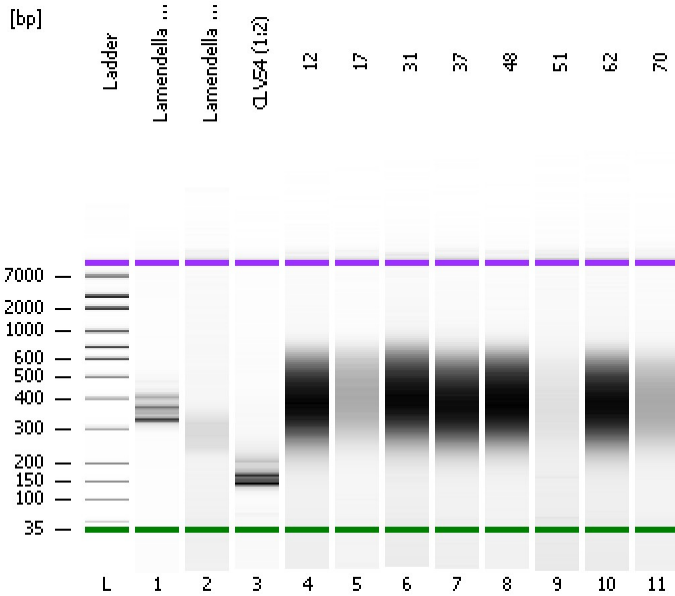


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
Modified: 5/3/2017 3:58:54 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

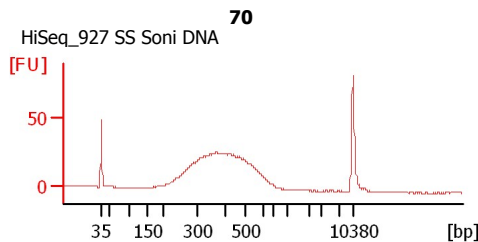
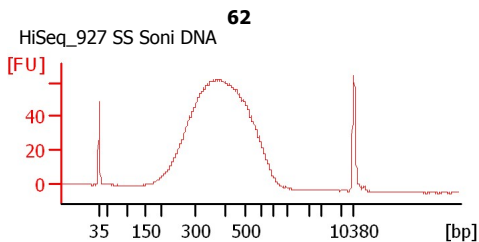
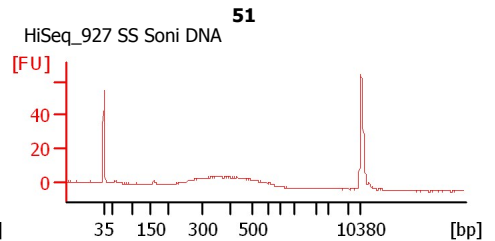
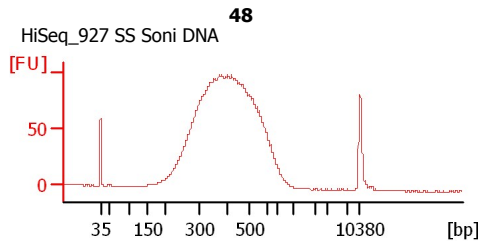
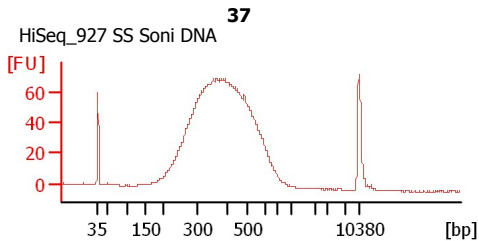
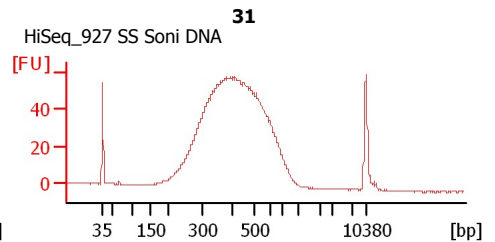
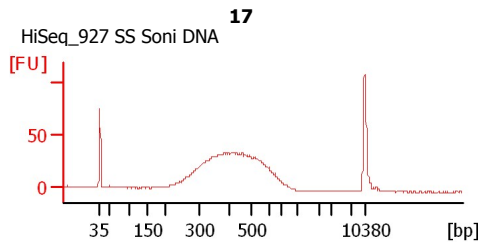
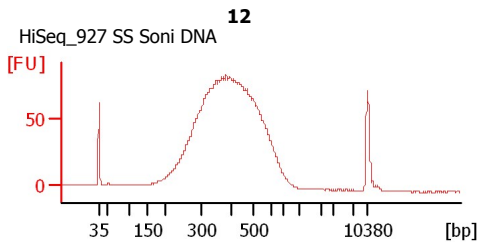
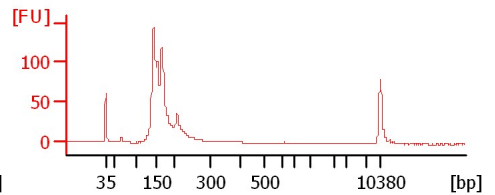
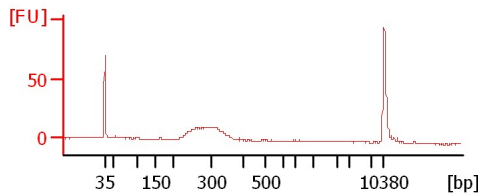
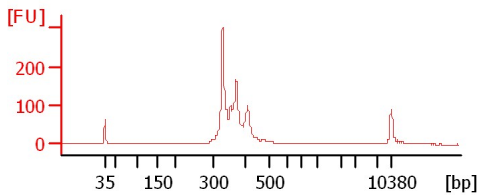
Chip Information:

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

Lamendella ITS 0517

Lamendella MG 0517

CLV54 (1:2)



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Lamendella ITS 0517		<input type="checkbox"/>	✓			
Lamendella MG 0517		<input type="checkbox"/>	✓			
CLVS4 (1:2)		<input type="checkbox"/>	✓			
12	HiSeq_927 SS Soni DNA	<input type="checkbox"/>	✓			
17	HiSeq_927 SS Soni DNA	<input type="checkbox"/>	✓			
31	HiSeq_927 SS Soni DNA	<input type="checkbox"/>	✓			
37	HiSeq_927 SS Soni DNA	<input type="checkbox"/>	✓			
48	HiSeq_927 SS Soni DNA	<input type="checkbox"/>	✓			
51	HiSeq_927 SS Soni DNA	<input type="checkbox"/>	✓			
62	HiSeq_927 SS Soni DNA	<input type="checkbox"/>	✓			
70	HiSeq_927 SS Soni DNA	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

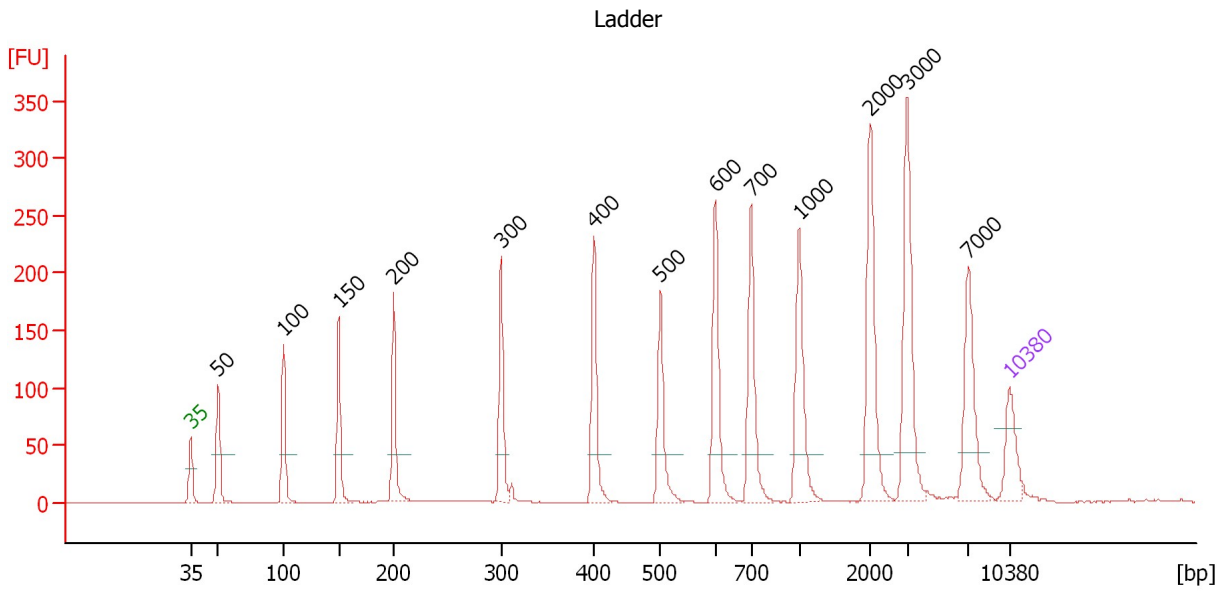
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

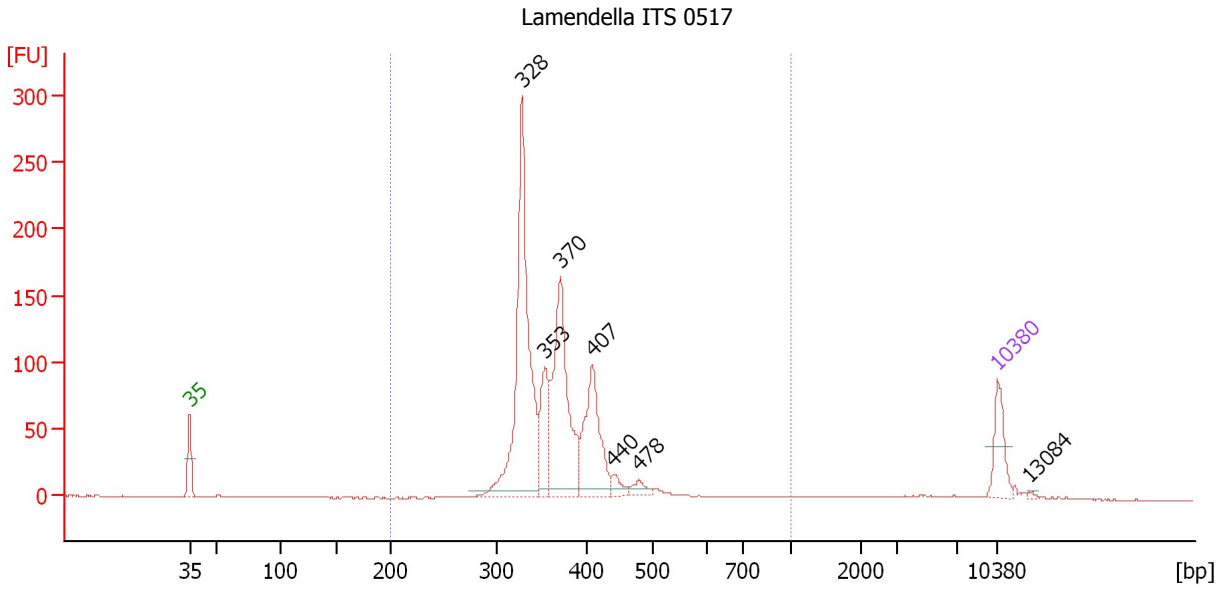
Peak table for Ladder

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	45.37
3	100	150.00	2,272.7	Ladder Peak	50.93
4	150	150.00	1,515.2	Ladder Peak	55.68
5	200	150.00	1,136.4	Ladder Peak	60.37
6	300	150.00	757.6	Ladder Peak	69.54
7	400	150.00	568.2	Ladder Peak	77.48
8	500	150.00	454.5	Ladder Peak	83.18
9	600	150.00	378.8	Ladder Peak	87.87
10	700	150.00	324.7	Ladder Peak	90.93
11	1,000	150.00	227.3	Ladder Peak	95.03
12	2,000	150.00	113.6	Ladder Peak	101.10
13	3,000	150.00	75.8	Ladder Peak	104.29
14	7,000	150.00	32.5	Ladder Peak	109.53
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Lamendella ITS 0517

Number of peaks found: 7 Corr. Area 1: 1,236.7
 Noise: 0.2

Peak table for sample 1 : Lamendella ITS 0517

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	328	733.05	3,383.2		71.79
3	353	161.34	691.8		73.77
4	370	446.27	1,826.4		75.11
5	407	259.75	966.6		77.88
6	440	29.36	101.2		79.73
7	478	26.68	84.6		81.90
8	10,380	75.00	10.9	Upper Marker	113.00
9	13,084	0.00	0.0		115.77

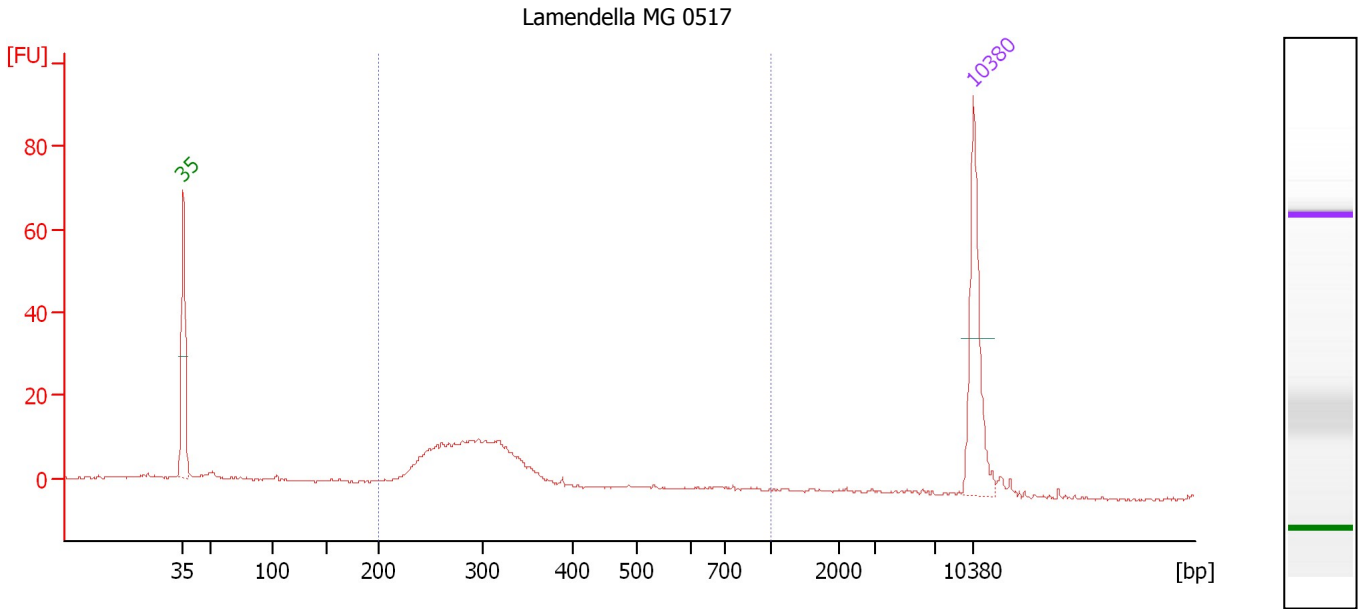
Region table for sample 1 : Lamendella ITS 0517

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	370	1,236.7	7,232.7	1,729.56	96	16.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Lamendella MG 0517

Number of peaks found: 0 Corr. Area 1: 155.3
Noise: 0.2

Peak table for sample 2 : Lamendella MG 0517

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	10,380	75.00	10.9	Upper Marker	113.00

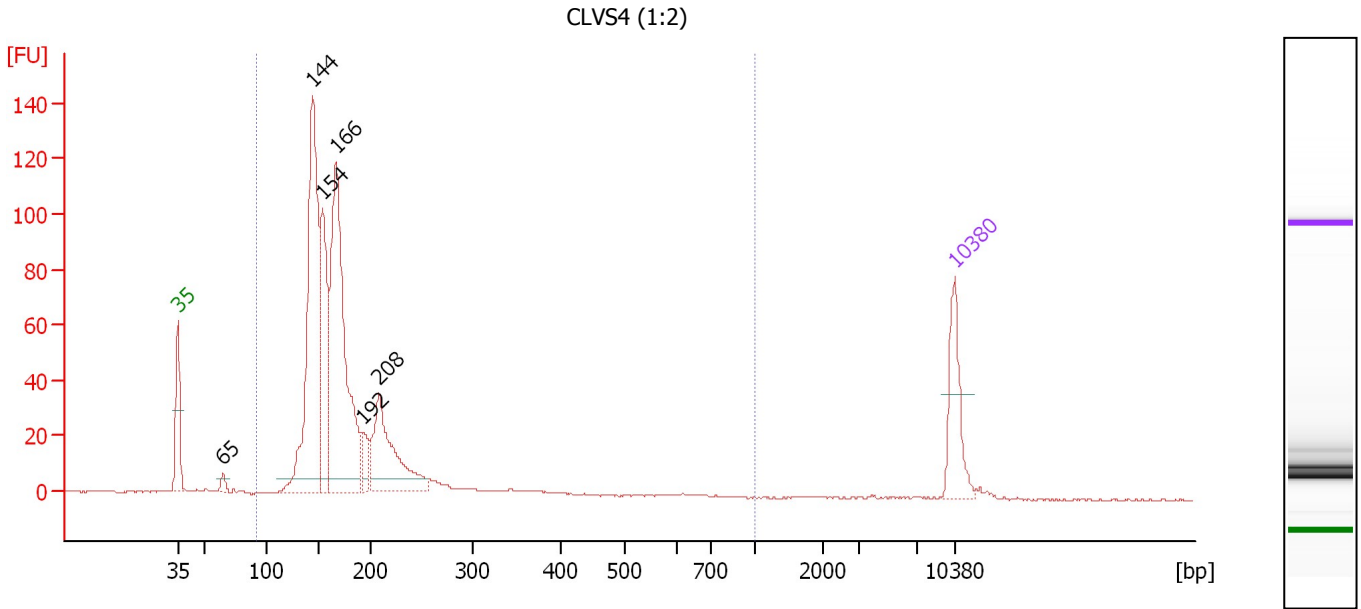
Region table for sample 2 : Lamendella MG 0517

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	297	155.3	1,194.5	226.60	78	21.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CLVS4 (1:2)

Number of peaks found: 6 Corr. Area 1: 959.9
 Noise: 0.2

Peak table for sample 3 : CLVS4 (1:2)

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	65	14.50	335.9		47.08
3	144	569.17	5,968.4		55.16
4	154	249.03	2,447.7		56.07
5	166	579.16	5,272.6		57.22
6	192	40.22	317.4		59.62
7	208	210.52	1,533.1		61.11
8	10,380	75.00	10.9	Upper Marker	113.00

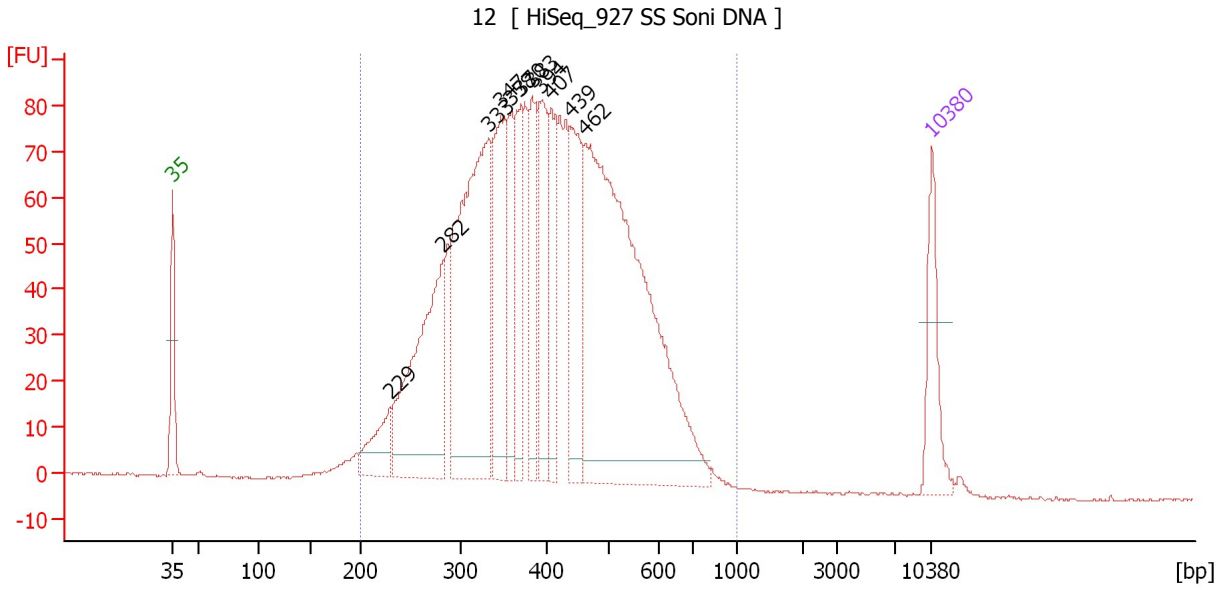
Region table for sample 3 : CLVS4 (1:2)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
93	1,000	175	959.9	15,555.9	1,700.62	98	26.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 12

Number of peaks found: 11 Corr. Area 1: 2,166.8
 Noise: 0.2

Peak table for sample 4 : 12

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	229	79.42	526.1		63.01
3	282	362.10	1,943.1		67.92
4	333	545.73	2,483.9		72.15
5	347	238.03	1,040.8		73.23
6	358	106.94	452.3		74.17
7	370	114.00	466.8		75.10
8	383	121.04	478.8		76.13
9	394	149.01	573.6		76.97
10	407	127.40	473.7		77.90
11	439	173.87	600.8		79.67
12	462	879.11	2,884.3		81.00
13	10,380	75.00	10.9	Upper Marker	113.00

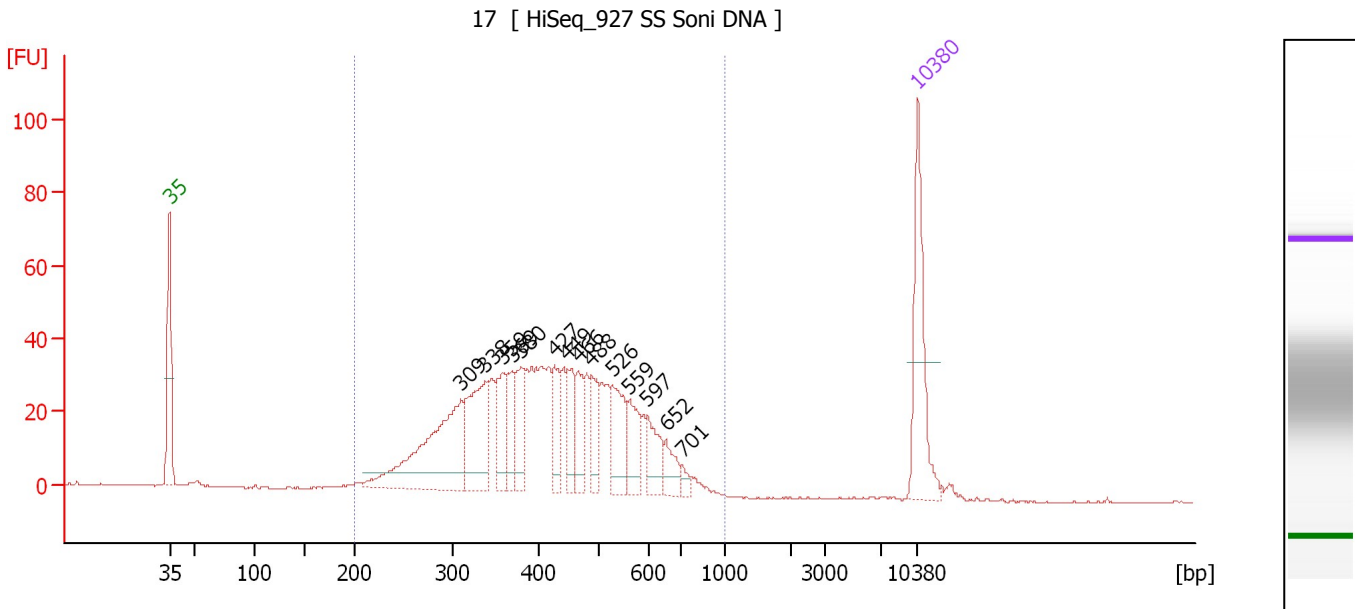
Region table for sample 4 : 12

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	409	2,166.8	13,549.4	3,302.86	99	27.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 17

Number of peaks found: 14 Corr. Area 1: 898.2
 Noise: 0.2

Peak table for sample 5 : 17

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	309	179.99	881.3		70.29
3	338	100.50	450.0		72.59
4	359	46.60	196.9		74.18
5	369	37.08	152.2		75.03
6	380	39.97	159.4		75.88
7	427	39.97	141.8		79.02
8	449	34.27	115.6		80.27
9	466	35.24	114.7		81.22
10	488	37.36	116.1		82.47
11	526	52.90	152.3		84.41
12	559	36.09	97.8		85.96
13	597	33.36	84.6		87.75
14	652	20.83	48.4		89.45
15	701	8.35	18.0		90.95
16	10,380	75.00	10.9	Upper Marker	113.00

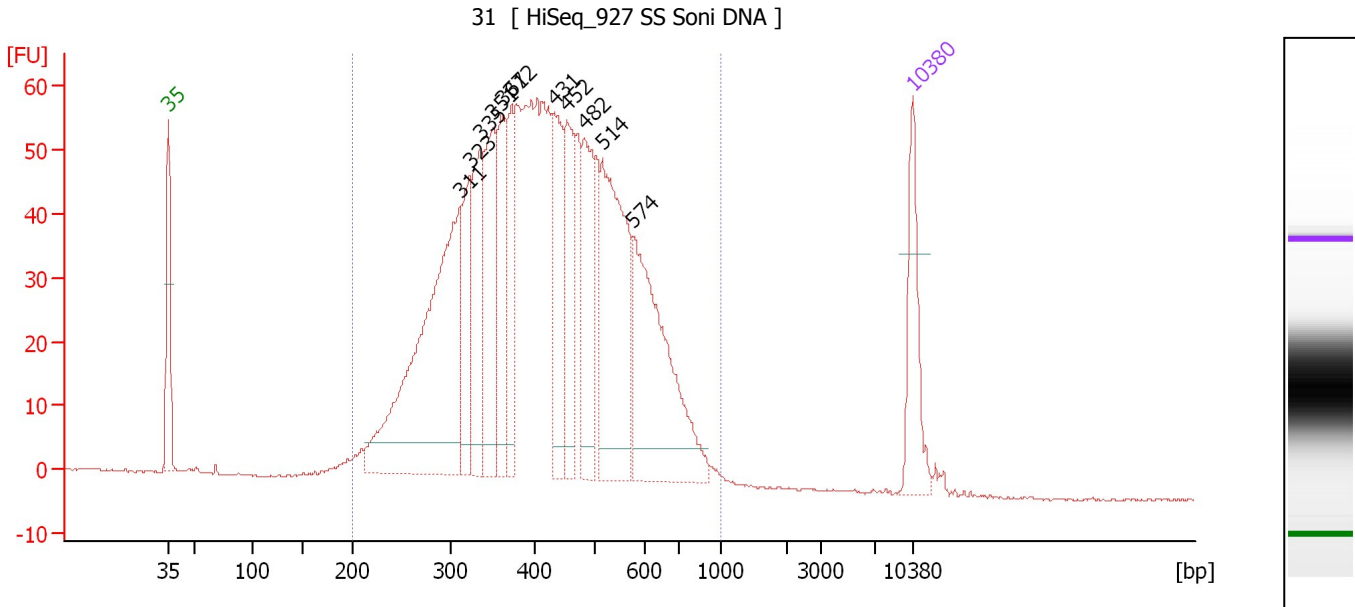
Region table for sample 5 : 17

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	429	898.2	3,947.9	1,006.11	98	27.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 31

Number of peaks found: 11 Corr. Area 1: 1,564.6
 Noise: 0.2

Peak table for sample 6 : 31

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	311	513.39	2,499.7		70.43
3	323	110.85	519.7		71.38
4	335	144.54	654.6		72.28
5	351	170.20	734.7		73.59
6	361	111.85	469.3		74.39
7	372	97.80	398.5		75.24
8	431	139.04	488.6		79.25
9	452	115.53	387.0		80.46
10	482	140.64	441.9		82.16
11	514	278.47	821.4		83.82
12	574	272.17	717.8		86.67
13	10,380	75.00	10.9	Upper Marker	113.00

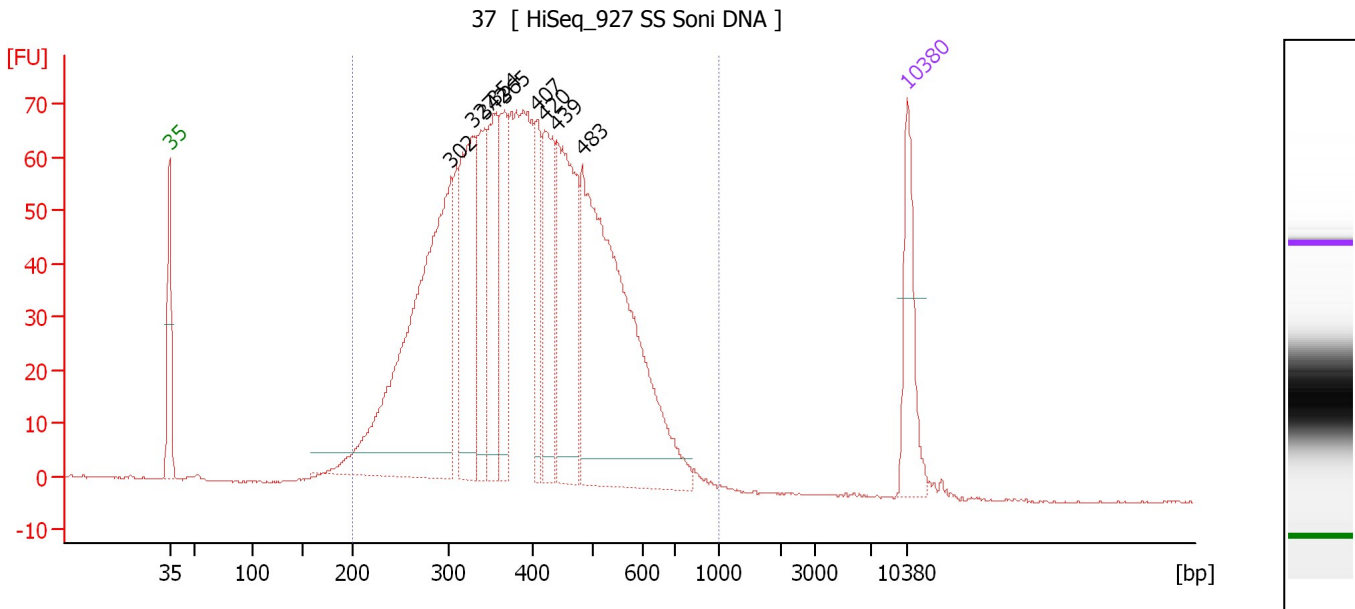
Region table for sample 6 : 31

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	430	1,564.6	11,171.9	2,835.01	99	28.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 37

Number of peaks found: 9 Corr. Area 1: 1,857.6
 Noise: 0.2

Peak table for sample 7 : 37

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	302	600.30	3,011.0		69.71
3	327	245.06	1,135.7		71.68
4	342	124.51	551.2		72.89
5	354	160.54	687.7		73.80
6	365	110.77	459.6		74.71
7	407	80.56	300.3		77.85
8	420	149.08	538.0		78.61
9	439	240.97	831.0		79.72
10	483	544.61	1,709.0		82.20
11	10,380	75.00	10.9	Upper Marker	113.00

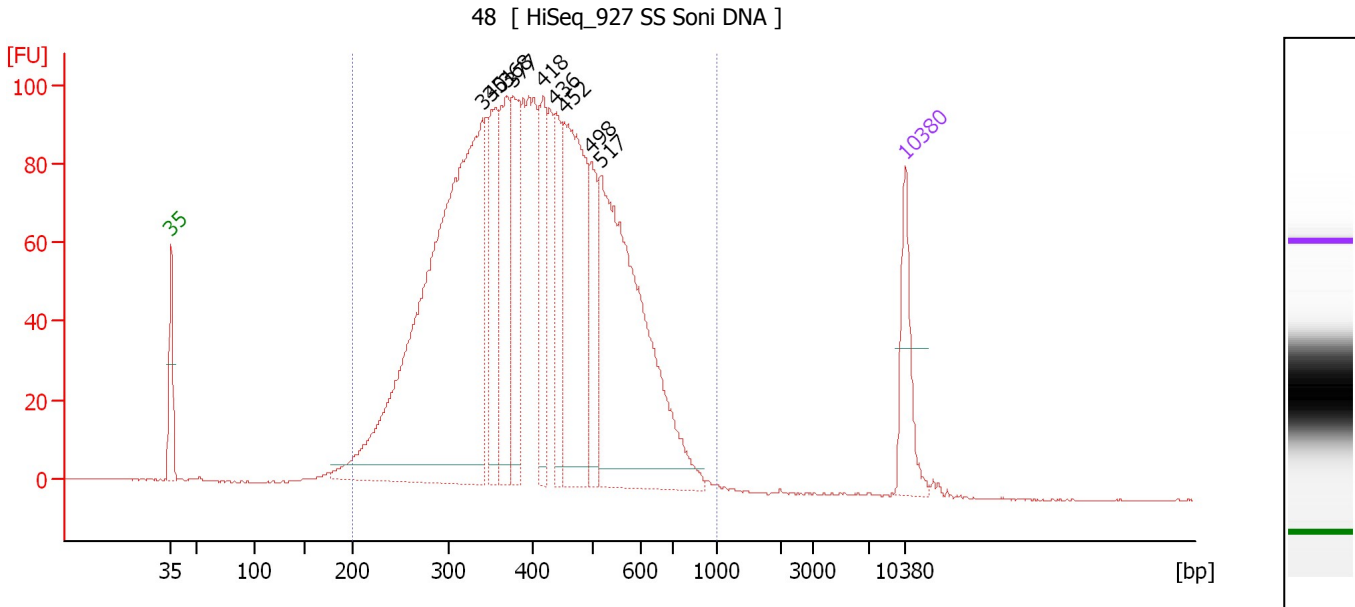
Region table for sample 7 : 37

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	403	1,857.6	11,432.4	2,741.06	98	27.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 48

Number of peaks found: 9 Corr. Area 1: 2,629.0
 Noise: 0.2

Peak table for sample 8 : 48

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	340	1,130.66	5,043.6		72.69
3	351	181.36	783.9		73.55
4	368	187.52	772.4		74.92
5	377	176.70	710.5		75.64
6	418	139.05	504.4		78.48
7	436	117.20	406.9		79.55
8	452	355.99	1,192.1		80.47
9	498	115.39	351.1		83.06
10	517	590.55	1,730.8		83.97
11	10,380	75.00	10.9	Upper Marker	113.00

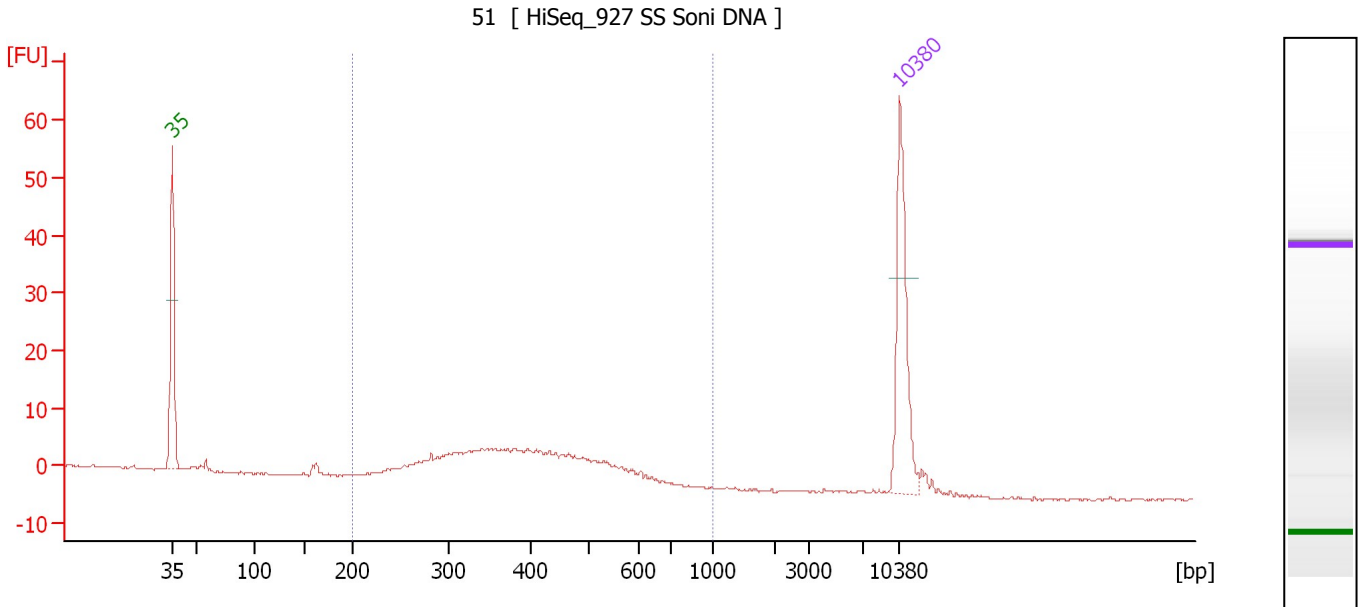
Region table for sample 8 : 48

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	415	2,629.0	14,459.4	3,558.27	99	27.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 51

Number of peaks found: 0 Corr. Area 1: 124.1
 Noise: 0.2

Peak table for sample 9 : 51

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	10,380	75.00	10.9	Upper Marker	113.00

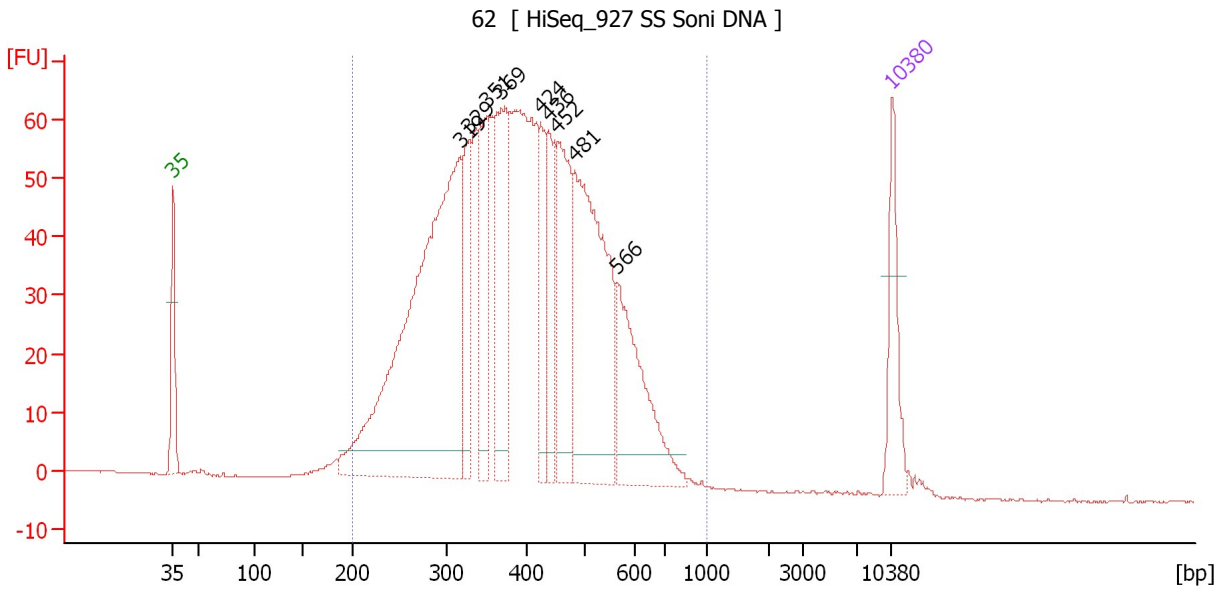
Region table for sample 9 : 51

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	400	124.1	894.9	217.18	93	24.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 62

Number of peaks found: 9 Corr. Area 1: 1,653.9
 Noise: 0.1

Peak table for sample 10 : 62

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	319	887.36	4,215.8		71.04
3	329	122.63	565.2		71.82
4	351	174.81	754.6		73.59
5	369	215.07	883.9		74.99
6	424	94.46	337.7		78.83
7	436	105.56	367.1		79.51
8	452	184.81	619.5		80.44
9	481	423.33	1,333.0		82.10
10	566	209.47	561.2		86.26
11	10,380	75.00	10.9	Upper Marker	113.00

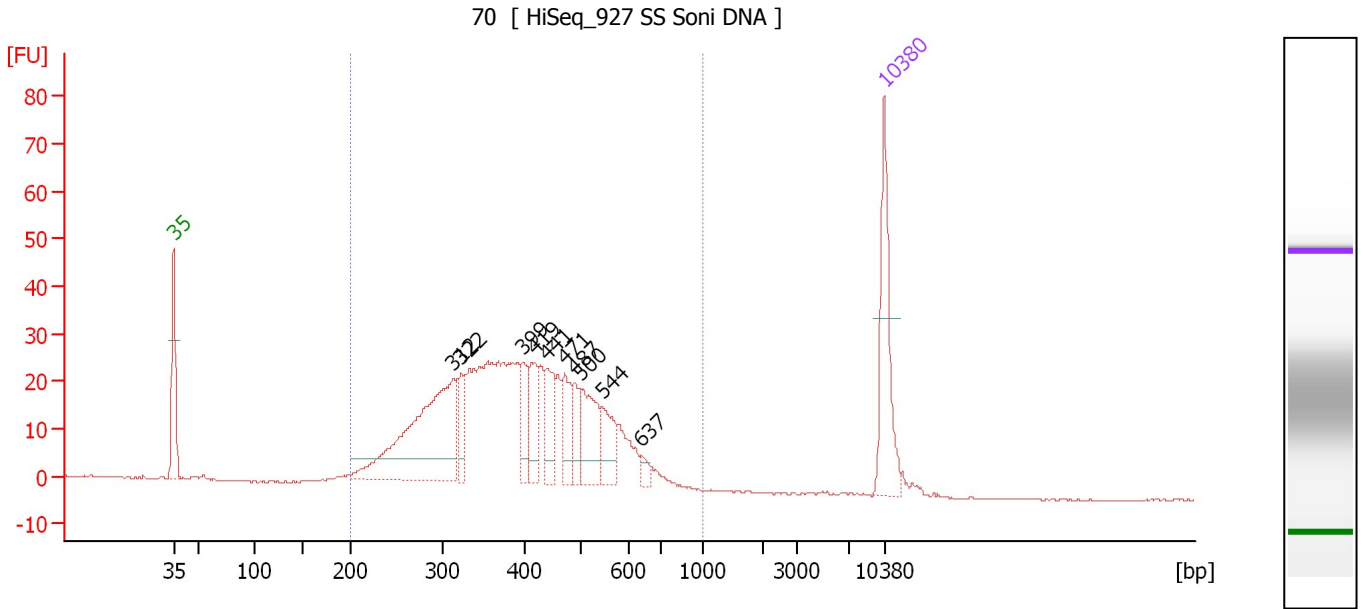
Region table for sample 10 : 62

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	402	1,653.9	13,354.3	3,201.26	98	27.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
 Modified: 5/3/2017 3:58:54 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 70

Number of peaks found: 10 Corr. Area 1: 659.2
 Noise: 0.1

Peak table for sample 11 : 70

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	312	250.37	1,214.7		70.52
3	322	34.26	161.1		71.30
4	399	37.42	142.1		77.40
5	419	44.03	159.3		78.55
6	441	47.80	164.2		79.81
7	471	41.33	132.8		81.54
8	487	27.07	84.2		82.44
9	500	60.83	184.3		83.17
10	544	39.53	110.2		85.22
11	637	8.45	20.1		89.00
12	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : 70

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	404	659.2	4,251.2	1,026.77	98	26.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-05-03\2017-05-03_004.xad

Created: 5/3/2017 2:28:48 PM
Modified: 5/3/2017 3:58:54 PM

Gel Image

