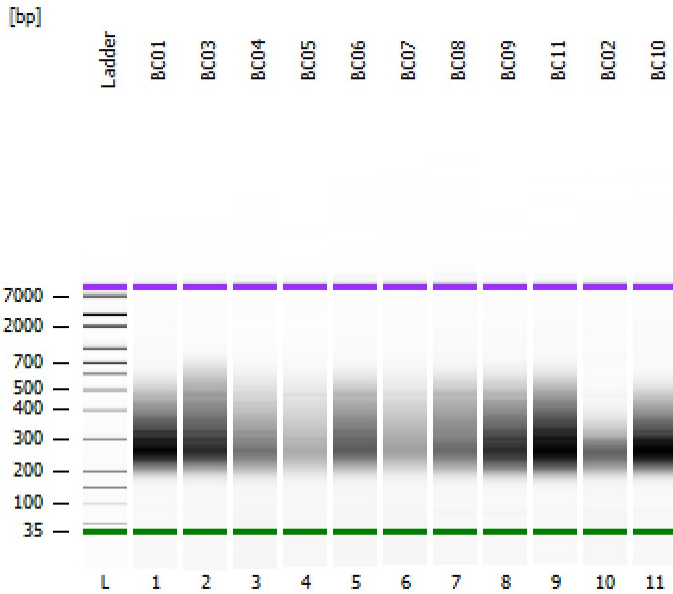


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
Modified: 9/16/2020 5:30:15 PM

Electrophoresis File Run Summary



Instrument Information:

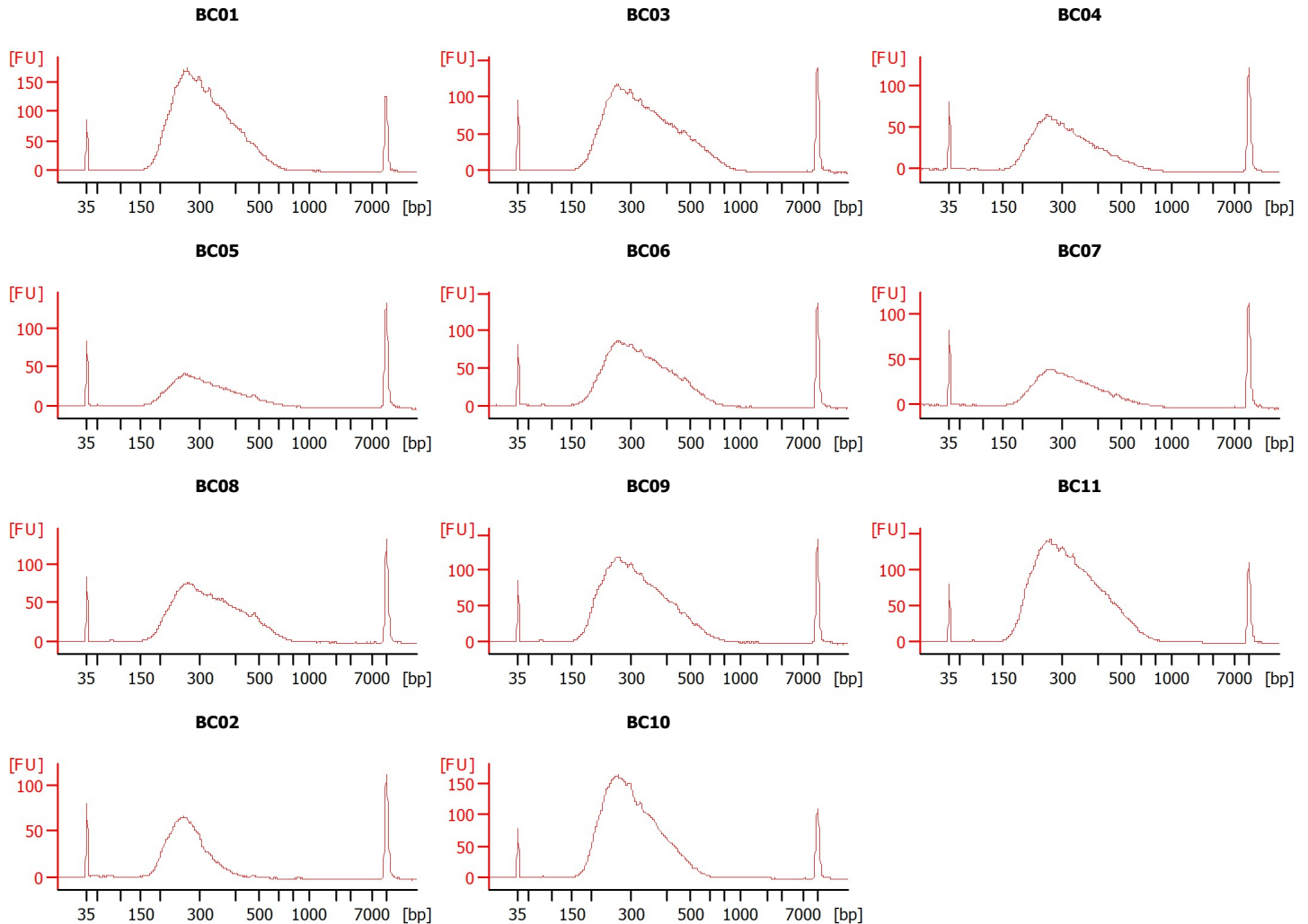
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BC01		<input type="checkbox"/>	✓			
BC03		<input type="checkbox"/>	✓			
BC04		<input type="checkbox"/>	✓			
BC05		<input type="checkbox"/>	✓			
BC06		<input type="checkbox"/>	✓			
BC07		<input type="checkbox"/>	✓			
BC08		<input type="checkbox"/>	✓			
BC09		<input type="checkbox"/>	✓			
BC11		<input type="checkbox"/>	✓			
BC02		<input type="checkbox"/>	✓			
BC10		<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_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 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

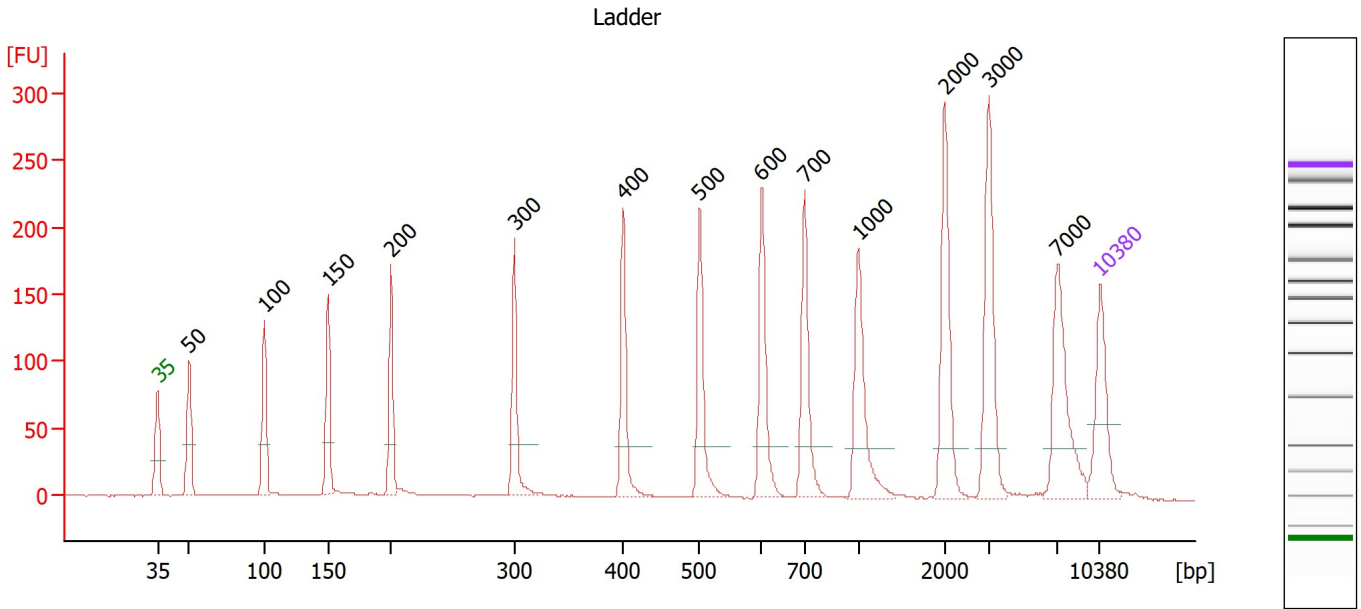
Ladder

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_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

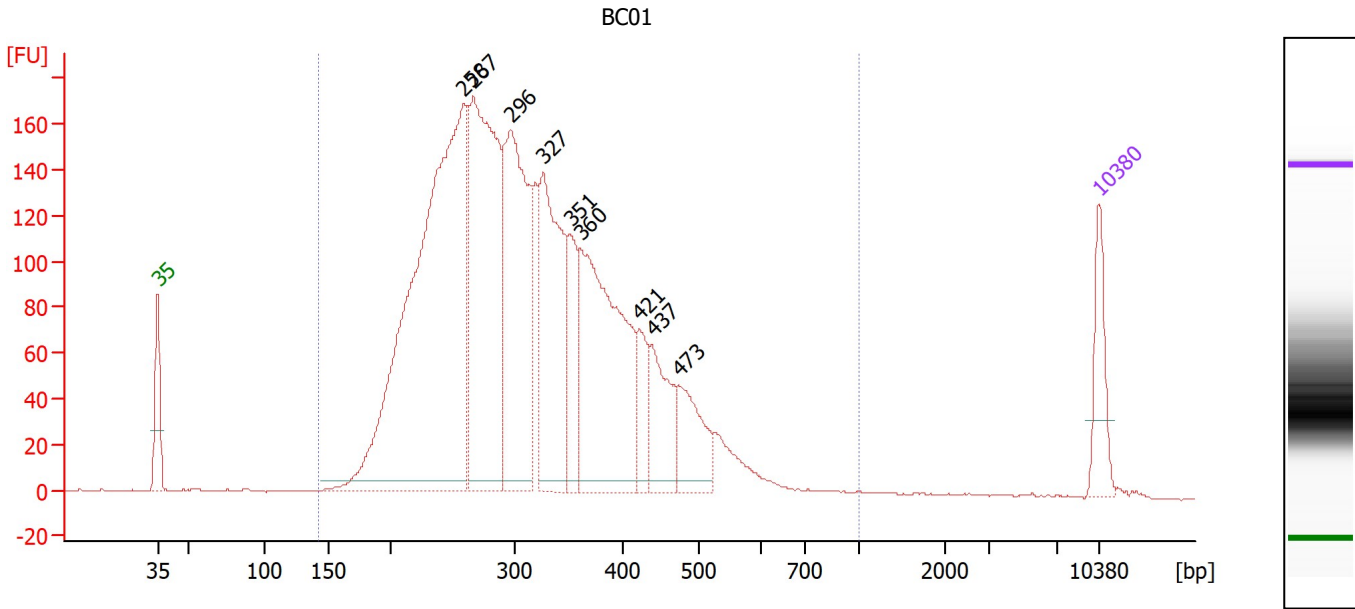
Peak table for Ladder

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_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BC01

Number of peaks found: 9 Corr. Area 1: 3,897.0
 Noise: 0.4

Peak table for sample 1 : BC01

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	258	1,394.02	8,172.4	
3	267	712.70	4,046.5	
4	296	551.92	2,822.4	
5	327	395.96	1,836.5	
6	351	142.83	616.6	
7	360	540.86	2,273.3	
8	421	82.33	296.5	
9	437	146.60	508.3	
10	473	123.58	396.0	
11	10,380	75.00	10.9	Upper Marker

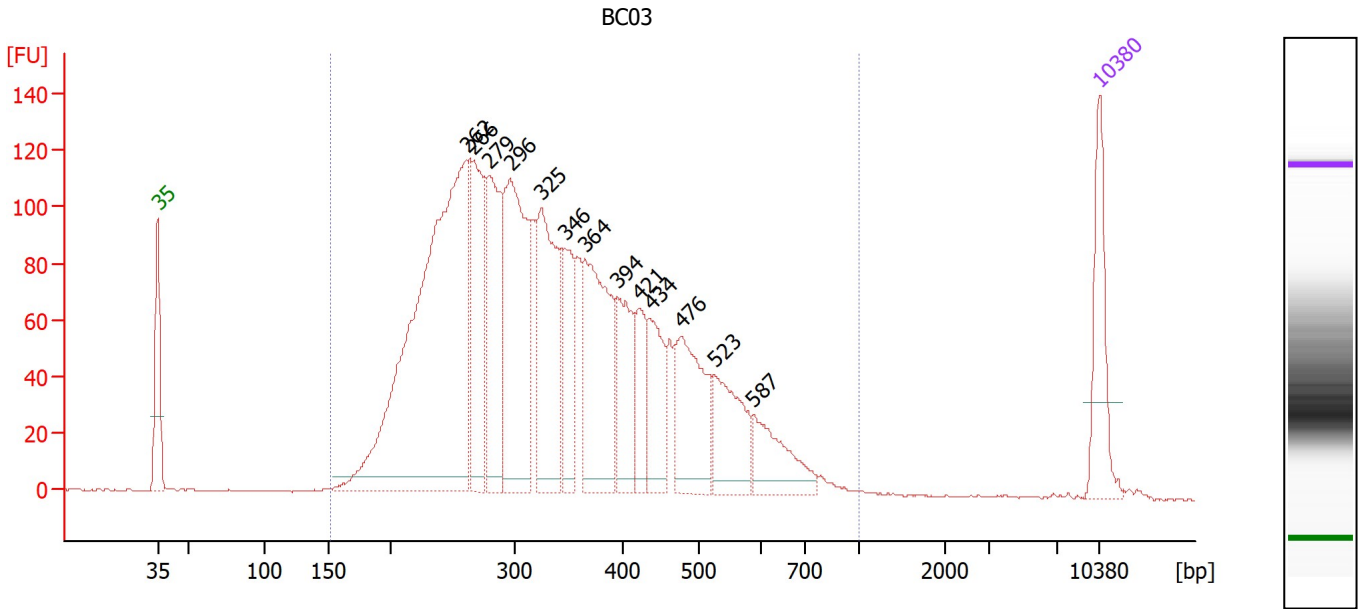
Region table for sample 1 : BC01

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
143	1,000	3,897.0	99	320	28.1	4,448.02	23,115.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BC03

Number of peaks found: 13 Corr. Area 1: 3,067.2
 Noise: 0.3

Peak table for sample 2 : BC03

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	262	840.00	4,863.0	
3	266	195.96	1,116.2	
4	279	197.47	1,073.1	
5	296	314.39	1,606.7	
6	325	218.23	1,017.4	
7	346	98.84	433.4	
8	364	232.69	967.9	
9	394	107.28	412.8	
10	421	64.38	231.9	
11	434	96.52	336.6	
12	476	141.76	451.1	
13	523	108.99	315.8	
14	587	78.12	201.7	
15	10,380	75.00	10.9	Upper Marker

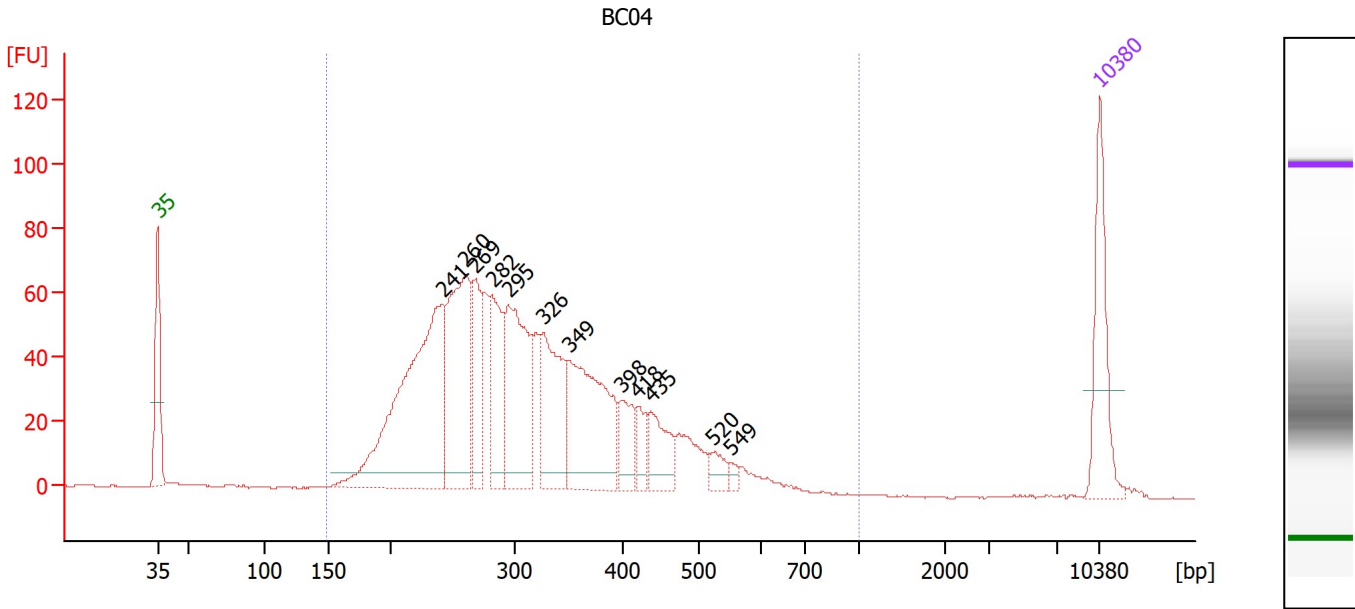
Region table for sample 2 : BC03

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
152	1,000	3,067.2	99	350	33.0	3,003.84	14,869.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BC04

Number of peaks found: 12 Corr. Area 1: 1,485.2
 Noise: 0.3

Peak table for sample 3 : BC04

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	241	390.23	2,450.7	
3	260	219.19	1,275.6	
4	269	84.08	474.4	
5	282	103.26	555.5	
6	295	183.40	942.8	
7	326	130.47	606.2	
8	349	191.48	831.5	
9	398	43.97	167.3	
10	418	27.15	98.5	
11	435	49.85	173.4	
12	520	18.45	53.8	
13	549	6.66	18.4	
14	10,380	75.00	10.9	Upper Marker

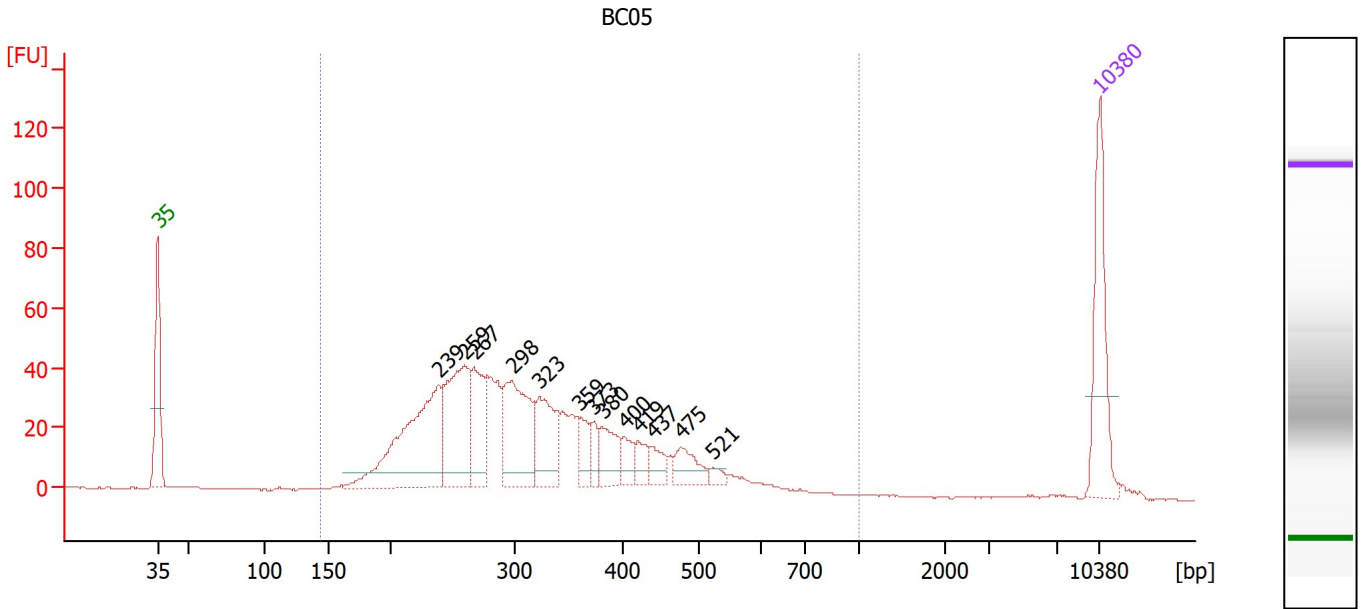
Region table for sample 3 : BC04

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
149	1,000	1,485.2	99	319	29.0	1,666.54	8,774.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BC05

Number of peaks found: 13 Corr. Area 1: 939.7
 Noise: 0.3

Peak table for sample 4 : BC05

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	239	210.32	1,335.8	
3	259	138.00	806.8	
4	267	73.00	413.5	
5	298	122.08	620.5	
6	323	75.40	353.7	
7	359	26.10	110.0	
8	373	18.11	73.6	
9	380	38.24	152.4	
10	400	18.66	70.6	
11	419	17.38	62.8	
12	437	17.93	62.1	
13	475	28.54	91.0	
14	521	6.80	19.8	
15	10,380	75.00	10.9	Upper Marker

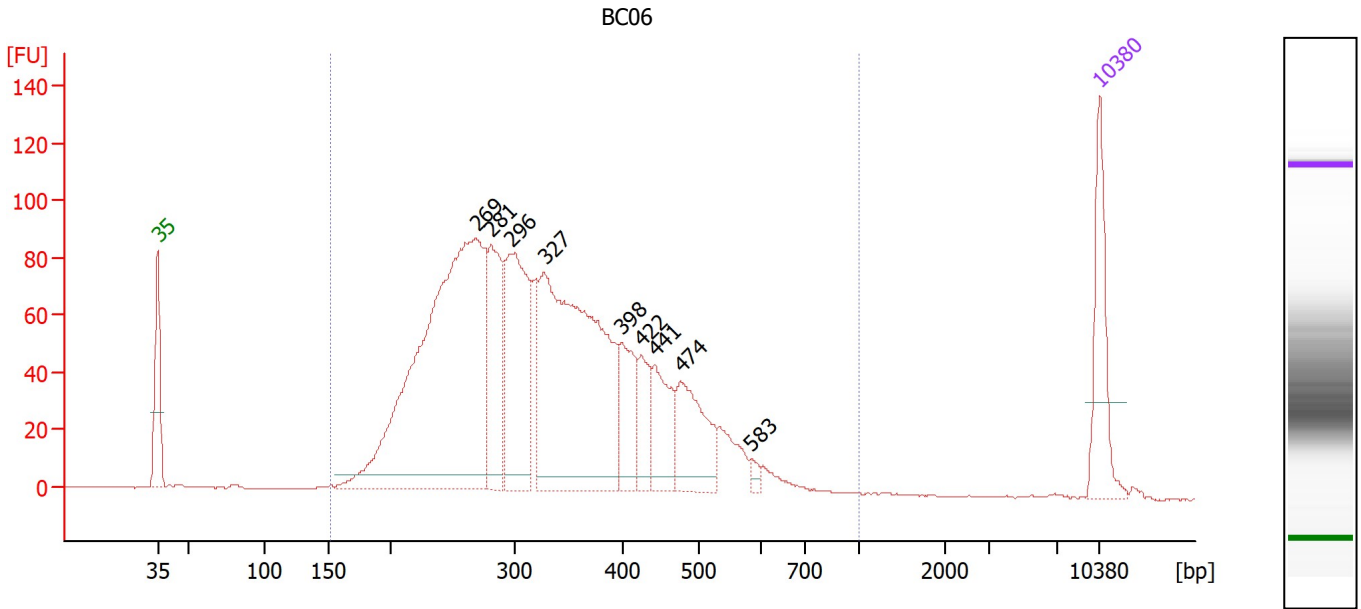
Region table for sample 4 : BC05

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
145	1,000	939.7	99	323	29.5	1,018.12	5,311.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BC06

Number of peaks found: 9 Corr. Area 1: 2,150.8
 Noise: 0.2

Peak table for sample 5 : BC06

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	269	779.73	4,393.8	
3	281	147.19	792.4	
4	296	233.09	1,192.0	
5	327	534.39	2,473.3	
6	398	81.94	312.2	
7	422	52.19	187.2	
8	441	78.96	271.3	
9	474	107.02	341.9	
10	583	8.35	21.7	
11	10,380	75.00	10.9	Upper Marker

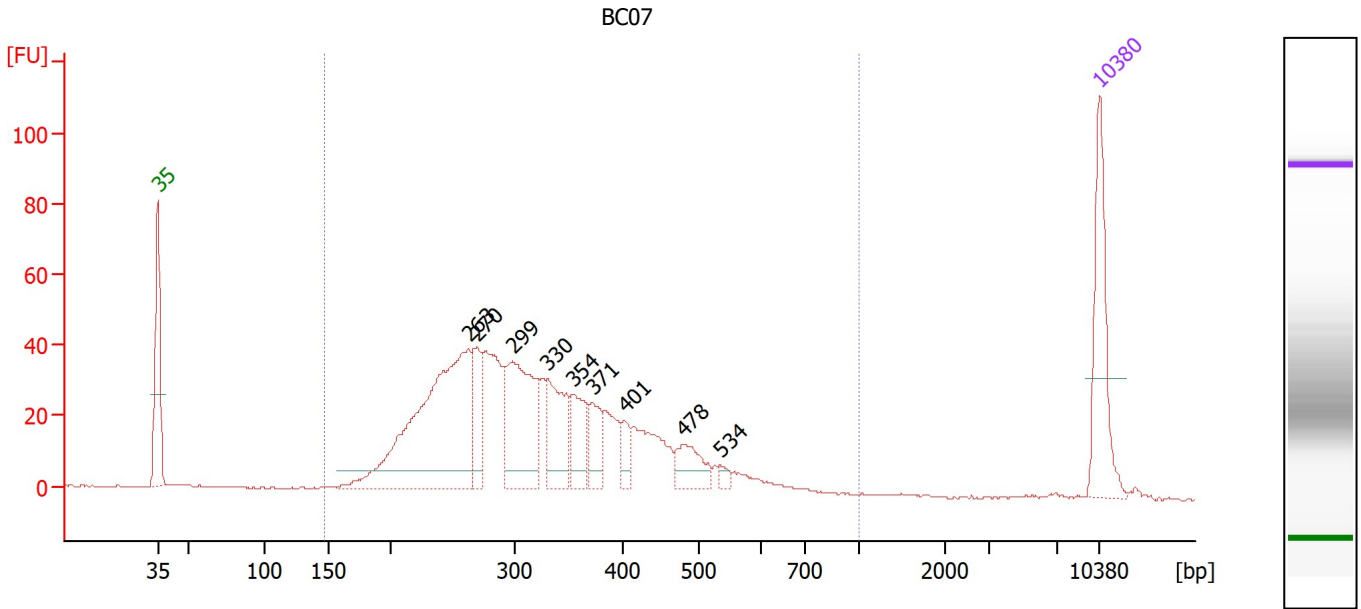
Region table for sample 5 : BC06

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
152	1,000	2,150.8	99	336	28.8	2,165.38	10,861.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : BC07

Number of peaks found: 9 Corr. Area 1: 910.7
 Noise: 0.2

Peak table for sample 6 : BC07

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	337.96	1,946.1	
3	270	55.39	311.4	
4	299	150.67	764.2	
5	330	77.94	357.6	
6	354	50.48	216.1	
7	371	35.08	143.2	
8	401	19.14	72.3	
9	478	36.82	116.8	
10	534	6.69	19.0	
11	10,380	75.00	10.9	Upper Marker

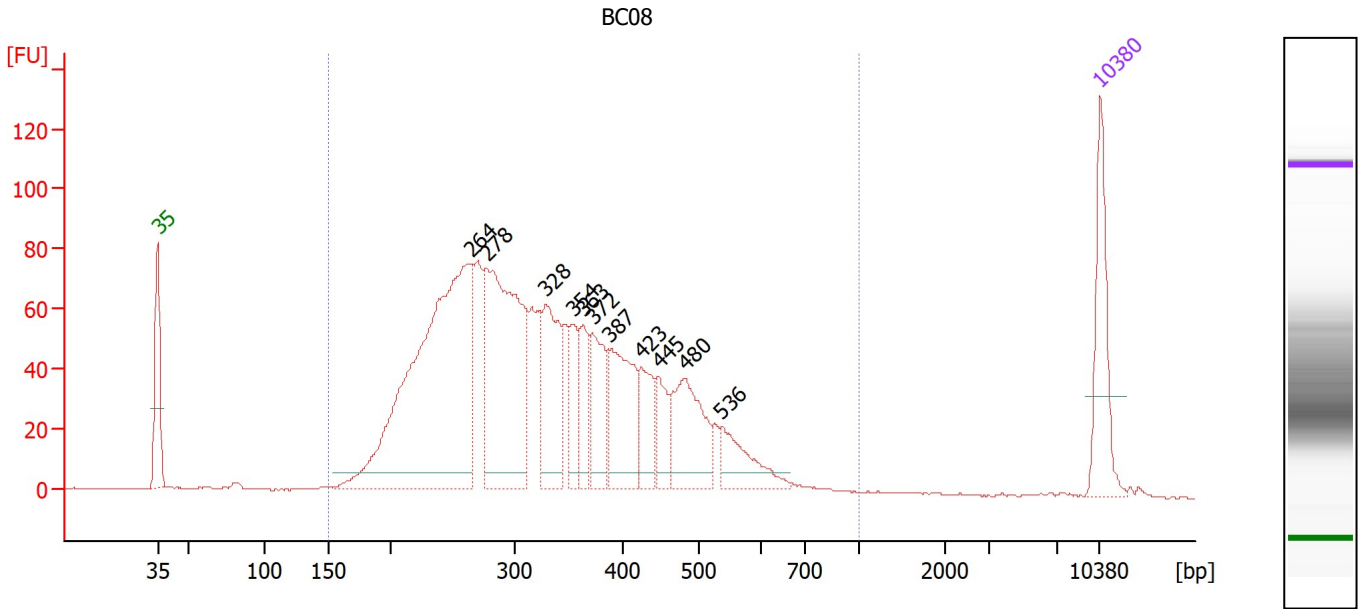
Region table for sample 6 : BC07

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
147	1,000	910.7	99	328	28.7	1,103.91	5,642.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BC08

Number of peaks found: 11 Corr. Area 1: 1,898.8
 Noise: 0.2

Peak table for sample 7 : BC08

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	264	637.29	3,651.1	
3	278	364.09	1,987.7	
4	328	130.35	601.7	
5	354	53.31	228.3	
6	363	55.34	230.9	
7	372	85.73	349.3	
8	387	125.18	490.6	
9	423	59.70	213.8	
10	445	43.32	147.4	
11	480	113.17	357.3	
12	536	57.71	163.3	
13	10,380	75.00	10.9	Upper Marker

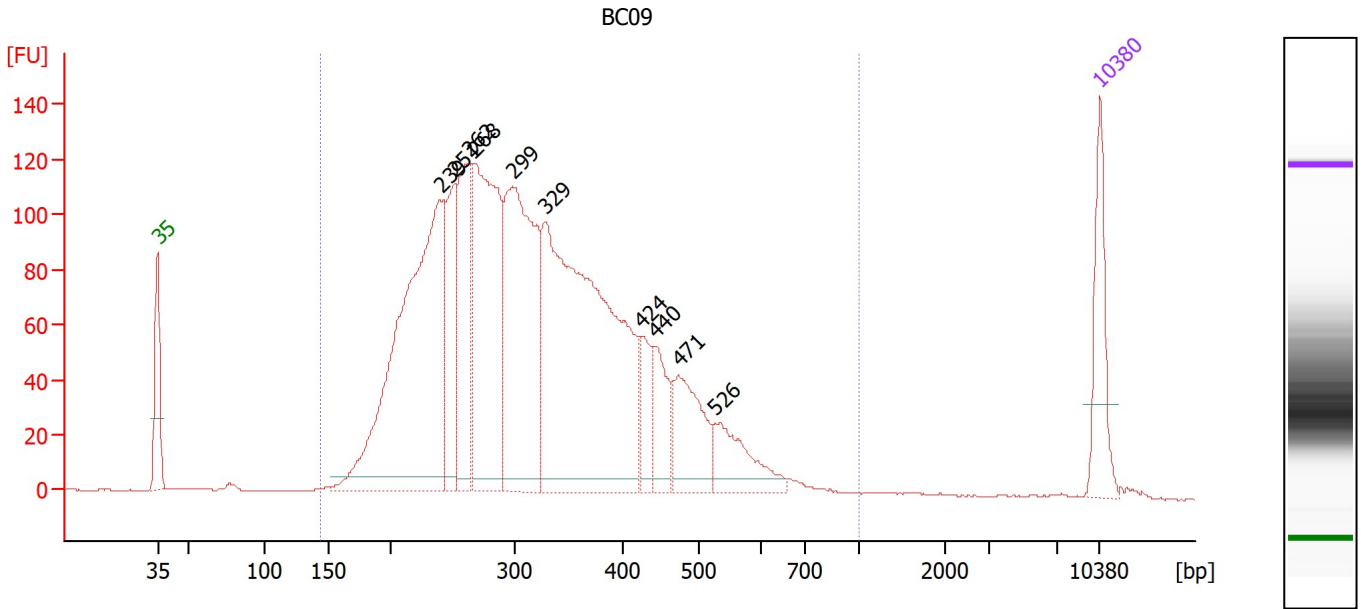
Region table for sample 7 : BC08

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
150	1,000	1,898.8	99	339	30.7	2,077.44	10,456.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : BC09

Number of peaks found: 10 Corr. Area 1: 2,891.9
 Noise: 0.3

Peak table for sample 8 : BC09

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	239	686.91	4,346.3	
3	251	160.86	971.5	
4	262	198.93	1,149.3	
5	268	422.14	2,389.6	
6	299	426.94	2,164.5	
7	329	763.83	3,523.0	
8	424	56.66	202.6	
9	440	68.81	236.8	
10	471	117.31	377.0	
11	526	84.61	243.8	
12	10,380	75.00	10.9	Upper Marker

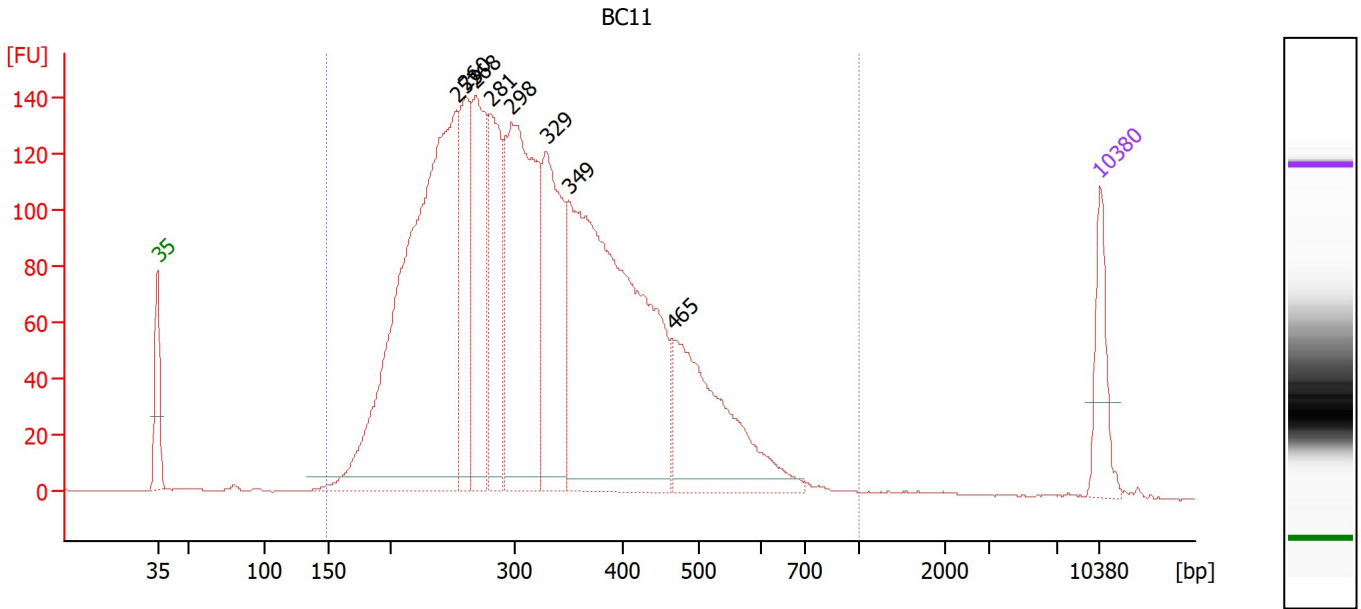
Region table for sample 8 : BC09

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
145	1,000	2,891.9	99	327	30.2	3,042.09	15,778.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BC11

Number of peaks found: 8 Corr. Area 1: 3,558.0
 Noise: 0.2

Peak table for sample 9 : BC11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	253	1,274.30	7,621.3	
3	260	245.76	1,432.2	
4	268	328.20	1,852.1	
5	281	248.05	1,339.3	
6	298	614.00	3,126.2	
7	329	346.48	1,596.9	
8	349	1,006.49	4,366.3	
9	465	351.78	1,146.9	
10	10,380	75.00	10.9	Upper Marker

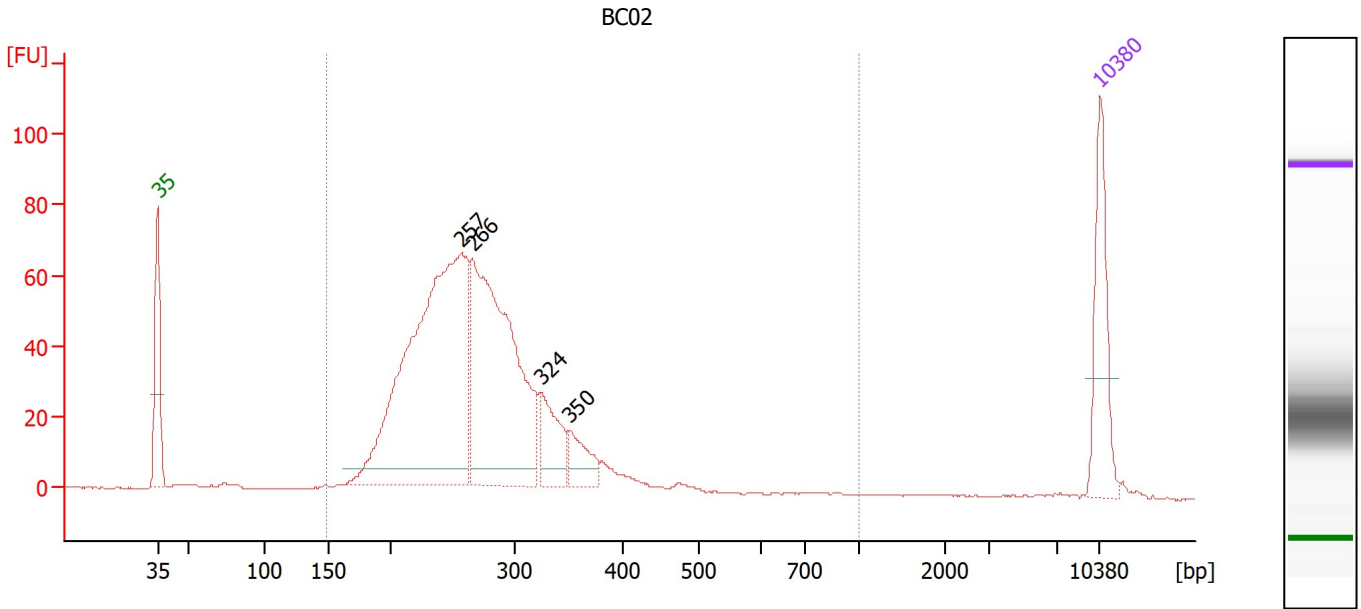
Region table for sample 9 : BC11

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
149	1,000	3,558.0	99	330	30.8	4,528.41	23,376.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : BC02

Number of peaks found: 4 Corr. Area 1: 1,018.5
 Noise: 0.2

Peak table for sample 10 : BC02

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	257	607.30	3,584.3	
3	266	416.71	2,374.8	
4	324	65.61	306.7	
5	350	39.80	172.5	
6	10,380	75.00	10.9	Upper Marker

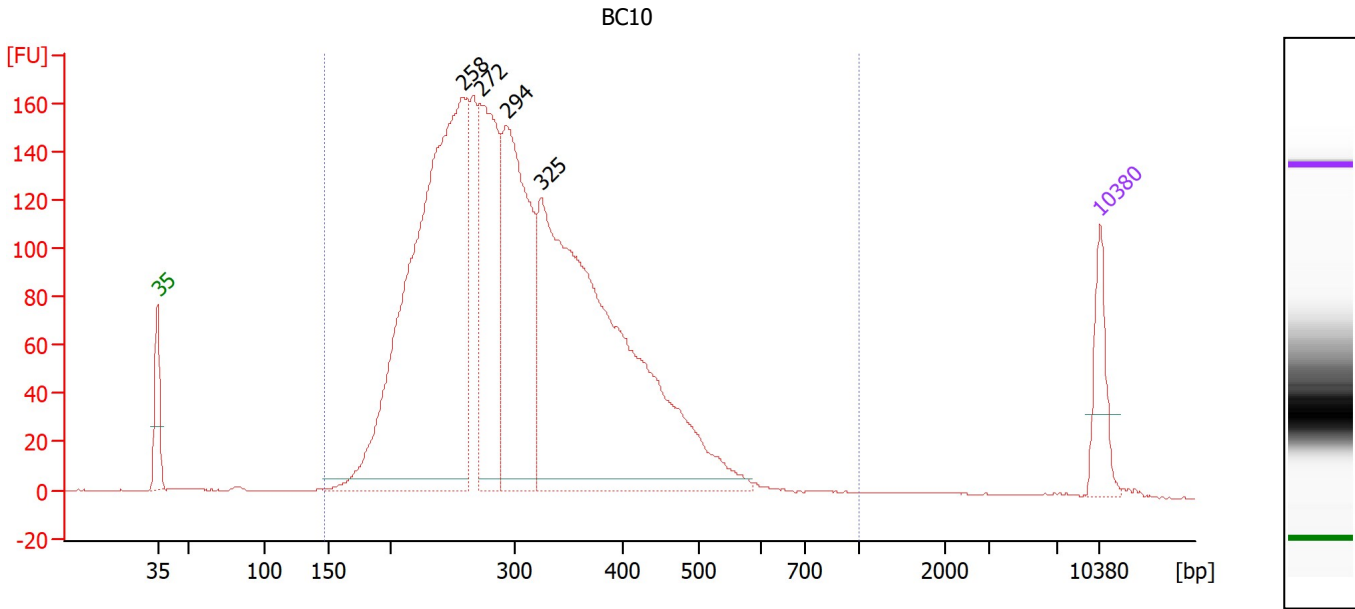
Region table for sample 10 : BC02

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
150	1,000	1,018.5	98	272	21.3	1,265.07	7,357.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : BC10

Number of peaks found: 4 Corr. Area 1: 3,395.3
 Noise: 0.2

Peak table for sample 11 : BC10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	258	1,482.42	8,689.1	
3	272	461.64	2,571.4	
4	294	602.70	3,111.2	
5	325	1,419.72	6,627.3	
6	10,380	75.00	10.9	Upper Marker

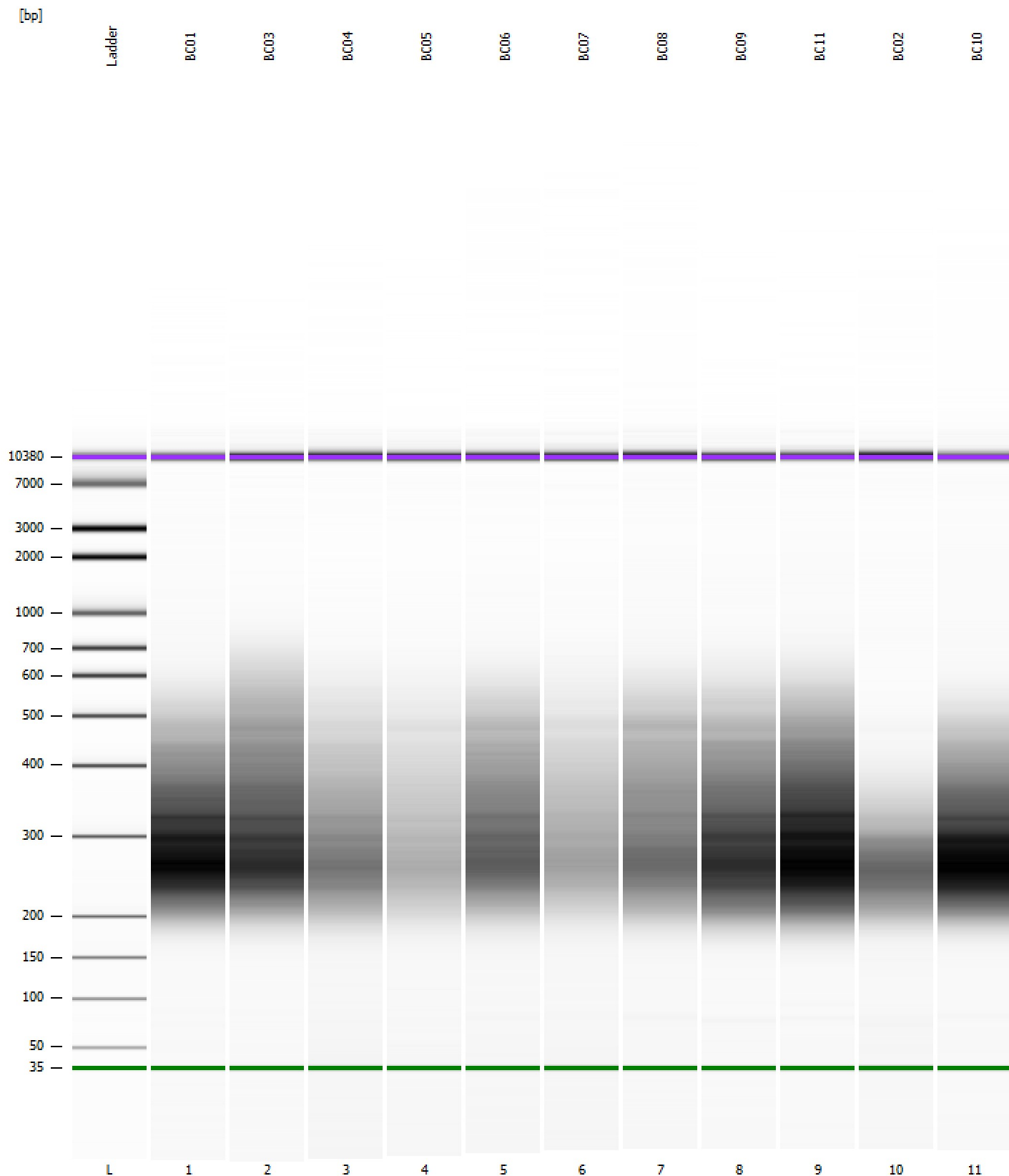
Region table for sample 11 : BC10

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
148	1,000	3,395.3	99	310	26.9	4,173.92	22,180.3	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
Modified: 9/16/2020 5:30:15 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-09-16_001.xad

Created: 9/16/2020 4:47:15 PM
 Modified: 9/16/2020 5:30:15 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		9/16/2020 5:28:34 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-09-16\Bioanalyze r1_High Sensitivity DNA Assay_2020-09-16_001.xad)		Instrument	Run		9/16/2020 4:47:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		9/16/2020 4:47:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		9/16/2020 4:47:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		9/16/2020 4:47:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		9/16/2020 4:47:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		9/16/2020 4:47:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		9/16/2020 4:47:21 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB