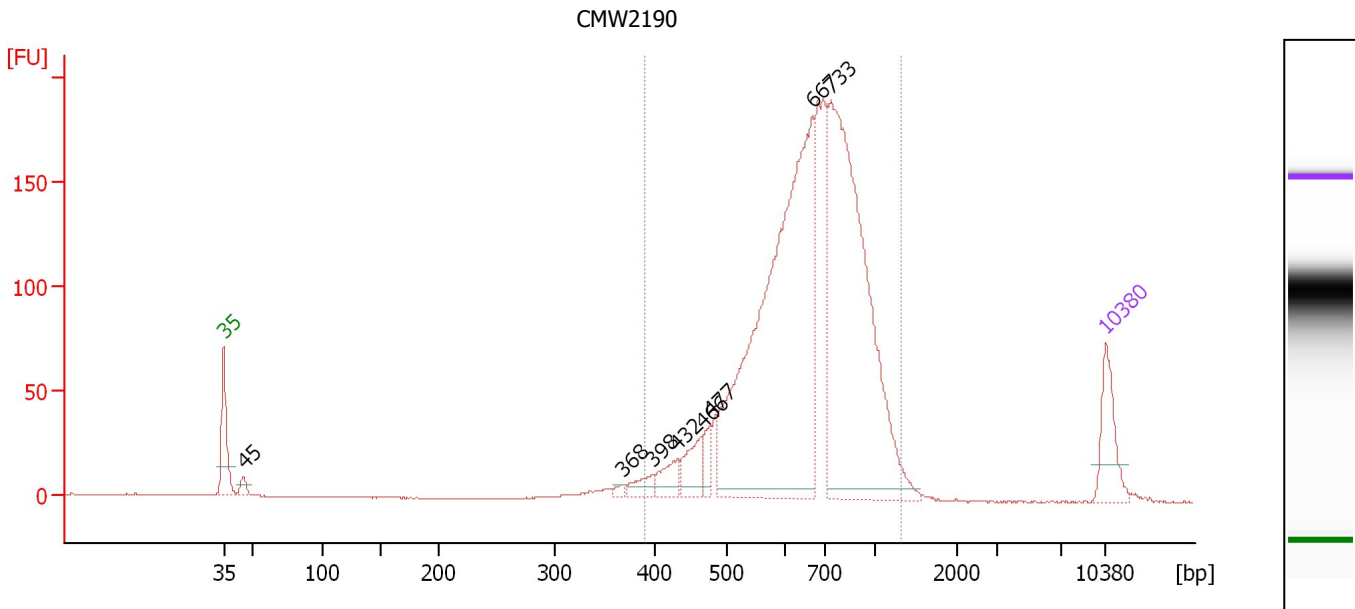
**Region table for sample 4 : CMW1035**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
402	1,313	686	5,332.3	2,267.60	1,644.9	95	23.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : CMW2190**

Number of peaks found: 8                      Corr. Area 1: 2,094.4  
 Noise: 0.1

**Peak table for sample 5 : CMW2190**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	22.57	759.4	
3	368	8.17	33.7	
4	398	31.39	119.4	
5	432	47.74	167.6	
6	466	68.92	224.0	
7	477	33.42	106.1	
8	667	1,123.45	2,553.3	
9	733	917.39	1,896.8	
10	10,380	75.00	10.9	Upper Marker

**Region table for sample 5 : CMW2190**

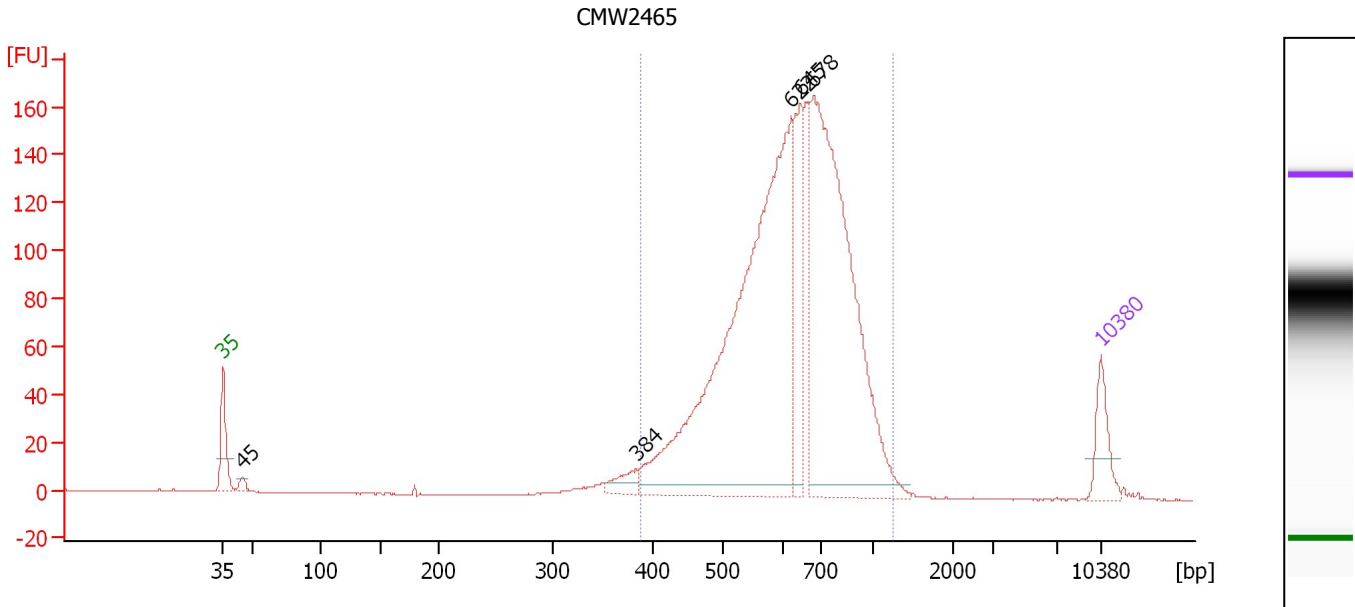
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
389	1,324	697	5,778.4	2,485.81	2,094.4	96	24.0



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : CMW2465**

Number of peaks found: 5                      Corr. Area 1: 1,959.6  
 Noise: 0.1

**Peak table for sample 6 : CMW2465**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	22.79	770.7	
3	384	47.53	187.5	
4	622	1,565.24	3,811.5	
5	645	249.05	584.7	
6	678	1,206.28	2,695.6	
7	10,380	75.00	10.9	Upper Marker

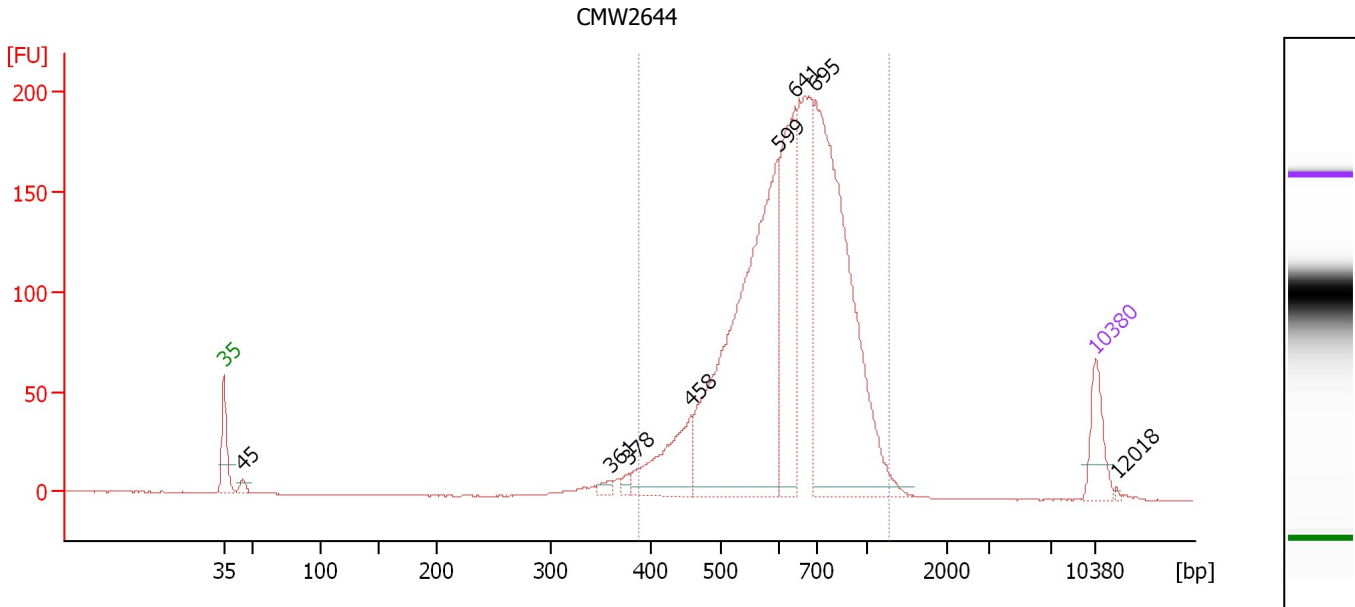
**Region table for sample 6 : CMW2465**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
387	1,271	654	8,001.4	3,252.44	1,959.6	96	22.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : CMW2644**

Number of peaks found: 8                      Corr. Area 1: 2,317.0  
 Noise: 0.1

**Peak table for sample 7 : CMW2644**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	20.74	704.7	
3	361	18.19	76.4	
4	378	14.78	59.2	
5	458	209.74	694.4	
6	599	1,032.99	2,612.7	
7	641	375.83	888.2	
8	695	1,030.58	2,248.1	
9	10,380	75.00	10.9	Upper Marker
10	12,018	0.00	0.0	

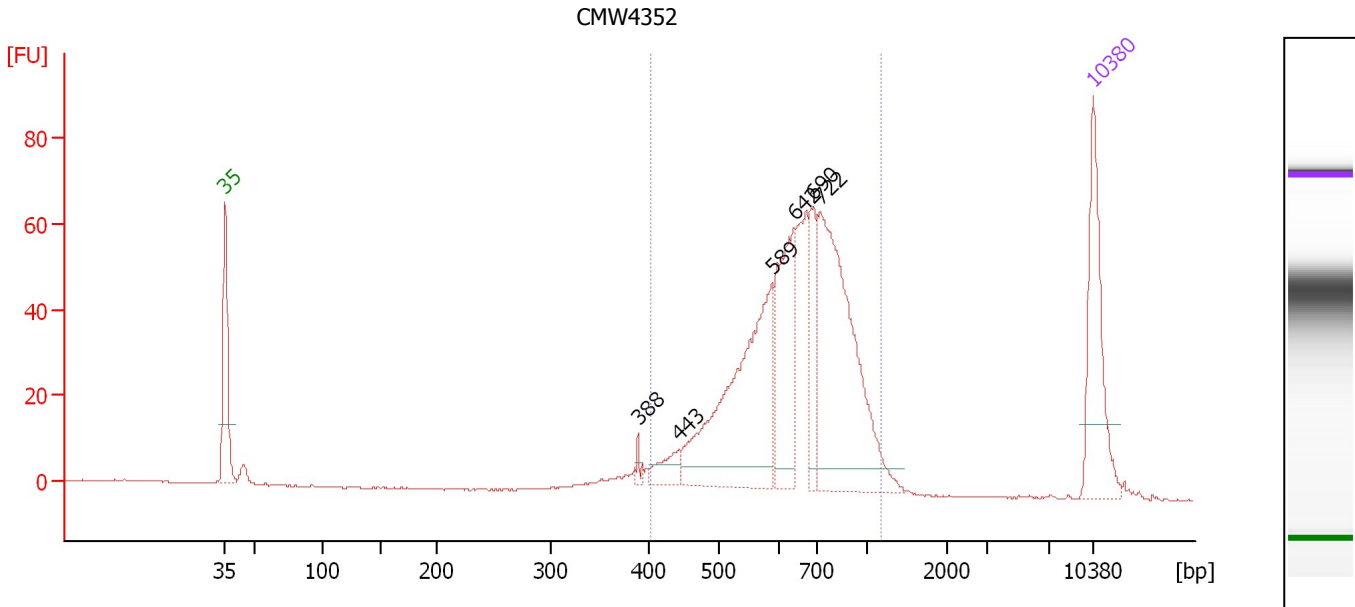
**Region table for sample 7 : CMW2644**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
388	1,275	661	7,541.2	3,096.38	2,317.0	96	22.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : CMW4352**

Number of peaks found: 6                      Corr. Area 1: 739.7  
 Noise: 0.2

**Peak table for sample 8 : CMW4352**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	388	4.65	18.1	
3	443	21.76	74.4	
4	589	214.90	552.4	
5	642	106.93	252.4	
6	690	51.81	113.7	
7	722	246.65	517.7	
8	10,380	75.00	10.9	Upper Marker

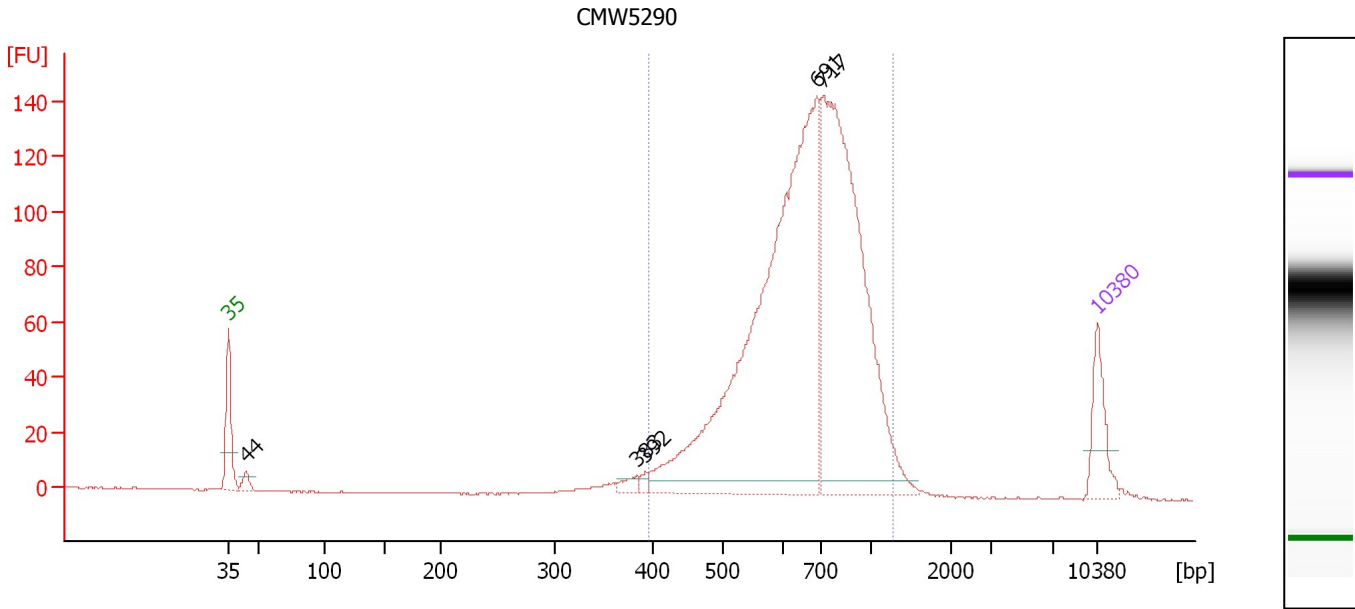
**Region table for sample 8 : CMW4352**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
400	1,189	674	1,764.2	739.28	739.7	94	22.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : CMW5290**

Number of peaks found: 5                      Corr. Area 1: 1,562.3  
 Noise: 0.1

**Peak table for sample 9 : CMW5290**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	24.43	839.6	
3	383	18.80	74.3	
4	392	10.13	39.1	
5	691	1,378.88	3,023.5	
6	717	970.12	2,048.8	
7	10,380	75.00	10.9	Upper Marker

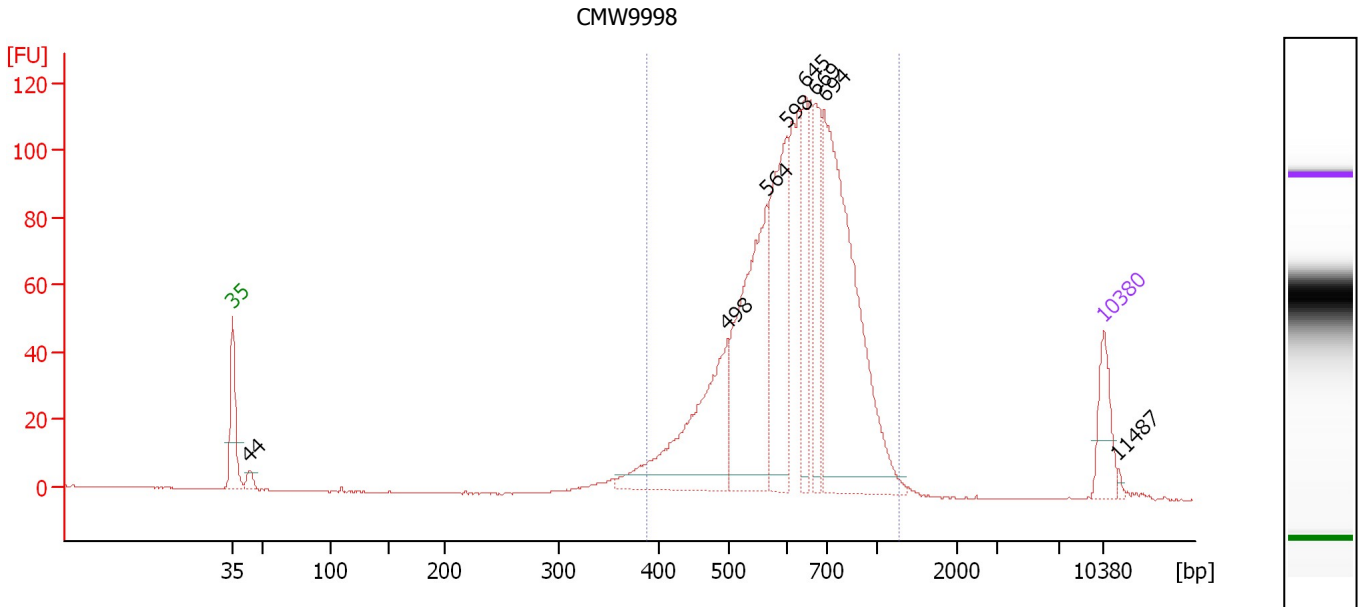
**Region table for sample 9 : CMW5290**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
394	1,291	703	5,400.4	2,343.98	1,562.3	96	23.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : CMW9998**

Number of peaks found: 8                      Corr. Area 1: 1,384.7  
 Noise: 0.2

**Peak table for sample 10 : CMW9998**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	26.28	915.1	
3	498	411.20	1,250.1	
4	564	482.88	1,296.6	
5	598	336.16	852.0	
6	645	145.66	342.3	
7	669	166.81	377.6	
8	694	791.05	1,726.7	
9	10,380	75.00	10.9	Upper Marker
10	11,487	0.00	0.0	

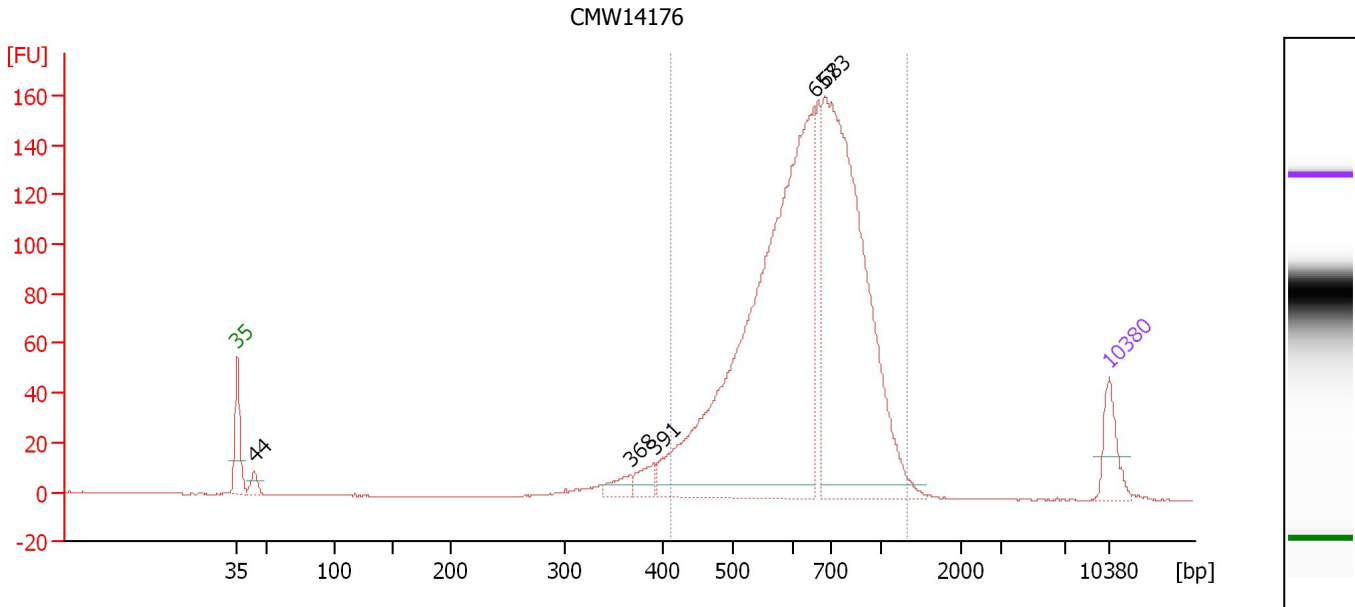
**Region table for sample 10 : CMW9998**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
387	1,293	647	6,790.2	2,735.09	1,384.7	96	22.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
 Modified: 5/27/2014 9:46:30 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : CMW14176**

Number of peaks found: 5                      Corr. Area 1: 1,841.8  
 Noise: 0.2

**Peak table for sample 11 : CMW14176**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	39.69	1,373.9	
3	368	44.20	182.2	
4	391	53.01	205.7	
5	657	1,888.92	4,358.6	
6	683	1,360.87	3,020.4	
7	10,380	75.00	10.9	Upper Marker

**Region table for sample 11 : CMW14176**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
409	1,330	671	8,142.9	3,389.83	1,841.8	94	23.3

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-27\2014-05-27\_001.xad

Created: 5/27/2014 7:41:45 AM  
Modified: 5/27/2014 9:46:30 AM

**Gel Image**

