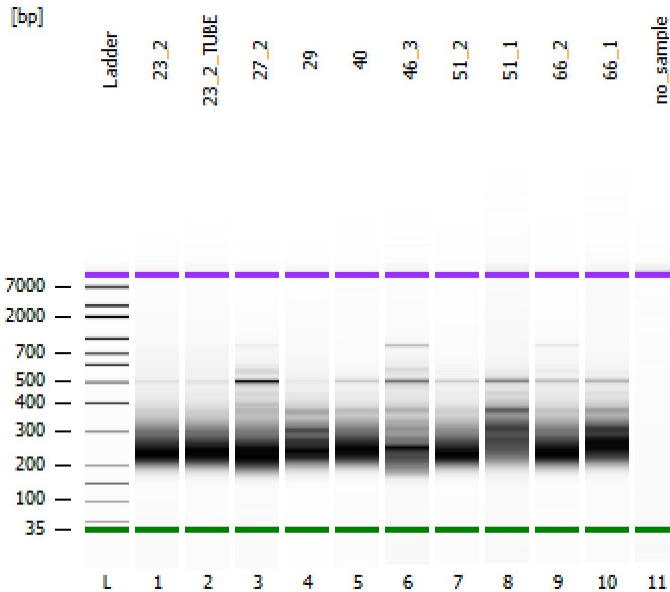


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
Modified: 12/9/2019 12:48:20 PM

Electrophoresis File Run Summary



Instrument Information:

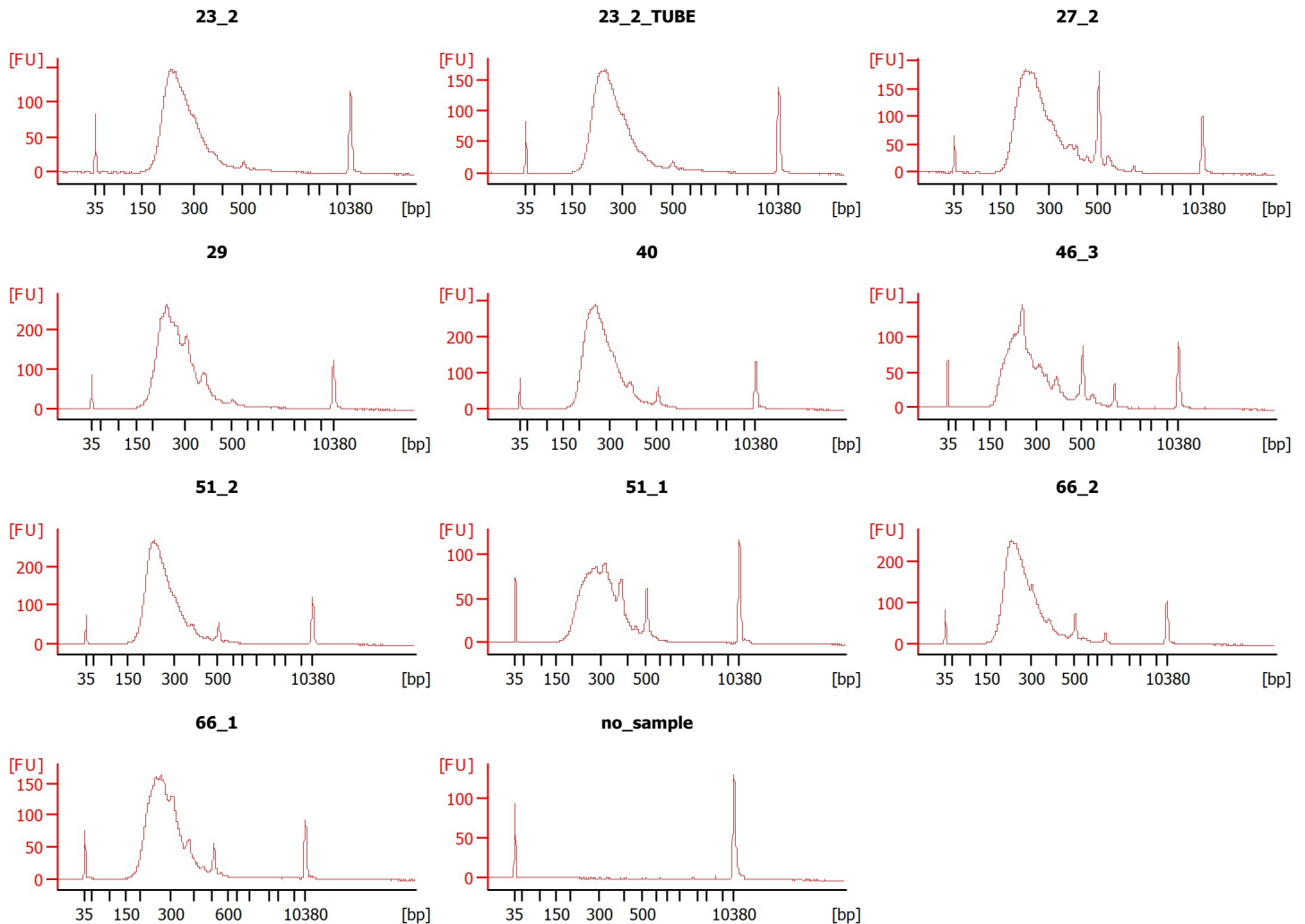
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
23_2		<input type="checkbox"/>	✓			
23_2_TUBE		<input type="checkbox"/>	✓			
27_2		<input type="checkbox"/>	✓			
29		<input type="checkbox"/>	✓			
40		<input type="checkbox"/>	✓			
46_3		<input type="checkbox"/>	✓			
51_2		<input type="checkbox"/>	✓			
51_1		<input type="checkbox"/>	✓			
66_2		<input type="checkbox"/>	✓			
66_1		<input type="checkbox"/>	✓			
no_sample		<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_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 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

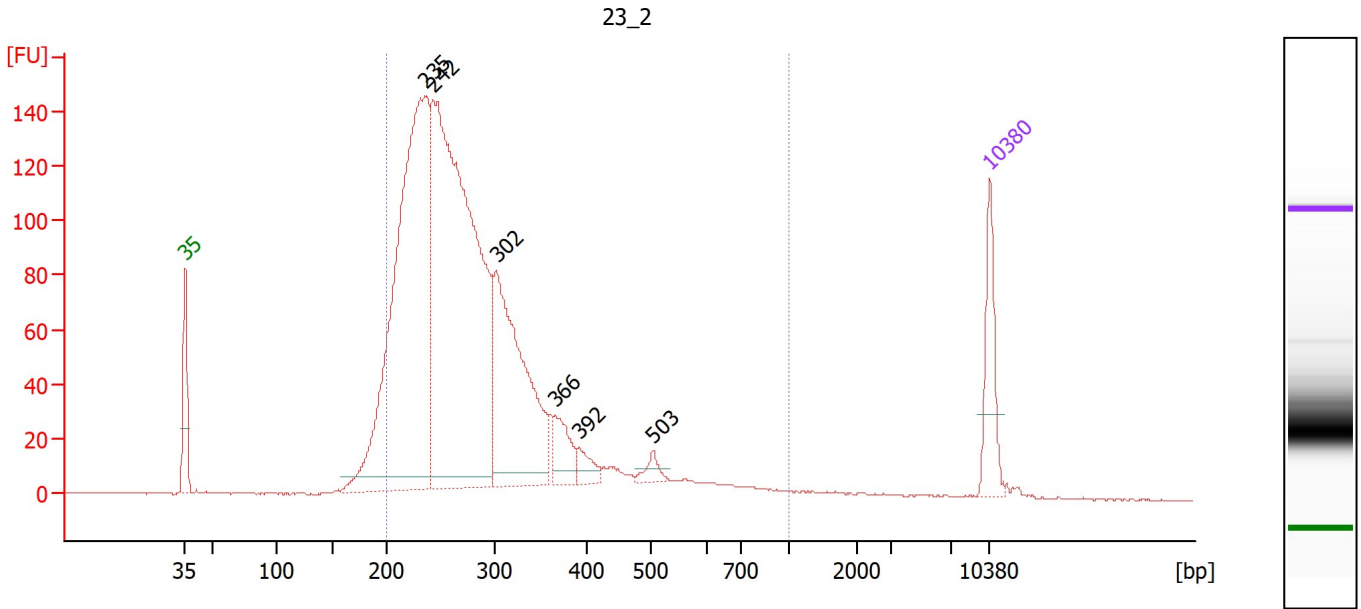
Ladder

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_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary



Overall Results for sample 1 : 23_2

Number of peaks found: 6 Corr. Area 1: 2,324.8
 Noise: 0.2

Peak table for sample 1 : 23_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	235	1,090.86	7,037.9	
3	242	1,267.04	7,922.8	
4	302	450.60	2,262.2	
5	366	64.58	267.7	
6	392	30.54	117.9	
7	503	19.13	57.7	
8	10,380	75.00	10.9	Upper Marker

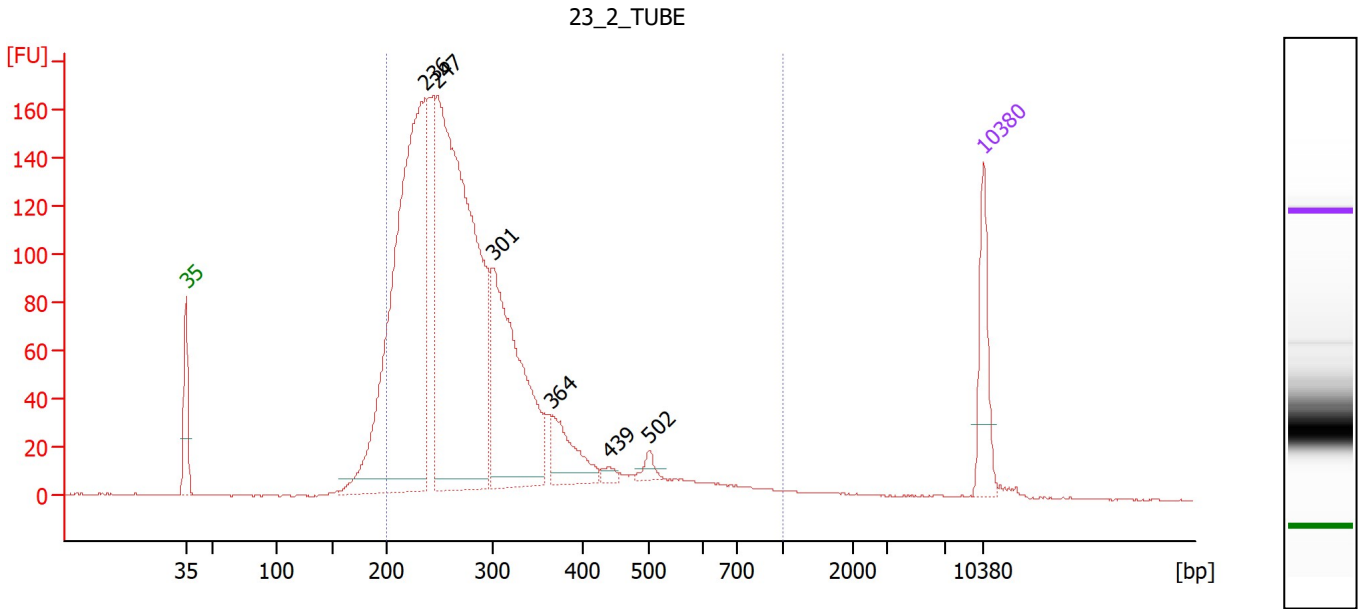
Region table for sample 1 : 23_2

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	2,324.8	93	291	32.1	2,963.47	16,690.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 23_2_TUBE

Number of peaks found: 6 Corr. Area 1: 2,662.6
 Noise: 0.3

Peak table for sample 2 : 23_2_TUBE

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	236	1,024.73	6,570.9	
3	247	1,097.01	6,720.3	
4	301	444.55	2,240.4	
5	364	95.47	397.1	
6	439	10.81	37.3	
7	502	17.15	51.8	
8	10,380	75.00	10.9	Upper Marker

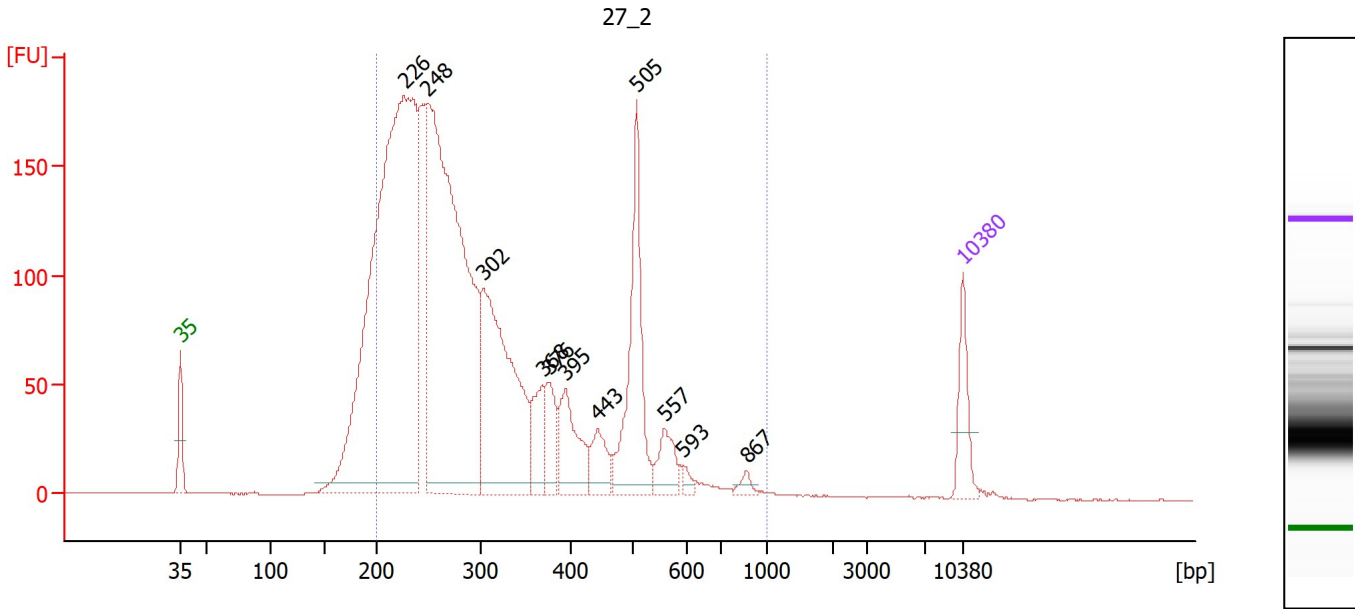
Region table for sample 2 : 23_2_TUBE

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	2,662.6	93	291	32.5	2,949.28	16,610.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 27_2

Number of peaks found: 11 Corr. Area 1: 3,426.0
 Noise: 0.2

Peak table for sample 3 : 27_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	226	2,154.55	14,460.4	
3	248	1,580.47	9,645.7	
4	302	636.20	3,188.5	
5	368	108.20	445.0	
6	376	96.34	388.6	
7	395	157.75	605.4	
8	443	77.31	264.3	
9	505	323.60	970.2	
10	557	72.81	198.0	
11	593	13.69	35.0	
12	867	15.69	27.4	
13	10,380	75.00	10.9	Upper Marker

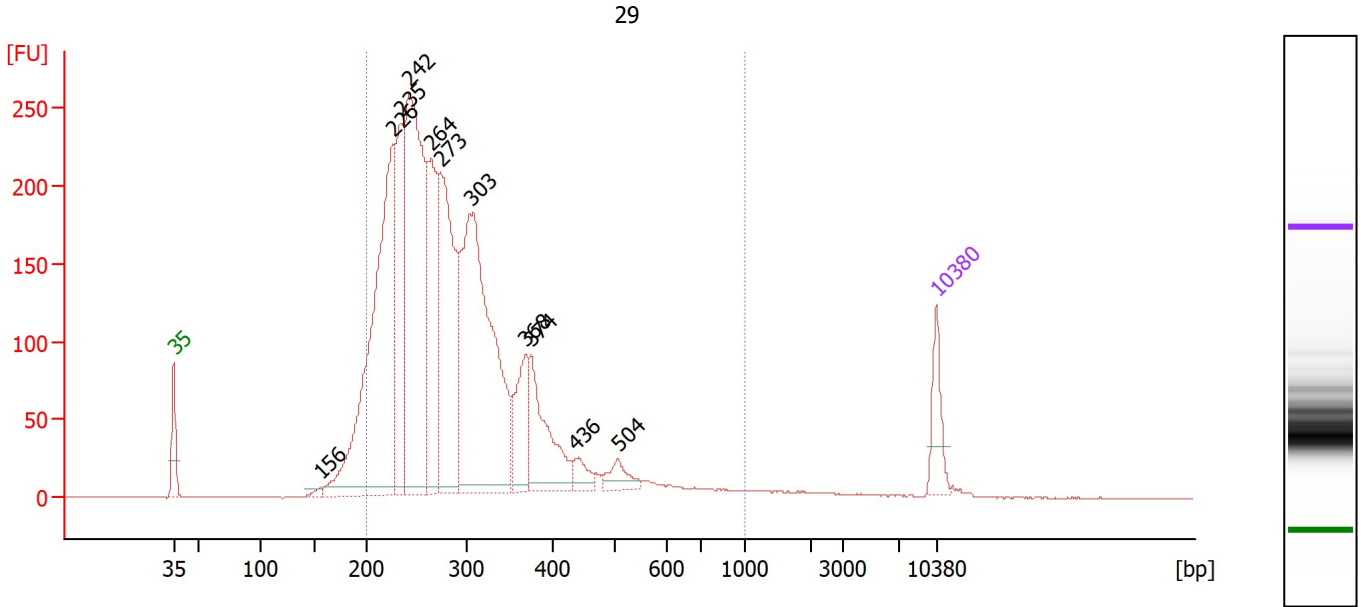
Region table for sample 3 : 27_2

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	3,426.0	89	315	36.1	4,971.78	27,064.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 29

Number of peaks found: 11 Corr. Area 1: 4,202.6
 Noise: 0.2

Peak table for sample 4 : 29

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	156	14.48	140.5	
3	226	1,161.60	7,780.4	
4	235	406.97	2,628.3	
5	242	1,023.66	6,410.0	
6	264	400.04	2,295.7	
7	273	636.30	3,525.3	
8	303	1,055.40	5,270.8	
9	368	178.91	737.6	
10	374	250.88	1,017.2	
11	436	44.09	153.3	
12	504	52.68	158.2	
13	10,380	75.00	10.9	Upper Marker

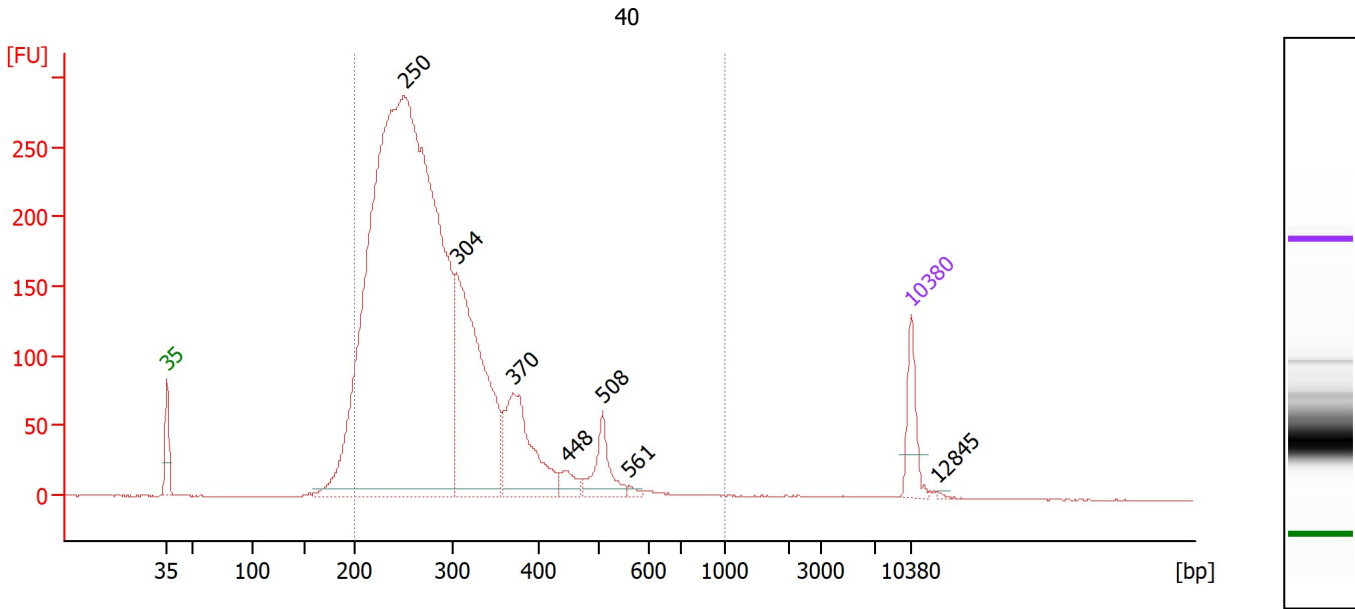
Region table for sample 4 : 29

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	4,202.6	94	297	30.3	5,187.92	28,543.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 40

Number of peaks found: 7 Corr. Area 1: 4,494.0
 Noise: 0.3

Peak table for sample 5 : 40

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	250	3,921.81	23,741.7	
3	304	776.77	3,877.5	
4	370	307.19	1,256.3	
5	448	40.01	135.3	
6	508	99.29	295.8	
7	561	7.79	21.1	
8	10,380	75.00	10.9	Upper Marker
9	12,845	0.00	0.0	

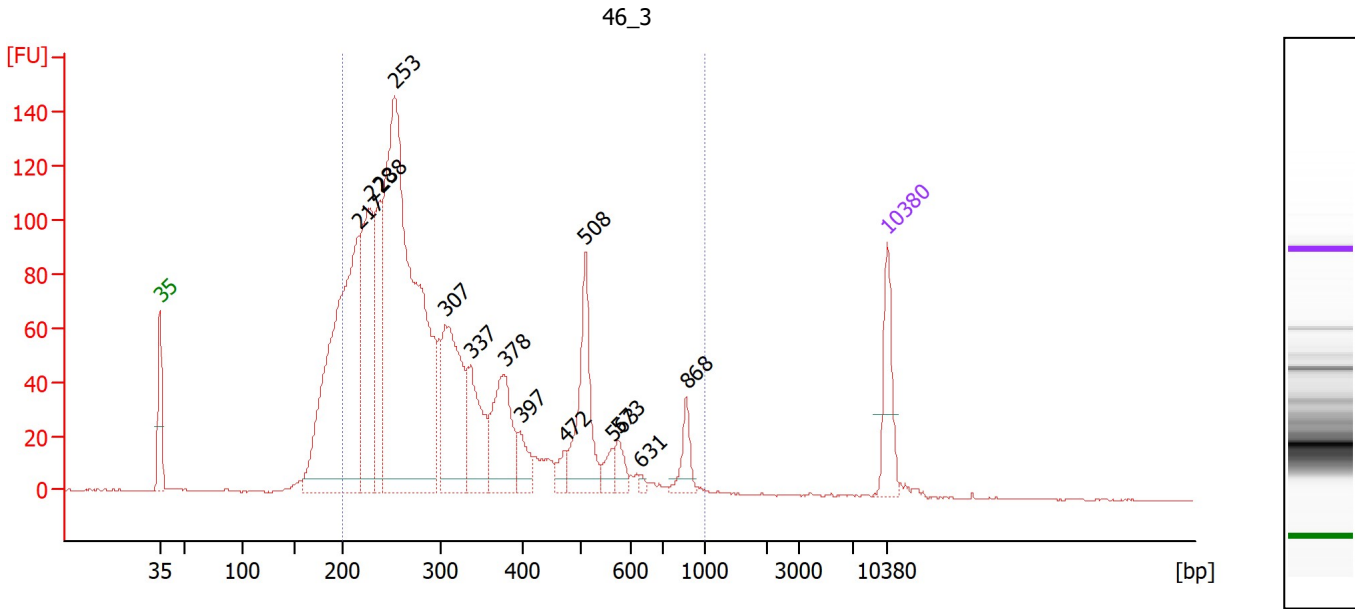
Region table for sample 5 : 40

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	4,494.0	96	289	27.1	4,995.95	27,872.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 46_3

Number of peaks found: 14 Corr. Area 1: 2,152.6
 Noise: 0.3

Peak table for sample 6 : 46_3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	217	787.33	5,502.2	
3	228	354.81	2,359.7	
4	238	193.28	1,229.0	
5	253	1,215.60	7,275.7	
6	307	278.46	1,374.1	
7	337	140.82	633.5	
8	378	171.93	688.8	
9	397	46.15	176.2	
10	472	24.69	79.3	
11	508	175.19	522.3	
12	563	24.32	65.5	
13	573	29.15	77.0	
14	631	5.96	14.3	
15	868	40.84	71.3	
16	10,380	75.00	10.9	Upper Marker

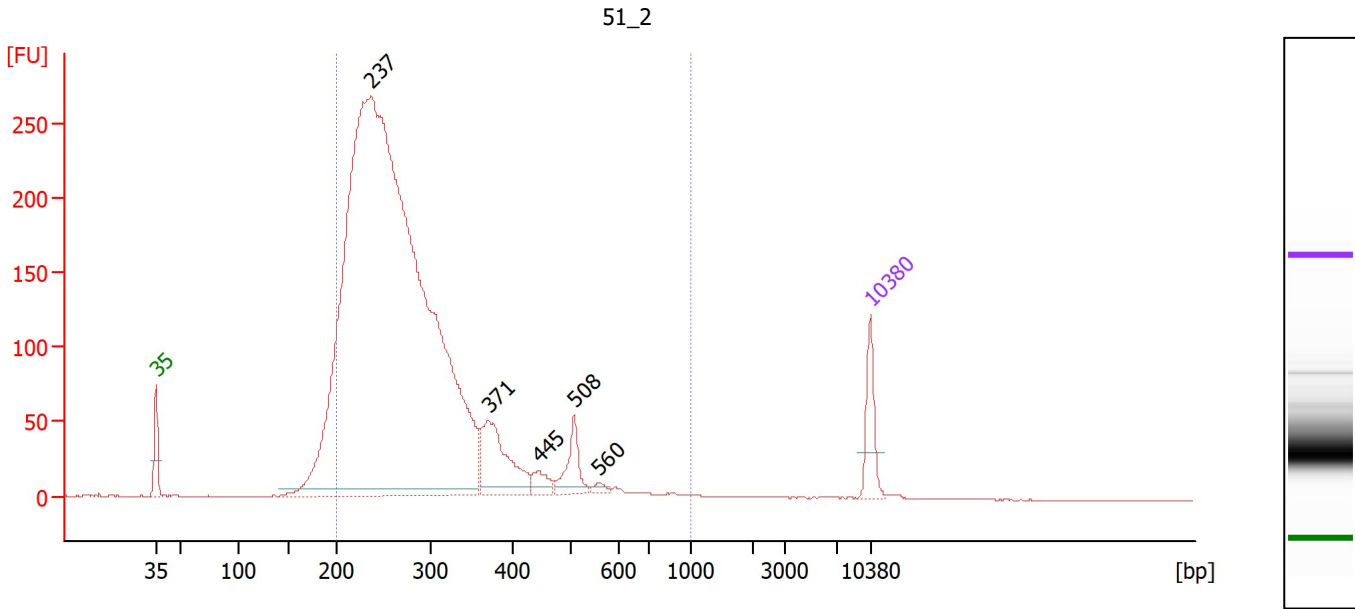
Region table for sample 6 : 46_3

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	2,152.6	88	326	41.1	3,259.14	17,513.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 51_2

Number of peaks found: 5 Corr. Area 1: 3,918.6
 Noise: 0.2

Peak table for sample 7 : 51_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	237	5,013.45	32,085.2	
3	371	229.76	937.9	
4	445	36.14	123.0	
5	508	85.69	255.5	
6	560	12.94	35.0	
7	10,380	75.00	10.9	Upper Marker

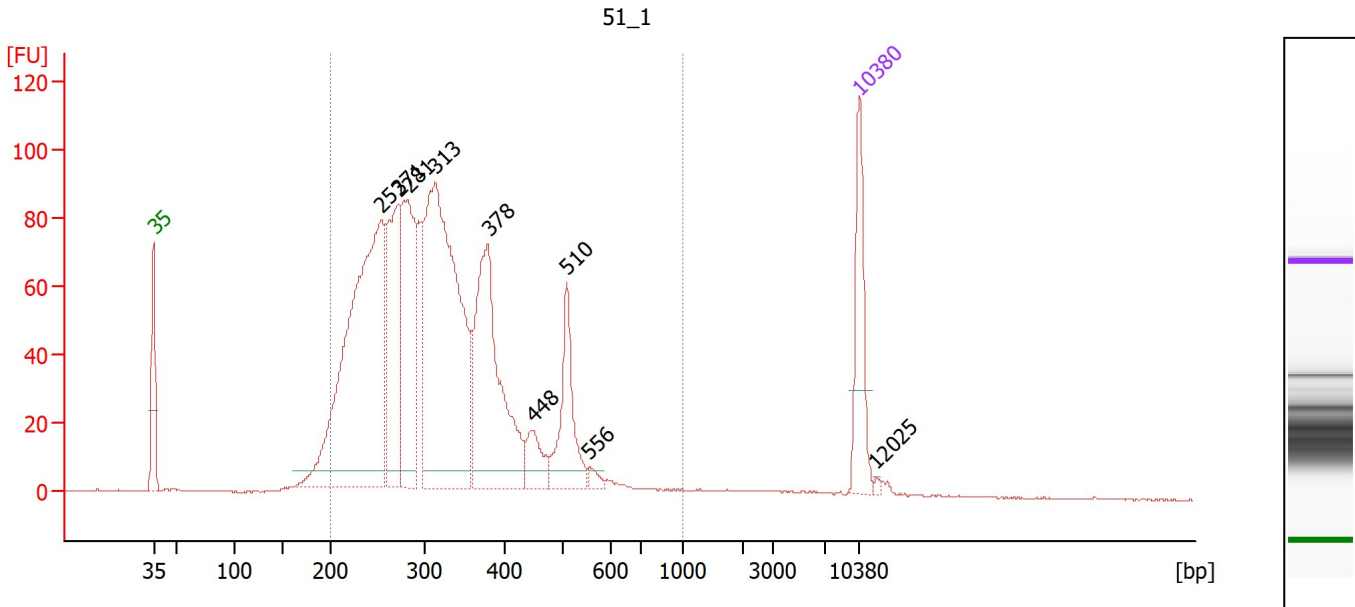
Region table for sample 7 : 51_2

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	3,918.6	93	285	29.5	4,982.36	28,339.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 51_1

Number of peaks found: 9 Corr. Area 1: 1,901.9
 Noise: 0.2

Peak table for sample 8 : 51_1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	253	642.39	3,845.7	
3	271	213.49	1,192.6	
4	281	243.60	1,311.4	
5	313	579.14	2,804.8	
6	378	293.90	1,177.6	
7	448	39.89	135.0	
8	510	101.78	302.5	
9	556	8.46	23.1	
10	10,380	75.00	10.9	Upper Marker
11	12,025	0.00	0.0	

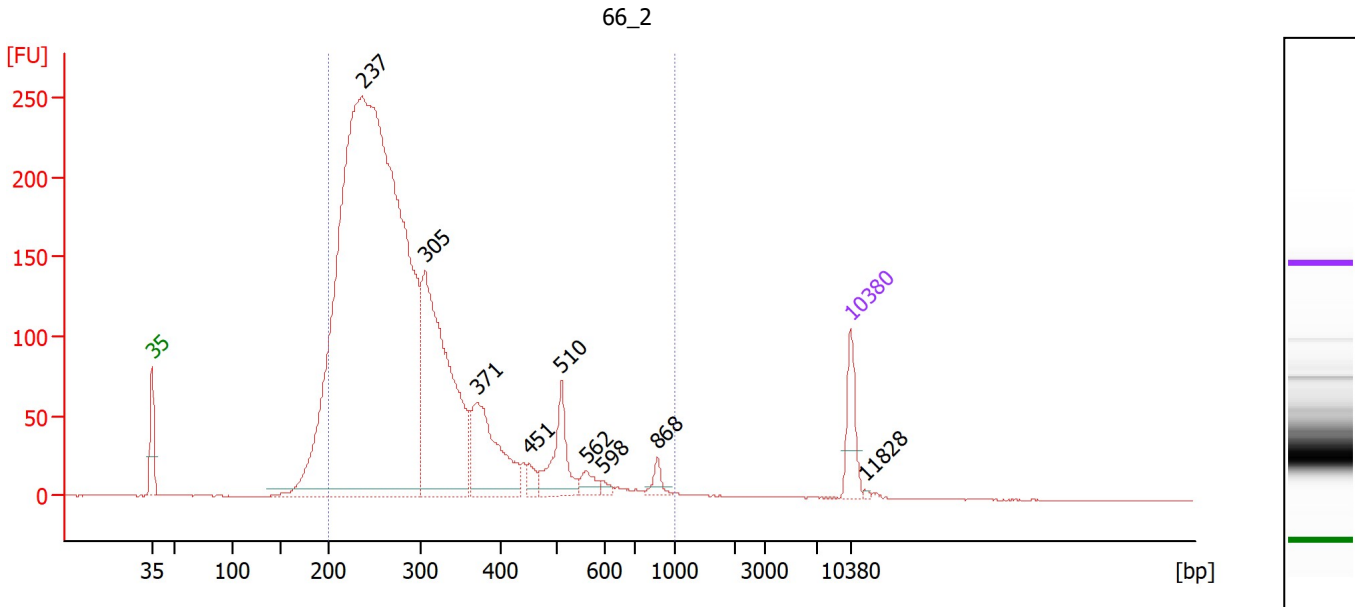
Region table for sample 8 : 51_1

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	1,901.9	95	325	29.0	2,273.16	11,550.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 66_2

Number of peaks found: 9 Corr. Area 1: 3,984.0
 Noise: 0.2

Peak table for sample 9 : 66_2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	237	4,275.34	27,293.9	
3	305	848.11	4,210.7	
4	371	300.50	1,226.7	
5	451	31.87	107.1	
6	510	142.58	423.6	
7	562	33.13	89.3	
8	598	11.32	28.7	
9	868	25.92	45.3	
10	10,380	75.00	10.9	Upper Marker
11	11,828	0.00	0.0	

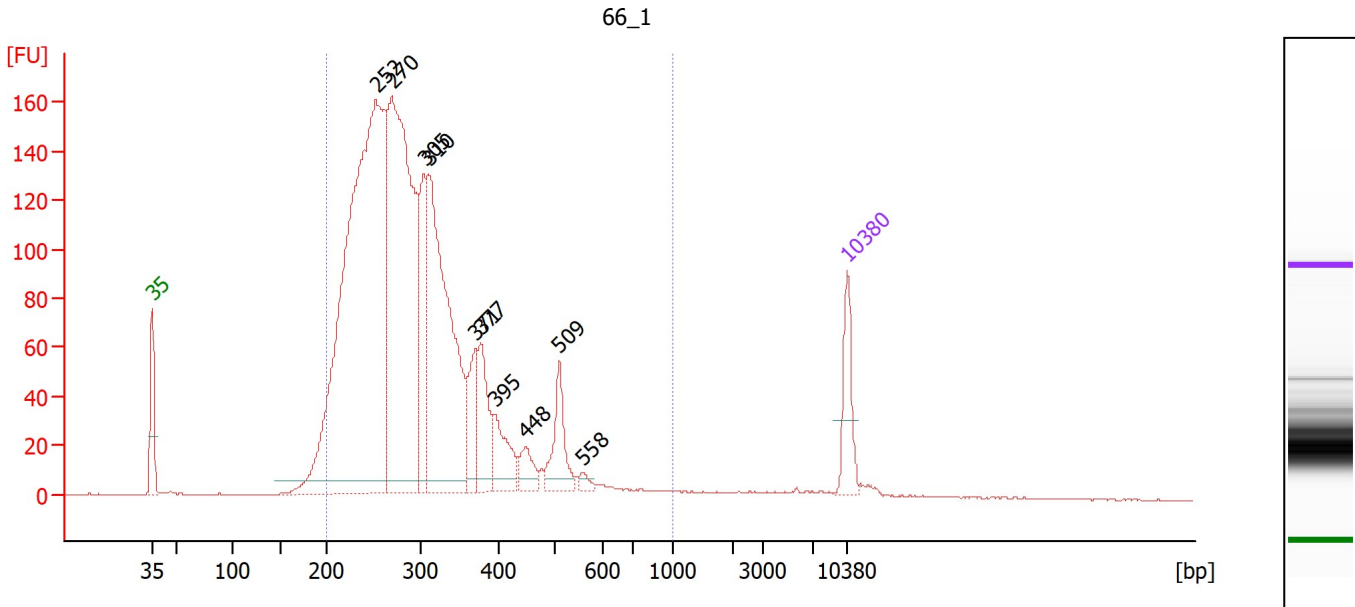
Region table for sample 9 : 66_2

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	3,984.0	94	299	34.3	5,348.69	29,665.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 66_1

Number of peaks found: 10 Corr. Area 1: 2,846.1
 Noise: 0.2

Peak table for sample 10 : 66_1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	252	1,826.04	10,962.4	
3	270	1,104.35	6,204.7	
4	305	206.05	1,023.6	
5	310	726.86	3,547.9	
6	371	100.88	412.4	
7	377	133.08	535.2	
8	395	92.69	355.5	
9	448	47.72	161.4	
10	509	101.42	301.9	
11	558	12.48	33.9	
12	10,380	75.00	10.9	Upper Marker

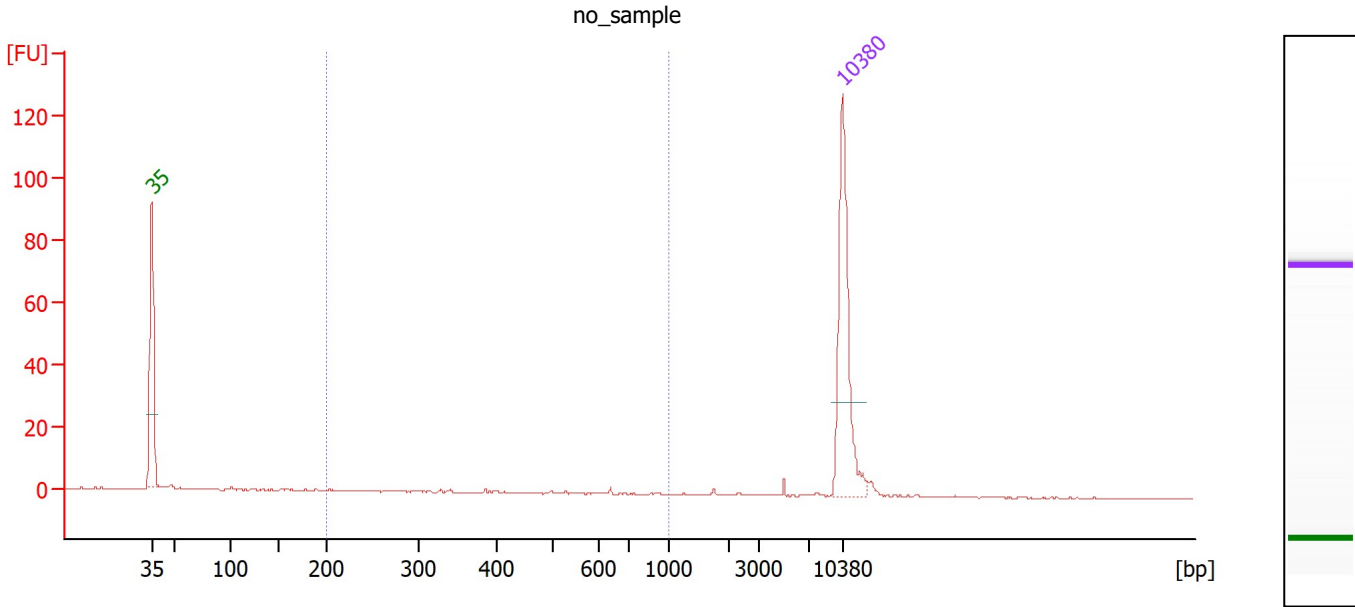
Region table for sample 10 : 66_1

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	2,846.1	95	305	29.0	4,399.81	23,509.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : no_sample

Number of peaks found: 0 Corr. Area 1: 4.0
 Noise: 0.2

Peak table for sample 11 : no_sample

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

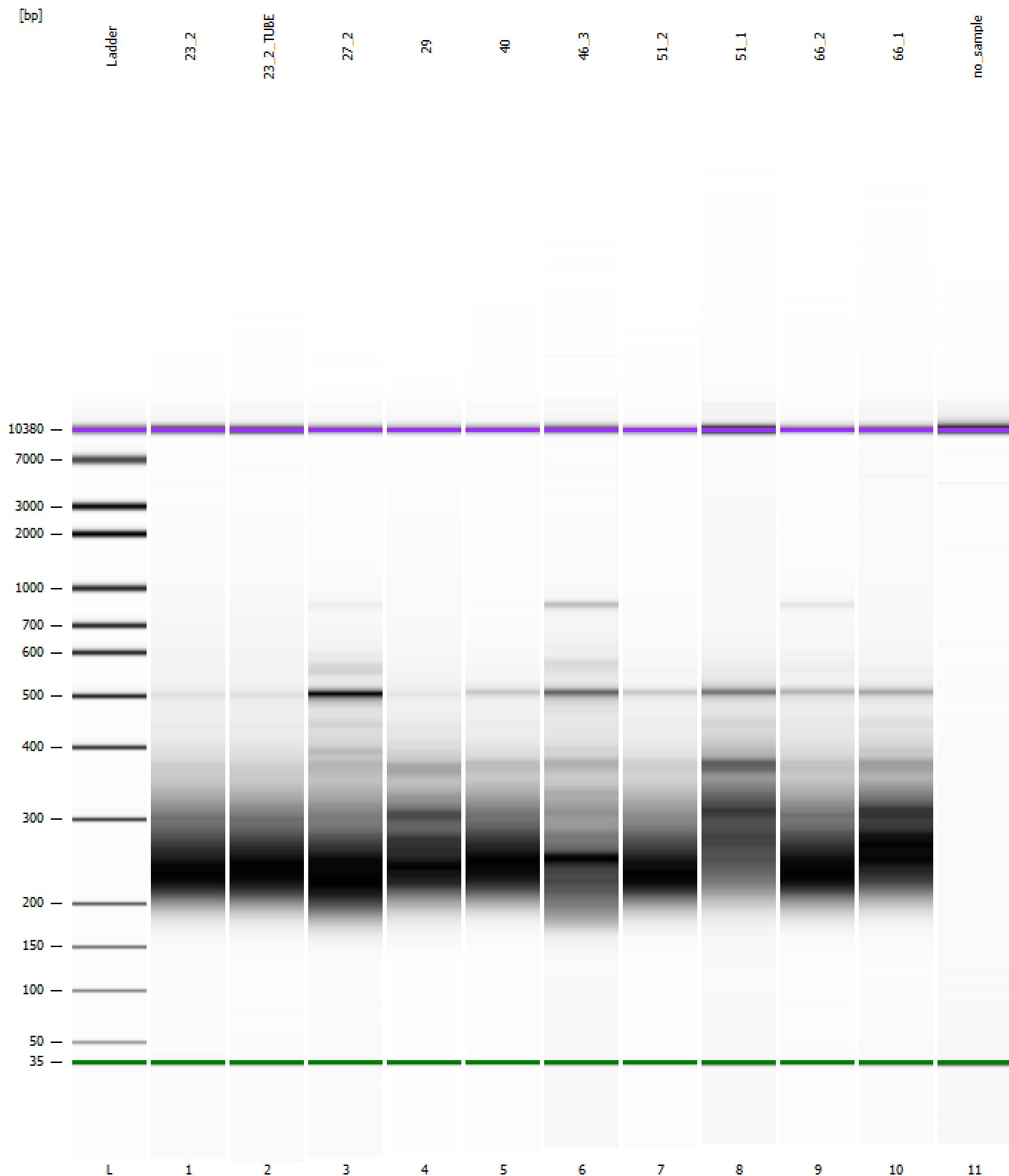
Region table for sample 11 : no_sample

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	4.0	19	431	38.9	3.49	15.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
Modified: 12/9/2019 12:48:20 PM

Gel Image

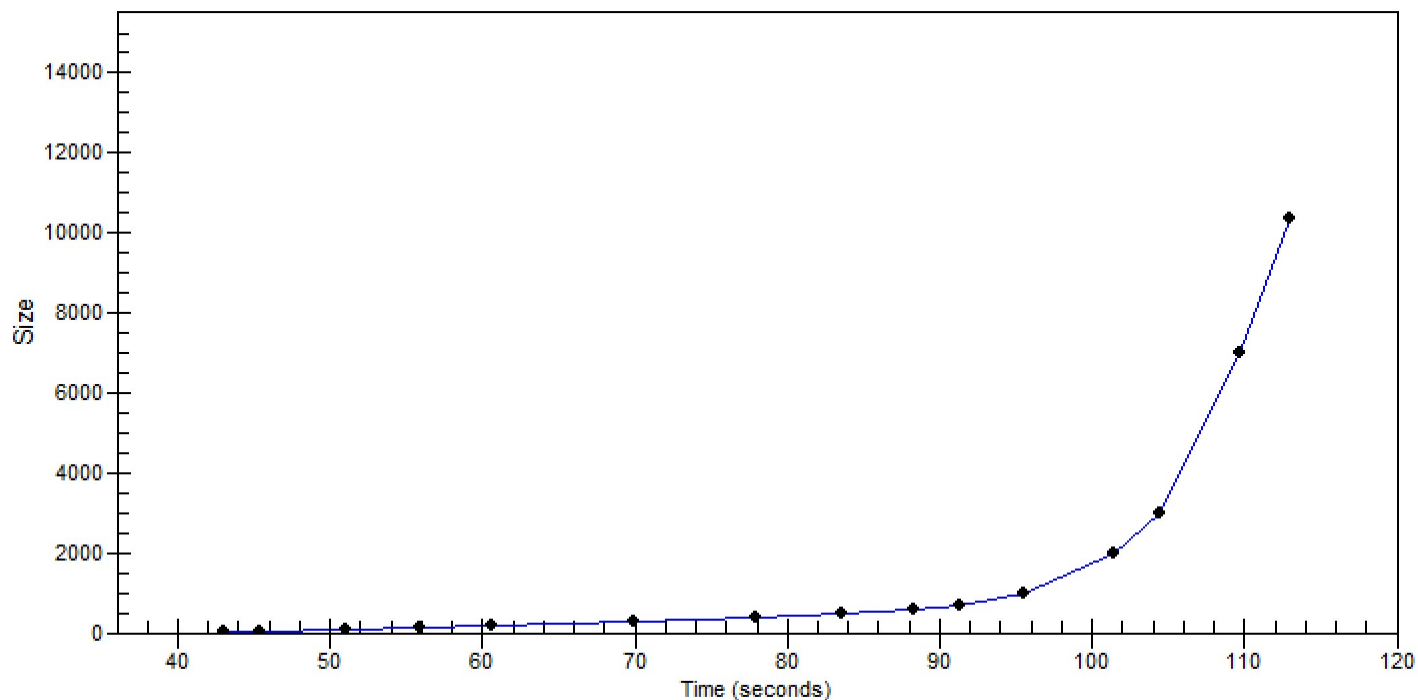


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
Modified: 12/9/2019 12:48:20 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2019-12-09_001.xad

Created: 12/9/2019 12:06:54 PM
 Modified: 12/9/2019 12:48:20 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		12/9/2019 12:48:17 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-09\Bioanalyze r1_High Sensitivity DNA Assay_2019-12-09_001.xad)		Instrument	Run		12/9/2019 12:07:00 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/9/2019 12:07:00 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/9/2019 12:07:00 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/9/2019 12:07:00 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/9/2019 12:07:00 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/9/2019 12:07:00 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/9/2019 12:07:00 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB