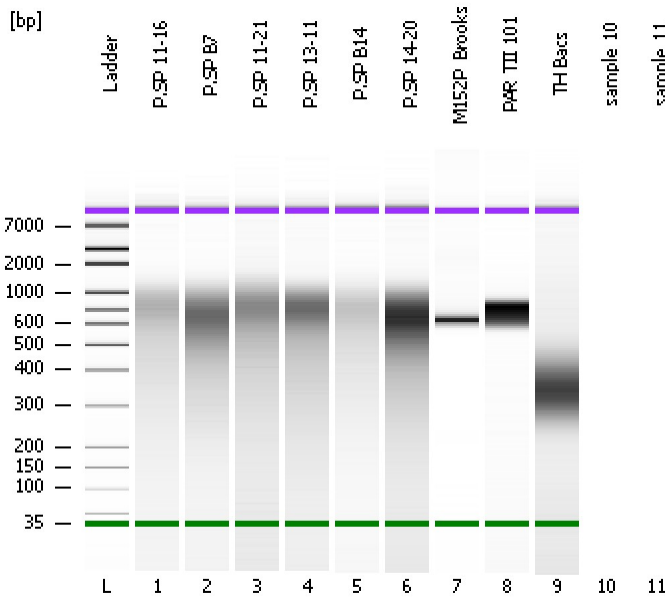


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
Modified: 7/8/2015 11:52:11 AM

**Electrophoresis File Run Summary**



Instrument Information:

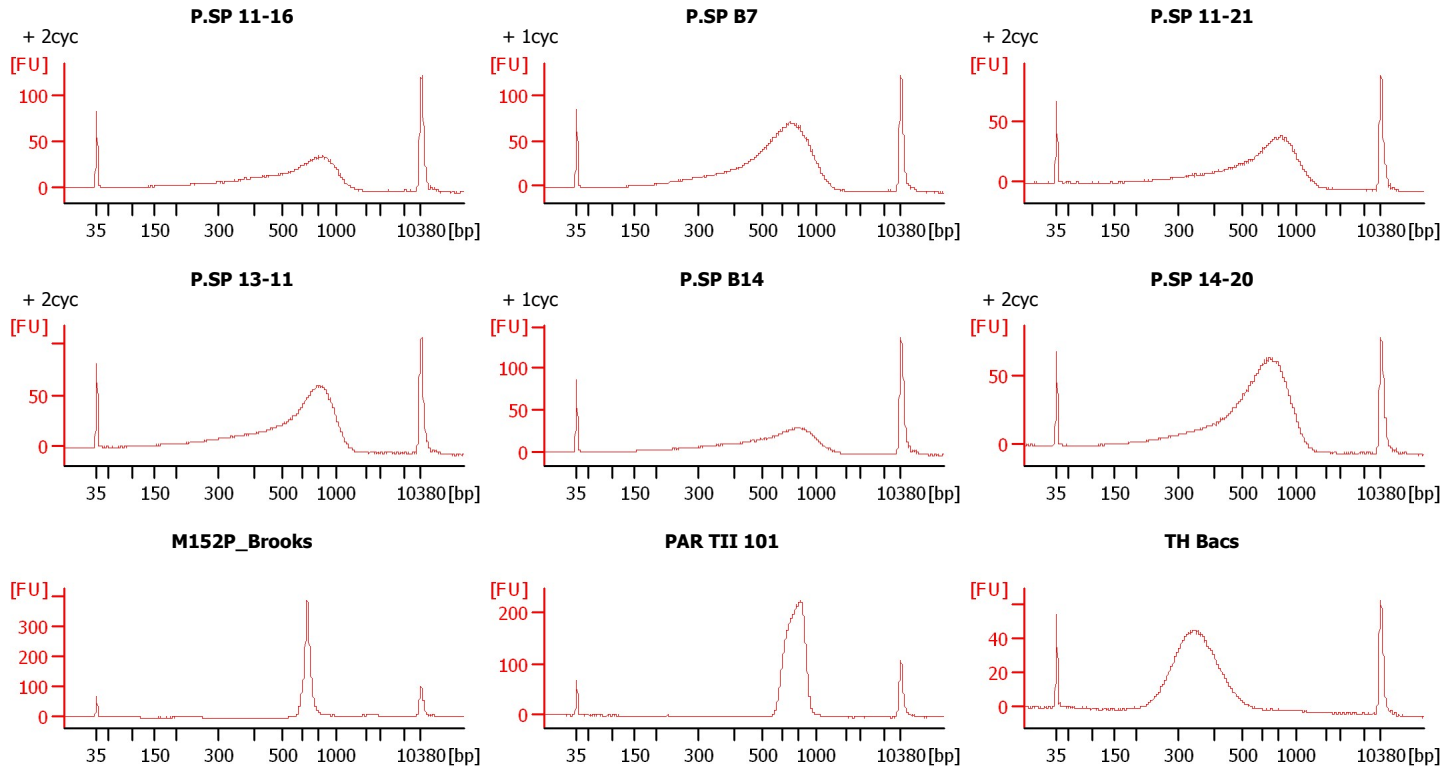
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
P.SP 11-16	+ 2cyc	<input type="checkbox"/>	✓			
P.SP B7	+ 1cyc	<input type="checkbox"/>	✓			
P.SP 11-21	+ 2cyc	<input type="checkbox"/>	✓			
P.SP 13-11	+ 2cyc	<input type="checkbox"/>	✓			
P.SP B14	+ 1cyc	<input type="checkbox"/>	✓			
P.SP 14-20	+ 2cyc	<input type="checkbox"/>	✓			
M152P_Brooks		<input type="checkbox"/>	✓			
PAR TII 101		<input type="checkbox"/>	✓			
TH Bacs		<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\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
Modified: 7/8/2015 11:52:11 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

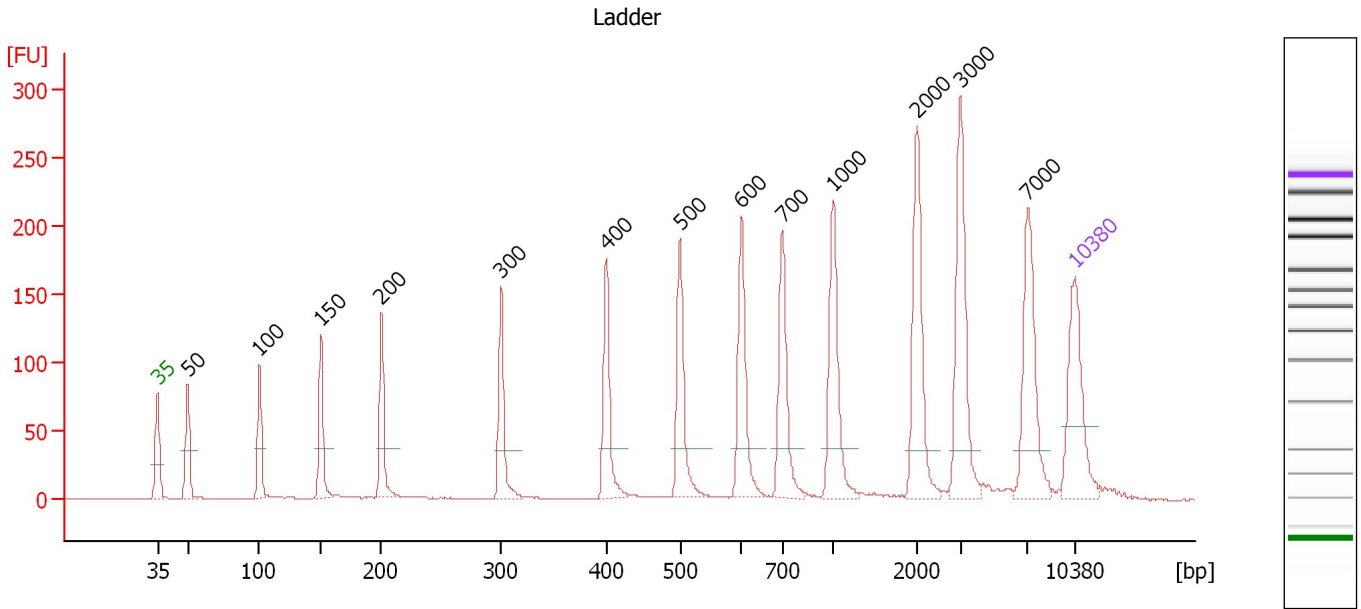
**Ladder**

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:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

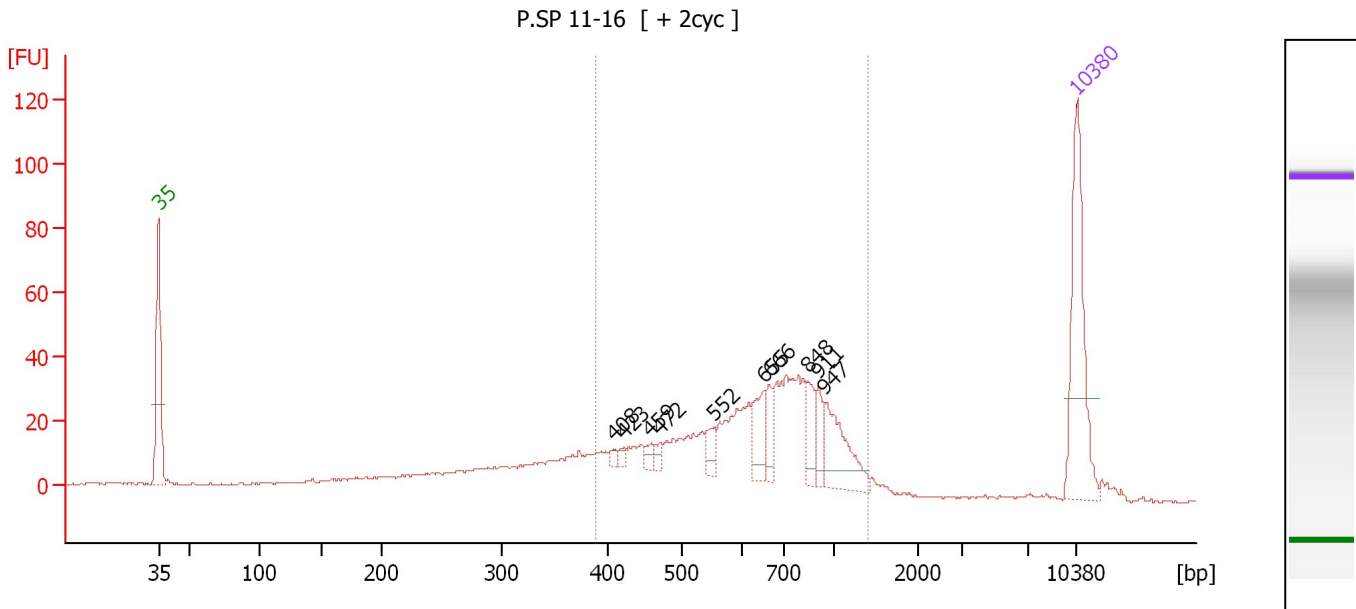
**Peak table for Ladder**

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	45.31
3	100	150.00	2,272.7	Ladder Peak	50.78
4	150	150.00	1,515.2	Ladder Peak	55.48
5	200	150.00	1,136.4	Ladder Peak	60.09
6	300	150.00	757.6	Ladder Peak	69.24
7	400	150.00	568.2	Ladder Peak	77.23
8	500	150.00	454.5	Ladder Peak	82.87
9	600	150.00	378.8	Ladder Peak	87.57
10	700	150.00	324.7	Ladder Peak	90.65
11	1,000	150.00	227.3	Ladder Peak	94.54
12	2,000	150.00	113.6	Ladder Peak	100.99
13	3,000	150.00	75.8	Ladder Peak	104.28
14	7,000	150.00	32.5	Ladder Peak	109.41
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : P.SP 11-16**

Number of peaks found: 10                      Corr. Area 1: 557.3  
 Noise: 0.3

**Peak table for sample 1 : P.SP 11-16**

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	408	3.58	13.3		77.68
3	423	4.60	16.5		78.54
4	459	5.64	18.6		80.56
5	472	6.06	19.4		81.29
6	552	12.71	34.9		85.34
7	655	25.60	59.3		89.25
8	666	15.65	35.6		89.59
9	848	17.73	31.7		92.56
10	911	15.73	26.2		93.38
11	947	43.18	69.1		93.85
12	10,380	75.00	10.9	Upper Marker	113.00

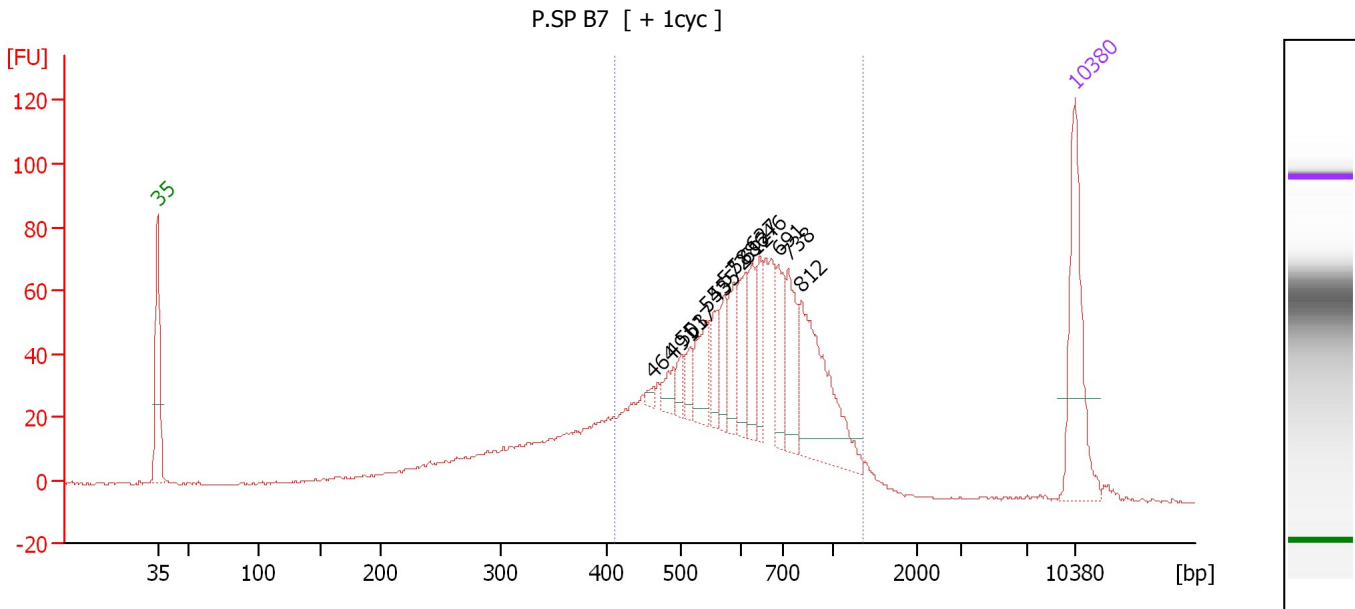
**Region table for sample 1 : P.SP 11-16**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
390	685	1,414	557.3	1,105.3	67	31.2	445.86

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 14                      Corr. Area 1: 1,090.8  
 Noise: 0.3

**Peak table for sample 2 : P.SP B7**

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	464	4.66	15.2		80.82
3	491	14.19	43.8		82.34
4	503	11.57	34.8		83.03
5	517	12.91	37.8		83.68
6	543	34.91	97.4		84.90
7	555	21.34	58.3		85.46
8	572	26.76	70.9		86.24
9	588	33.11	85.3		87.02
10	612	35.95	89.1		87.93
11	627	32.52	78.6		88.41
12	646	29.58	69.4		88.97
13	691	38.47	84.4		90.36
14	738	45.03	92.4		91.14
15	812	113.93	212.7		92.10
16	10,380	75.00	10.9	Upper Marker	113.00

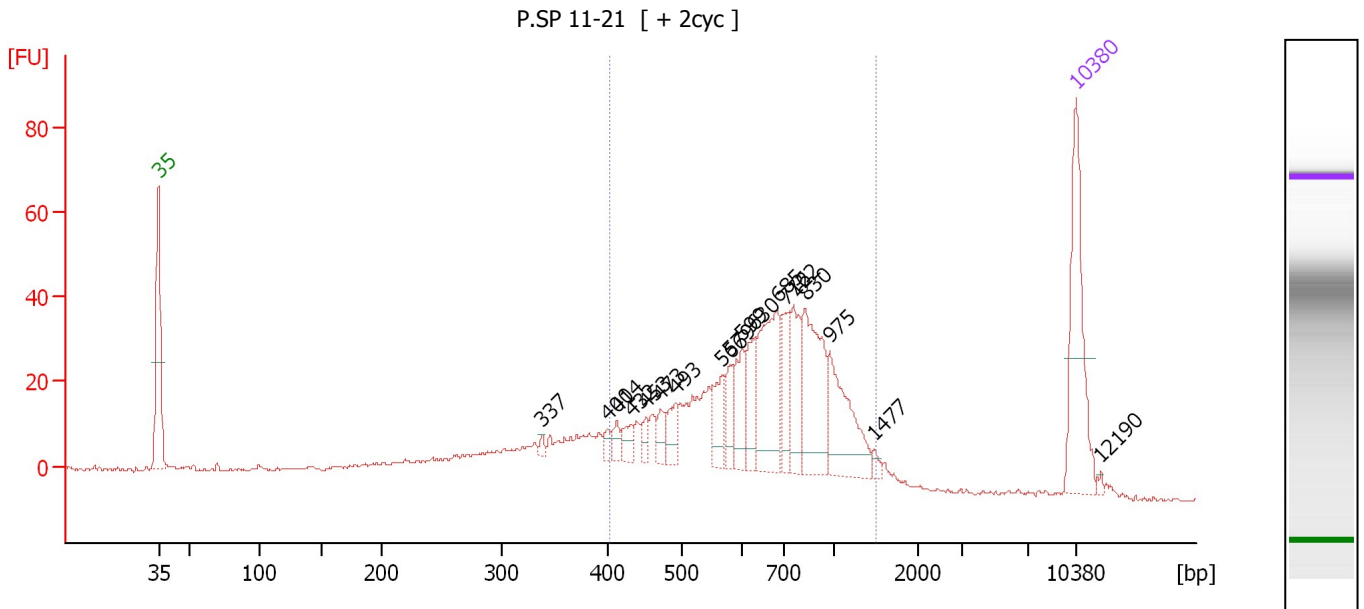
**Region table for sample 2 : P.SP B7**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
411	659	1,360	1,090.8	2,141.4	71	27.6	857.20

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 18                      Corr. Area 1: 619.3  
 Noise: 0.3

**Peak table for sample 3 : P.SP 11-21**

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	337	3.78	17.0		72.23
3	400	6.69	25.3		77.26
4	414	9.46	34.7		78.00
5	432	11.84	41.5		79.05
6	453	8.94	29.9		80.23
7	473	12.99	41.7		81.32
8	493	19.60	60.2		82.50
9	566	25.50	68.2		86.00
10	579	19.40	50.7		86.61
11	599	31.54	79.8		87.53
12	630	30.75	74.0		88.49
13	685	84.34	186.5		90.19
14	712	29.93	63.7		90.80
15	762	41.64	82.7		91.46
16	830	80.82	147.6		92.33
17	975	64.27	99.9		94.21
18	1,477	4.23	4.3		97.62
19	10,380	75.00	10.9	Upper Marker	113.00
20	12,190	0.00	0.0		114.92

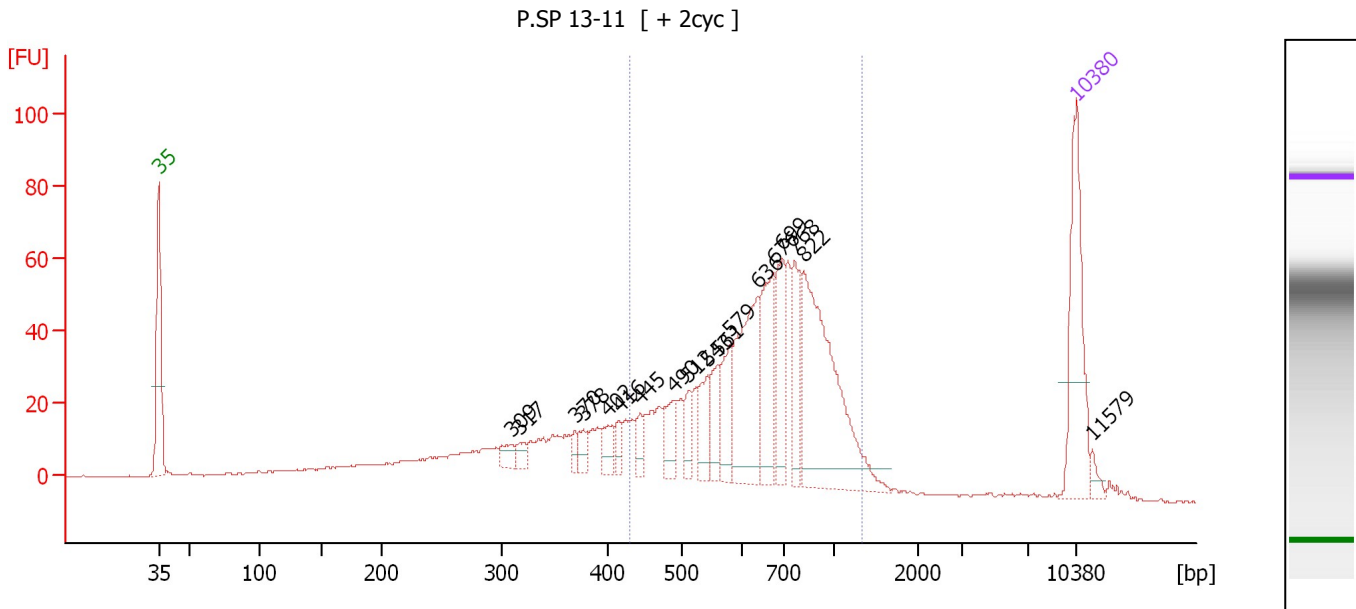
**Region table for sample 3 : P.SP 11-21**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
404	712	1,494	619.3	1,622.1	70	32.1	679.91

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



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

Number of peaks found: 18                      Corr. Area 1: 795.8  
 Noise: 0.2

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

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	309	12.37	60.8		69.92
3	317	10.65	50.9		70.58
4	370	9.18	37.6		74.79
5	378	10.80	43.3		75.45
6	402	17.44	65.7		77.34
7	416	11.22	40.9		78.13
8	445	13.47	45.9		79.76
9	490	24.35	75.3		82.30
10	512	16.91	50.0		83.45
11	543	27.27	76.1		84.89
12	561	28.43	76.8		85.73
13	579	34.92	91.4		86.56
14	636	104.25	248.5		88.67
15	676	67.25	150.8		89.90
16	699	50.27	109.0		90.60
17	768	42.43	83.8		91.53
18	822	175.07	322.8		92.23
19	10,380	75.00	10.9	Upper Marker	113.00
20	11,579	0.00	0.0		114.27

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

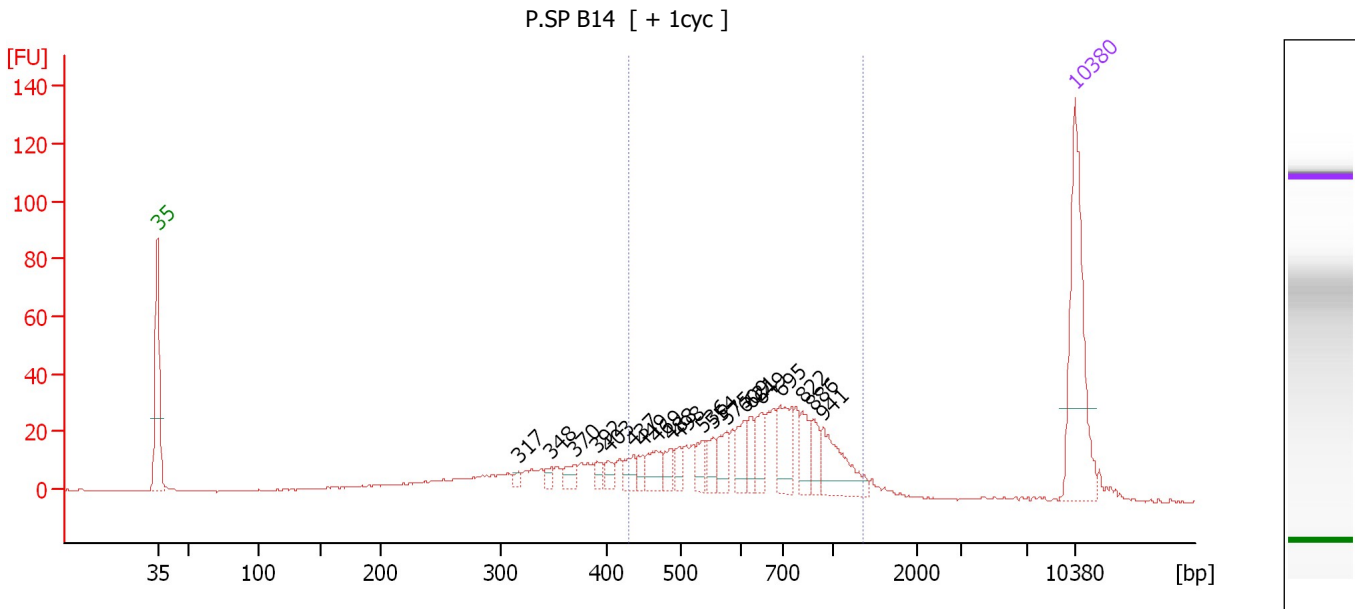
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
432	699	1,343	795.8	1,735.7	65	26.8	737.15



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : P.SP B14**

Number of peaks found: 20                      Corr. Area 1: 448.1  
 Noise: 0.2

**Peak table for sample 5 : P.SP B14**


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	317	3.79	18.1		70.57
3	348	5.13	22.4		73.04
4	370	8.83	36.1		74.85
5	392	5.85	22.6		76.57
6	403	7.21	27.1		77.40
7	437	10.55	36.6		79.30
8	449	7.76	26.2		80.01
9	469	17.30	55.9		81.11
10	488	10.59	32.9		82.17
11	498	8.12	24.7		82.79
12	536	11.96	33.8		84.55
13	554	10.52	28.8		85.39
14	575	14.78	38.9		86.40
15	609	18.54	46.1		87.86
16	621	11.98	29.2		88.21
17	649	17.45	40.7		89.09
18	695	29.99	65.3		90.50
19	822	16.51	30.4		92.22
20	886	14.46	24.7		93.06
21	941	35.13	56.6		93.77
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**

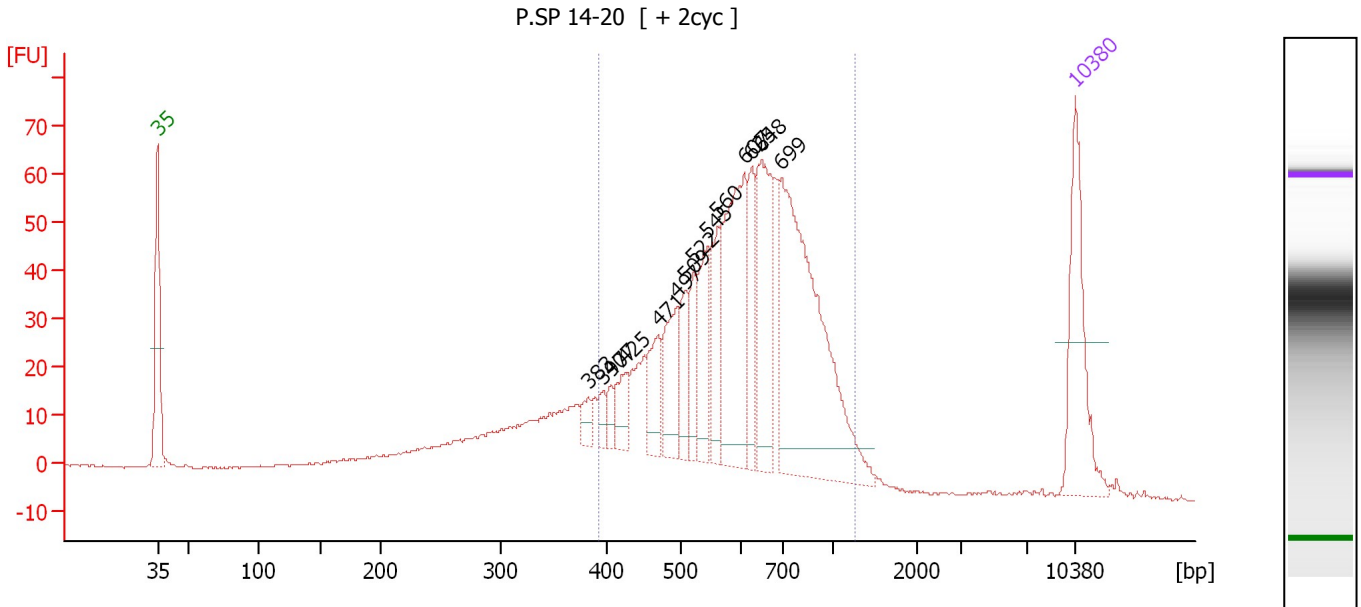
... Region table for sample 5 : P.SP B14

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ $\mu$ l]
432	689	1,352	448.1	743.8	 63	28.5	309.27

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : P.SP 14-20**

Number of peaks found: 14                      Corr. Area 1: 969.3  
 Noise: 0.2

**Peak table for sample 6 : P.SP 14-20**

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	383	13.33	52.7		75.88
3	397	10.98	41.9		76.98
4	407	11.30	42.1		77.60
5	425	24.46	87.1		78.66
6	471	39.39	126.7		81.23
7	497	55.75	170.0		82.69
8	509	34.51	102.7		83.31
9	522	30.39	88.3		83.88
10	545	52.96	147.2		84.99
11	560	46.82	126.6		85.70
12	607	141.62	353.7		87.78
13	625	44.29	107.3		88.35
14	648	104.34	243.8		89.06
15	699	277.44	601.6		90.61
16	10,380	75.00	10.9	Upper Marker	113.00

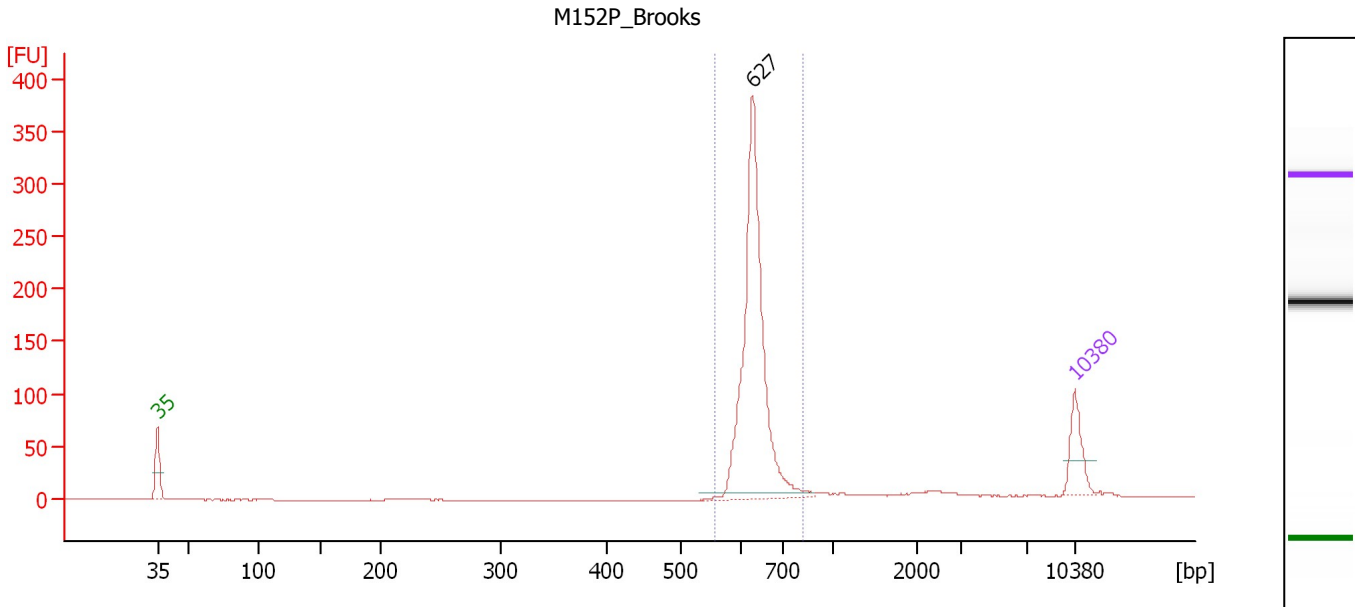
**Region table for sample 6 : P.SP 14-20**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
393	639	1,262	969.3	2,682.4	76	26.0	1,047.20

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : M152P\_Brooks**

Number of peaks found: 1                      Corr. Area 1: 699.6  
 Noise: 0.2

**Peak table for sample 7 : M152P\_Brooks**

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	627	783.98	1,896.0		88.39
3	10,380	75.00	10.9	Upper Marker	113.00

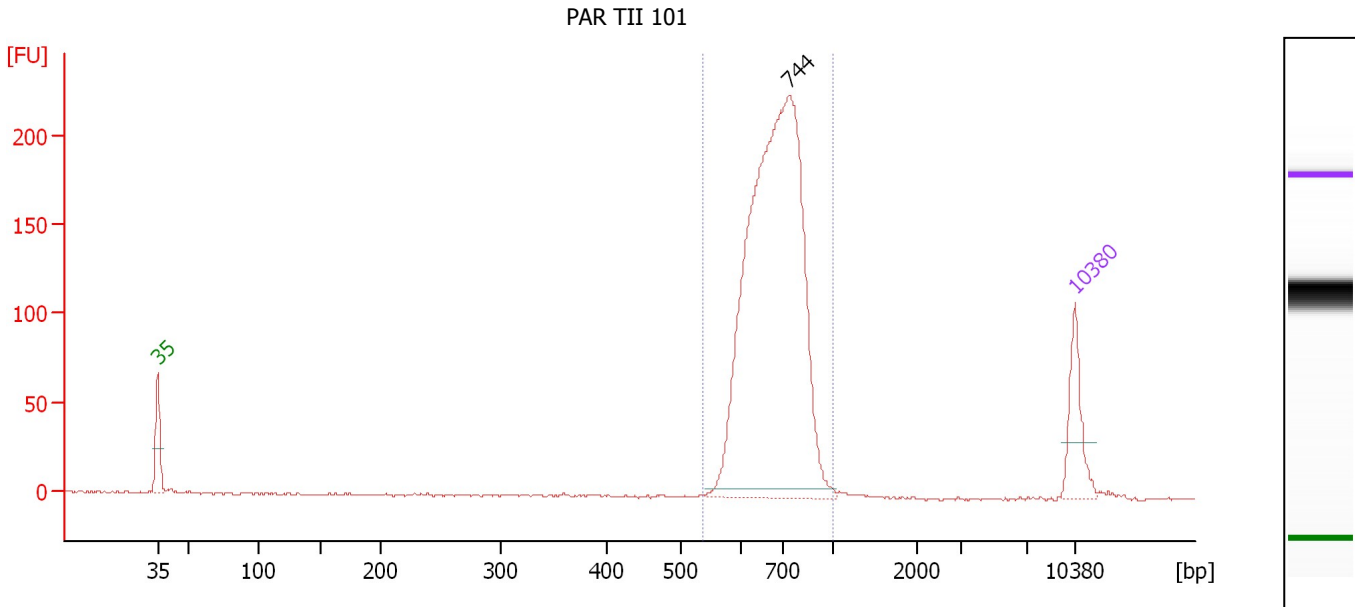
**Region table for sample 7 : M152P\_Brooks**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
558	633	821	699.6	1,819.0	95	4.9	758.30

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : PAR TII 101**

Number of peaks found: 1                      Corr. Area 1: 1,277.4  
 Noise: 0.6

**Peak table for sample 8 : PAR TII 101**

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	744	1,226.14	2,496.4		91.22
3	10,380	75.00	10.9	Upper Marker	113.00

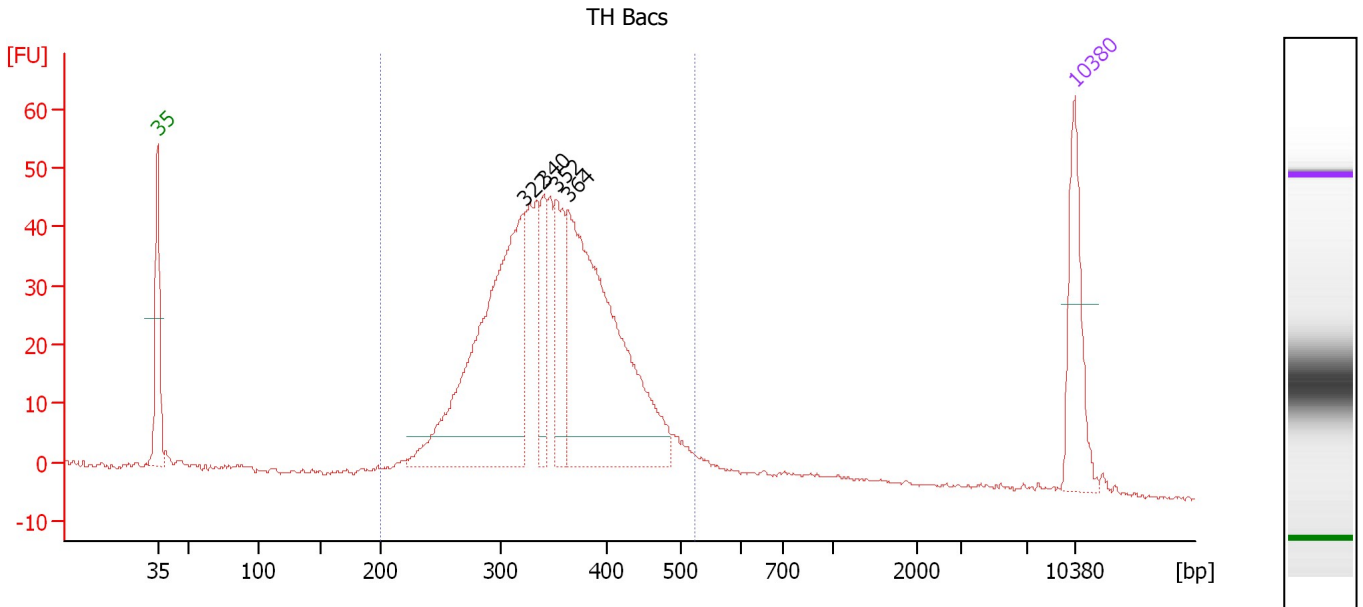
**Region table for sample 8 : PAR TII 101**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
538	700	1,000	1,277.4	2,670.5	99	11.8	1,217.38

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
 Modified: 7/8/2015 11:52:11 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : TH Bacs**

Number of peaks found: 4                      Corr. Area 1: 802.6  
 Noise: 0.3

**Peak table for sample 9 : TH Bacs**

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	322	436.61	2,054.2		71.00
3	340	63.44	282.3		72.47
4	352	92.02	395.9		73.41
5	364	436.58	1,817.9		74.34
6	10,380	75.00	10.9	Upper Marker	113.00

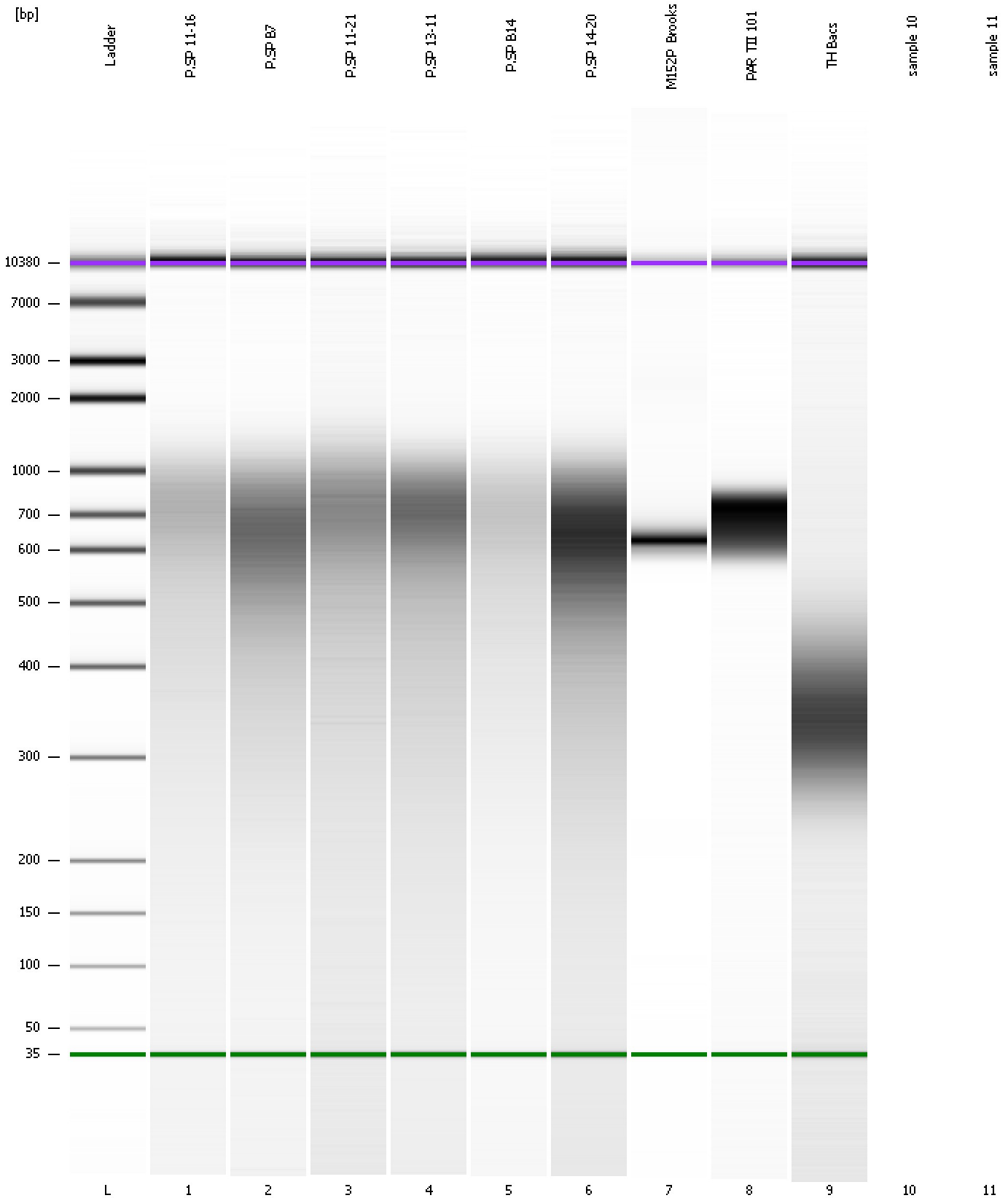
**Region table for sample 9 : TH Bacs**

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	525	802.6	6,012.1	92	17.0	1,338.46

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
Modified: 7/8/2015 11:52:11 AM

**Gel Image**



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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-08\2015-07-08\_003.xad

Created: 7/8/2015 11:16:12 AM  
Modified: 7/8/2015 11:52:11 AM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.