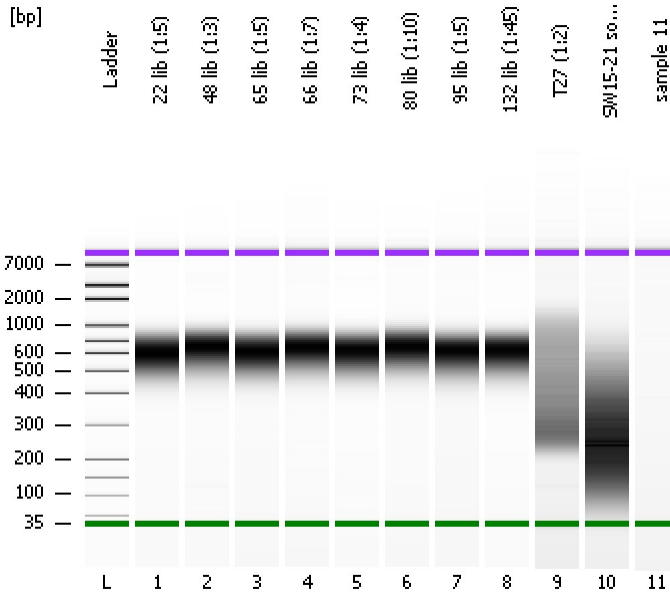


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
Modified: 7/17/2015 2:40:05 PM

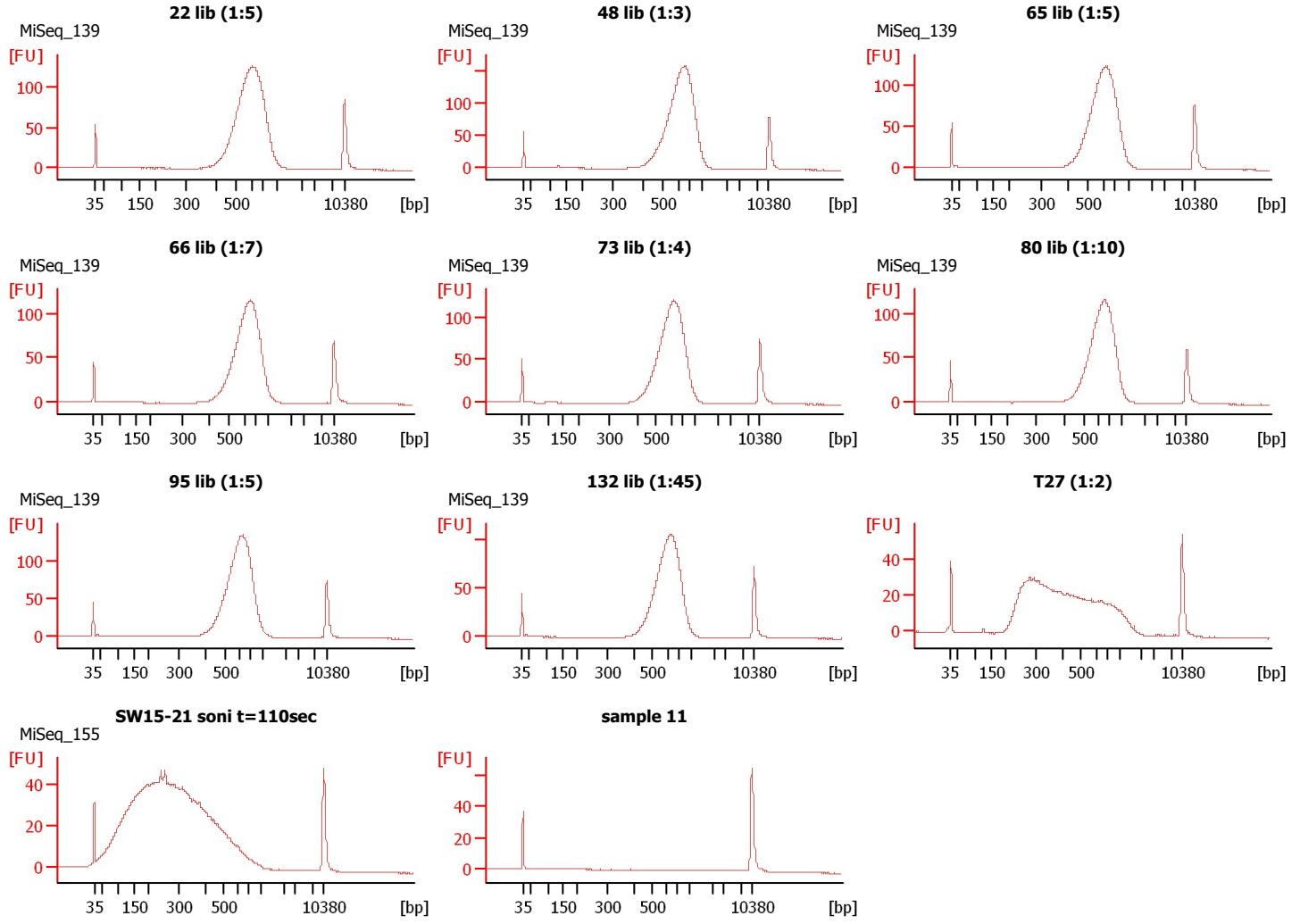
**Electrophoresis File Run Summary**



**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:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
Modified: 7/17/2015 2:40:05 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
22 lib (1:5)	MiSeq_139	<input type="checkbox"/>	✓			
48 lib (1:3)	MiSeq_139	<input type="checkbox"/>	✓			
65 lib (1:5)	MiSeq_139	<input type="checkbox"/>	✓			
66 lib (1:7)	MiSeq_139	<input type="checkbox"/>	✓			
73 lib (1:4)	MiSeq_139	<input type="checkbox"/>	✓			
80 lib (1:10)	MiSeq_139	<input type="checkbox"/>	✓			
95 lib (1:5)	MiSeq_139	<input type="checkbox"/>	✓			
132 lib (1:45)	MiSeq_139	<input type="checkbox"/>	✓			
T27 (1:2)		<input type="checkbox"/>	✓			
SW15-21 soni t=110sec	MiSeq_155	<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:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
Modified: 7/17/2015 2:40:05 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

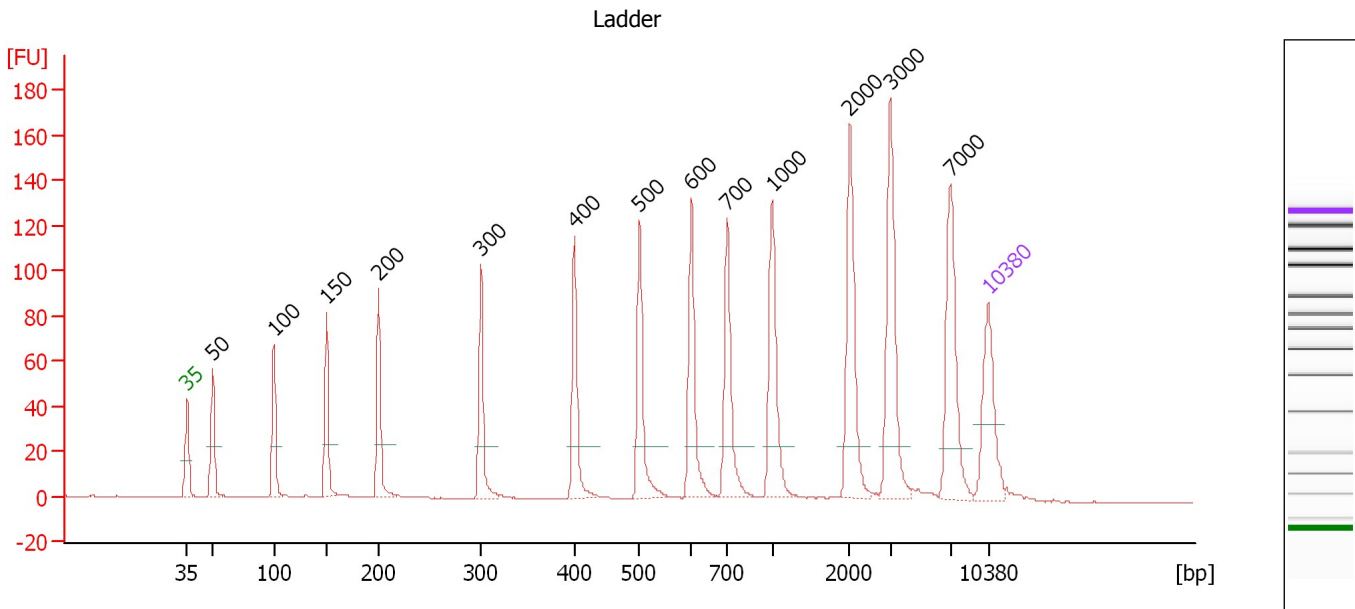
**Ladder**

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:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

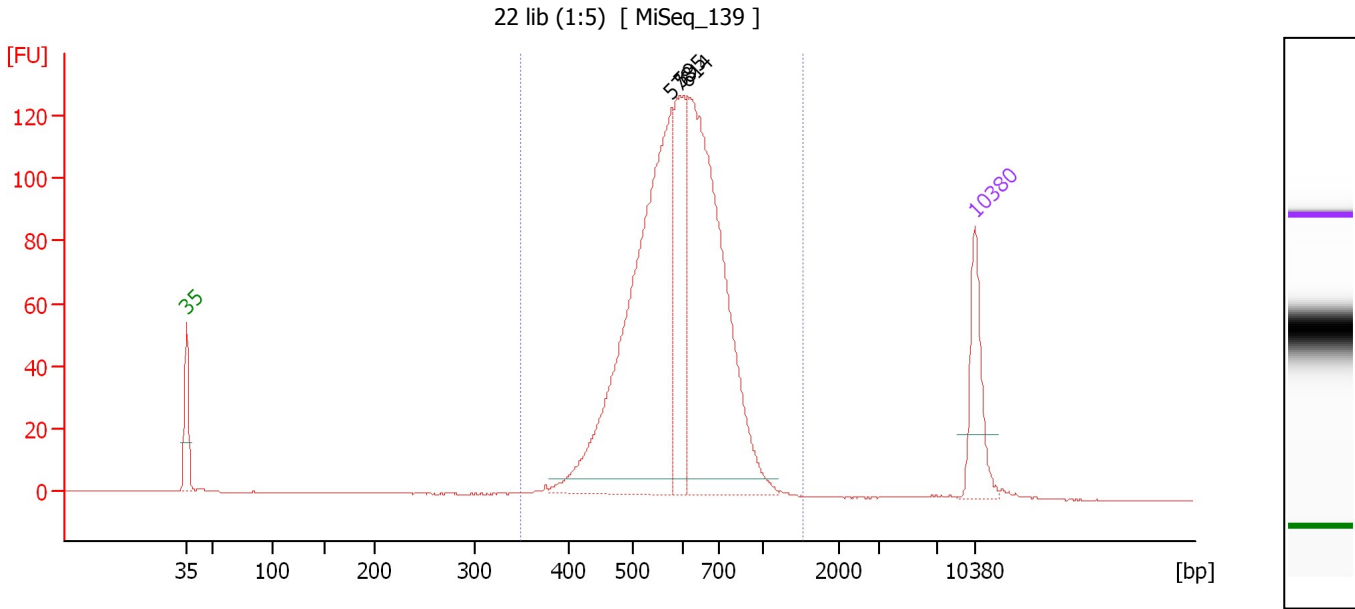
**Peak table for Ladder**

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	45.24
3	100	150.00	2,272.7	Ladder Peak	50.59
4	150	150.00	1,515.2	Ladder Peak	55.20
5	200	150.00	1,136.4	Ladder Peak	59.72
6	300	150.00	757.6	Ladder Peak	68.66
7	400	150.00	568.2	Ladder Peak	76.86
8	500	150.00	454.5	Ladder Peak	82.54
9	600	150.00	378.8	Ladder Peak	87.06
10	700	150.00	324.7	Ladder Peak	90.18
11	1,000	150.00	227.3	Ladder Peak	94.09
12	2,000	150.00	113.6	Ladder Peak	100.89
13	3,000	150.00	75.8	Ladder Peak	104.43
14	7,000	150.00	32.5	Ladder Peak	109.69
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 22 lib (1:5)**

Number of peaks found: 3                      Corr. Area 1: 1,388.5  
 Noise: 0.2

**Peak table for sample 1 : 22 lib (1:5)**

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	578	679.82	1,781.7		86.07
3	595	189.48	482.6		86.83
4	614	604.39	1,491.9		87.49
5	10,380	75.00	10.9	Upper Marker	113.00

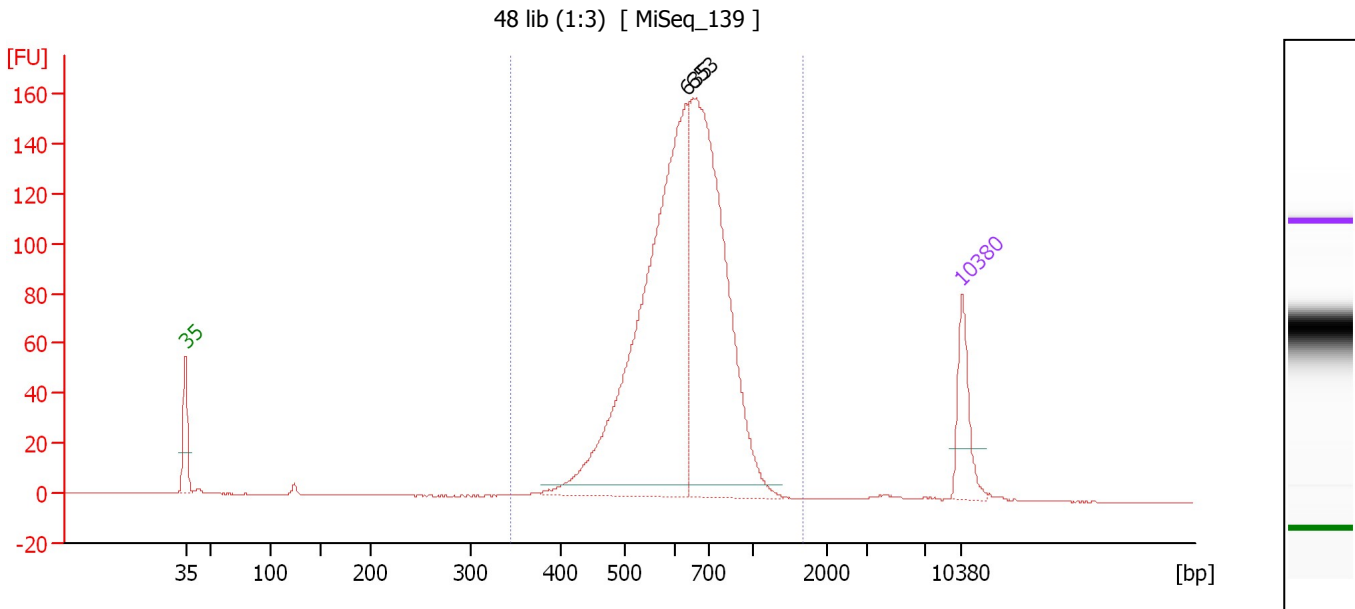
**Region table for sample 1 : 22 lib (1:5)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
348	607	1,526	1,388.5	4,021.2	98	19.1	1,548.30

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 48 lib (1:3)**

Number of peaks found: 2                      Corr. Area 1: 1,589.5  
 Noise: 0.1

**Peak table for sample 2 : 48 lib (1:3)**

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	635	954.20	2,277.5		88.14
3	653	794.57	1,842.8		88.72
4	10,380	75.00	10.9	Upper Marker	113.00

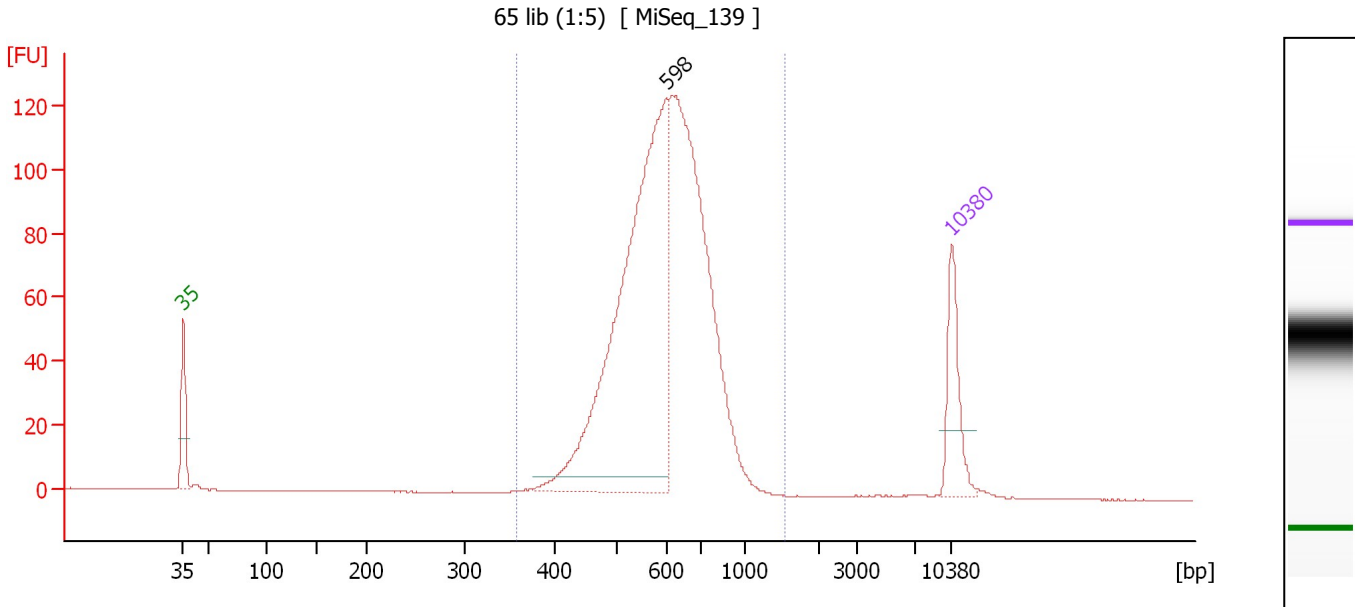
**Region table for sample 2 : 48 lib (1:3)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
345	648	1,676	1,589.5	4,482.6	98	20.3	1,831.03

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 65 lib (1:5)**

Number of peaks found: 1                      Corr. Area 1: 1,302.5  
 Noise: 0.1

**Peak table for sample 3 : 65 lib (1:5)**

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	598	783.96	1,986.7		86.96
3	10,380	75.00	10.9	Upper Marker	113.00

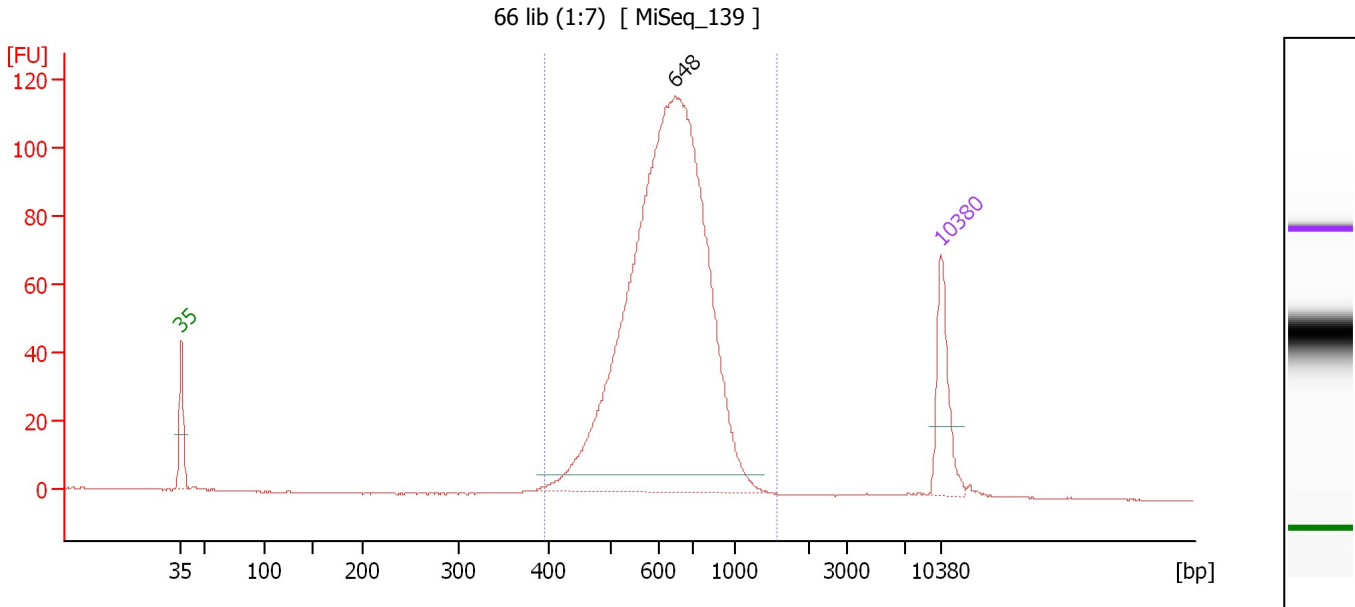
**Region table for sample 3 : 65 lib (1:5)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
358	613	1,549	1,302.5	3,965.0	99	18.8	1,543.10

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 66 lib (1:7)**

Number of peaks found: 1                      Corr. Area 1: 1,138.3  
 Noise: 0.1

**Peak table for sample 4 : 66 lib (1:7)**

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	648	1,402.12	3,276.4		88.57
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 66 lib (1:7)**

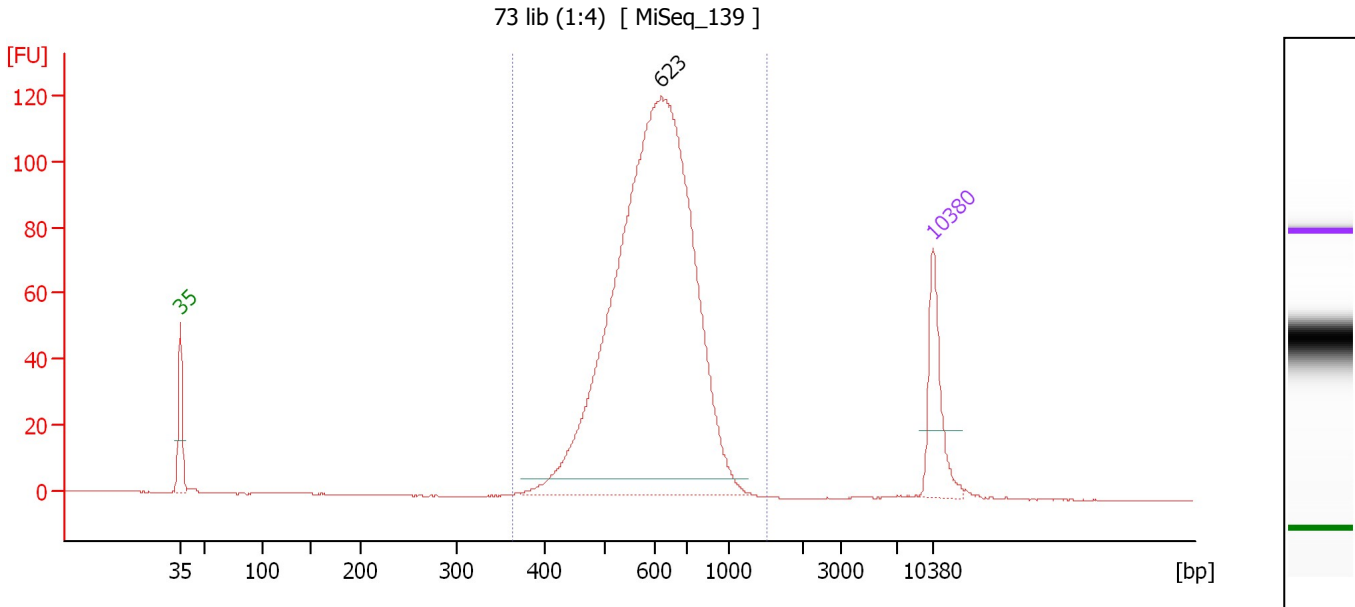
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
396	648	1,552	1,138.3	3,545.0	98	20.1	1,453.64



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 73 lib (1:4)**

Number of peaks found: 1                      Corr. Area 1: 1,213.0  
 Noise: 0.1

**Peak table for sample 5 : 73 lib (1:4)**

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	623	1,325.73	3,225.8		87.77
3	10,380	75.00	10.9	Upper Marker	113.00

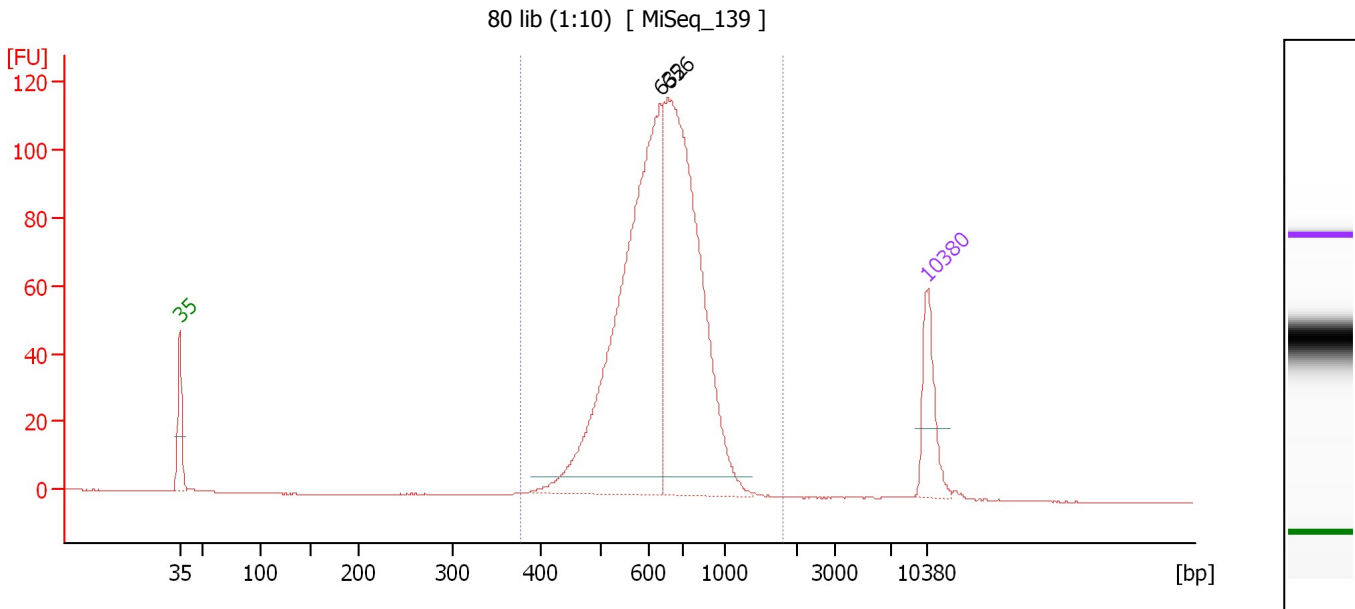
**Region table for sample 5 : 73 lib (1:4)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
365	619	1,512	1,213.0	3,513.5	99	18.4	1,382.85

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 80 lib (1:10)**

Number of peaks found: 2                      Corr. Area 1: 1,134.0  
 Noise: 0.1

**Peak table for sample 6 : 80 lib (1:10)**

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	632	792.12	1,899.7		88.05
3	656	726.78	1,679.1		88.80
4	10,380	75.00	10.9	Upper Marker	113.00

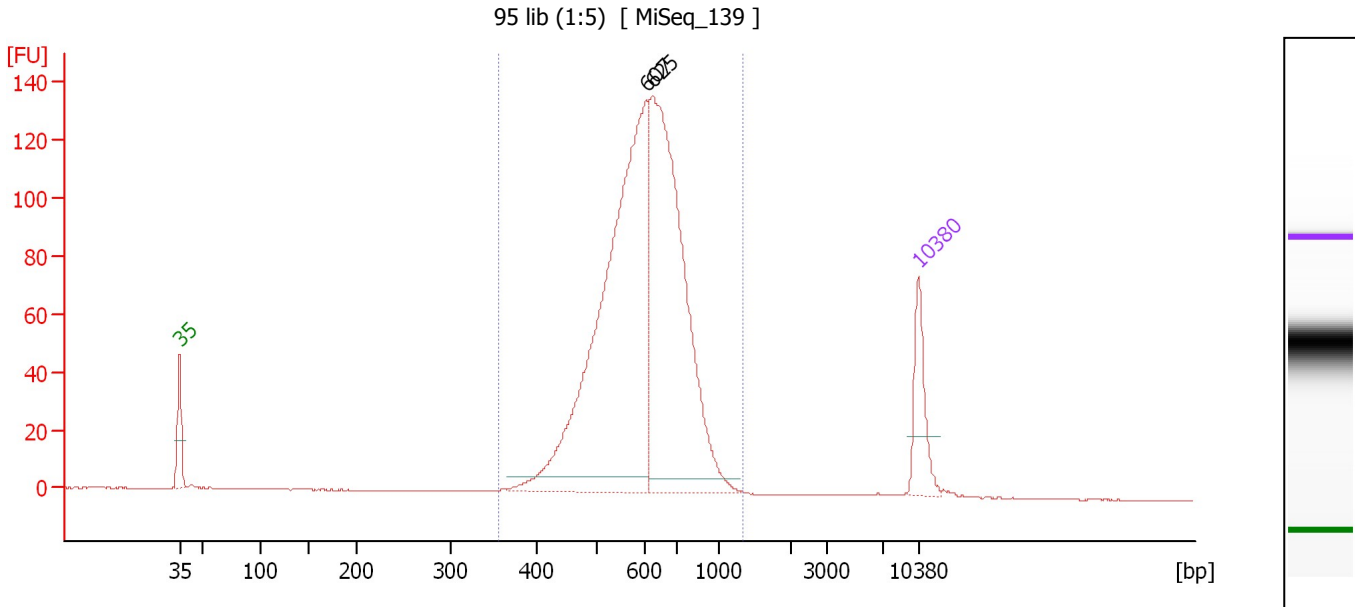
**Region table for sample 6 : 80 lib (1:10)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
376	657	1,805	1,134.0	3,827.0	99	20.8	1,586.70

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 95 lib (1:5)**

Number of peaks found: 2                      Corr. Area 1: 1,367.4  
 Noise: 0.1

**Peak table for sample 7 : 95 lib (1:5)**

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	607	928.06	2,316.9		87.27
3	625	741.26	1,797.8		87.83
4	10,380	75.00	10.9	Upper Marker	113.00

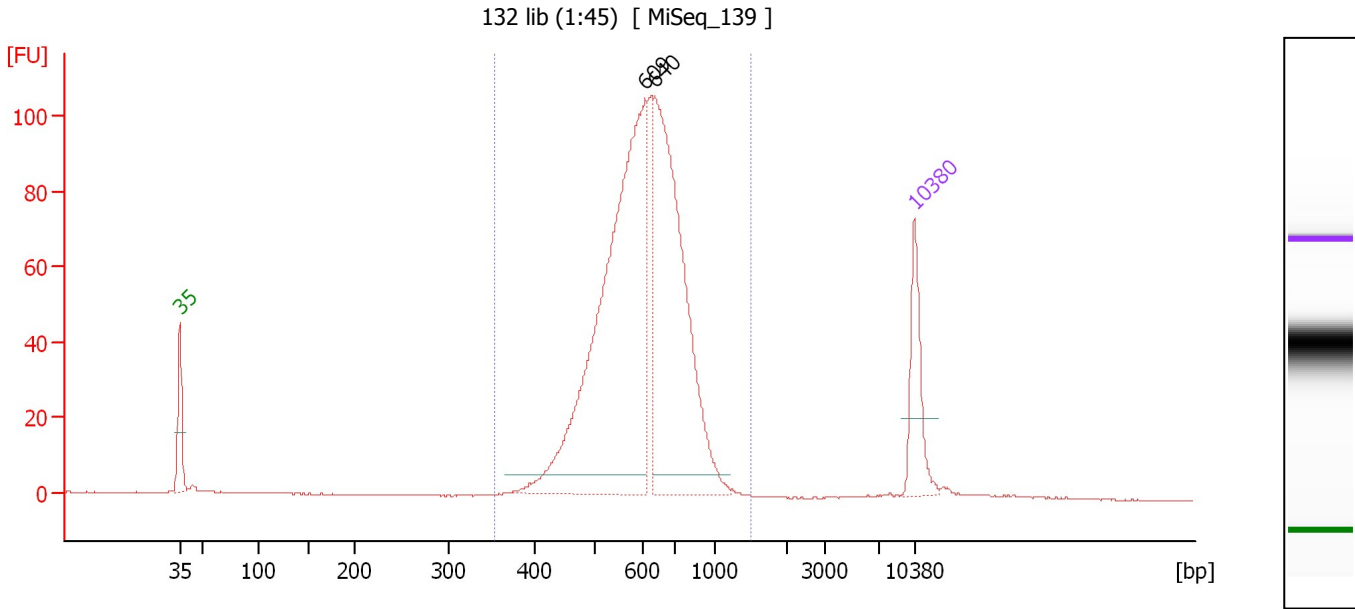
**Region table for sample 7 : 95 lib (1:5)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
357	615	1,331	1,367.4	4,589.0	97	18.7	1,788.89

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 132 lib (1:45)**

Number of peaks found: 2                      Corr. Area 1: 1,062.2  
 Noise: 0.1

**Peak table for sample 8 : 132 lib (1:45)**

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	609	765.13	1,902.8		87.35
3	640	537.46	1,272.0		88.31
4	10,380	75.00	10.9	Upper Marker	113.00

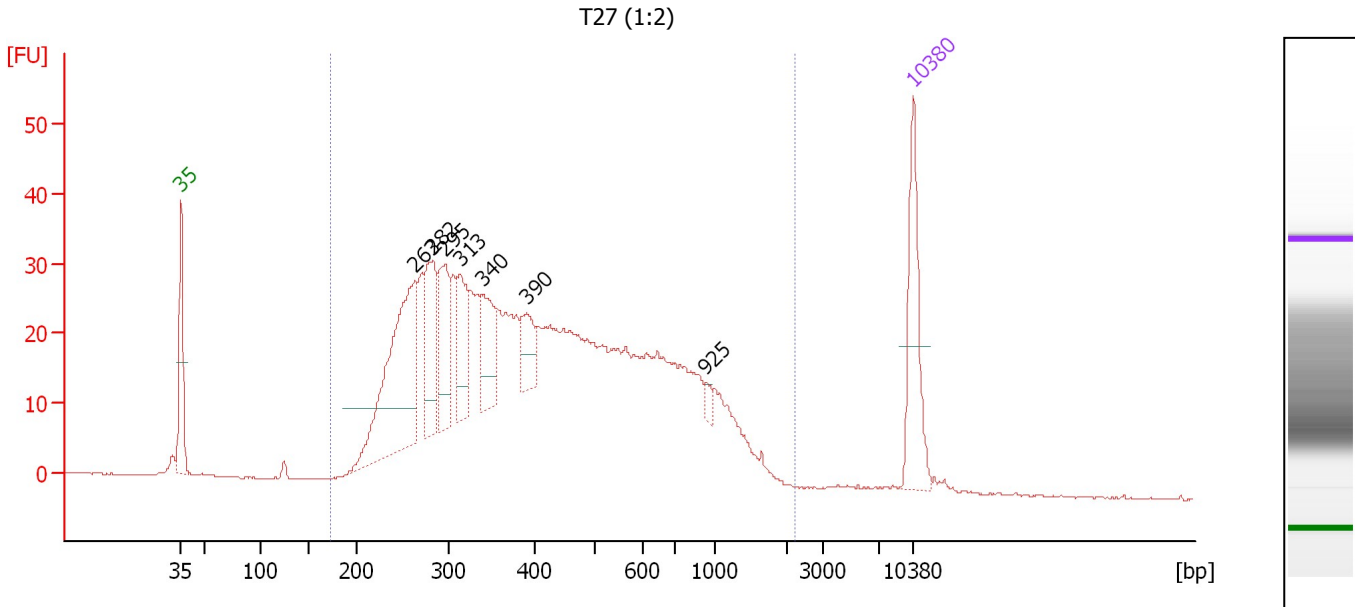
**Region table for sample 8 : 132 lib (1:45)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
354	622	1,497	1,062.2	3,735.7	97	19.1	1,472.05

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : T27 (1:2)**

Number of peaks found: 7                      Corr. Area 1: 1,011.4  
 Noise: 0.1

**Peak table for sample 9 : T27 (1:2)**

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	263	255.13	1,471.2		65.33
3	282	97.31	522.6		67.06
4	295	89.04	456.9		68.24
5	313	71.10	344.4		69.72
6	340	67.25	300.0		71.91
7	390	38.44	149.4		76.04
8	925	7.18	11.8		93.12
9	10,380	75.00	10.9	Upper Marker	113.00

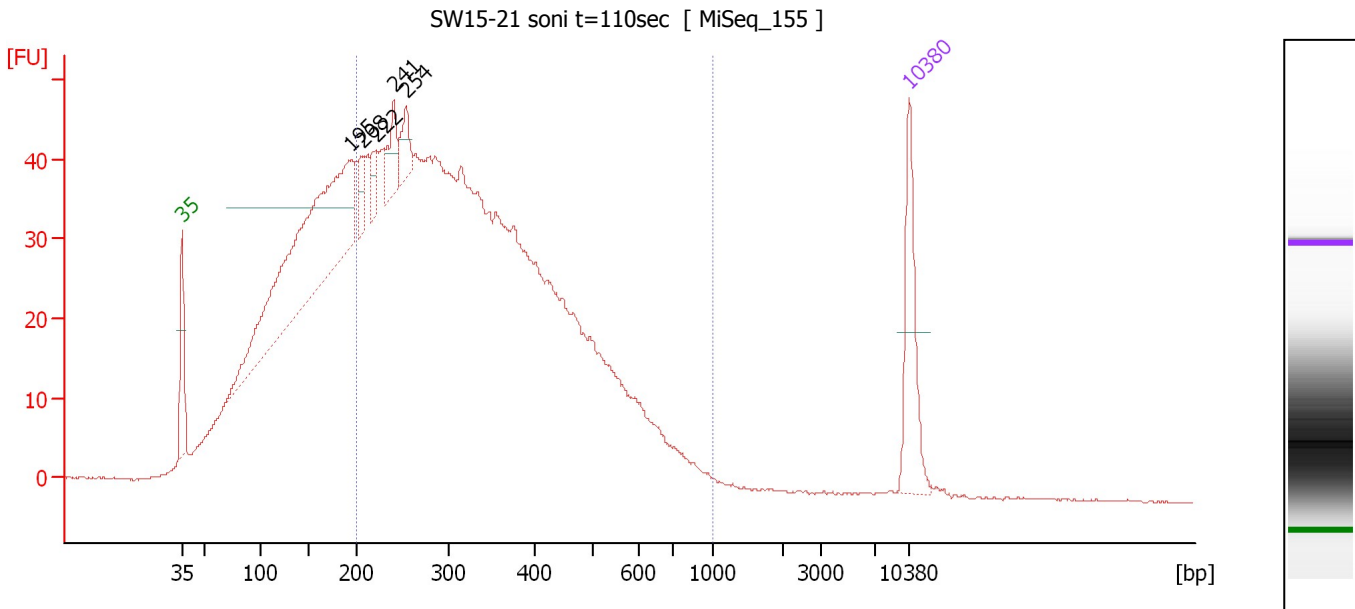
**Region table for sample 9 : T27 (1:2)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
173	484	2,201	1,011.4	8,443.1	98	56.8	2,033.39

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : SW15-21 soni t=110sec**

Number of peaks found: 5                      Corr. Area 1: 1,246.4  
 Noise: 0.1

**Peak table for sample 10 : SW15-21 soni t=110sec**

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	195	451.02	3,512.2		59.23
3	208	28.96	210.6		60.46
4	222	24.34	166.1		61.69
5	241	43.33	272.4		63.39
6	254	34.27	204.3		64.57
7	10,380	75.00	10.9	Upper Marker	113.00

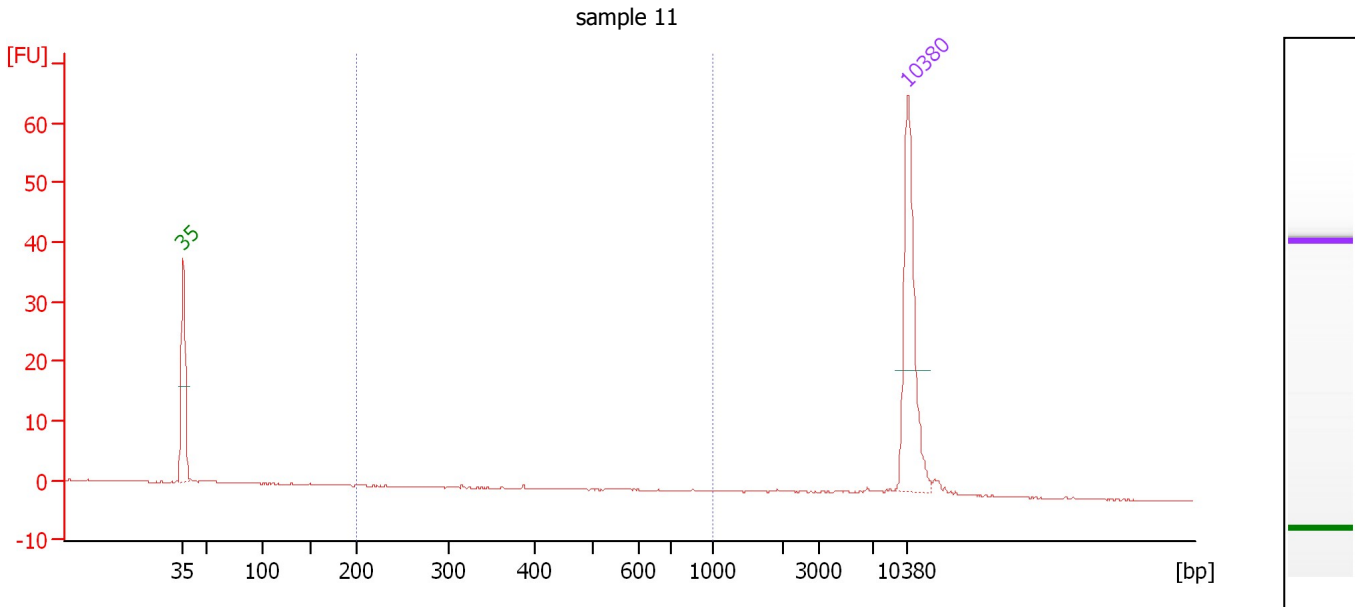
**Region table for sample 10 : SW15-21 soni t=110sec**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	351	1,000	1,246.4	15,058.5	64	35.2	3,036.37

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
 Modified: 7/17/2015 2:40:05 PM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 5.0  
 Noise: 0.1

**Peak table for sample 11 : sample 11**

Pea k	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]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	552	1,000	5.0	27.1	20	37.5	7.67

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-17\2015-07-17\_002.xad

Created: 7/17/2015 1:35:44 PM  
Modified: 7/17/2015 2:40:05 PM

**Gel Image**

