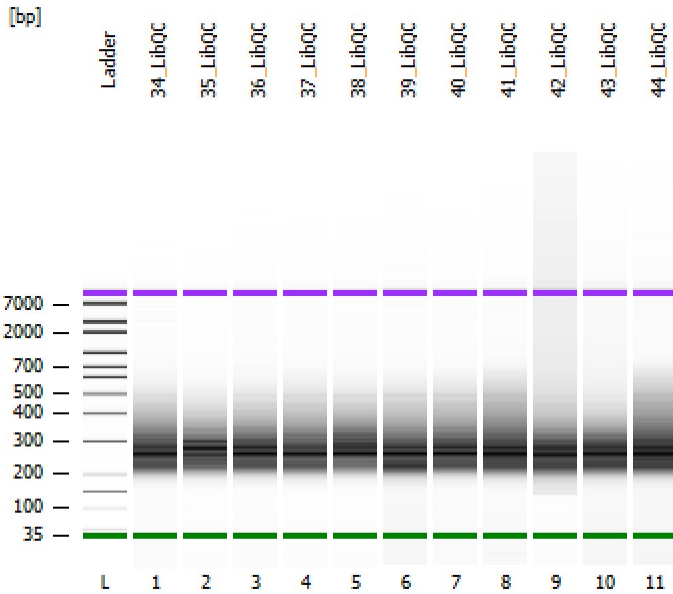


Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
Modified: 7/28/2020 10:03:04 AM

Electrophoresis File Run Summary



Instrument Information:

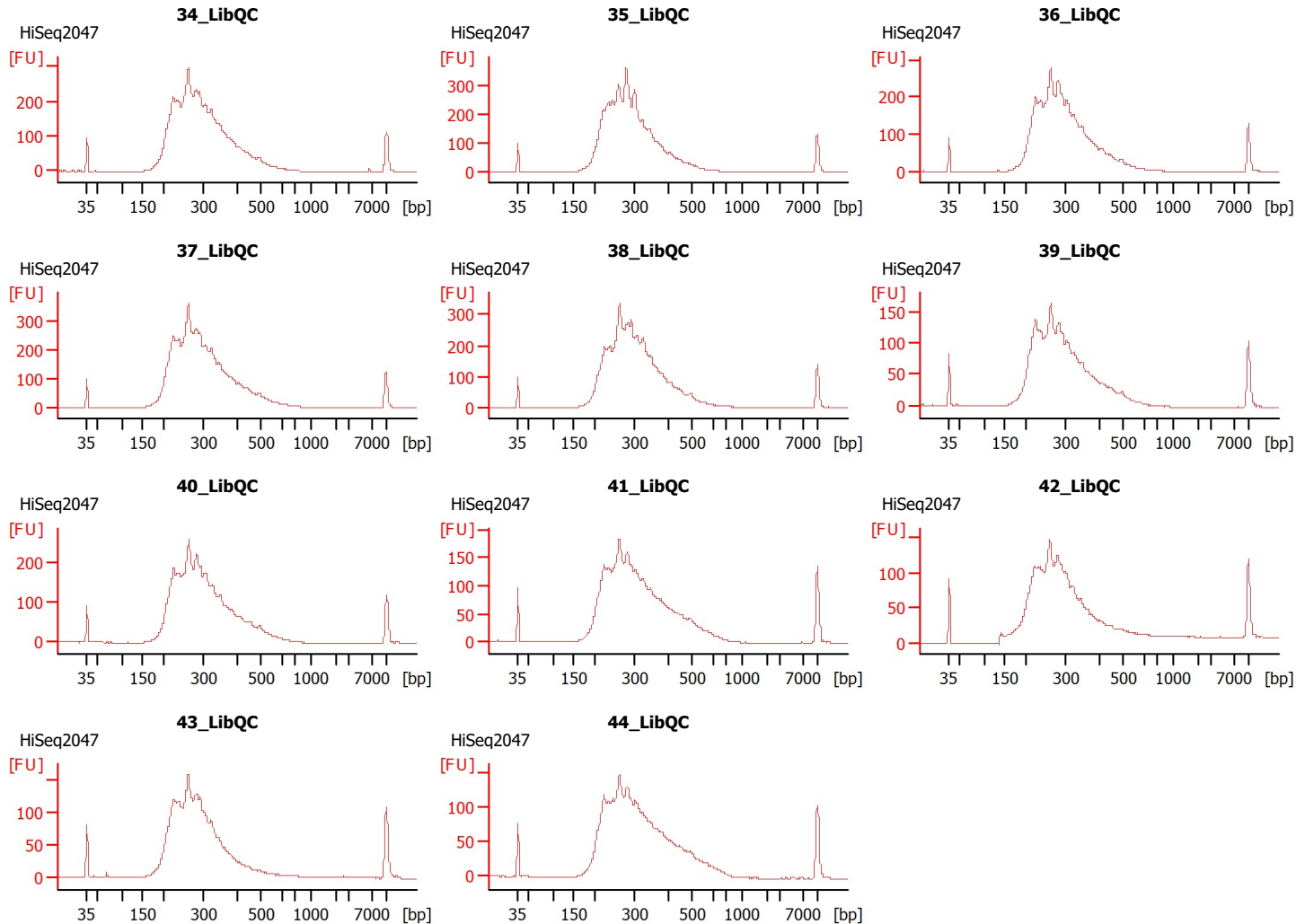
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
34_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
35_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
36_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
37_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
38_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
39_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
40_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
41_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
42_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
43_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
44_LibQC	HiSeq2047	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 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

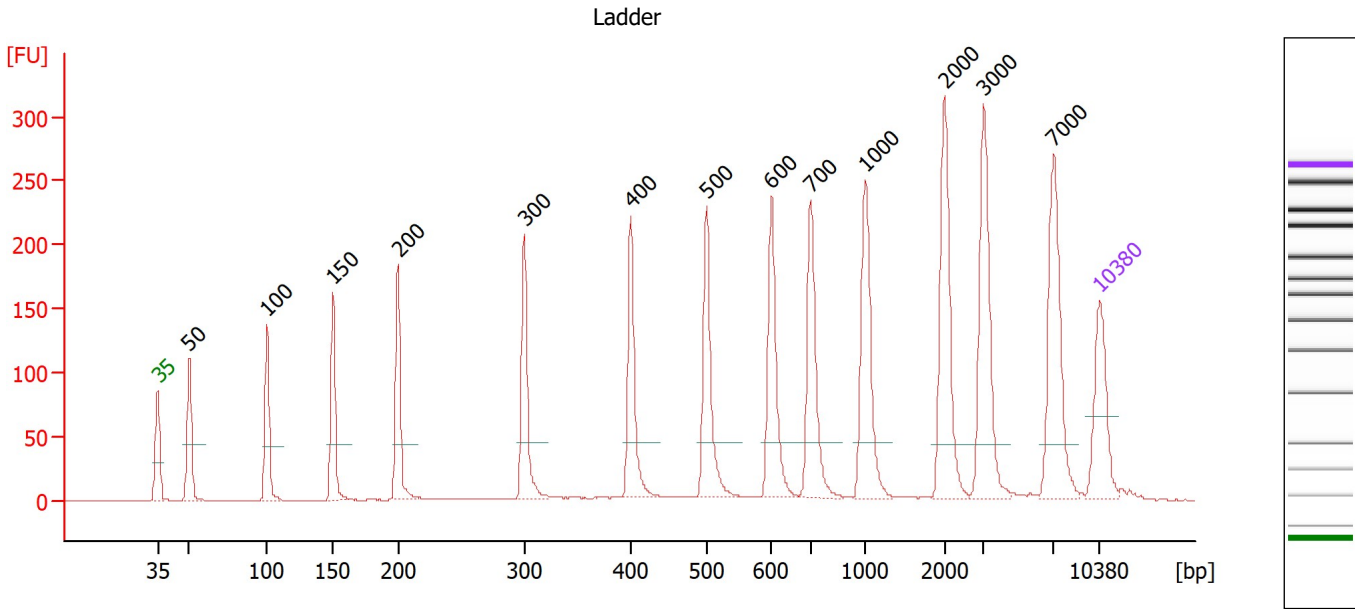
**Ladder**

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: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

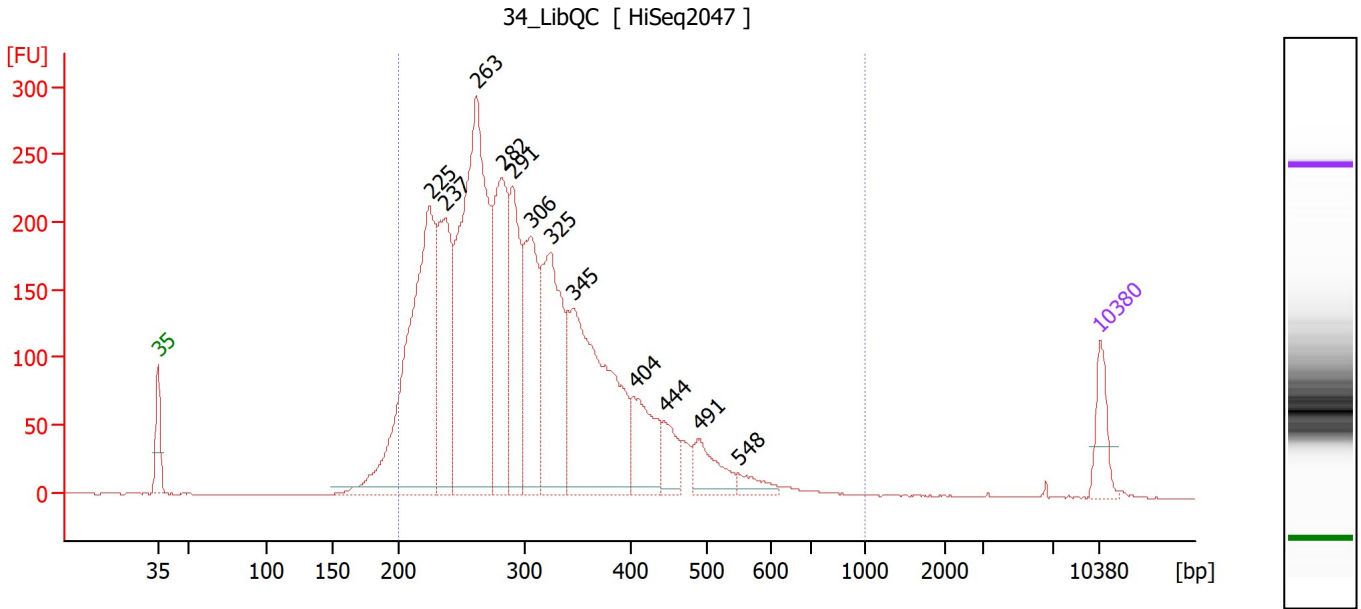
**Peak table for Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 34 LibQC**

Number of peaks found: 12                      Corr. Area 1: 4,946.3  
 Noise: 0.4

**Peak table for sample 1 : 34 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	225	1,159.18	7,798.3	
3	237	486.59	3,108.2	
4	263	1,312.81	7,571.4	
5	282	514.80	2,761.1	
6	291	409.06	2,131.1	
7	306	409.67	2,026.0	
8	325	541.31	2,525.1	
9	345	782.00	3,433.5	
10	404	205.59	771.0	
11	444	96.11	328.0	
12	491	119.19	367.9	
13	548	40.35	111.5	
14	10,380	75.00	10.9	Upper Marker

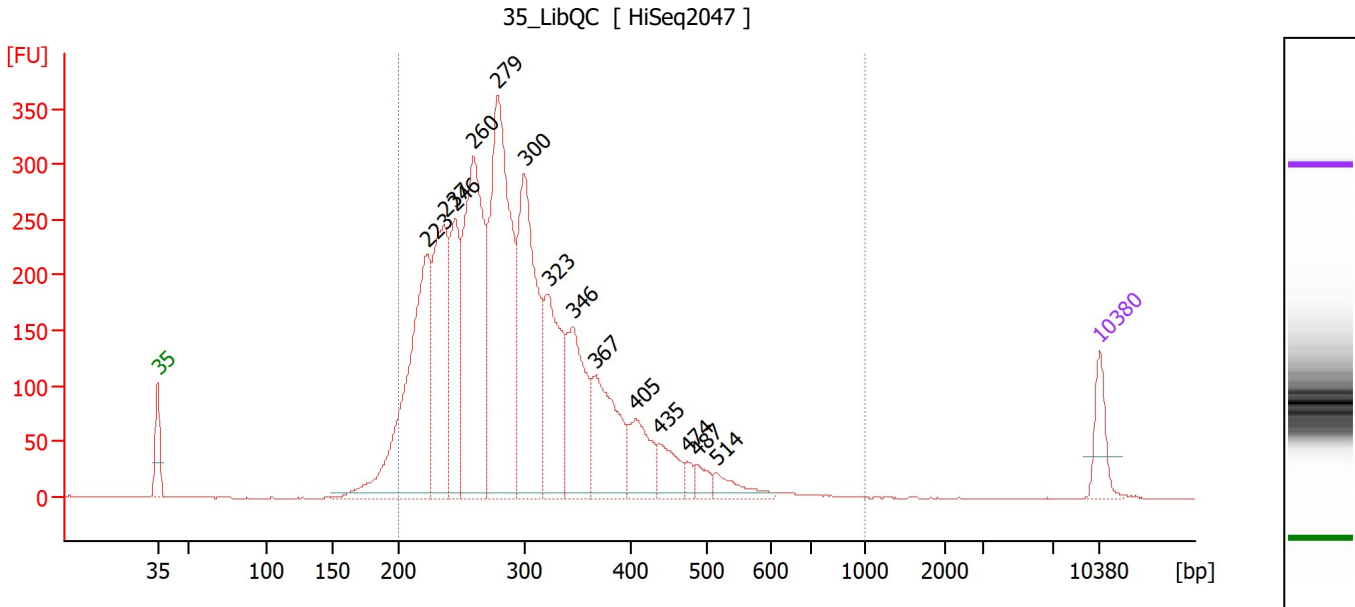
**Region table for sample 1 : 34 LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	4,946.3	96	310	27.8	6,004.41	31,693.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 35 LibQC**

Number of peaks found: 14                      Corr. Area 1: 5,443.1  
 Noise: 0.3

**Peak table for sample 2 : 35 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	223	899.10	6,096.8	
3	237	579.56	3,710.3	
4	246	390.01	2,405.4	
5	260	888.97	5,181.3	
6	279	1,053.61	5,721.6	
7	300	747.75	3,773.9	
8	323	403.11	1,892.8	
9	346	362.89	1,590.1	
10	367	322.69	1,332.2	
11	405	158.77	593.4	
12	435	104.86	364.8	
13	474	29.38	93.9	
14	487	40.52	126.2	
15	514	60.07	176.9	
16	10,380	75.00	10.9	Upper Marker

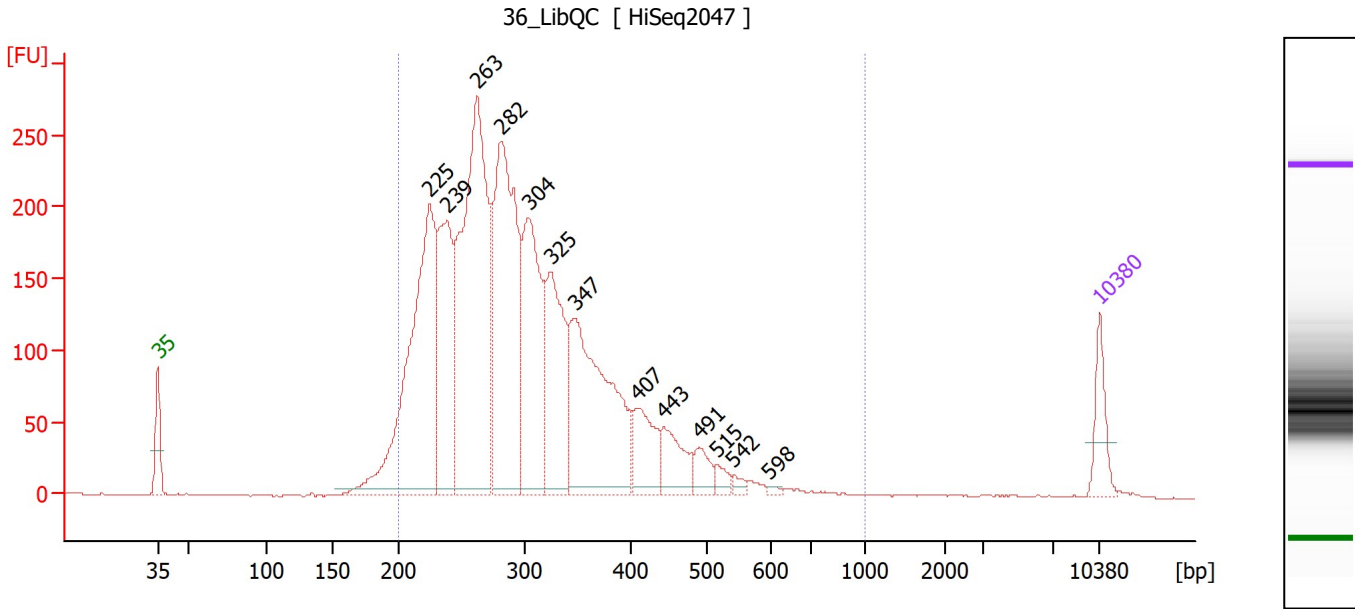
**Region table for sample 2 : 35 LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,443.1	97	302	25.5	5,876.01	31,385.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 36 LibQC**

Number of peaks found: 13                      Corr. Area 1: 4,470.5  
 Noise: 0.4

**Peak table for sample 3 : 36 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	225	1,015.13	6,836.3	
3	239	464.41	2,944.4	
4	263	1,175.59	6,767.2	
5	282	875.00	4,709.4	
6	304	539.65	2,687.6	
7	325	386.60	1,804.8	
8	347	659.28	2,875.2	
9	407	158.95	591.2	
10	443	122.18	417.6	
11	491	56.74	175.1	
12	515	27.94	82.3	
13	542	14.79	41.4	
14	598	5.85	14.8	
15	10,380	75.00	10.9	Upper Marker

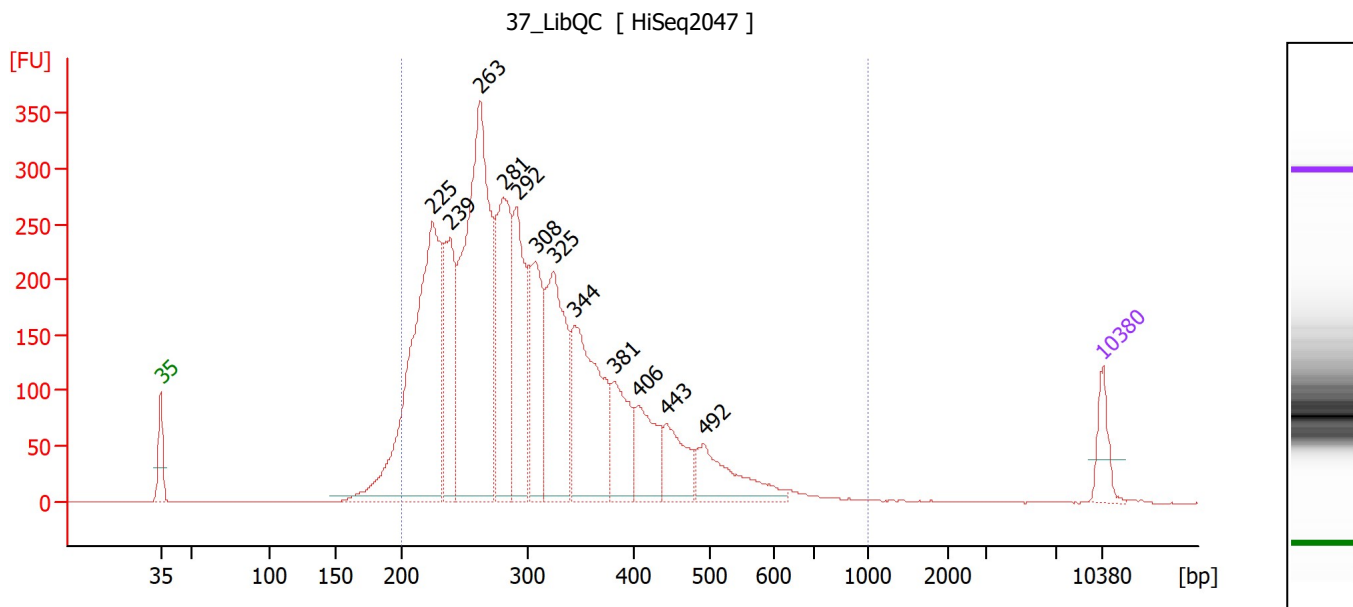
**Region table for sample 3 : 36 LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	4,470.5	97	307	27.2	5,441.67	28,838.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 37 LibQC**

Number of peaks found: 12      Corr. Area 1: 5,745.0  
 Noise: 0.4

**Peak table for sample 4 : 37 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	225	1,354.74	9,128.1	
3	239	448.37	2,840.8	
4	263	1,469.04	8,471.1	
5	281	615.34	3,319.4	
6	292	491.19	2,550.0	
7	308	358.72	1,765.3	
8	325	566.33	2,642.5	
9	344	594.95	2,619.3	
10	381	242.04	962.4	
11	406	214.11	798.7	
12	443	178.74	611.5	
13	492	229.28	705.6	
14	10,380	75.00	10.9	Upper Marker

**Region table for sample 4 : 37 LibQC**

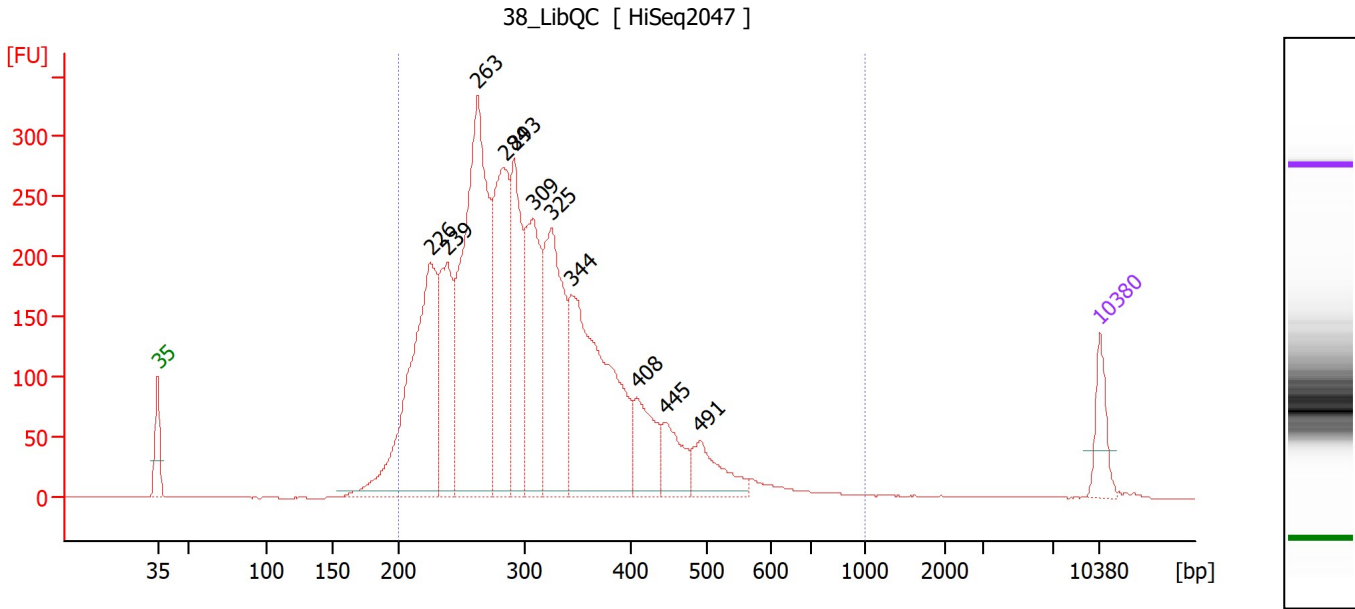
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,745.0	96	313	29.1	6,779.24	35,671.2	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 38 LibQC**

Number of peaks found: 11                      Corr. Area 1: 5,341.7  
 Noise: 0.3

**Peak table for sample 5 : 38 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	226	894.04	6,001.2	
3	239	395.46	2,504.7	
4	263	1,201.97	6,928.3	
5	284	563.72	3,004.9	
6	293	441.93	2,287.8	
7	309	444.14	2,180.4	
8	325	548.03	2,553.2	
9	344	809.03	3,558.5	
10	408	188.36	699.8	
11	445	125.37	426.5	
12	491	137.02	423.2	
13	10,380	75.00	10.9	Upper Marker

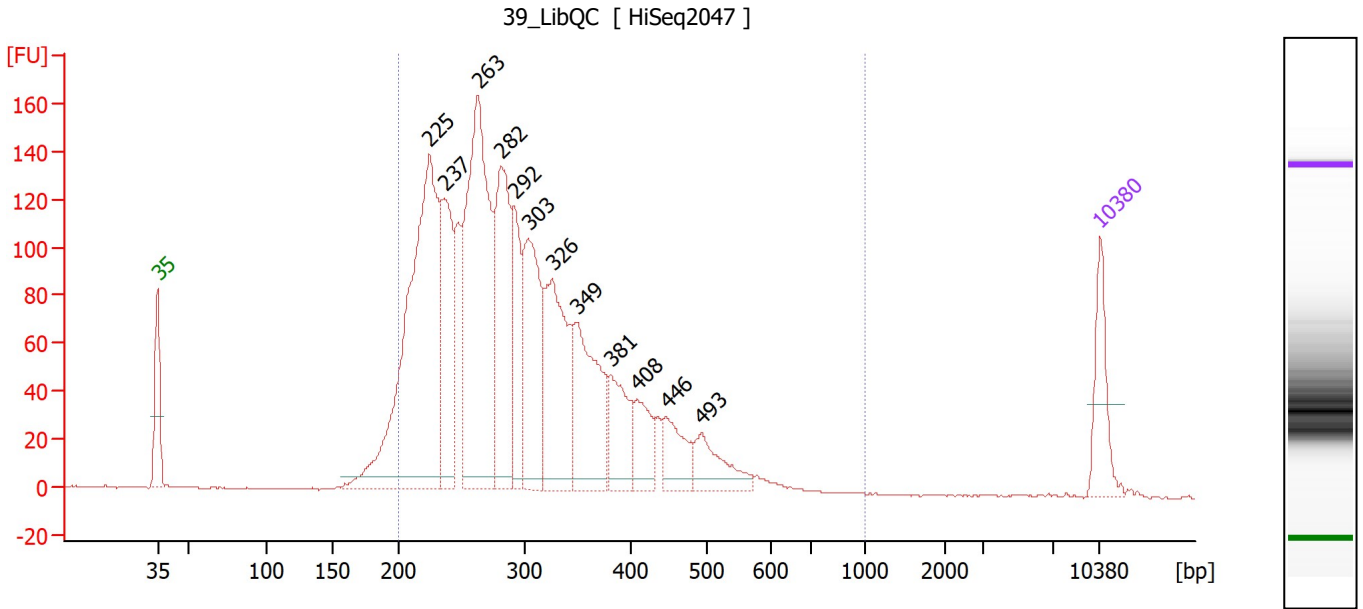
**Region table for sample 5 : 38 LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	5,341.7	97	315	27.4	5,704.14	29,563.2	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 39 LibQC**

Number of peaks found: 12                      Corr. Area 1: 2,696.5  
 Noise: 0.2

**Peak table for sample 6 : 39 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	225	851.14	5,734.8	
3	237	258.21	1,651.3	
4	263	640.77	3,686.9	
5	282	327.90	1,763.7	
6	292	167.47	868.9	
7	303	269.60	1,346.1	
8	326	297.75	1,381.8	
9	349	239.31	1,037.5	
10	381	119.43	475.4	
11	408	79.09	293.7	
12	446	79.93	271.3	
13	493	84.21	258.6	
14	10,380	75.00	10.9	Upper Marker

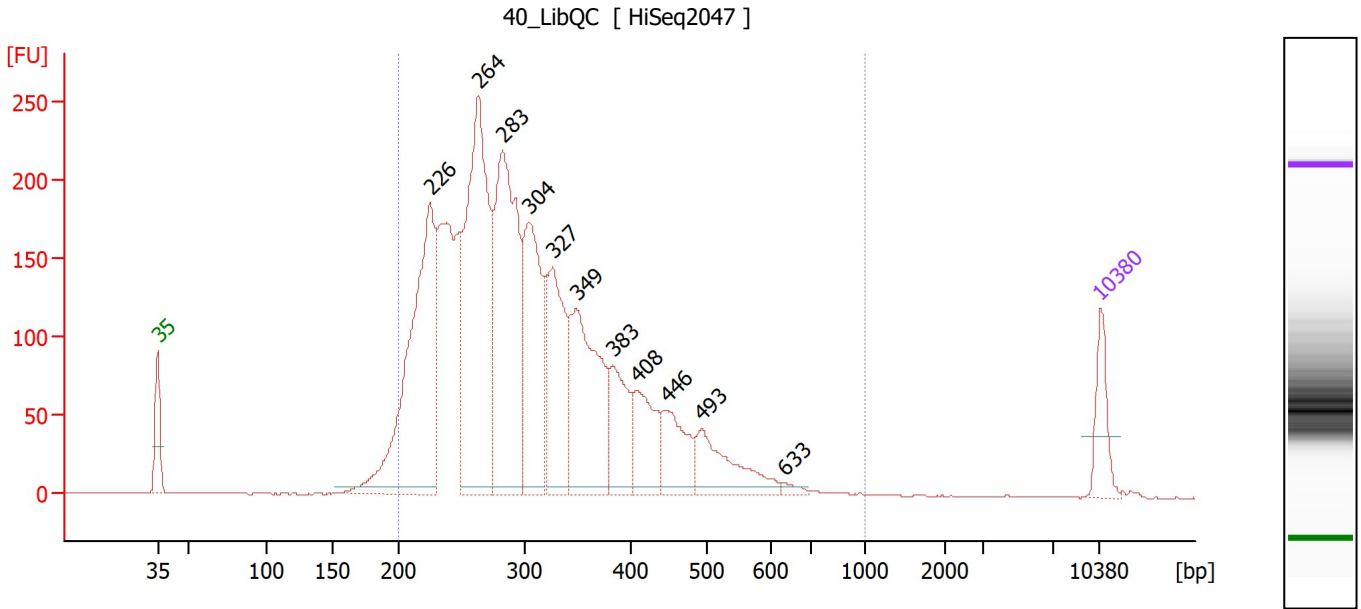
**Region table for sample 6 : 39 LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,696.5	96	304	26.4	3,474.13	18,602.5	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 40 LibQC**

Number of peaks found: 11      Corr. Area 1: 4,182.6  
 Noise: 0.3

**Peak table for sample 7 : 40 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	226	876.33	5,877.6	
3	264	898.44	5,160.4	
4	283	753.89	4,035.9	
5	304	431.11	2,148.3	
6	327	356.12	1,651.4	
7	349	446.31	1,939.1	
8	383	183.29	724.9	
9	408	164.17	609.3	
10	446	144.08	489.3	
11	493	178.20	547.8	
12	633	13.07	31.3	
13	10,380	75.00	10.9	Upper Marker

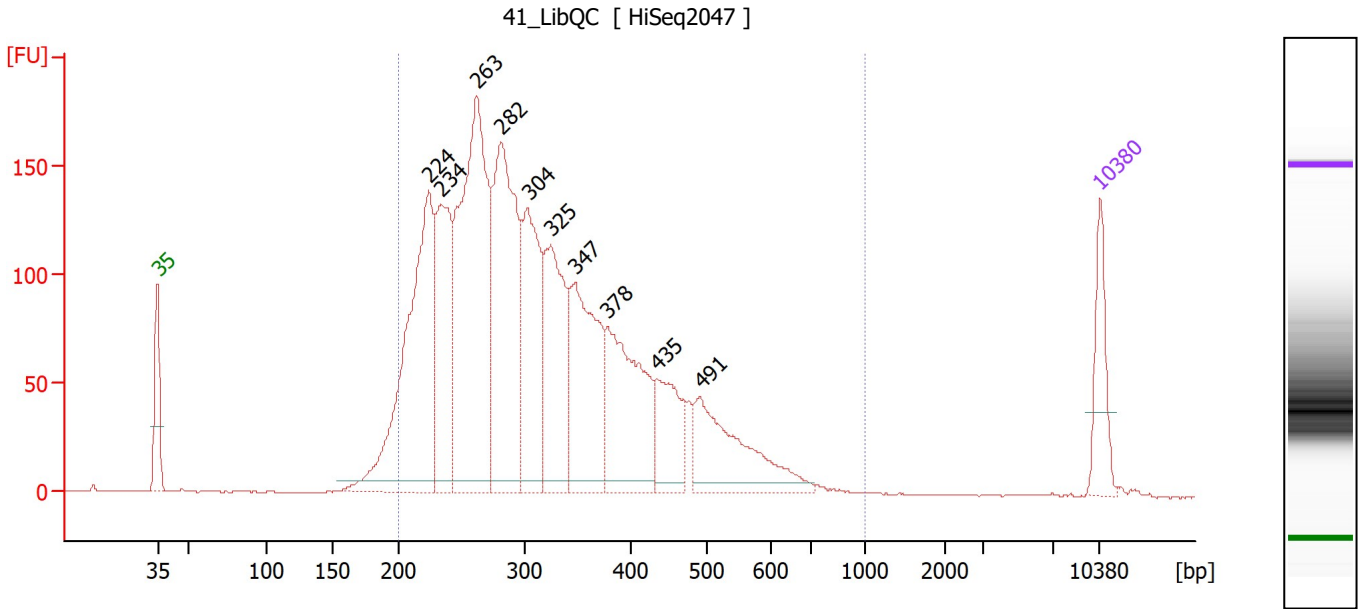
**Region table for sample 7 : 40 LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	4,182.6	97	314	28.1	4,973.20	25,999.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 41\_LibQC**

Number of peaks found: 10      Corr. Area 1: 3,410.5  
 Noise: 0.3

**Peak table for sample 8 : 41\_LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	627.16	4,237.5	
3	234	302.99	1,959.8	
4	263	748.34	4,310.4	
5	282	519.44	2,792.2	
6	304	302.20	1,508.3	
7	325	290.06	1,351.9	
8	347	317.01	1,383.1	
9	378	300.50	1,205.2	
10	435	129.82	451.8	
11	491	219.37	676.6	
12	10,380	75.00	10.9	Upper Marker

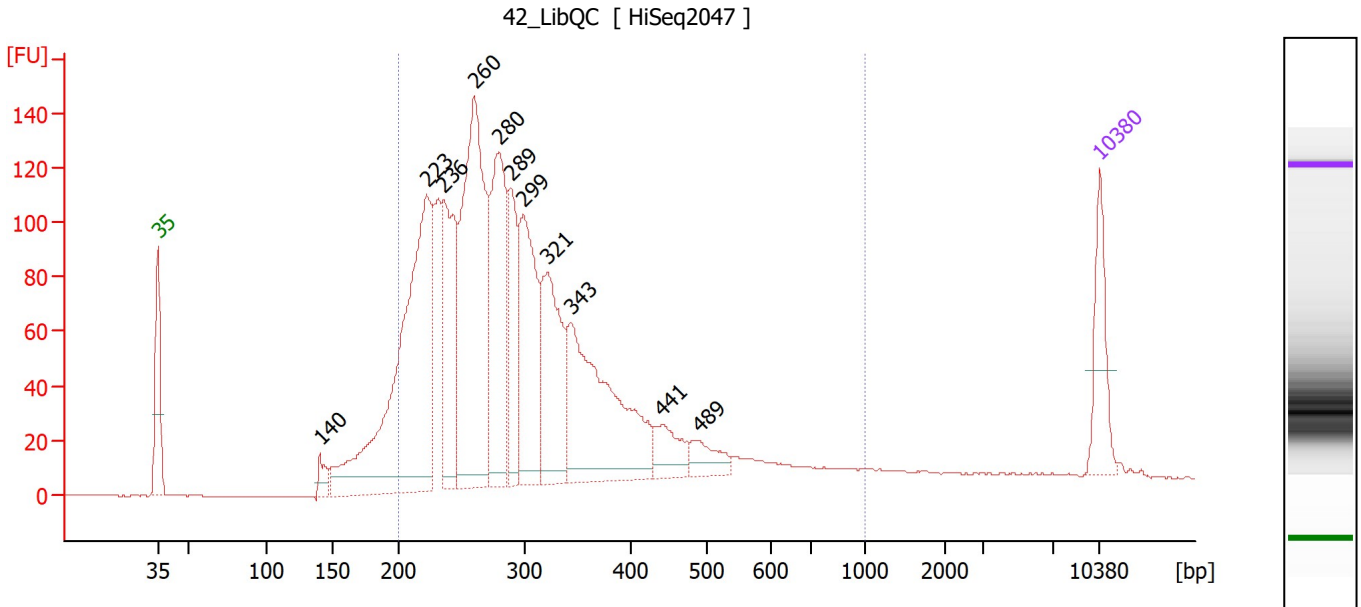
**Region table for sample 8 : 41\_LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	3,410.5	97	326	30.3	3,697.74	18,983.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 42\_LibQC**

Number of peaks found: 11      Corr. Area 1: 2,406.7  
 Noise: 0.3

**Peak table for sample 9 : 42\_LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	140	28.13	304.5	
3	223	728.38	4,949.2	
4	236	250.23	1,606.3	
5	260	576.60	3,356.0	
6	280	317.09	1,713.0	
7	289	156.84	821.3	
8	299	262.46	1,328.0	
9	321	240.36	1,134.5	
10	343	391.66	1,728.2	
11	441	61.06	210.0	
12	489	44.48	137.8	
13	10,380	75.00	10.9	Upper Marker

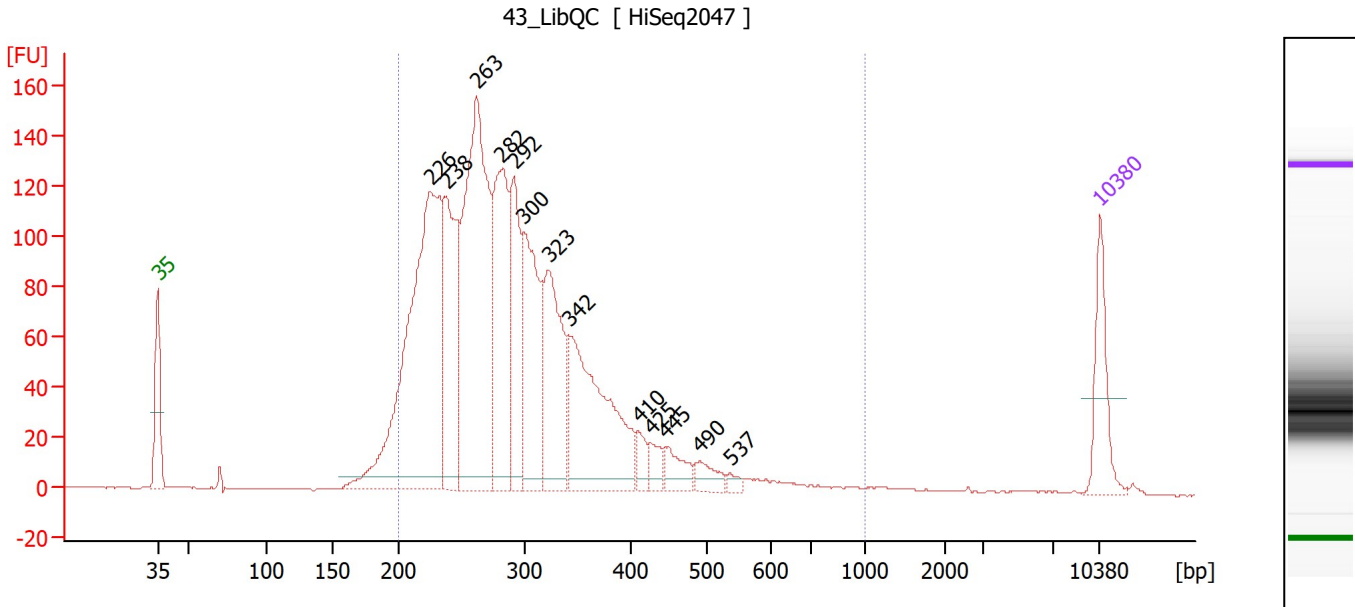
**Region table for sample 9 : 42\_LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,406.7	87	319	36.6	3,211.32	17,018.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 43 LibQC**

Number of peaks found: 13      Corr. Area 1: 2,372.5  
 Noise: 0.2

**Peak table for sample 10 : 43 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	226	767.76	5,145.8	
3	238	292.58	1,862.5	
4	263	641.49	3,702.2	
5	282	305.59	1,643.9	
6	292	192.58	999.9	
7	300	259.94	1,314.6	
8	323	244.74	1,148.8	
9	342	335.89	1,488.8	
10	410	30.17	111.6	
11	425	26.13	93.1	
12	445	41.45	141.0	
13	490	30.66	94.7	
14	537	9.51	26.9	
15	10,380	75.00	10.9	Upper Marker

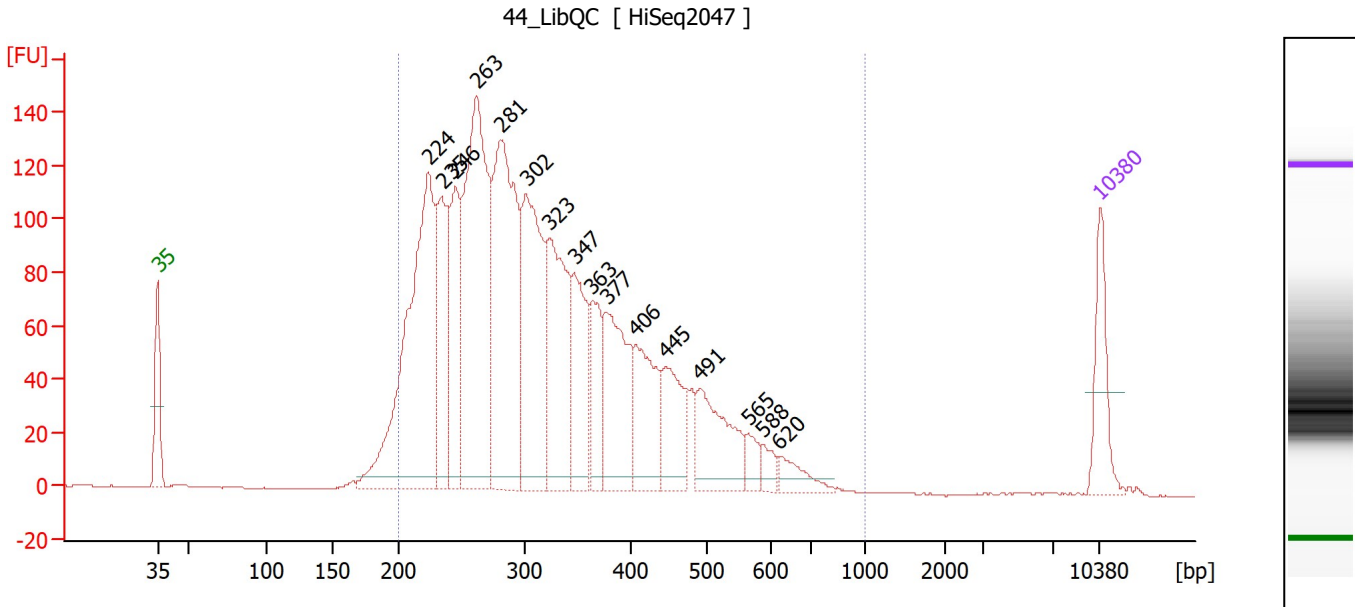
**Region table for sample 10 : 43 LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,372.5	95	300	28.8	3,111.21	16,839.3	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 44 LibQC**

Number of peaks found: 16      Corr. Area 1: 2,857.5  
 Noise: 0.2

**Peak table for sample 11 : 44 LibQC**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	627.56	4,244.5	
3	235	196.77	1,269.4	
4	246	208.45	1,285.5	
5	263	565.93	3,265.8	
6	281	494.34	2,663.3	
7	302	351.22	1,762.1	
8	323	284.50	1,333.2	
9	347	170.16	742.0	
10	363	105.43	439.9	
11	377	206.36	830.2	
12	406	147.85	551.6	
13	445	116.43	396.2	
14	491	145.94	450.8	
15	565	27.84	74.6	
16	588	21.89	56.5	
17	620	35.34	86.4	
18	10,380	75.00	10.9	Upper Marker

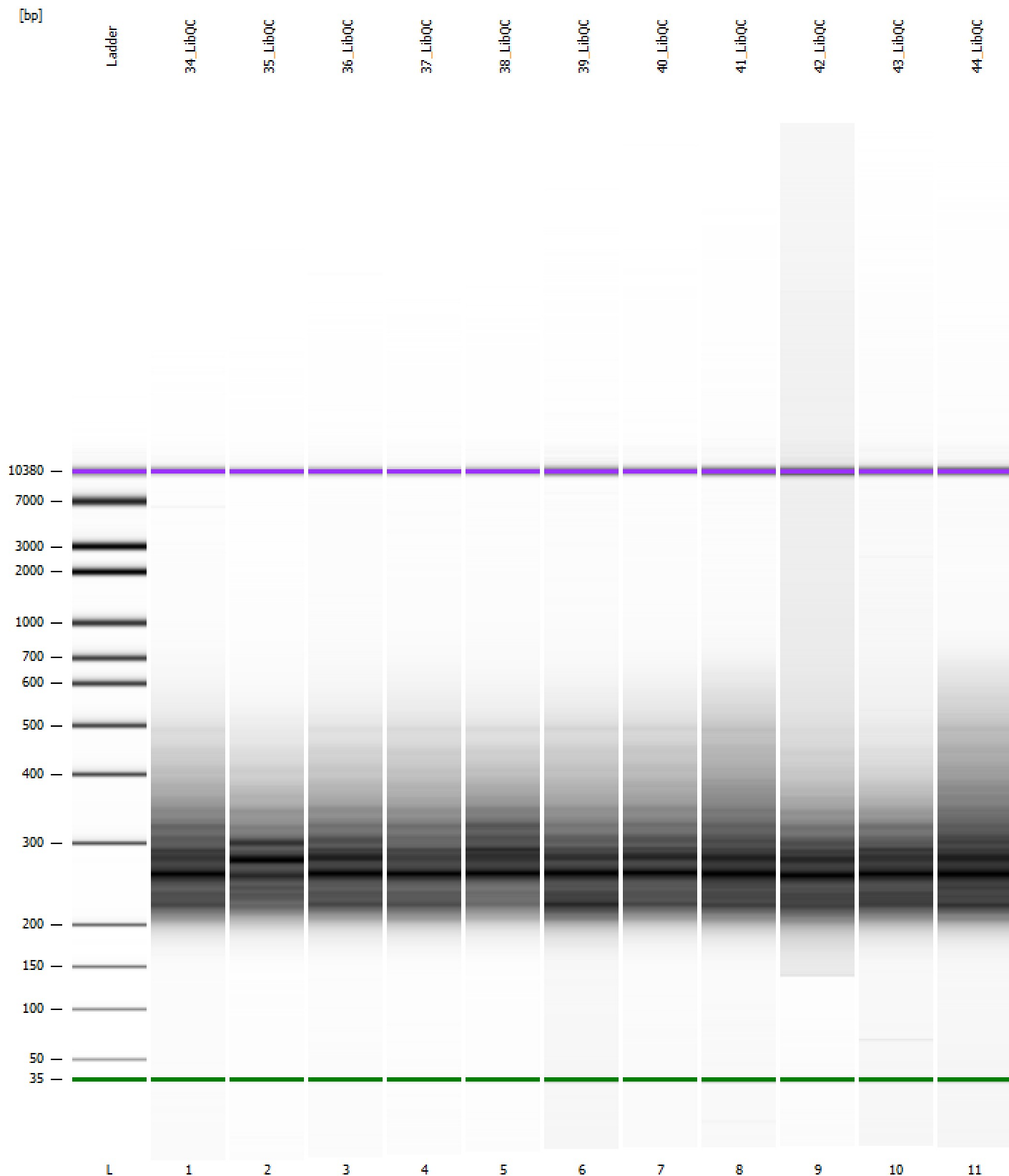
**Region table for sample 11 : 44 LibQC**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,857.5	97	329	30.8	3,696.00	18,856.4	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
Modified: 7/28/2020 10:03:04 AM

Gel Image





Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-07-28\_003.xad

Created: 7/28/2020 9:22:32 AM  
 Modified: 7/28/2020 10:03:04 AM

**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		7/28/2020 10:03:00 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-07-28\Bioanalyze r1_High Sensitivity DNA Assay_2020-07-28_003.xad)		Instrument	Run		7/28/2020 9:22:37 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/28/2020 9:22:37 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/28/2020 9:22:37 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/28/2020 9:22:37 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/28/2020 9:22:37 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/28/2020 9:22:37 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/28/2020 9:22:37 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB