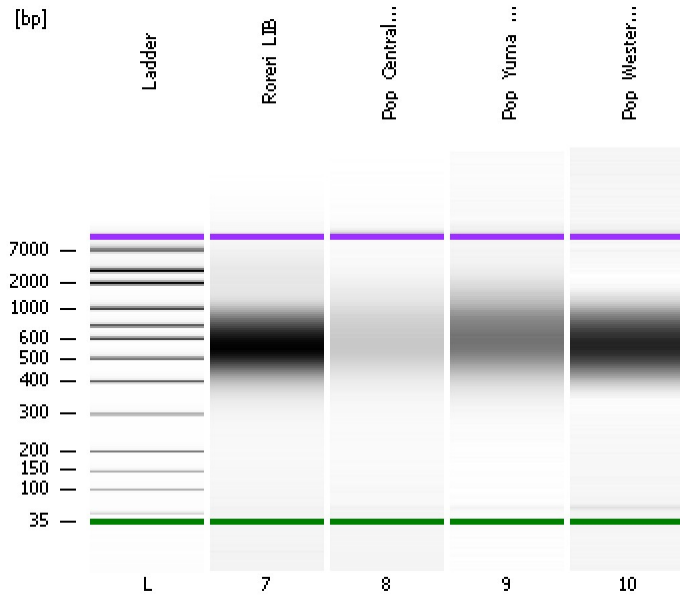


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:11:23 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

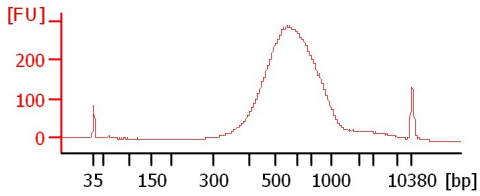
Assay Information:

Assay Origin Path: C:\Program Files\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

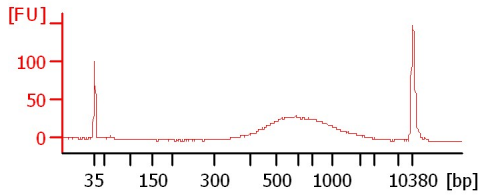
Chip Information:

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

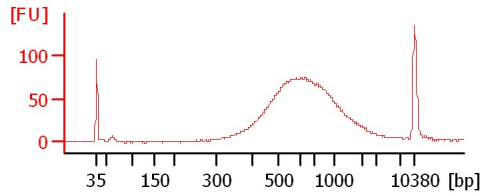
**Roreri\_LIB**



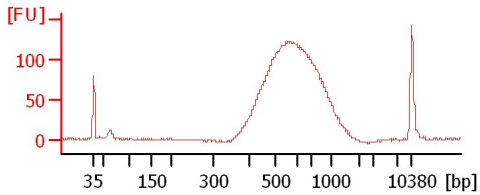
**Pop\_Central\_LIB (1:3)**



**Pop\_Yuma\_LIB (1:3)**



**Pop\_Western\_LIB (1:3)**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:11:23 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Roreri_LIB		<input type="checkbox"/>				
Pop_Central_LIB (1:3)		<input type="checkbox"/>				
Pop_Yuma_LIB (1:3)		<input type="checkbox"/>				
Pop_Western_LIB (1:3)		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>				

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

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:11:23 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

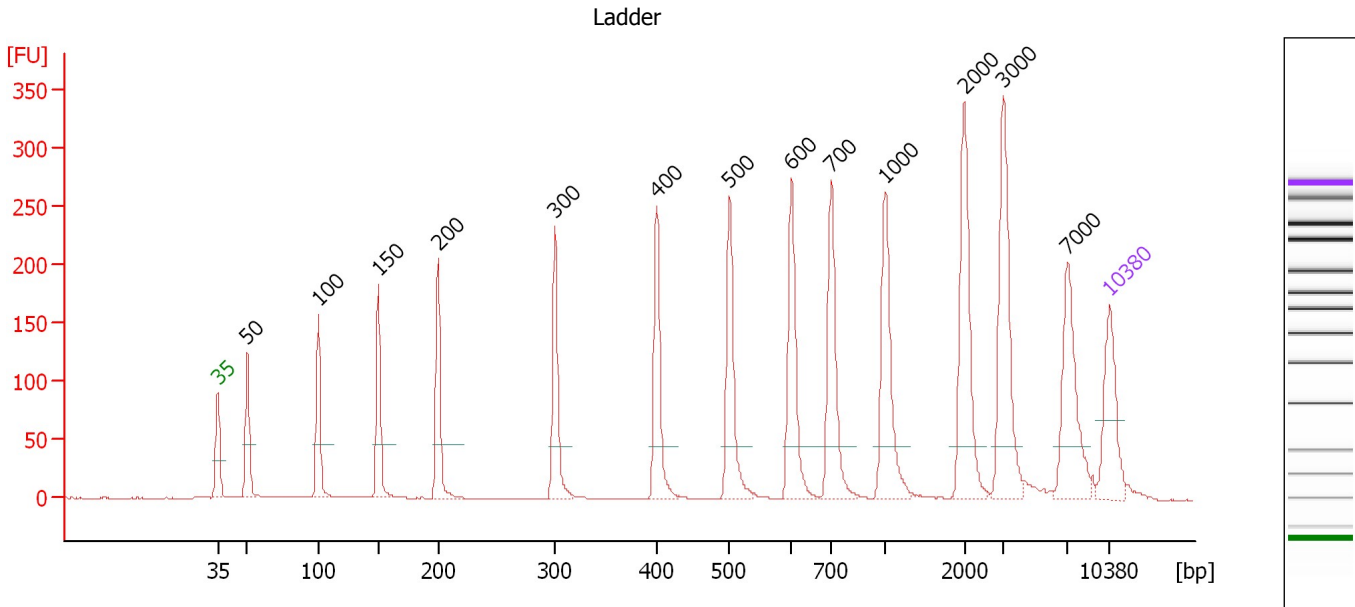
**Ladder**

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:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:11:23 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.3

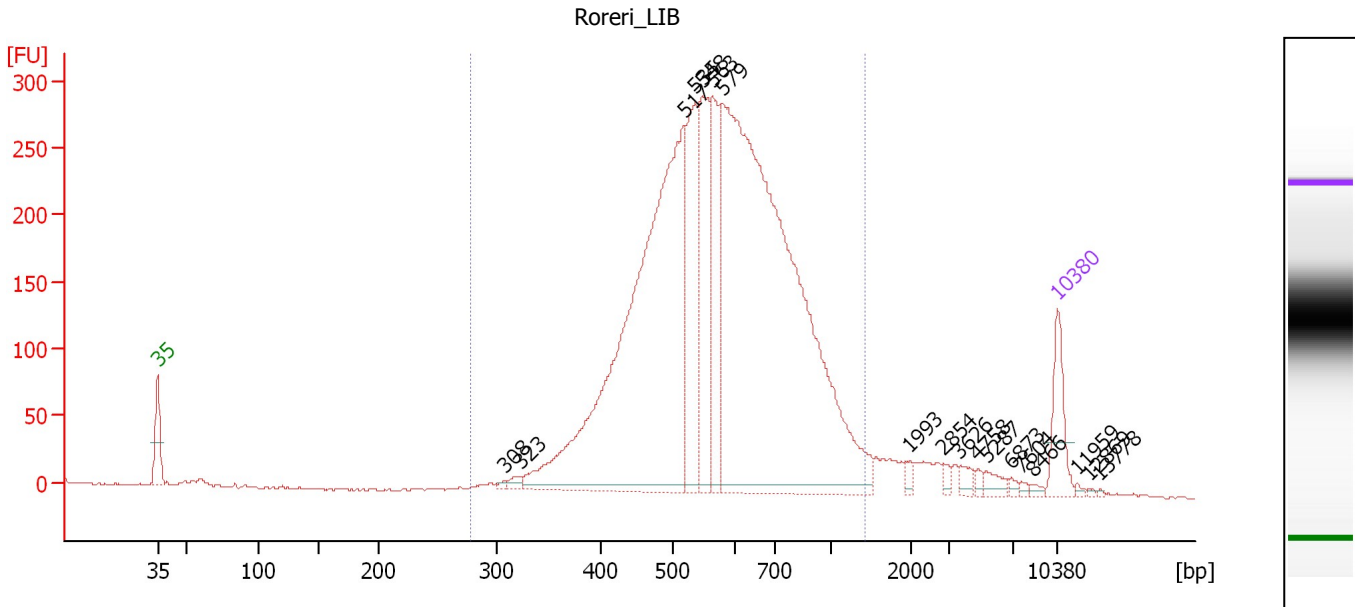
**Peak table for Ladder**

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.87
4	150	150.00	1,515.2	Ladder Peak	55.59
5	200	150.00	1,136.4	Ladder Peak	60.28
6	300	150.00	757.6	Ladder Peak	69.44
7	400	150.00	568.2	Ladder Peak	77.44
8	500	150.00	454.5	Ladder Peak	83.17
9	600	150.00	378.8	Ladder Peak	87.98
10	700	150.00	324.7	Ladder Peak	91.12
11	1,000	150.00	227.3	Ladder Peak	95.34
12	2,000	150.00	113.6	Ladder Peak	101.58
13	3,000	150.00	75.8	Ladder Peak	104.63
14	7,000	150.00	32.5	Ladder Peak	109.65
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:11:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Roreri\_LIB**

Number of peaks found: 18                      Corr. Area 1: 4,724.2  
 Noise: 0.6

**Peak table for sample 7 : Roreri\_LIB**

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	308	5.18	25.5		70.06
3	323	13.90	65.3		71.25
4	517	1,381.12	4,046.0		84.00
5	535	283.12	801.9		84.85
6	548	272.94	755.0		85.46
7	563	212.53	571.5		86.22
8	579	1,788.72	4,678.7		86.98
9	1,993	10.59	8.1		101.53
10	2,854	9.46	5.0		104.18
11	3,626	15.52	6.5		105.42
12	4,758	7.78	2.5		106.84
13	5,287	18.25	5.2		107.50
14	6,873	5.74	1.3		109.49
15	7,604	4.91	1.0		110.25
16	8,466	5.76	1.0		111.10
17	10,380	75.00	10.9	Upper Marker	113.00
18	11,959	0.00	0.0		114.56
19	12,869	0.00	0.0		115.46
20	13,778	0.00	0.0		116.36

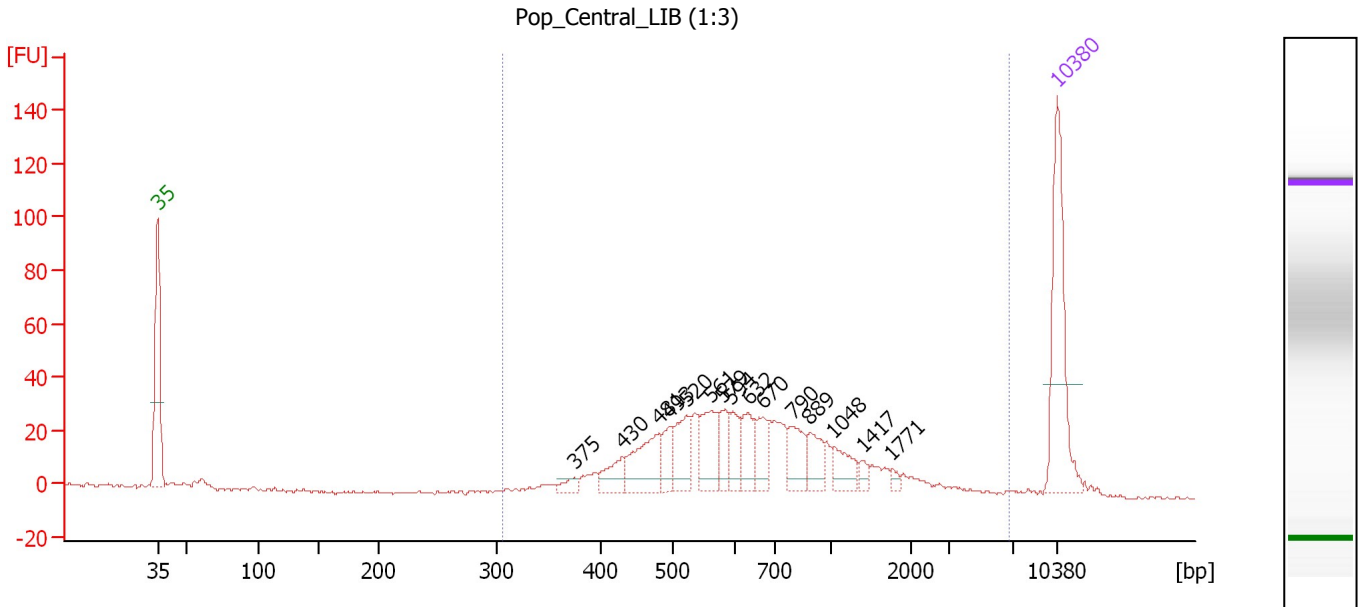
**Region table for sample 7 : Roreri\_LIB**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
277	1,447	605	3,924.48	4,724.2	10,747.6	94	29.0

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:11:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Pop\_Central\_LIB (1:3)**

Number of peaks found: 15                      Corr. Area 1: 612.7  
 Noise: 0.6

**Peak table for sample 8 : Pop\_Central\_LIB (1:3)**

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	375	7.24	29.3		75.41
3	430	20.39	71.9		79.15
4	481	45.39	143.0		82.08
5	493	18.82	57.8		82.79
6	520	33.35	97.1		84.14
7	561	37.32	100.8		86.10
8	579	20.23	52.9		86.97
9	594	20.19	51.5		87.68
10	632	25.13	60.3		88.98
11	670	23.32	52.7		90.18
12	790	26.56	50.9		92.38
13	889	19.97	34.0		93.77
14	1,048	19.21	27.8		95.64
15	1,417	4.99	5.3		97.95
16	1,771	3.39	2.9		100.15
17	10,380	75.00	10.9	Upper Marker	113.00

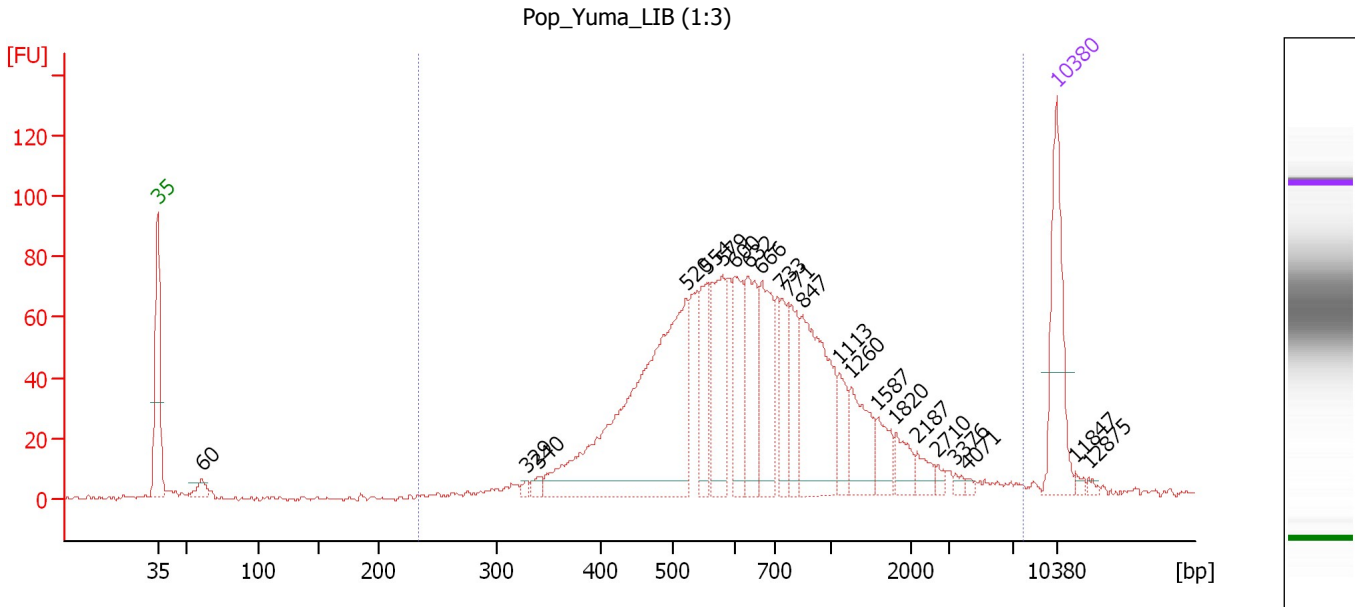
**Region table for sample 8 : Pop\_Central\_LIB (1:3)**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
305	6,696	839	435.58	612.7	1,067.8	96	80.1

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:11:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Pop\_Yuma\_LIB (1:3)**

Number of peaks found: 22                      Corr. Area 1: 1,484.5  
 Noise: 0.7

**Peak table for sample 9 : Pop\_Yuma\_LIB (1:3)**

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	60	15.30	384.8		46.44
3	329	4.32	19.9		71.73
4	340	7.73	34.4		72.65
5	520	365.85	1,066.1		84.13
6	554	60.87	166.4		85.78
7	579	80.66	210.9		86.99
8	600	62.04	156.8		87.96
9	632	74.59	178.9		88.97
10	666	78.00	177.6		90.04
11	733	37.66	77.8		91.59
12	771	51.54	101.3		92.12
13	847	130.35	233.2		93.19
14	1,113	25.83	35.2		96.04
15	1,260	46.51	55.9		96.97
16	1,587	22.96	21.9		99.00
17	1,820	18.30	15.2		100.45
18	2,187	12.50	8.7		102.15
19	2,710	4.77	2.7		103.75
20	3,376	3.73	1.7		105.10
21	4,071	2.56	1.0		105.98
22	10,380	75.00	10.9	Upper Marker	113.00
23	11,847	0.00	0.0		114.45
24	12,875	0.00	0.0		115.47

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:11:23 PM

**Electropherogram Summary Continued ...**

... Region table for sample 9 :

**Pop Yuma LIB (1:3)**

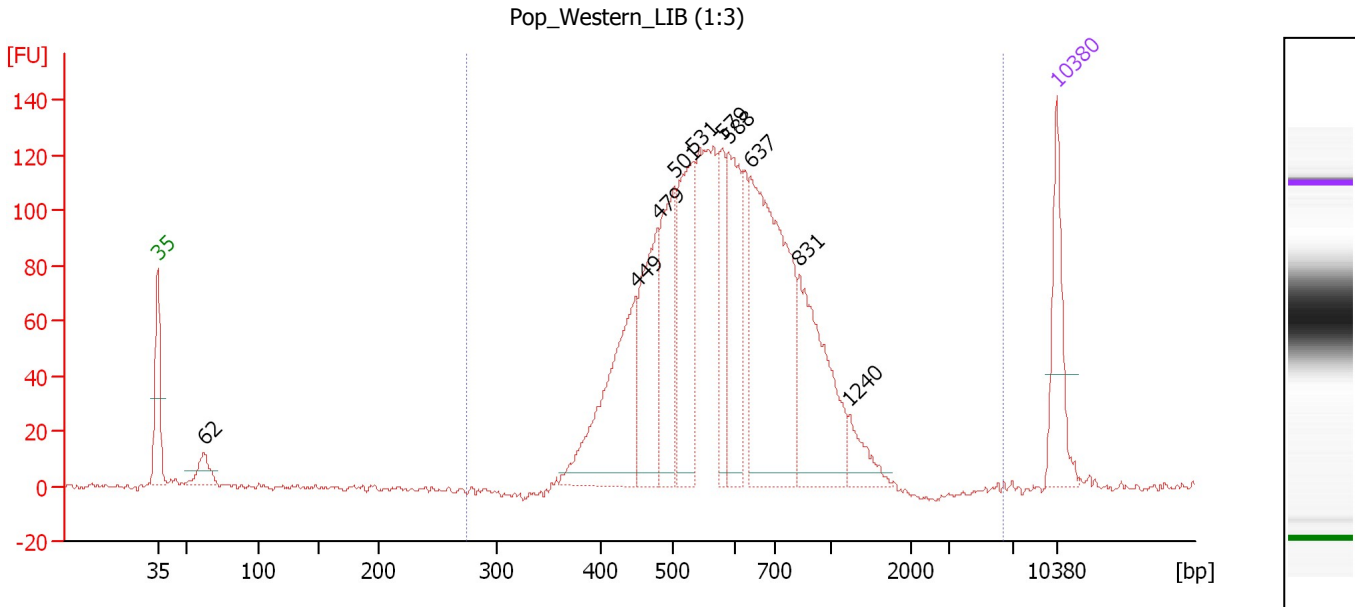
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/ $\mu$ l]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
233	7,775	845	1,248.33	1,484.5	3,117.3	 98	88.7



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:11:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Pop Western LIB (1:3)**

Number of peaks found: 10                      Corr. Area 1: 1,960.8  
 Noise: 1.2

**Peak table for sample 10 : Pop Western LIB (1:3)**

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	62	36.97	910.2		46.59
3	449	226.23	763.7		80.24
4	479	154.11	487.6		81.95
5	501	147.45	445.6		83.23
6	531	176.72	504.3		84.66
7	579	78.15	204.5		86.96
8	588	144.25	371.6		87.41
9	637	349.93	832.9		89.13
10	831	182.12	332.2		92.96
11	1,240	33.34	40.7		96.84
12	10,380	75.00	10.9	Upper Marker	113.00

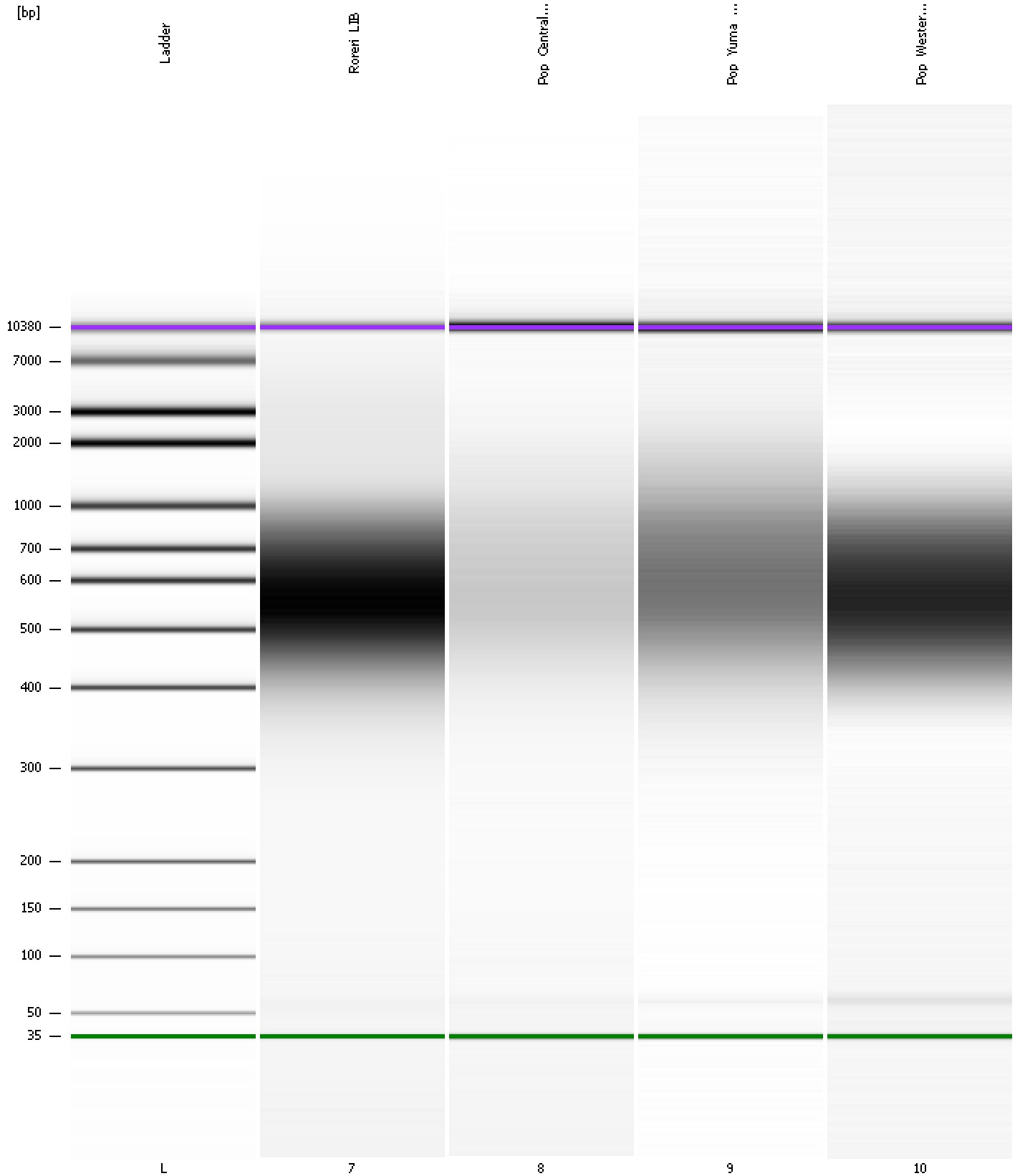
**Region table for sample 10 : Pop Western LIB (1:3)**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
274	6,377	626	1,775.28	1,960.8	4,711.3	99	31.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:11:23 PM

**Gel Image**

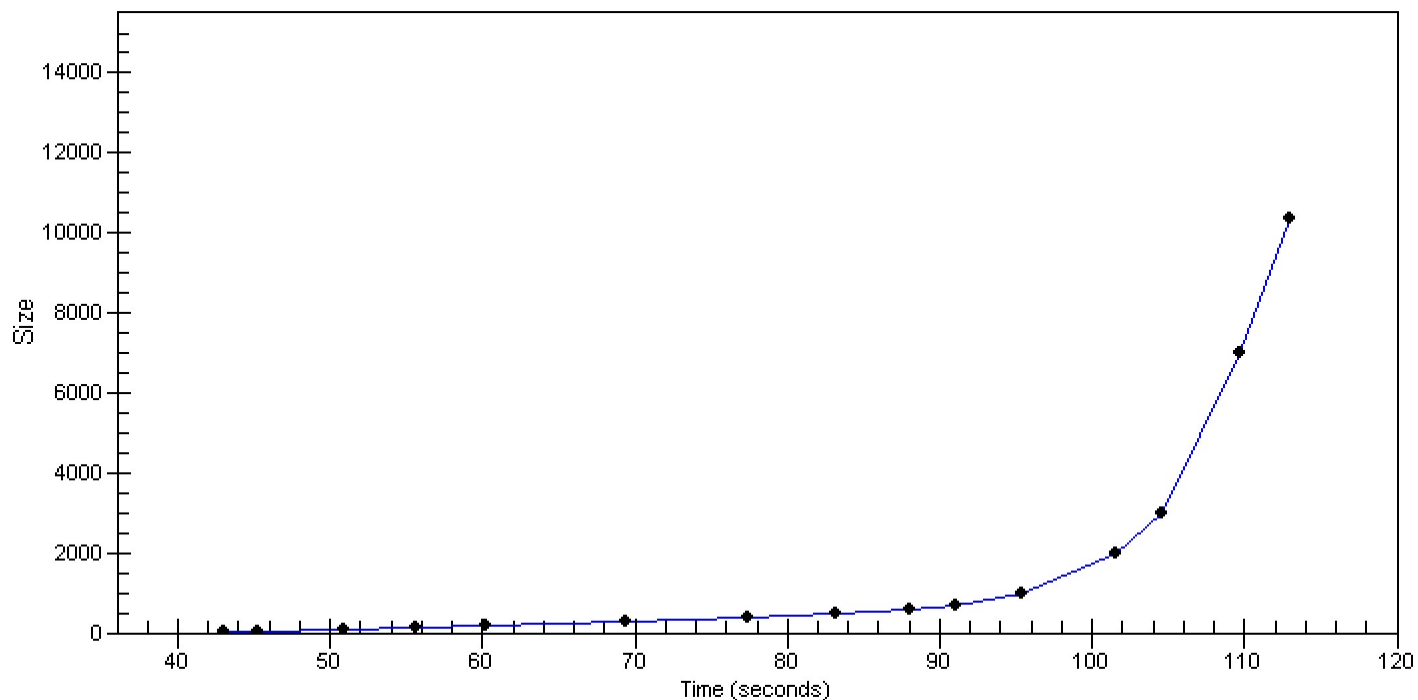


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
Modified: 10/25/2019 4:11:23 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...xpert\data\2019-10-25\2019-10-25\_003\_10X\_G103-104\_LibQC.xad

Created: 10/25/2019 2:45:10 PM  
 Modified: 10/25/2019 4:11:23 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		10/25/2019 3:26:28 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\2019-10-25\2019-10-25_003.xad)		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/25/2019 2:45:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1