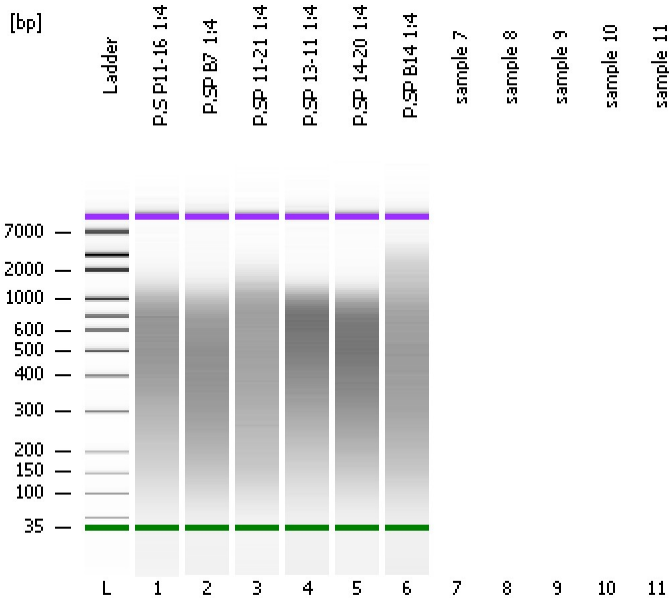


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
Modified: 7/6/2015 1:22:32 PM

**Electrophoresis File Run Summary**



Instrument Information:

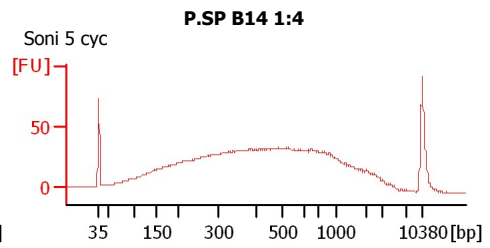
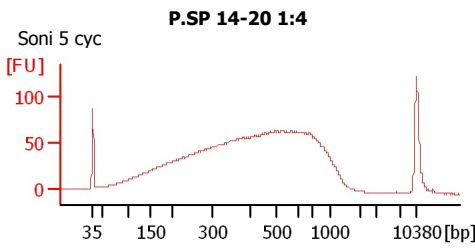
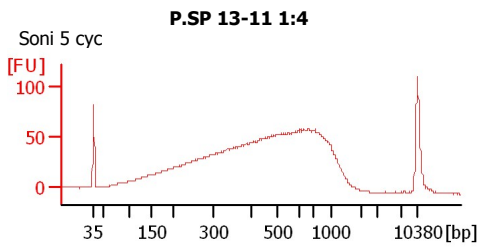
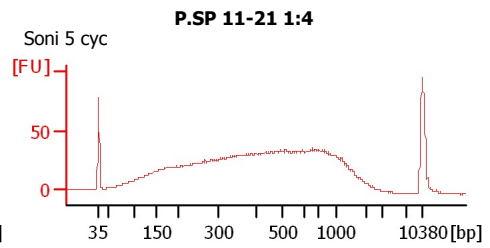
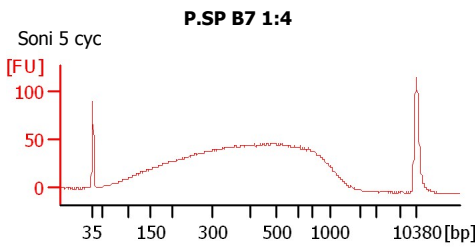
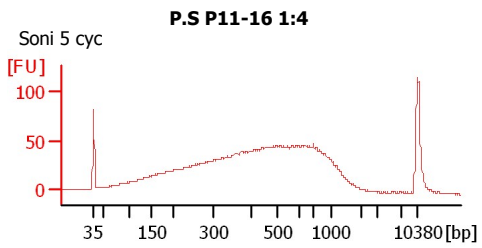
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P.S P11-16 1:4	Soni 5 cyc	<input type="checkbox"/>	✓			
P.SP B7 1:4	Soni 5 cyc	<input type="checkbox"/>	✓			
P.SP 11-21 1:4	Soni 5 cyc	<input type="checkbox"/>	✓			
P.SP 13-11 1:4	Soni 5 cyc	<input type="checkbox"/>	✓			
P.SP 14-20 1:4	Soni 5 cyc	<input type="checkbox"/>	✓			
P.SP B14 1:4	Soni 5 cyc	<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>				
sample 8		<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:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 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

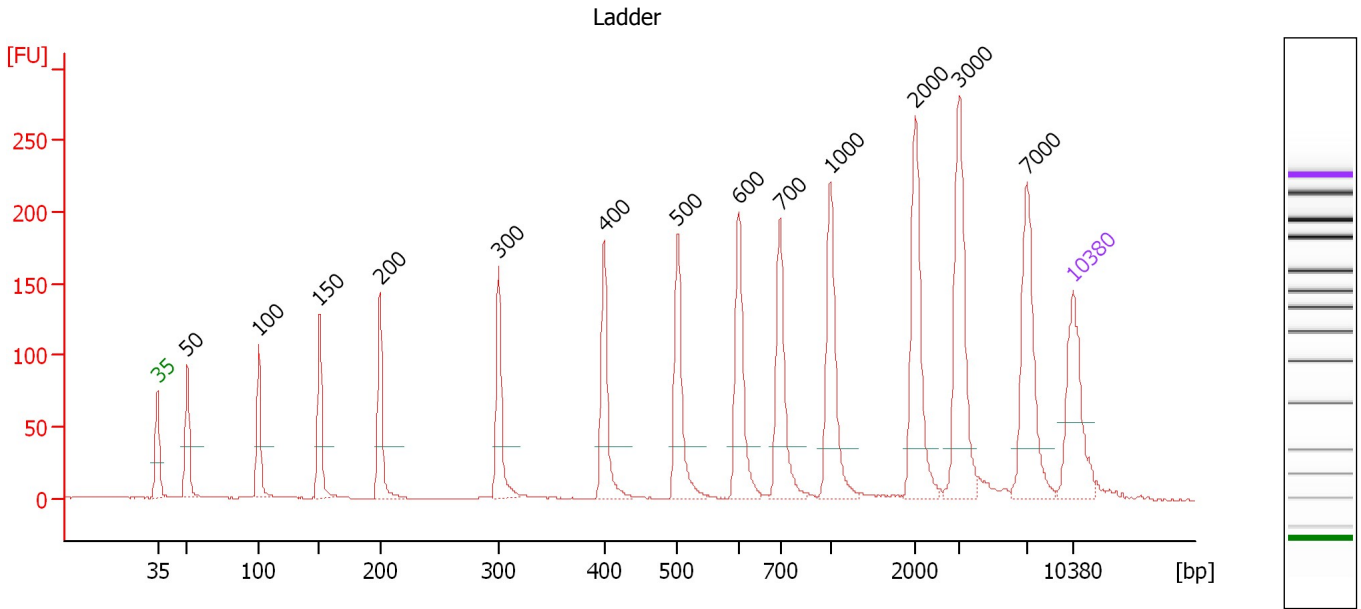
**Ladder**

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\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

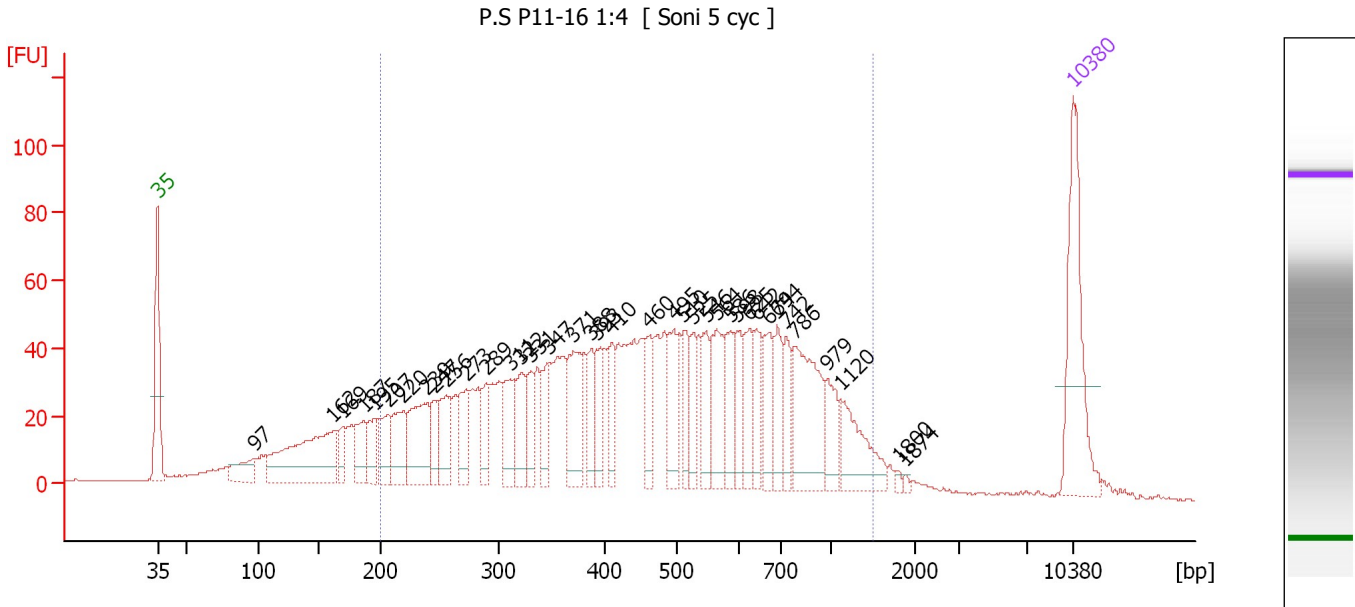
**Peak table for Ladder**

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.73
4	150	150.00	1,515.2	Ladder Peak	55.37
5	200	150.00	1,136.4	Ladder Peak	60.01
6	300	150.00	757.6	Ladder Peak	69.07
7	400	150.00	568.2	Ladder Peak	77.14
8	500	150.00	454.5	Ladder Peak	82.77
9	600	150.00	378.8	Ladder Peak	87.45
10	700	150.00	324.7	Ladder Peak	90.58
11	1,000	150.00	227.3	Ladder Peak	94.45
12	2,000	150.00	113.6	Ladder Peak	100.93
13	3,000	150.00	75.8	Ladder Peak	104.33
14	7,000	150.00	32.5	Ladder Peak	109.48
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : P.S P11-16 1:4**

Number of peaks found: 38                      Corr. Area 1: 1,879.6  
 Noise: 0.2

**Peak table for sample 1 : P.S P11-16 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	97	30.14	471.8		50.38
3	162	136.08	1,275.4		56.45
4	169	19.34	173.2		57.15
5	187	32.34	262.6		58.76
6	195	28.17	218.8		59.55
7	207	35.17	257.4		60.64
8	220	44.36	306.2		61.78
9	239	67.99	430.5		63.57
10	247	23.16	142.4		64.22
11	256	38.18	226.2		65.05
12	273	35.57	197.7		66.58
13	289	28.82	150.9		68.11
14	311	38.39	186.8		69.99
15	322	35.31	166.3		70.82
16	331	25.55	116.8		71.60
17	347	25.96	113.3		72.87
18	371	56.46	230.6		74.79
19	388	26.71	104.2		76.19
20	393	30.96	119.4		76.58
21	410	26.95	99.6		77.72
22	460	29.74	98.0		80.51
23	495	46.83	143.4		82.48
24	510	27.17	80.8		83.22
25	525	26.23	75.8		83.92

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 1 : P.S P11-16 1:4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	546	29.36	81.5		84.92
27	564	46.03	123.7		85.75
28	586	33.54	86.7		86.80
29	598	27.61	69.9		87.37
30	625	31.51	76.4		88.24
31	642	27.86	65.8		88.76
32	674	32.89	73.9		89.77
33	694	31.14	68.0		90.38
34	742	23.89	48.8		91.12
35	786	83.15	160.3		91.69
36	979	26.96	41.7		94.18
37	1,120	44.88	60.7		95.23
38	1,800	2.26	1.9		99.64
39	1,874	1.57	1.3		100.12
40	10,380	75.00	10.9	Upper Marker	113.00

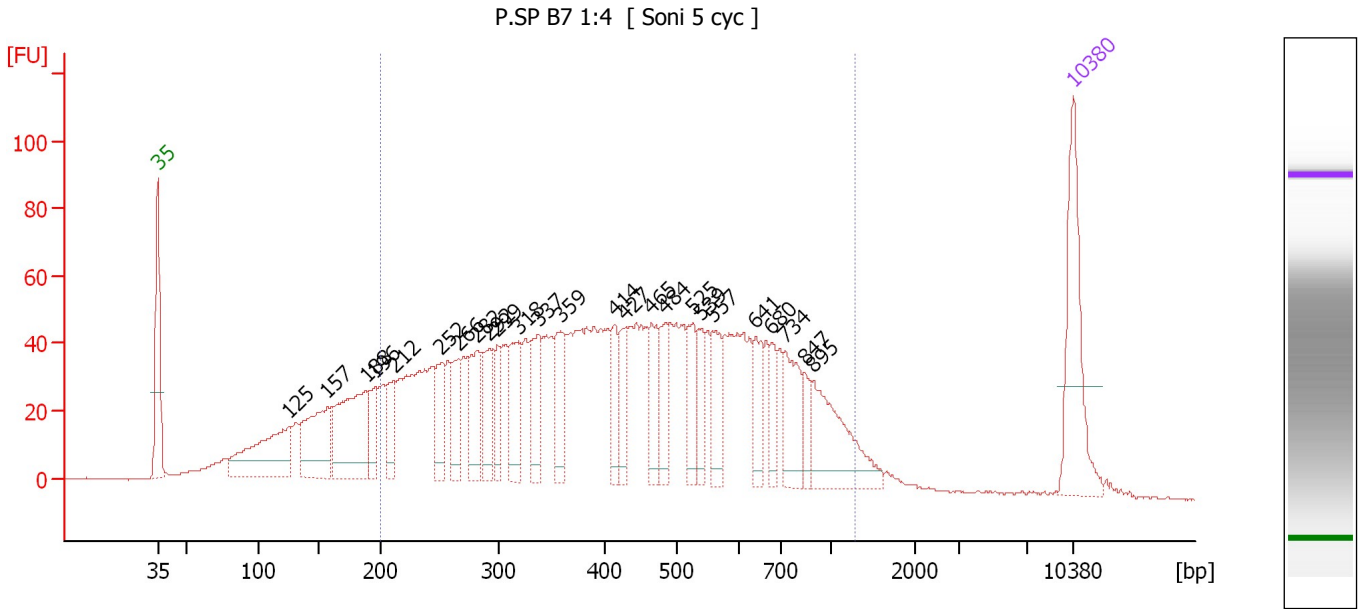
**Region table for sample 1 : P.S P11-16 1:4**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	517	1,496	1,879.6	6,167.7	81	47.7	1,596.83

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : P.SP B7 1:4**

Number of peaks found: 25                      Corr. Area 1: 2,041.7  
 Noise: 0.2

**Peak table for sample 2 : P.SP B7 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	125	115.14	1,394.0		53.06
3	157	93.71	906.9		55.98
4	188	124.63	1,002.1		58.93
5	196	33.27	257.1		59.64
6	212	34.18	244.2		61.10
7	252	39.32	236.4		64.72
8	266	39.43	224.9		65.95
9	282	57.37	308.0		67.45
10	292	45.08	233.6		68.38
11	299	32.88	166.5		69.00
12	318	52.25	248.8		70.54
13	337	47.04	211.2		72.09
14	359	43.84	185.2		73.81
15	414	31.89	116.6		77.96
16	427	29.28	103.9		78.66
17	465	42.32	138.0		80.78
18	484	35.60	111.5		81.84
19	525	35.60	102.8		83.91
20	539	26.16	73.6		84.58
21	557	36.55	99.5		85.41
22	641	32.54	76.9		88.73
23	680	23.44	52.2		89.96
24	734	48.25	99.6		91.02
25	847	15.83	28.3		92.48

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad


Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 2 : P.SP B7 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	895	79.58	134.7		93.09
27	10,380	75.00	10.9	Upper Marker	113.00

#### Region table for sample 2 : P.SP B7 1:4

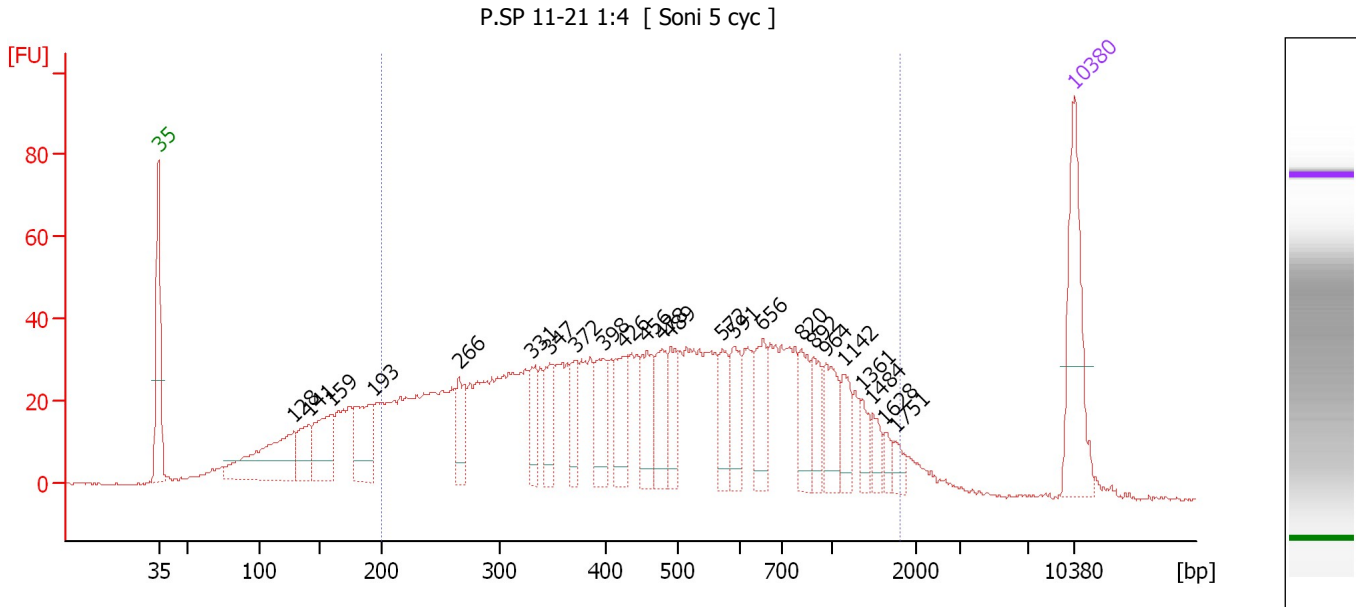
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	468	1,282	2,041.7	7,224.6	 80	44.0	1,753.85



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : P.SP 11-21 1:4**

Number of peaks found: 24                      Corr. Area 1: 1,555.0  
 Noise: 0.3

**Peak table for sample 3 : P.SP 11-21 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	128	117.02	1,387.9		53.30
3	141	40.37	434.8		54.50
4	159	68.00	646.6		56.24
5	193	66.05	517.6		59.39
6	266	39.69	226.3		65.96
7	331	33.56	153.4		71.60
8	347	39.28	171.3		72.89
9	372	30.61	124.6		74.89
10	398	46.83	178.3		76.98
11	426	42.72	151.8		78.62
12	456	46.80	155.4		80.31
13	478	43.15	136.9		81.51
14	489	33.48	103.8		82.13
15	572	33.03	87.5		86.13
16	591	34.36	88.1		87.02
17	656	40.59	93.8		89.19
18	820	34.16	63.2		92.12
19	892	28.55	48.5		93.06
20	964	37.23	58.5		93.99
21	1,142	24.40	32.4		95.37
22	1,361	13.85	15.4		96.79
23	1,484	13.34	13.6		97.59
24	1,628	7.83	7.3		98.52
25	1,751	9.92	8.6		99.32

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 3 : P.SP 11-21 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	10,380	75.00	10.9	Upper Marker	113.00

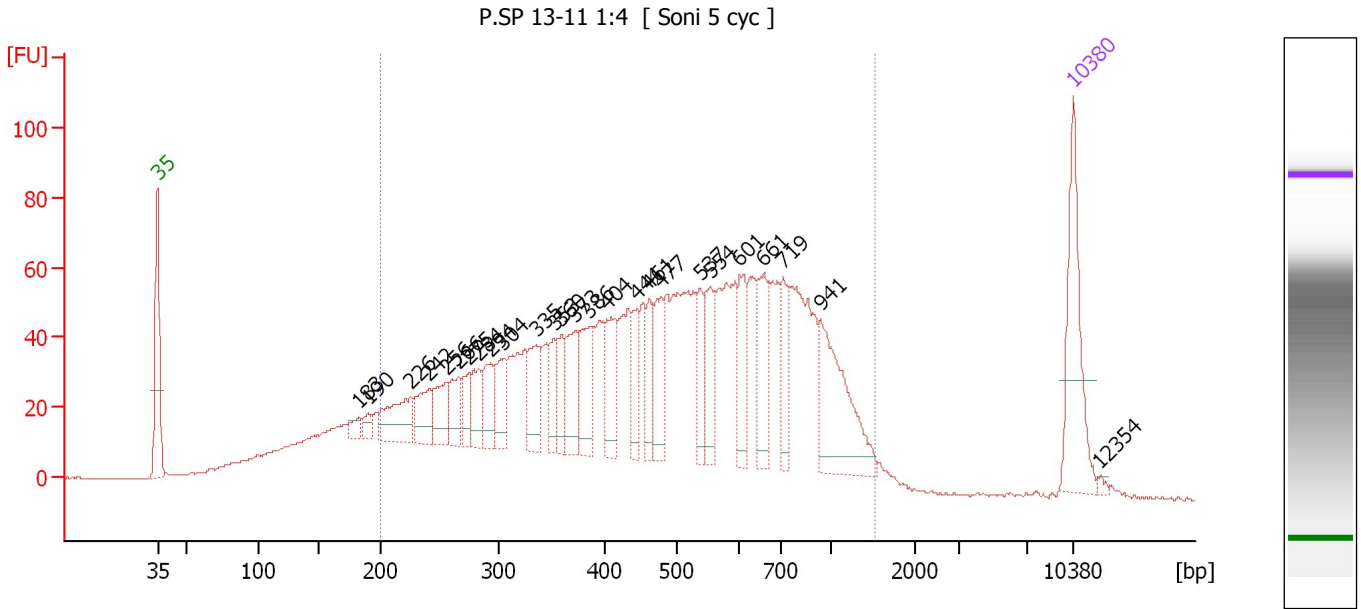
#### Region table for sample 3 : P.SP 11-21 1:4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	556	1,817	1,555.0	6,324.9	80	58.1	1,630.70

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : P.SP 13-11 1:4**

Number of peaks found: 26                      Corr. Area 1: 2,163.6  
 Noise: 0.2

**Peak table for sample 4 : P.SP 13-11 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	183	11.98	99.2		58.42
3	190	11.67	93.0		59.09
4	226	55.67	373.3		62.36
5	242	38.93	244.0		63.79
6	256	39.61	234.4		65.08
7	266	27.99	159.2		66.02
8	275	23.05	127.1		66.78
9	284	32.66	174.5		67.58
10	294	36.23	186.7		68.52
11	304	35.87	178.6		69.42
12	335	45.58	205.9		71.92
13	353	27.81	119.5		73.31
14	360	30.49	128.4		73.89
15	373	48.23	195.9		74.96
16	386	53.75	210.8		76.03
17	404	53.74	201.5		77.37
18	444	31.99	109.2		79.61
19	461	33.24	109.3		80.55
20	477	46.32	147.1		81.49
21	537	33.39	94.3		84.48
22	554	43.17	118.1		85.29
23	601	45.84	115.6		87.48
24	661	51.96	119.1		89.35
25	719	35.64	75.1		90.83

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : P.SP 13-11 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	941	100.78	162.3		93.69
27	10,380	75.00	10.9	Upper Marker	113.00
28	12,354	0.00	0.0		115.06

#### Region table for sample 4 : P.SP 13-11 1:4

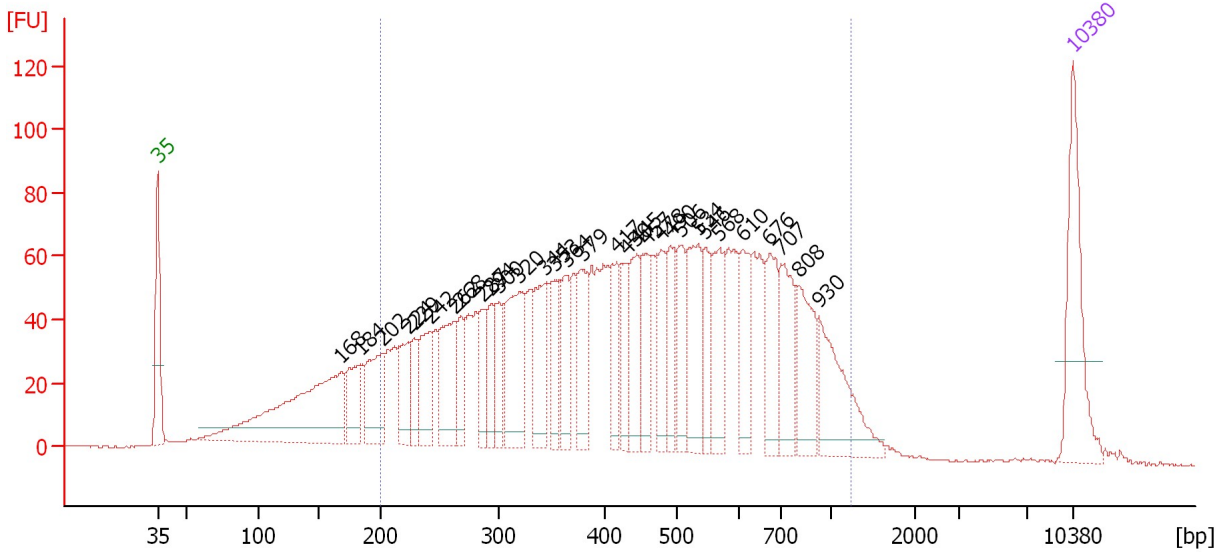
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	529	1,525	2,163.6	8,047.9	87	46.5	2,138.63

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary Continued ...**

P.SP 14-20 1:4 [ Soni 5 cyc ]



**Overall Results for sample 5 : P.SP 14-20 1:4**

Number of peaks found: 31                      Corr. Area 1: 2,543.1  
 Noise: 0.2

**Peak table for sample 5 : P.SP 14-20 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	168	229.92	2,070.3		57.06
3	184	54.38	448.4		58.50
4	202	72.86	545.9		60.21
5	224	44.94	304.6		62.14
6	229	31.84	211.1		62.59
7	242	57.28	358.8		63.80
8	262	80.06	462.6		65.64
9	268	34.93	197.4		66.18
10	287	35.63	188.1		67.89
11	294	38.97	200.9		68.52
12	300	39.22	198.1		69.06
13	320	97.97	464.0		70.68
14	344	65.05	286.1		72.65
15	353	37.25	159.7		73.37
16	364	48.59	202.3		74.23
17	379	54.54	218.1		75.44
18	417	39.46	143.4		78.09
19	430	36.52	128.8		78.81
20	445	54.31	185.0		79.66
21	457	48.98	162.5		80.34
22	478	46.10	146.3		81.50
23	490	43.62	135.0		82.18
24	506	46.07	138.0		83.03
25	534	74.47	211.1		84.38

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : P.SP 14-20 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	546	37.56	104.2		84.92
27	568	56.76	151.4		85.95
28	610	49.29	122.5		87.75
29	676	59.92	134.4		89.82
30	707	60.42	129.5		90.67
31	808	64.44	120.9		91.97
32	930	82.50	134.4		93.55
33	10,380	75.00	10.9	Upper Marker	113.00

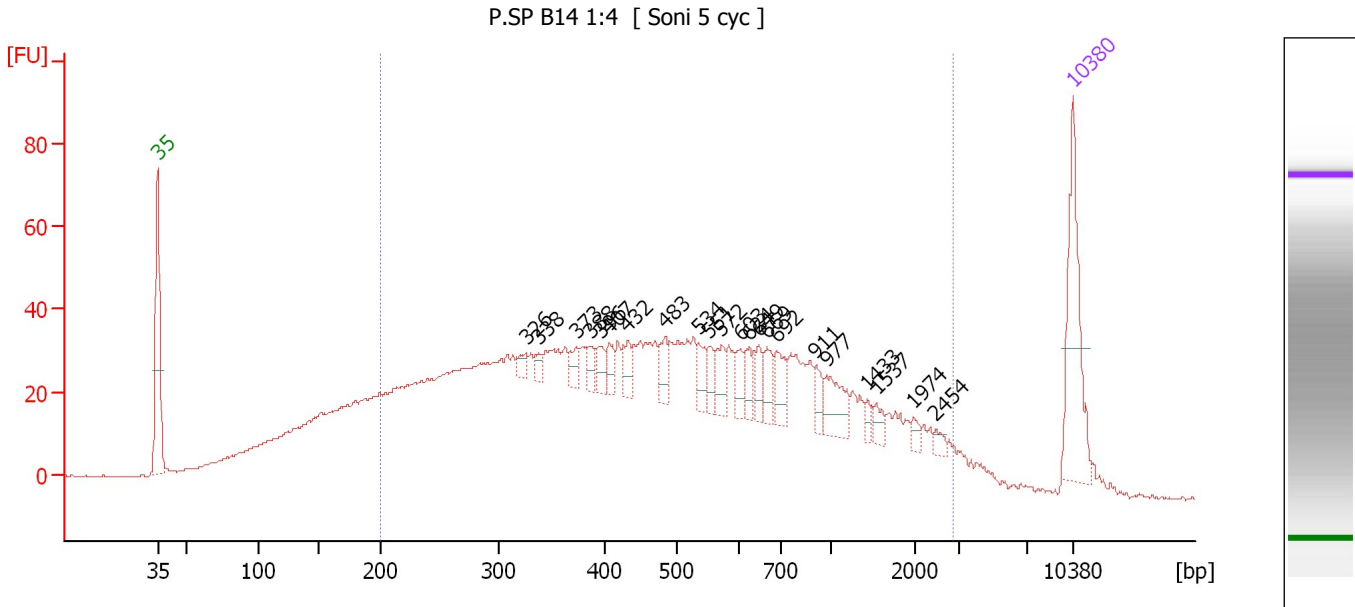
#### Region table for sample 5 : P.SP 14-20 1:4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	483	1,237	2,543.1	8,275.3	84	42.0	2,081.14

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
 Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : P.SP B14 1:4**

Number of peaks found: 22                      Corr. Area 1: 1,649.1  
 Noise: 0.2


**Peak table for sample 6 : P.SP B14 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	326	9.65	44.9		71.16
3	338	7.62	34.1		72.15
4	373	13.02	52.9		74.99
5	388	11.95	46.7		76.16
6	396	14.54	55.6		76.83
7	407	13.46	50.1		77.55
8	432	16.58	58.1		78.94
9	483	20.04	62.8		81.82
10	534	15.21	43.2		84.34
11	551	13.82	38.0		85.15
12	572	18.87	50.0		86.14
13	603	15.43	38.8		87.54
14	624	14.86	36.1		88.21
15	649	16.43	38.4		88.98
16	669	18.79	42.6		89.61
17	692	23.63	51.7		90.33
18	911	13.36	22.2		93.30
19	977	29.93	46.4		94.15
20	1,433	6.05	6.4		97.25
21	1,537	8.95	8.8		97.93
22	1,974	5.72	4.4		100.76
23	2,454	5.17	3.2		102.47
24	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
Modified: 7/6/2015 1:22:32 PM

**Electropherogram Summary Continued ...****... Region table for sample 6 :      P.SP B14 1:4**

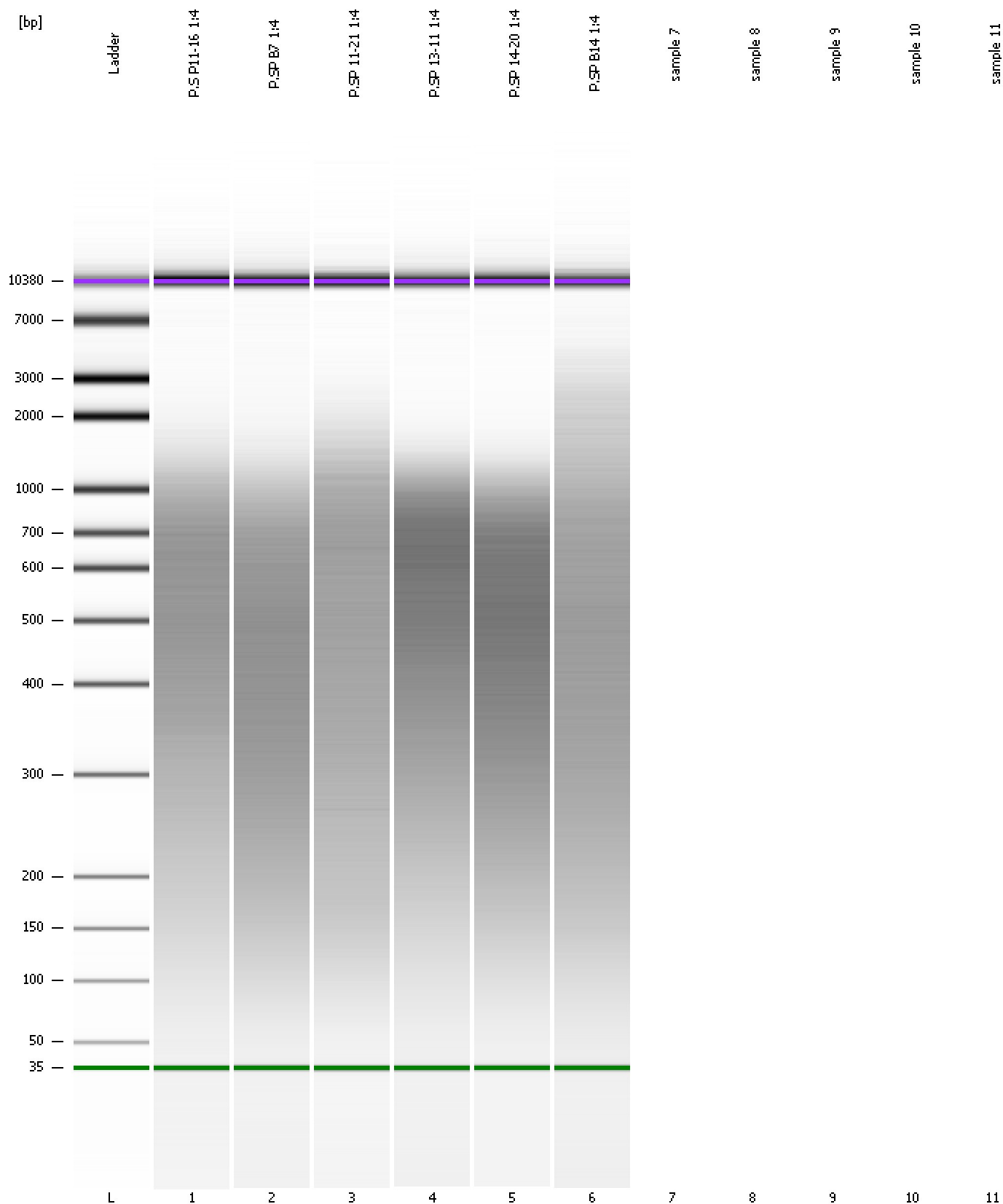
<b>From [bp]</b>	<b>Average Size [bp]</b>	<b>To [bp]</b>	<b>Corr. Area</b>	<b>Molarity [pmol/l]</b>	<b>Co % of lor Total</b>	<b>Size distribution in CV [%]</b>	<b>Conc. [pg/μl]</b>
200	636	2,838	1,649.1	8,236.1	 82	77.9	2,143.05



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
Modified: 7/6/2015 1:22:32 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-06\2015-07-06\_002.xad

Created: 7/6/2015 12:42:19 PM  
Modified: 7/6/2015 1:22:32 PM

**Invalid Samples**

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.