

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

Created: 10/9/2014 12:21:43 PM  
Modified: 10/9/2014 1:23:27 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

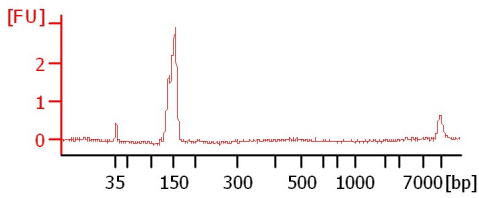
Assay Information:

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

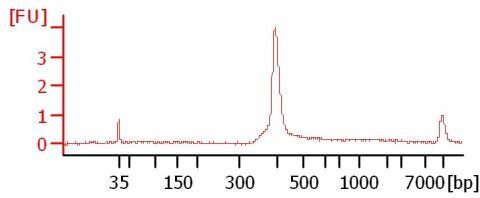
Chip Information:

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

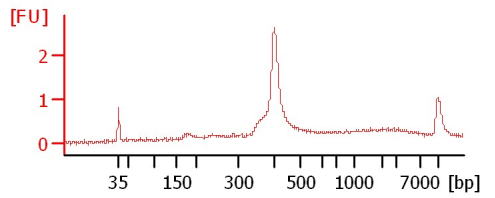
**MK SDD Pippin Prep**



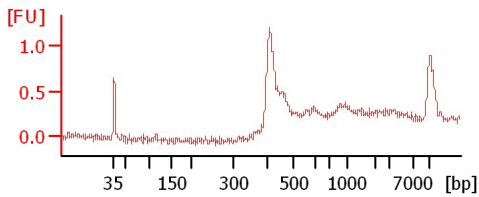
**Boyce 40**



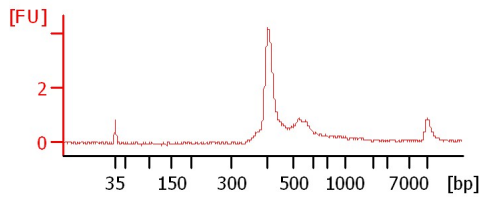
**George 30**



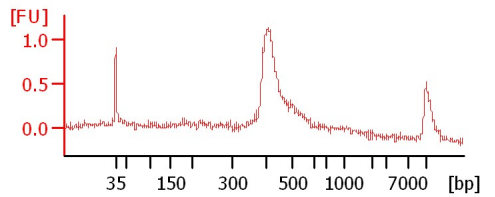
**Hirao 40**



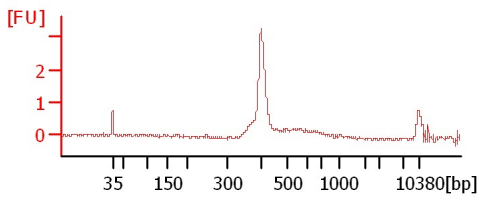
**Lopez 54**



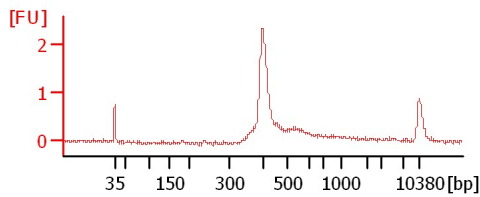
**Miller 24**



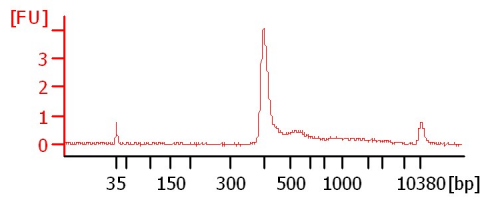
**Murphy 8**



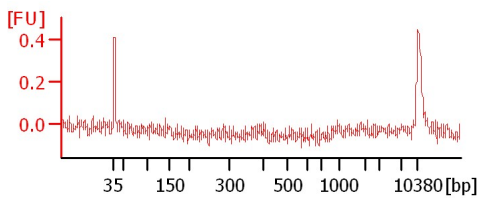
**B6H196 Pre**



**B6H196-1**



**B6H196-2**



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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MK SDD Pippin Prep		<input type="checkbox"/>	✓			
Boyce 40		<input type="checkbox"/>	✓			
George 30		<input type="checkbox"/>	✓			
Hirao 40		<input type="checkbox"/>	✓			
Lopez 54		<input type="checkbox"/>	✓			
Miller 24		<input type="checkbox"/>	✓			
Murphy 8		<input type="checkbox"/>	✓			
B6H196 Pre		<input type="checkbox"/>	✓			
B6H196-1		<input type="checkbox"/>	✓			
B6H196-2		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

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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

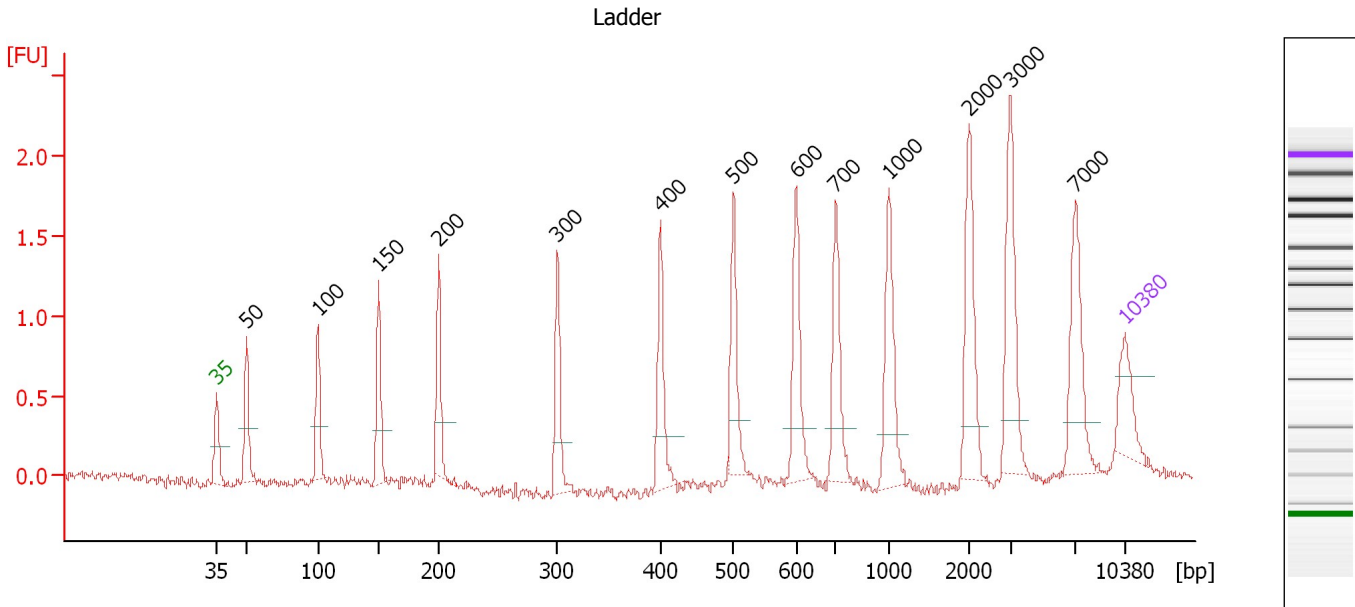
**Ladder**

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: 0.0

**Peak table for Ladder**

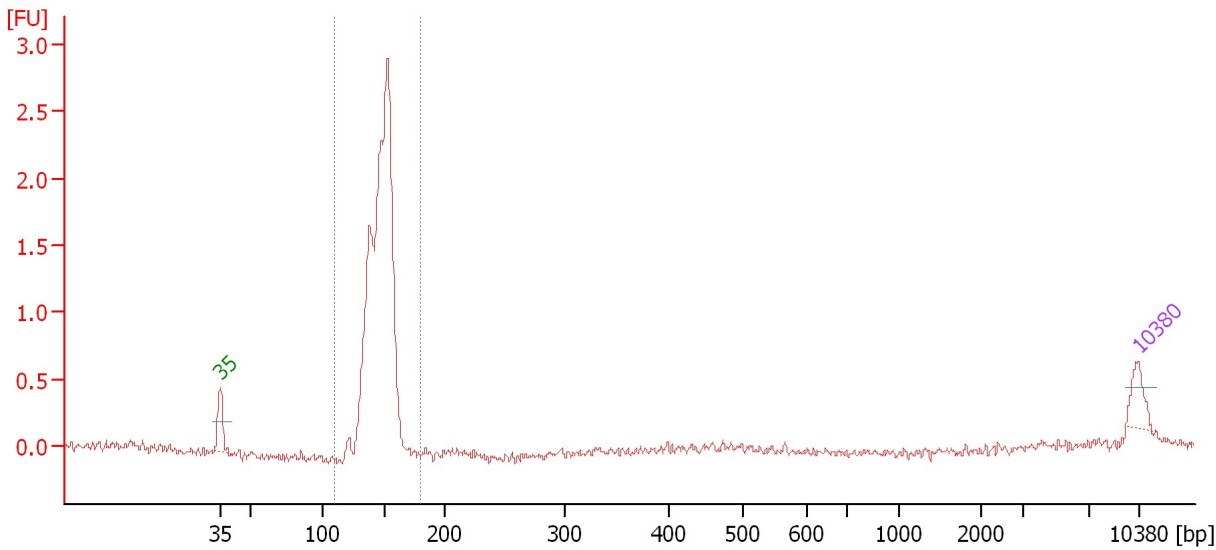
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	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 ...**

MK SDD Pippin Prep



**Overall Results for sample 1 : MK SDD Pippin Prep**

Number of peaks found: 0                      Corr. Area 1: 10.2  
 Noise: 0.0

**Peak table for sample 1 : MK SDD Pippin Prep**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

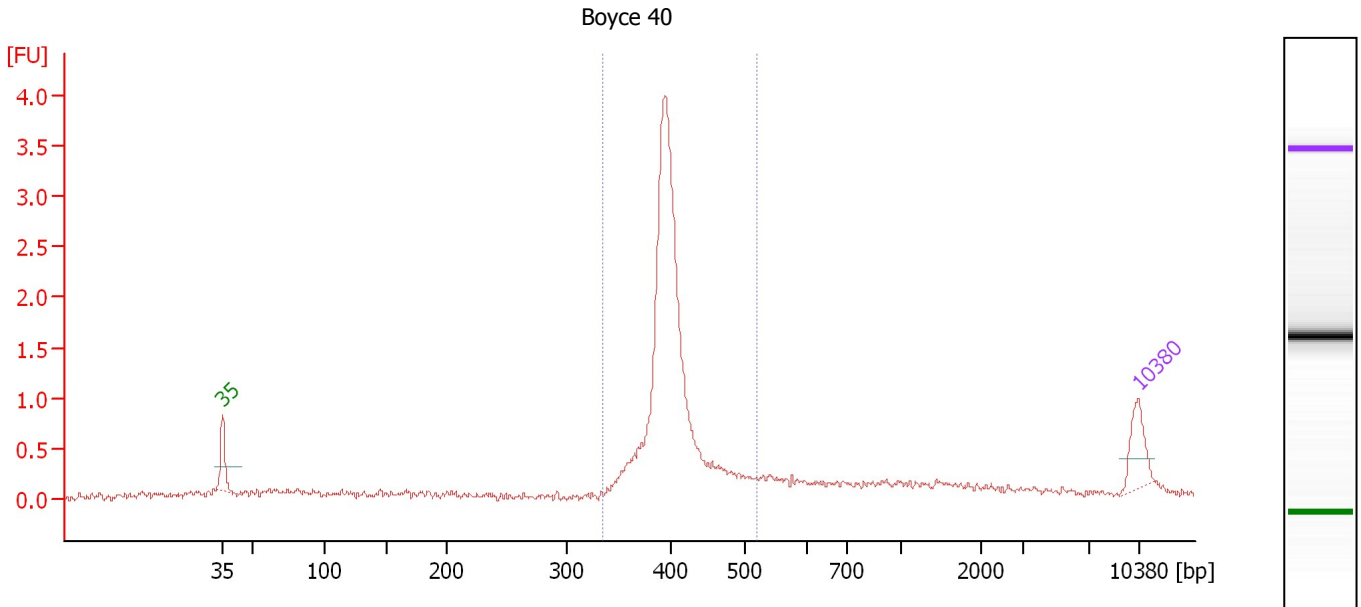
**Region table for sample 1 : MK SDD Pippin Prep**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
110	147	181	10.2	86	5.6	2,972.73	30,788.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Boyce 40**

Number of peaks found: 0                      Corr. Area 1: 13.3  
 Noise: 0.0

**Peak table for sample 2 : Boyce 40**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

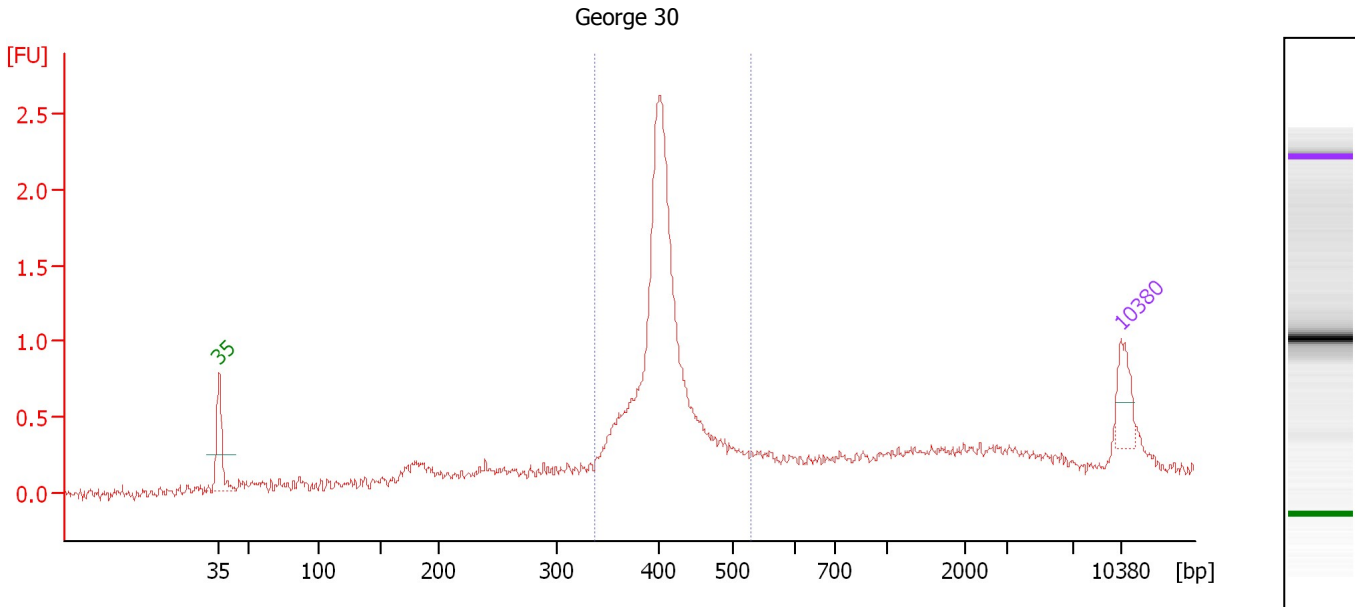
**Region table for sample 2 : Boyce 40**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
336	405	519	13.3	68	7.4	1,387.94	5,219.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : George 30**

Number of peaks found: 0                      Corr. Area 1: 10.7  
 Noise: 0.0

**Peak table for sample 3 : George 30**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

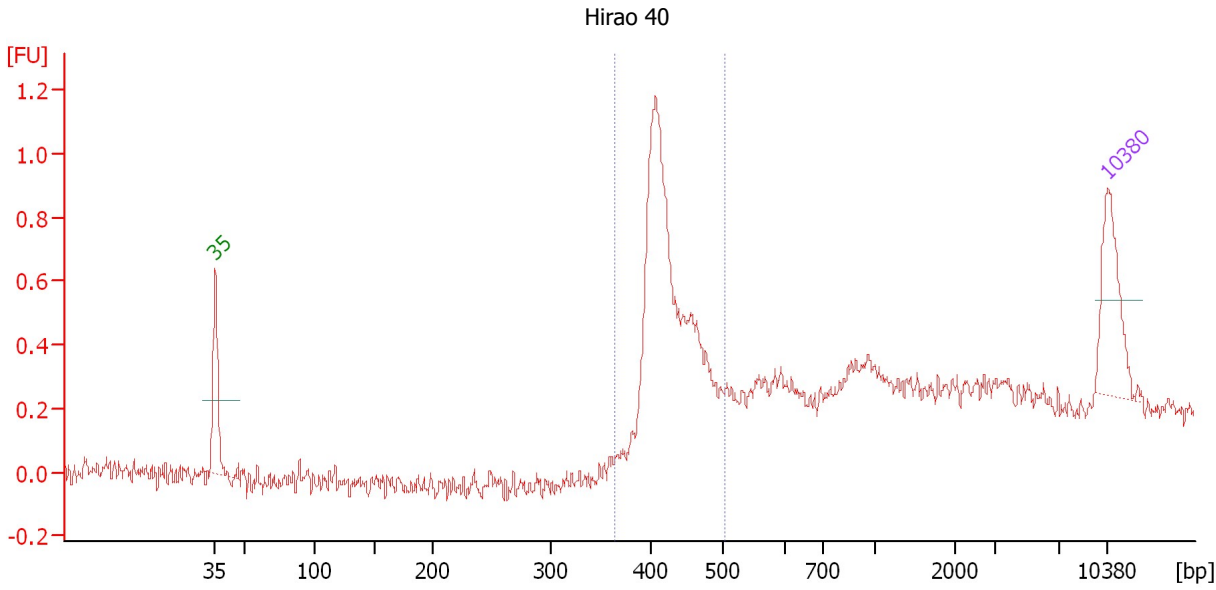
**Region table for sample 3 : George 30**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
337	409	529	10.7	62	8.8	1,510.27	5,633.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Hirao 40**

Number of peaks found: 0                      Corr. Area 1: 4.1  
 Noise: 0.0

**Peak table for sample 4 : Hirao 40**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : Hirao 40**

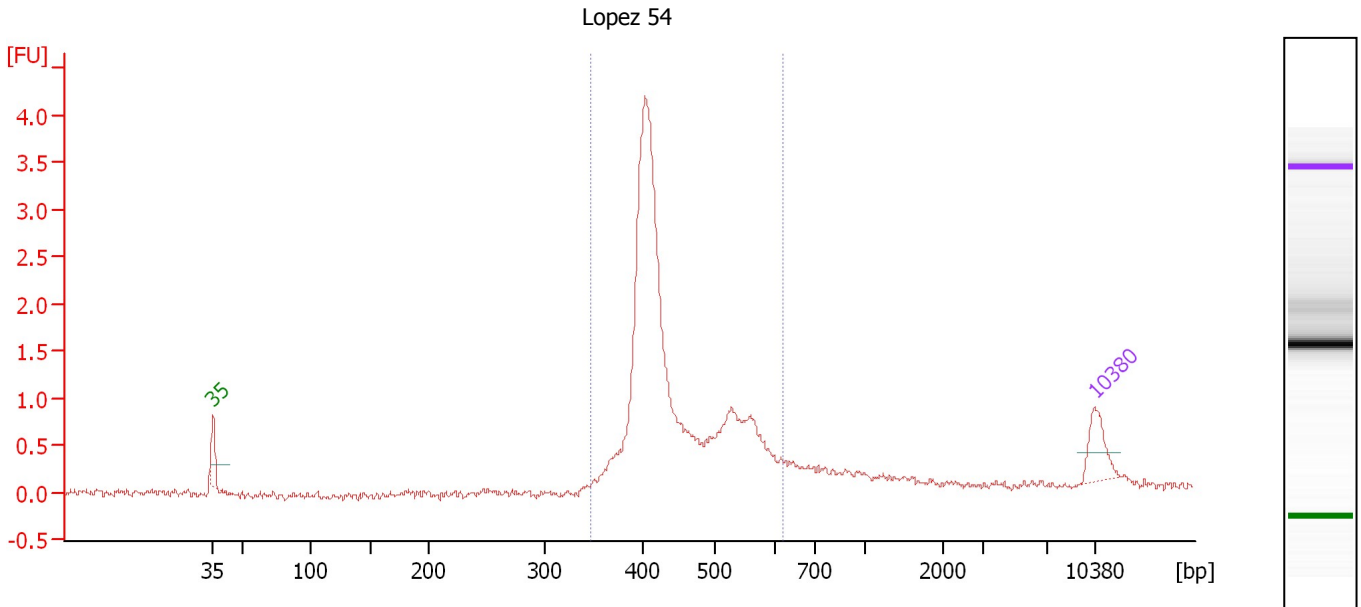
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
364	427	502	4.1	54	6.6	451.64	1,607.1	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Lopez 54**

Number of peaks found: 0                      Corr. Area 1: 19.0  
 Noise: 0.0

**Peak table for sample 5 : Lopez 54**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

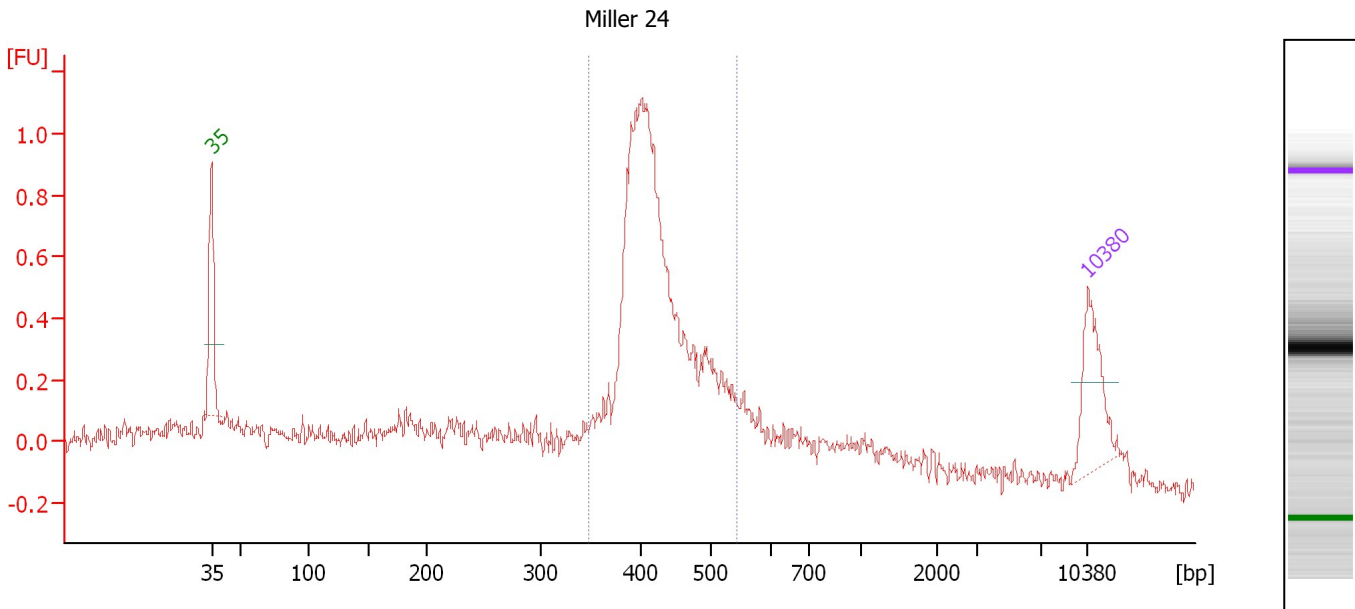
**Region table for sample 5 : Lopez 54**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
348	445	621	19.0	90	14.0	1,895.58	6,606.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Miller 24**

Number of peaks found: 0                      Corr. Area 1: 7.6  
 Noise: 0.0

**Peak table for sample 6 : Miller 24**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

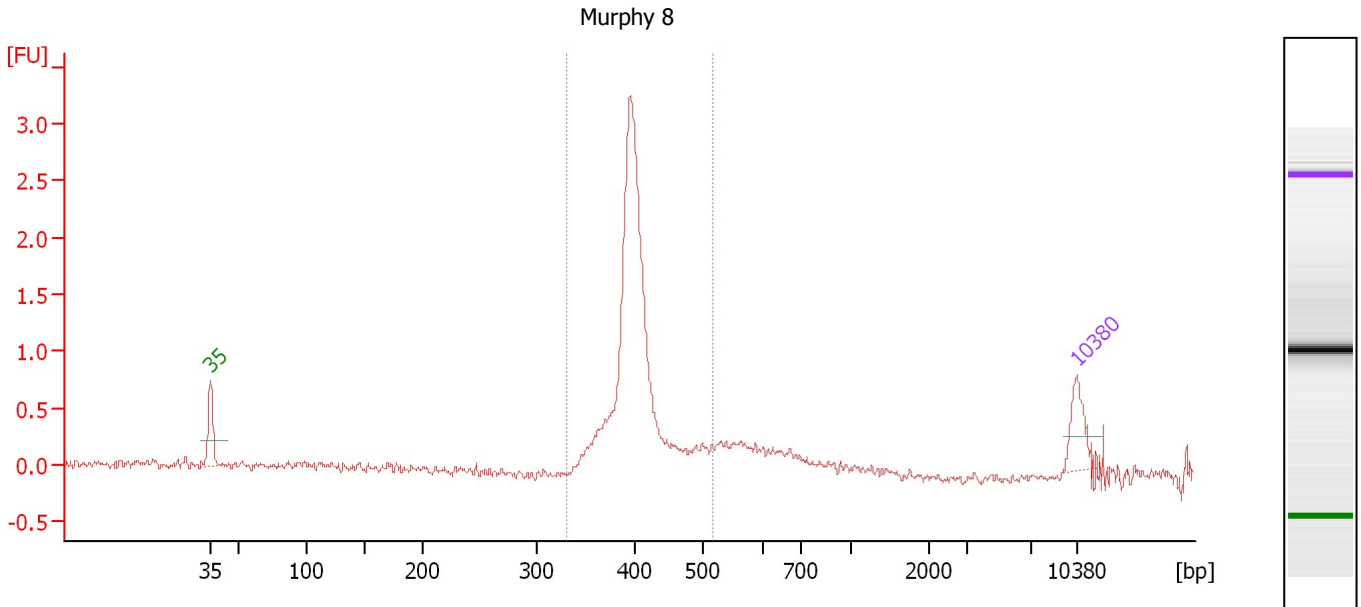
**Region table for sample 6 : Miller 24**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
350	428	543	7.6	67	10.1	867.48	3,104.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Murphy 8**

Number of peaks found: 0                      Corr. Area 1: 10.4  
 Noise: 0.0

**Peak table for sample 7 : Murphy 8**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

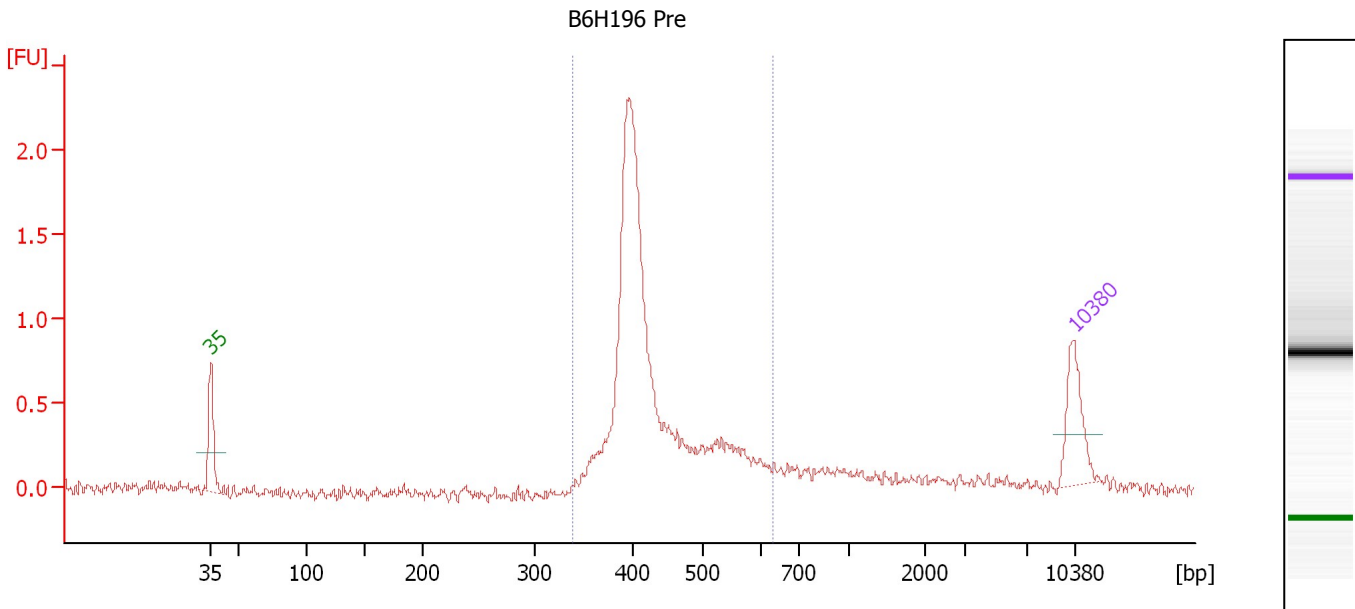
**Region table for sample 7 : Murphy 8**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
331	405	515	10.4	76	7.2	1,202.19	4,515.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

Created: 10/9/2014 12:21:43 PM  
 Modified: 10/9/2014 1:23:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : B6H196 Pre**

Number of peaks found: 0                      Corr. Area 1: 10.7  
 Noise: 0.0

**Peak table for sample 8 : B6H196 Pre**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

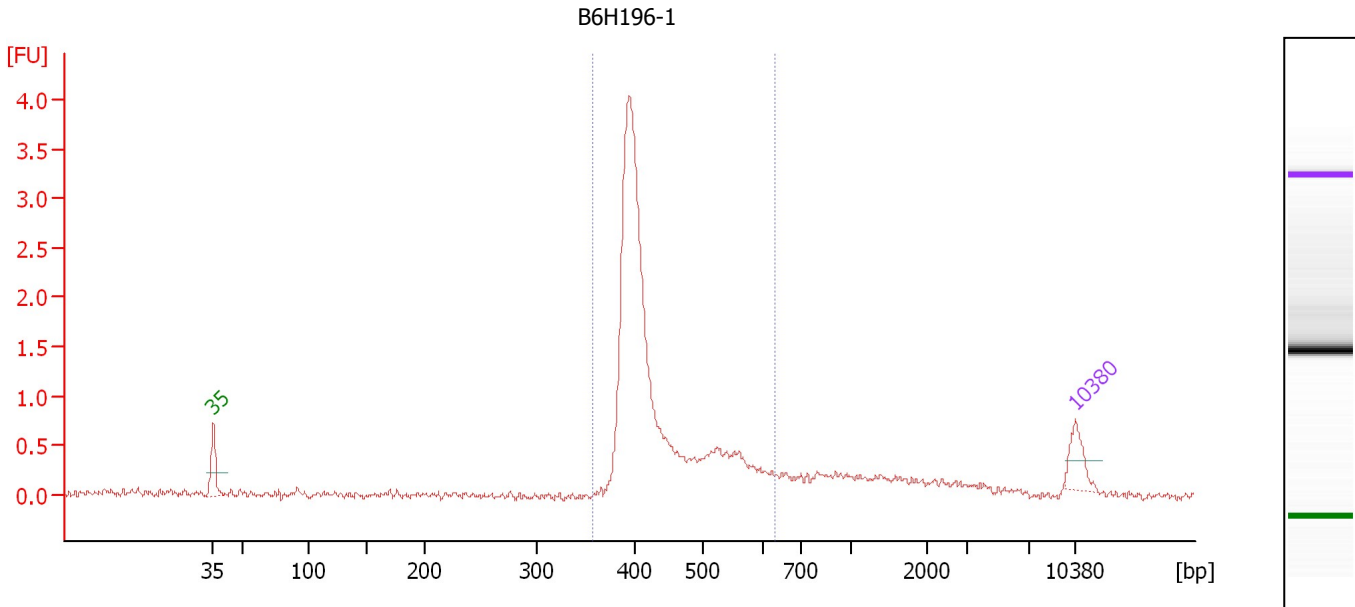
**Region table for sample 8 : B6H196 Pre**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
338	433	632	10.7	76	14.4	993.37	3,551.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

Created: 10/9/2014 12:21:43 PM  
 Modified: 10/9/2014 1:23:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : B6H196-1**

Number of peaks found: 0                      Corr. Area 1: 15.6  
 Noise: 0.0

**Peak table for sample 9 : B6H196-1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

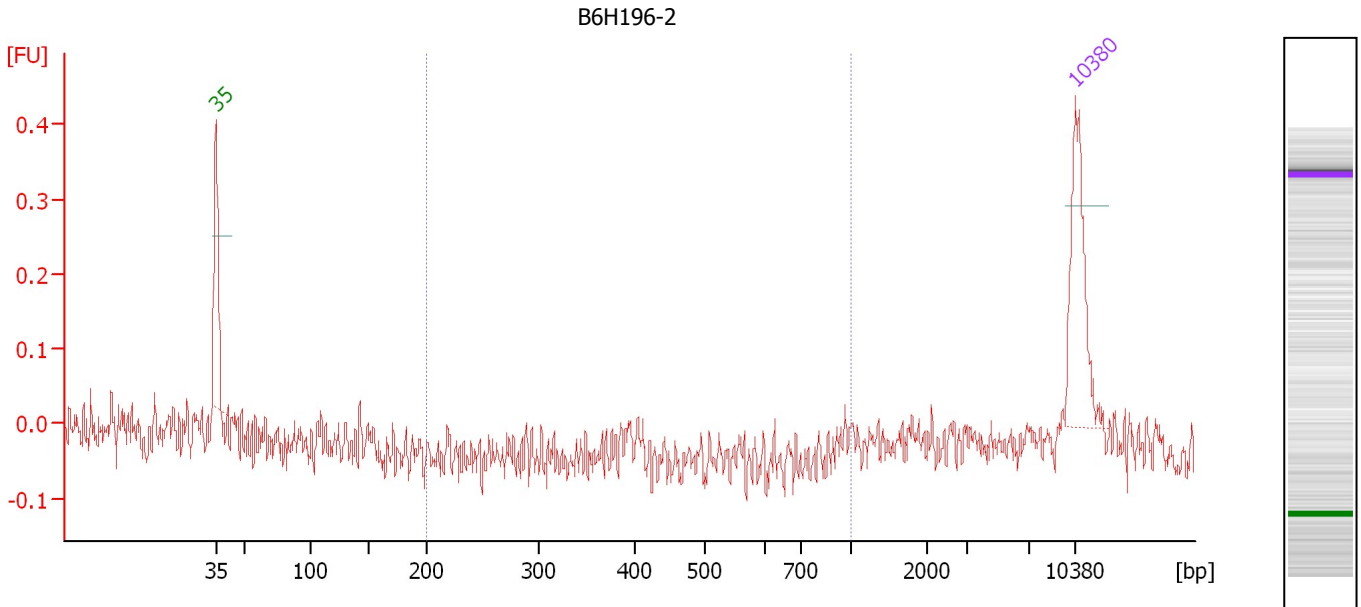
**Region table for sample 9 : B6H196-1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
358	436	633	15.6	78	14.1	2,048.32	7,276.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

Created: 10/9/2014 12:21:43 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : B6H196-2**

Number of peaks found: 0                      Corr. Area 1: 0.1  
 Noise: 0.0

**Peak table for sample 10 : B6H196-2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

**Region table for sample 10 : B6H196-2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	607	1,000	0.1	14	42.2	22.55	72.2	Blue

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Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

Created: 10/9/2014 12:21:43 PM  
Modified: 10/9/2014 1:23:27 PM

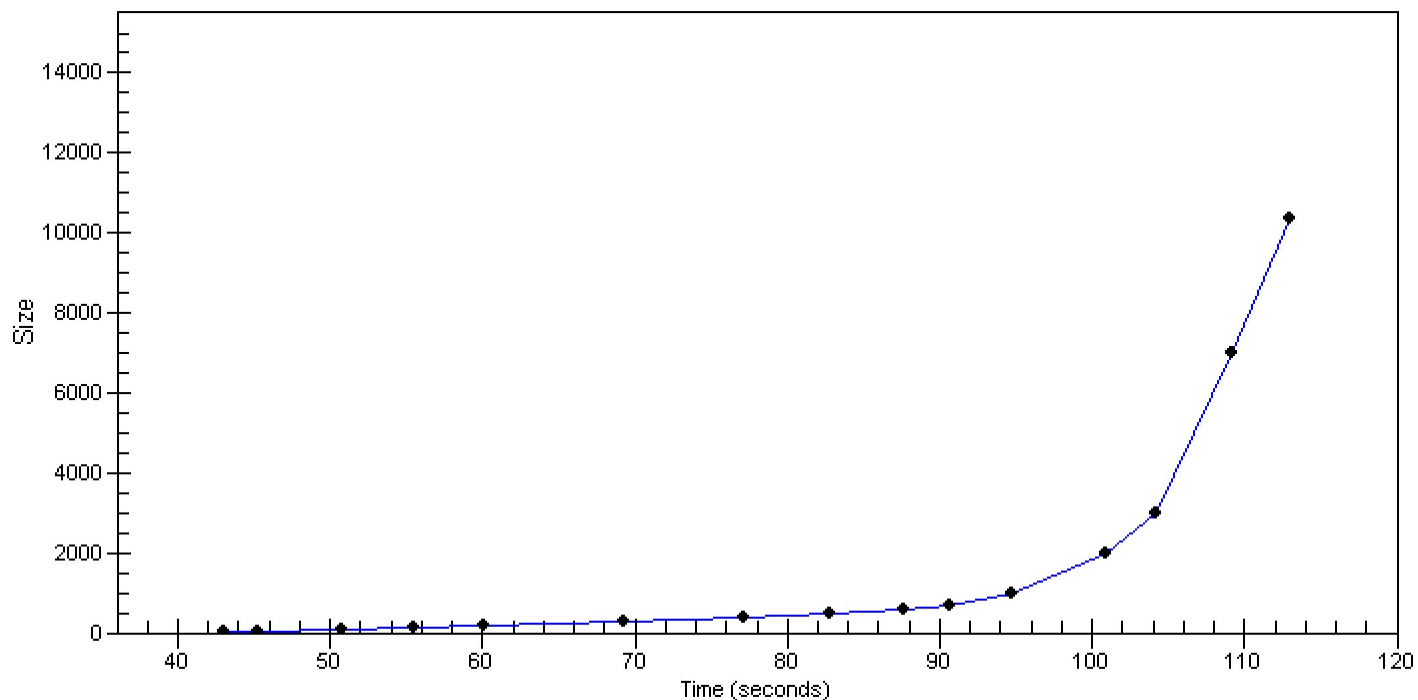
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-09\2014-10-09\_004.xad

Created: 10/9/2014 12:21:43 PM  
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**Curves**

**Standard Curve**





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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: 11)		Instrument	Run		10/9/2014 1:00:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-09\2014-10-09_004.xad)		Instrument	Run		10/9/2014 12:21:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/9/2014 12:21:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/9/2014 12:21:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/9/2014 12:21:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/9/2014 12:21:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/9/2014 12:21:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/9/2014 12:21:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1