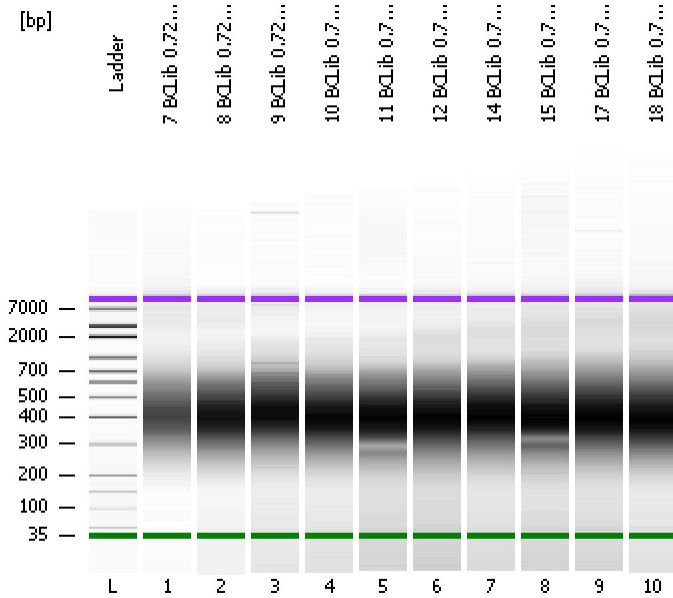


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

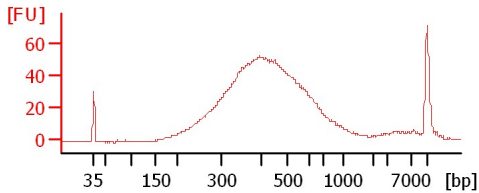
Assay Information:

Assay Origin Path: C:\Program Files\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

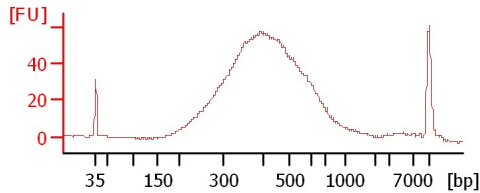
Chip Information:

Chip Lot #:
 Reagent Kit Lot #:
 Chip Comments:

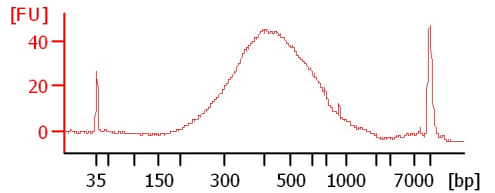
7 BCLib 0.72X Size Sel.



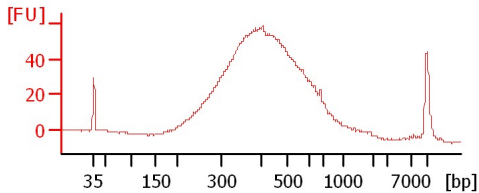
8 BCLib 0.72X Size Sel.



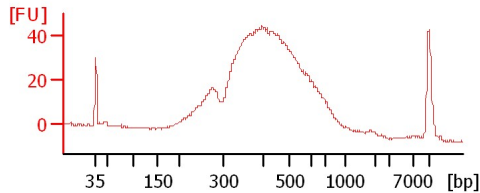
9 BCLib 0.72X Size Sel.



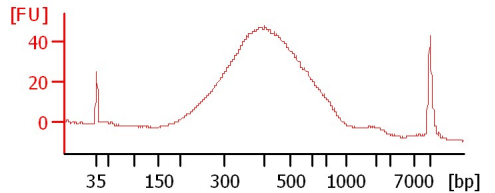
10 BCLib 0.72X Size Sel.



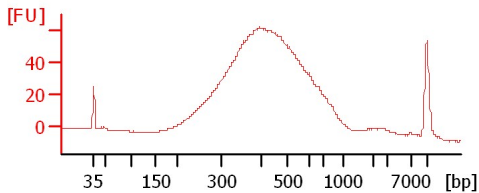
11 BCLib 0.72X Size Sel.



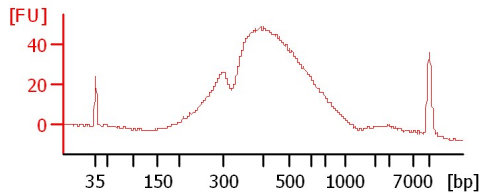
12 BCLib 0.72X Size Sel.



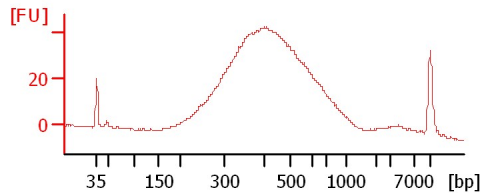
14 BCLib 0.72X Size Sel.



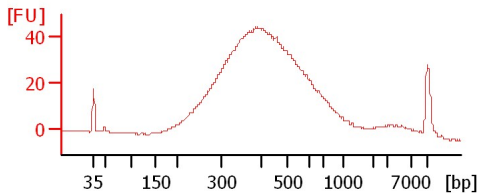
15 BCLib 0.72X Size Sel.



17 BCLib 0.72X Size Sel.



18 BCLib 0.72X Size Sel.



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
7 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
8 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
9 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
10 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
11 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
12 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
14 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
15 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
17 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
18 BCLib 0.72X Size Sel.		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
Modified: 8/23/2016 5:20:50 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

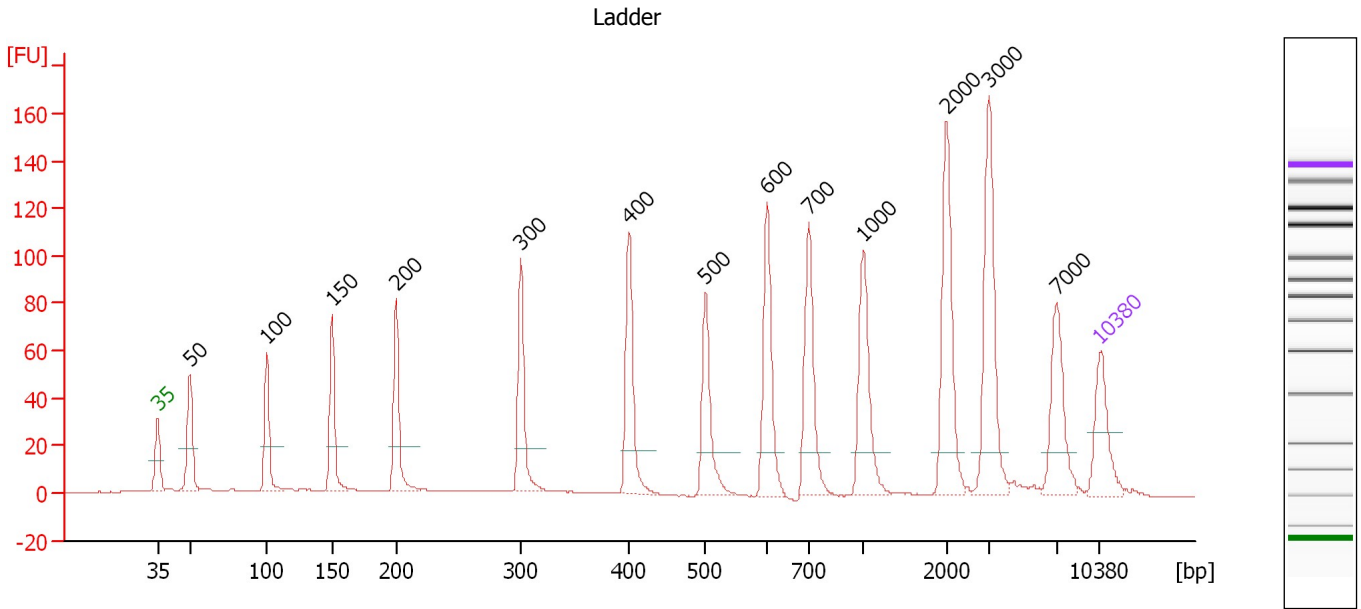
Ladder

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: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

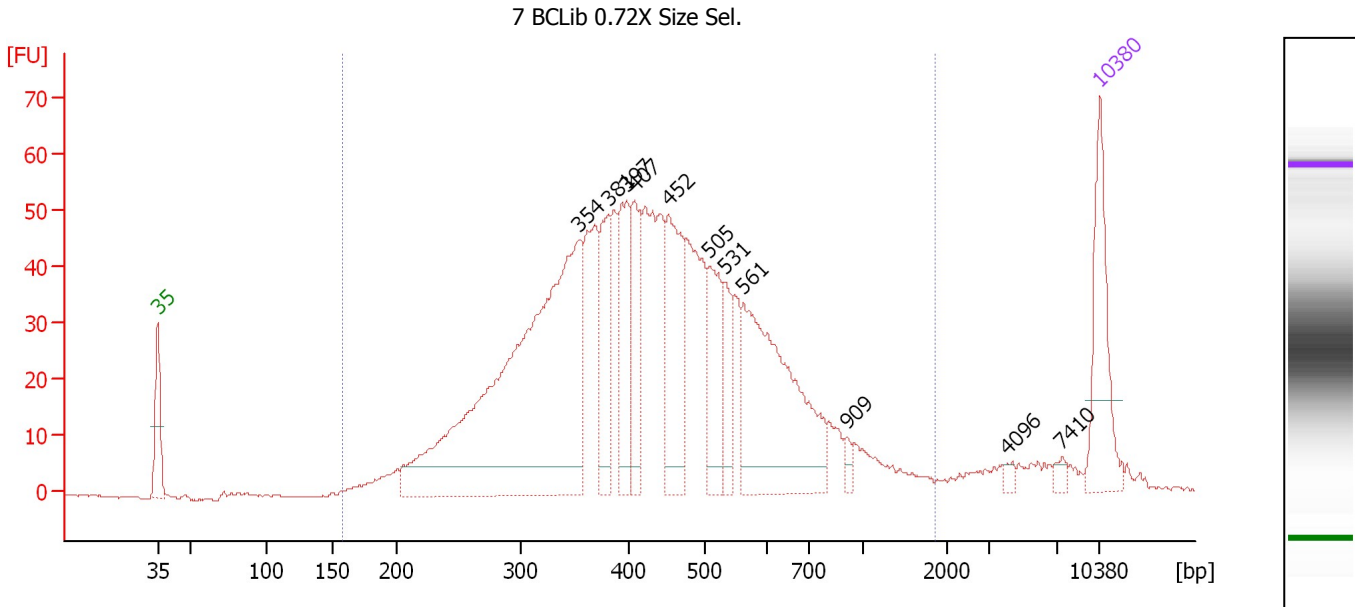
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.42
3	100	150.00	2,272.7	Ladder Peak	51.10
4	150	150.00	1,515.2	Ladder Peak	55.93
5	200	150.00	1,136.4	Ladder Peak	60.71
6	300	150.00	757.6	Ladder Peak	69.97
7	400	150.00	568.2	Ladder Peak	78.03
8	500	150.00	454.5	Ladder Peak	83.71
9	600	150.00	378.8	Ladder Peak	88.24
10	700	150.00	324.7	Ladder Peak	91.36
11	1,000	150.00	227.3	Ladder Peak	95.44
12	2,000	150.00	113.6	Ladder Peak	101.58
13	3,000	150.00	75.8	Ladder Peak	104.75
14	7,000	150.00	32.5	Ladder Peak	109.78
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 7 BCLib 0.72X Size Sel.

Number of peaks found: 11 Corr. Area 1: 1,319.0
 Noise: 0.2

Peak table for sample 1 : 7 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	354	634.80	2,715.6		74.34
3	381	84.59	336.8		76.46
4	397	91.06	347.1		77.82
5	407	69.93	260.2		78.43
6	452	129.56	434.7		80.96
7	505	78.08	234.3		83.94
8	531	47.66	136.1		85.10
9	561	241.23	651.7		86.47
10	909	8.68	14.5		94.20
11	4,096	4.53	1.7		106.13
12	7,410	6.24	1.3		110.17
13	10,380	75.00	10.9	Upper Marker	113.00

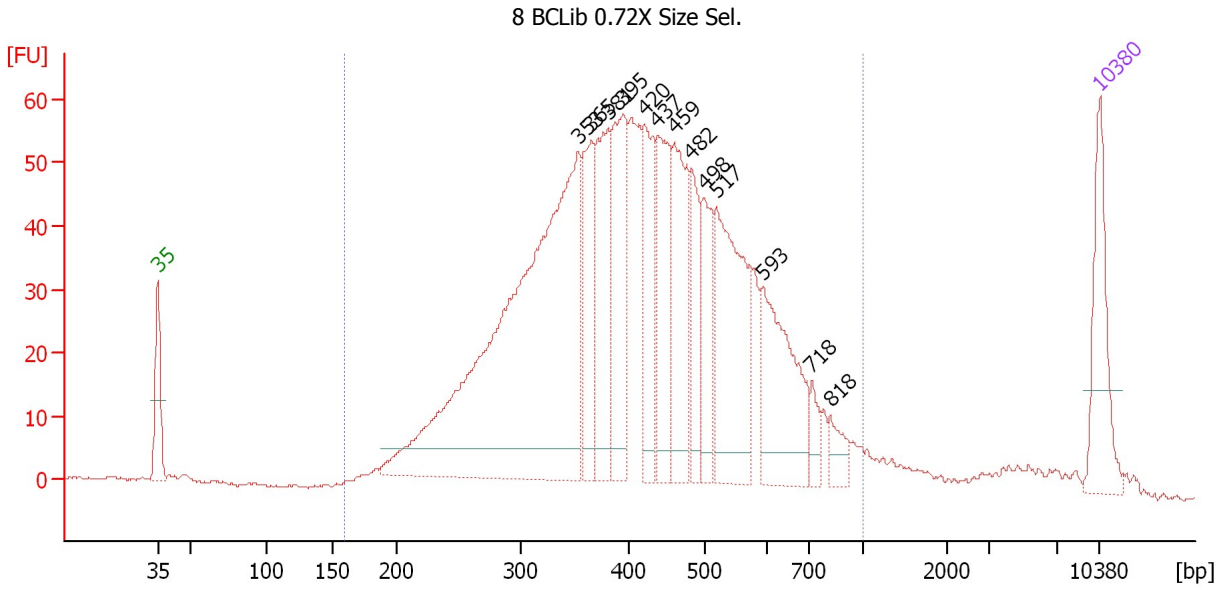
Region table for sample 1 : 7 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
159	1,855	460	1,319.0	8,007.0	2,046.17	96	42.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 8 BCLib 0.72X Size Sel.

Number of peaks found: 13 Corr. Area 1: 1,449.9
 Noise: 0.3

Peak table for sample 2 : 8 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	353	792.82	3,403.1		74.24
3	365	112.55	467.3		75.20
4	381	150.00	597.2		76.46
5	395	151.67	581.8		77.62
6	420	113.31	409.2		79.14
7	437	120.90	418.9		80.14
8	459	145.84	481.9		81.36
9	482	77.85	244.9		82.67
10	498	71.89	218.9		83.58
11	517	202.31	592.8		84.49
12	593	150.94	385.8		87.92
13	718	20.81	43.9		91.60
14	818	23.57	43.7		92.96
15	10,380	75.00	10.9	Upper Marker	113.00

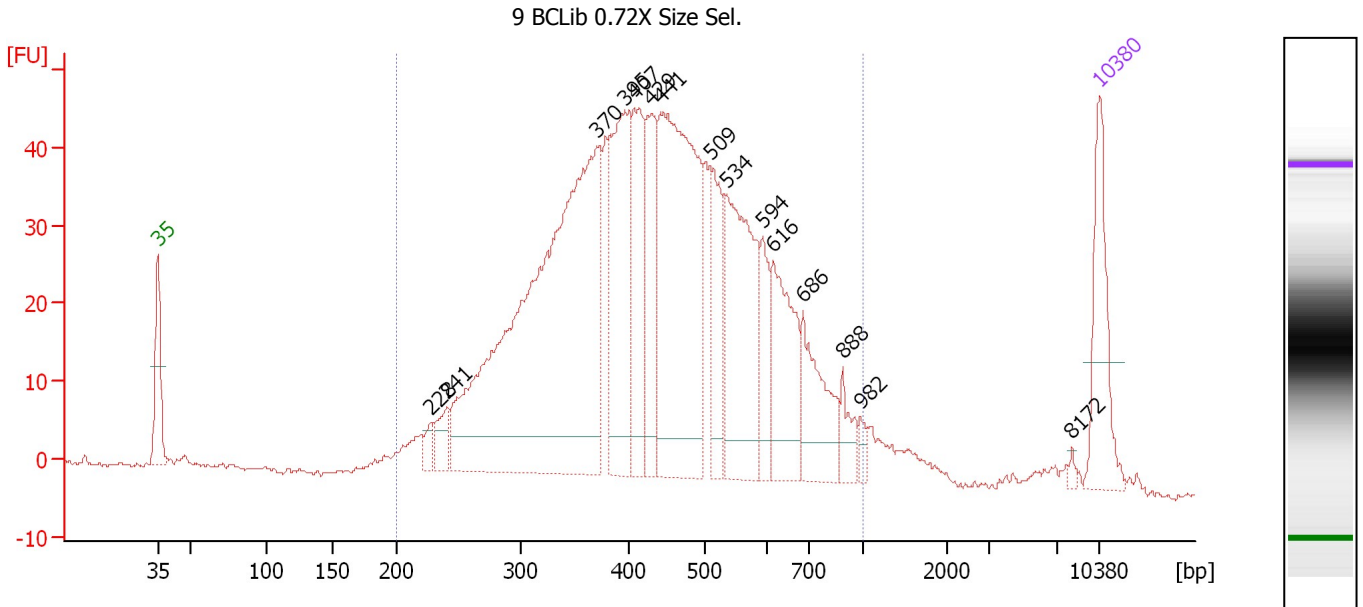
Region table for sample 2 : 8 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
160	1,000	431	1,449.9	10,240.6	2,561.23	96	30.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 9 BCLib 0.72X Size Sel.

Number of peaks found: 15 Corr. Area 1: 1,120.4
 Noise: 0.3

Peak table for sample 3 : 9 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	228	15.41	102.5		63.27
3	241	29.03	182.6		64.50
4	370	748.34	3,061.4		75.64
5	395	185.46	711.0		77.64
6	407	125.22	466.4		78.41
7	429	103.60	365.6		79.69
8	441	380.39	1,306.7		80.36
9	509	85.00	253.2		84.11
10	534	202.96	576.3		85.24
11	594	51.09	130.4		87.96
12	616	111.86	275.3		88.73
13	686	87.76	193.8		90.93
14	888	25.31	43.2		93.91
15	982	9.99	15.4		95.19
16	8,172	3.55	0.7		110.90
17	10,380	75.00	10.9	Upper Marker	113.00

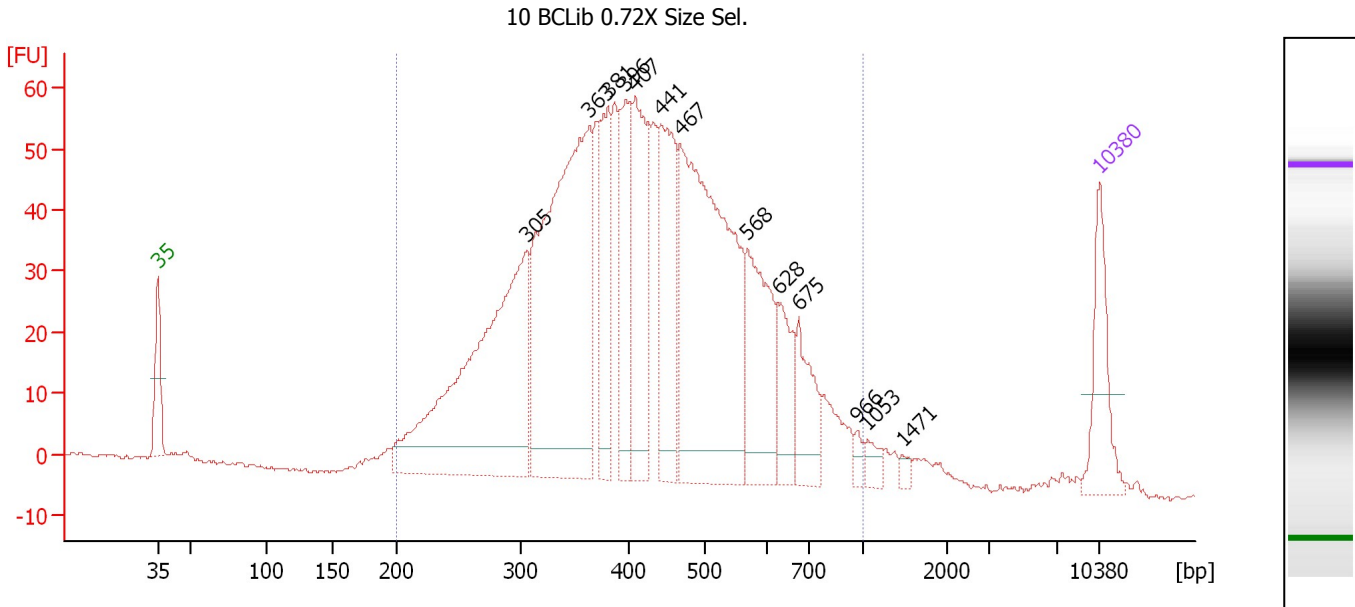
Region table for sample 3 : 9 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	452	1,120.4	8,974.7	2,368.09	97	30.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 10 BCLib 0.72X Size Sel.

Number of peaks found: 13 Corr. Area 1: 1,460.0
 Noise: 0.2

Peak table for sample 4 : 10 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	305	597.82	2,966.6		70.40
3	363	626.23	2,612.1		75.07
4	381	135.01	537.2		76.48
5	396	134.59	514.4		77.74
6	407	211.51	787.5		78.42
7	441	194.95	669.8		80.36
8	467	563.10	1,827.7		81.82
9	568	175.39	467.7		86.80
10	628	71.29	172.0		89.11
11	675	84.02	188.7		90.57
12	966	11.06	17.3		94.98
13	1,053	16.04	23.1		95.76
14	1,471	6.95	7.2		98.33
15	10,380	75.00	10.9	Upper Marker	113.00

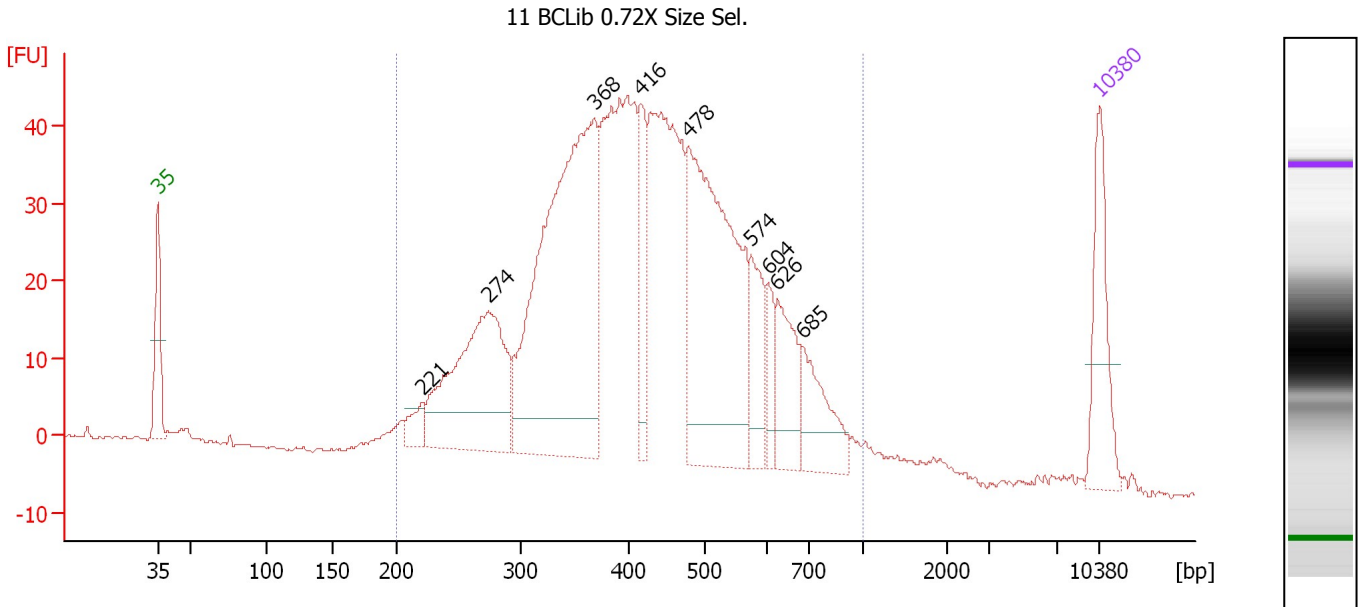
Region table for sample 4 : 10 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	435	1,460.0	12,079.1	3,073.19	98	30.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 11 BCLib 0.72X Size Sel.

Number of peaks found: 9 Corr. Area 1: 1,082.7
 Noise: 0.3

Peak table for sample 5 : 11 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	221	26.77	183.5		62.66
3	274	284.26	1,571.0		67.58
4	368	572.86	2,359.7		75.44
5	416	82.16	299.6		78.91
6	478	394.78	1,252.5		82.44
7	574	66.46	175.3		87.08
8	604	33.85	84.9		88.37
9	626	74.82	181.0		89.06
10	685	79.05	175.0		90.88
11	10,380	75.00	10.9	Upper Marker	113.00

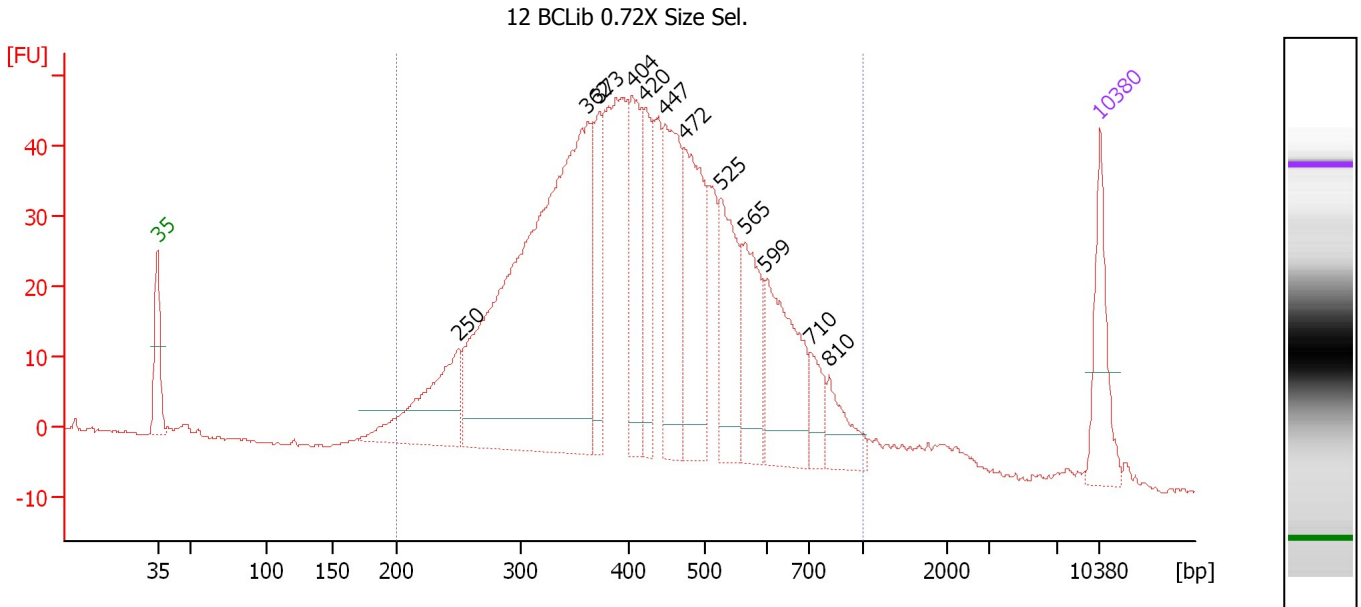
Region table for sample 5 : 11 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	436	1,082.7	9,147.4	2,339.30	98	29.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 12 BCLib 0.72X Size Sel.

Number of peaks found: 12 Corr. Area 1: 1,228.0
 Noise: 0.2

Peak table for sample 6 : 12 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	250	185.84	1,125.0		65.37
3	362	953.49	3,992.7		74.95
4	373	116.71	474.5		75.82
5	404	148.12	555.0		78.27
6	420	126.17	455.5		79.14
7	447	190.42	644.9		80.72
8	472	209.23	671.2		82.14
9	525	150.13	433.0		84.86
10	565	125.40	336.3		86.65
11	599	172.58	436.8		88.18
12	710	41.25	88.0		91.50
13	810	56.55	105.7		92.86
14	10,380	75.00	10.9	Upper Marker	113.00

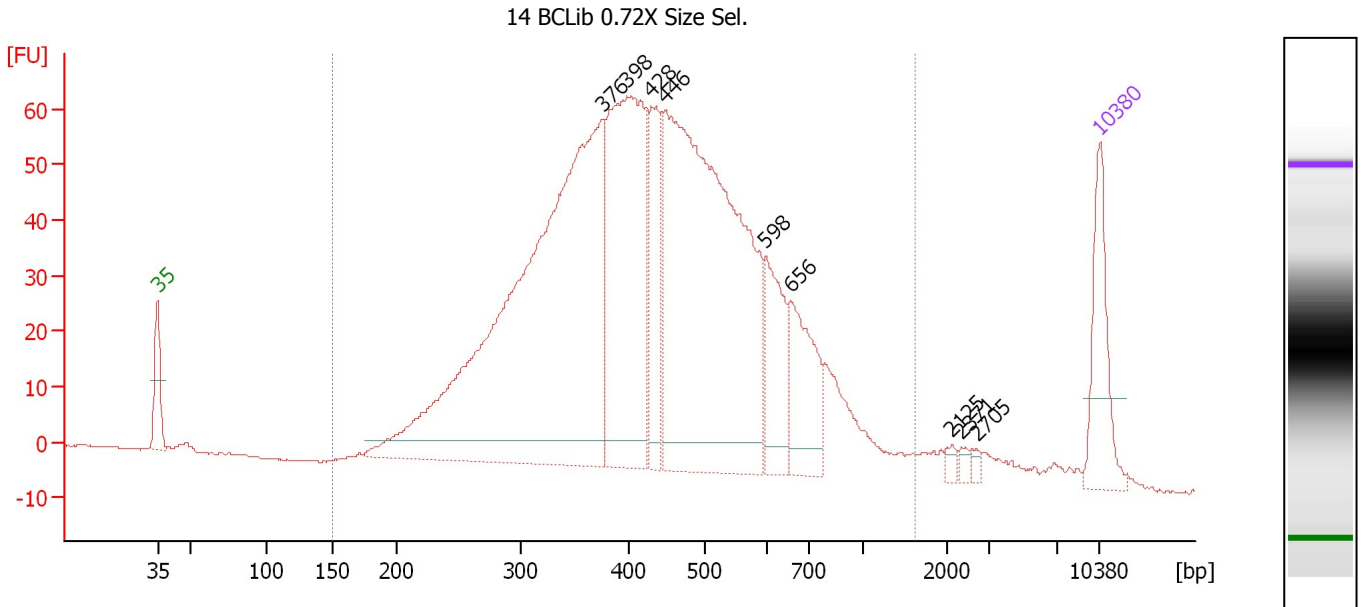
Region table for sample 6 : 12 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	434	1,228.0	12,018.1	3,044.87	97	30.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 14 BCLib 0.72X Size Sel.

Number of peaks found: 9 Corr. Area 1: 1,609.8
 Noise: 0.3

Peak table for sample 7 : 14 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	376	984.98	3,971.0		76.08
3	398	411.75	1,567.7		77.86
4	428	113.36	400.9		79.64
5	446	774.88	2,632.0		80.65
6	598	101.11	256.1		88.16
7	656	109.08	251.8		90.00
8	2,125	7.08	5.0		101.97
9	2,371	6.58	4.2		102.75
10	2,705	4.87	2.7		103.81
11	10,380	75.00	10.9	Upper Marker	113.00

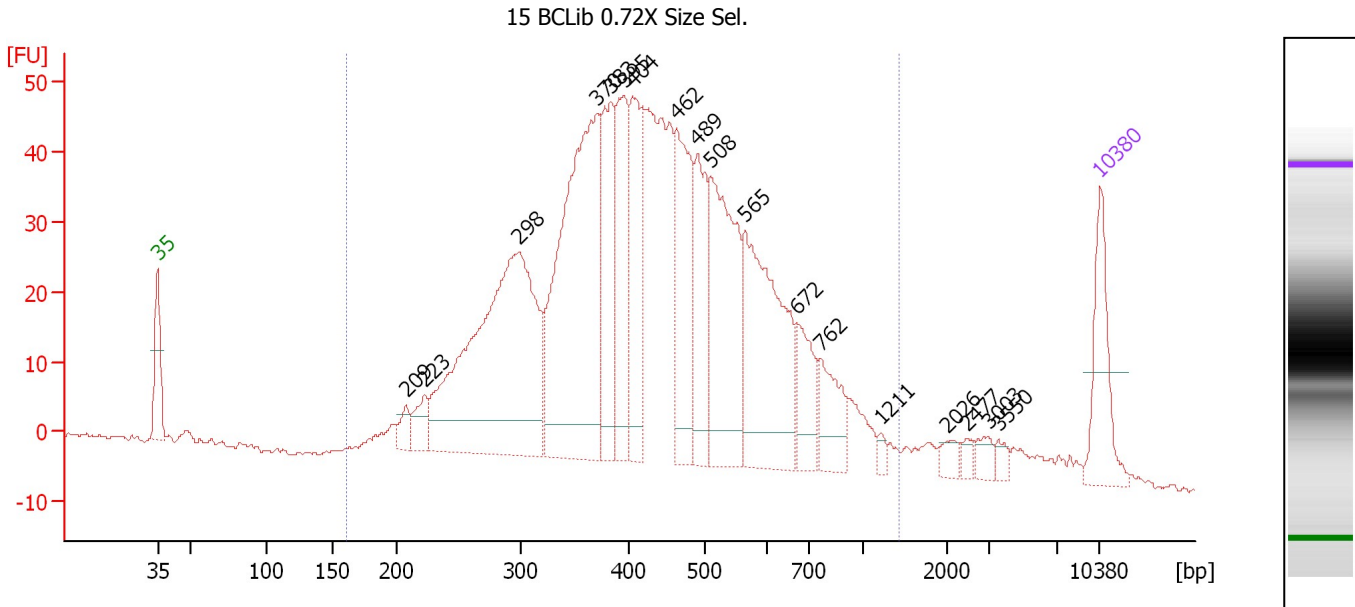
Region table for sample 7 : 14 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
151	1,616	456	1,609.8	10,259.3	2,665.65	98	36.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 15 BCLib 0.72X Size Sel.

Number of peaks found: 18 Corr. Area 1: 1,207.1
 Noise: 0.3

Peak table for sample 8 : 15 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	209	23.83	173.2		61.50
3	223	36.94	251.3		62.82
4	298	587.28	2,983.8		69.81
5	370	497.67	2,039.0		75.59
6	383	156.93	620.3		76.68
7	395	139.51	534.6		77.66
8	404	145.72	547.1		78.23
9	462	174.27	571.5		81.55
10	489	133.11	412.3		83.10
11	508	239.29	713.8		84.07
12	565	265.25	711.5		86.65
13	672	71.39	161.0		90.49
14	762	65.71	130.6		92.21
15	1,211	7.67	9.6		96.73
16	2,026	13.20	9.9		101.66
17	2,477	7.92	4.8		103.09
18	3,003	14.02	7.1		104.75
19	3,550	9.68	4.1		105.44
20	10,380	75.00	10.9	Upper Marker	113.00

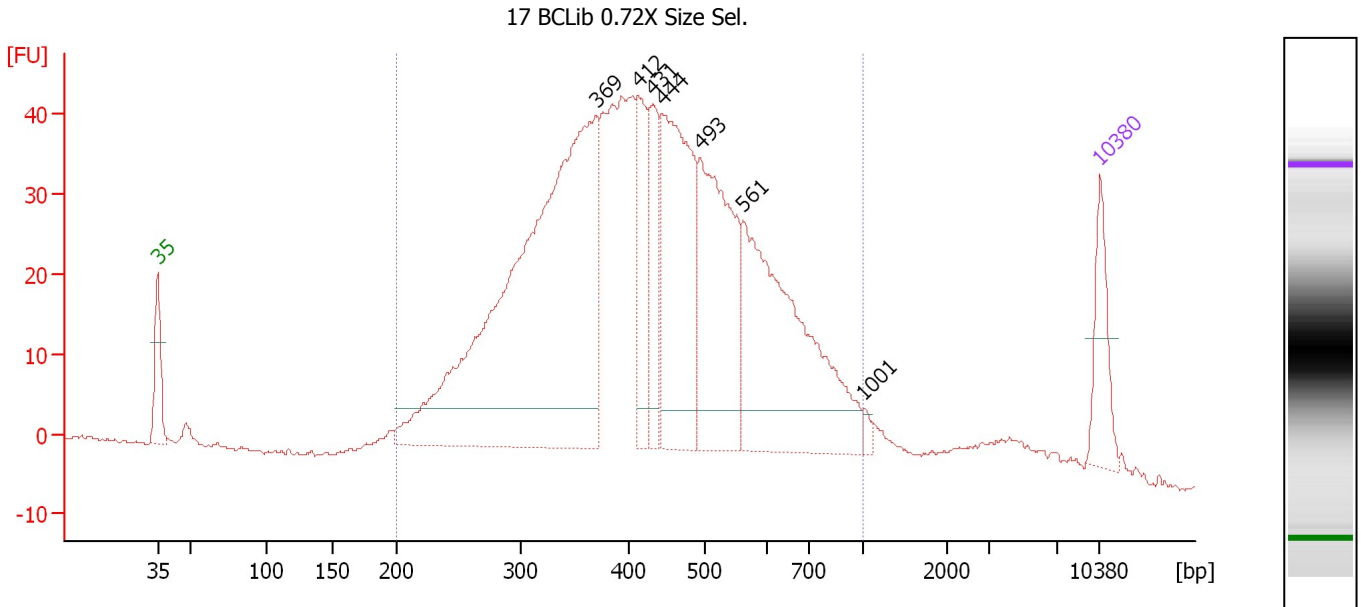
Region table for sample 8 : 15 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
161	1,436	451	1,207.1	11,517.9	2,956.66	96	35.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 17 BCLib 0.72X Size Sel.

Number of peaks found: 7 Corr. Area 1: 1,090.2
 Noise: 0.2

Peak table for sample 9 : 17 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	369	1,249.21	5,124.4		75.56
3	412	156.55	576.0		78.70
4	431	132.41	465.2		79.80
5	444	390.76	1,334.9		80.50
6	493	380.18	1,169.4		83.29
7	561	494.27	1,334.2		86.49
8	1,001	10.62	16.1		95.44
9	10,380	75.00	10.9	Upper Marker	113.00

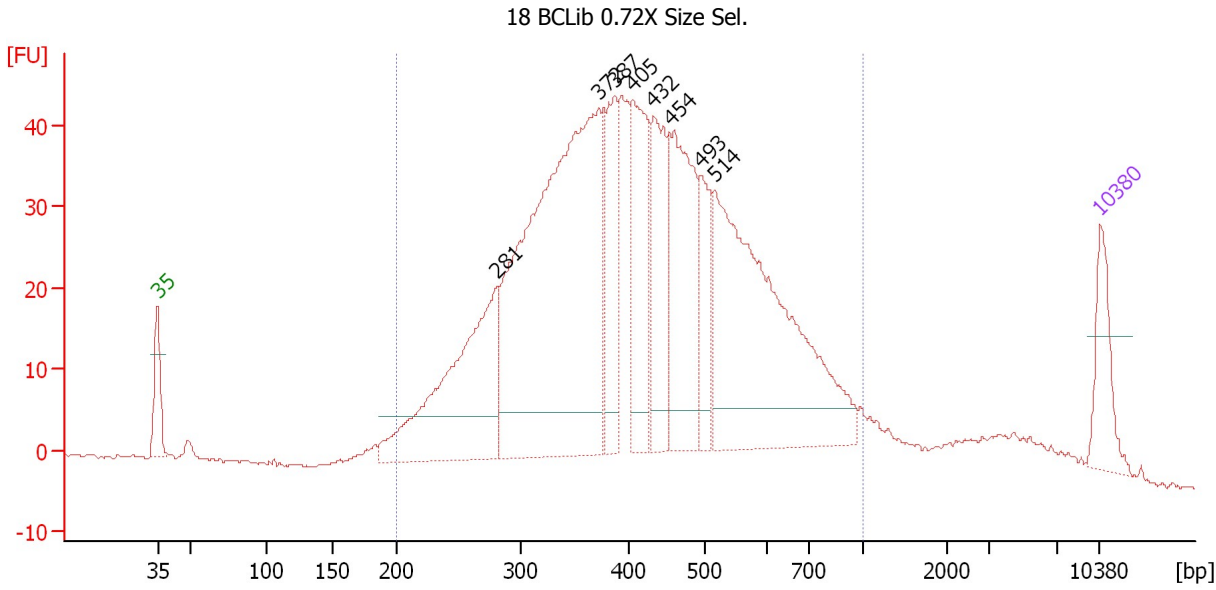
Region table for sample 9 : 17 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	444	1,090.2	13,987.8	3,607.08	95	31.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 18 BCLib 0.72X Size Sel.

Number of peaks found: 8 Corr. Area 1: 1,100.2
 Noise: 0.3

Peak table for sample 10 : 18 BCLib 0.72X Size Sel.

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	281	473.85	2,550.8		68.26
3	372	1,099.47	4,474.9		75.79
4	387	199.77	782.3		76.97
5	405	239.09	893.9		78.32
6	432	213.30	747.8		79.85
7	454	308.69	1,030.4		81.09
8	493	102.01	313.3		83.33
9	514	691.00	2,038.4		84.33
10	10,380	75.00	10.9	Upper Marker	113.00

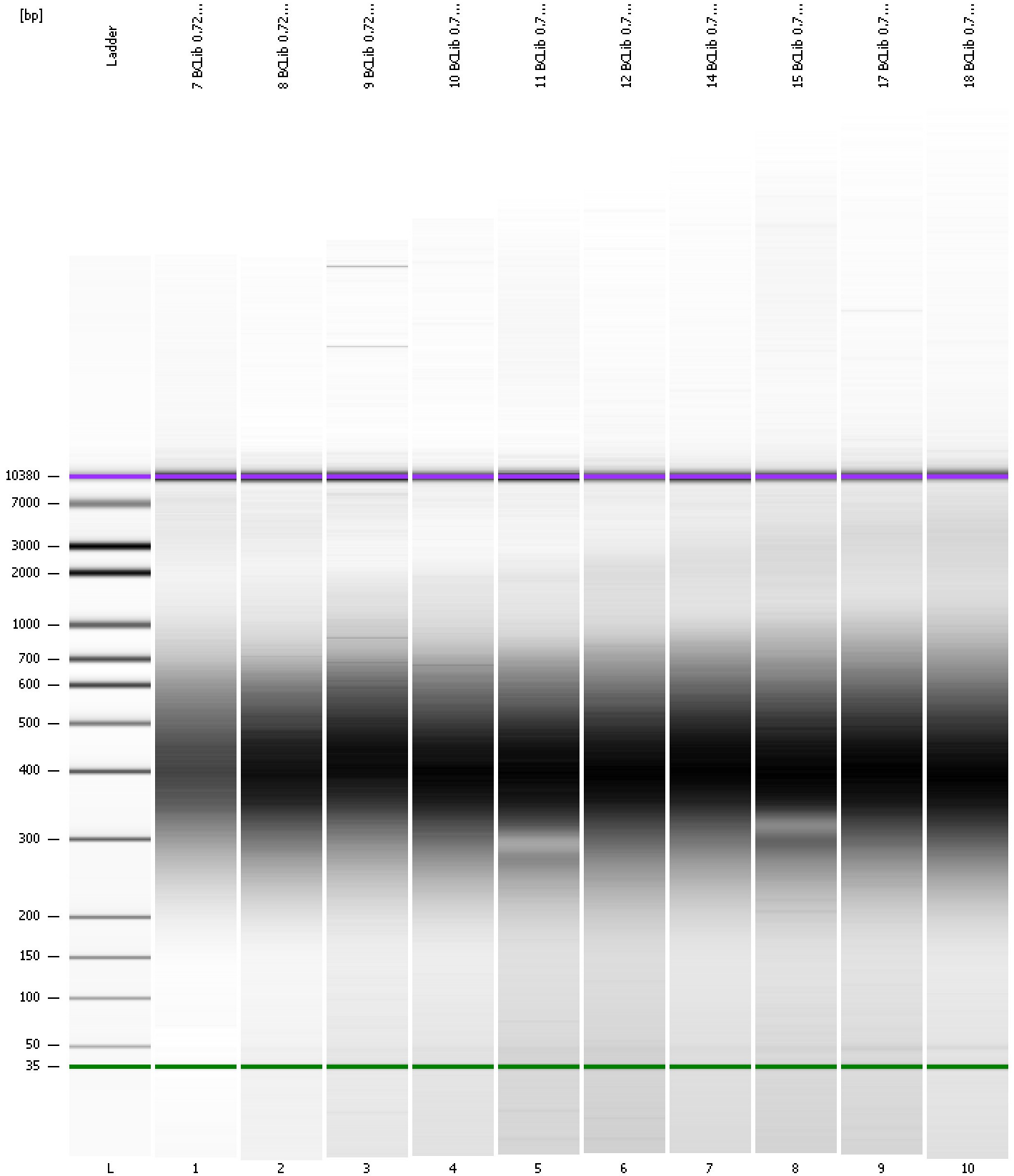
Region table for sample 10 : 18 BCLib 0.72X Size Sel.

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	437	1,100.2	15,136.7	3,825.99	93	32.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
Modified: 8/23/2016 5:20:50 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-23\2016-08-23_009_BisulfiteLibraries_SizeSelected_7-18.xad

Created: 8/23/2016 4:37:39 PM
 Modified: 8/23/2016 5:20:50 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		8/23/2016 5:18:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-23\2016-08-23_009.xad)		Instrument	Run		8/23/2016 4:37:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/23/2016 4:37:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/23/2016 4:37:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/23/2016 4:37:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/23/2016 4:37:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/23/2016 4:37:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/23/2016 4:37:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1