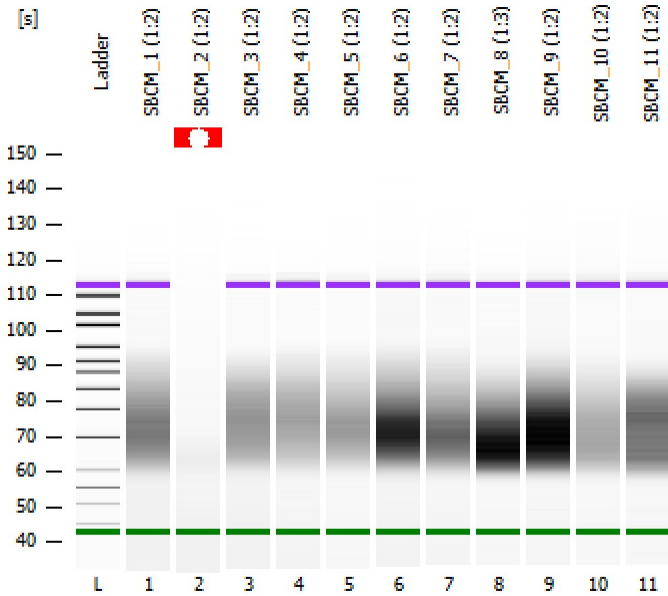


Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
Modified: 7/6/2020 4:59:22 PM

Electrophoresis File Run Summary



Instrument Information:

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

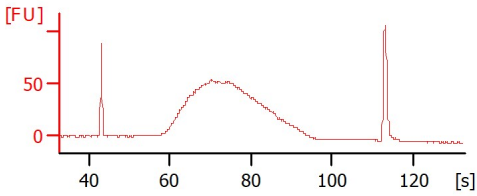
Assay Information:

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

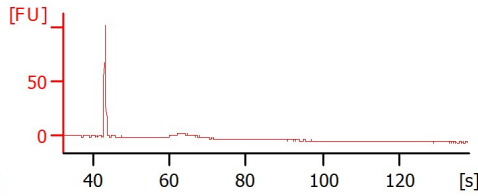
Chip Information:

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

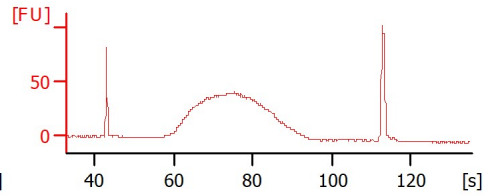
SBCM_1 (1:2)



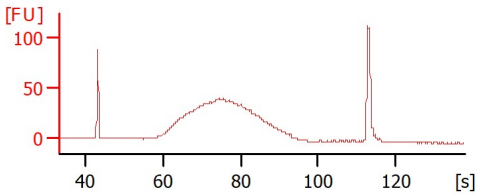
SBCM_2 (1:2)



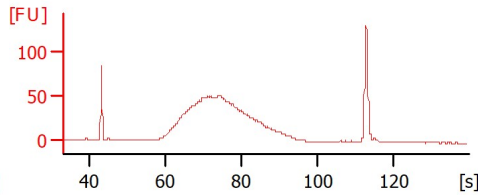
SBCM_3 (1:2)



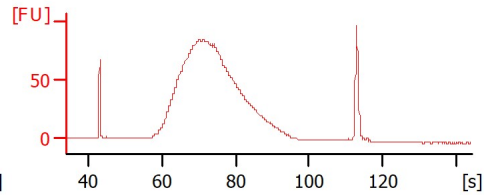
SBCM_4 (1:2)



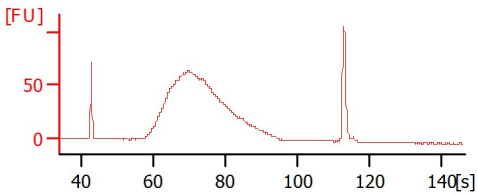
SBCM_5 (1:2)



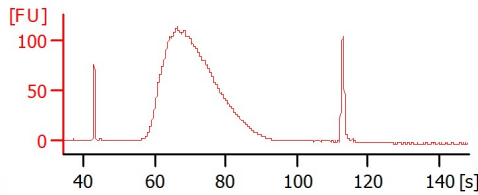
SBCM_6 (1:2)



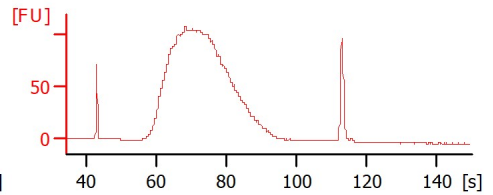
SBCM_7 (1:2)



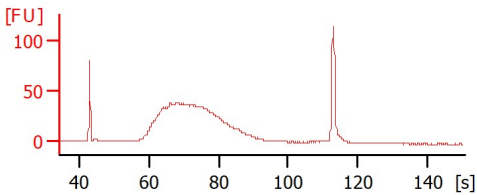
SBCM_8 (1:3)



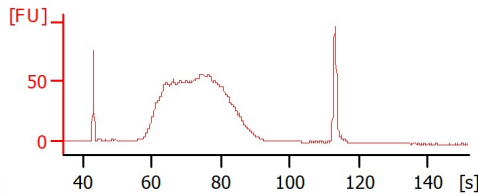
SBCM_9 (1:2)



SBCM_10 (1:2)



SBCM_11 (1:2)



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SBCM_1 (1:2)		<input type="checkbox"/>	✓			
SBCM_2 (1:2)		<input type="checkbox"/>	✓			
SBCM_3 (1:2)		<input type="checkbox"/>	✓			
SBCM_4 (1:2)		<input type="checkbox"/>	✓			
SBCM_5 (1:2)		<input type="checkbox"/>	✓			
SBCM_6 (1:2)		<input type="checkbox"/>	✓			
SBCM_7 (1:2)		<input type="checkbox"/>	✓			
SBCM_8 (1:3)		<input type="checkbox"/>	✓			
SBCM_9 (1:2)		<input type="checkbox"/>	✓			
SBCM_10 (1:2)		<input type="checkbox"/>	✓			
SBCM_11 (1:2)		<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_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 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

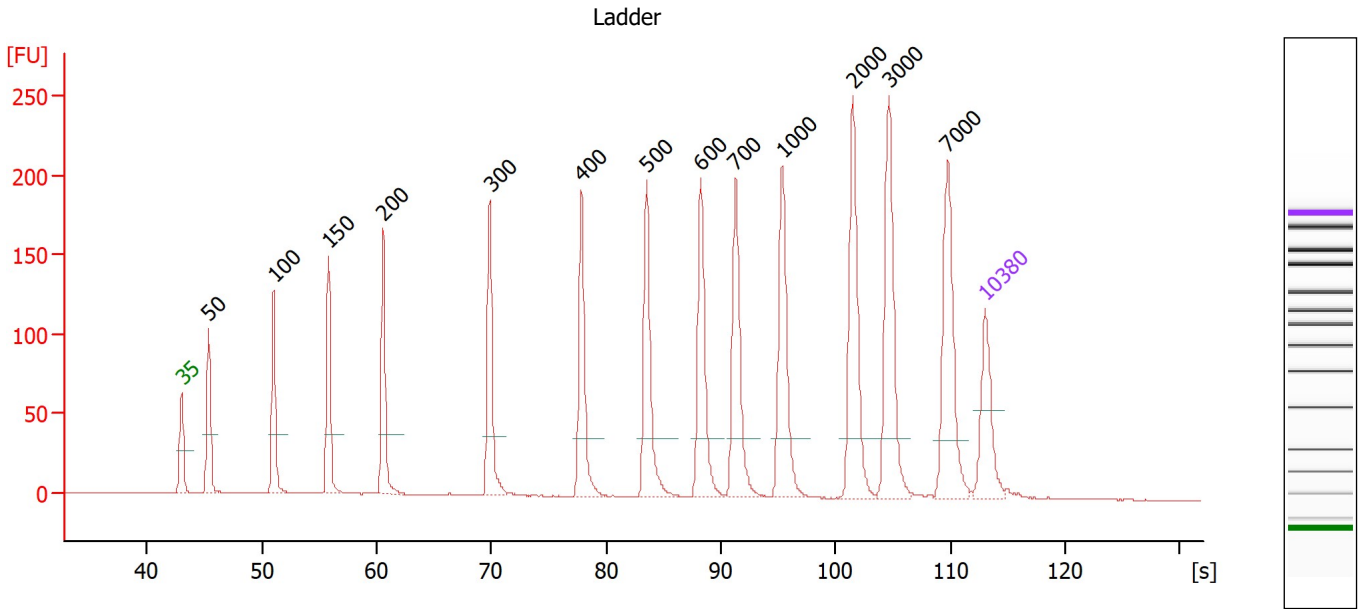
Ladder

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_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

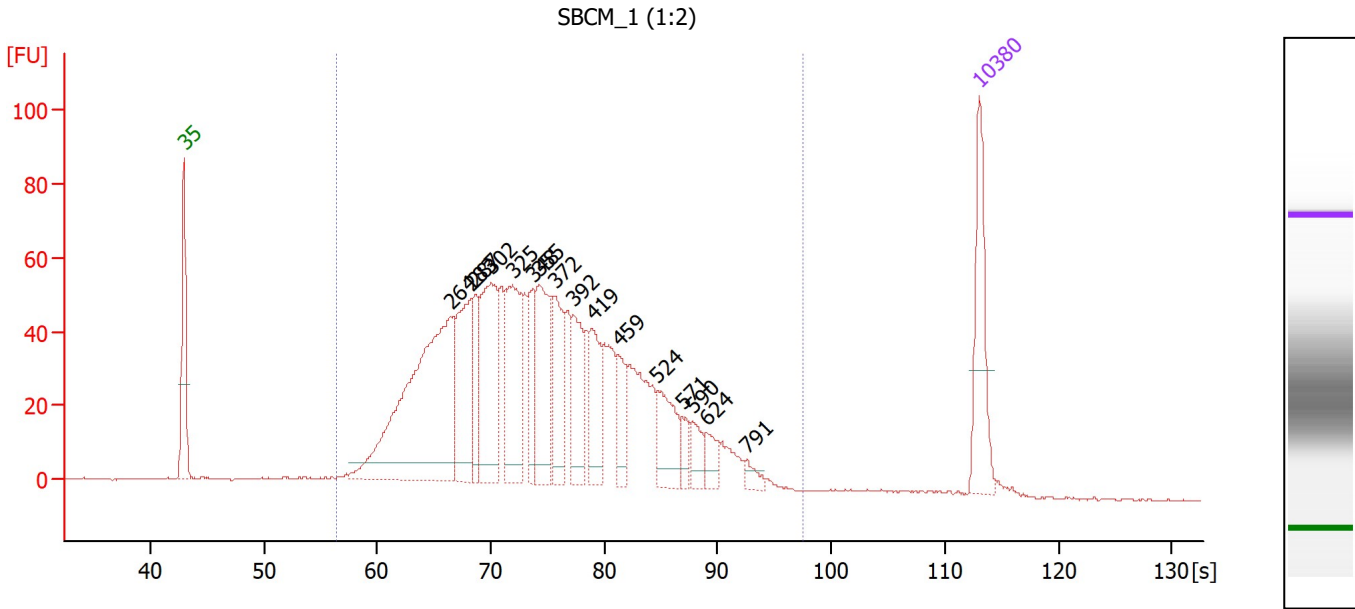
Peak table for Ladder

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_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : SBCM_1 (1:2)

Number of peaks found: 16 Corr. Area 1: 1,669.6
 Noise: 0.4

Peak table for sample 1 : SBCM_1 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	264	432.13	2,481.7	
3	283	135.41	725.7	
4	287	59.92	316.6	
5	302	162.48	814.0	
6	325	144.52	674.0	
7	348	53.60	233.4	
8	355	114.18	487.2	
9	372	80.54	327.8	
10	392	76.11	293.9	
11	419	64.58	233.4	
12	459	41.30	136.3	
13	524	63.92	184.7	
14	571	18.60	49.3	
15	590	24.56	63.0	
16	624	22.05	53.5	
17	791	11.51	22.1	
18	10,380	75.00	10.9	Upper Marker

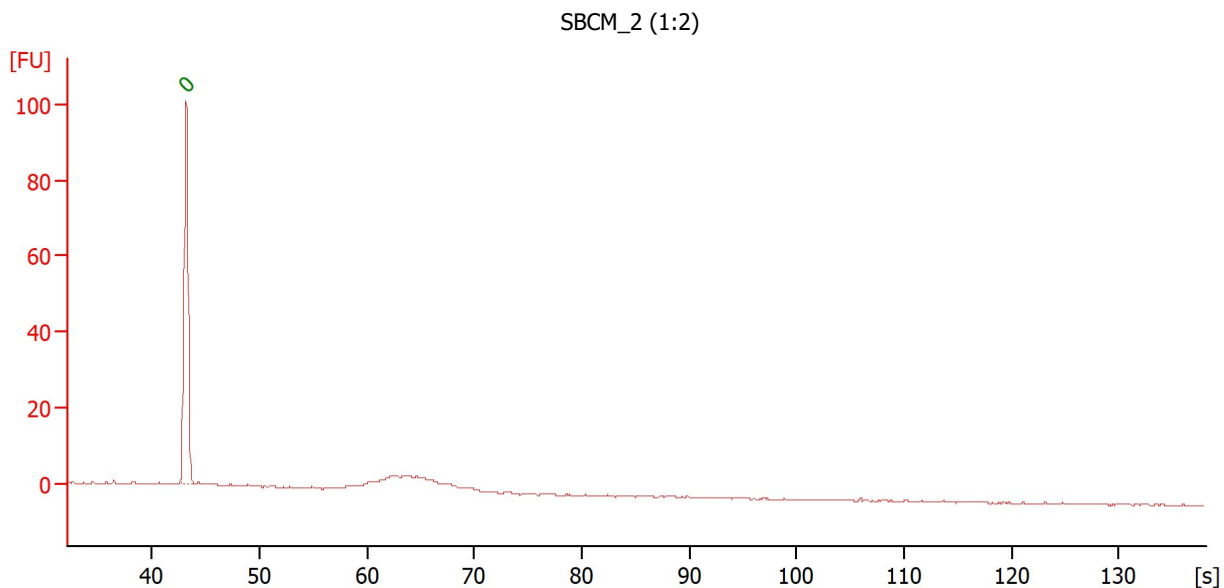
Region table for sample 1 : SBCM_1 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
157	1,351	1,669.6	96	376	35.1	2,029.86	9,486.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SBCM_2 (1:2)

Number of peaks found: 0 Noise: 0.2

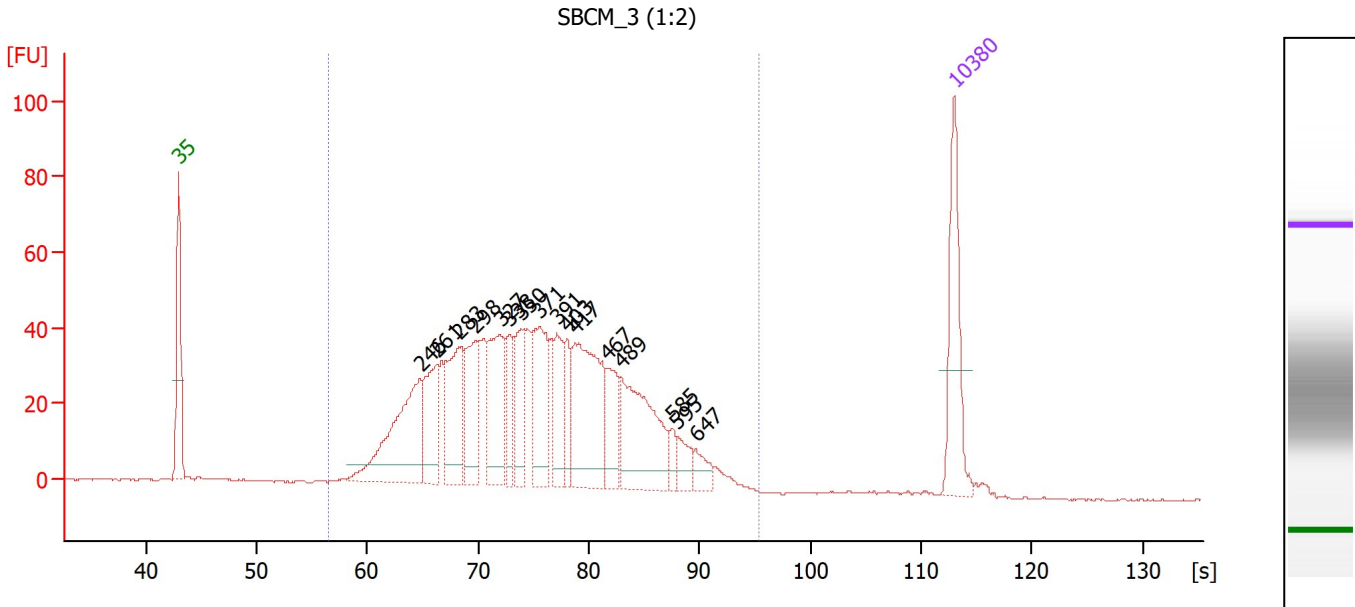
Peak table for sample 2 : SBCM_2 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	Lower Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SBCM_3 (1:2)

Number of peaks found: 16 Corr. Area 1: 1,254.8
 Noise: 0.3

Peak table for sample 3 : SBCM_3 (1:2)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	246	174.46	1,076.5	
3	261	82.41	477.9	
4	283	109.85	588.7	
5	298	78.11	396.6	
6	327	99.22	460.3	
7	338	41.01	184.1	
8	350	60.06	259.8	
9	371	94.02	383.5	
10	391	55.66	215.8	
11	403	34.14	128.2	
12	417	155.60	565.3	
13	467	51.08	165.8	
14	489	133.95	415.1	
15	585	12.19	31.6	
16	595	20.52	52.2	
17	647	17.37	40.7	
18	10,380	75.00	10.9	Upper Marker

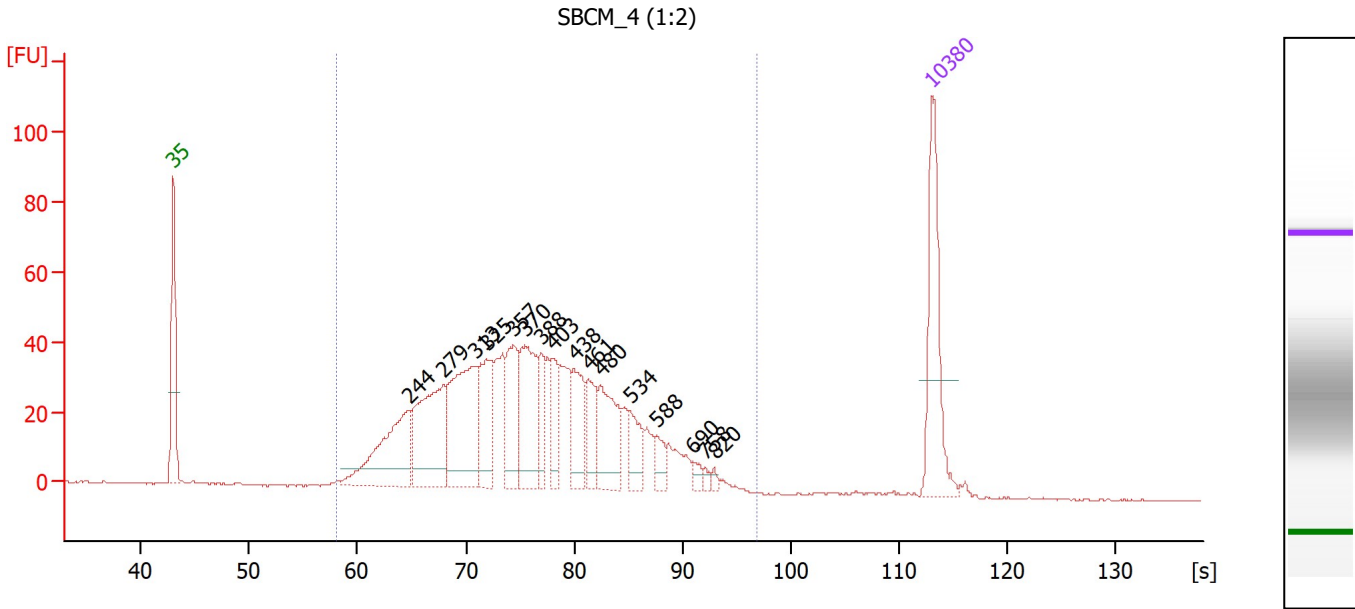
Region table for sample 3 : SBCM_3 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
158	1,000	1,254.8	97	381	30.9	1,467.75	6,653.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SBCM_4 (1:2)

Number of peaks found: 16 Corr. Area 1: 1,145.8
 Noise: 0.3

Peak table for sample 4 : SBCM_4 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	244	121.74	754.5	
3	279	128.58	697.6	
4	313	139.95	678.5	
5	325	68.50	319.4	
6	357	65.26	277.3	
7	370	87.51	358.2	
8	388	30.19	117.8	
9	403	34.75	130.5	
10	438	49.59	171.7	
11	461	38.00	124.8	
12	480	65.35	206.1	
13	534	30.61	86.8	
14	588	14.68	37.8	
15	690	7.13	15.6	
16	758	3.98	8.0	
17	820	3.39	6.3	
18	10,380	75.00	10.9	Upper Marker

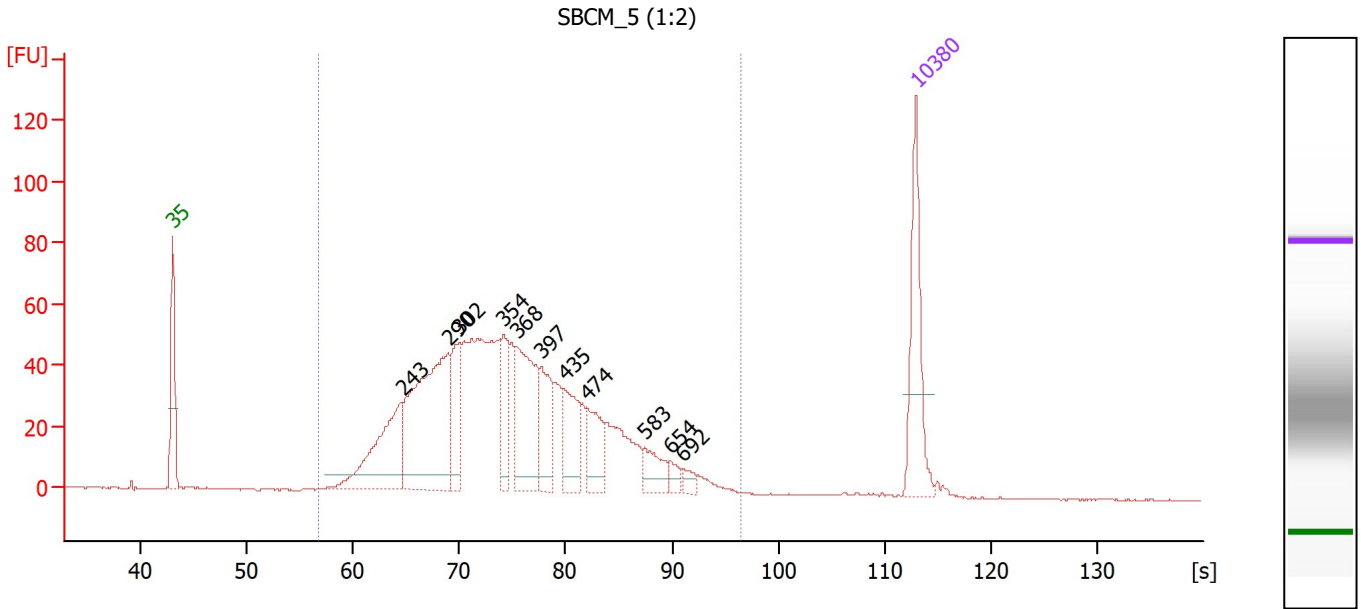
Region table for sample 4 : SBCM_4 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
174	1,247	1,145.8	98	393	32.5	1,123.96	4,971.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SBCM_5 (1:2)

Number of peaks found: 11 Corr. Area 1: 1,337.0
 Noise: 0.3

Peak table for sample 5 : SBCM_5 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	243	139.48	870.9	
3	290	255.01	1,334.1	
4	302	62.90	315.7	
5	354	52.56	225.2	
6	368	120.36	495.2	
7	397	62.03	236.6	
8	435	58.60	204.3	
9	474	47.06	150.5	
10	583	28.39	73.7	
11	654	10.37	24.0	
12	692	9.77	21.4	
13	10,380	75.00	10.9	Upper Marker

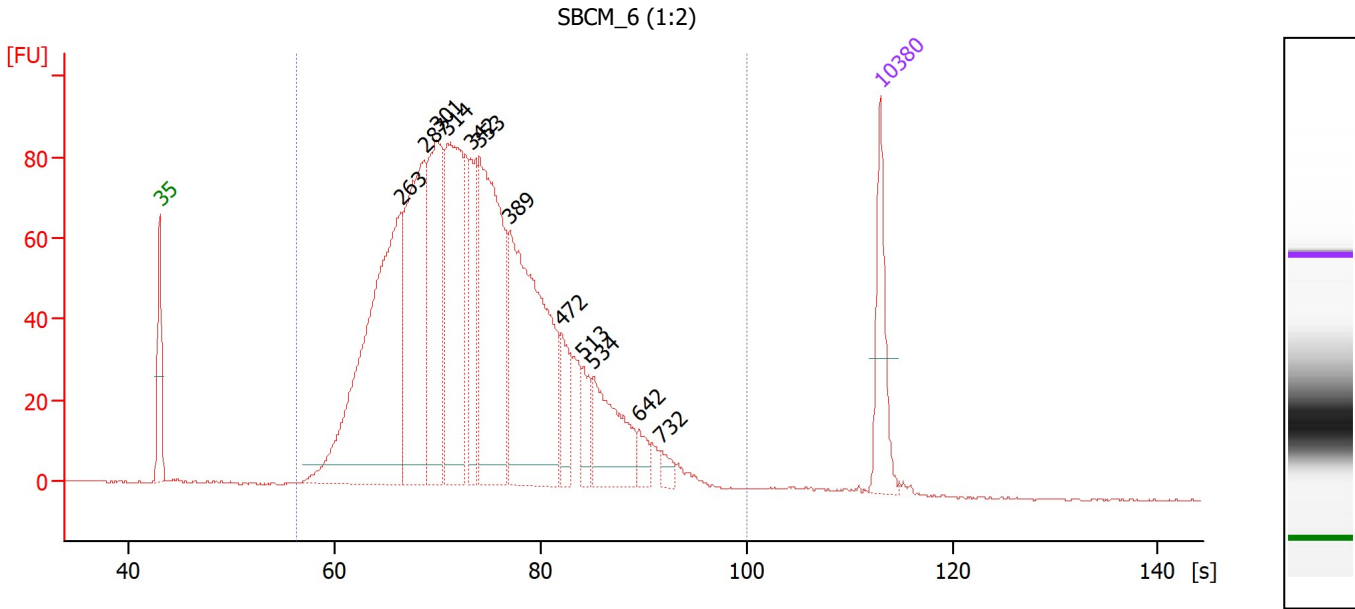
Region table for sample 5 : SBCM_5 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
160	1,197	1,337.0	99	377	33.0	1,310.37	5,989.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SBCM_6 (1:2)

Number of peaks found: 12 Corr. Area 1: 2,180.1
 Noise: 0.2

Peak table for sample 6 : SBCM_6 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	621.99	3,584.8	
3	287	362.97	1,915.5	
4	301	275.05	1,385.8	
5	314	319.35	1,542.2	
6	342	108.90	481.8	
7	353	378.51	1,625.3	
8	389	417.97	1,626.5	
9	472	59.46	190.7	
10	513	38.88	114.7	
11	534	120.26	341.0	
12	642	21.45	50.6	
13	732	14.92	30.9	
14	10,380	75.00	10.9	Upper Marker

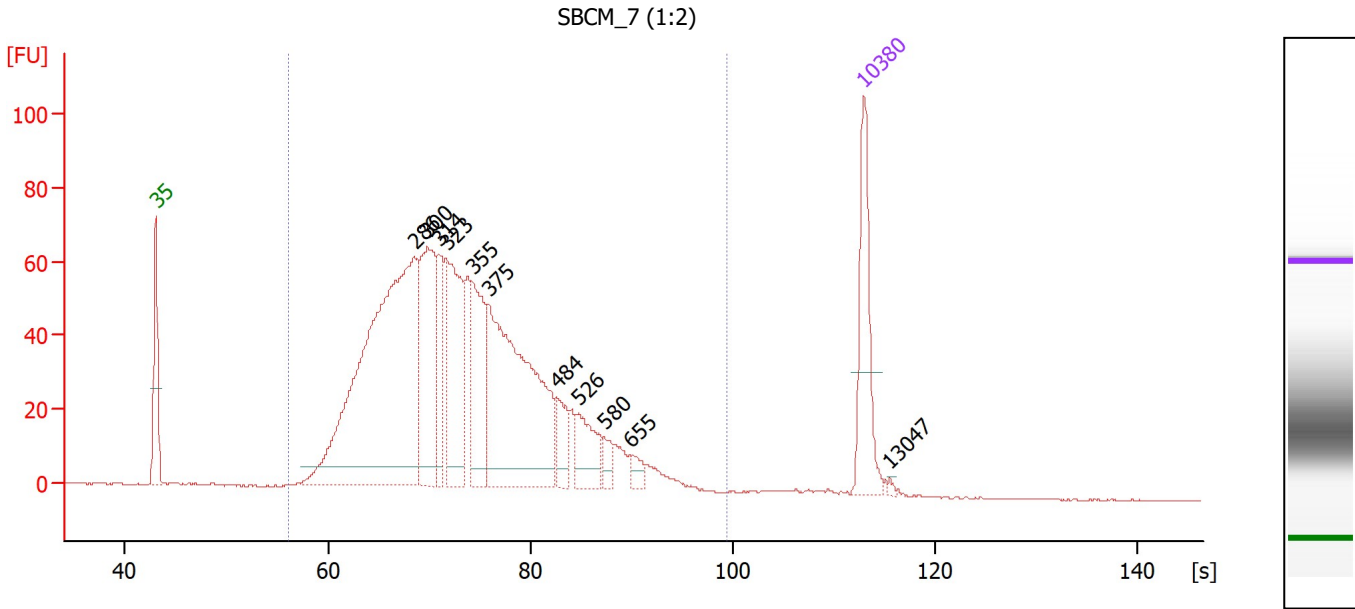
Region table for sample 6 : SBCM_6 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
155	1,764	2,180.1	99	367	36.2	2,997.27	14,108.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SBCM_7 (1:2)

Number of peaks found: 11 Corr. Area 1: 1,633.2
 Noise: 0.2

Peak table for sample 7 : SBCM_7 (1:2)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	286	597.67	3,164.0	
3	300	167.26	844.9	
4	314	69.77	336.8	
5	323	155.83	730.6	
6	355	102.92	439.3	
7	375	323.68	1,308.2	
8	484	33.96	106.2	
9	526	48.20	138.8	
10	580	15.01	39.2	
11	655	12.54	29.0	
12	10,380	75.00	10.9	Upper Marker
13	13,047	0.00	0.0	

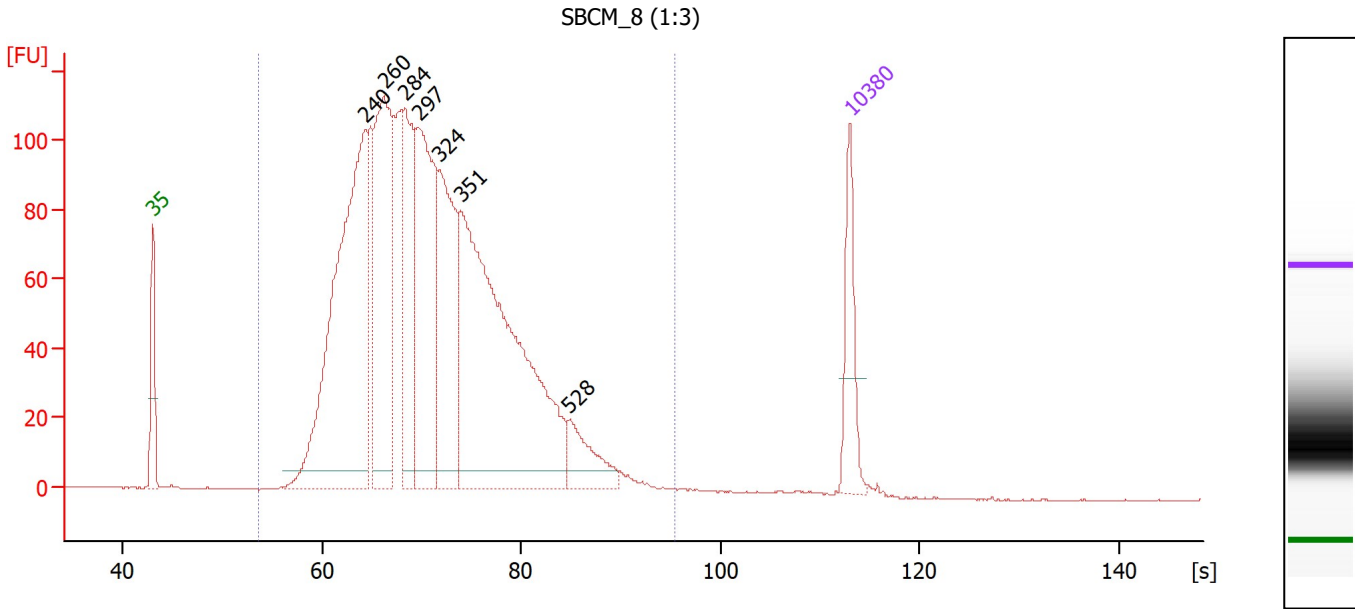
Region table for sample 7 : SBCM_7 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/µl]	Molarity [pmol/l]	Color
153	1,657	1,633.2	99	360	35.3	1,729.07	8,298.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SBCM_8 (1:3)

Number of peaks found: 7 Corr. Area 1: 2,702.3
 Noise: 0.2

Peak table for sample 8 : SBCM_8 (1:3)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	240	758.62	4,788.7	
3	260	414.02	2,409.0	
4	284	237.11	1,266.4	
5	297	379.58	1,936.0	
6	324	287.11	1,344.4	
7	351	778.56	3,365.3	
8	528	71.97	206.5	
9	10,380	75.00	10.9	Upper Marker

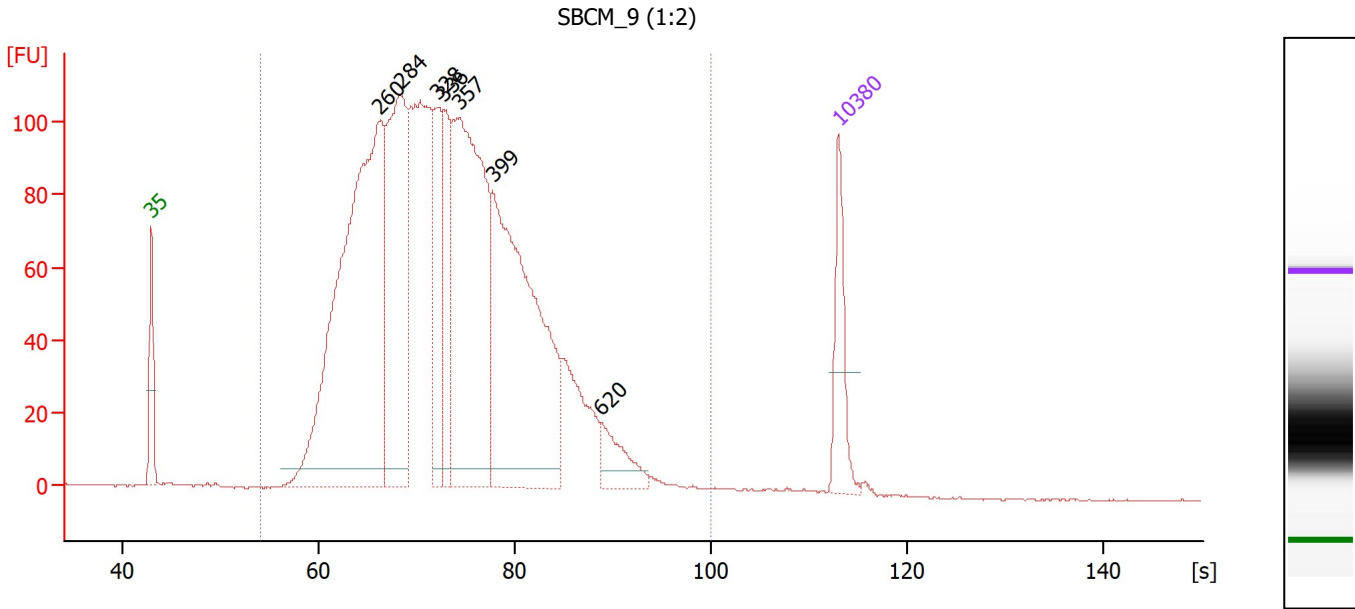
Region table for sample 8 : SBCM_8 (1:3)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
126	1,000	2,702.3	99	322	30.5	3,263.11	17,052.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : SBCM_9 (1:2)

Number of peaks found: 7 Corr. Area 1: 3,026.7
 Noise: 0.2

Peak table for sample 9 : SBCM_9 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	260	1,041.12	6,067.5	
3	284	454.77	2,429.5	
4	328	165.47	763.8	
5	336	140.98	634.9	
6	357	609.42	2,586.8	
7	399	604.51	2,297.4	
8	620	57.81	141.2	
9	10,380	75.00	10.9	Upper Marker

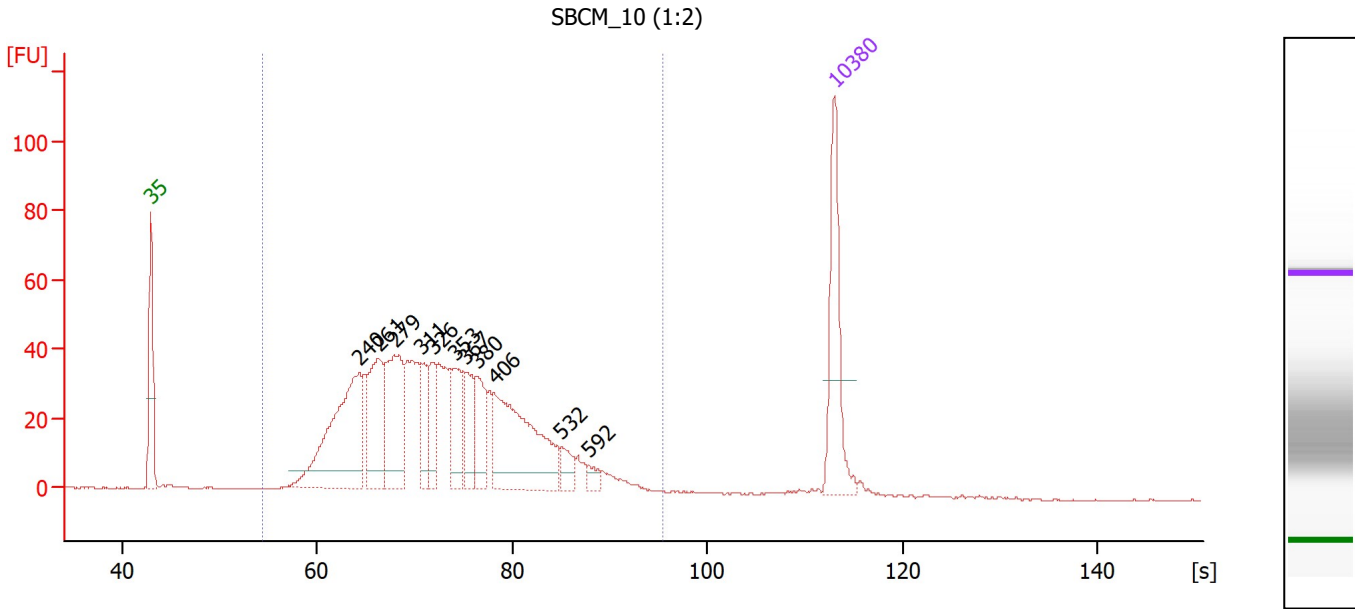
Region table for sample 9 : SBCM_9 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
132	1,761	3,026.7	99	356	36.2	3,781.98	18,382.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SBCM_10 (1:2)

Number of peaks found: 11 Corr. Area 1: 1,096.3
 Noise: 0.2

Peak table for sample 10 : SBCM_10 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	240	200.68	1,264.9	
3	261	100.02	580.3	
4	279	116.01	630.1	
5	311	36.47	177.9	
6	326	40.82	189.8	
7	353	58.83	252.8	
8	367	40.91	168.9	
9	380	47.60	189.7	
10	406	155.29	579.7	
11	532	16.57	47.2	
12	592	8.19	21.0	
13	10,380	75.00	10.9	Upper Marker

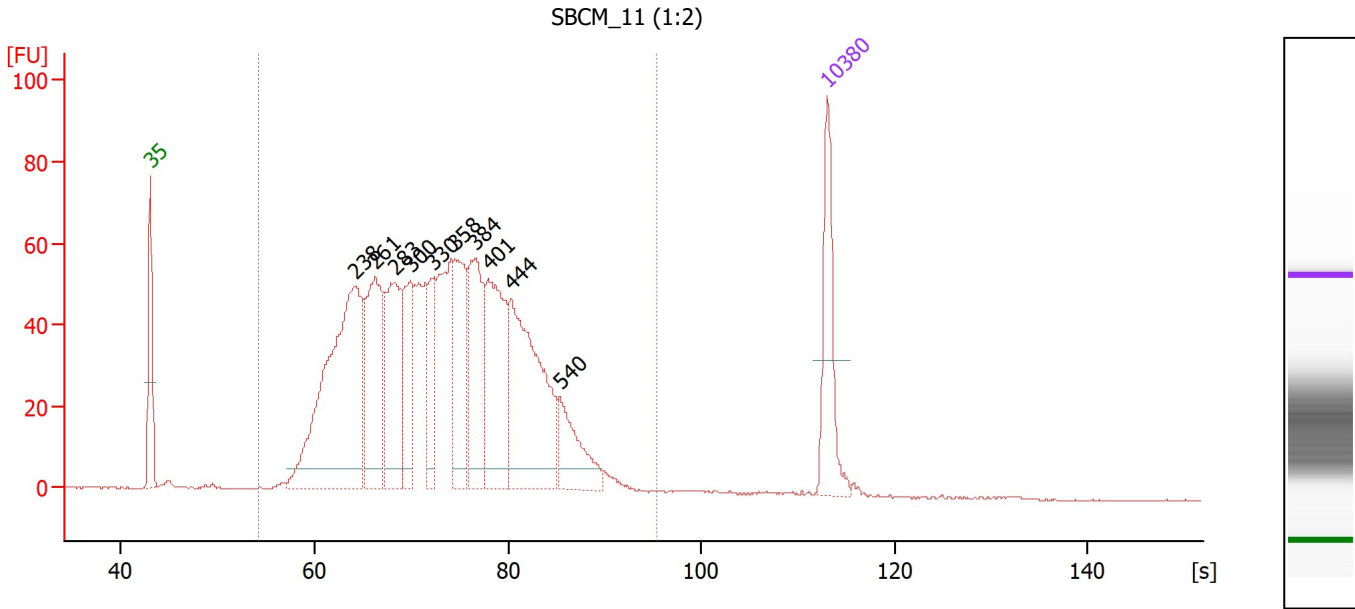
Region table for sample 10 : SBCM_10 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
136	1,000	1,096.3	98	349	32.4	1,106.73	5,463.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SBCM_11 (1:2)

Number of peaks found: 10 Corr. Area 1: 1,697.9
 Noise: 0.2

Peak table for sample 11 : SBCM_11 (1:2)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	238	427.53	2,722.1	
3	261	179.34	1,039.7	
4	283	161.46	864.6	
5	300	99.61	502.4	
6	330	68.11	312.5	
7	358	119.86	507.3	
8	384	127.95	504.3	
9	401	155.10	585.3	
10	444	230.33	786.5	
11	540	68.74	193.0	
12	10,380	75.00	10.9	Upper Marker

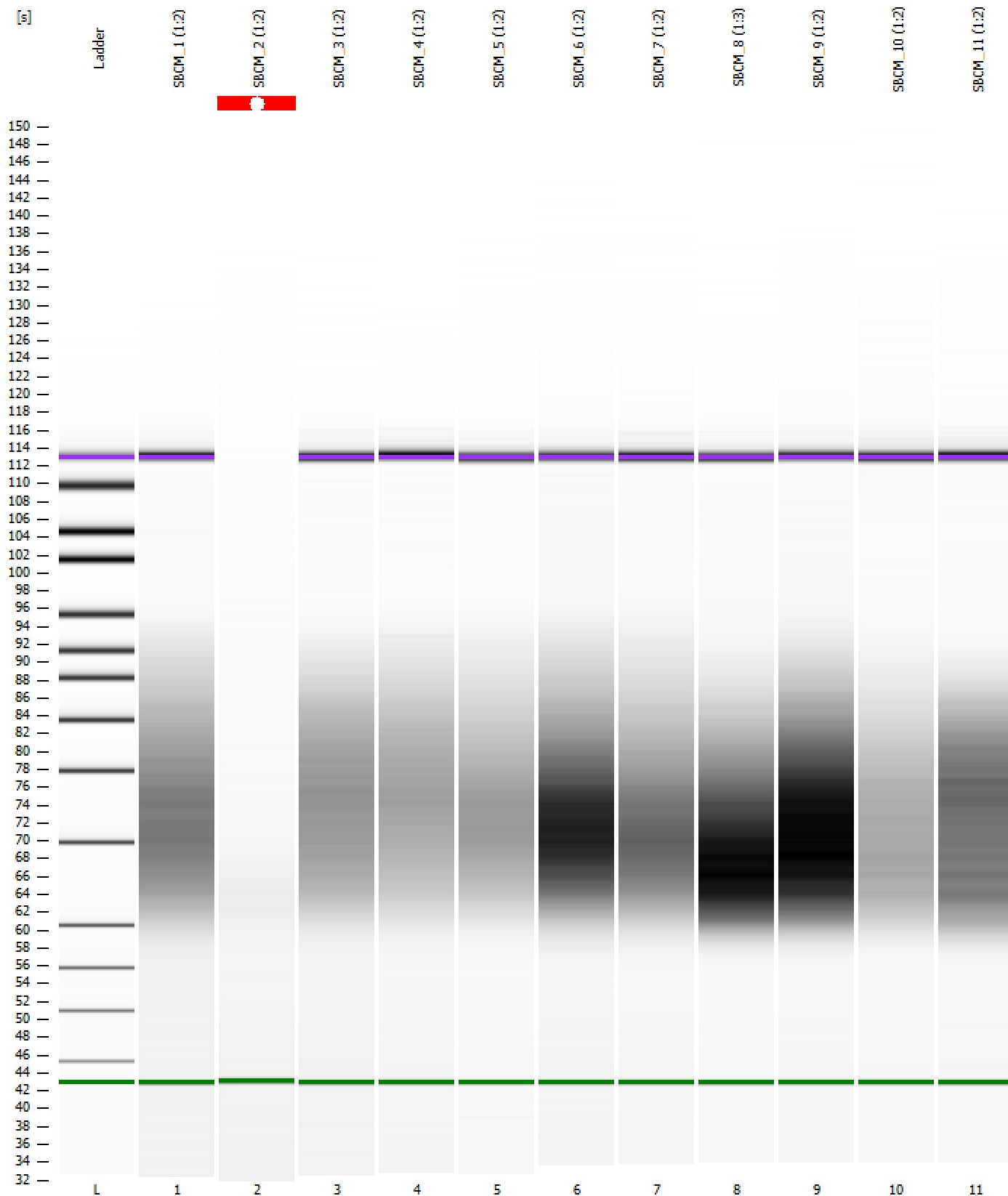
Region table for sample 11 : SBCM_11 (1:2)

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
132	1,000	1,697.9	99	352	30.4	2,005.60	9,829.1	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
Modified: 7/6/2020 4:59:22 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: Z:\...\Bioanalyzer1_High Sensitivity DNA Assay_2020-07-06_001.xad

Created: 7/6/2020 4:12:43 PM
 Modified: 7/6/2020 4:59:22 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		7/6/2020 4:54:02 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-07-06\Bioanalyze r1_High Sensitivity DNA Assay_2020-07-06_001.xad)		Instrument	Run		7/6/2020 4:12:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		7/6/2020 4:12:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		7/6/2020 4:12:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		7/6/2020 4:12:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		7/6/2020 4:12:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		7/6/2020 4:12:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		7/6/2020 4:12:49 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB