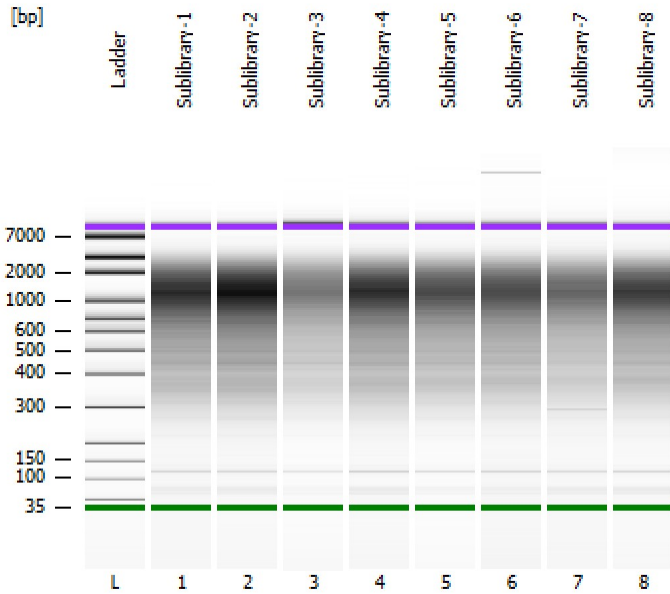


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
Modified: 6/22/2023 11:23:26 AM

Electrophoresis File Run Summary



Instrument Information:

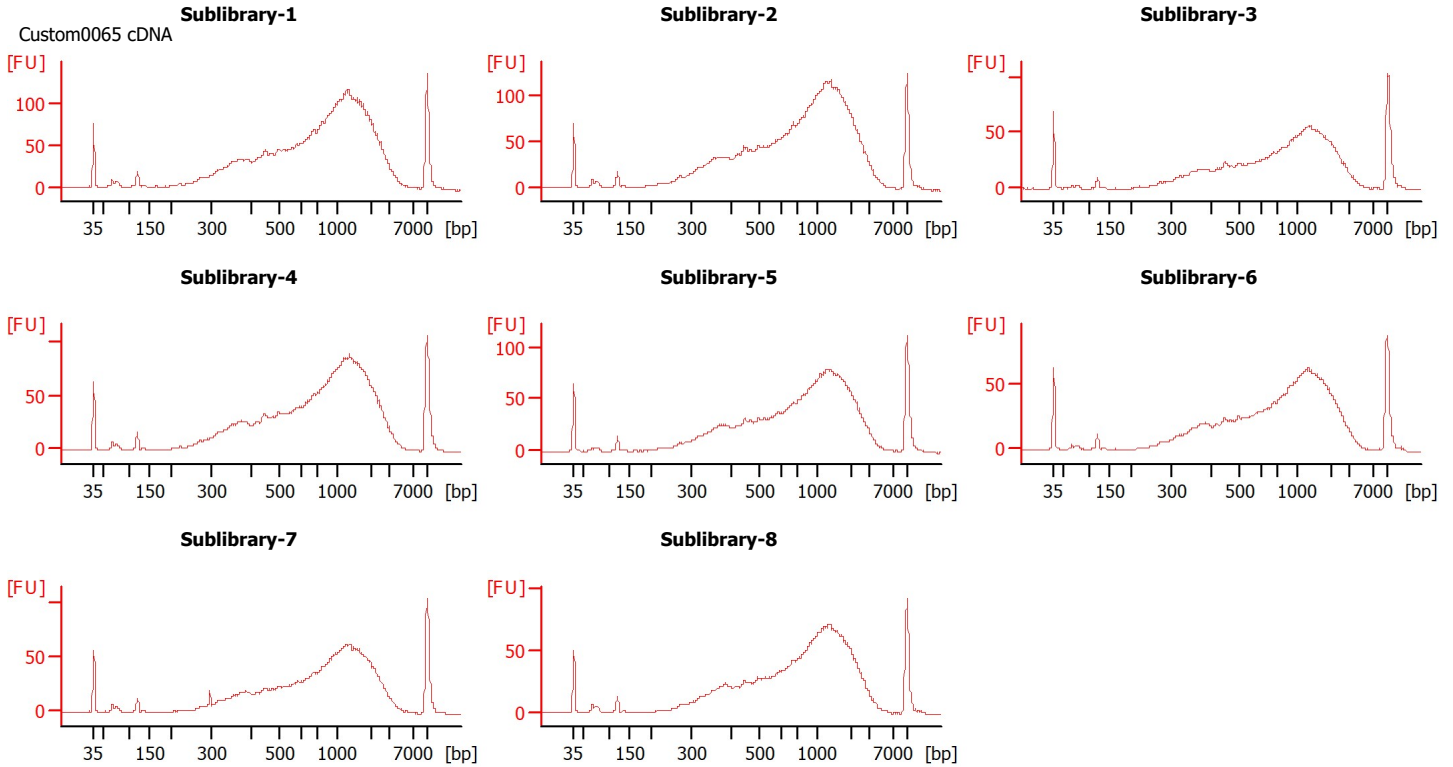
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Sublibrary-1	Custom0065 cDNA	<input type="checkbox"/>	✓			
Sublibrary-2		<input type="checkbox"/>	✓			
Sublibrary-3		<input type="checkbox"/>	✓			
Sublibrary-4		<input type="checkbox"/>	✓			
Sublibrary-5		<input type="checkbox"/>	✓			
Sublibrary-6		<input type="checkbox"/>	✓			
Sublibrary-7		<input type="checkbox"/>	✓			
Sublibrary-8		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 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

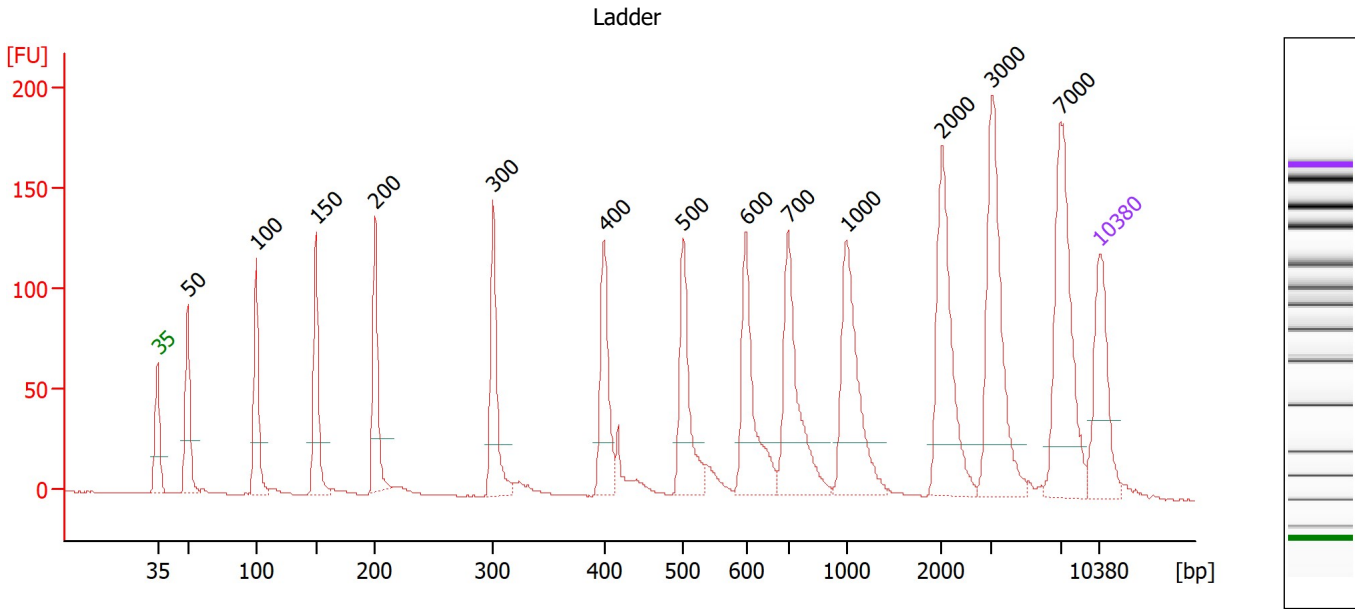
Ladder

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: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

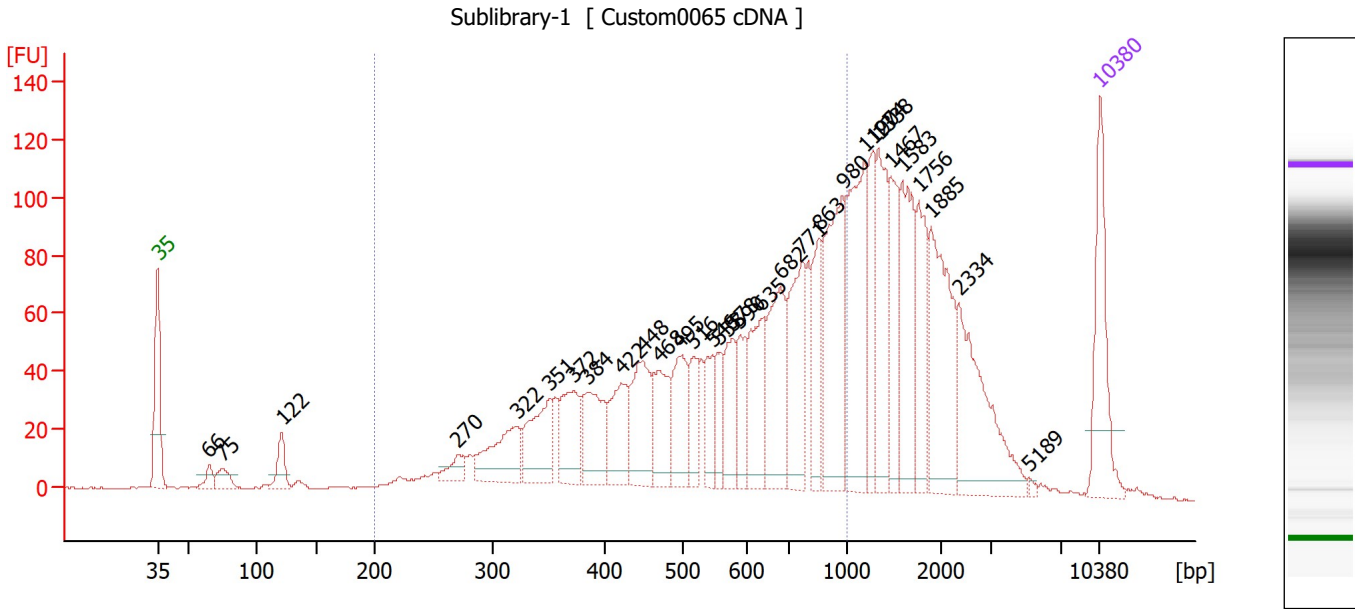
Peak table for Ladder

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: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sublibrary-1

Number of peaks found: 31 Corr. Area 1: 1,600.6
 Noise: 0.3

Peak table for sample 1 : Sublibrary-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	66	14.28	329.1	
3	75	21.44	432.1	
4	122	31.11	387.9	
5	270	20.48	114.9	
6	322	72.13	339.6	
7	351	73.33	316.9	
8	372	63.00	256.5	
9	384	68.88	271.6	
10	422	64.70	232.2	
11	448	77.42	261.6	
12	468	57.74	187.0	
13	495	62.55	191.5	
14	516	35.76	104.9	
15	546	34.81	96.6	
16	558	28.63	77.8	
17	578	46.11	120.8	
18	590	40.12	103.0	
19	635	73.06	174.4	
20	682	99.84	221.9	
21	771	97.79	192.2	
22	863	57.97	101.8	
23	980	137.52	212.7	
24	1,190	140.11	178.4	
25	1,274	53.96	64.2	
26	1,338	88.02	99.6	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...

... Peak table for sample 1 : Sublibrary-1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	1,467	55.58	57.4	
28	1,583	94.04	90.0	
29	1,756	62.86	54.2	
30	1,885	115.58	92.9	
31	2,334	110.76	71.9	
32	5,189	2.12	0.6	
33	10,380	75.00	10.9	Upper Marker

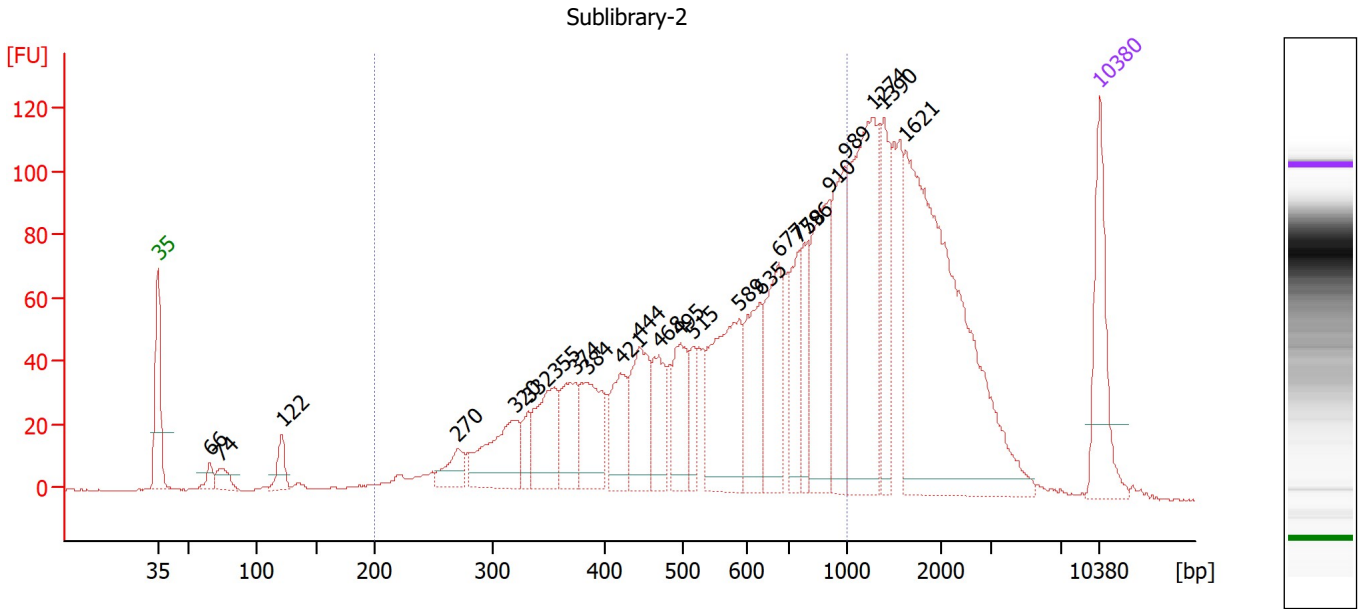
Region table for sample 1 : Sublibrary-1

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	1,600.6	59	585	34.9	1,477.29	4,631.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sublibrary-2

Number of peaks found: 24 Corr. Area 1: 1,616.9
 Noise: 0.3

Peak table for sample 2 : Sublibrary-2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	66	13.92	318.7	
3	74	21.54	442.1	
4	122	28.37	353.7	
5	270	31.30	175.7	
6	320	90.61	428.8	
7	332	23.94	109.3	
8	355	80.48	343.5	
9	374	60.76	246.3	
10	384	79.20	312.7	
11	421	60.74	218.8	
12	444	81.35	277.7	
13	468	54.50	176.5	
14	495	64.88	198.6	
15	515	29.80	87.6	
16	589	145.36	373.9	
17	635	82.20	196.2	
18	677	92.84	207.7	
19	758	60.38	120.7	
20	796	46.85	89.2	
21	910	121.60	202.4	
22	989	105.36	161.4	
23	1,274	213.50	253.9	
24	1,390	68.54	74.7	
25	1,621	384.43	359.3	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...

... Region table for sample 2 :

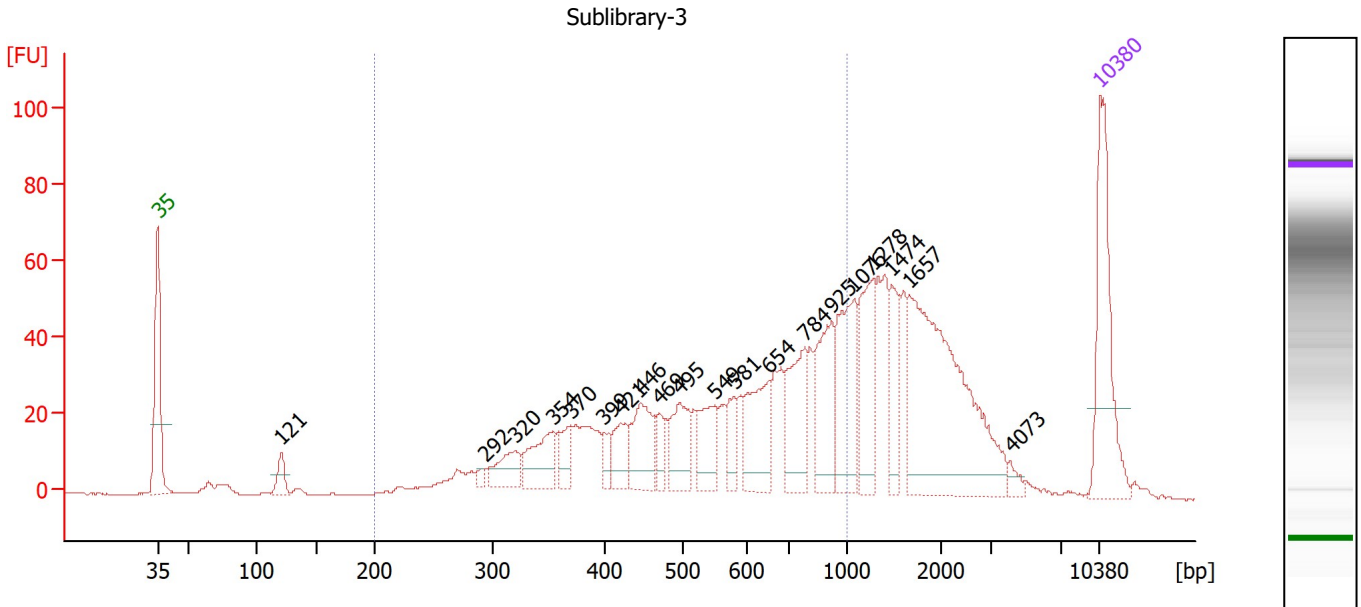
Sublibrary-2

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	1,616.9	60	584	35.0	1,494.30	4,703.8	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sublibrary-3

Number of peaks found: 20 Corr. Area 1: 761.3
 Noise: 0.2

Peak table for sample 3 : Sublibrary-3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	17.72	222.0	
3	292	4.60	23.9	
4	320	28.47	134.9	
5	354	41.36	177.0	
6	370	20.73	85.0	
7	399	11.32	42.9	
8	421	25.16	90.5	
9	446	48.41	164.3	
10	469	16.44	53.1	
11	495	42.02	128.6	
12	549	35.64	98.4	
13	581	19.95	52.1	
14	654	55.16	127.8	
15	784	55.35	107.0	
16	925	56.01	91.7	
17	1,076	70.57	99.4	
18	1,278	55.36	65.6	
19	1,474	31.40	32.3	
20	1,657	183.83	168.1	
21	4,073	5.65	2.1	
22	10,380	75.00	10.9	Upper Marker

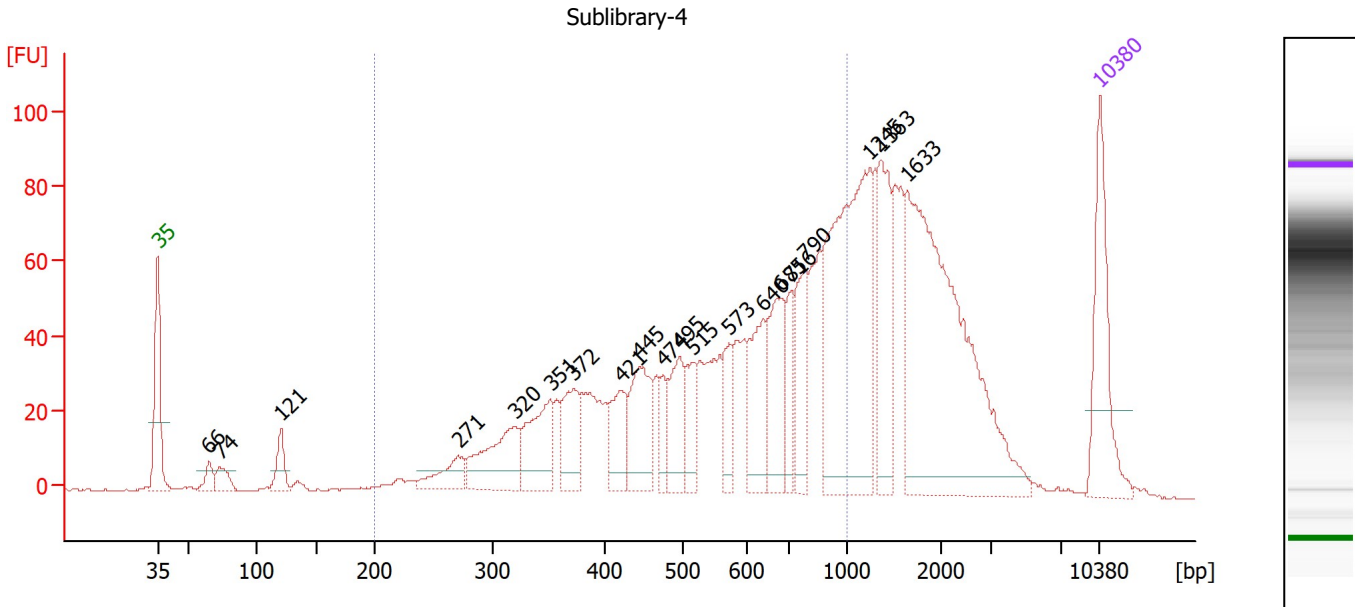
Region table for sample 3 : Sublibrary-3

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	761.3	59	584	34.6	742.94	2,313.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sublibrary-4

Number of peaks found: 20 Corr. Area 1: 1,191.9
 Noise: 0.2

Peak table for sample 4 : Sublibrary-4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	66	14.68	338.4	
3	74	19.17	395.0	
4	121	27.50	345.0	
5	271	32.82	183.8	
6	320	77.57	367.6	
7	351	70.00	301.8	
8	372	55.53	225.9	
9	421	45.89	165.2	
10	445	72.51	247.1	
11	474	22.84	73.0	
12	495	51.13	156.4	
13	515	32.13	94.5	
14	573	31.43	83.2	
15	640	63.90	151.3	
16	685	76.66	169.6	
17	716	33.77	71.5	
18	790	56.44	108.2	
19	1,245	247.06	300.8	
20	1,363	86.21	95.8	
21	1,633	308.16	285.9	
22	10,380	75.00	10.9	Upper Marker

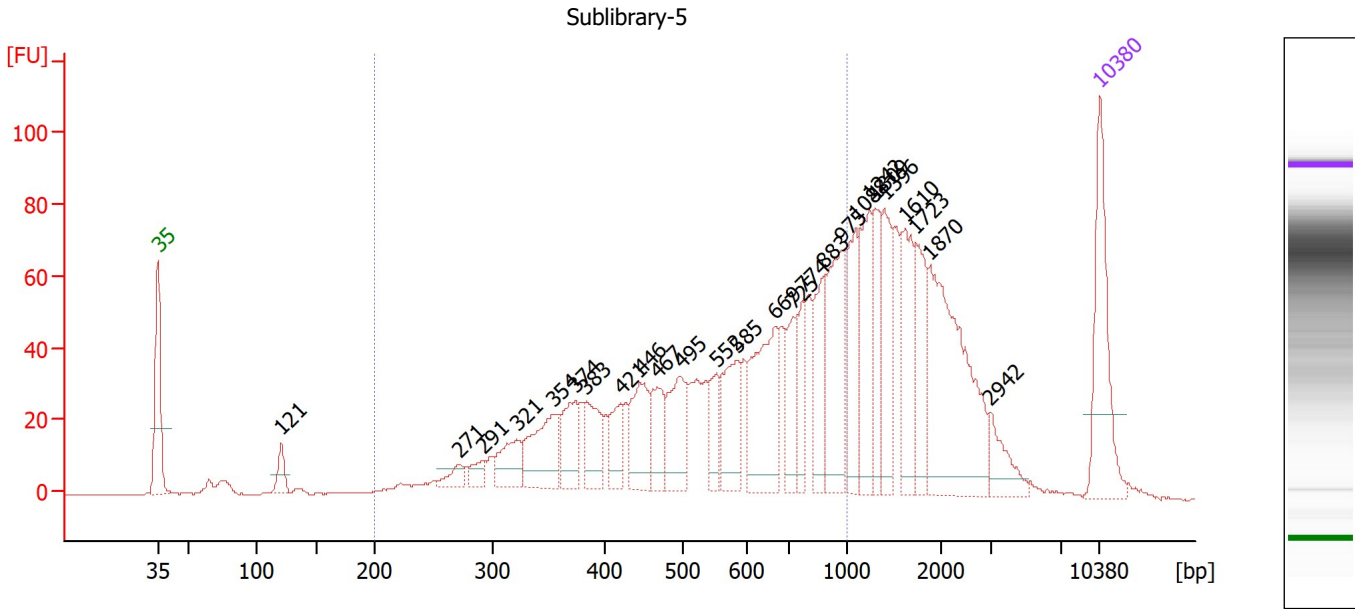
Region table for sample 4 : Sublibrary-4

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	1,191.9	59	585	34.9	1,186.00	3,714.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sublibrary-5

Number of peaks found: 26 Corr. Area 1: 1,080.3
 Noise: 0.2

Peak table for sample 5 : Sublibrary-5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	20.94	261.6	
3	271	14.32	80.2	
4	291	13.84	72.0	
5	321	37.61	177.5	
6	354	65.64	281.1	
7	374	42.01	170.2	
8	383	42.06	166.4	
9	421	29.97	107.7	
10	446	55.65	189.2	
11	467	37.51	121.6	
12	495	58.87	180.0	
13	552	26.94	73.9	
14	585	56.08	145.2	
15	669	97.41	220.6	
16	725	37.48	78.3	
17	774	32.02	62.7	
18	883	45.92	78.8	
19	975	85.25	132.5	
20	1,088	55.59	77.4	
21	1,242	64.20	78.3	
22	1,309	40.49	46.9	
23	1,396	56.79	61.7	
24	1,610	58.95	55.5	
25	1,723	46.78	41.1	
26	1,870	151.22	122.5	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...

... Peak table for sample 5 : Sublibrary-5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,942	25.79	13.3	
28	10,380	75.00	10.9	Upper Marker

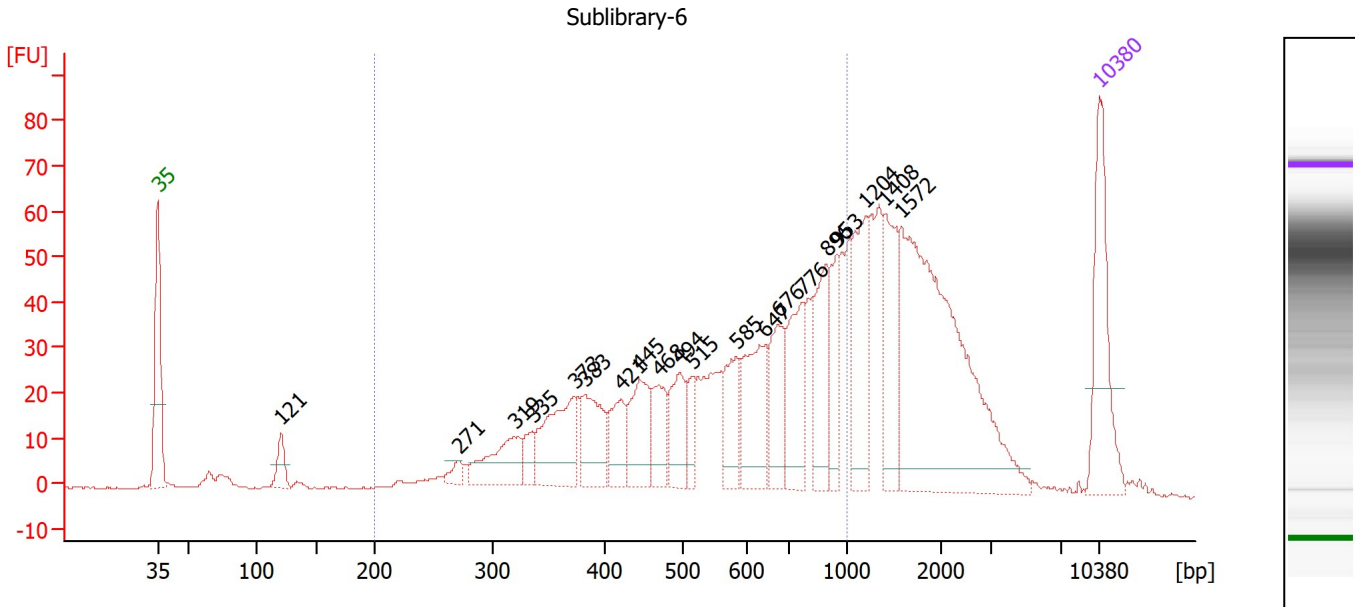
Region table for sample 5 : Sublibrary-5

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	1,080.3	60	585	34.7	1,075.09	3,352.4	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sublibrary-6

Number of peaks found: 20 Corr. Area 1: 824.5
 Noise: 0.2

Peak table for sample 6 : Sublibrary-6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	121	22.67	283.8	
3	271	10.45	58.4	
4	319	54.18	257.4	
5	335	17.32	78.2	
6	373	82.57	335.1	
7	383	54.40	215.4	
8	421	35.62	128.2	
9	445	55.67	189.7	
10	468	38.74	125.3	
11	494	47.31	145.2	
12	515	21.19	62.3	
13	585	44.00	114.0	
14	647	76.13	178.3	
15	676	54.53	122.2	
16	776	62.52	122.1	
17	896	62.07	104.9	
18	953	36.83	58.6	
19	1,204	76.20	95.9	
20	1,408	63.52	68.3	
21	1,572	284.54	274.3	
22	10,380	75.00	10.9	Upper Marker

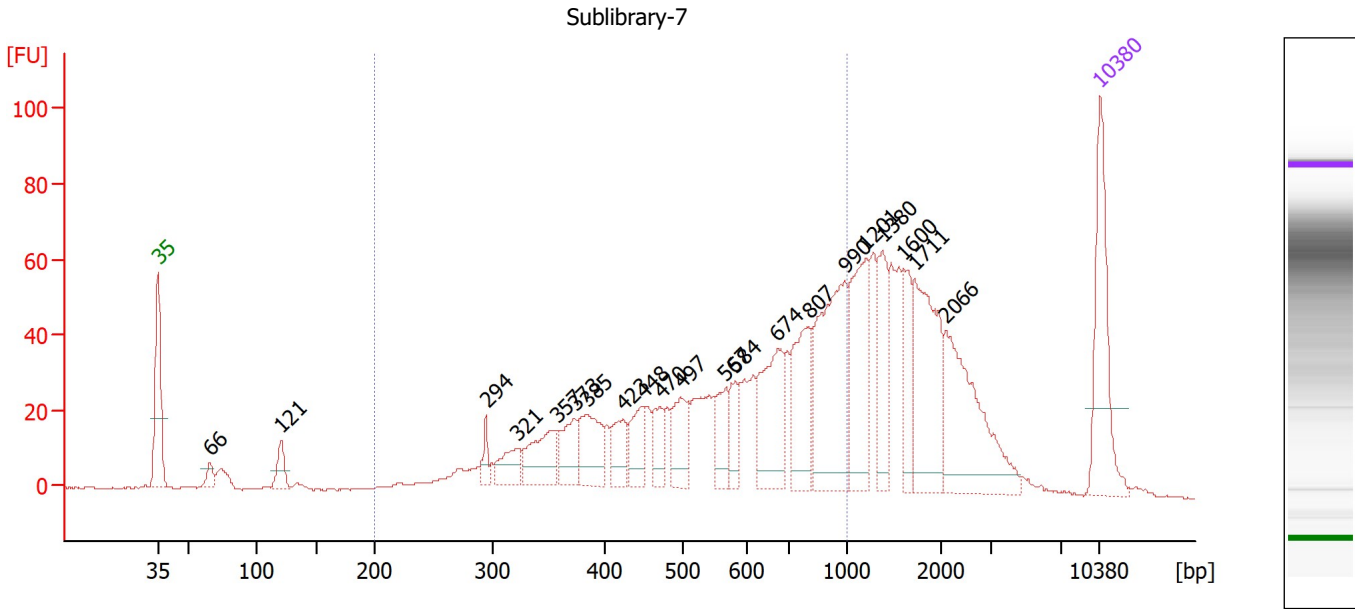
Region table for sample 6 : Sublibrary-6

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	824.5	59	589	34.2	972.76	2,992.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sublibrary-7

Number of peaks found: 21 Corr. Area 1: 831.5
 Noise: 0.2

Peak table for sample 7 : Sublibrary-7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	66	12.35	283.5	
3	121	23.95	299.4	
4	294	12.36	63.6	
5	321	27.08	127.8	
6	357	50.09	212.7	
7	373	35.43	144.0	
8	385	52.34	206.2	
9	423	29.85	106.9	
10	448	33.41	113.0	
11	470	25.32	81.5	
12	497	43.74	133.3	
13	567	32.06	85.7	
14	584	26.03	67.6	
15	674	82.16	184.6	
16	807	68.50	128.6	
17	990	134.59	205.9	
18	1,201	85.18	107.5	
19	1,380	47.68	52.4	
20	1,600	35.12	33.2	
21	1,711	100.46	89.0	
22	2,066	105.39	77.3	
23	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...

... Region table for sample 7 :

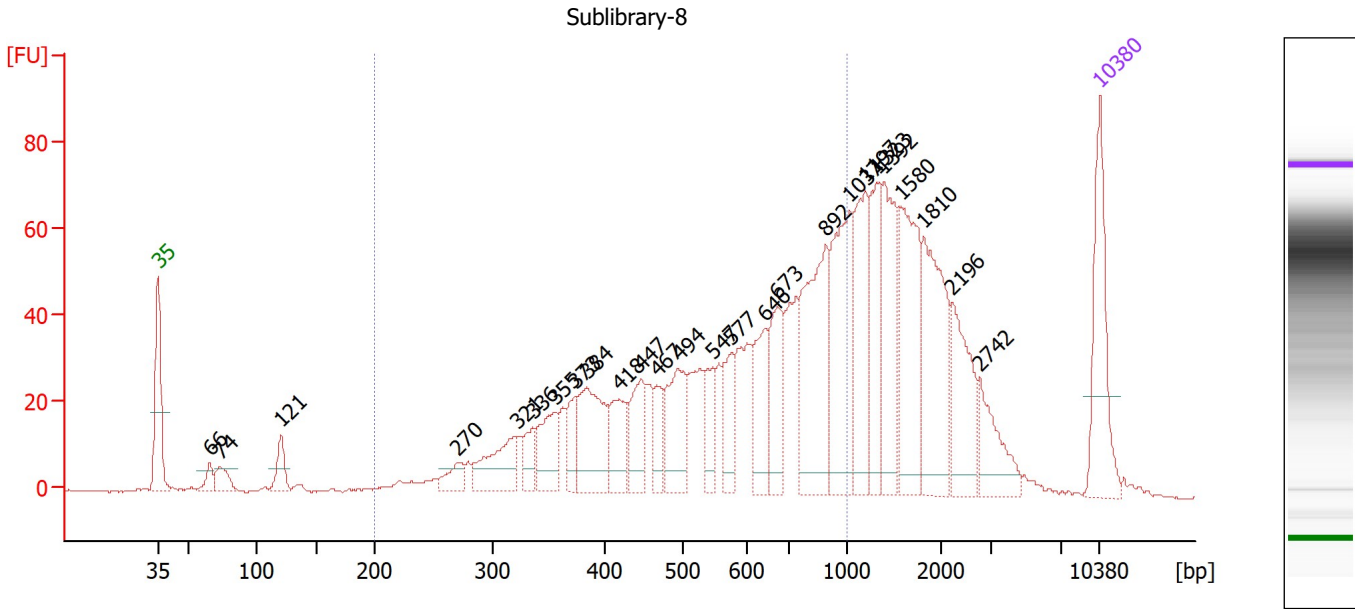
Sublibrary-7

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	831.5	58	591	34.5	936.67	2,892.5	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sublibrary-8

Number of peaks found: 26 Corr. Area 1: 905.2
 Noise: 0.2

Peak table for sample 8 : Sublibrary-8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	66	16.57	380.9	
3	74	23.24	477.7	
4	121	27.71	346.7	
5	270	20.10	112.8	
6	321	60.04	283.1	
7	336	22.07	99.6	
8	355	49.89	213.0	
9	373	30.87	125.3	
10	384	86.06	339.4	
11	418	47.22	171.1	
12	447	49.11	166.6	
13	467	28.35	92.0	
14	494	71.11	218.3	
15	547	32.26	89.3	
16	577	38.14	100.2	
17	646	57.47	134.7	
18	673	62.97	141.7	
19	892	138.67	235.6	
20	1,037	122.38	178.7	
21	1,197	83.59	105.8	
22	1,323	66.45	76.1	
23	1,392	88.86	96.7	
24	1,580	110.29	105.8	
25	1,810	106.00	88.7	
26	2,196	66.38	45.8	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

Electropherogram Summary Continued ...

... Peak table for sample 8 : Sublibrary-8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	2,742	42.03	23.2	
28	10,380	75.00	10.9	Upper Marker

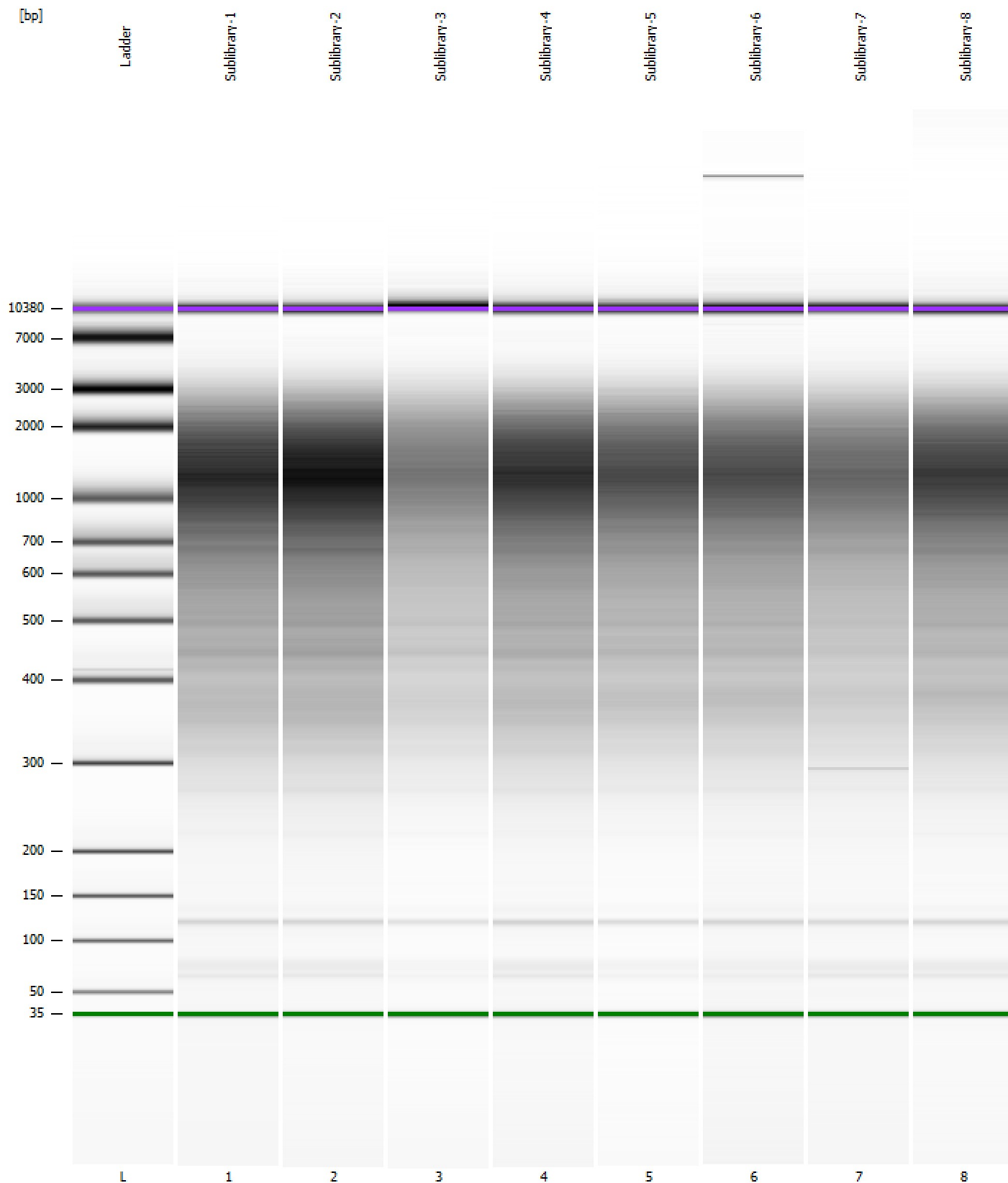
Region table for sample 8 : Sublibrary-8

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	905.2	59	594	34.1	1,153.81	3,522.4	■

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
Modified: 6/22/2023 11:23:26 AM

Gel Image

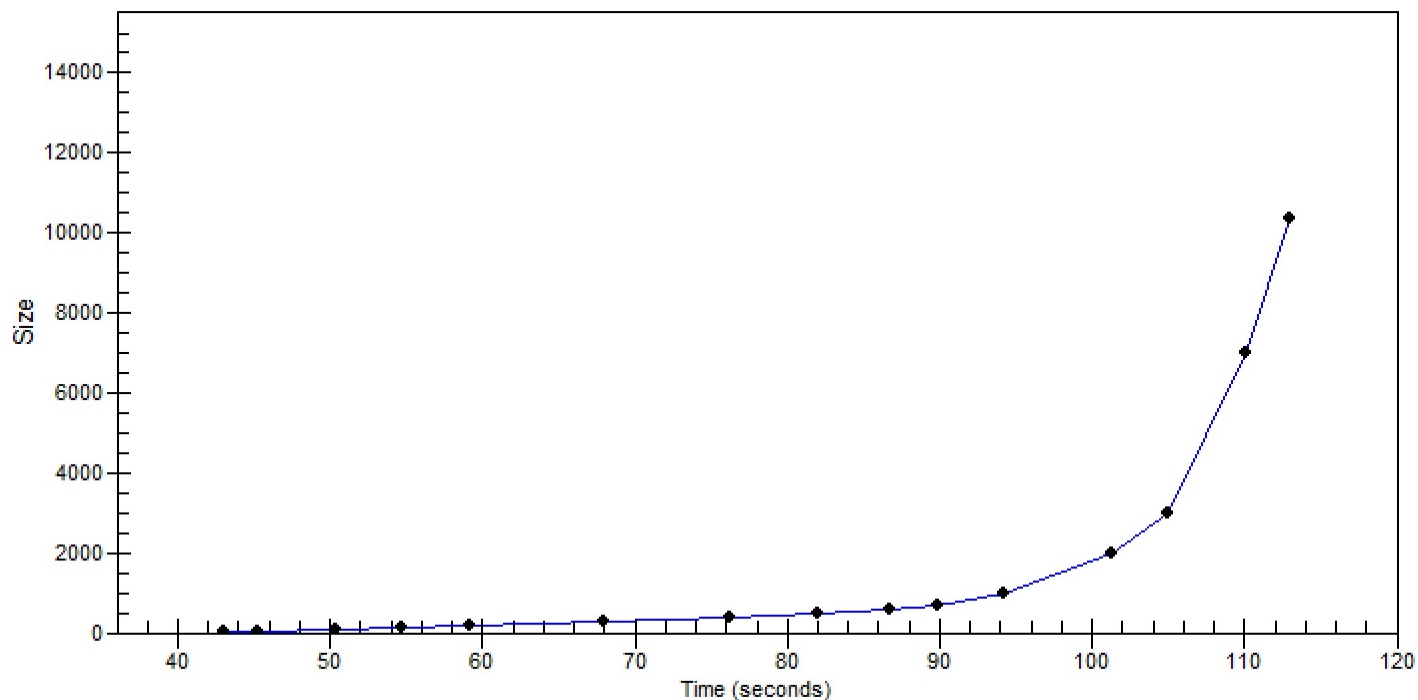


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
Modified: 6/22/2023 11:23:26 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...gh Sensitivity DNA Assay_2023-06-22_001-CUSTOM0065 cDNA.xad

Created: 6/22/2023 10:36:18 AM
 Modified: 6/22/2023 11:23:26 AM

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		6/22/2023 11:17:37 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: C:\Users\sbsuser\Desktop\2023-06-22\Bioanalyzer1_High Sensitivity DNA Assay_2023-06-22_001.xad)		Instrument	Run		6/22/2023 10:36:24 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/22/2023 10:36:24 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/22/2023 10:36:24 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/22/2023 10:36:24 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/22/2023 10:36:24 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/22/2023 10:36:24 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/22/2023 10:36:24 AM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB