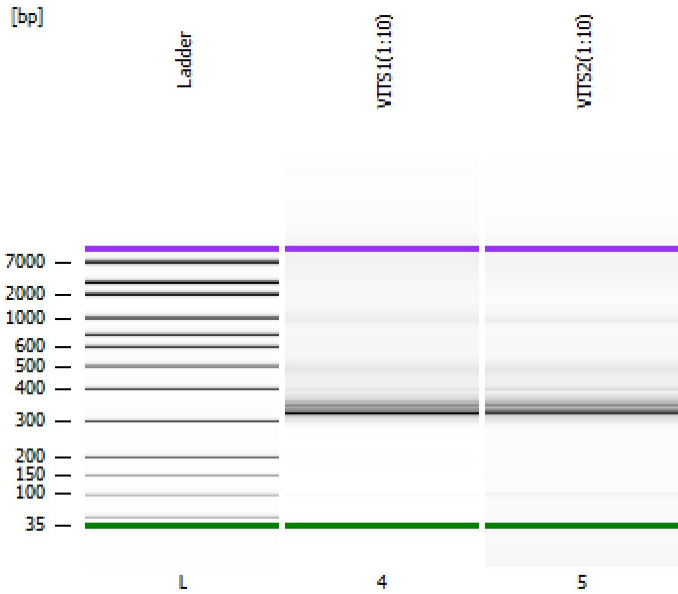


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
Modified: 2/3/2023 12:04:50 PM

**Electrophoresis File Run Summary**



Instrument Information:

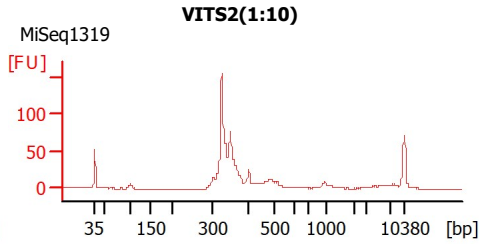
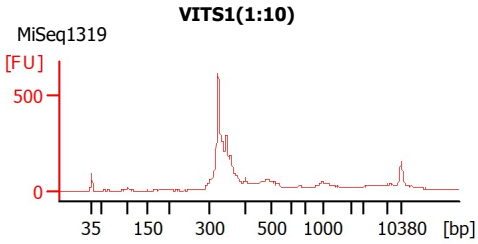
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (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: C:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
Modified: 2/3/2023 12:04:50 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
VITS1(1:10)	MiSeq1319	<input type="checkbox"/>		✓		
VITS2(1:10)	MiSeq1319	<input type="checkbox"/>		✓		
Ladder		<input type="checkbox"/>		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
Modified: 2/3/2023 12:04:50 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

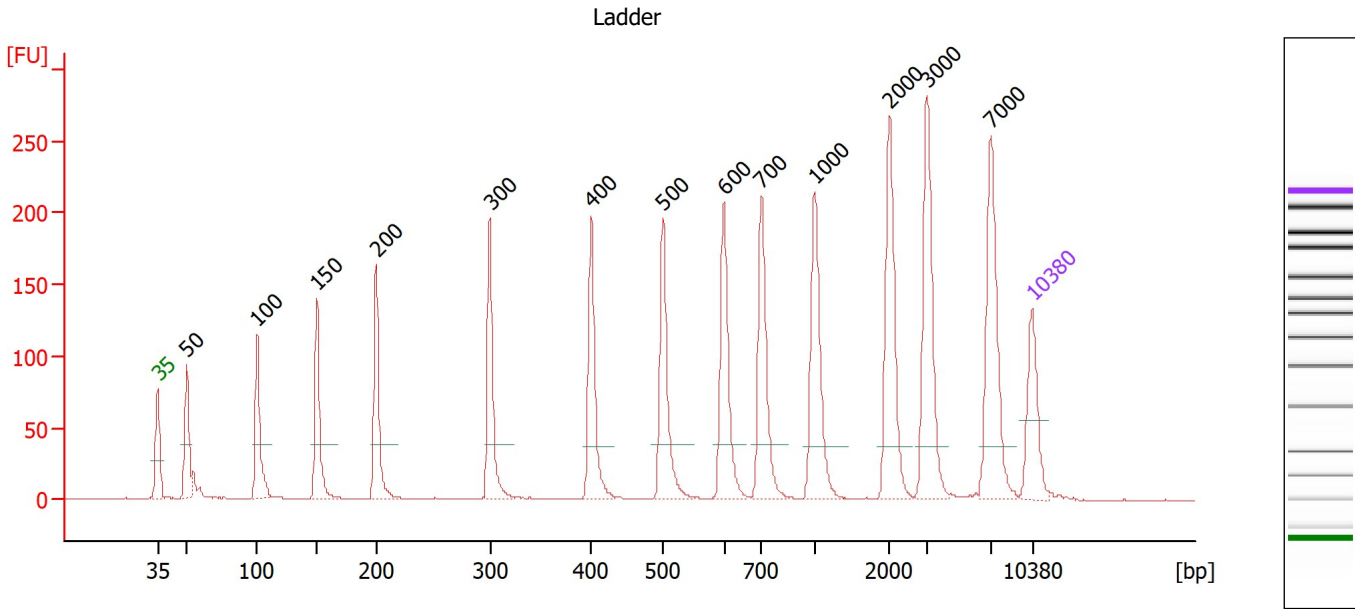
### Ladder

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:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
 Modified: 2/3/2023 12:04:50 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

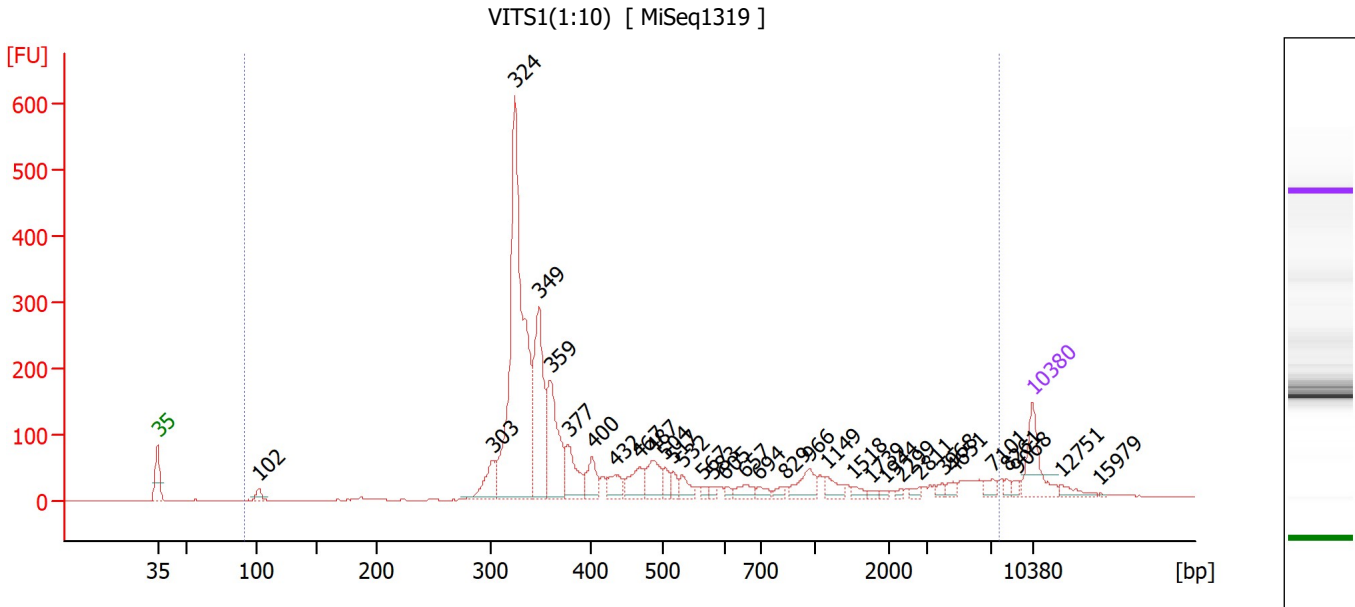
**Peak table for Ladder**

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: C:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
 Modified: 2/3/2023 12:04:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : VITS1(1:10)**

Number of peaks found: 33                      Corr. Area 1: 2,847.1  
 Noise: 0.4

**Peak table for sample 4 : VITS1(1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	102	18.70	278.4	
3	303	71.29	356.7	
4	324	830.49	3,878.2	
5	349	275.55	1,197.9	
6	359	196.68	829.2	
7	377	86.68	348.5	
8	400	56.01	211.9	
9	432	42.21	148.0	
10	467	57.56	186.6	
11	487	67.01	208.4	
12	504	24.42	73.4	
13	517	20.23	59.3	
14	532	26.87	76.5	
15	567	8.86	23.7	
16	583	8.47	22.0	
17	605	8.49	21.3	
18	657	24.40	56.3	
19	694	14.67	32.0	
20	829	11.83	21.6	
21	966	47.10	73.8	
22	1,149	24.36	32.1	
23	1,518	11.13	11.1	
24	1,739	5.15	4.5	
25	1,944	4.89	3.8	
26	2,299	4.48	3.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
 Modified: 2/3/2023 12:04:50 PM

**Electropherogram Summary Continued ...**

**... Peak table for sample 4 : VITS1(1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,811	6.85	3.7	
28	3,968	8.94	3.4	
29	4,651	10.81	3.5	
30	7,101	15.48	3.3	
31	8,261	8.16	1.5	
32	9,068	7.58	1.3	
33	10,380	75.00	10.9	Upper Marker
34	12,751	0.00	0.0	
35	15,979	0.00	0.0	

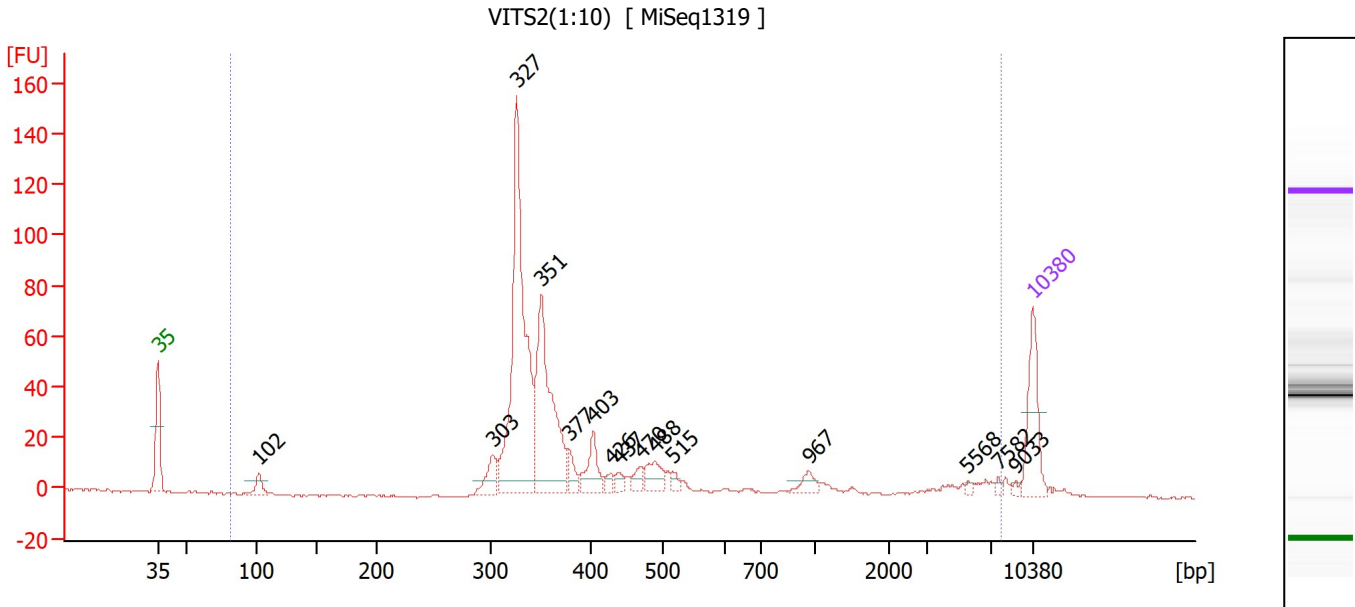
**Region table for sample 4 : VITS1(1:10)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
92	7,733	2,847.1	96	825	100.0	2,120.90	8,371.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
 Modified: 2/3/2023 12:04:50 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : VITS2(1:10)**

Number of peaks found: 15                      Corr. Area 1: 609.4  
 Noise: 0.4

**Peak table for sample 5 : VITS2(1:10)**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	102	24.82	368.7	
3	303	41.41	207.4	
4	327	473.48	2,196.3	
5	351	278.22	1,201.8	
6	377	24.80	99.6	
7	403	51.46	193.5	
8	426	11.19	39.8	
9	437	12.87	44.6	
10	470	16.51	53.2	
11	488	37.07	115.0	
12	515	8.88	26.1	
13	967	18.42	28.8	
14	5,568	4.00	1.1	
15	7,582	4.64	0.9	
16	9,033	3.42	0.6	
17	10,380	75.00	10.9	Upper Marker

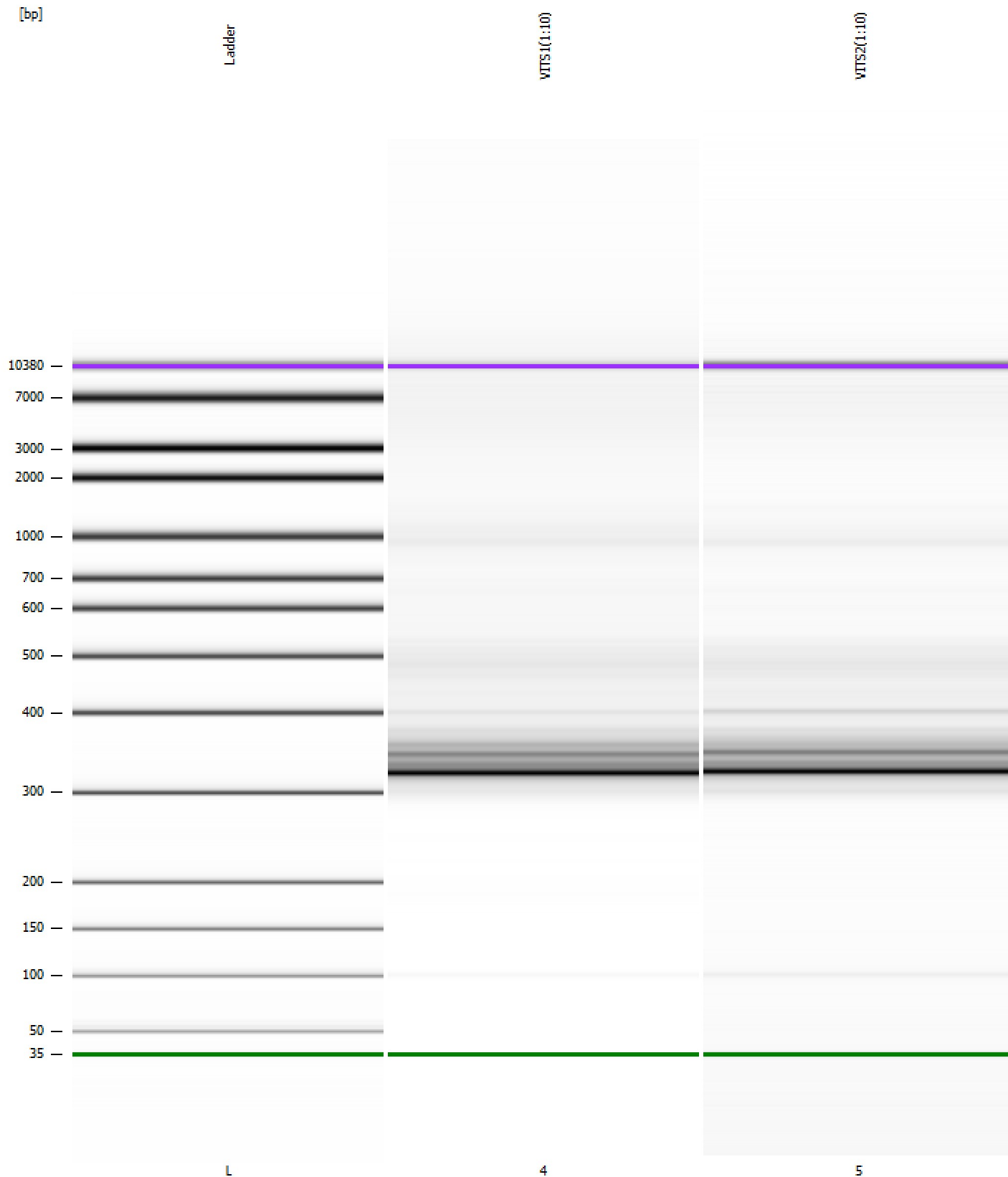
**Region table for sample 5 : VITS2(1:10)**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
82	7,862	609.4	97	737	100.0	1,099.57	4,555.6	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
Modified: 2/3/2023 12:04:50 PM

**Gel Image**





Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\Users\sbsuser\Desktop\2023-02-03\MiSeq1319\_02-03-2023.xad

Created: 2/3/2023 10:59:02 AM  
 Modified: 2/3/2023 12:04:50 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		2/3/2023 11:40:21 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-02-03\Bioanalyzer1_High Sensitivity DNA Assay_2023-02-03_001.xad)		Instrument	Run		2/3/2023 10:59:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		2/3/2023 10:59:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		2/3/2023 10:59:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		2/3/2023 10:59:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		2/3/2023 10:59:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		2/3/2023 10:59:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		2/3/2023 10:59:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB