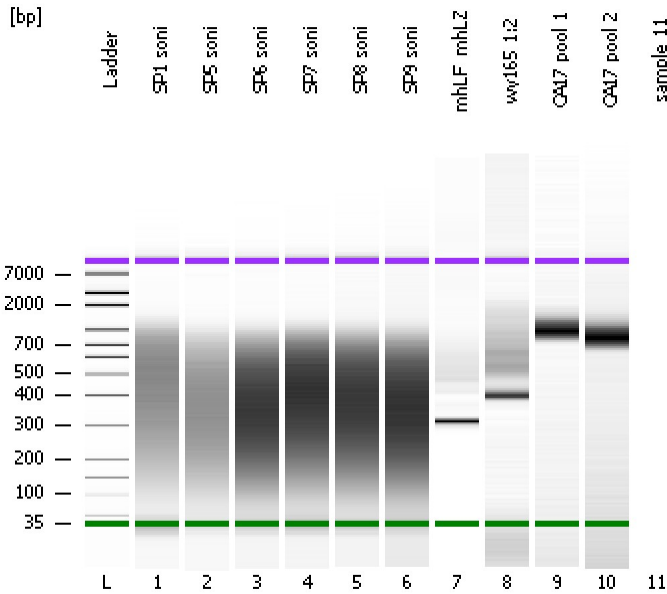


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
Modified: 6/10/2014 2:11:13 PM

Electrophoresis File Run Summary



Instrument Information:

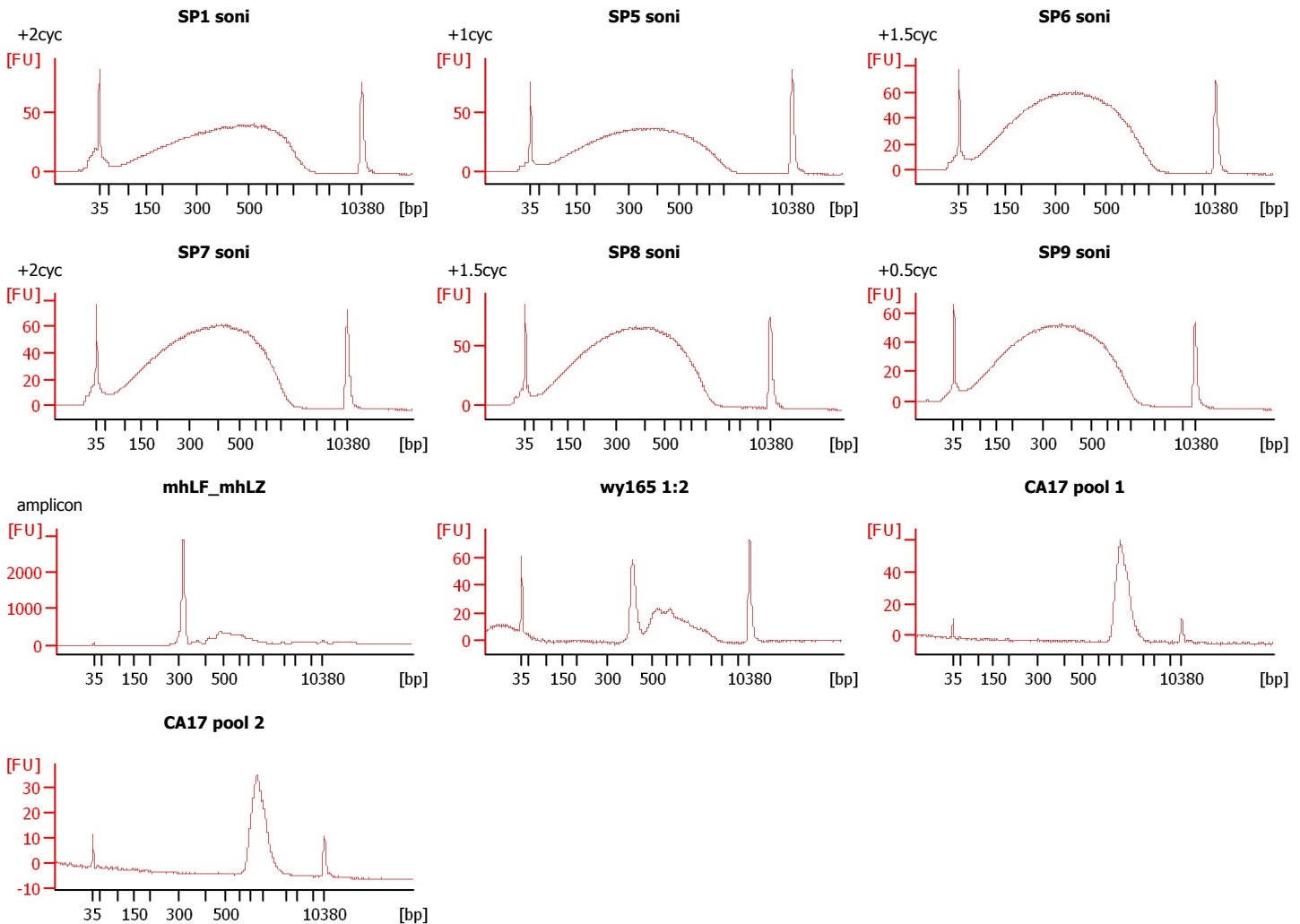
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SP1 soni	+2cyc	<input type="checkbox"/>	✓			
SP5 soni	+1cyc	<input type="checkbox"/>	✓			
SP6 soni	+1.5cyc	<input type="checkbox"/>	✓			
SP7 soni	+2cyc	<input type="checkbox"/>	✓			
SP8 soni	+1.5cyc	<input type="checkbox"/>	✓			
SP9 soni	+0.5cyc	<input type="checkbox"/>	✓			
mhLF_mhLZ	amplicon	<input type="checkbox"/>	✓			
wy165 1:2		<input type="checkbox"/>	✓			
CA17 pool 1		<input type="checkbox"/>	✓			
CA17 pool 2		<input type="checkbox"/>	✓			
sample 11		<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\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
Modified: 6/10/2014 2:11:13 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

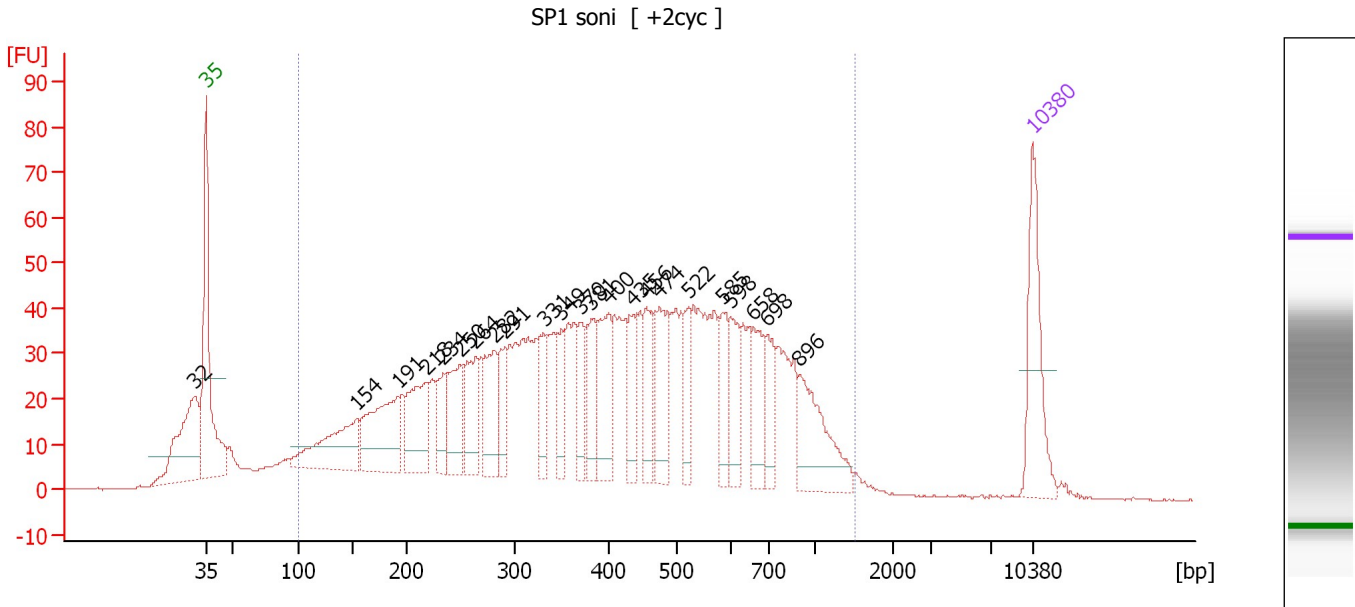
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary



Overall Results for sample 1 : SP1 soni

Number of peaks found: 23 Corr. Area 1: 1,889.0
 Noise: 0.2

Peak table for sample 1 : SP1 soni


Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	32	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	154	124.96	1,232.9	
4	191	135.73	1,074.0	
5	218	99.46	692.1	
6	234	46.95	303.8	
7	250	79.78	484.3	
8	264	69.85	400.9	
9	282	79.24	425.9	
10	291	47.58	247.4	
11	331	37.24	170.4	
12	349	36.88	160.0	
13	370	42.85	175.5	
14	381	51.20	203.5	
15	400	75.33	285.6	
16	435	46.95	163.5	
17	456	45.13	150.0	
18	474	66.91	213.9	
19	522	37.47	108.7	
20	585	49.88	129.2	
21	598	47.41	120.0	
22	658	57.59	132.6	
23	698	38.75	84.1	
24	896	85.93	145.4	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...

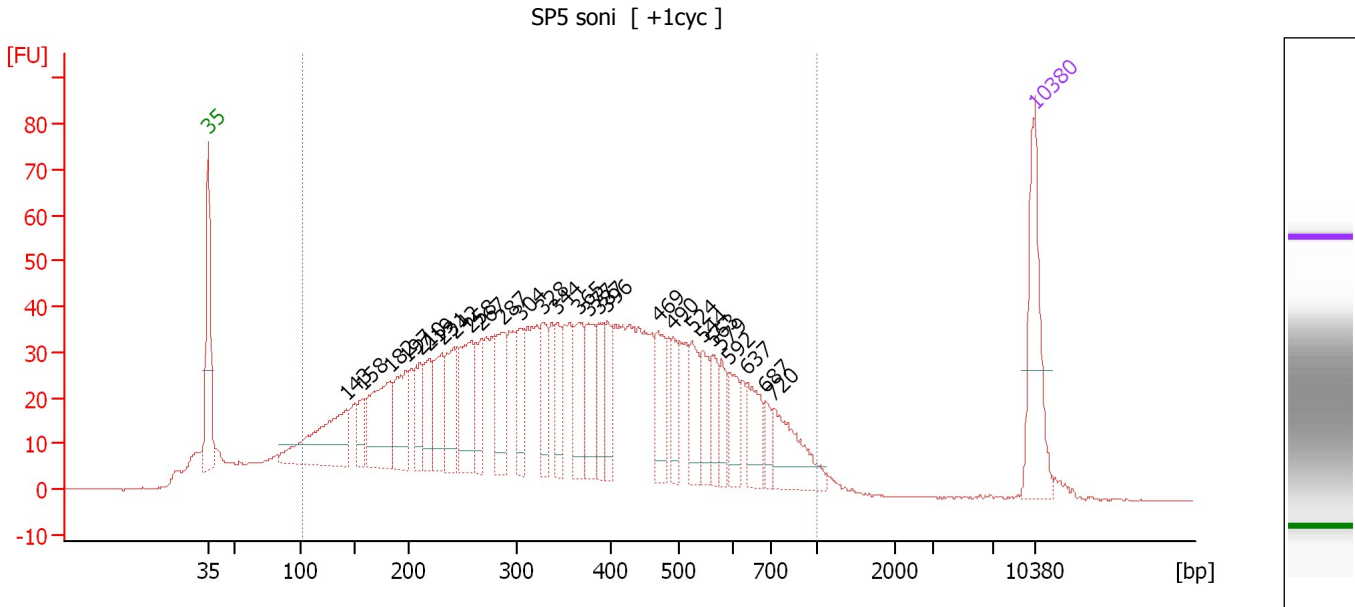
... Region table for sample 1 : SP1 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
101	1,514	448	13,272.5	2,621.23	 1,889.0	90	51.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SP5 soni

Number of peaks found: 28 Corr. Area 1: 1,775.4
 Noise: 0.2

Peak table for sample 2 : SP5 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	143	136.87	1,451.5	
3	158	30.55	293.0	
4	182	108.48	902.5	
5	197	69.78	535.6	
6	210	45.52	328.0	
7	219	46.75	323.8	
8	231	61.10	401.3	
9	242	62.77	392.8	
10	258	87.31	512.7	
11	267	44.14	250.5	
12	287	68.33	360.2	
13	304	47.58	237.4	
14	328	46.46	214.4	
15	344	36.65	161.6	
16	365	56.71	235.1	
17	377	52.79	212.0	
18	387	41.58	162.7	
19	396	35.70	136.5	
20	469	45.58	147.2	
21	490	36.82	113.7	
22	524	39.53	114.2	
23	544	34.81	97.0	
24	563	29.51	79.4	
25	579	25.42	66.5	
26	592	33.36	85.4	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : SP5 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	637	39.95	95.1	
28	687	16.41	36.2	
29	720	64.28	135.4	
30	10,380	75.00	10.9	Upper Marker

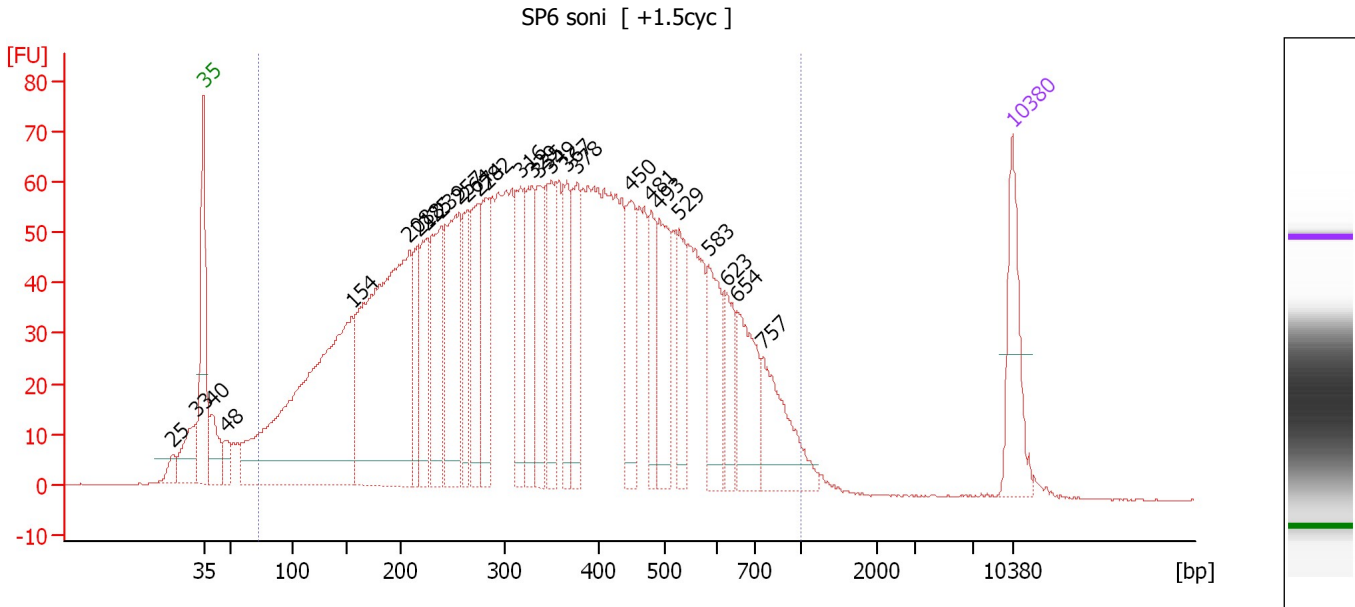
Region table for sample 2 : SP5 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
103	1,000	378	13,705.7	2,439.18	1,775.3	90	45.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SP6 soni

Number of peaks found: 27 Corr. Area 1: 2,962.4
 Noise: 0.2

Peak table for sample 3 : SP6 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	25	0.00	0.0	
2	33	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	40	63.55	2,417.7	
5	48	27.56	865.1	
6	154	666.87	6,540.5	
7	208	592.42	4,307.8	
8	218	81.45	567.4	
9	225	114.15	770.0	
10	239	164.47	1,041.2	
11	257	203.35	1,200.7	
12	264	83.51	478.9	
13	274	108.77	600.6	
14	282	115.56	620.9	
15	316	116.50	558.0	
16	329	107.42	494.8	
17	335	100.80	455.6	
18	349	110.21	478.4	
19	367	93.97	388.2	
20	378	91.36	366.5	
21	450	97.64	328.7	
22	481	65.25	205.6	
23	493	104.12	320.1	
24	529	75.30	215.6	
25	583	91.08	236.8	
26	623	56.36	137.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

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Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...**... Peak table for sample 3 : SP6 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	654	96.95	224.6	
28	757	103.75	207.6	
29	▶ 10,380	75.00	10.9	Upper Marker

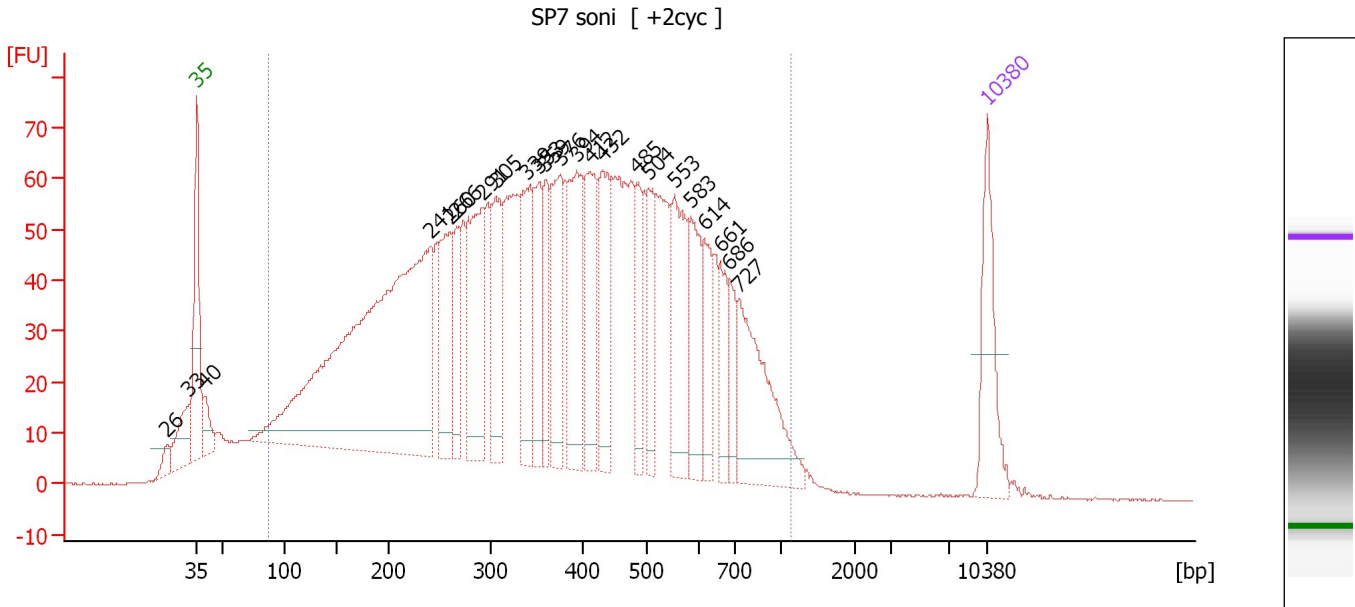
Region table for sample 3 : SP6 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
73	1,000	366	29,074.8	4,712.52	■ 2,962.4	94	46.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SP7 soni

Number of peaks found: 23 Corr. Area 1: 2,912.9
 Noise: 0.2

Peak table for sample 4 : SP7 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	26	0.00	0.0	
2	33	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	40	39.14	1,496.6	
5	241	861.37	5,417.7	
6	260	130.82	763.5	
7	266	66.76	379.8	
8	291	180.00	938.0	
9	305	116.27	577.9	
10	339	123.05	549.3	
11	353	86.21	370.2	
12	359	65.54	276.3	
13	376	118.36	477.3	
14	394	144.45	555.6	
15	412	114.21	419.9	
16	432	112.79	395.7	
17	485	61.44	192.0	
18	504	76.56	230.3	
19	553	119.14	326.7	
20	583	86.87	225.7	
21	614	60.85	150.1	
22	661	46.57	106.8	
23	686	40.77	90.0	
24	727	158.35	329.9	
25	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...

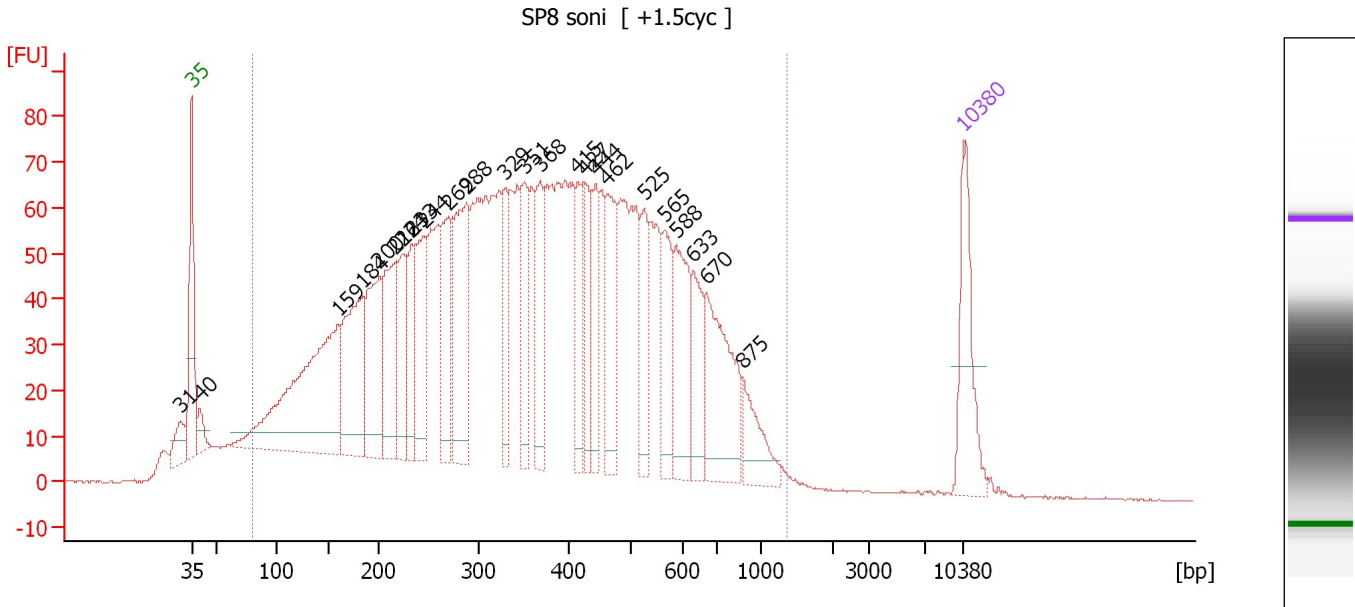
... Region table for sample 4 : SP7 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
87	1,156	397	24,047.1	4,291.95	 2,912.9	92	46.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SP8 soni

Number of peaks found: 24 Corr. Area 1: 3,196.1
 Noise: 0.2

Peak table for sample 5 : SP8 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	31	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	40	26.94	1,018.9	
4	159	395.25	3,763.2	
5	184	182.47	1,503.2	
6	200	155.42	1,179.1	
7	216	139.58	978.0	
8	224	83.22	563.7	
9	233	84.89	552.7	
10	244	112.80	699.2	
11	269	99.34	559.7	
12	288	182.62	962.2	
13	329	71.17	327.5	
14	351	79.85	344.3	
15	368	82.00	337.4	
16	415	71.85	262.6	
17	427	61.16	216.9	
18	444	64.93	221.5	
19	462	88.91	291.6	
20	525	70.77	204.2	
21	565	78.17	209.7	
22	588	100.01	257.8	
23	633	64.04	153.4	
24	670	139.51	315.7	
25	875	50.27	87.1	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...

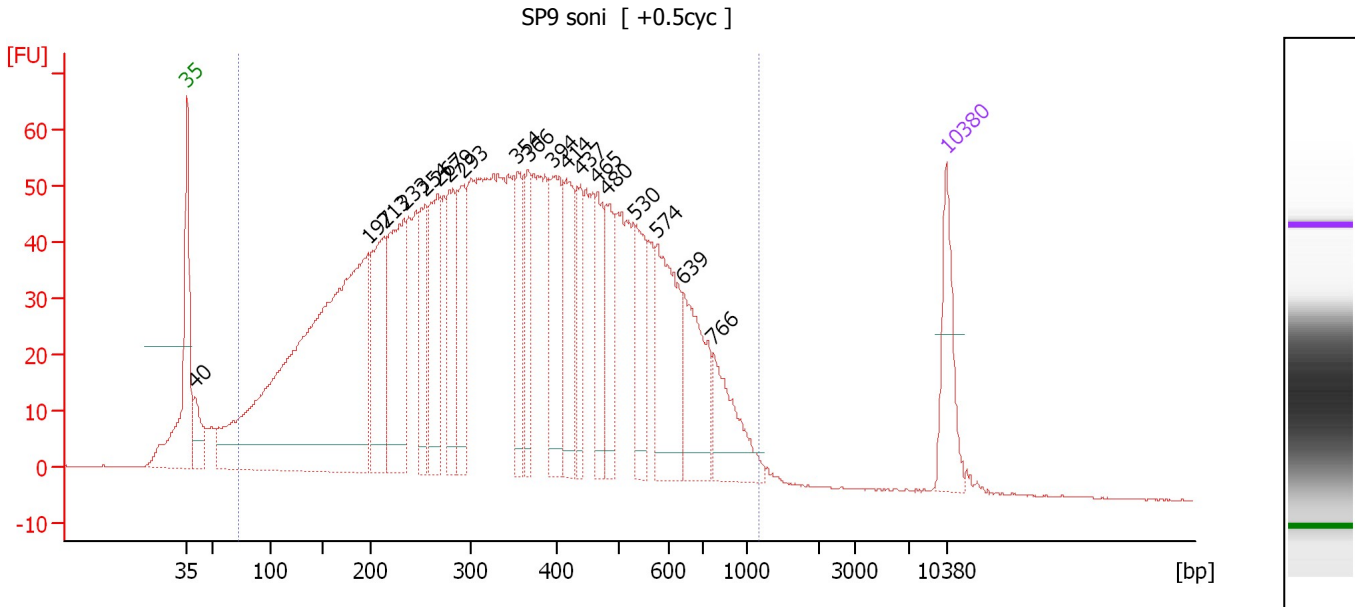
... Region table for sample 5 : SP8 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
80	1,361	387	25,385.4	4,343.43	 3,196.1	94	48.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SP9 soni

Number of peaks found: 19 Corr. Area 1: 2,608.5
 Noise: 0.1

Peak table for sample 6 : SP9 soni

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	40	68.35	2,600.5	
3	197	1,118.78	8,589.1	
4	213	211.40	1,503.6	
5	233	243.71	1,584.6	
6	254	125.47	748.1	
7	267	176.55	1,001.5	
8	279	133.04	722.4	
9	293	116.30	602.4	
10	354	85.69	366.9	
11	366	90.23	373.5	
12	394	154.94	595.6	
13	414	120.45	440.7	
14	437	77.45	268.3	
15	465	88.52	288.5	
16	480	85.39	269.3	
17	530	103.59	296.2	
18	574	173.02	456.4	
19	639	137.57	326.3	
20	766	101.51	200.9	
21	10,380	75.00	10.9	Upper Marker

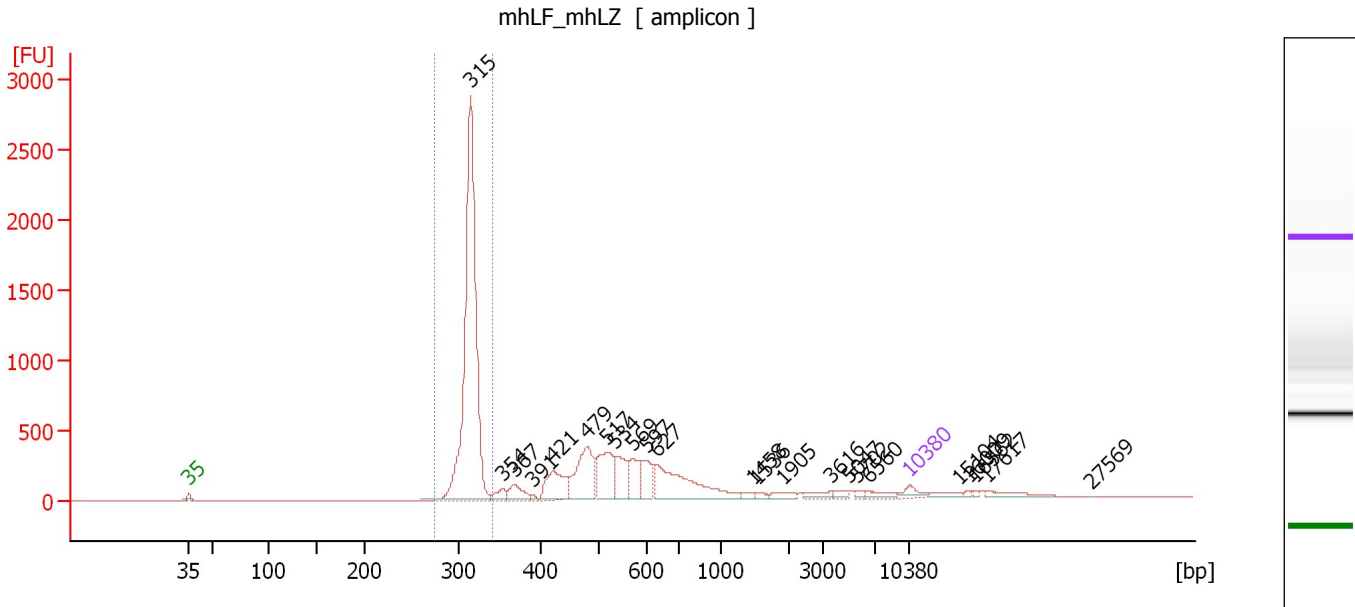
Region table for sample 6 : SP9 soni

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
73	1,160	370	31,199.5	5,094.51	2,608.5	96	47.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : mhLF_mhLZ

Number of peaks found: 23 Corr. Area 1: 4,791.4
 Noise: 0.2

Peak table for sample 7 : mhLF_mhLZ

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	315	4,060.41	19,531.3	
3	354	102.75	439.8	
4	367	177.26	730.9	
5	391	21.52	83.4	
6	421	400.73	1,442.8	
7	479	663.99	2,098.5	
8	517	514.98	1,509.6	
9	534	322.68	916.3	
10	569	277.32	738.3	
11	597	253.40	643.2	
12	627	778.96	1,883.8	
13	1,458	29.43	30.6	
14	1,536	26.70	26.3	
15	1,905	54.36	43.2	
16	3,616	61.85	25.9	
17	5,047	44.27	13.3	
18	5,702	25.13	6.7	
19	6,560	63.14	14.6	
20	10,380	75.00	10.9	Upper Marker
21	15,104	0.00	0.0	
22	16,009	0.00	0.0	
23	16,562	0.00	0.0	
24	17,617	0.00	0.0	
25	27,569	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...

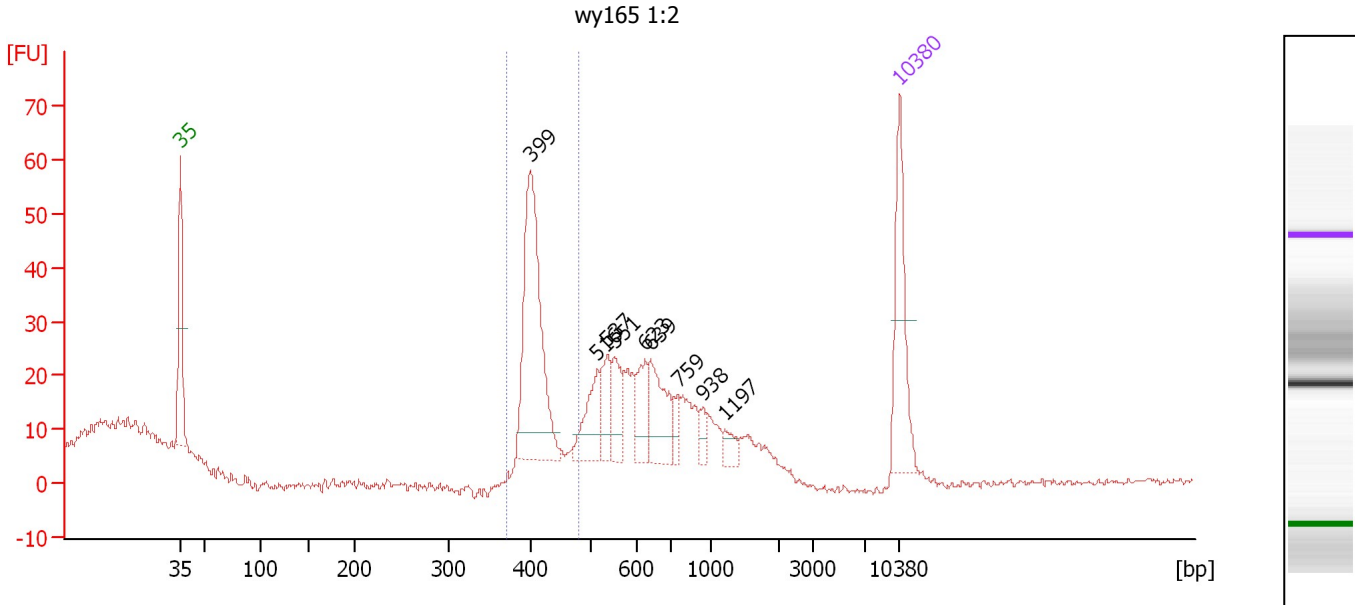
... Region table for sample 7 : mhLF_mhLZ

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
276	343	315	19,419.5	4,030.83	 4,791.4	47	2.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : wy165 1:2

Number of peaks found: 9 Corr. Area 1: 133.6
 Noise: 0.5

Peak table for sample 8 : wy165 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	399	212.17	805.7	
3	516	49.74	146.1	
4	537	35.08	98.9	
5	551	37.16	102.2	
6	623	37.10	90.2	
7	639	59.40	140.7	
8	759	14.80	29.5	
9	938	12.41	20.0	
10	1,197	11.63	14.7	
11	10,380	75.00	10.9	Upper Marker

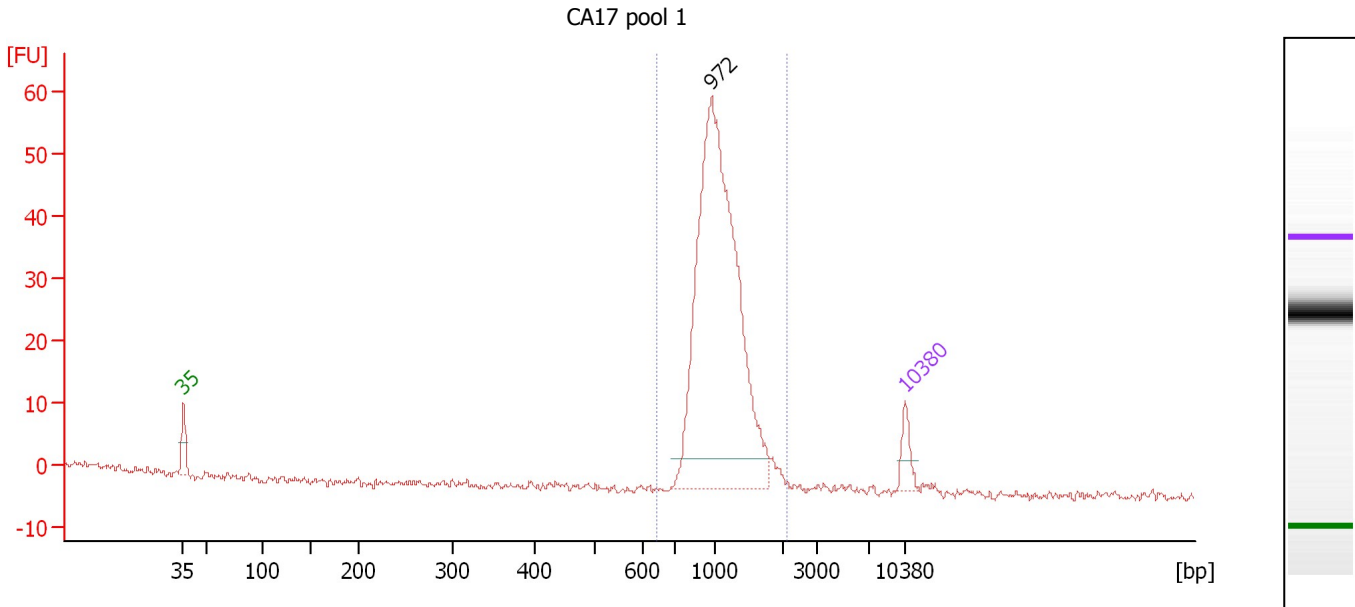
Region table for sample 8 : wy165 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
371	479	407	821.1	220.40	133.6	29	4.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CA17 pool 1

Number of peaks found: 1 Corr. Area 1: 286.8
 Noise: 0.7

Peak table for sample 9 : CA17 pool 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	972	2,272.99	3,543.2	
3	10,380	75.00	10.9	Upper Marker

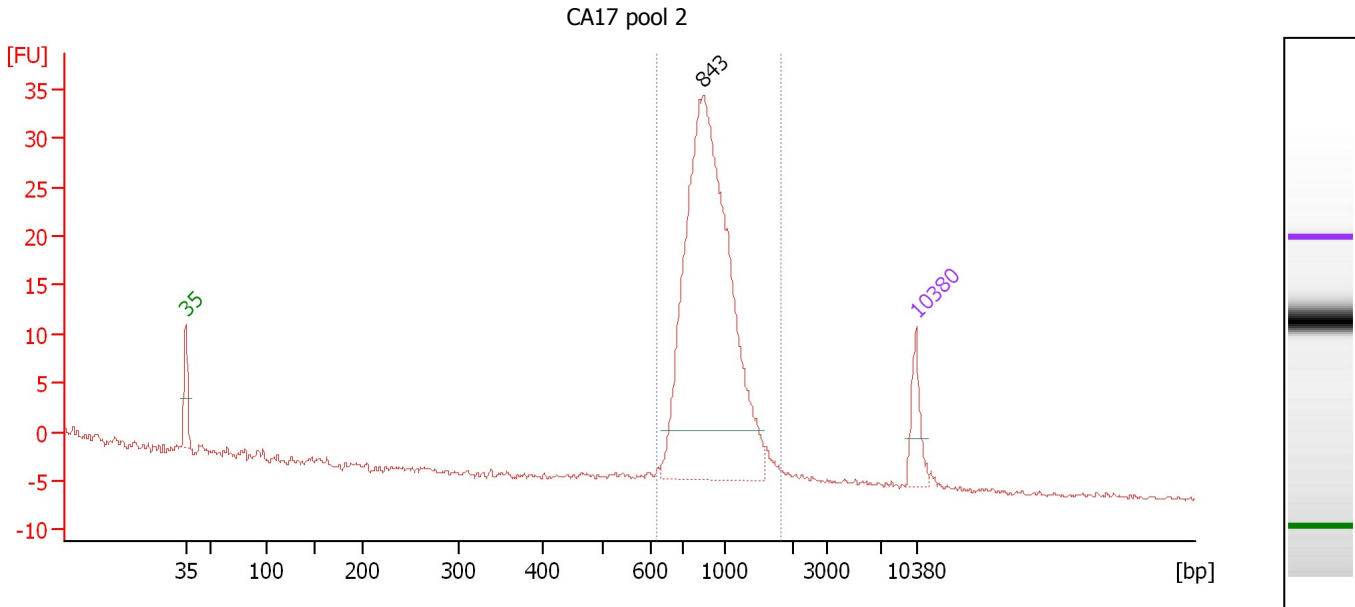
Region table for sample 9 : CA17 pool 1

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
649	2,105	1,110	3,112.8	2,198.70	286.8	98	22.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
 Modified: 6/10/2014 2:11:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CA17 pool 2

Number of peaks found: 1 Corr. Area 1: 197.5
 Noise: 0.2

Peak table for sample 10 : CA17 pool 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	843	1,465.64	2,634.2	
3	10,380	75.00	10.9	Upper Marker

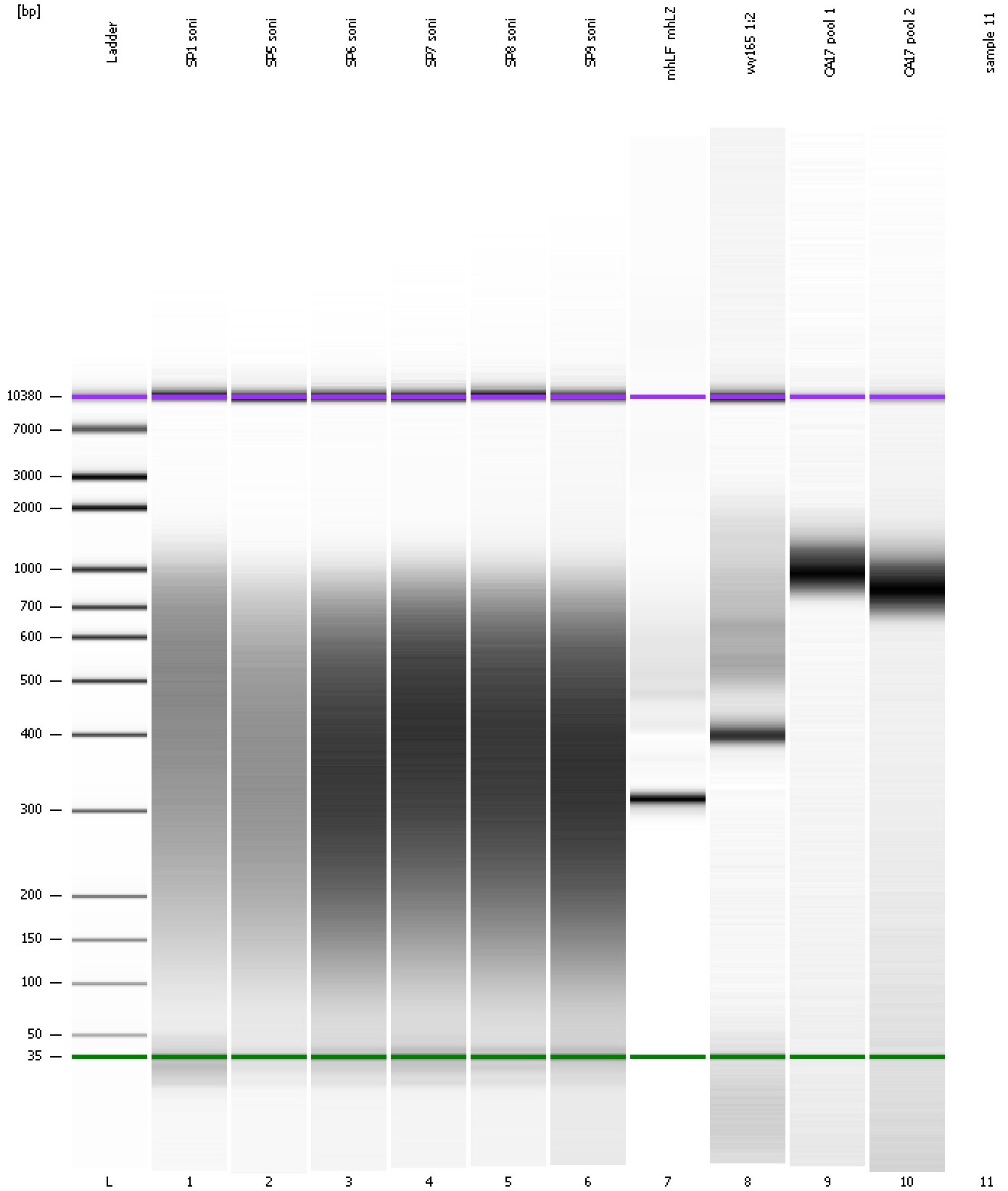
Region table for sample 10 : CA17 pool 2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
621	1,829	925	2,351.9	1,377.80	197.5	99	22.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
Modified: 6/10/2014 2:11:13 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-10\2014-06-10_003.xad

Created: 6/10/2014 1:29:46 PM
Modified: 6/10/2014 2:11:13 PM

Invalid Samples

Sample 11 has not been run, no results available.