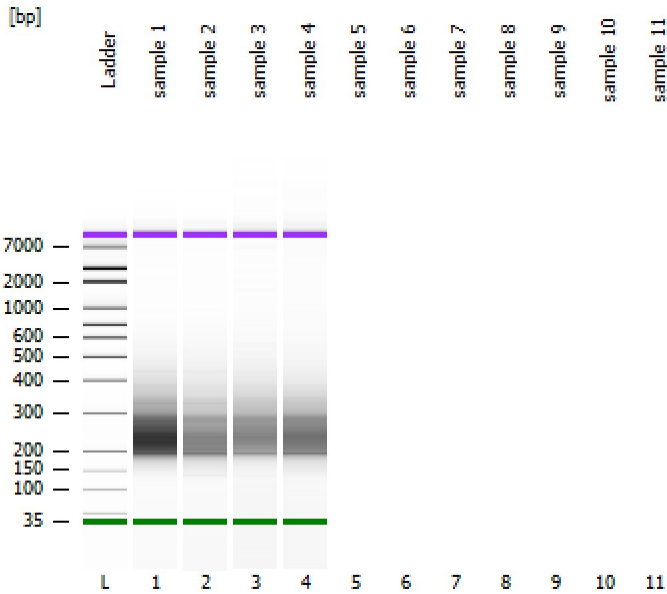


Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
Modified: 2/14/2020 11:39:09 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 #:

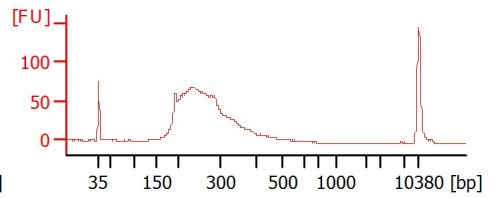
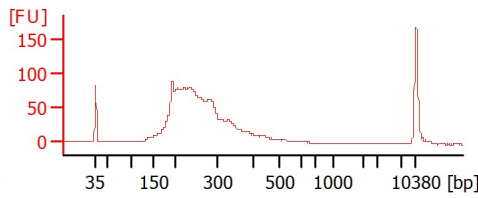
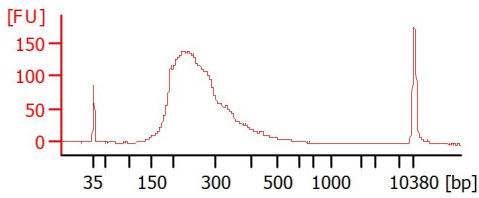
Reagent Kit Lot #:

Chip Comments:

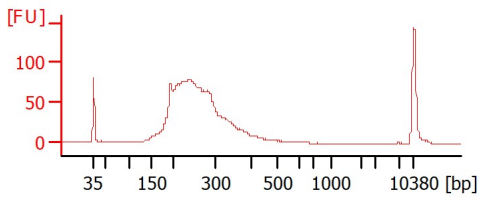
sample 1

sample 2

sample 3



sample 4



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
 Modified: 2/14/2020 11:39:09 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>				
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<input type="checkbox"/>				
sample 9		<input type="checkbox"/>				
sample 10		<input type="checkbox"/>				
sample 11		<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\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
 Modified: 2/14/2020 11:39:09 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

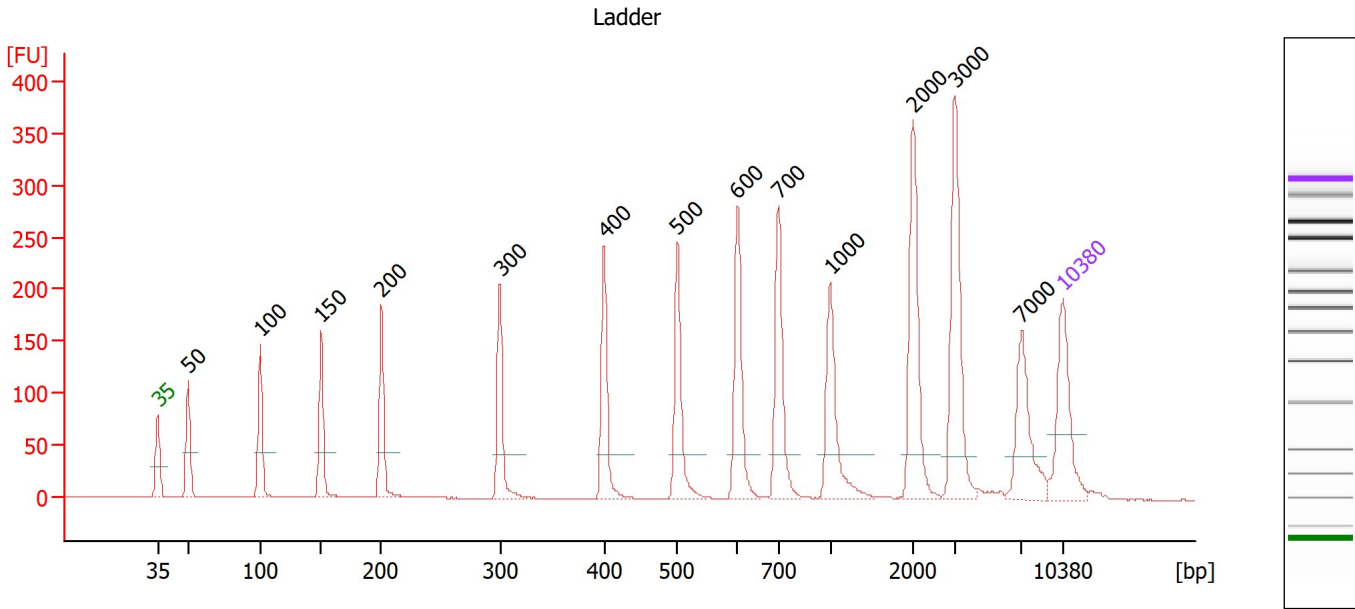
**Ladder**

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\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
 Modified: 2/14/2020 11:39:09 AM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

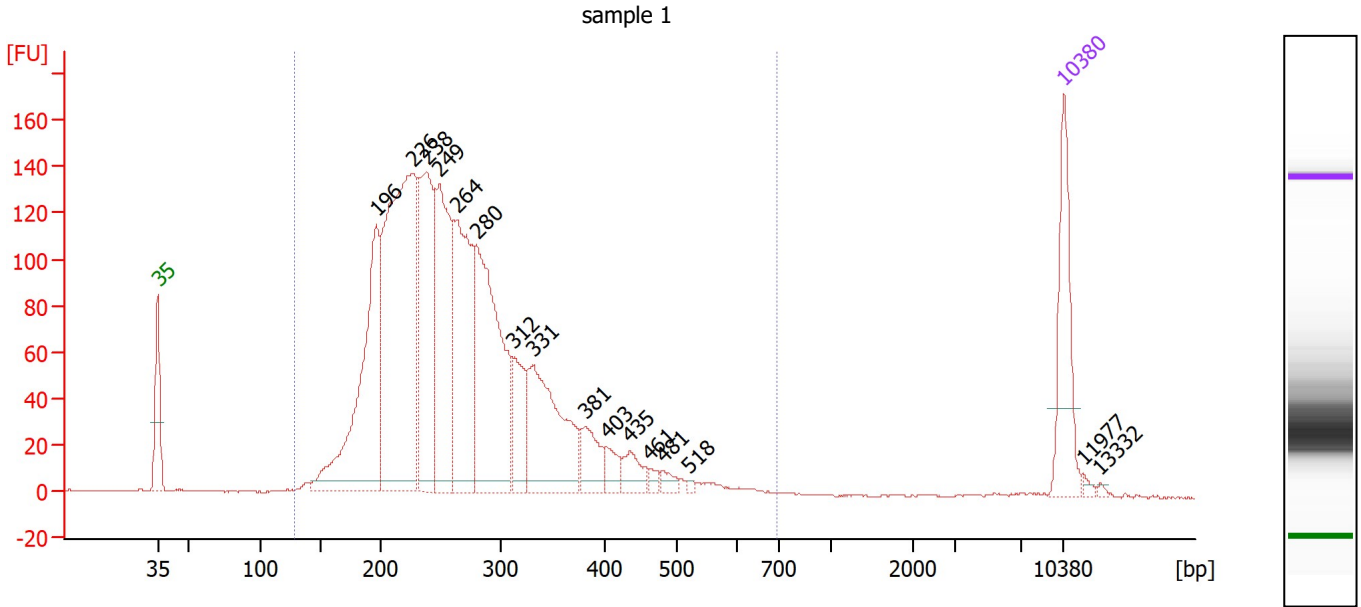
**Peak table for Ladder**

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: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
 Modified: 2/14/2020 11:39:09 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 16                      Corr. Area 1: 2,735.5  
 Noise: 0.2

**Peak table for sample 1 : sample 1**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	196	304.30	2,357.1	
3	226	500.15	3,347.4	
4	238	235.08	1,496.4	
5	249	211.95	1,291.5	
6	264	220.38	1,265.7	
7	280	291.82	1,579.1	
8	312	68.80	333.8	
9	331	172.28	788.0	
10	381	41.74	165.9	
11	403	20.60	77.5	
12	435	25.66	89.4	
13	461	7.39	24.3	
14	481	9.43	29.7	
15	518	3.06	8.9	
16	10,380	75.00	10.9	Upper Marker
17	11,977	0.00	0.0	
18	13,332	0.00	0.0	

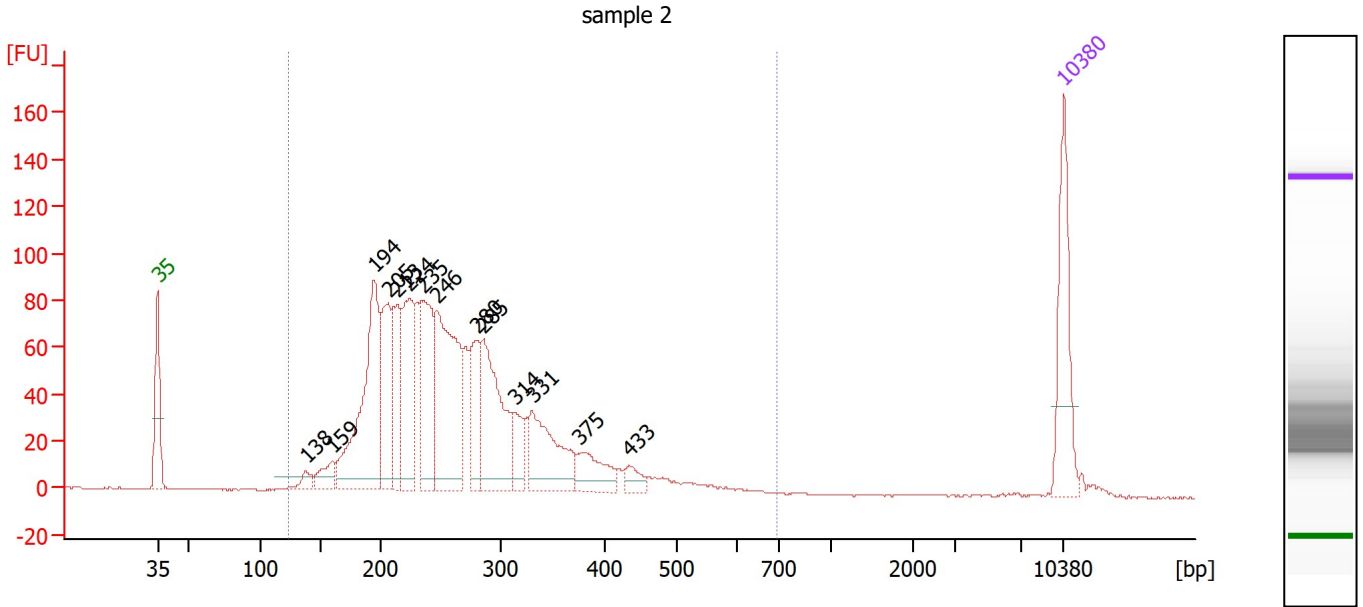
**Region table for sample 1 : sample 1**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
128	695	2,735.5	99	271	27.7	2,205.39	13,407.0	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
 Modified: 2/14/2020 11:39:09 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 14                      Corr. Area 1: 1,684.3  
 Noise: 0.2

**Peak table for sample 2 : sample 2**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	138	14.53	160.0	
3	159	27.53	262.5	
4	194	231.97	1,815.9	
5	205	117.08	864.6	
6	213	86.04	611.1	
7	224	125.87	853.2	
8	235	131.71	848.3	
9	246	215.87	1,327.1	
10	280	70.24	380.6	
11	285	149.76	797.0	
12	314	33.20	160.0	
13	331	102.73	470.7	
14	375	44.86	181.1	
15	433	15.37	53.8	
16	10,380	75.00	10.9	Upper Marker

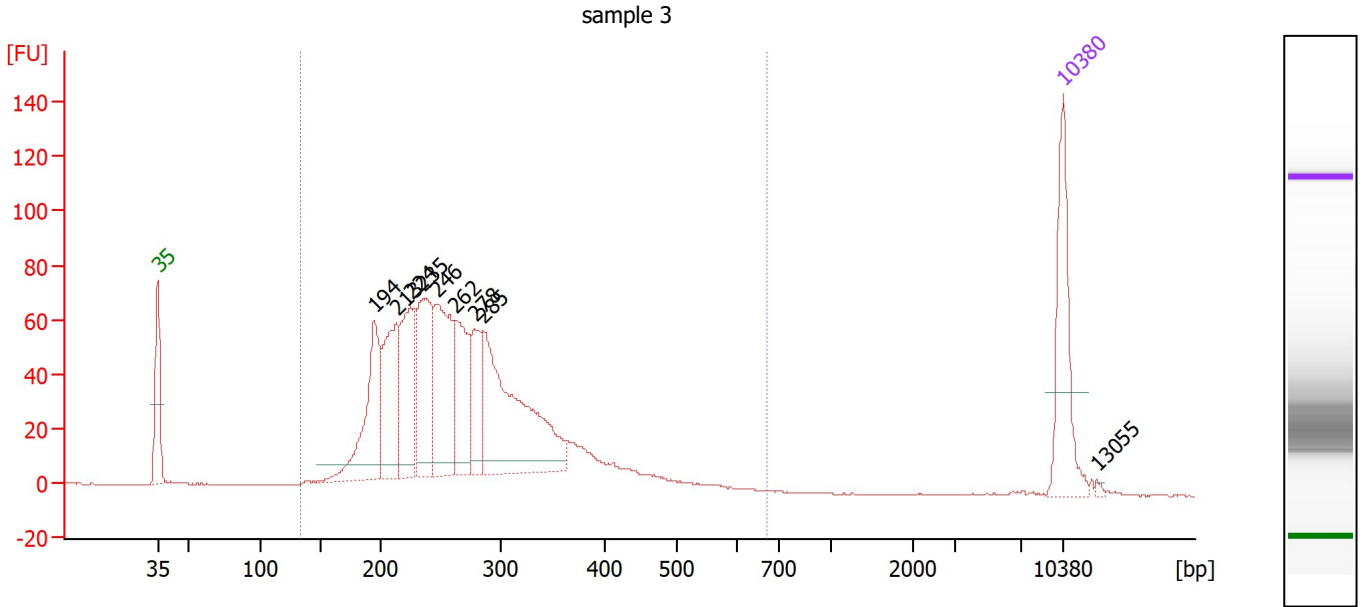
**Region table for sample 2 : sample 2**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
123	696	1,684.3	99	267	28.9	1,514.68	9,426.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
 Modified: 2/14/2020 11:39:09 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 9                      Corr. Area 1: 1,366.0  
 Noise: 0.2

**Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	194	136.35	1,066.0	
3	213	114.76	816.9	
4	224	116.91	789.9	
5	235	134.76	868.4	
6	246	140.50	865.4	
7	262	103.54	599.8	
8	278	61.71	336.2	
9	285	234.15	1,243.4	
10	10,380	75.00	10.9	Upper Marker
11	13,055	0.00	0.0	

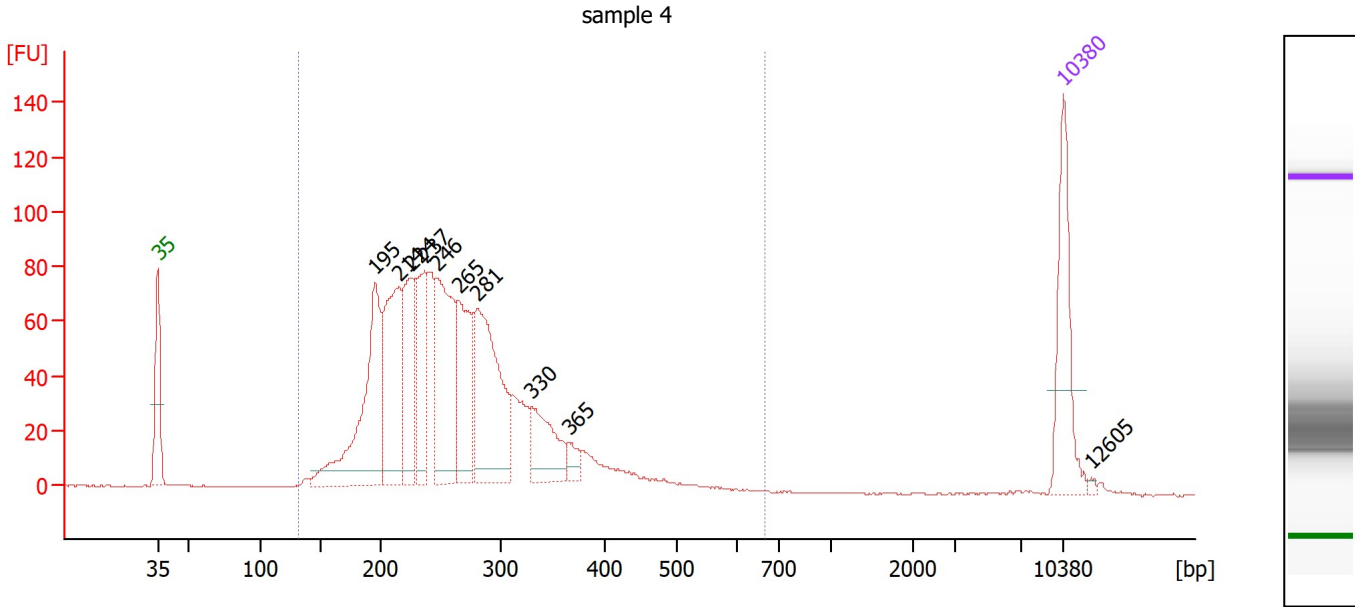
**Region table for sample 3 : sample 3**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
132	671	1,366.0	98	274	26.5	1,257.04	7,501.9	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
 Modified: 2/14/2020 11:39:09 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 10                      Corr. Area 1: 1,539.6  
 Noise: 0.1

**Peak table for sample 4 : sample 4**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	195	216.05	1,679.4	
3	214	164.98	1,168.8	
4	224	122.72	828.4	
5	237	94.98	608.2	
6	246	165.86	1,021.1	
7	265	113.05	647.3	
8	281	193.34	1,042.6	
9	330	69.86	320.7	
10	365	14.76	61.2	
11	10,380	75.00	10.9	Upper Marker
12	12,605	0.00	0.0	

**Region table for sample 4 : sample 4**

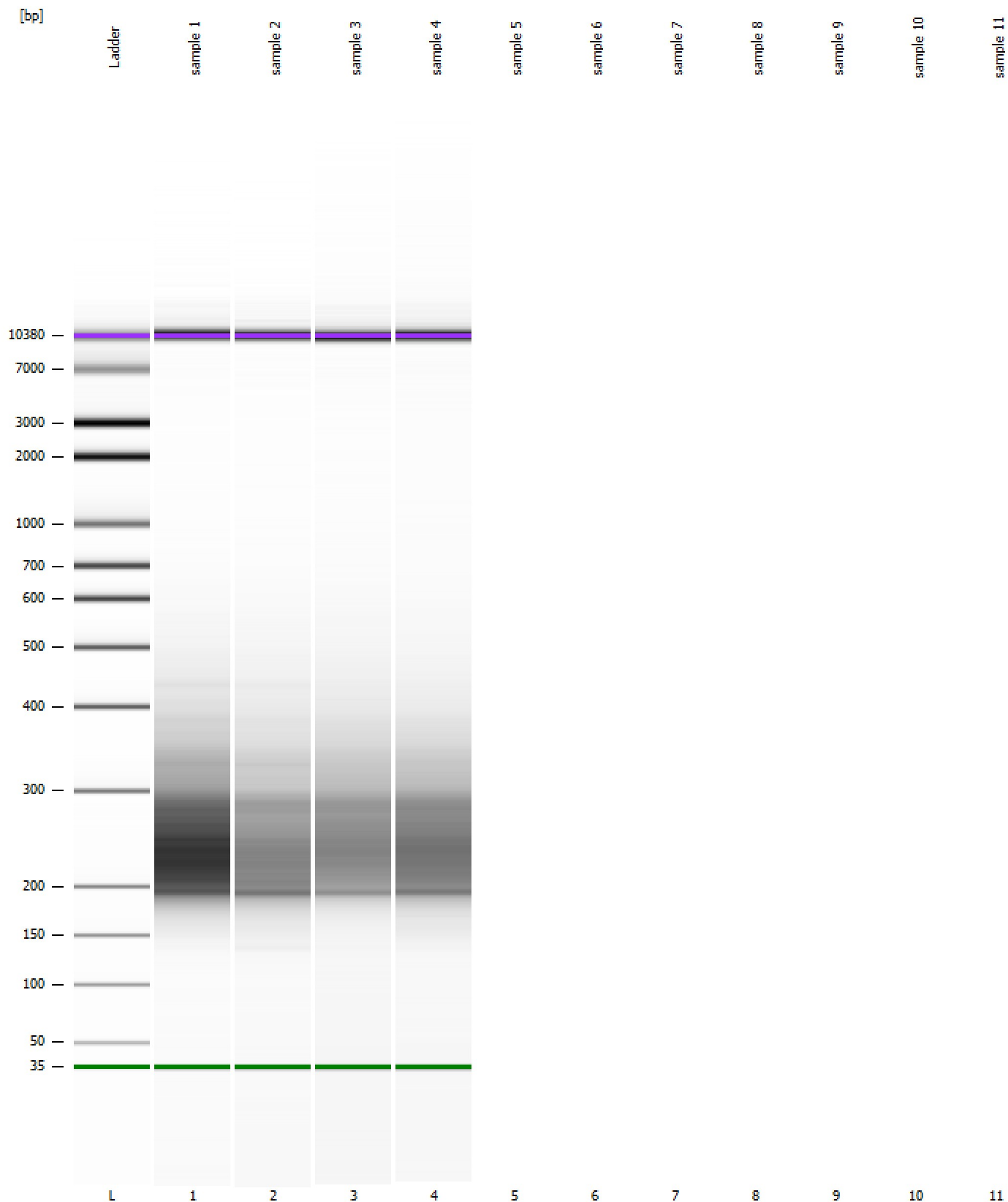
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
132	669	1,539.6	98	266	25.7	1,420.74	8,716.8	Blue



Assay Class: High Sensitivity DNA Assay  
Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
Modified: 2/14/2020 11:39:09 AM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: Z:\...\Bioanalyzer1\_High Sensitivity DNA Assay\_2020-02-14\_001.xad

Created: 2/14/2020 11:15:02 AM  
 Modified: 2/14/2020 11:39:09 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 5)		Instrument	Run		2/14/2020 11:36:21 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-02-14\Bioanalyze r1_High Sensitivity DNA Assay_2020-02-14_001.xad)		Instrument	Run		2/14/2020 11:15:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		2/14/2020 11:15:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		2/14/2020 11:15:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		2/14/2020 11:15:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		2/14/2020 11:15:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		2/14/2020 11:15:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		2/14/2020 11:15:08 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB