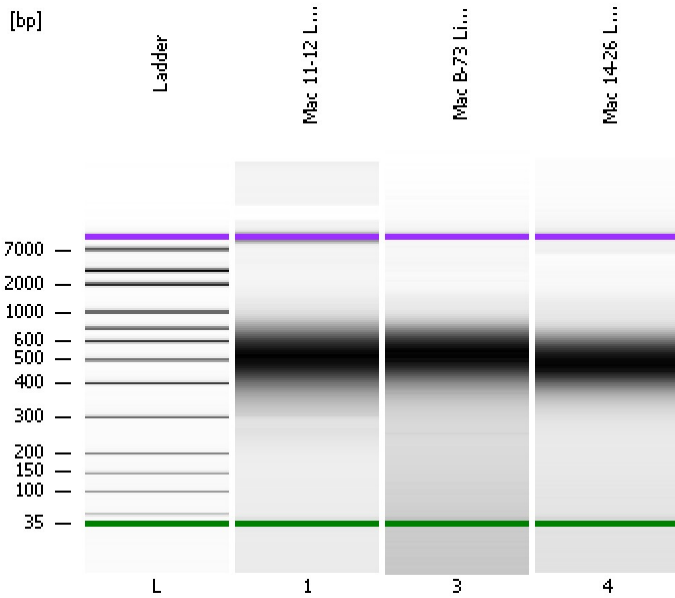


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
Modified: 4/20/2016 3:32:15 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

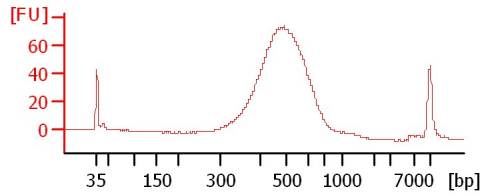
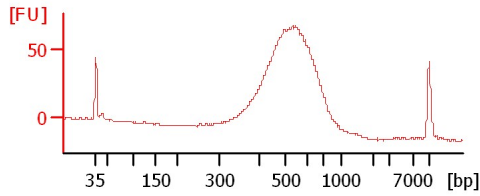
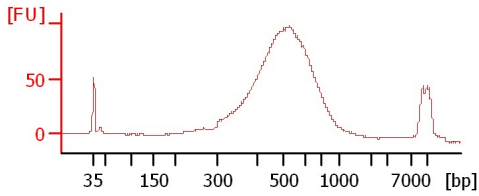
Chip Information:

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

**Mac 11-12 Library (1:7)**

**Mac B-73 Library (1:7)**

**Mac 14-26 Library (1:7)**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
Modified: 4/20/2016 3:32:15 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Mac 11-12 Library (1:7)		<input type="checkbox"/>	✓			
Mac B-73 Library (1:7)		<input type="checkbox"/>	✓			
Mac 14-26 Library (1:7)		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

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

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
Modified: 4/20/2016 3:32:15 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

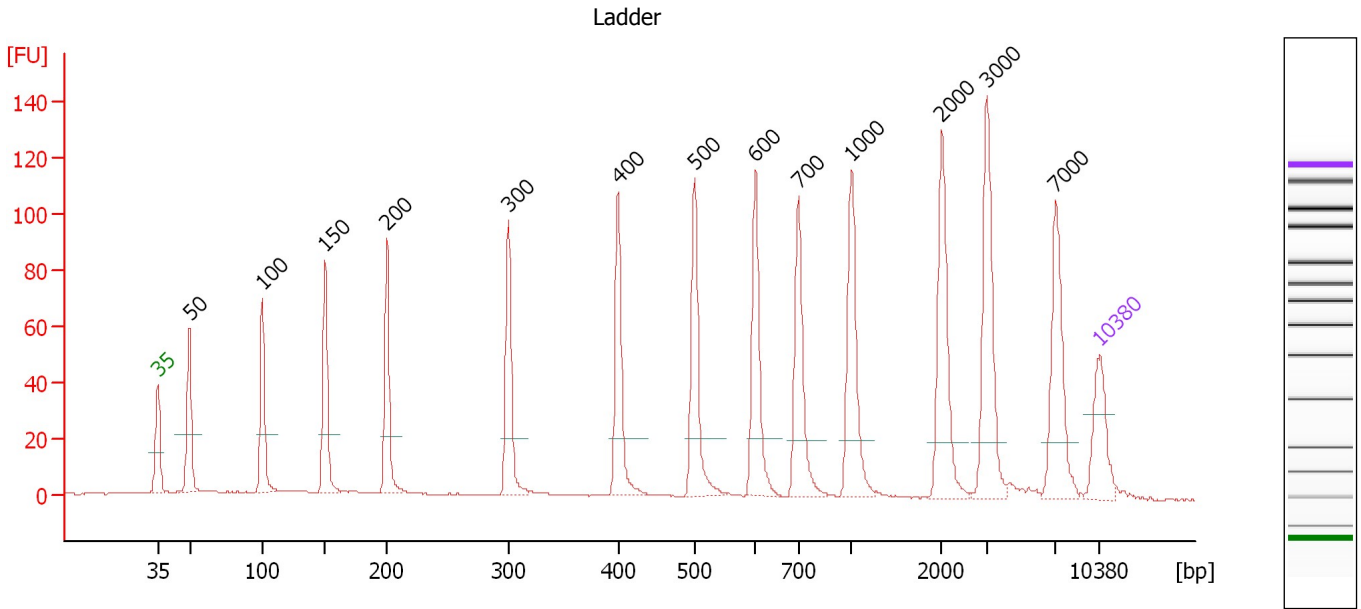
**Ladder**

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:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
 Modified: 4/20/2016 3:32:15 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

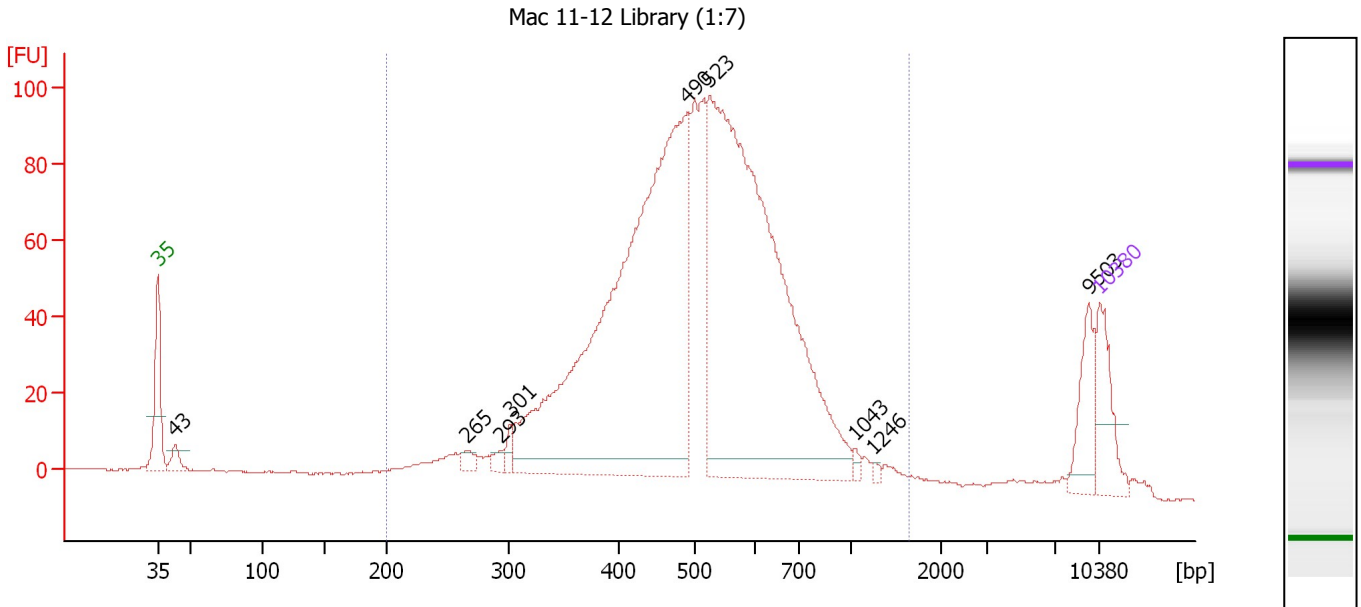
**Peak table for Ladder**

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.81
4	150	150.00	1,515.2	Ladder Peak	55.45
5	200	150.00	1,136.4	Ladder Peak	60.04
6	300	150.00	757.6	Ladder Peak	69.08
7	400	150.00	568.2	Ladder Peak	77.22
8	500	150.00	454.5	Ladder Peak	82.90
9	600	150.00	378.8	Ladder Peak	87.39
10	700	150.00	324.7	Ladder Peak	90.61
11	1,000	150.00	227.3	Ladder Peak	94.54
12	2,000	150.00	113.6	Ladder Peak	101.26
13	3,000	150.00	75.8	Ladder Peak	104.62
14	7,000	150.00	32.5	Ladder Peak	109.73
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
 Modified: 4/20/2016 3:32:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Mac 11-12 Library (1:7)**

Number of peaks found: 9                      Corr. Area 1: 1,694.8  
 Noise: 0.2

**Peak table for sample 1 : Mac 11-12 Library (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	43	28.71	1,003.3		44.32
3	265	18.94	108.3		65.93
4	293	13.75	71.1		68.42
5	301	16.66	83.8		69.17
6	490	1,269.22	3,921.3		82.35
7	523	1,198.66	3,469.3		83.95
8	1,043	7.57	11.0		94.83
9	1,246	4.46	5.4		96.19
10	9,503	63.74	10.2		112.15
11	10,380	75.00	10.9	Upper Marker	113.00

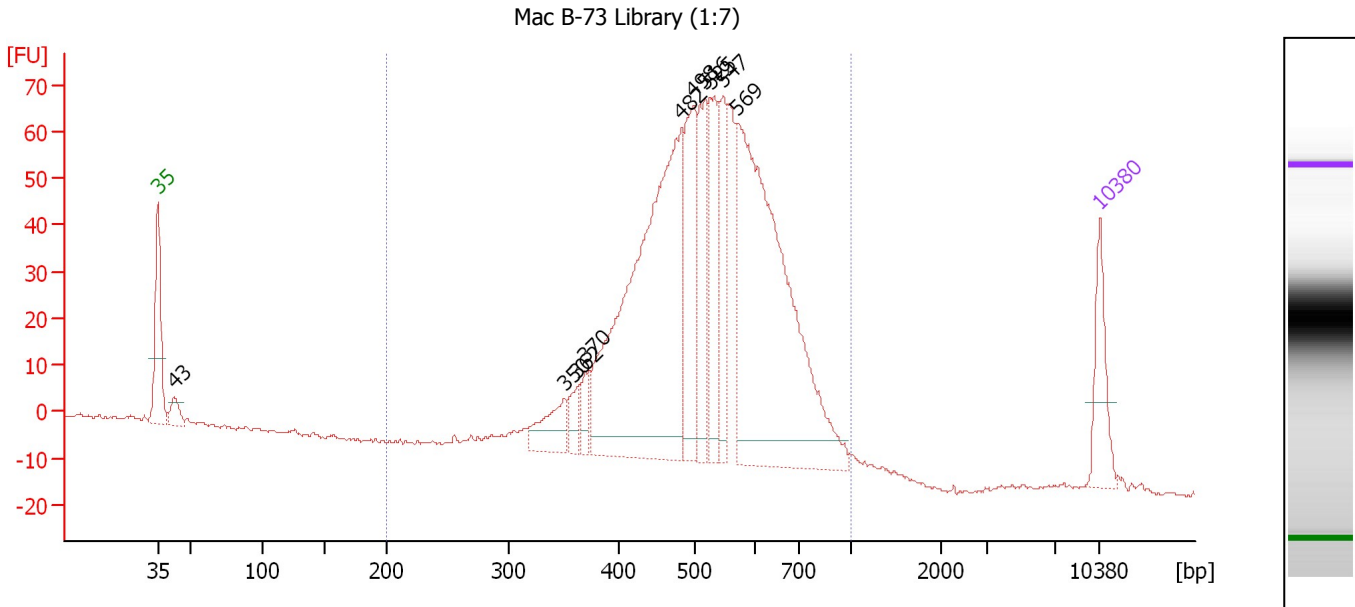
**Region table for sample 1 : Mac 11-12 Library (1:7)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,646	516	1,694.8	9,026.6	2,808.17	97	26.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
 Modified: 4/20/2016 3:32:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Mac B-73 Library (1:7)**

Number of peaks found: 10                      Corr. Area 1: 1,122.4  
 Noise: 0.4

**Peak table for sample 3 : Mac B-73 Library (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	43	36.52	1,286.4		44.26
3	350	77.04	333.1		73.19
4	362	38.63	161.5		74.16
5	370	34.14	139.7		74.79
6	482	861.93	2,708.2		81.89
7	498	203.66	620.1		82.76
8	516	153.56	450.5		83.64
9	525	154.09	444.6		84.03
10	547	139.02	385.3		85.00
11	569	789.28	2,100.1		86.02
12	10,380	75.00	10.9	Upper Marker	113.00

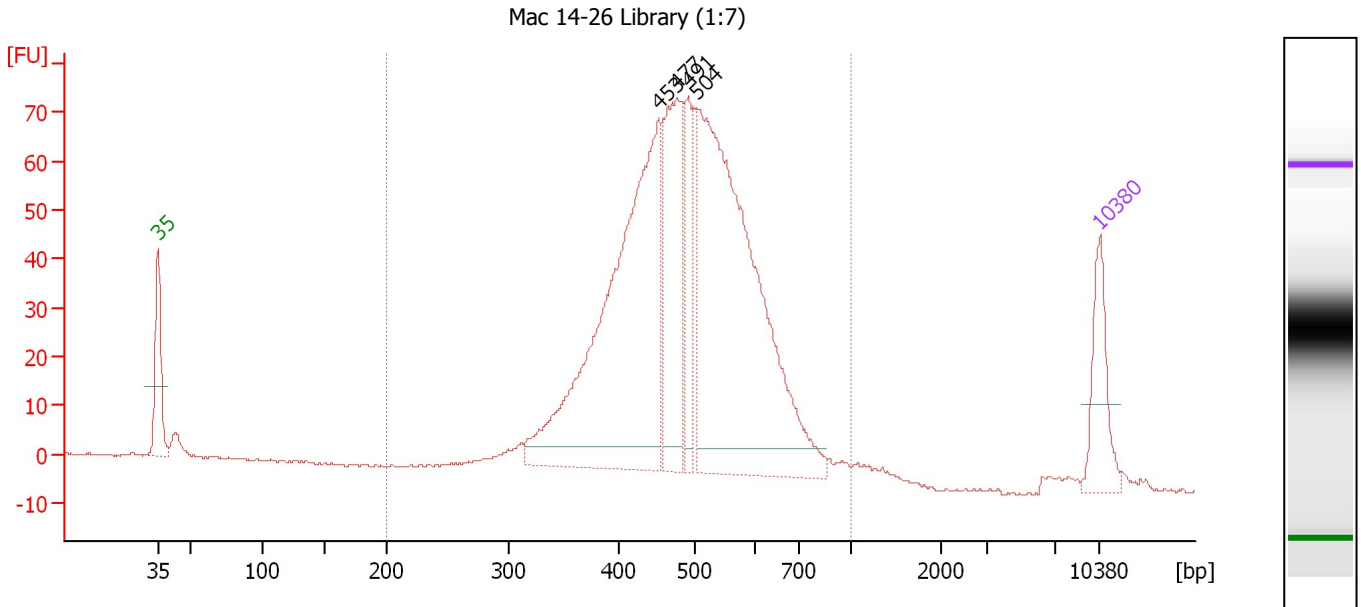
**Region table for sample 3 : Mac B-73 Library (1:7)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	529	1,122.4	7,772.5	2,565.40	98	20.4

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
 Modified: 4/20/2016 3:32:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Mac 14-26 Library (1:7)**

Number of peaks found: 4                      Corr. Area 1: 1,136.5  
 Noise: 0.3

**Peak table for sample 4 : Mac 14-26 Library (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	453	741.63	2,479.3		80.24
3	477	259.04	822.4		81.61
4	491	117.62	363.0		82.39
5	504	832.52	2,503.7		83.07
6	10,380	75.00	10.9	Upper Marker	113.00

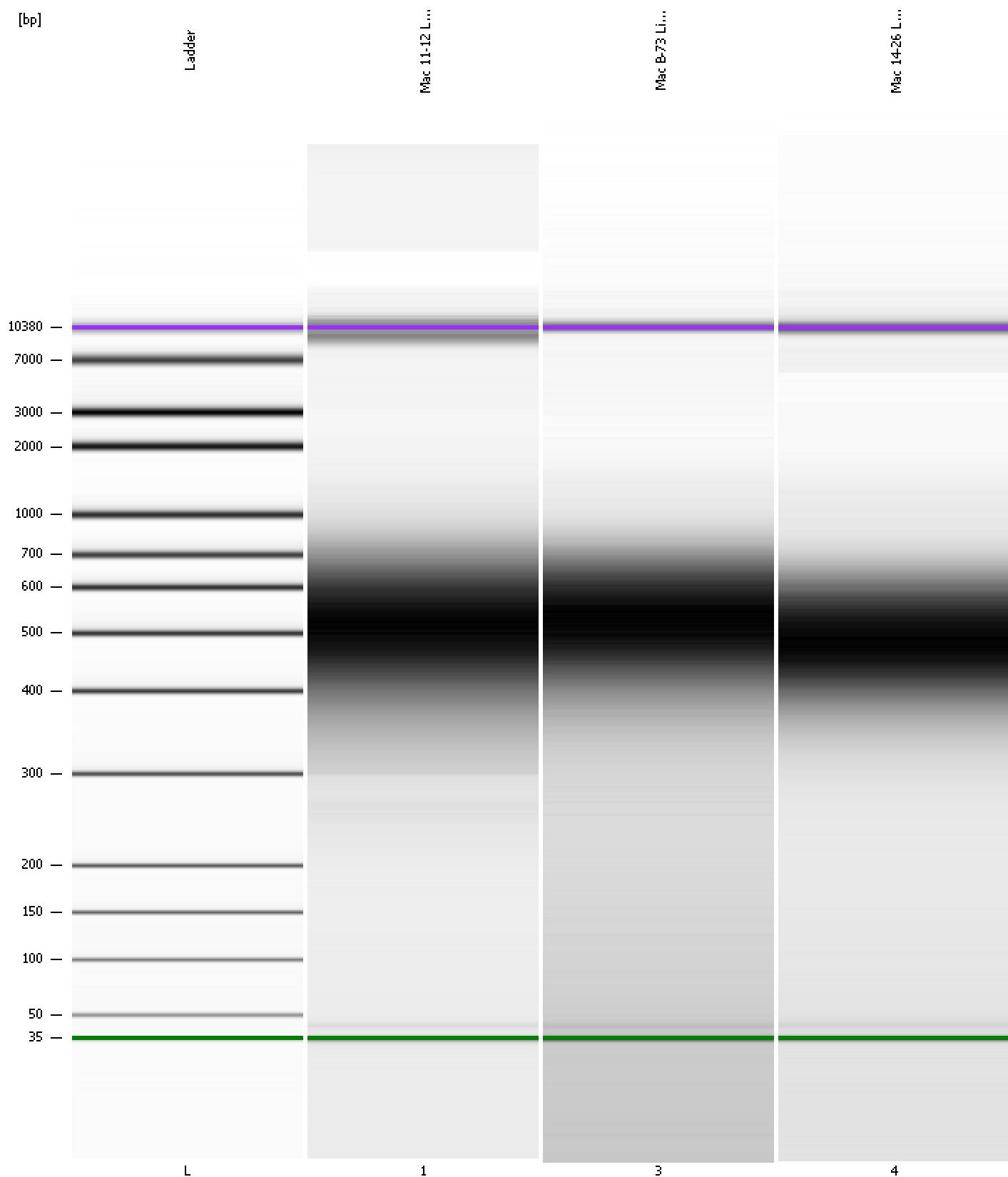
**Region table for sample 4 : Mac 14-26 Library (1:7)**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	493	1,136.5	6,863.2	2,113.29	95	20.4

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
Modified: 4/20/2016 3:32:15 PM

**Gel Image**



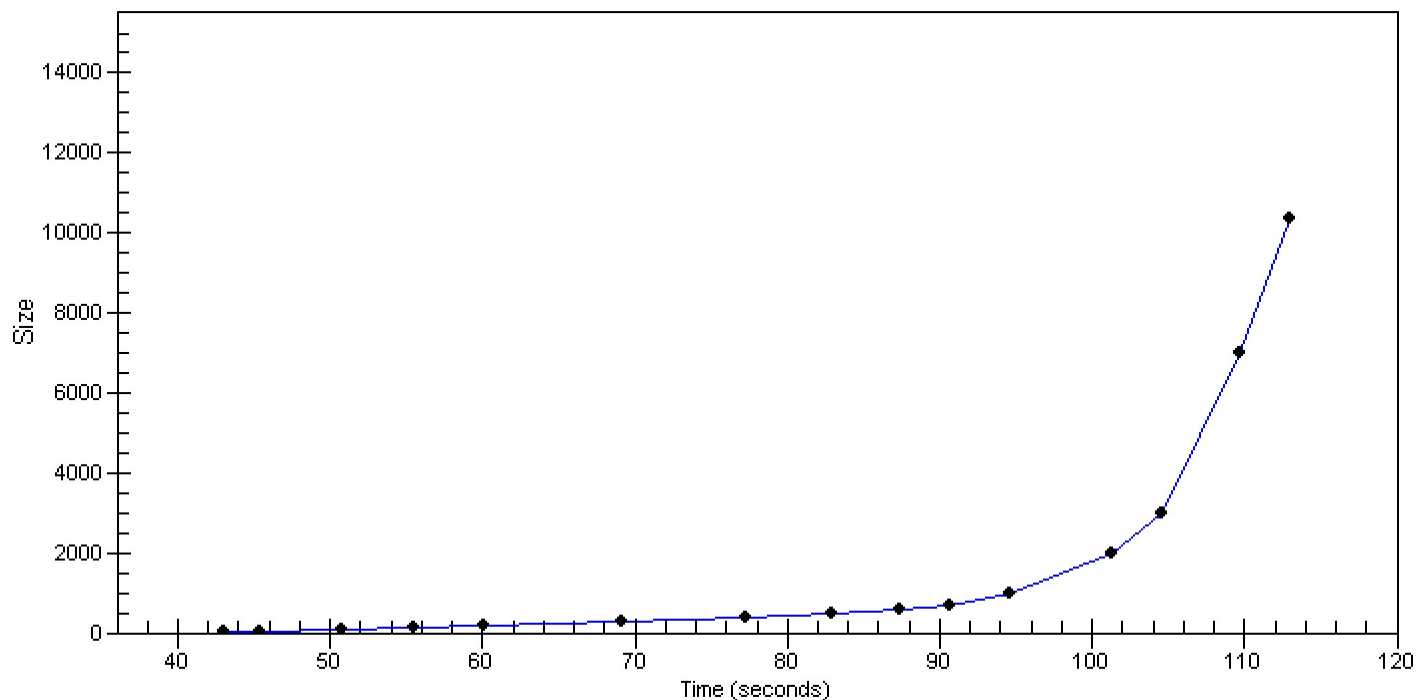


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
Modified: 4/20/2016 3:32:15 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...\data\2016-04-19\2016-04-19\_002\_HiSeq402\_Libraries\_1of2.xad

Created: 4/19/2016 12:03:04 PM  
 Modified: 4/20/2016 3:32:15 PM

**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		4/19/2016 12:38:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-19\2016-04-19_002.xad)		Instrument	Run		4/19/2016 12:03:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/19/2016 12:03:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/19/2016 12:03:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/19/2016 12:03:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/19/2016 12:03:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/19/2016 12:03:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/19/2016 12:03:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1