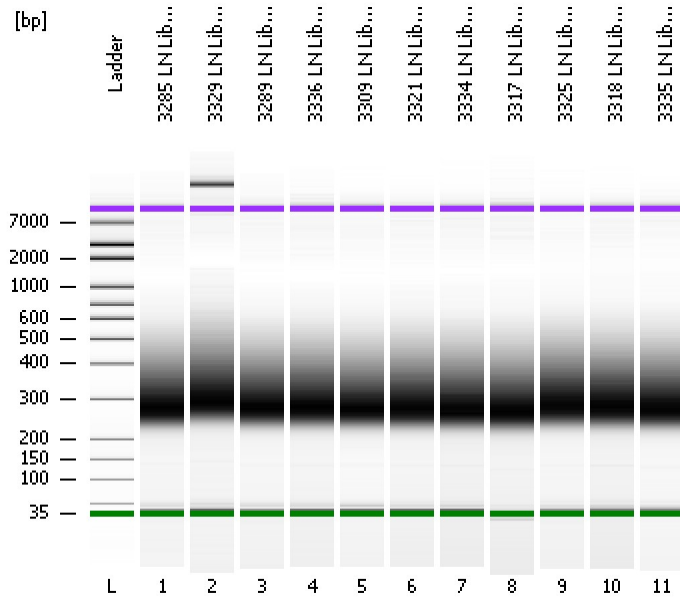


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
Modified: 1/14/2016 4:52:42 PM

**Electrophoresis File Run Summary**



Instrument Information:

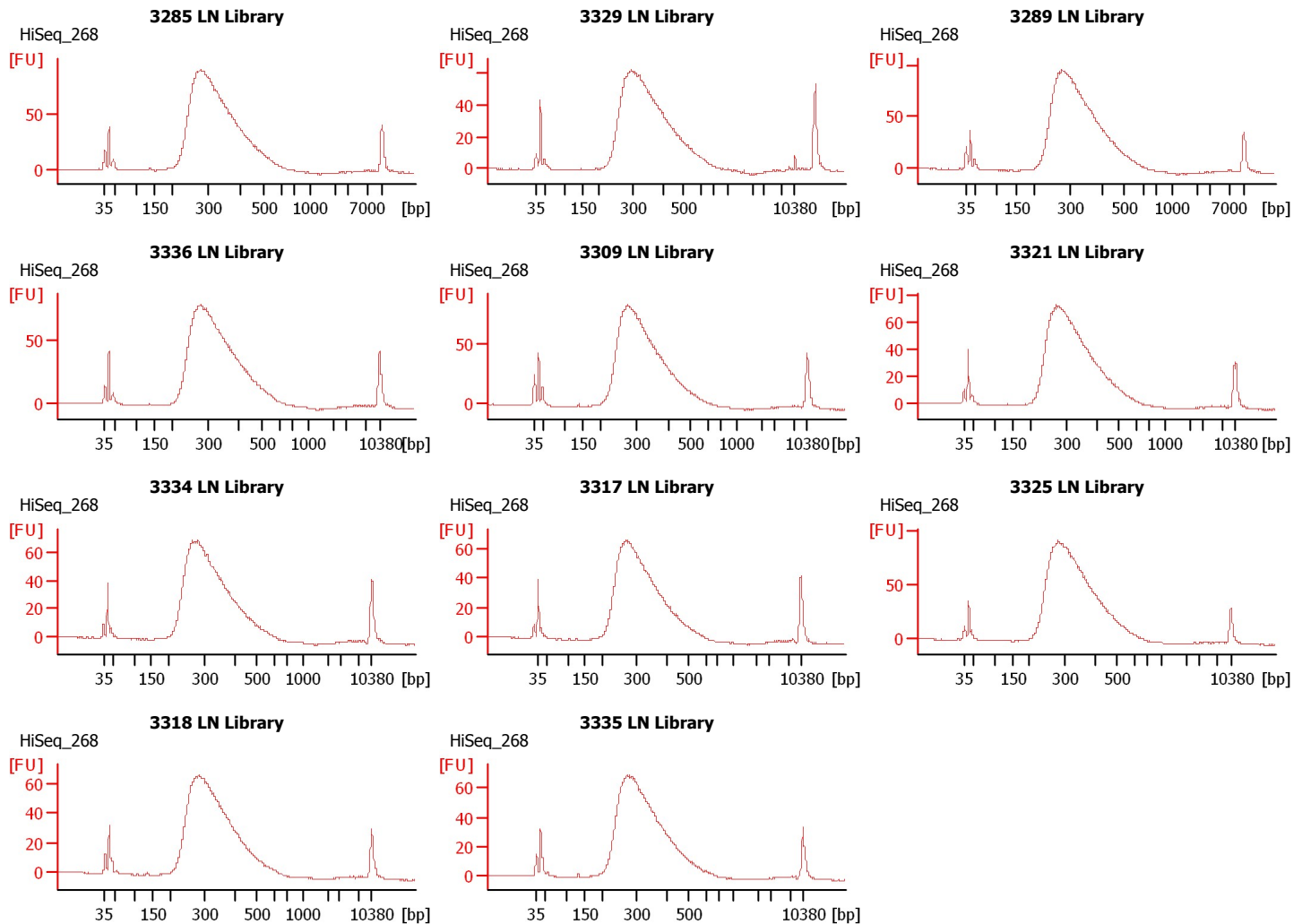
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
Modified: 1/14/2016 4:52:42 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
3285 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3329 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3289 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3336 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3309 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3321 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3334 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3317 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3325 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3318 LN Library	HiSeq_268	<input type="checkbox"/>	✓			
3335 LN Library	HiSeq_268	<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\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
Modified: 1/14/2016 4:52:42 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

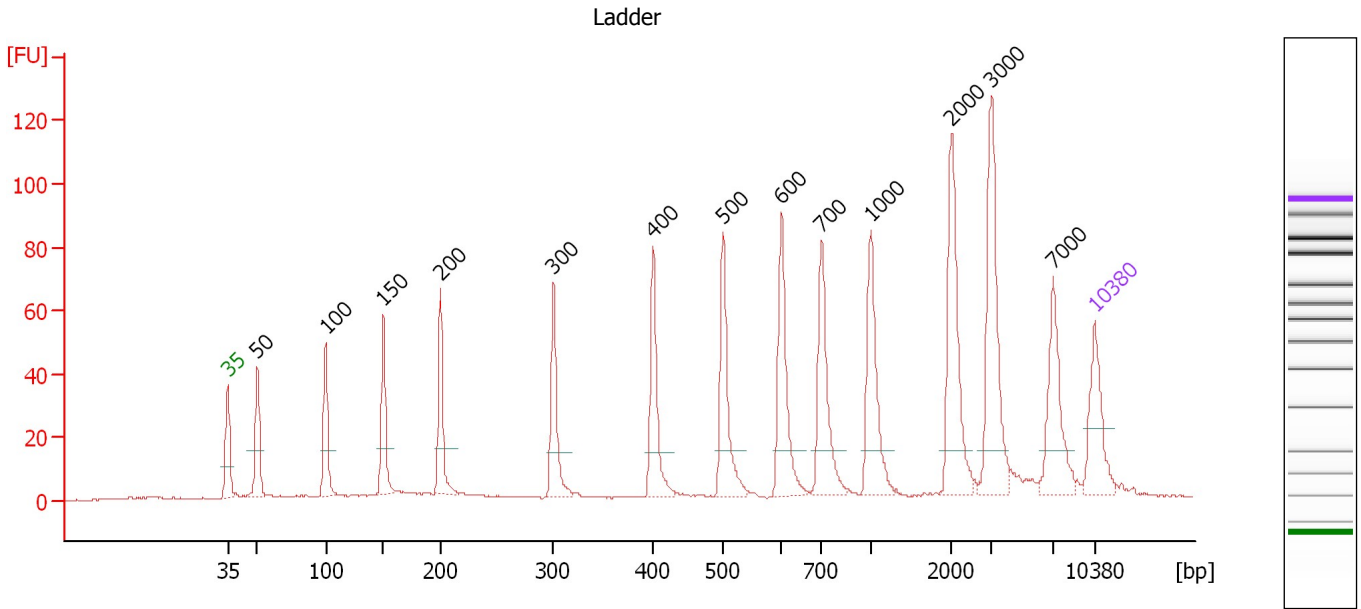
**Ladder**

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\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

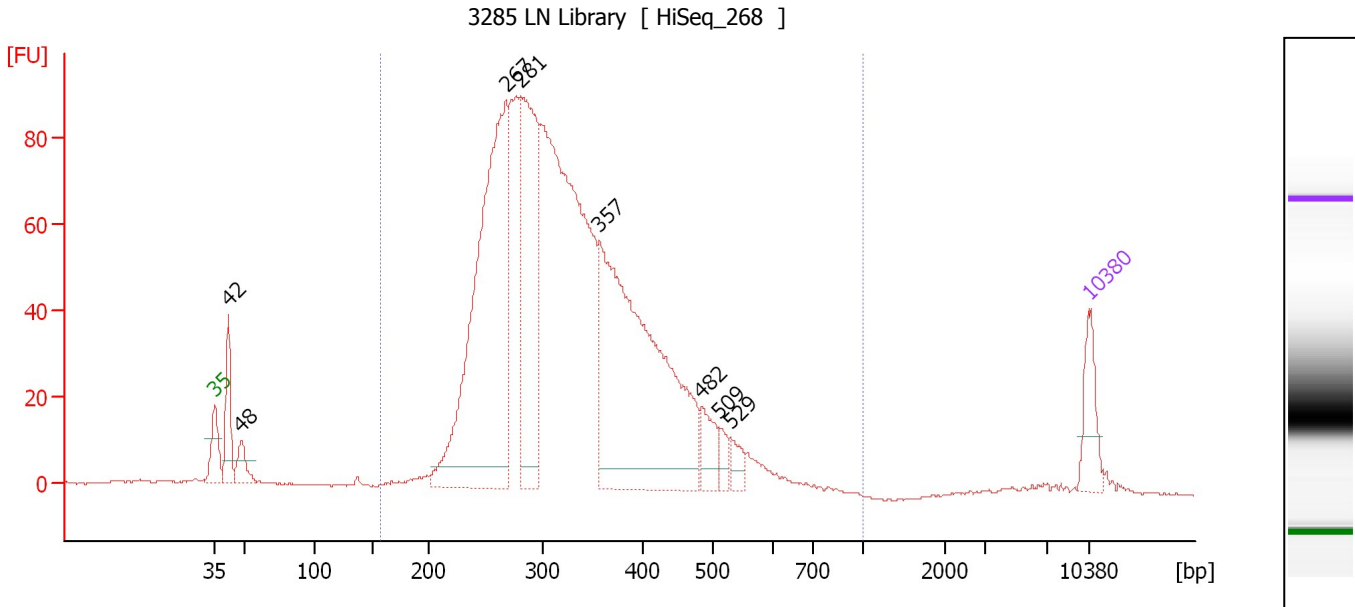
**Peak table for Ladder**

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	45.41
3	100	150.00	2,272.7	Ladder Peak	50.92
4	150	150.00	1,515.2	Ladder Peak	55.56
5	200	150.00	1,136.4	Ladder Peak	60.17
6	300	150.00	757.6	Ladder Peak	69.29
7	400	150.00	568.2	Ladder Peak	77.33
8	500	150.00	454.5	Ladder Peak	82.97
9	600	150.00	378.8	Ladder Peak	87.70
10	700	150.00	324.7	Ladder Peak	90.93
11	1,000	150.00	227.3	Ladder Peak	94.93
12	2,000	150.00	113.6	Ladder Peak	101.43
13	3,000	150.00	75.8	Ladder Peak	104.65
14	7,000	150.00	32.5	Ladder Peak	109.64
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 3285 LN Library**

Number of peaks found: 8                      Corr. Area 1: 1,775.1  
 Noise: 0.2

**Peak table for sample 1 : 3285 LN Library**

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	42	159.20	5,791.7		44.07
3	48	69.78	2,189.2		45.14
4	267	1,260.56	7,141.2		66.32
5	281	622.79	3,357.7		67.56
6	357	1,141.28	4,850.1		73.84
7	482	77.92	245.0		81.95
8	509	35.16	104.6		83.40
9	529	40.39	115.7		84.34
10	10,380	75.00	10.9	Upper Marker	113.00

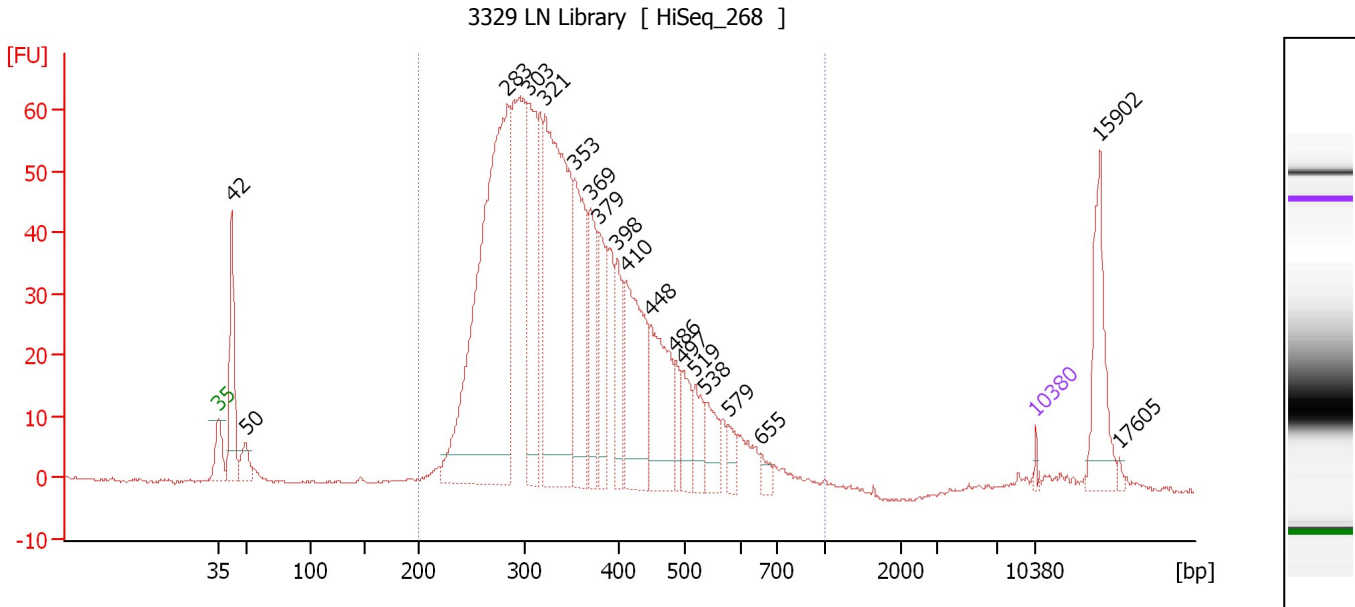
**Region table for sample 1 : 3285 LN Library**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
158	1,000	332	1,775.1	24,498.0	5,001.68	94	24.5

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 3329 LN Library**

Number of peaks found: 19                      Corr. Area 1: 1,240.8  
 Noise: 0.2

**Peak table for sample 2 : 3329 LN Library**

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	42	2,776.20	99,885.7		44.14
3	50	648.35	19,842.4		45.33
4	283	12,832.91	68,631.6		67.77
5	303	3,570.86	17,876.4		69.50
6	321	8,437.45	39,846.8		70.96
7	353	3,328.52	14,301.6		73.52
8	369	1,749.15	7,180.2		74.85
9	379	1,579.84	6,319.9		75.62
10	398	1,409.75	5,365.9		77.18
11	410	3,174.53	11,725.4		77.91
12	448	2,483.13	8,407.3		80.01
13	486	582.11	1,816.2		82.16
14	497	833.43	2,541.0		82.80
15	519	704.89	2,059.5		83.85
16	538	784.76	2,210.6		84.76
17	579	397.78	1,040.2		86.73
18	655	230.28	532.9		89.47
19	10,380	75.00	10.9	Upper Marker	113.00
20	15,902	0.00	0.0		118.48
21	17,605	0.00	0.0		120.17

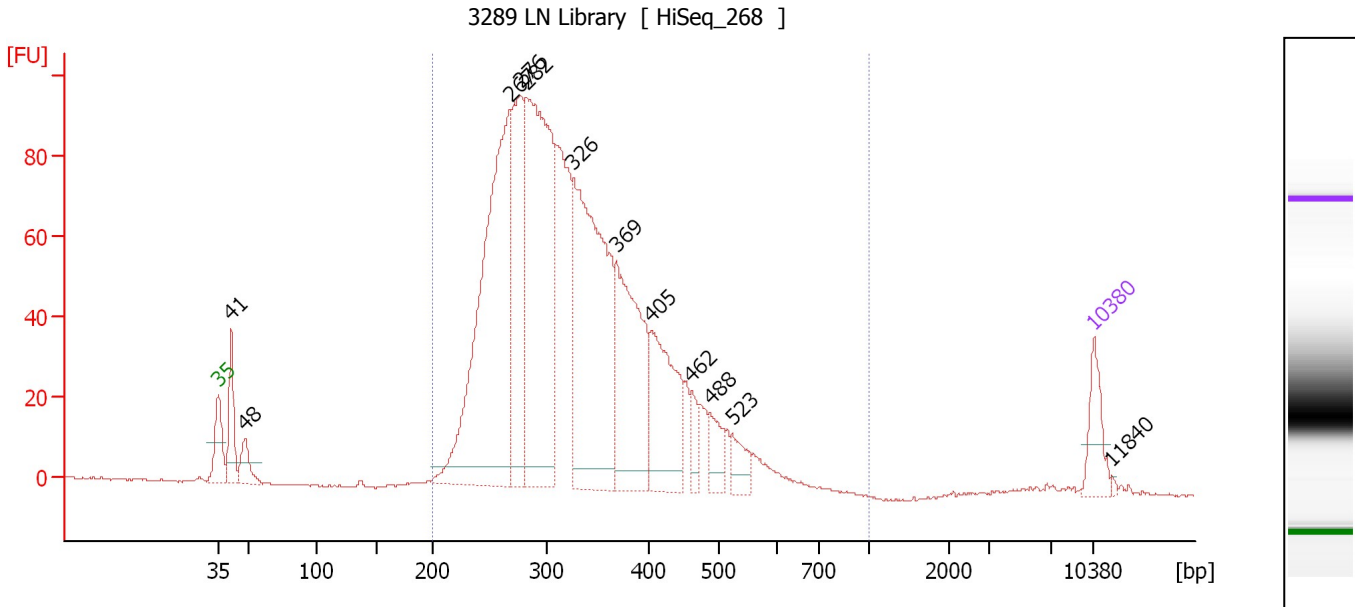
**Region table for sample 2 : 3329 LN Library**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	361	1,240.8	237,602.4	52,212.68	91	26.7

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

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 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3289 LN Library**

Number of peaks found: 12                      Corr. Area 1: 1,832.9  
 Noise: 0.2

**Peak table for sample 3 : 3289 LN Library**

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	41	171.20	6,270.2		44.02
3	48	87.51	2,762.0		45.09
4	267	1,232.75	6,983.7		66.32
5	276	472.28	2,589.5		67.13
6	282	1,067.88	5,738.7		67.64
7	326	954.67	4,442.1		71.35
8	369	511.03	2,097.9		74.85
9	405	331.72	1,240.9		77.62
10	462	52.33	171.7		80.81
11	488	73.97	229.5		82.31
12	523	63.12	182.9		84.05
13	10,380	75.00	10.9	Upper Marker	113.00
14	11,840	0.00	0.0		114.45

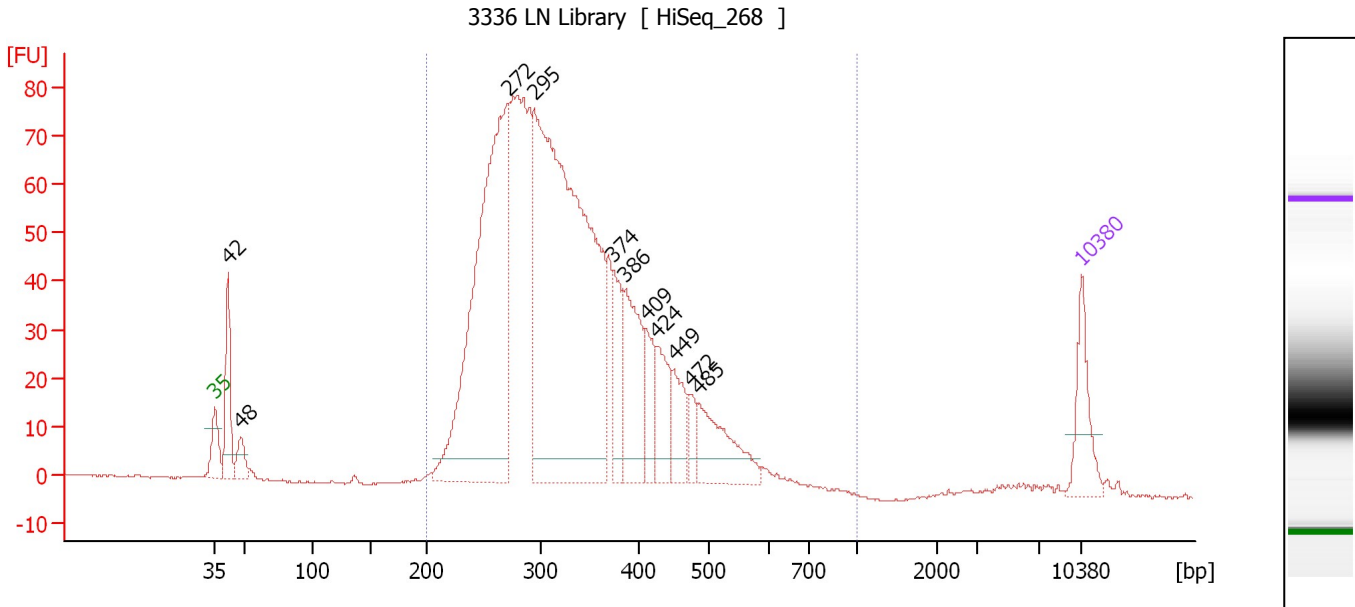
**Region table for sample 3 : 3289 LN Library**

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	333	1,832.9	26,082.9	5,364.85	96	23.3

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

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 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 3336 LN Library**

Number of peaks found: 11                      Corr. Area 1: 1,552.9  
 Noise: 0.2

**Peak table for sample 4 : 3336 LN Library**

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	42	158.51	5,758.7		44.08
3	48	52.45	1,650.8		45.11
4	272	1,017.94	5,679.8		66.69
5	295	1,475.82	7,588.0		68.80
6	374	113.99	462.1		75.22
7	386	196.19	771.0		76.17
8	409	89.02	329.7		77.85
9	424	103.18	368.3		78.71
10	449	79.50	268.3		80.09
11	472	33.94	109.0		81.38
12	485	146.18	456.8		82.11
13	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : 3336 LN Library**

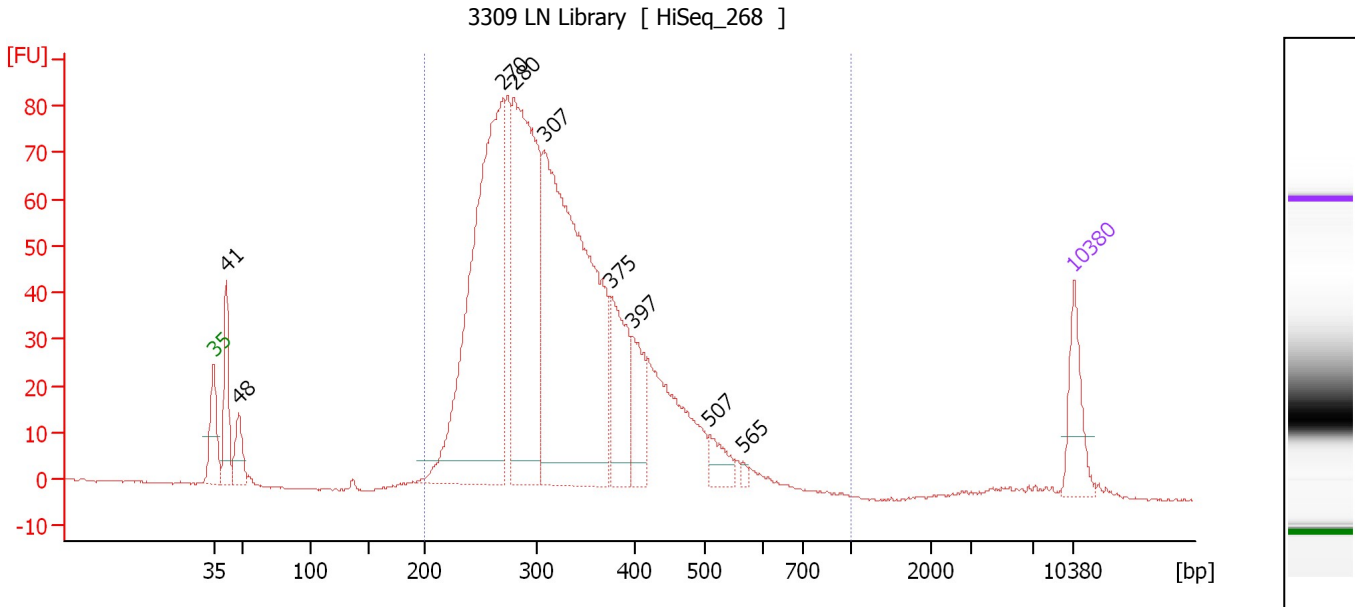
From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	335	1,552.9	19,107.7	3,944.91	95	24.2



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 3309 LN Library**

Number of peaks found: 9                      Corr. Area 1: 1,543.0  
 Noise: 0.2

**Peak table for sample 5 : 3309 LN Library**

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	41	156.43	5,713.3		44.04
3	48	83.84	2,663.0		45.04
4	270	1,027.68	5,763.9		66.56
5	280	757.10	4,101.8		67.43
6	307	1,149.23	5,669.0		69.86
7	375	191.88	775.1		75.33
8	397	106.29	406.0		77.07
9	507	50.86	151.9		83.32
10	565	7.26	19.5		86.05
11	10,380	75.00	10.9	Upper Marker	113.00

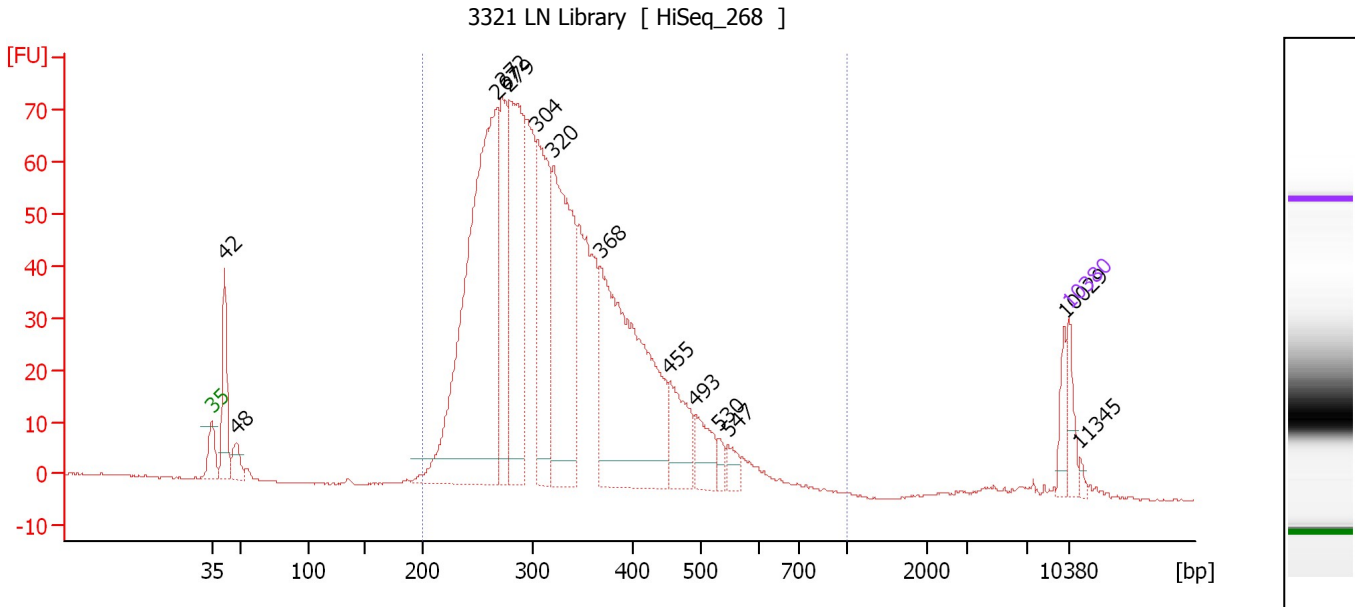
**Region table for sample 5 : 3309 LN Library**

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	329	1,543.0	18,825.3	3,829.96	95	24.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 3321 LN Library**

Number of peaks found: 14                      Corr. Area 1: 1,435.4  
 Noise: 0.2

**Peak table for sample 6 : 3321 LN Library**

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	42	361.42	13,107.0		44.09
3	48	104.44	3,314.2		45.05
4	267	2,209.09	12,522.3		66.30
5	272	543.93	3,029.2		66.74
6	279	964.16	5,240.6		67.35
7	304	719.82	3,593.2		69.57
8	320	1,036.39	4,902.4		70.92
9	368	1,357.73	5,590.8		74.75
10	455	258.99	863.0		80.42
11	493	153.91	473.4		82.55
12	530	39.32	112.5		84.38
13	547	59.42	164.5		85.21
14	10,029	65.12	9.8		112.65
15	10,380	75.00	10.9	Upper Marker	113.00
16	11,345	0.00	0.0		113.96

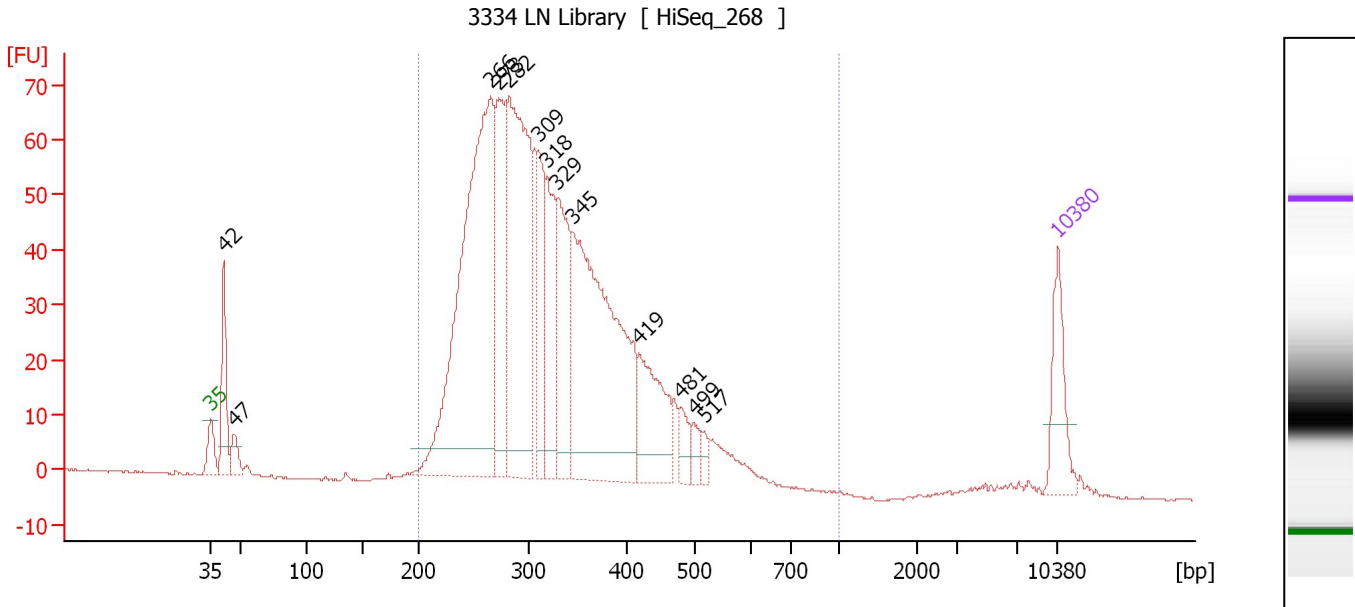
**Region table for sample 6 : 3321 LN Library**

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	333	1,435.4	42,413.1	8,686.26	94	24.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 3334 LN Library**

Number of peaks found: 13                      Corr. Area 1: 1,330.9  
 Noise: 0.2

**Peak table for sample 7 : 3334 LN Library**

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	42	139.69	5,089.5		44.06
3	47	40.05	1,289.1		44.94
4	266	890.22	5,080.0		66.14
5	273	248.89	1,382.5		66.80
6	282	576.91	3,094.9		67.69
7	309	153.74	753.6		70.02
8	318	171.59	816.4		70.77
9	329	214.17	985.1		71.65
10	345	639.24	2,805.1		72.93
11	419	165.21	597.6		78.40
12	481	32.91	103.7		81.88
13	499	23.47	71.2		82.94
14	517	15.56	45.6		83.77
15	10,380	75.00	10.9	Upper Marker	113.00

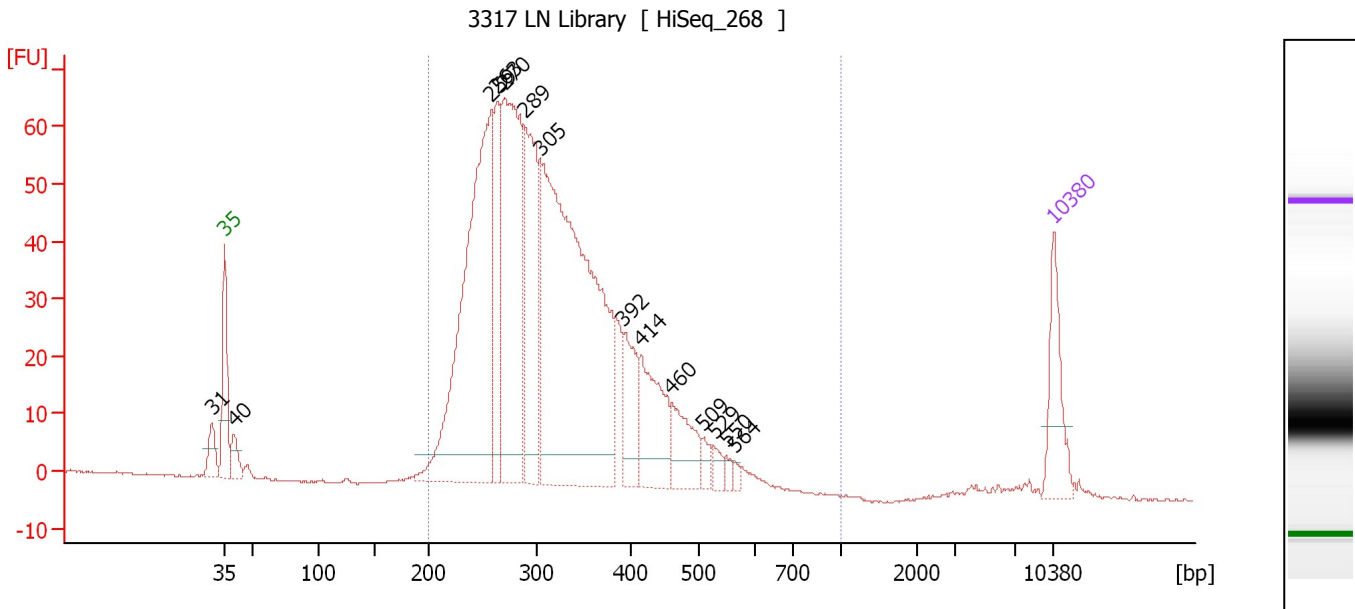
**Region table for sample 7 : 3334 LN Library**

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	328	1,330.9	16,633.8	3,368.42	95	23.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 3317 LN Library**

Number of peaks found: 14      Corr. Area 1: 1,224.0  
 Noise: 0.2

**Peak table for sample 8 : 3317 LN Library**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.92
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	41.41	1,566.9		43.81
4	259	757.13	4,436.7		65.51
5	263	159.75	918.6		65.96
6	270	503.53	2,821.4		66.59
7	289	293.99	1,540.5		68.30
8	305	995.65	4,945.2		69.69
9	392	98.95	382.7		76.67
10	414	147.99	541.8		78.11
11	460	89.16	293.6		80.72
12	509	19.66	58.6		83.38
13	529	15.29	43.8		84.32
14	550	8.95	24.7		85.32
15	564	7.23	19.4		85.99
16	10,380	75.00	10.9	Upper Marker	113.00

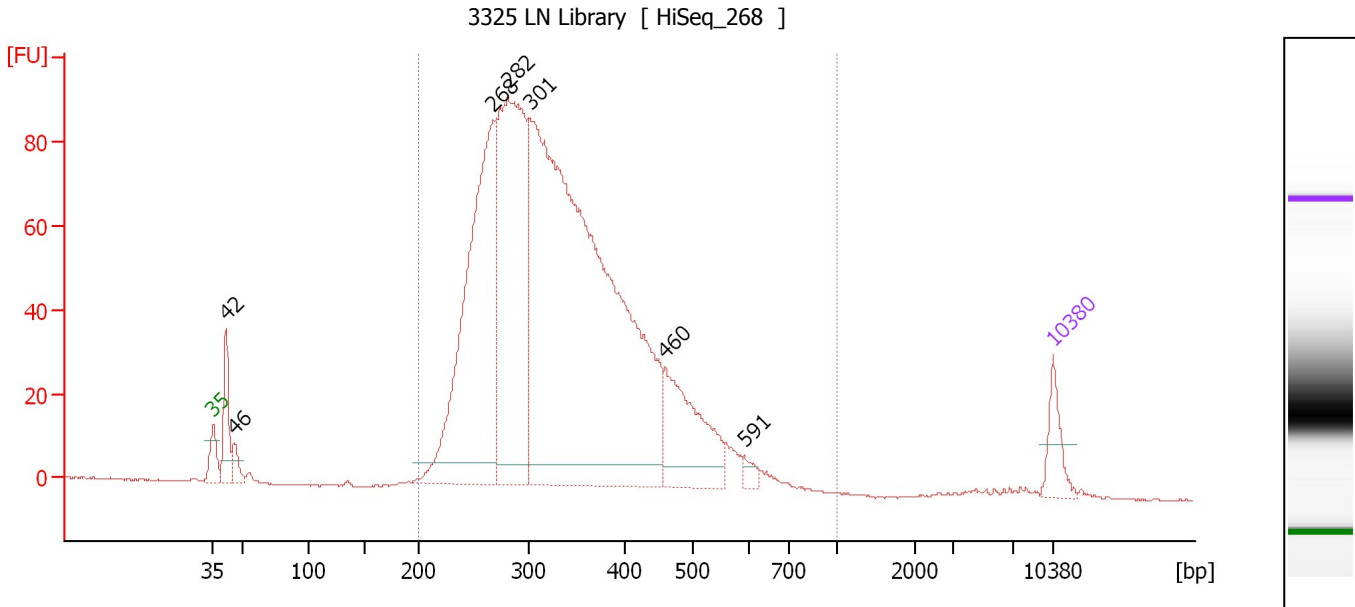
**Region table for sample 8 : 3317 LN Library**

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	322	1,224.0	15,804.2	3,151.86	97	23.6

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 3325 LN Library**

Number of peaks found: 7                      Corr. Area 1: 1,833.5  
 Noise: 0.2

**Peak table for sample 9 : 3325 LN Library**

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	42	196.62	7,154.4		44.07
3	46	61.75	2,031.0		44.78
4	268	1,409.30	7,979.2		66.33
5	282	1,307.24	7,030.1		67.62
6	301	3,427.85	17,232.2		69.40
7	460	385.98	1,272.6		80.69
8	591	29.03	74.5		87.27
9	10,380	75.00	10.9	Upper Marker	113.00

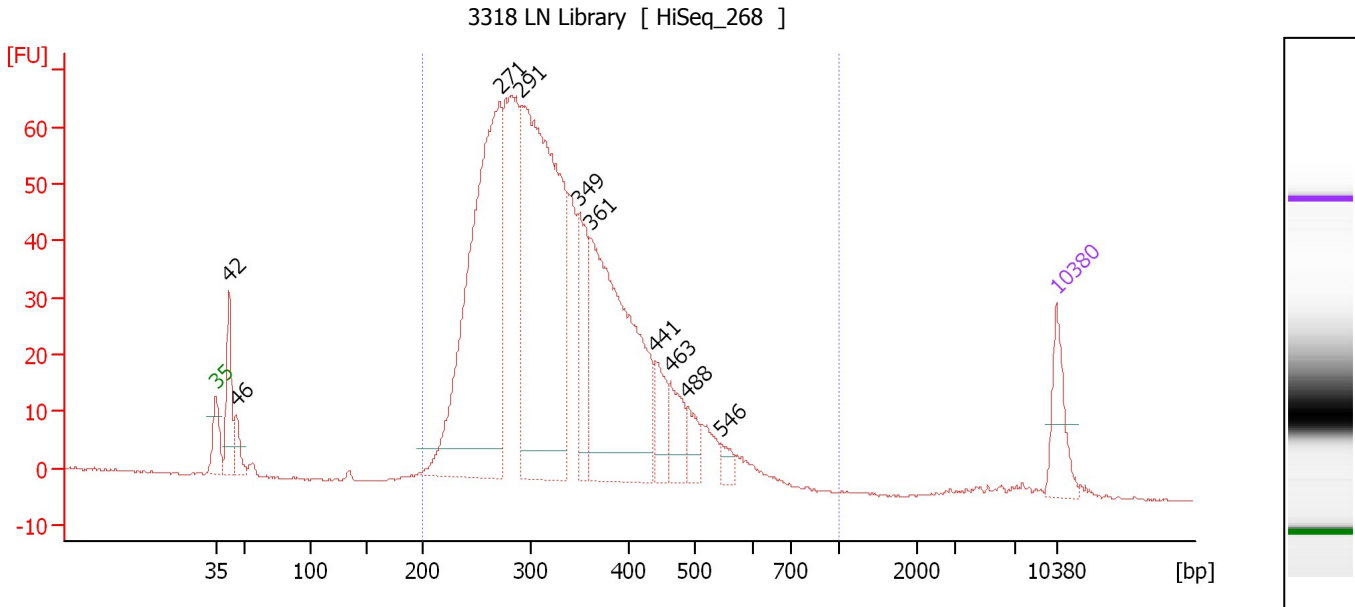
**Region table for sample 9 : 3325 LN Library**

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	342	1,833.5	30,314.0	6,351.04	96	25.2

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 3318 LN Library**

Number of peaks found: 10                      Corr. Area 1: 1,301.6  
 Noise: 0.1

**Peak table for sample 10 : 3318 LN Library**

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	42	168.65	6,137.1		44.07
3	46	58.00	1,931.2		44.69
4	271	1,117.59	6,240.5		66.67
5	291	1,194.75	6,224.5		68.45
6	349	187.31	814.0		73.20
7	361	730.94	3,064.8		74.22
8	441	87.15	299.4		79.64
9	463	86.44	282.8		80.89
10	488	51.28	159.1		82.31
11	546	22.92	63.6		85.15
12	10,380	75.00	10.9	Upper Marker	113.00

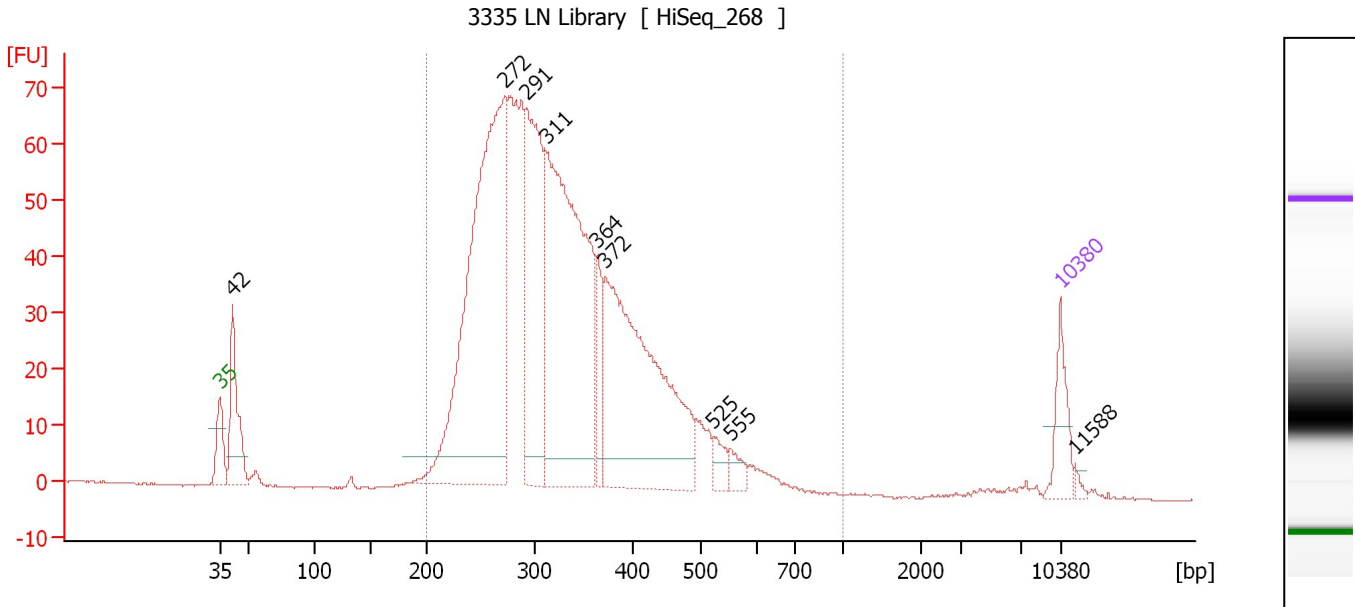
**Region table for sample 10 : 3318 LN Library**

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	335	1,301.6	20,743.4	4,285.51	95	23.9

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
 Modified: 1/14/2016 4:52:42 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 3335 LN Library**

Number of peaks found: 9                      Corr. Area 1: 1,351.0  
 Noise: 0.2

**Peak table for sample 11 : 3335 LN Library**

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	42	256.48	9,333.1		44.07
3	272	1,403.59	7,823.5		66.72
4	291	610.79	3,176.8		68.49
5	311	1,112.88	5,429.2		70.14
6	364	106.27	442.9		74.40
7	372	851.41	3,464.0		75.11
8	525	41.51	119.9		84.13
9	555	33.36	91.2		85.55
10	10,380	75.00	10.9	Upper Marker	113.00
11	11,588	0.00	0.0		114.20

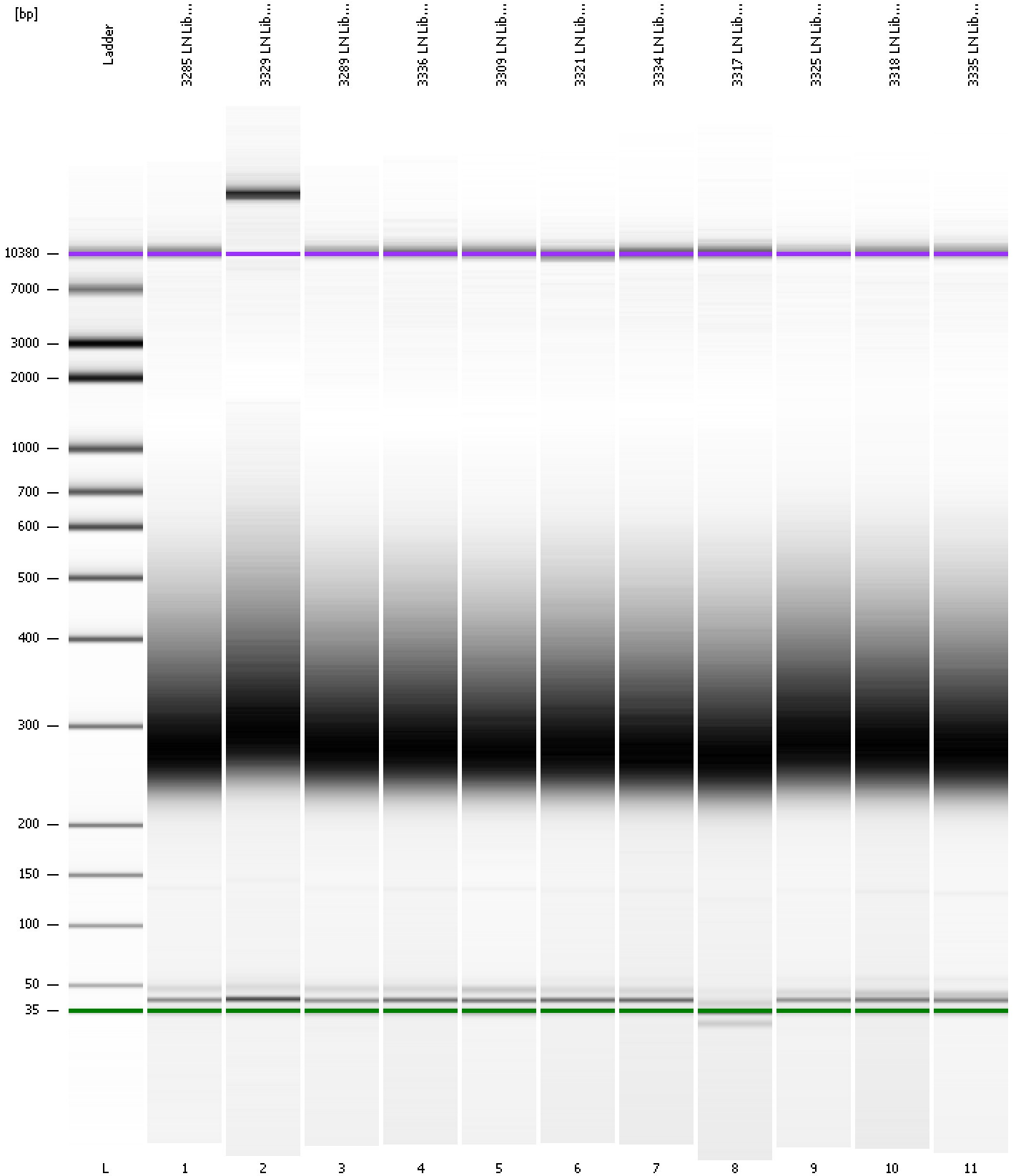
**Region table for sample 11 : 3335 LN Library**

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	333	1,351.0	23,743.7	4,852.13	95	25.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
Modified: 1/14/2016 4:52:42 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-01-14\2016-01-14\_004.xad

Created: 1/14/2016 4:07:47 PM  
 Modified: 1/14/2016 4:52:42 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		1/14/2016 4:48:14 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-01-14\2016-01-14_004.xad)		Instrument	Run		1/14/2016 4:07:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/14/2016 4:07:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/14/2016 4:07:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/14/2016 4:07:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/14/2016 4:07:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/14/2016 4:07:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/14/2016 4:07:52 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1