

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-14\2014-11-14\_002.xad

Created: 11/14/2014 5:28:21 PM  
Modified: 11/14/2014 6:08:41 PM

### Electrophoresis File Run Summary

Instrument Information:

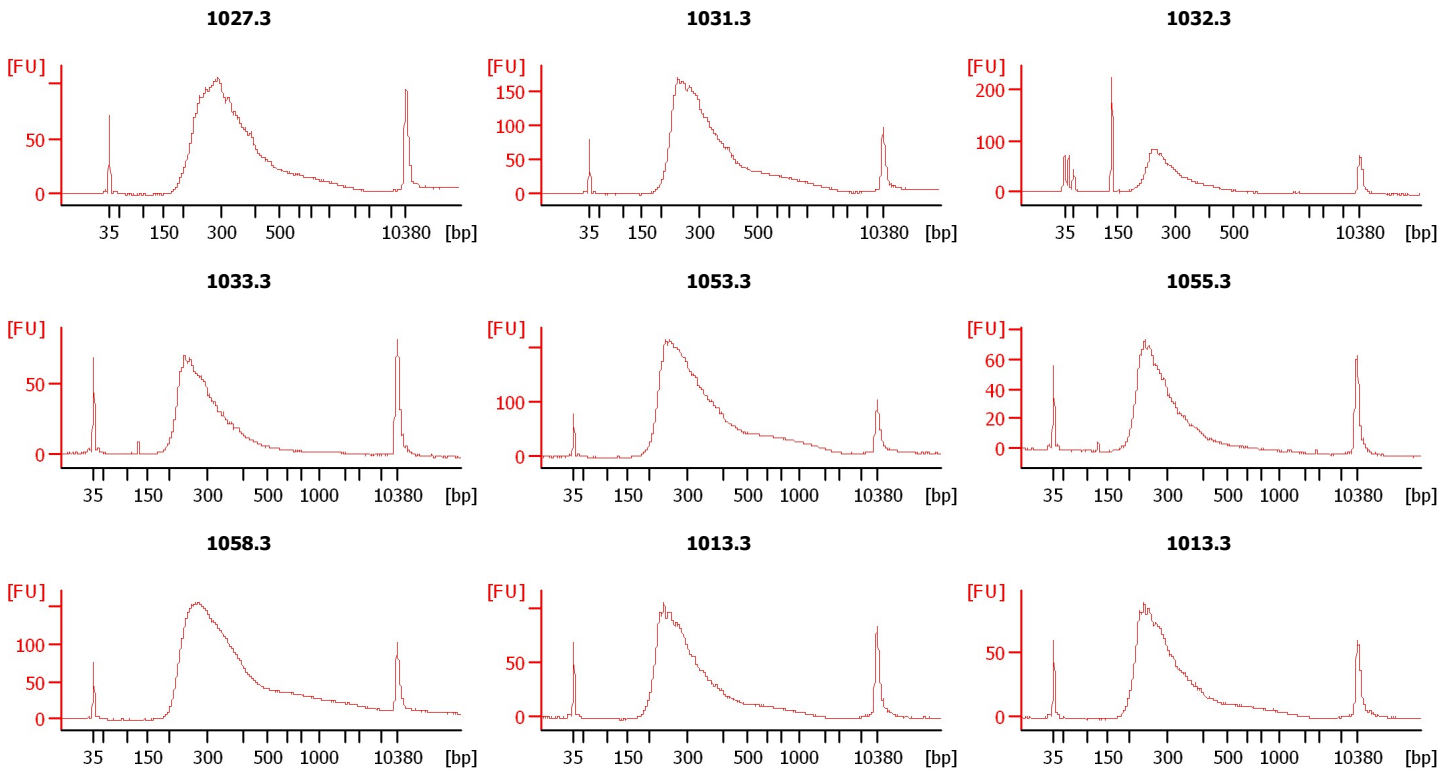
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2014-11-14\2014-11-14\_002.xad

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1027.3		<input type="checkbox"/>	✓			
1031.3		<input type="checkbox"/>	✓			
1032.3		<input type="checkbox"/>	✓			
1033.3		<input type="checkbox"/>	✓			
1053.3		<input type="checkbox"/>	✓			
1055.3		<input type="checkbox"/>	✓			
1058.3		<input type="checkbox"/>	✓			
1013.3		<input type="checkbox"/>	✓			
1013.3		<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  
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**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

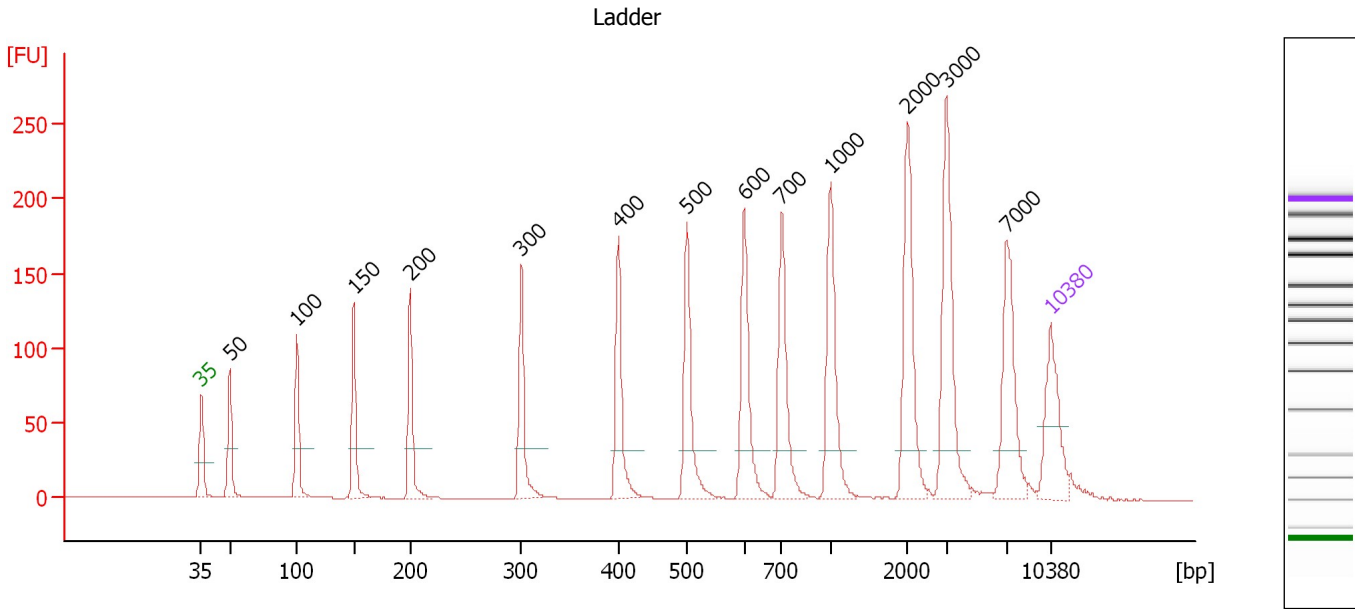
**Ladder**

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

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

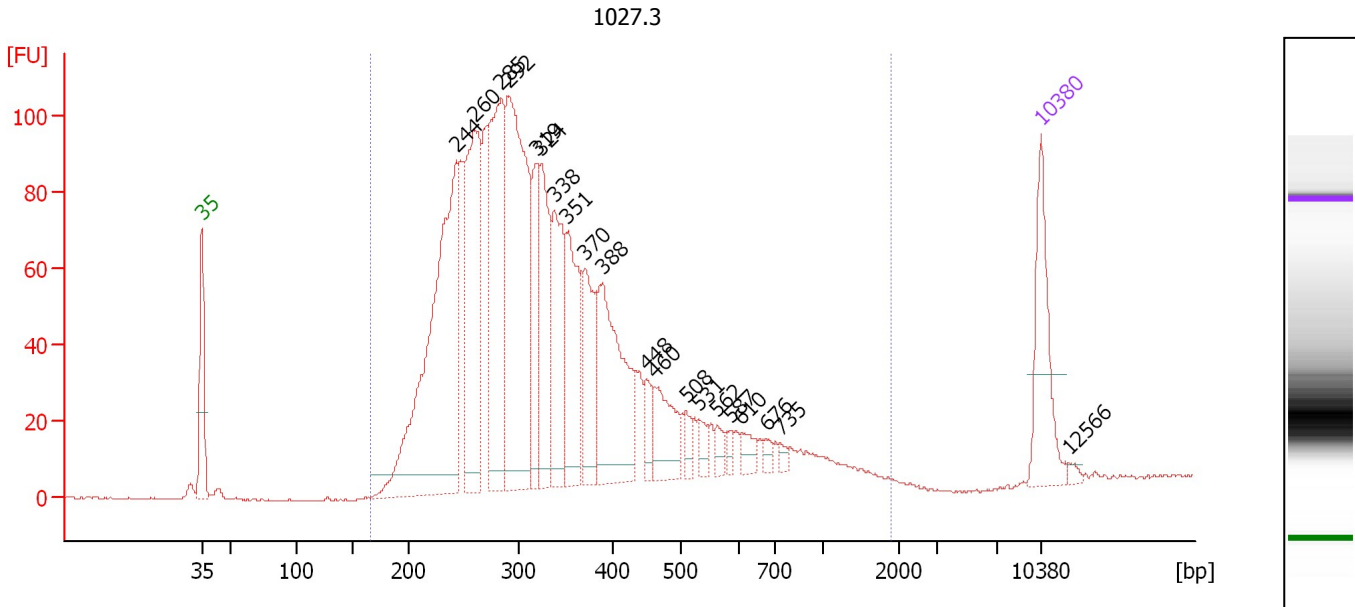
**Peak table for Ladder**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1027.3**

Number of peaks found: 20                      Corr. Area 1: 2,283.0  
 Noise: 0.2

**Peak table for sample 1 : 1027.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	244	495.13	3,077.3	
3	260	250.31	1,456.8	
4	285	263.50	1,400.0	
5	292	382.21	1,983.4	
6	319	89.79	426.9	
7	324	135.98	635.4	
8	338	131.76	591.4	
9	351	124.68	538.3	
10	370	93.68	383.8	
11	388	180.82	705.7	
12	448	25.15	85.1	
13	460	64.54	212.4	
14	508	14.37	42.9	
15	531	14.36	41.0	
16	562	11.82	31.9	
17	587	7.71	19.9	
18	610	14.67	36.4	
19	676	8.15	18.3	
20	735	5.76	11.9	
21	10,380	75.00	10.9	Upper Marker
22	12,566	0.00	0.0	

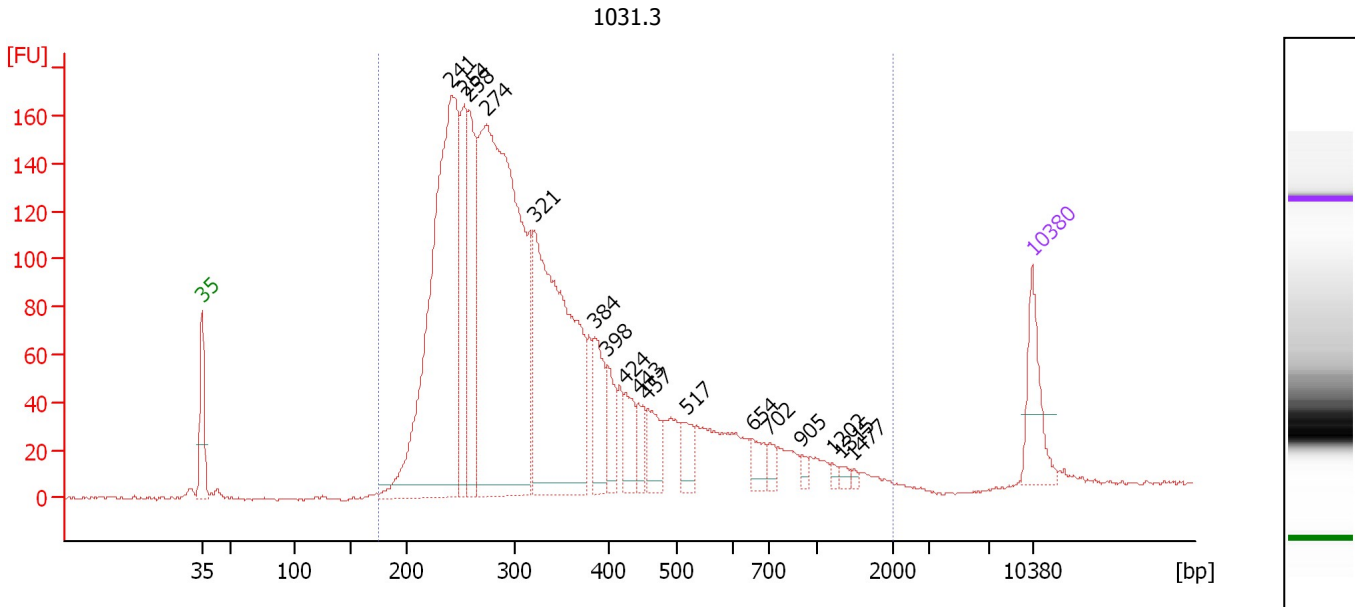
**Region table for sample 1 : 1027.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
166	356	1,887	2,283.0	99	46.7	2,660.97	13,180.1	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1031.3**

Number of peaks found: 17      Corr. Area 1: 3,337.4  
 Noise: 0.6

**Peak table for sample 2 : 1031.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	241	982.90	6,173.1	
3	254	225.43	1,347.1	
4	258	271.11	1,592.3	
5	274	1,209.38	6,682.6	
6	321	680.73	3,212.0	
7	384	106.64	420.7	
8	398	67.45	257.1	
9	424	58.75	210.2	
10	443	39.22	134.0	
11	457	65.71	217.9	
12	517	42.11	123.4	
13	654	33.03	76.5	
14	702	17.93	38.7	
15	905	9.15	15.3	
16	1,202	5.63	7.1	
17	1,315	8.17	9.4	
18	1,477	3.89	4.0	
19	10,380	75.00	10.9	Upper Marker

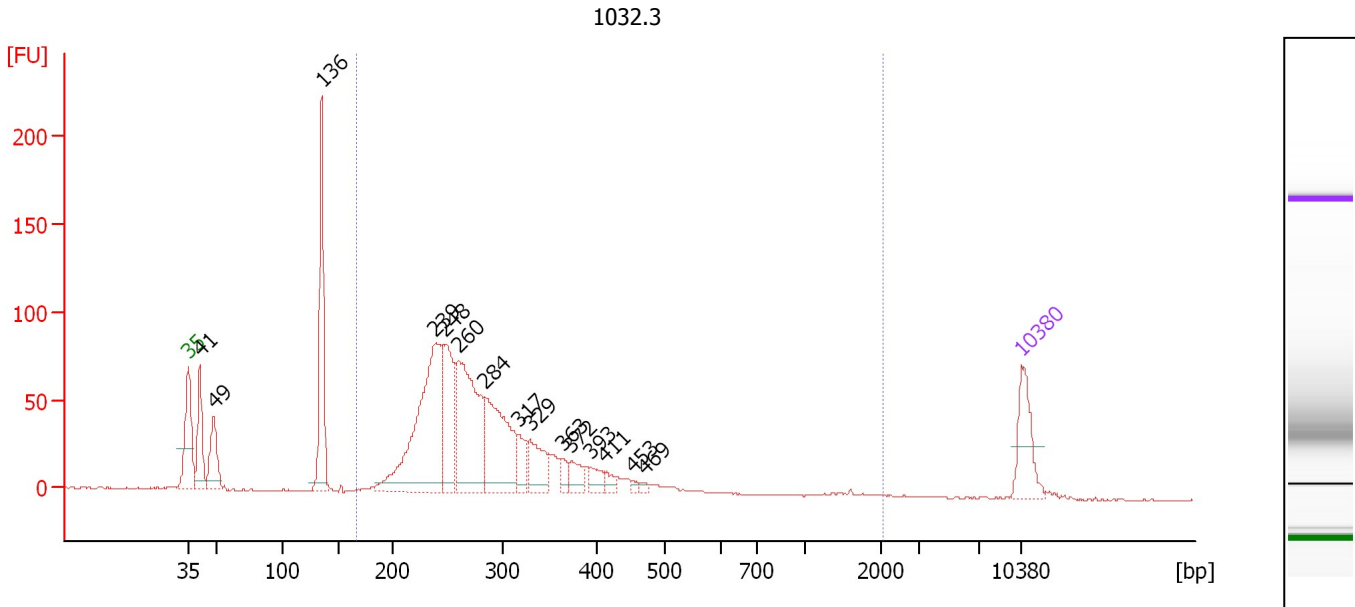
**Region table for sample 2 : 1031.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
175	360	2,012	3,337.4	99	53.4	4,032.55	20,295.4	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1032.3**

Number of peaks found: 15                      Corr. Area 1: 1,243.9  
 Noise: 0.4

**Peak table for sample 3 : 1032.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	142.56	5,224.8	
3	49	122.68	3,806.2	
4	136	308.90	3,446.0	
5	239	499.14	3,167.6	
6	248	196.52	1,200.4	
7	260	354.89	2,069.7	
8	284	260.94	1,390.7	
9	317	50.29	240.2	
10	329	85.98	395.9	
11	363	22.53	94.0	
12	372	37.83	154.0	
13	393	29.75	114.7	
14	411	18.45	68.0	
15	453	6.23	20.8	
16	469	7.73	25.0	
17	10,380	75.00	10.9	Upper Marker

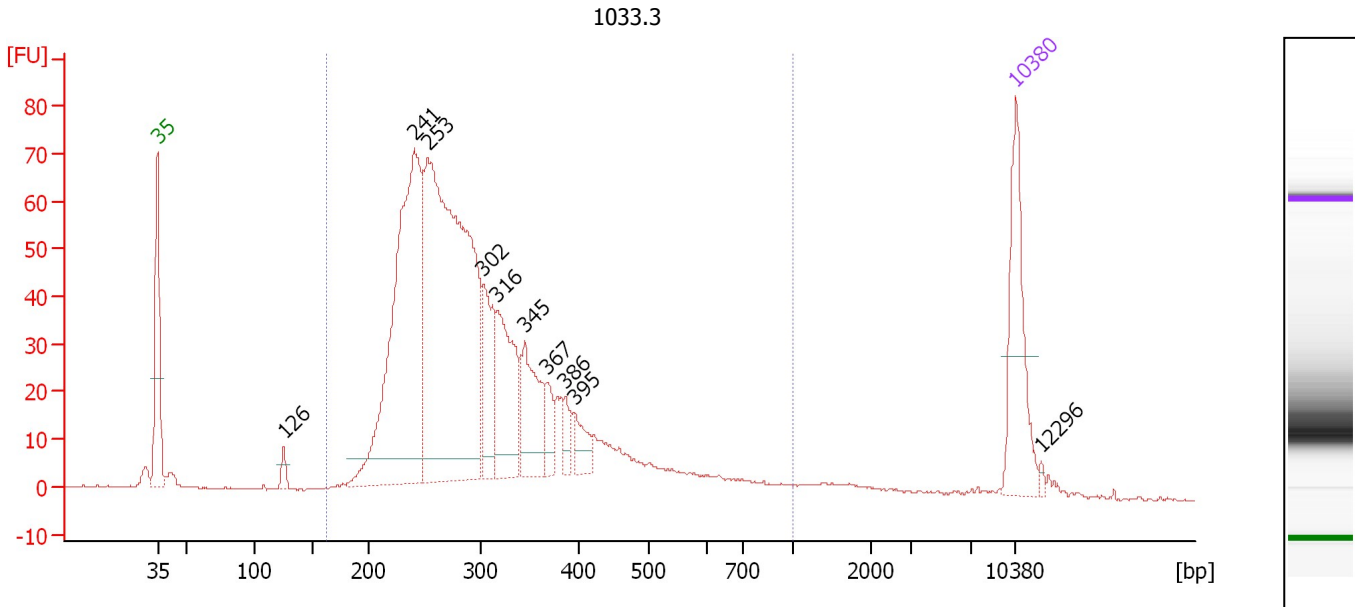
**Region table for sample 3 : 1032.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
167	311	2,018	1,243.9	78	52.9	1,727.05	9,467.1	Blue

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1033.3**

Number of peaks found: 10      Corr. Area 1: 1,196.6  
 Noise: 0.2

**Peak table for sample 4 : 1033.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	11.18	134.7	
3	241	402.22	2,532.0	
4	253	565.62	3,390.6	
5	302	74.81	375.0	
6	316	109.46	524.7	
7	345	72.45	318.4	
8	367	24.51	101.2	
9	386	14.65	57.5	
10	395	22.18	85.0	
11	10,380	75.00	10.9	Upper Marker
12	12,296	0.00	0.0	

**Region table for sample 4 : 1033.3**

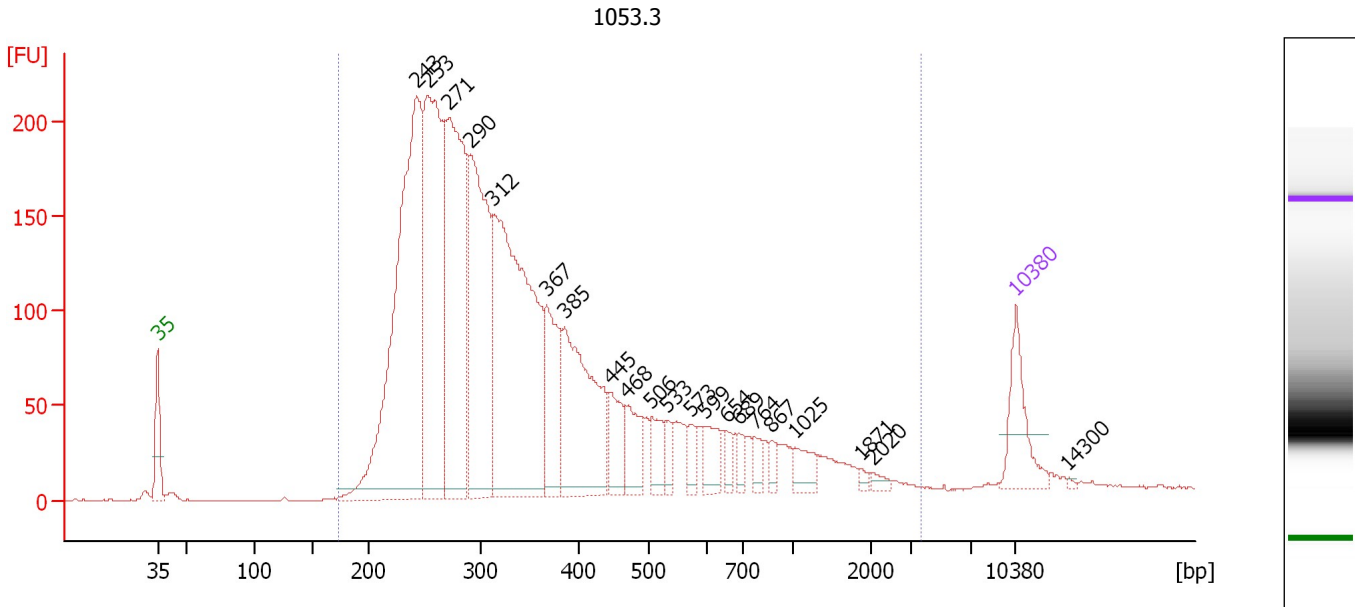
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
163	314	1,000	1,196.6	94	33.6	1,521.59	8,098.7	Blue



Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 1053.3**

Number of peaks found: 21                      Corr. Area 1: 4,504.6  
 Noise: 0.2


**Peak table for sample 5 : 1053.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	243	867.93	5,413.4	
3	253	588.30	3,521.8	
4	271	552.37	3,083.7	
5	290	462.63	2,415.3	
6	312	738.93	3,587.6	
7	367	160.02	660.1	
8	385	305.37	1,200.8	
9	445	78.04	265.8	
10	468	70.16	227.2	
11	506	47.94	143.6	
12	533	23.30	66.2	
13	573	27.08	71.6	
14	599	48.39	122.5	
15	654	17.83	41.3	
16	689	22.48	49.5	
17	764	22.44	44.5	
18	867	15.53	27.1	
19	1,025	33.21	49.1	
20	1,871	5.82	4.7	
21	2,020	8.09	6.1	
22	10,380	75.00	10.9	Upper Marker
23	14,300	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-14\2014-11-14\_002.xad

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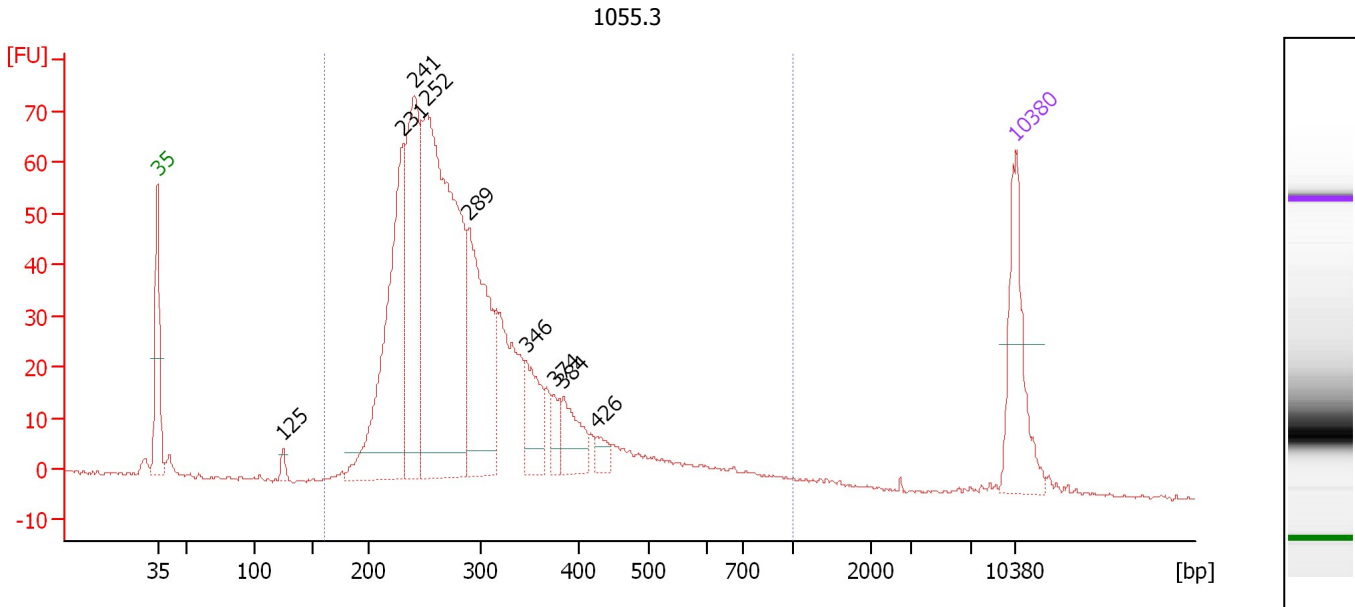
**Electropherogram Summary Continued ...****... Region table for sample 5 : 1053.3**

<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>% of Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/<math>\mu</math>l]</b>	<b>Molarity [pmol/l]</b>	<b>Co lor</b>
174	407	3,722	4,504.6	99	75.9	4,237.38	20,674.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-14\2014-11-14\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 1055.3**

Number of peaks found: 9                      Corr. Area 1: 1,141.7  
 Noise: 0.4

**Peak table for sample 6 : 1055.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	125	8.96	108.3	
3	231	280.68	1,843.8	
4	241	236.99	1,490.9	
5	252	539.45	3,242.8	
6	289	210.54	1,102.8	
7	346	59.30	259.7	
8	374	18.88	76.4	
9	384	45.48	179.3	
10	426	13.40	47.6	
11	10,380	75.00	10.9	Upper Marker

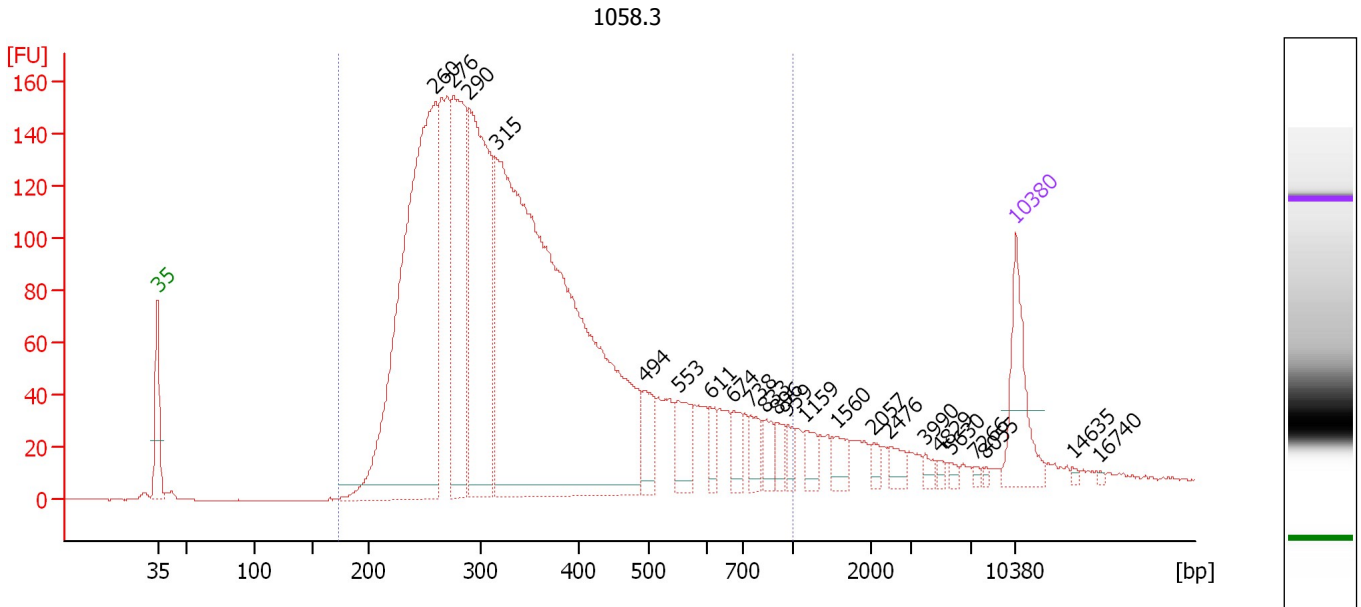
**Region table for sample 6 : 1055.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	308	1,000	1,141.7	97	34.5	1,674.87	9,088.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-14\2014-11-14\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 1058.3**

Number of peaks found: 23                      Corr. Area 1: 3,490.8  
 Noise: 0.2


**Peak table for sample 7 : 1058.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	867.15	5,061.6	
3	276	326.72	1,796.0	
4	290	434.27	2,272.0	
5	315	1,405.32	6,752.1	
6	494	49.54	151.8	
7	553	51.13	140.2	
8	611	22.41	55.6	
9	674	26.83	60.4	
10	738	29.70	61.0	
11	833	21.84	39.7	
12	896	18.19	30.7	
13	959	16.59	26.2	
14	1,159	21.05	27.5	
15	1,560	19.55	19.0	
16	2,057	8.94	6.6	
17	2,476	14.71	9.0	
18	3,990	8.42	3.2	
19	4,829	4.56	1.4	
20	5,630	5.39	1.5	
21	7,266	3.85	0.8	
22	8,055	2.86	0.5	
23	10,380	75.00	10.9	Upper Marker
24	14,635	0.00	0.0	
25	16,740	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-14\2014-11-14\_002.xad

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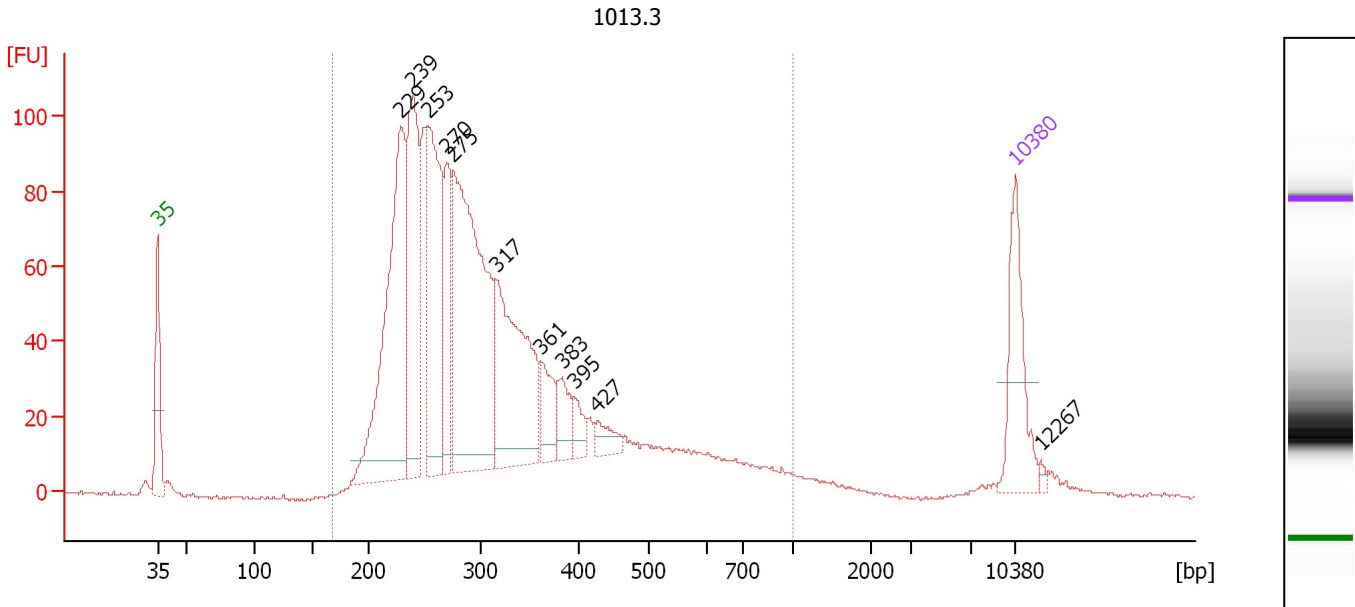
**Electropherogram Summary Continued ...****... Region table for sample 7 : 1058.3**

<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>% of Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/<math>\mu</math>l]</b>	<b>Molarity [pmol/l]</b>	<b>Co lor</b>
174	368	1,000	3,490.8	92	39.7	3,540.37	16,939.0	

Assay Class: High Sensitivity DNA Assay  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 1013.3**

Number of peaks found: 11      Corr. Area 1: 1,830.8  
 Noise: 0.5

**Peak table for sample 8 : 1013.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	229	357.77	2,370.7	
3	239	220.08	1,395.1	
4	253	234.35	1,403.4	
5	270	100.87	566.9	
6	275	410.28	2,258.1	
7	317	224.85	1,075.5	
8	361	47.70	200.1	
9	383	36.02	142.5	
10	395	21.79	83.6	
11	427	20.88	74.1	
12	10,380	75.00	10.9	Upper Marker
13	12,267	0.00	0.0	

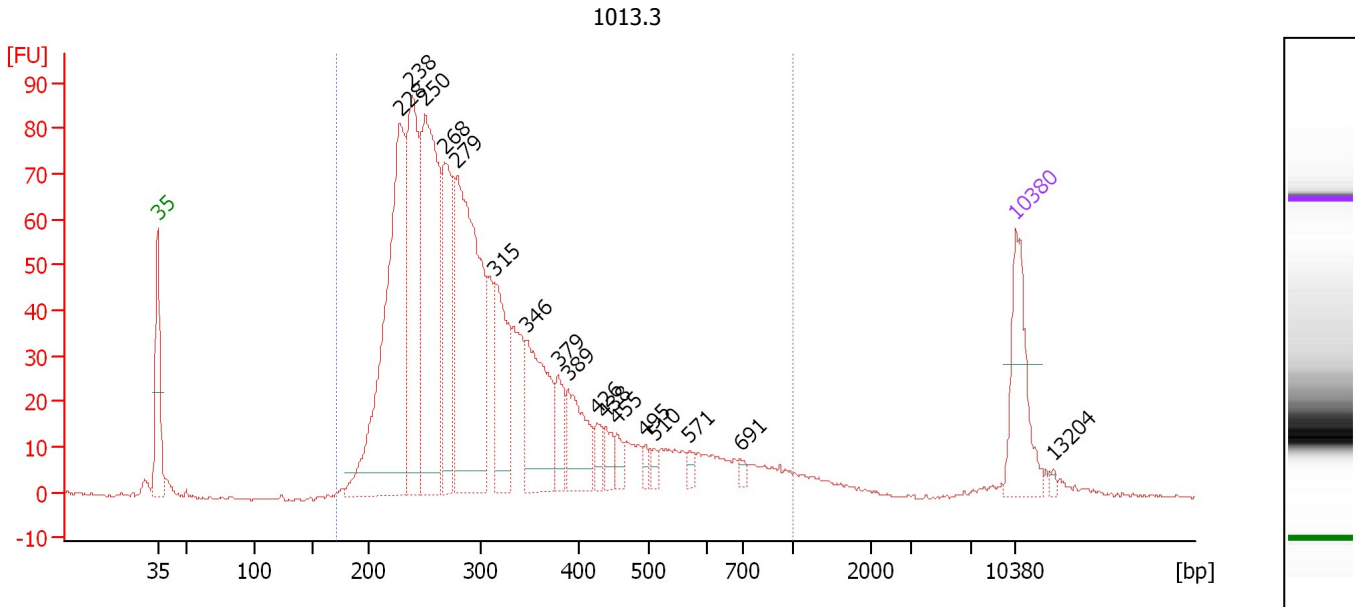
**Region table for sample 8 : 1013.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
169	327	1,000	1,830.8	97	38.7	2,185.89	11,512.6	Blue

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 1013.3**

Number of peaks found: 17      Corr. Area 1: 1,505.6  
 Noise: 0.4

**Peak table for sample 9 : 1013.3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	228	443.07	2,947.6	
3	238	242.70	1,543.9	
4	250	346.09	2,096.2	
5	268	168.02	950.4	
6	279	374.35	2,034.4	
7	315	124.71	599.7	
8	346	138.61	606.9	
9	379	40.89	163.6	
10	389	74.27	289.3	
11	426	19.16	68.1	
12	438	17.09	59.1	
13	455	15.92	53.0	
14	495	9.53	29.2	
15	510	8.86	26.3	
16	571	8.40	22.3	
17	691	5.77	12.6	
18	10,380	75.00	10.9	Upper Marker
19	13,204	0.00	0.0	

**Region table for sample 9 : 1013.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
172	326	1,000	1,505.6	97	39.0	2,362.61	12,497.3	Blue

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**Gel Image**



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**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		11/14/2014 6:03:56 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-14\2014-11-14_002.xad)		Instrument	Run		11/14/2014 5:28:26 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/14/2014 5:28:26 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/14/2014 5:28:26 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/14/2014 5:28:26 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/14/2014 5:28:26 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/14/2014 5:28:26 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/14/2014 5:28:26 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1