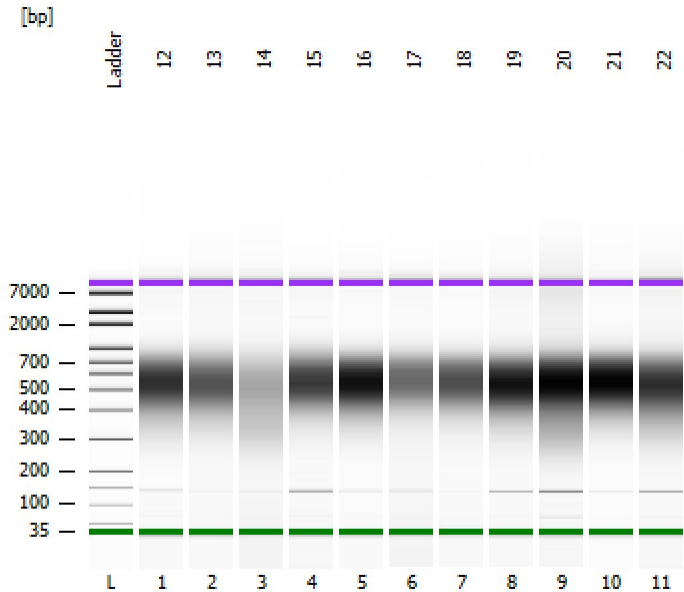


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
Modified: 6/15/2020 2:10:27 PM

Electrophoresis File Run Summary



Instrument Information:

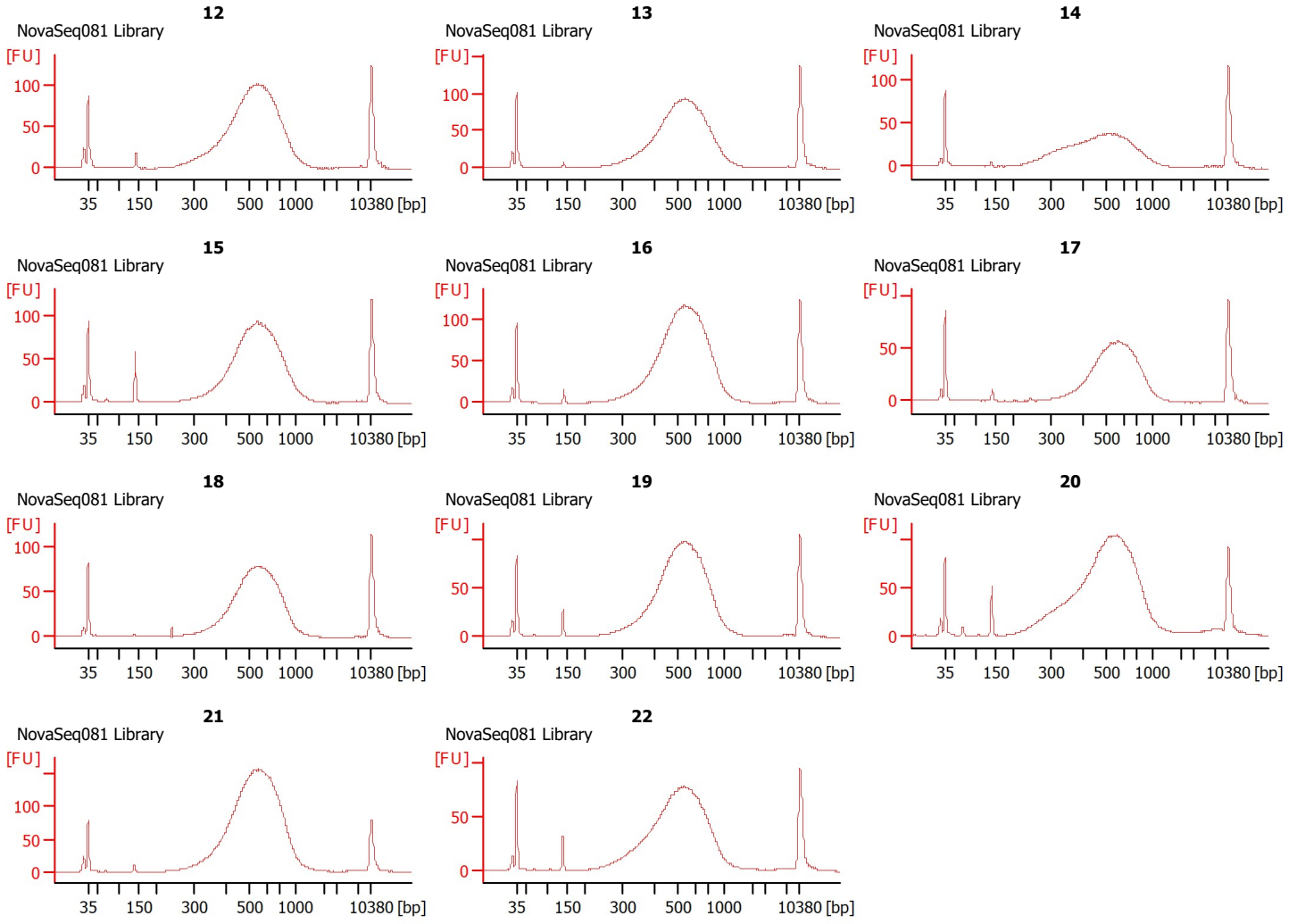
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
12	NovaSeq081 Library	<input type="checkbox"/>	✓			
13	NovaSeq081 Library	<input type="checkbox"/>	✓			
14	NovaSeq081 Library	<input type="checkbox"/>	✓			
15	NovaSeq081 Library	<input type="checkbox"/>	✓			
16	NovaSeq081 Library	<input type="checkbox"/>	✓			
17	NovaSeq081 Library	<input type="checkbox"/>	✓			
18	NovaSeq081 Library	<input type="checkbox"/>	✓			
19	NovaSeq081 Library	<input type="checkbox"/>	✓			
20	NovaSeq081 Library	<input type="checkbox"/>	✓			
21	NovaSeq081 Library	<input type="checkbox"/>	✓			
22	NovaSeq081 Library	<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_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 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

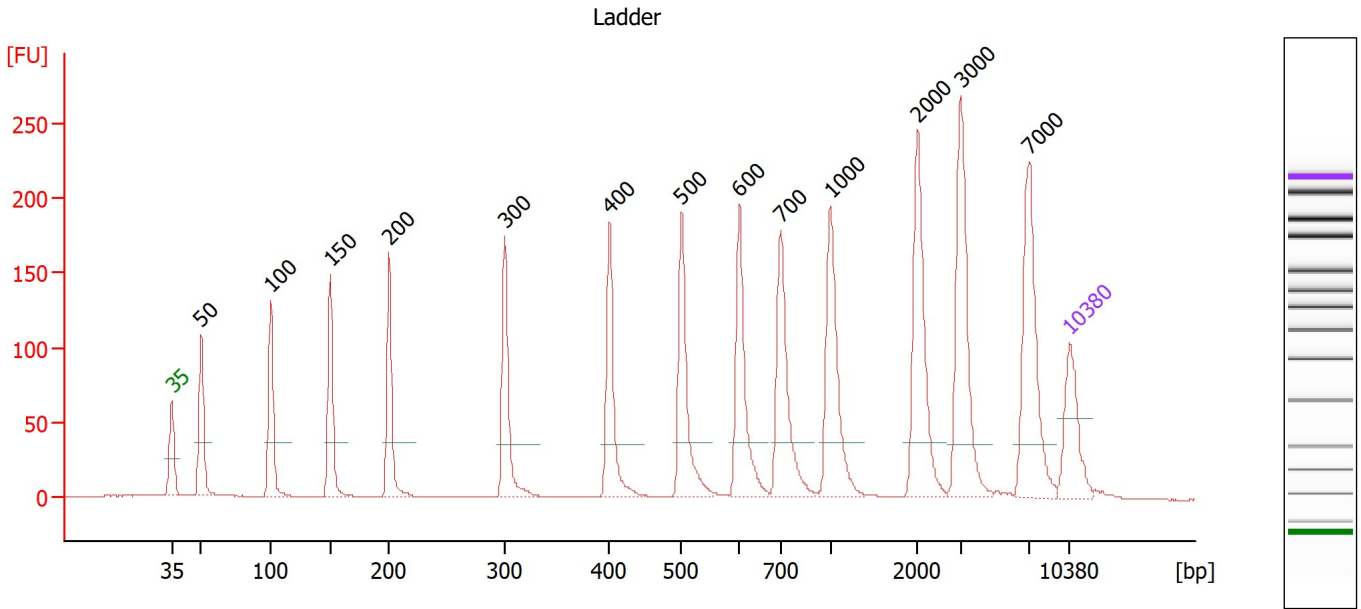
Ladder

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_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

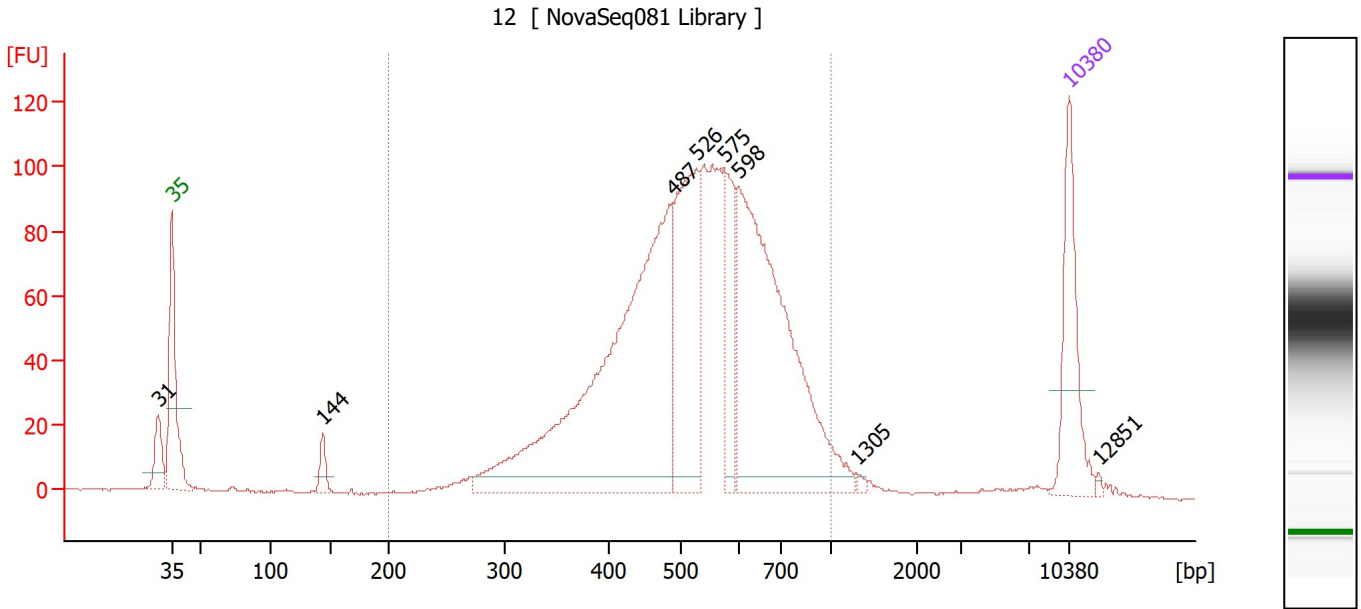
Peak table for Ladder

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: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 12

Number of peaks found: 8 Corr. Area 1: 1,750.8
 Noise: 0.3

Peak table for sample 1 : 12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	144	20.34	214.3	
4	487	554.64	1,727.1	
5	526	203.41	585.5	
6	575	77.73	204.7	
7	598	380.46	964.0	
8	1,305	3.20	3.7	
9	10,380	75.00	10.9	Upper Marker
10	12,851	0.00	0.0	

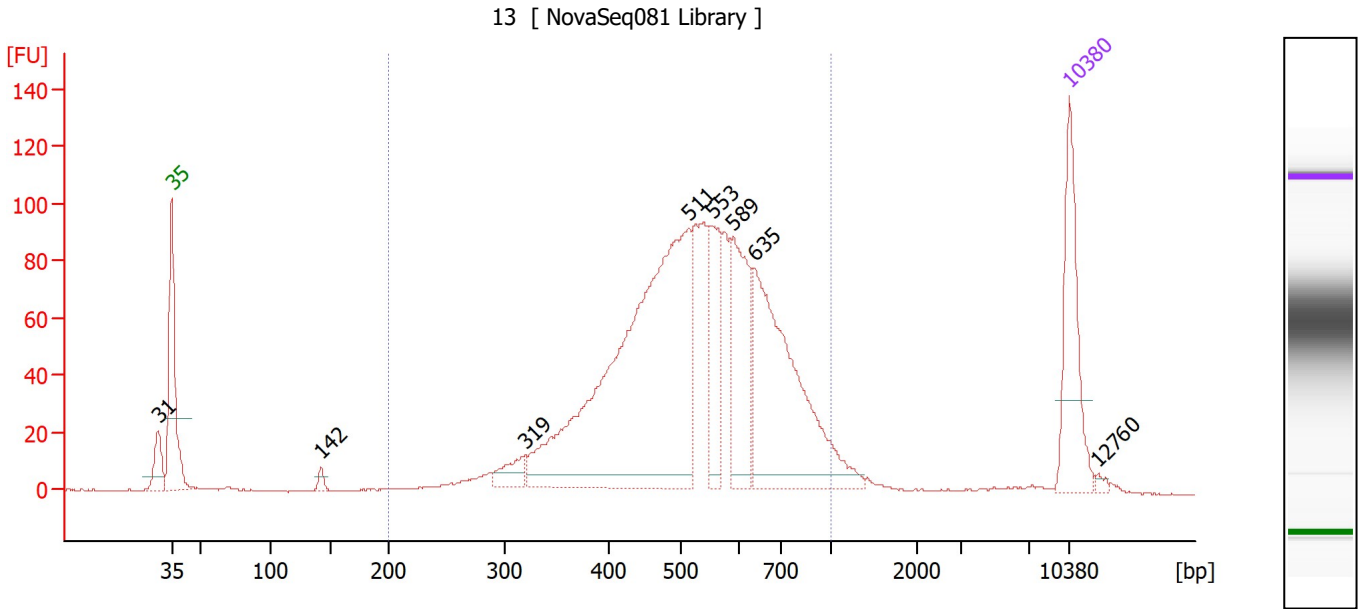
Region table for sample 1 : 12

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	1,750.8	94	538	25.0	1,454.79	4,479.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 13

Number of peaks found: 8 Corr. Area 1: 1,676.6
 Noise: 0.2

Peak table for sample 2 : 13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	142	7.21	76.9	
4	319	23.59	112.1	
5	511	534.80	1,586.3	
6	553	78.40	214.7	
7	589	108.08	278.1	
8	635	235.19	561.0	
9	10,380	75.00	10.9	Upper Marker
10	12,760	0.00	0.0	

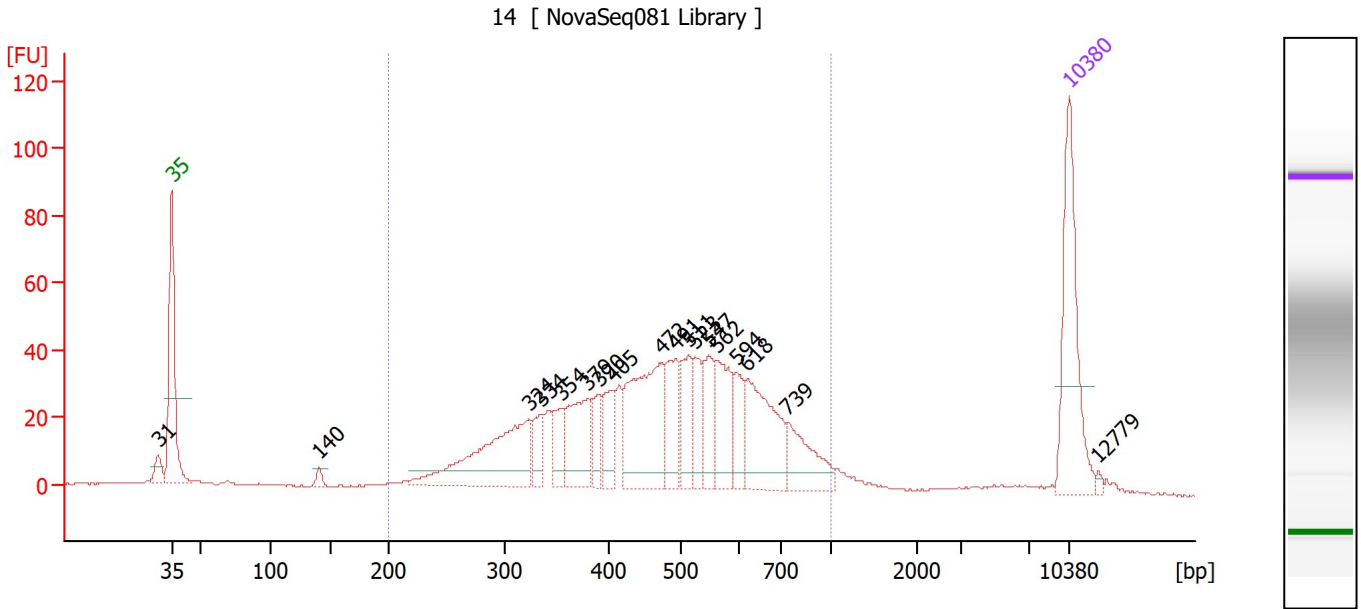
Region table for sample 2 : 13

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	1,676.6	92	535	25.7	1,234.35	3,838.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 14

Number of peaks found: 18 Corr. Area 1: 955.8
 Noise: 0.2

Peak table for sample 3 : 14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	140	6.17	66.6	
4	324	118.93	556.8	
5	334	22.98	104.3	
6	354	25.91	111.0	
7	379	58.93	235.5	
8	390	21.84	84.8	
9	405	28.54	106.8	
10	472	110.62	355.0	
11	491	43.62	134.5	
12	511	35.70	105.8	
13	523	27.16	78.7	
14	547	33.85	93.8	
15	562	45.20	121.8	
16	594	24.57	62.6	
17	618	74.27	182.1	
18	739	40.67	83.4	
19	10,380	75.00	10.9	Upper Marker
20	12,779	0.00	0.0	

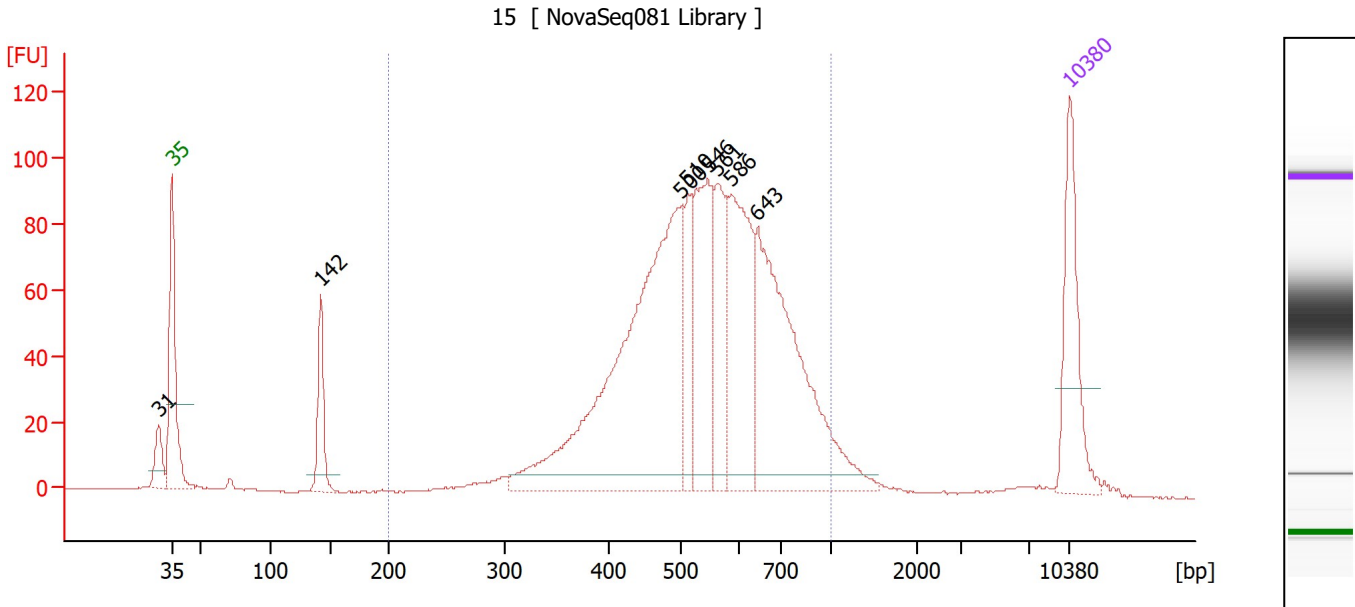
Region table for sample 3 : 14

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	955.8	92	485	30.5	800.89	2,855.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 15

Number of peaks found: 8 Corr. Area 1: 1,524.5
 Noise: 0.2

Peak table for sample 4 : 15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	142	64.05	684.8	
4	500	471.38	1,427.8	
5	510	58.87	175.0	
6	546	142.39	395.3	
7	561	90.60	244.7	
8	586	155.84	403.2	
9	643	271.59	639.9	
10	10,380	75.00	10.9	Upper Marker

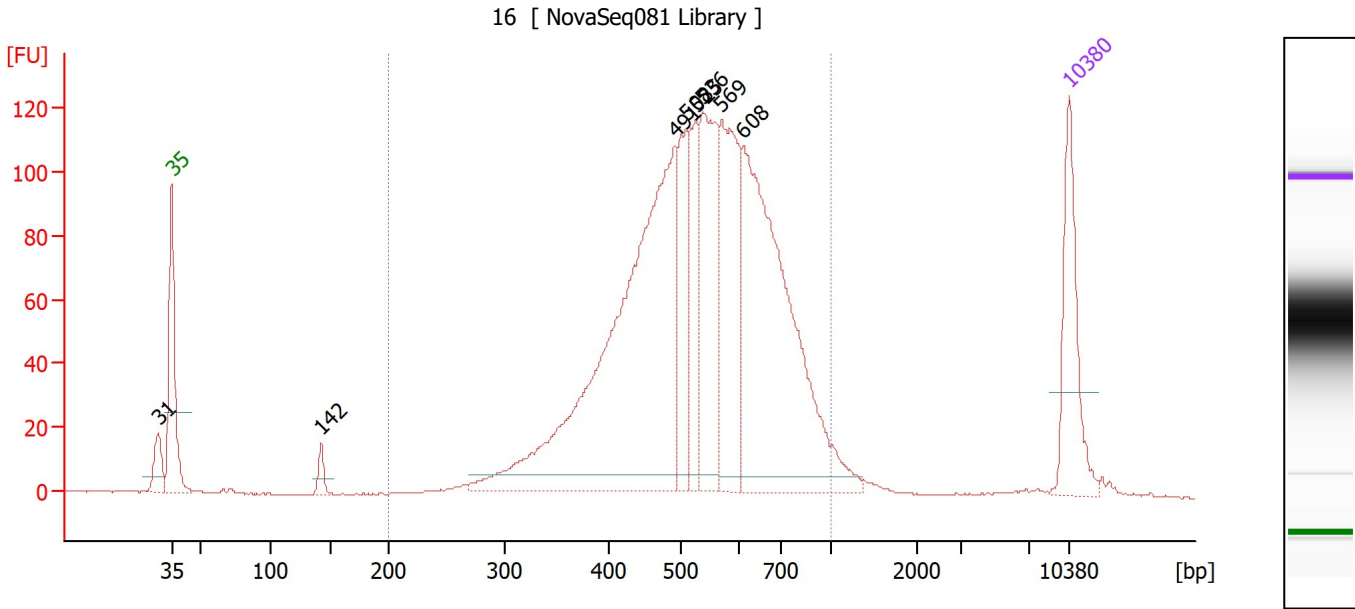
Region table for sample 4 : 15

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	1,524.5	91	554	24.1	1,215.38	3,595.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 16

Number of peaks found: 8 Corr. Area 1: 1,953.0
 Noise: 0.2

Peak table for sample 5 : 16

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	142	15.69	167.0	
4	491	568.13	1,753.3	
5	508	99.61	297.3	
6	525	77.69	224.1	
7	536	155.03	438.2	
8	569	158.27	421.3	
9	608	381.26	949.7	
10	10,380	75.00	10.9	Upper Marker

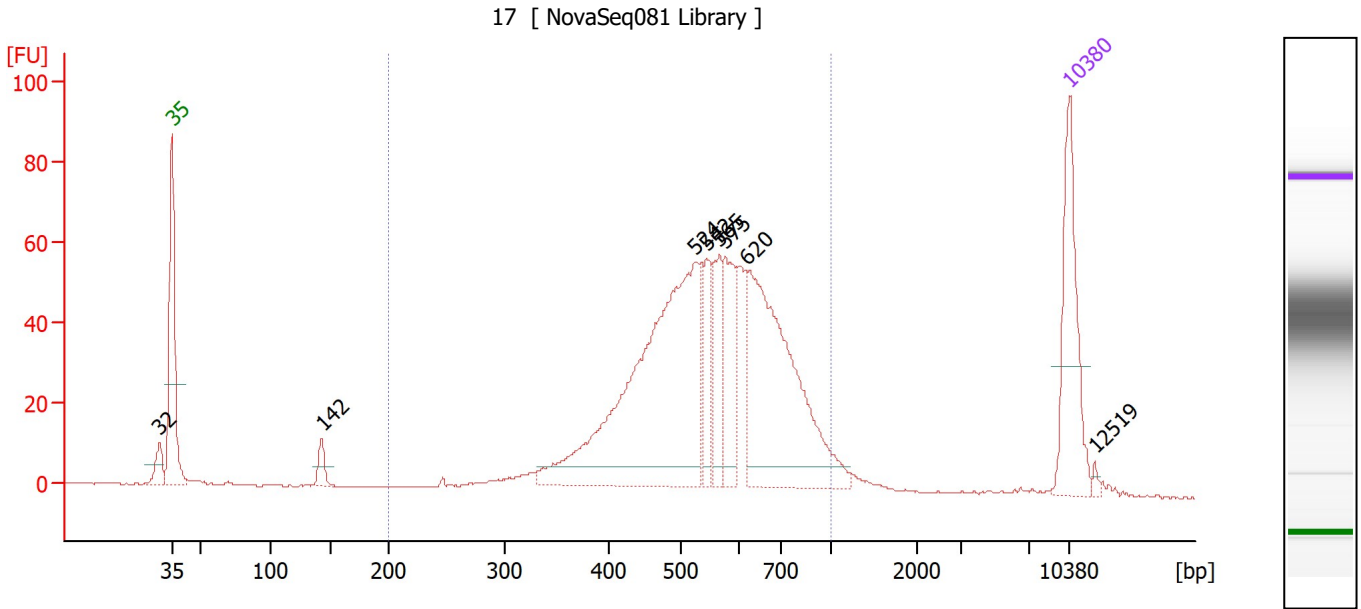
Region table for sample 5 : 16

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	1,953.0	95	543	24.0	1,508.25	4,555.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 17

Number of peaks found: 8 Corr. Area 1: 907.2
 Noise: 0.2

Peak table for sample 6 : 17

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	15.09	160.4	
4	524	361.56	1,044.6	
5	542	46.22	129.1	
6	565	41.93	112.4	
7	575	66.06	174.2	
8	620	228.37	558.4	
9	10,380	75.00	10.9	Upper Marker
10	12,519	0.00	0.0	

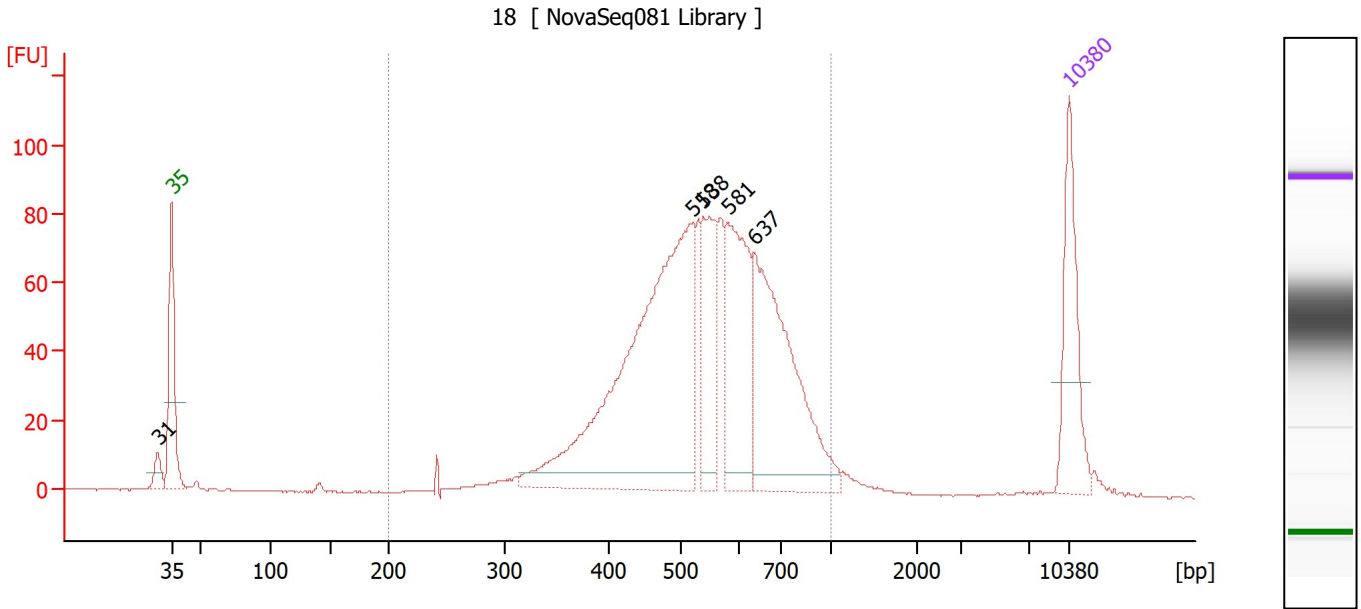
Region table for sample 6 : 17

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	907.2	94	562	23.3	853.34	2,477.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 18

Number of peaks found: 5 Corr. Area 1: 1,263.3
 Noise: 0.2

Peak table for sample 7 : 18

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	518	471.72	1,380.1	
4	538	95.10	267.6	
5	581	145.06	378.4	
6	637	229.78	546.5	
7	10,380	75.00	10.9	Upper Marker

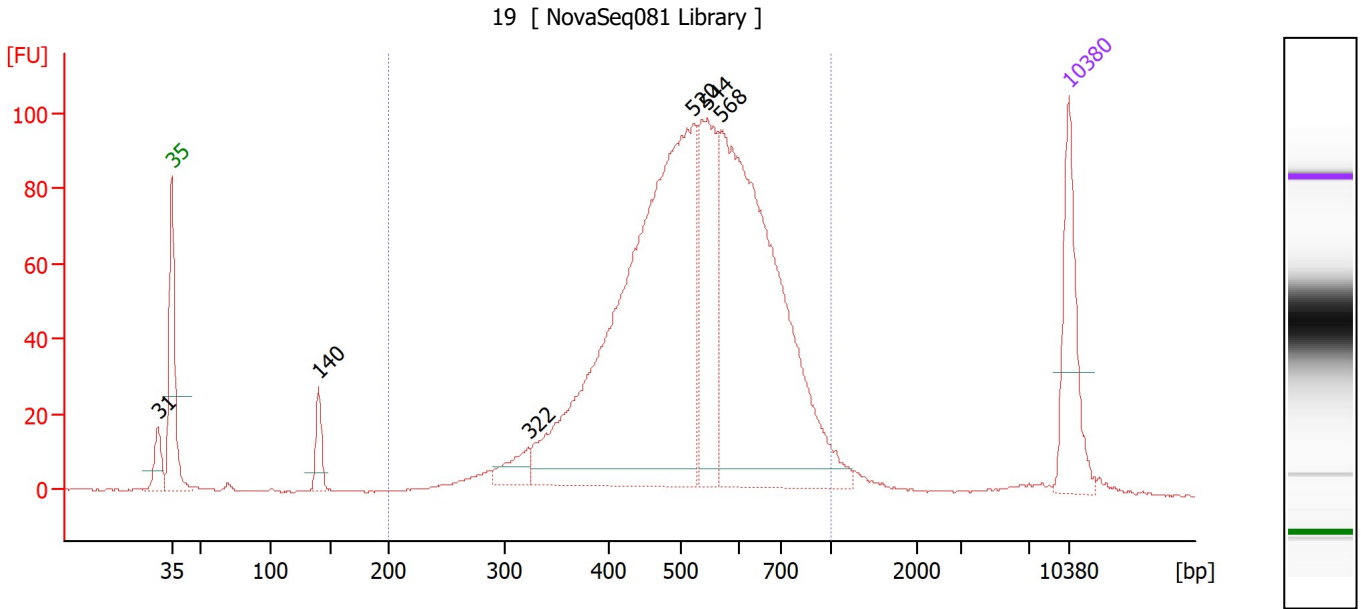
Region table for sample 7 : 18

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	1,263.3	96	551	23.3	1,104.35	3,275.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 19

Number of peaks found: 6 Corr. Area 1: 1,646.1
 Noise: 0.2

Peak table for sample 8 : 19

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	140	34.35	371.3	
4	322	29.81	140.2	
5	520	731.03	2,129.3	
6	544	165.33	460.1	
7	568	537.85	1,435.9	
8	10,380	75.00	10.9	Upper Marker

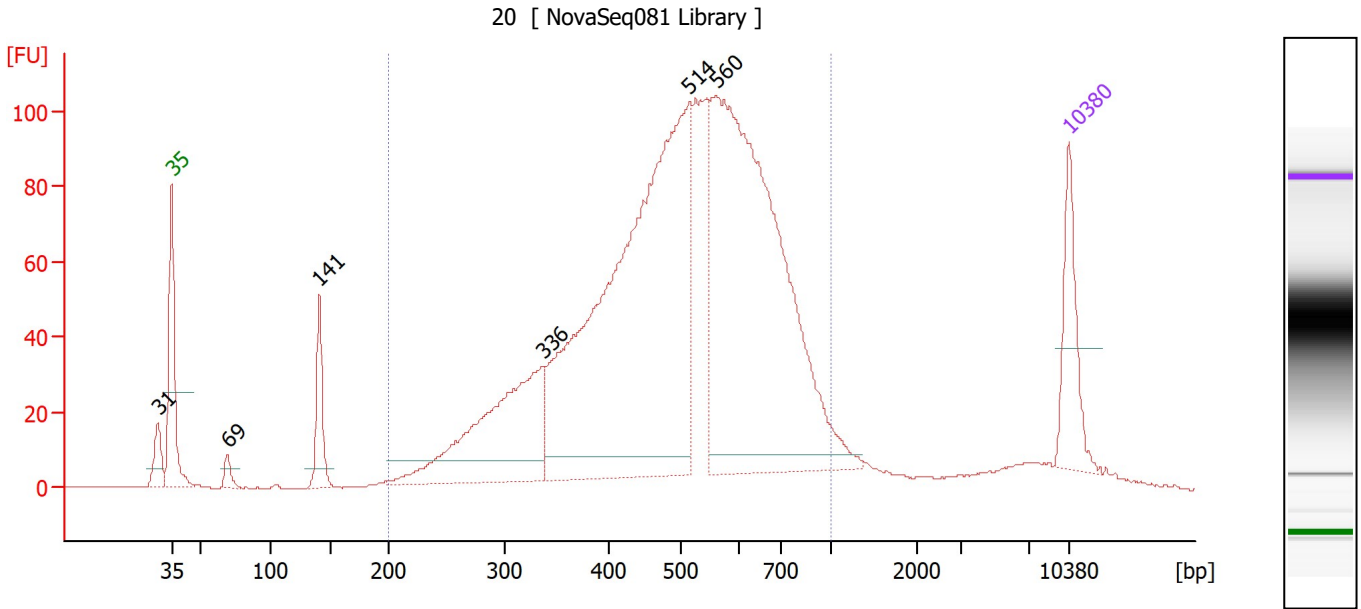
Region table for sample 8 : 19

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	1,646.1	94	535	24.3	1,577.70	4,854.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 20

Number of peaks found: 6 Corr. Area 1: 2,098.3
 Noise: 0.3

Peak table for sample 9 : 20

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	69	17.30	380.0	
4	141	85.44	921.2	
5	336	303.06	1,367.7	
6	514	963.03	2,839.8	
7	560	830.15	2,244.8	
8	10,380	75.00	10.9	Upper Marker

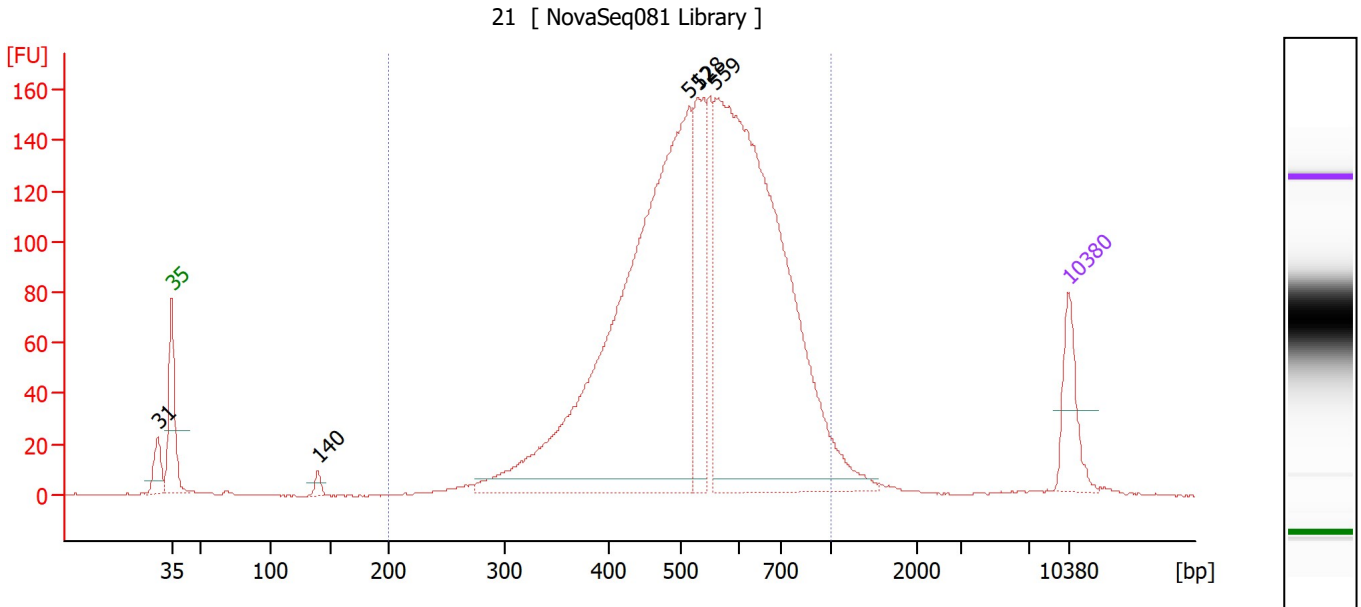
Region table for sample 9 : 20

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	2,098.3	90	514	28.6	2,516.93	8,423.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 21

Number of peaks found: 5 Corr. Area 1: 2,604.7
 Noise: 0.2

Peak table for sample 10 : 21

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	140	17.17	186.4	
4	512	1,430.46	4,232.2	
5	528	233.25	669.2	
6	559	1,345.33	3,647.0	
7	10,380	75.00	10.9	Upper Marker

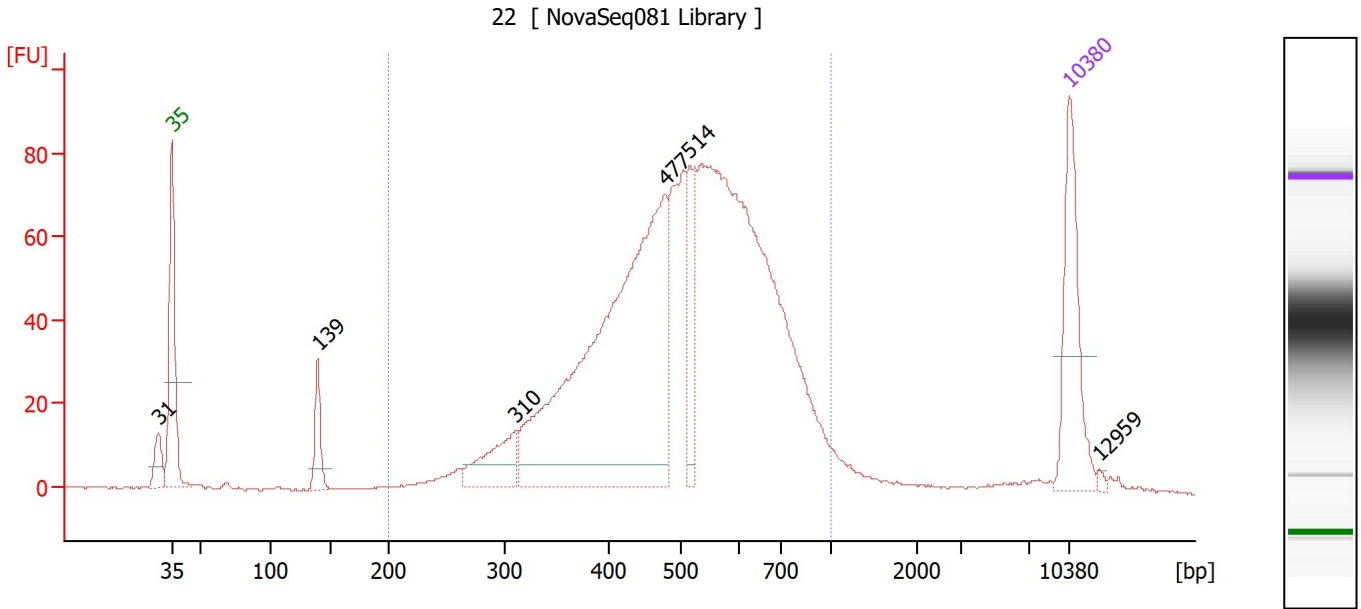
Region table for sample 10 : 21

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	2,604.7	94	546	24.3	3,227.79	9,720.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 22

Number of peaks found: 6 Corr. Area 1: 1,441.7
 Noise: 0.2

Peak table for sample 11 : 22

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	139	39.45	428.8	
4	310	55.38	270.5	
5	477	522.74	1,659.3	
6	514	63.35	186.8	
7	10,380	75.00	10.9	Upper Marker
8	12,959	0.00	0.0	

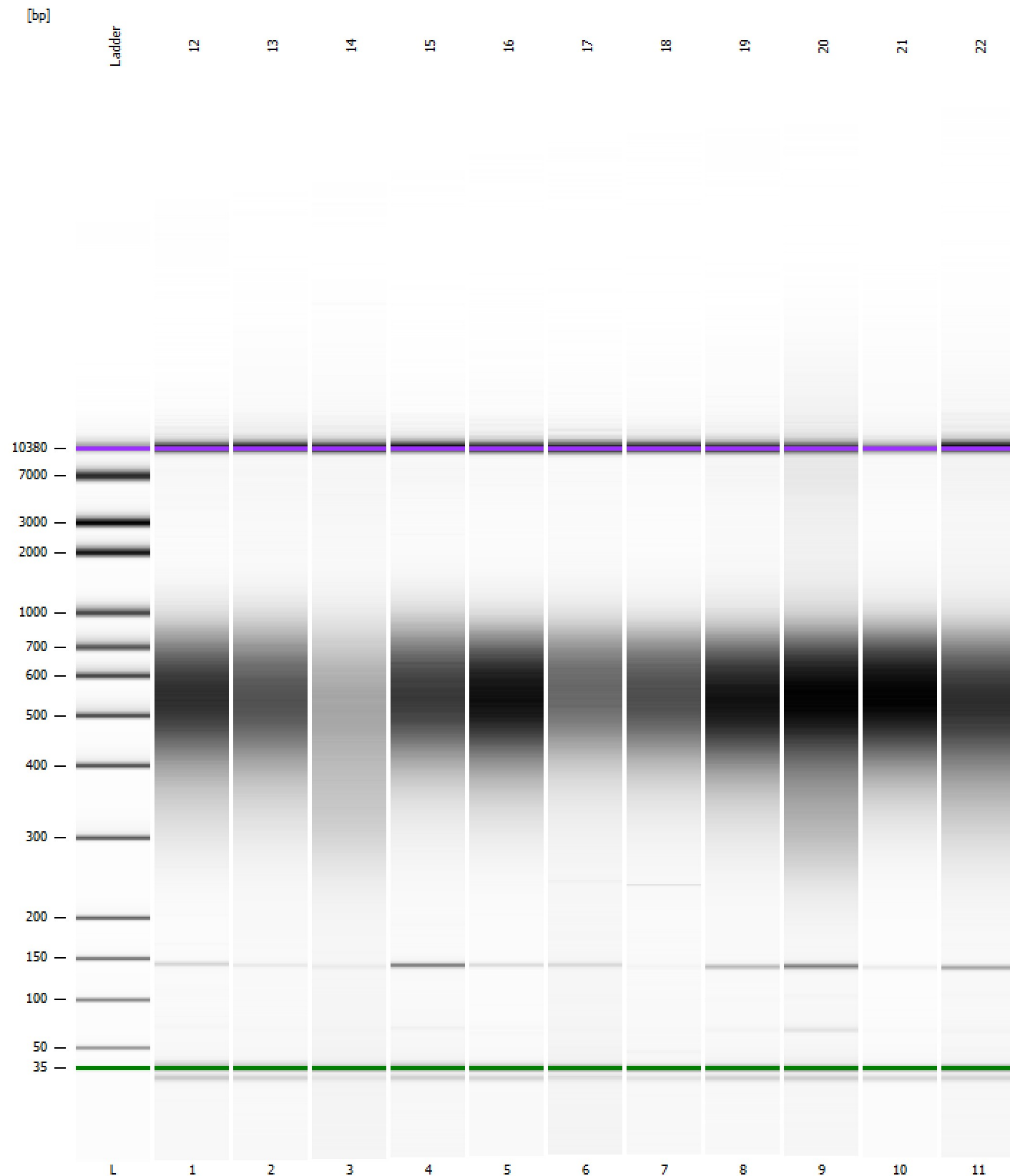
Region table for sample 11 : 22

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	1,441.7	92	519	26.5	1,430.09	4,622.4	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
Modified: 6/15/2020 2:10:27 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-06-15_001.xad

Created: 6/15/2020 1:29:06 PM
 Modified: 6/15/2020 2:10:27 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		6/15/2020 2:10:25 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-06-15\Bioanalyze r1_High Sensitivity DNA Assay_2020-06-15_001.xad)		Instrument	Run		6/15/2020 1:29:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/15/2020 1:29:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/15/2020 1:29:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/15/2020 1:29:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/15/2020 1:29:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/15/2020 1:29:12 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/15/2020 1:29:11 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB