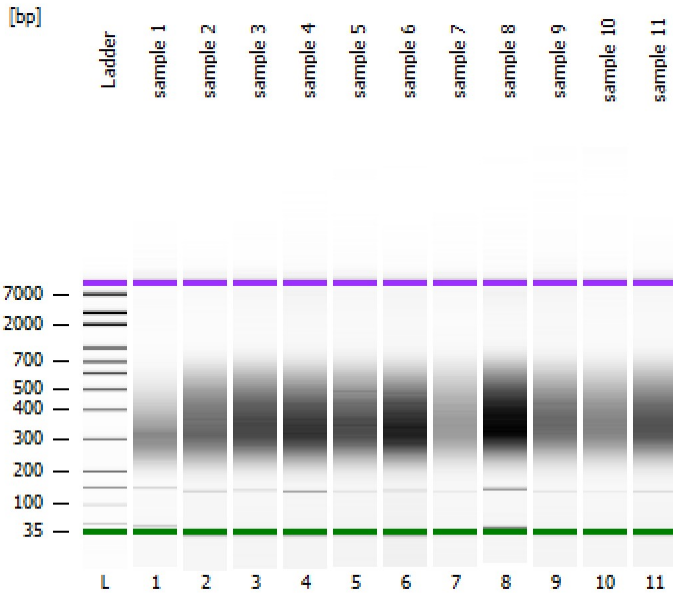


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
Modified: 6/9/2020 5:00:32 PM

Electrophoresis File Run Summary



Instrument Information:

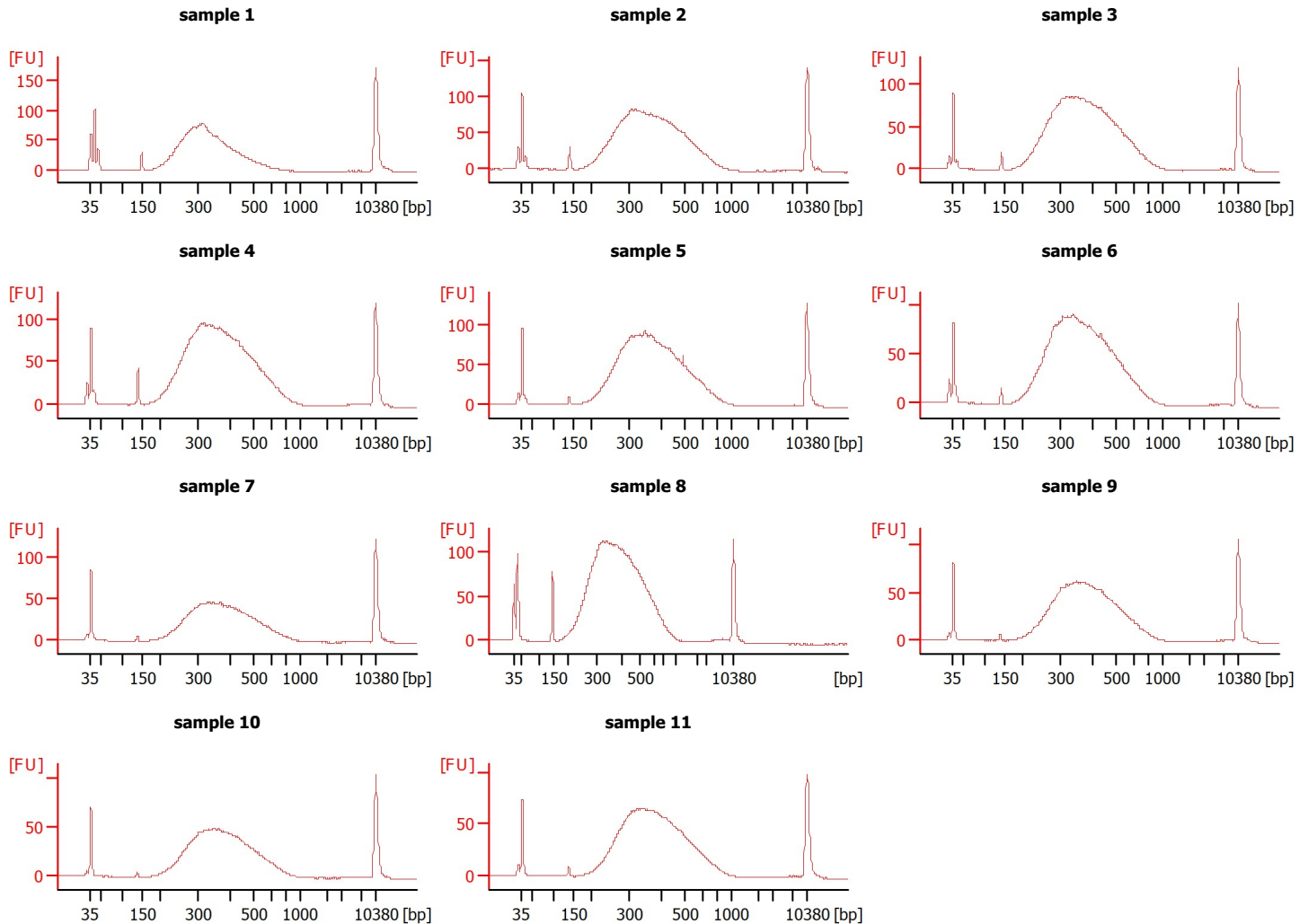
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

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_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 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

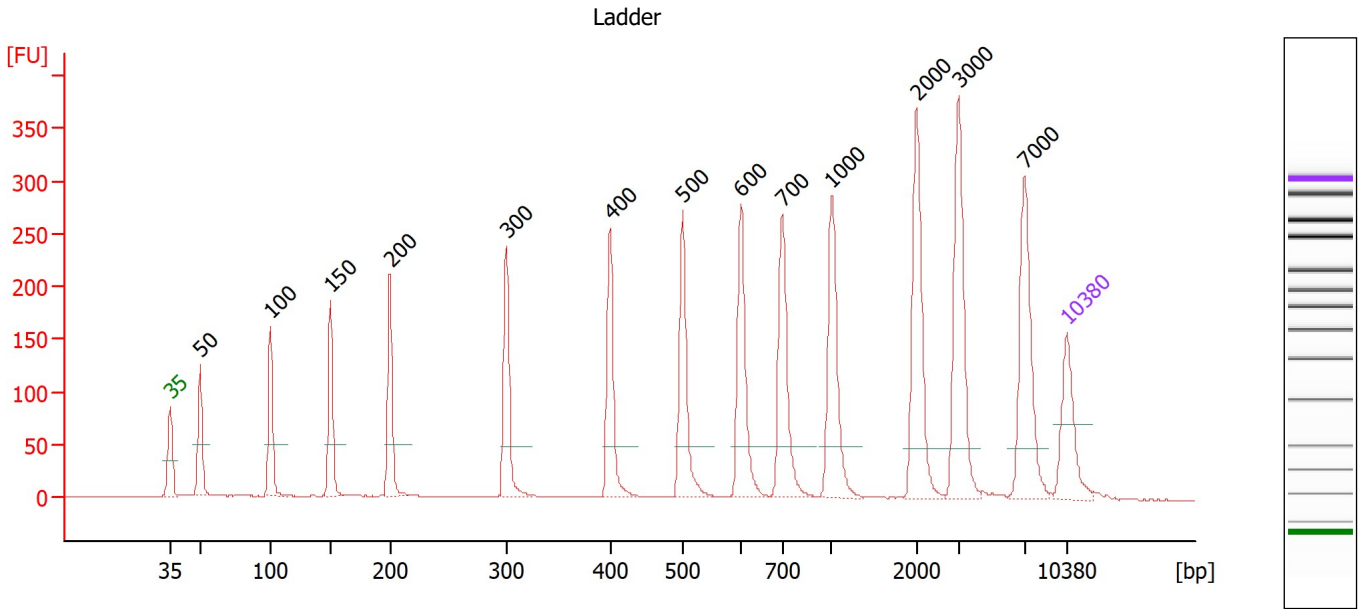
Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

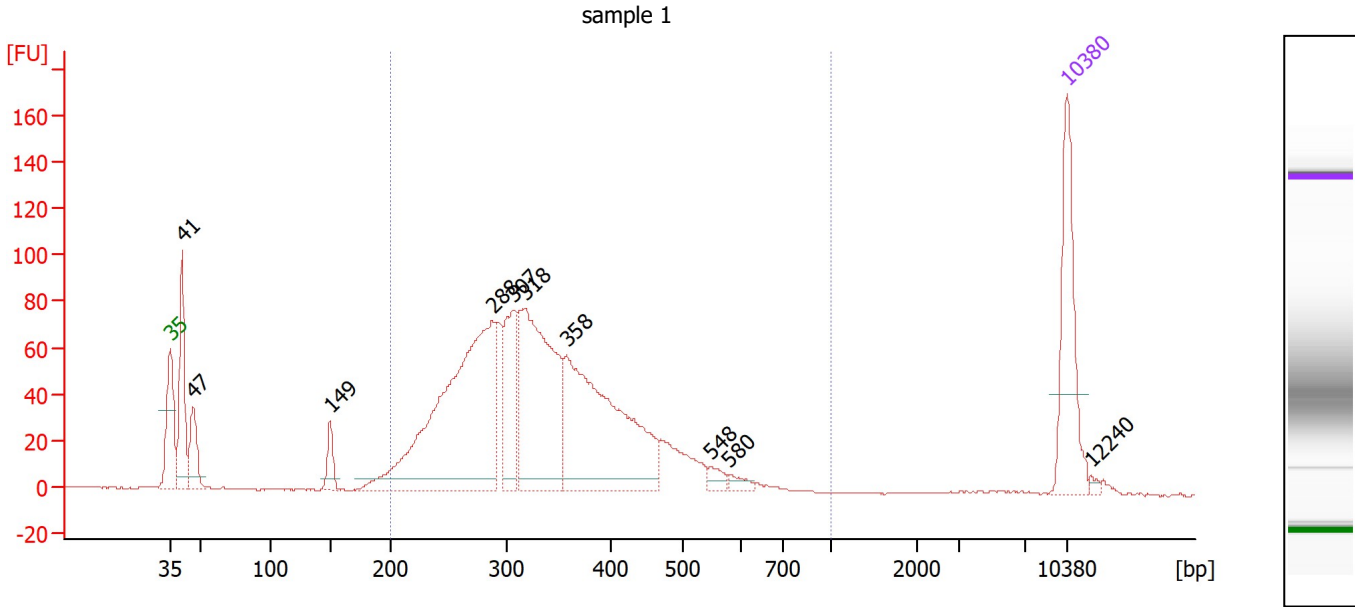
Peak table for Ladder

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_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 10 Corr. Area 1: 1,611.0
 Noise: 0.3

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	41	105.69	3,912.0	
3	47	47.56	1,547.8	
4	149	24.12	244.6	
5	288	367.98	1,935.6	
6	307	84.01	414.7	
7	318	231.14	1,100.6	
8	358	257.36	1,089.0	
9	548	10.05	27.8	
10	580	7.84	20.5	
11	10,380	75.00	10.9	Upper Marker
12	12,240	0.00	0.0	

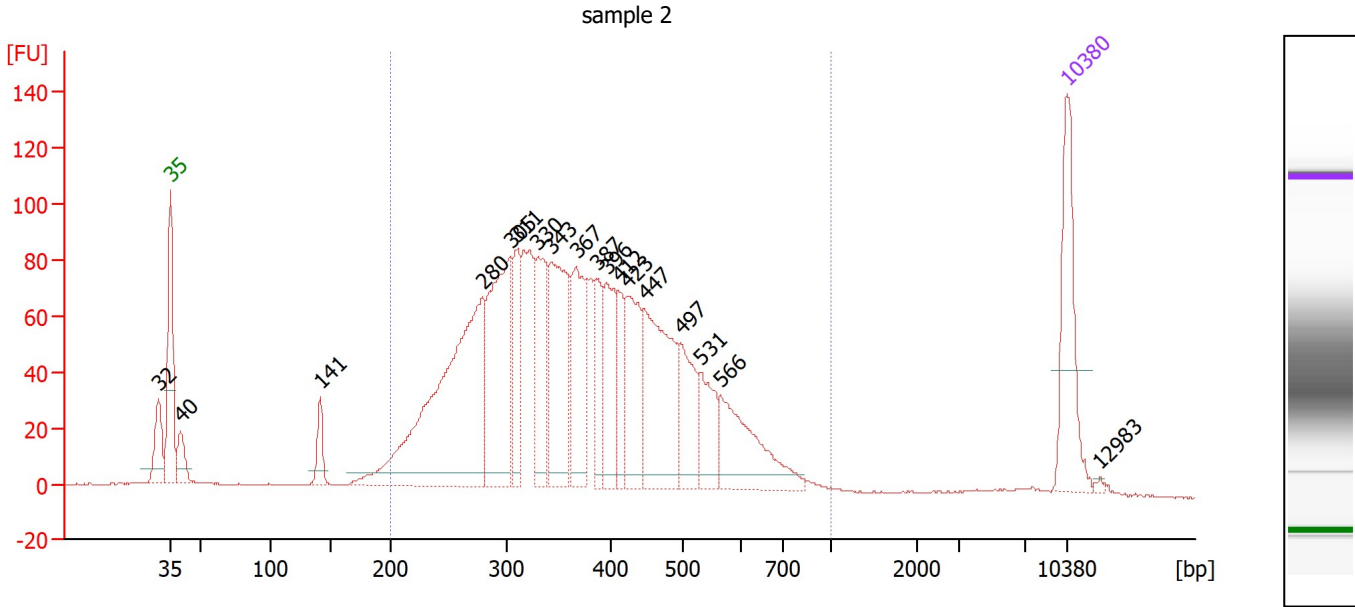
Region table for sample 1 : sample 1

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,611.0	86	343	26.2	1,057.57	5,051.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 18 Corr. Area 1: 2,237.2
 Noise: 0.2

Peak table for sample 2 : sample 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	31.13	1,176.1	
4	141	29.67	318.1	
5	280	377.00	2,043.2	
6	305	185.08	920.5	
7	311	69.66	339.7	
8	330	92.43	424.2	
9	343	146.78	648.5	
10	367	95.18	392.7	
11	387	51.39	201.3	
12	396	76.66	292.9	
13	412	43.26	159.3	
14	423	82.58	295.9	
15	447	152.82	517.6	
16	497	65.14	198.5	
17	531	51.17	145.9	
18	566	93.37	249.9	
19	10,380	75.00	10.9	Upper Marker
20	12,983	0.00	0.0	

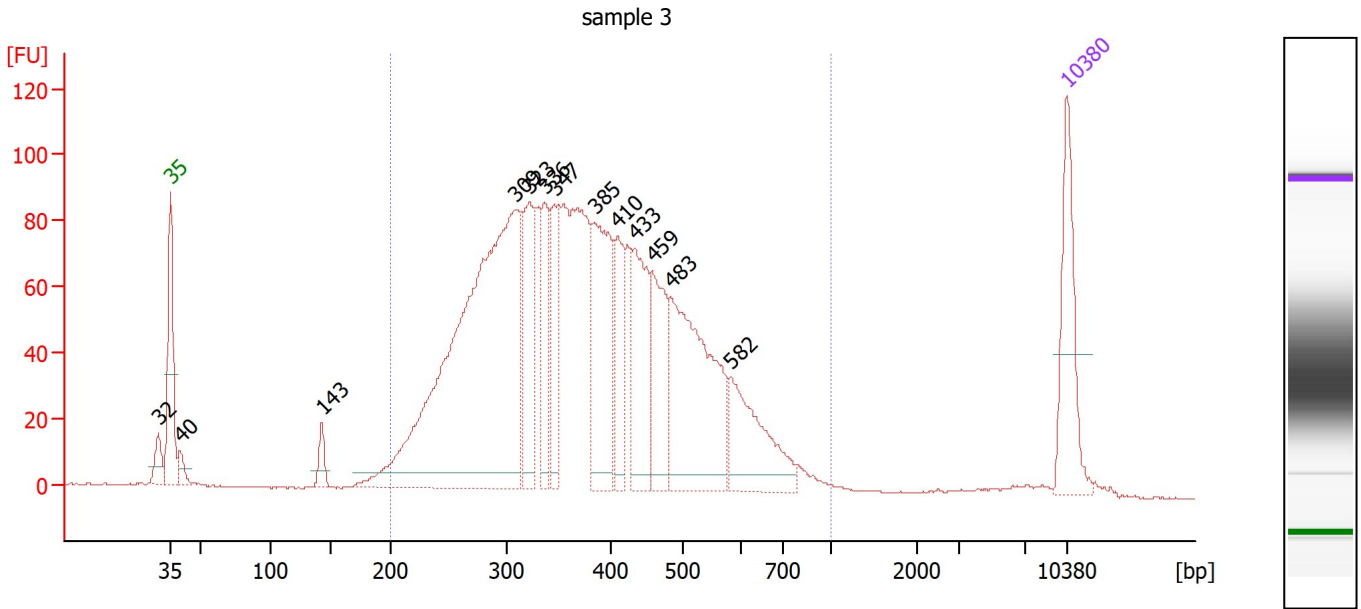
Region table for sample 2 : sample 2

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,237.2	93	384	29.2	1,785.64	7,852.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 13 Corr. Area 1: 2,327.5
 Noise: 0.2

Peak table for sample 3 : sample 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	19.08	724.8	
4	143	21.87	232.3	
5	309	696.64	3,421.4	
6	323	119.75	562.1	
7	336	75.52	340.1	
8	347	79.42	346.8	
9	385	162.17	638.6	
10	410	65.72	242.8	
11	433	115.25	403.0	
12	459	97.80	322.7	
13	483	233.95	733.6	
14	582	99.67	259.4	
15	10,380	75.00	10.9	Upper Marker

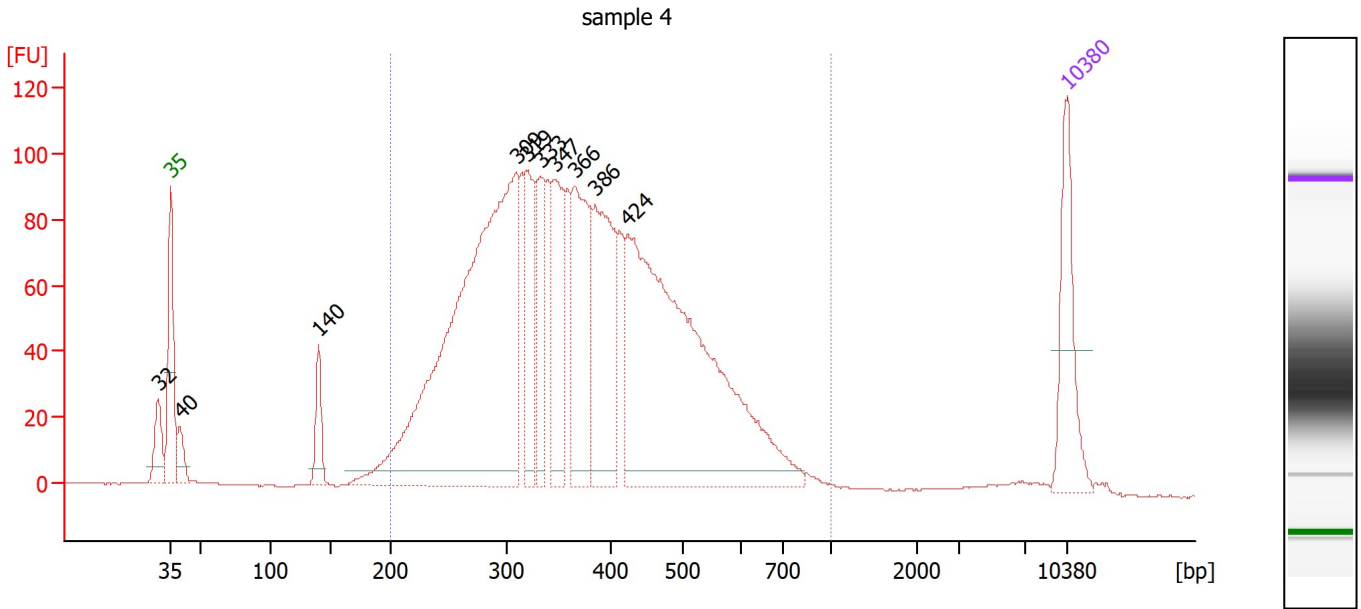
Region table for sample 3 : sample 3

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,327.5	96	392	29.5	2,196.22	9,486.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 10 Corr. Area 1: 2,488.4
 Noise: 0.2

Peak table for sample 4 : sample 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	30.20	1,154.6	
4	140	47.09	510.4	
5	309	755.24	3,698.3	
6	319	98.55	467.3	
7	333	81.89	372.9	
8	347	119.89	524.1	
9	366	170.10	703.9	
10	386	190.53	748.6	
11	424	604.29	2,160.8	
12	10,380	75.00	10.9	Upper Marker

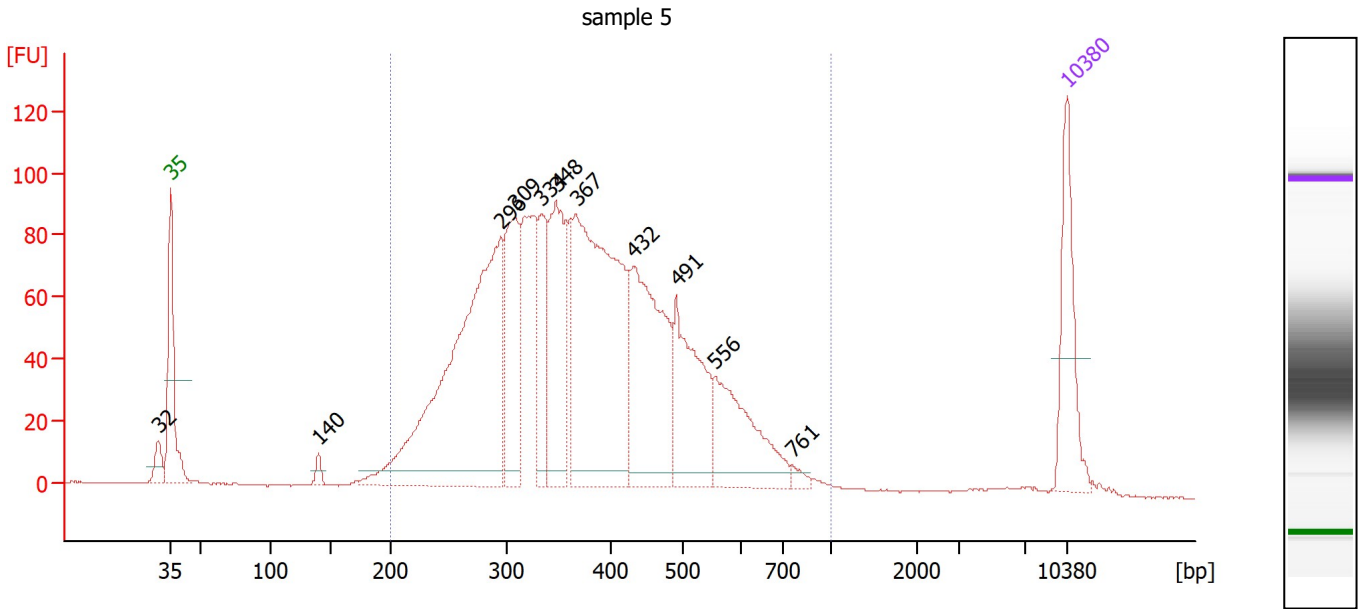
Region table for sample 4 : sample 4

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,488.4	94	385	29.4	2,305.21	10,118.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 11 Corr. Area 1: 2,263.7
 Noise: 0.2

Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	140	10.83	117.1	
4	296	522.73	2,679.9	
5	309	144.89	709.9	
6	334	87.78	398.5	
7	348	160.43	698.6	
8	367	423.67	1,747.5	
9	432	223.75	785.0	
10	491	147.68	455.5	
11	556	120.82	329.2	
12	761	7.00	13.9	
13	10,380	75.00	10.9	Upper Marker

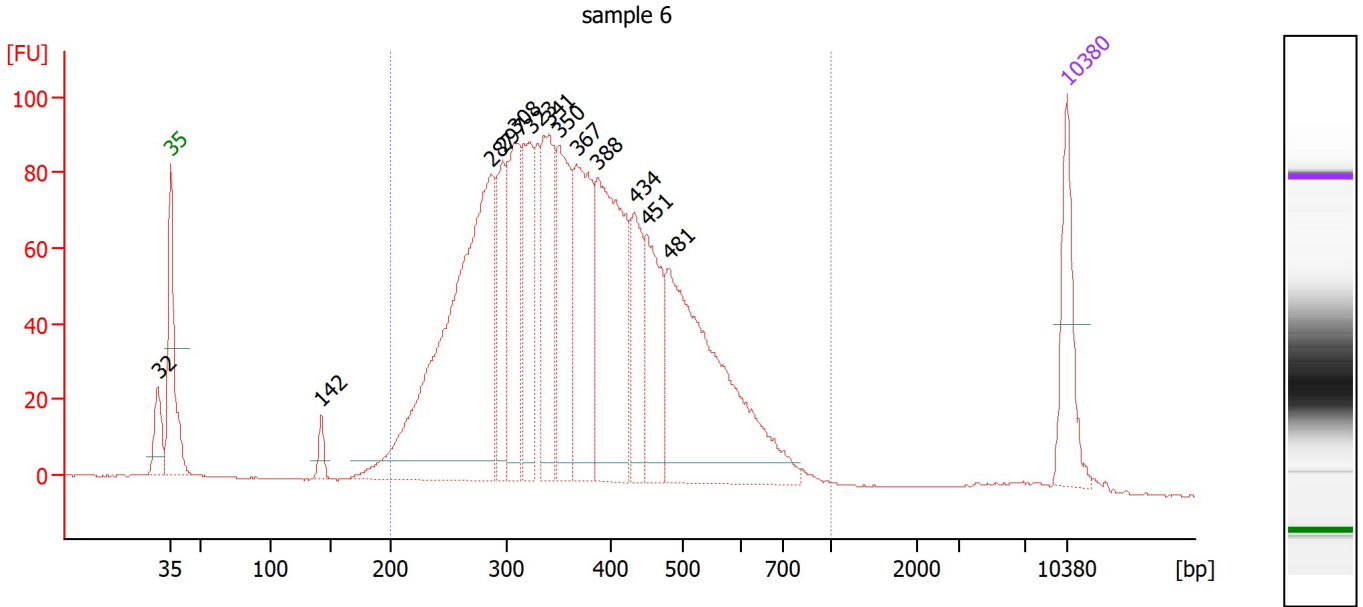
Region table for sample 5 : sample 5

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	2,263.7	97	387	29.0	2,052.68	8,918.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 13 Corr. Area 1: 2,273.1
 Noise: 0.2

Peak table for sample 6 : sample 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	142	23.37	249.3	
4	287	645.81	3,406.8	
5	297	128.32	654.0	
6	308	157.37	773.7	
7	323	137.94	646.4	
8	341	181.12	804.5	
9	350	175.53	759.1	
10	367	208.48	859.6	
11	388	300.25	1,172.8	
12	434	102.07	356.6	
13	451	133.27	448.0	
14	481	397.75	1,252.8	
15	10,380	75.00	10.9	Upper Marker

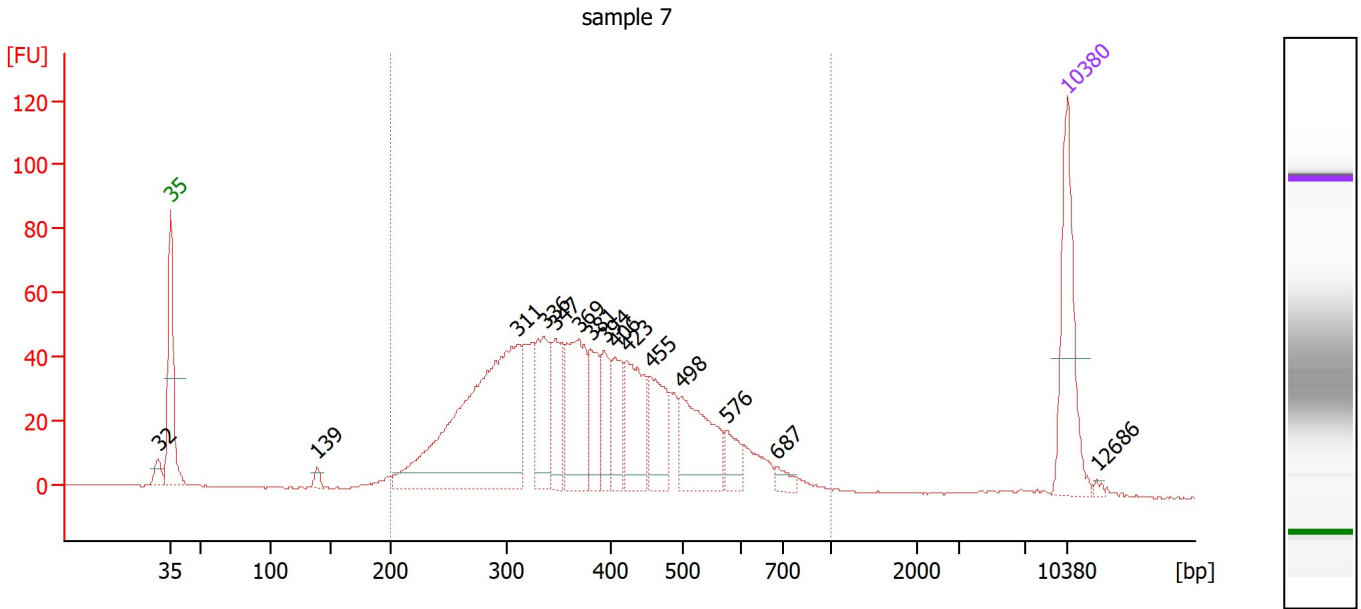
Region table for sample 6 : sample 6

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	2,273.1	96	381	28.3	2,708.92	11,915.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 15 Corr. Area 1: 1,200.7
 Noise: 0.2

Peak table for sample 7 : sample 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	139	6.83	74.4	
4	311	333.72	1,626.2	
5	336	70.69	318.5	
6	347	52.81	230.6	
7	369	102.00	418.8	
8	381	42.82	170.3	
9	394	38.27	147.1	
10	406	43.54	162.4	
11	423	73.55	263.2	
12	455	59.40	197.8	
13	498	84.81	258.0	
14	576	22.37	58.8	
15	687	9.42	20.8	
16	10,380	75.00	10.9	Upper Marker
17	12,686	0.00	0.0	

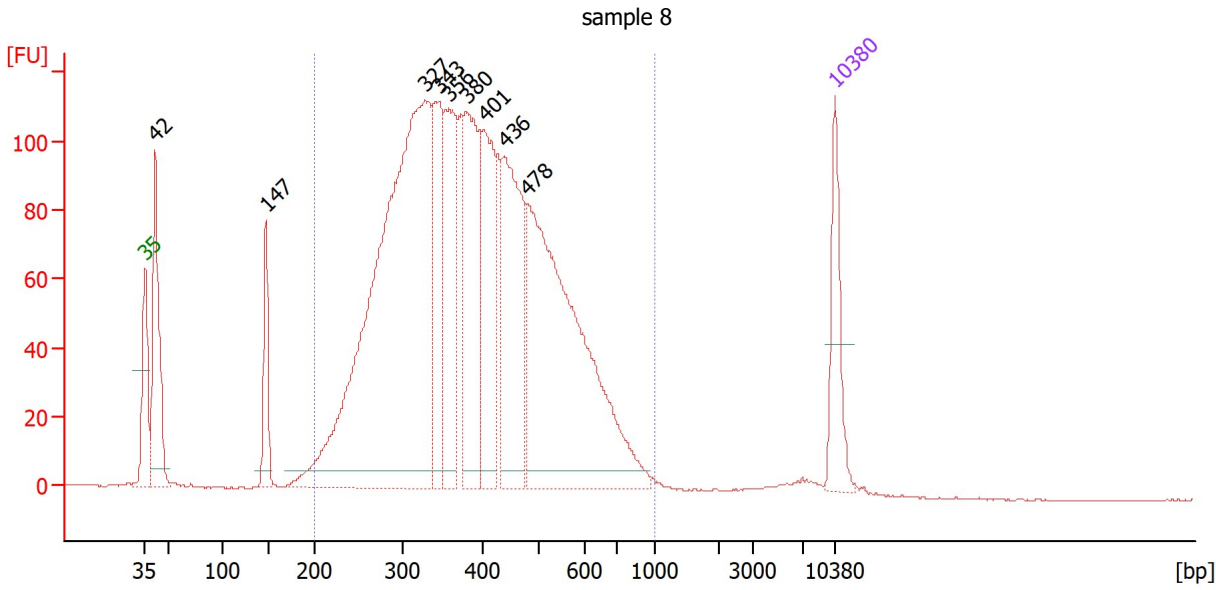
Region table for sample 7 : sample 7

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	1,200.7	96	393	29.2	1,094.89	4,693.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 9 Corr. Area 1: 2,978.4
 Noise: 0.2

Peak table for sample 8 : sample 8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	42	244.93	8,912.4	
3	147	95.81	985.4	
4	327	1,112.64	5,148.0	
5	343	176.67	779.4	
6	356	218.55	930.0	
7	380	257.68	1,027.3	
8	401	205.23	775.5	
9	436	282.16	979.8	
10	478	630.81	1,997.9	
11	10,380	75.00	10.9	Upper Marker

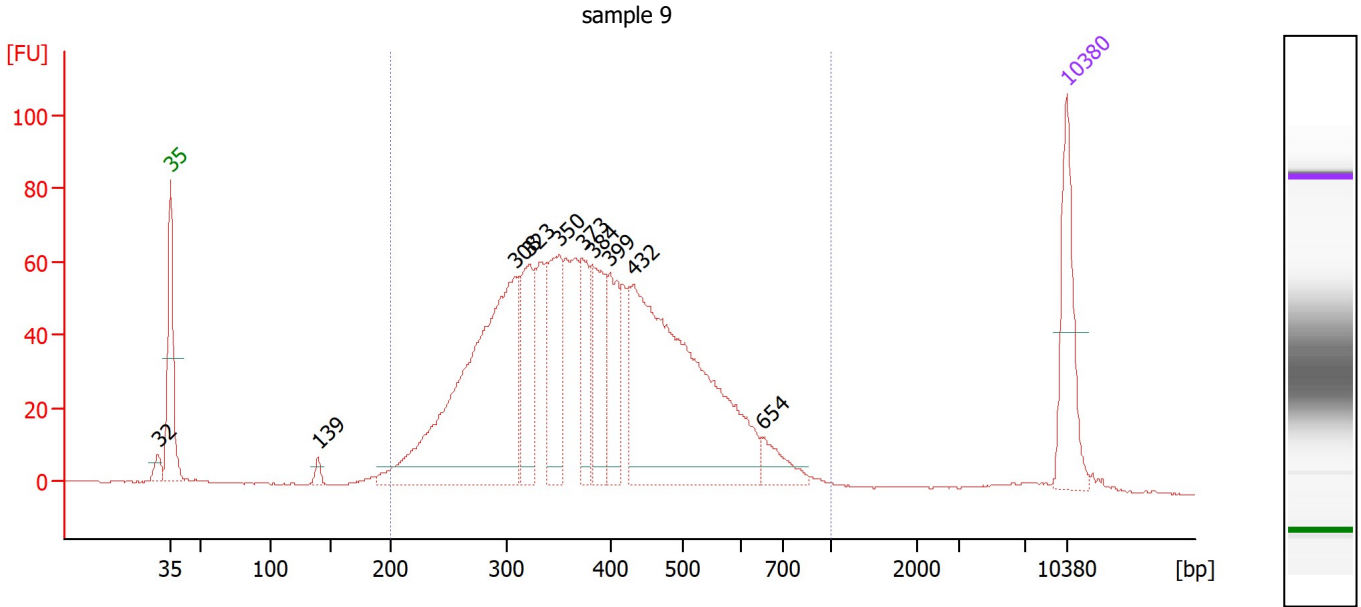
Region table for sample 8 : sample 8

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	2,978.4	91	404	29.6	3,117.01	13,067.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 10 Corr. Area 1: 1,549.2
 Noise: 0.2

Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	139	9.13	99.5	
4	308	462.50	2,273.3	
5	323	107.39	504.5	
6	350	120.53	521.1	
7	373	75.32	306.0	
8	384	83.95	331.4	
9	399	77.47	293.8	
10	432	448.53	1,571.3	
11	654	28.52	66.0	
12	10,380	75.00	10.9	Upper Marker

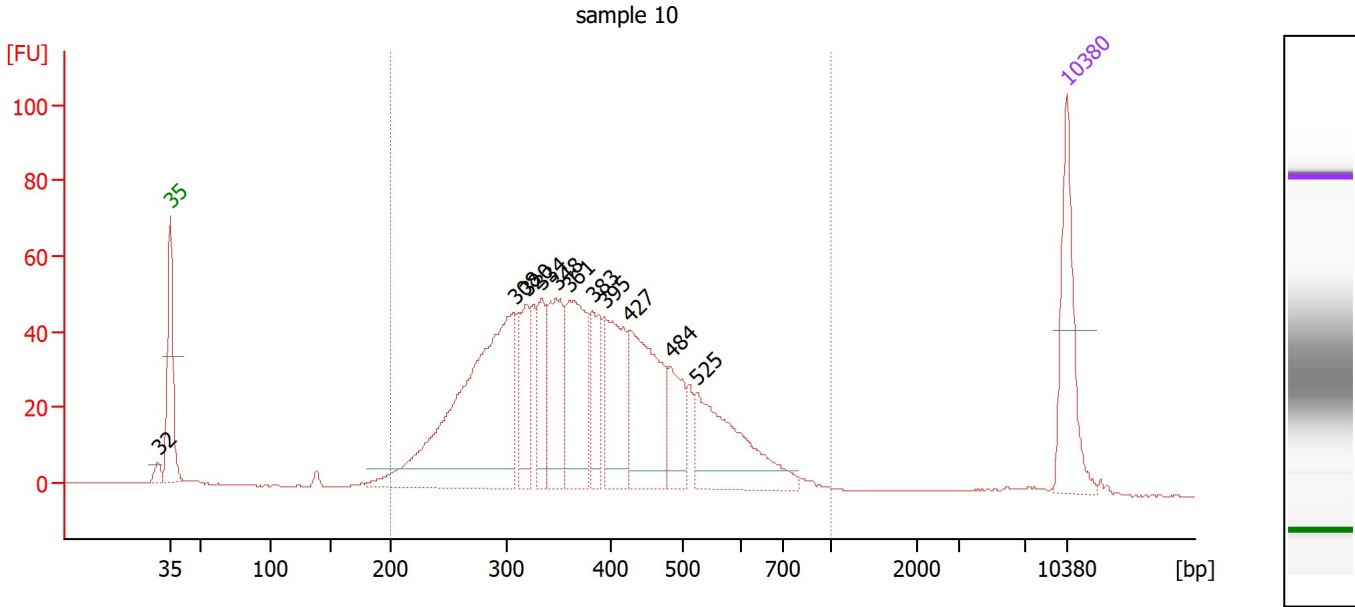
Region table for sample 9 : sample 9

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	1,549.2	97	397	28.5	1,705.59	7,217.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 11 Corr. Area 1: 1,186.4
 Noise: 0.2

Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	308	377.70	1,860.0	
4	320	67.12	317.9	
5	334	58.50	265.1	
6	348	105.84	460.9	
7	361	128.24	538.4	
8	383	56.47	223.5	
9	395	109.74	420.9	
10	427	144.43	512.3	
11	484	56.19	175.9	
12	525	130.97	377.8	
13	10,380	75.00	10.9	Upper Marker

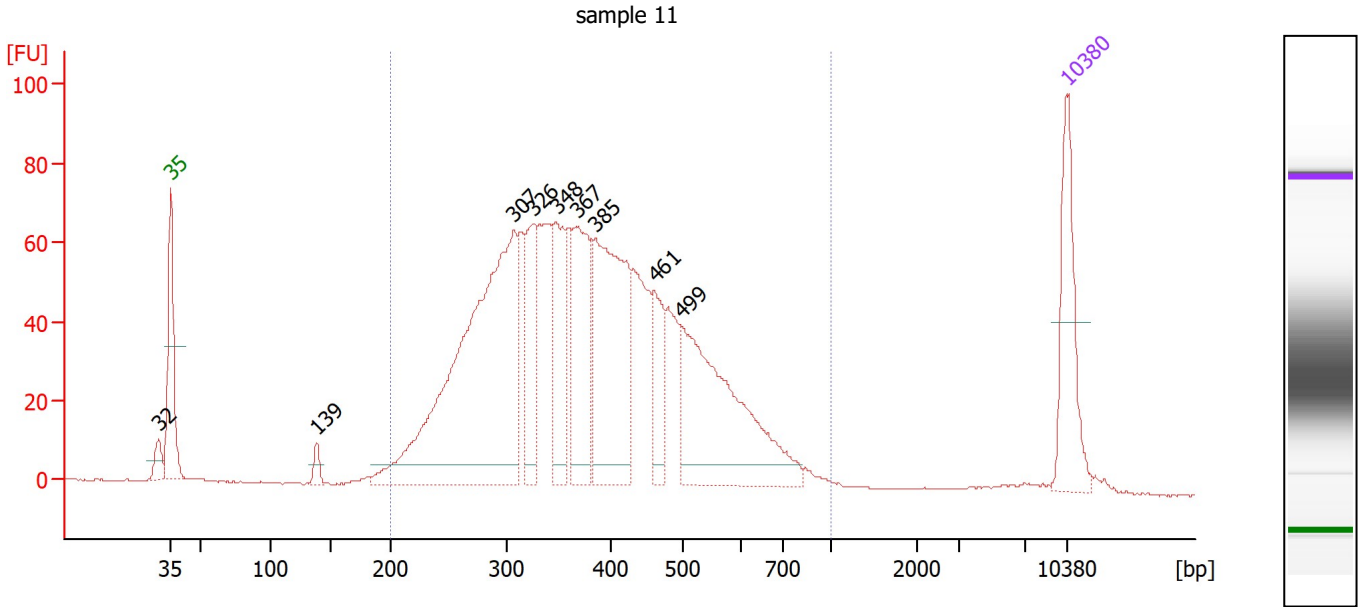
Region table for sample 10 : sample 10

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	1,186.4	98	389	27.4	1,323.83	5,683.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 9 Corr. Area 1: 1,657.0
 Noise: 0.2

Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	139	12.41	135.7	
4	307	505.60	2,492.9	
5	326	86.21	400.8	
6	348	102.96	448.5	
7	367	134.99	557.1	
8	385	233.13	917.6	
9	461	50.20	164.9	
10	499	236.21	717.5	
11	10,380	75.00	10.9	Upper Marker

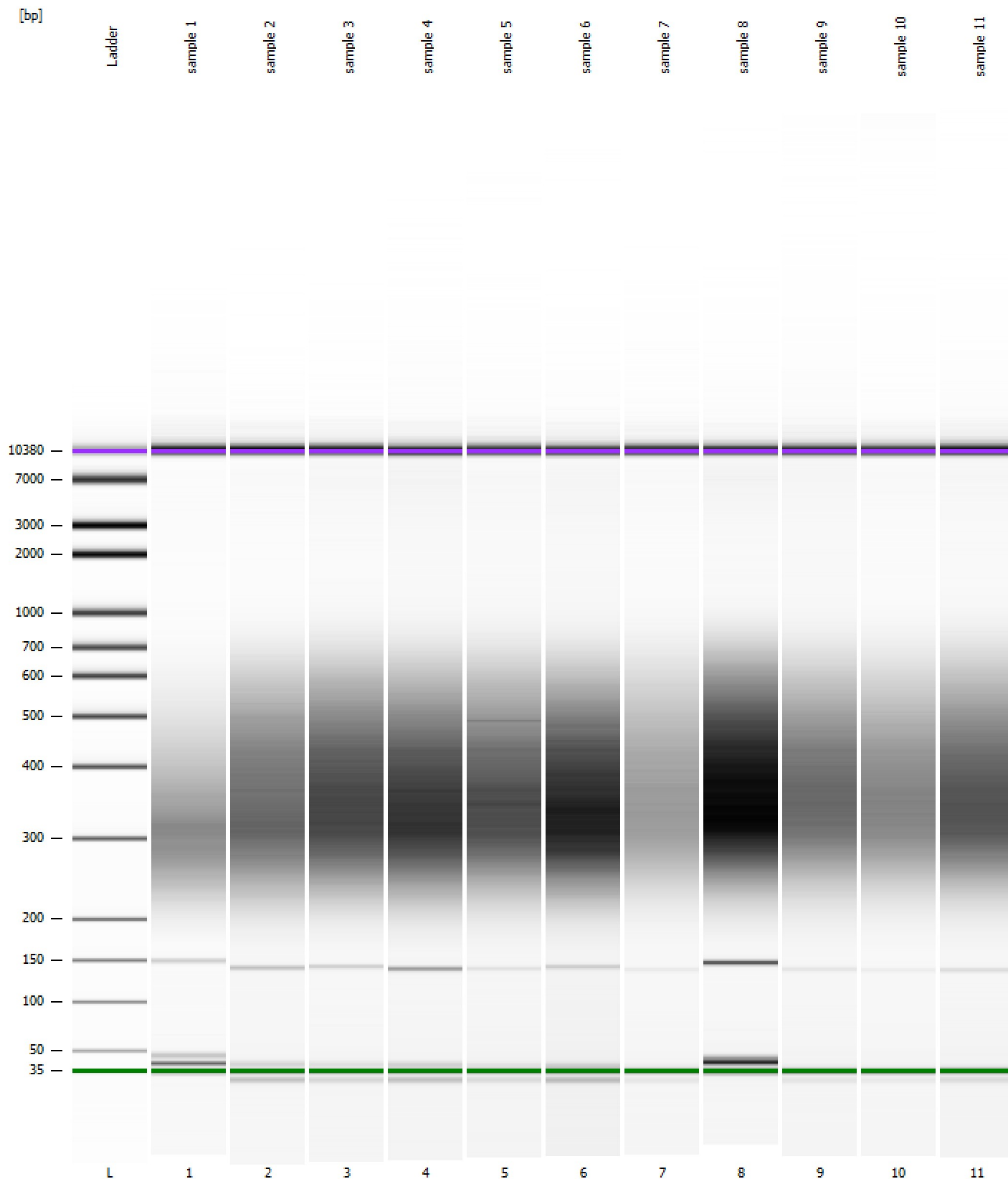
Region table for sample 11 : sample 11

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	1,657.0	97	394	29.1	1,750.45	7,477.2	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
Modified: 6/9/2020 5:00:32 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-09_001.xad

Created: 6/9/2020 4:19:10 PM
 Modified: 6/9/2020 5:00:32 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		6/9/2020 5:00:30 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-06-09\Bioanalyze r1_High Sensitivity DNA Assay_2020-06-09_001.xad)		Instrument	Run		6/9/2020 4:19:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/9/2020 4:19:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/9/2020 4:19:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/9/2020 4:19:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/9/2020 4:19:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/9/2020 4:19:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/9/2020 4:19:15 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB