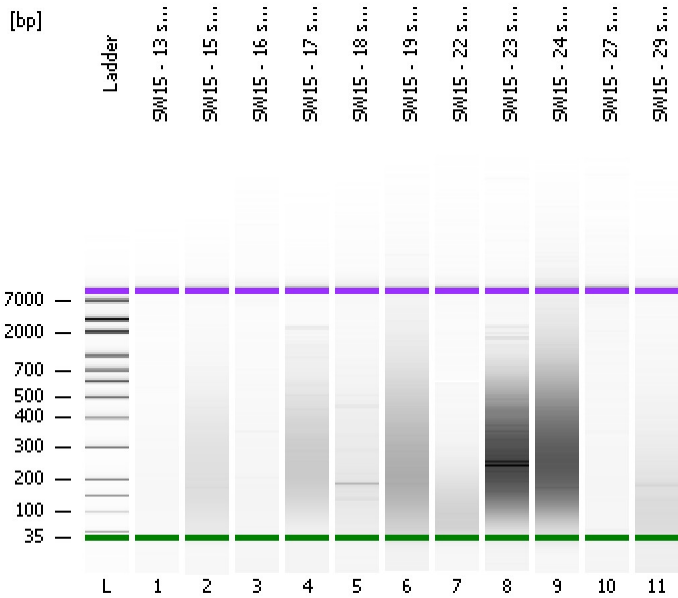


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
Modified: 7/21/2015 3:13:02 PM

Electrophoresis File Run Summary



Instrument Information:

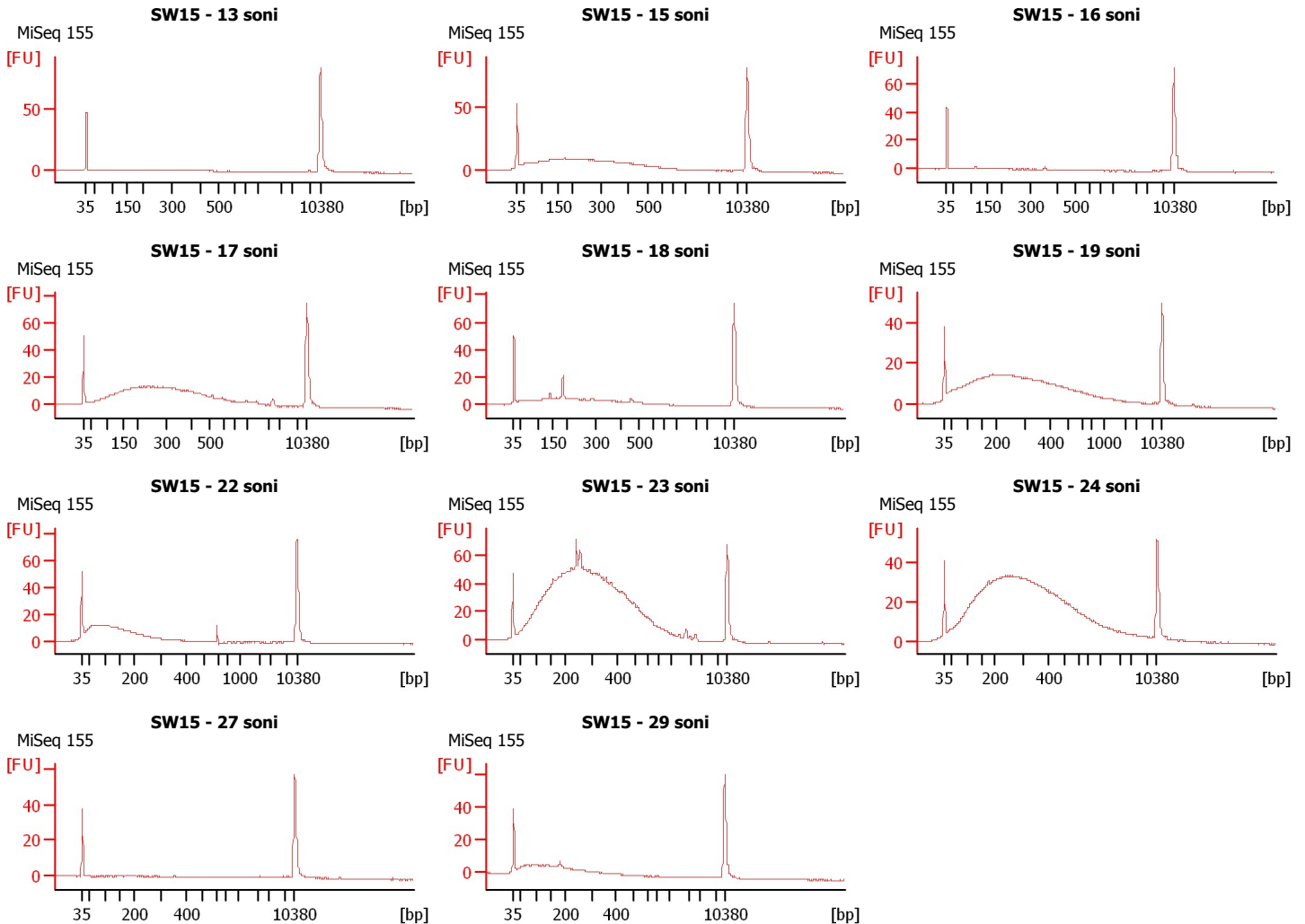
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SW15 - 13 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 15 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 16 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 17 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 18 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 19 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 22 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 23 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 24 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 27 soni	MiSeq 155	<input type="checkbox"/>	✓			
SW15 - 29 soni	MiSeq 155	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
Modified: 7/21/2015 3:13:02 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

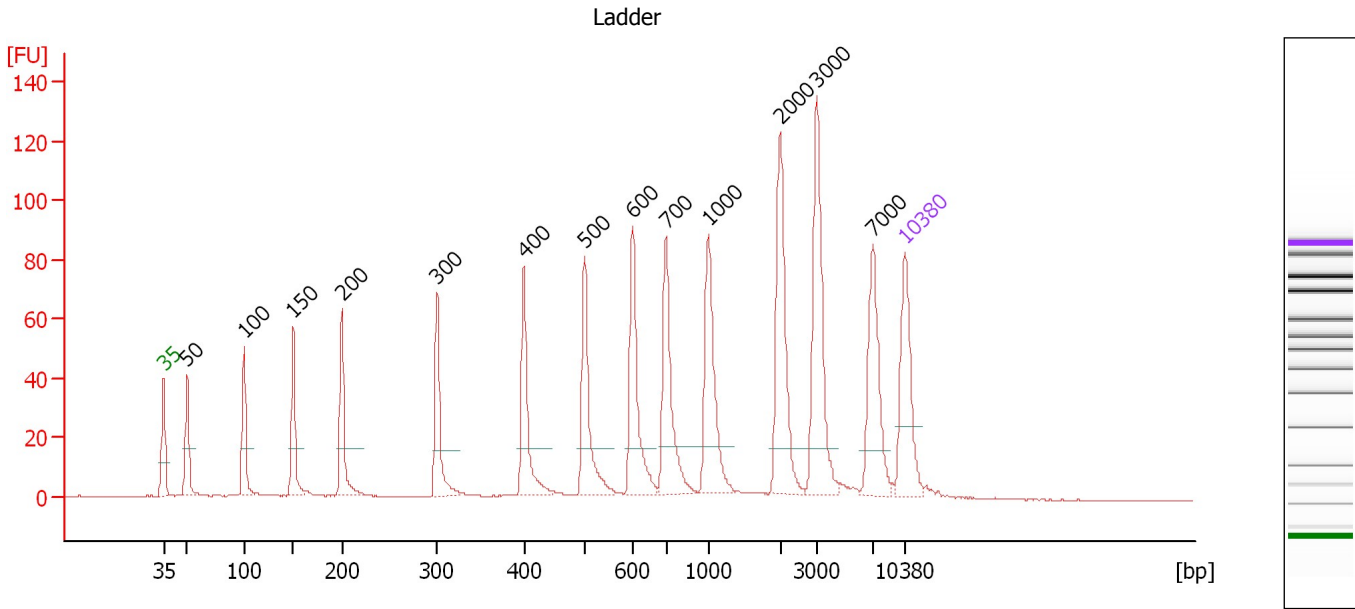
Ladder

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:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

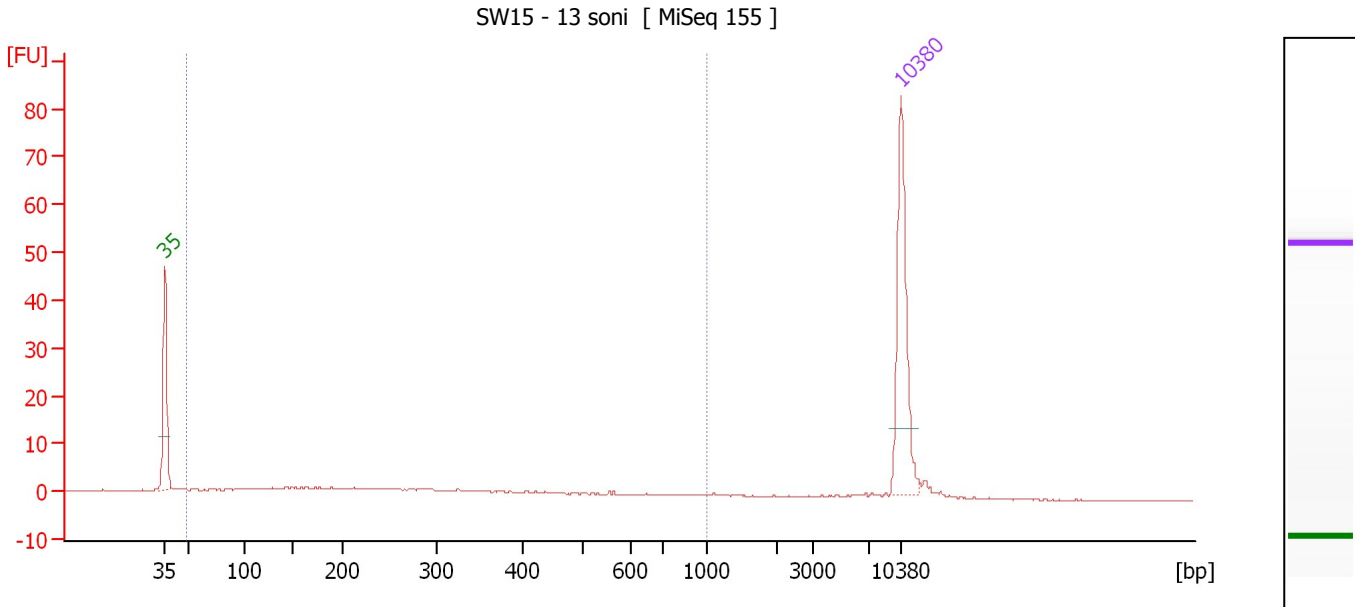
Peak table for Ladder

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	45.22
3	100	150.00	2,272.7	Ladder Peak	50.60
4	150	150.00	1,515.2	Ladder Peak	55.24
5	200	150.00	1,136.4	Ladder Peak	59.82
6	300	150.00	757.6	Ladder Peak	68.83
7	400	150.00	568.2	Ladder Peak	77.04
8	500	150.00	454.5	Ladder Peak	82.78
9	600	150.00	378.8	Ladder Peak	87.32
10	700	150.00	324.7	Ladder Peak	90.44
11	1,000	150.00	227.3	Ladder Peak	94.47
12	2,000	150.00	113.6	Ladder Peak	101.22
13	3,000	150.00	75.8	Ladder Peak	104.69
14	7,000	150.00	32.5	Ladder Peak	109.98
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : SW15 - 13 soni

Number of peaks found: 0 Corr. Area 1: 59.1
 Noise: 0.1

Peak table for sample 1 : SW15 - 13 soni

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

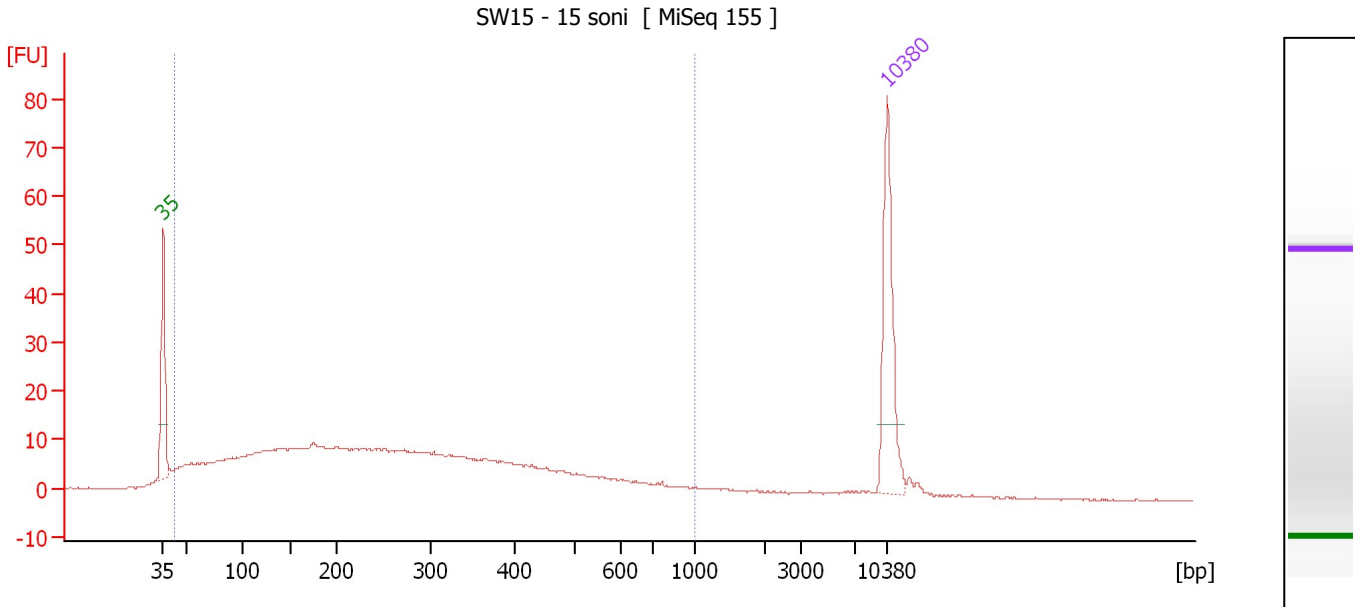
Region table for sample 1 : SW15 - 13 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
50	299	1,000	59.1	922.1	74	63.1	103.33

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SW15 - 15 soni

Number of peaks found: 0 Corr. Area 1: 488.4
 Noise: 0.1

Peak table for sample 2 : SW15 - 15 soni

Pea k	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

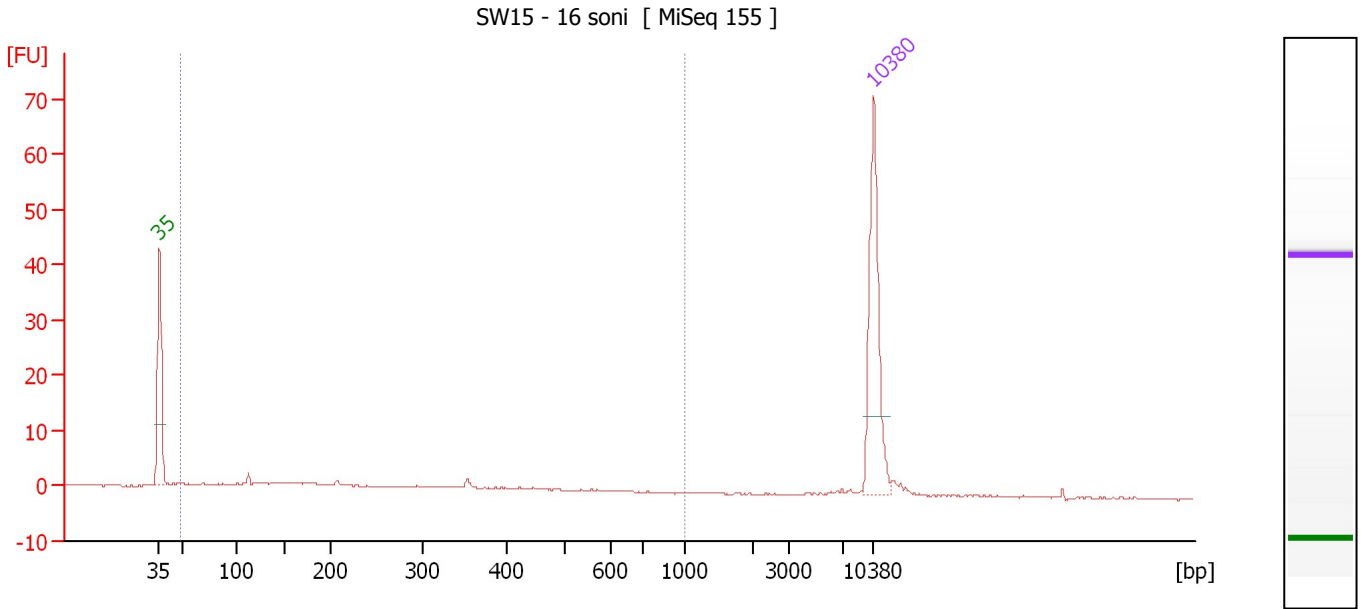
Region table for sample 2 : SW15 - 15 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
43	280	1,000	488.4	8,330.8	93	60.0	851.71

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SW15 - 16 soni

Number of peaks found: 0 Corr. Area 1: 39.6
 Noise: 0.1

Peak table for sample 3 : SW15 - 16 soni

Pea k	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

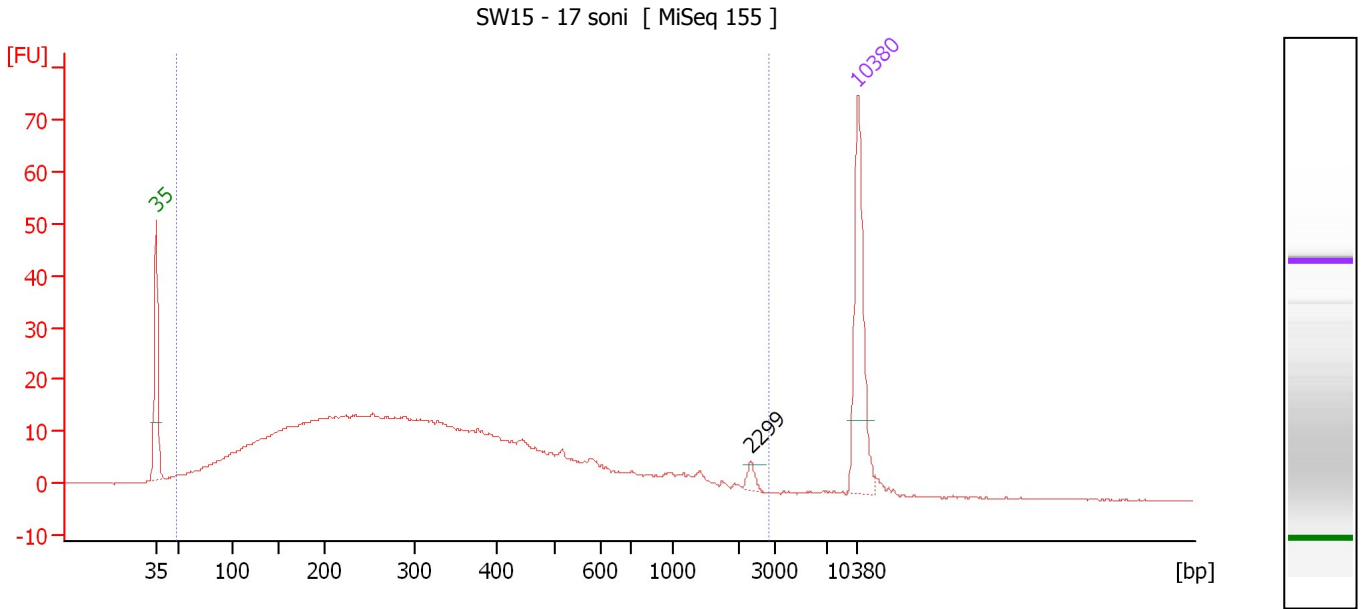
Region table for sample 3 : SW15 - 16 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
49	258	1,000	39.6	769.4	78	56.7	78.98

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SW15 - 17 soni

Number of peaks found: 1 Corr. Area 1: 681.8
 Noise: 0.2

Peak table for sample 4 : SW15 - 17 soni

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	2,299	5.66	3.7		102.26
3	10,380	75.00	10.9	Upper Marker	113.00

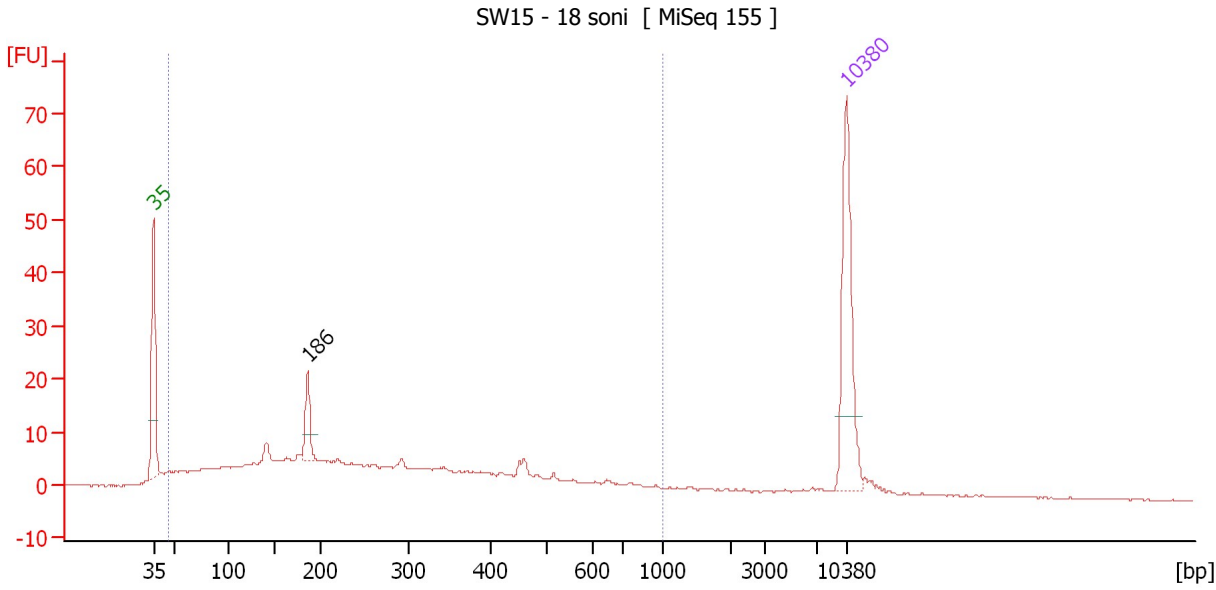
Region table for sample 4 : SW15 - 17 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
48	387	2,827	681.8	8,555.8	98	93.6	1,166.77

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SW15 - 18 soni

Number of peaks found: 1 Corr. Area 1: 288.0
 Noise: 0.1

Peak table for sample 5 : SW15 - 18 soni

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	186	30.06	244.5		58.56
3	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 5 : SW15 - 18 soni

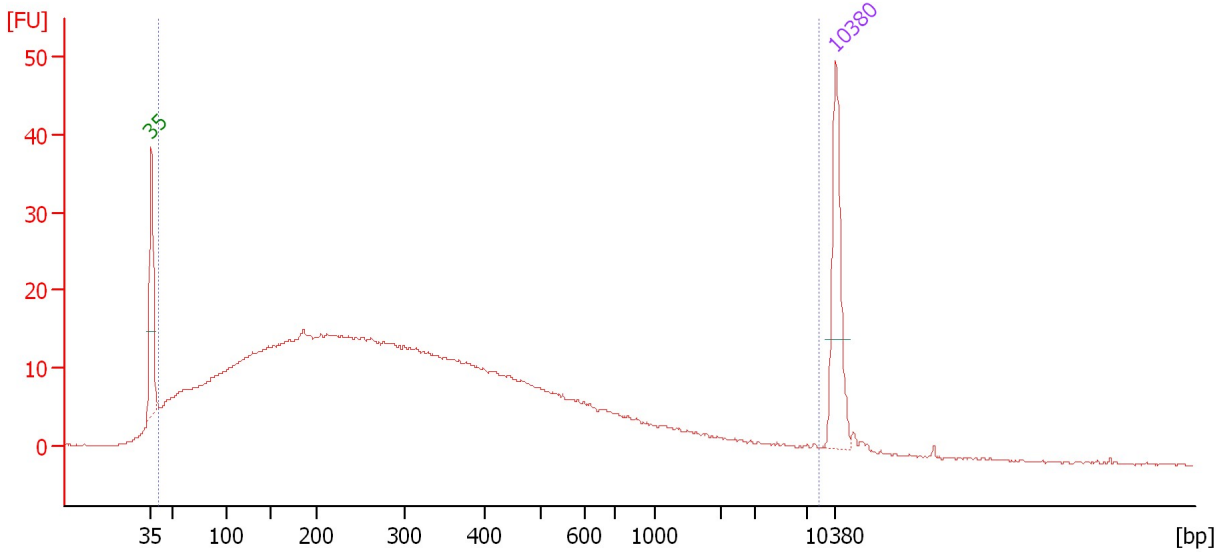
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
45	284	1,000	288.0	4,909.2	92	61.0	522.17

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...

SW15 - 19 soni [MiSeq 155]



Overall Results for sample 6 : SW15 - 19 soni

Number of peaks found: 0 Corr. Area 1: 843.6
Noise: 0.2

Peak table for sample 6 : SW15 - 19 soni

Pea k	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

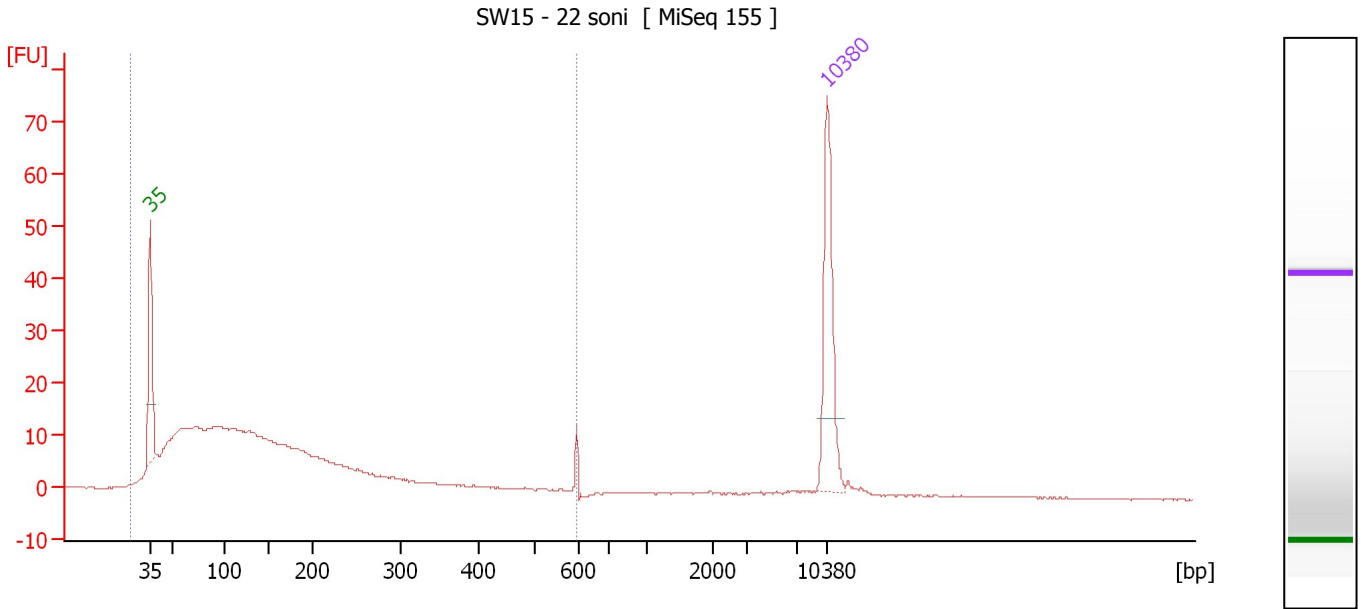
Region table for sample 6 : SW15 - 19 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
40	473	8,331	843.6	21,326.9	98	100.0	2,351.62

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SW15 - 22 soni

Number of peaks found: 0 Corr. Area 1: 403.2
 Noise: 0.2

Peak table for sample 7 : SW15 - 22 soni

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

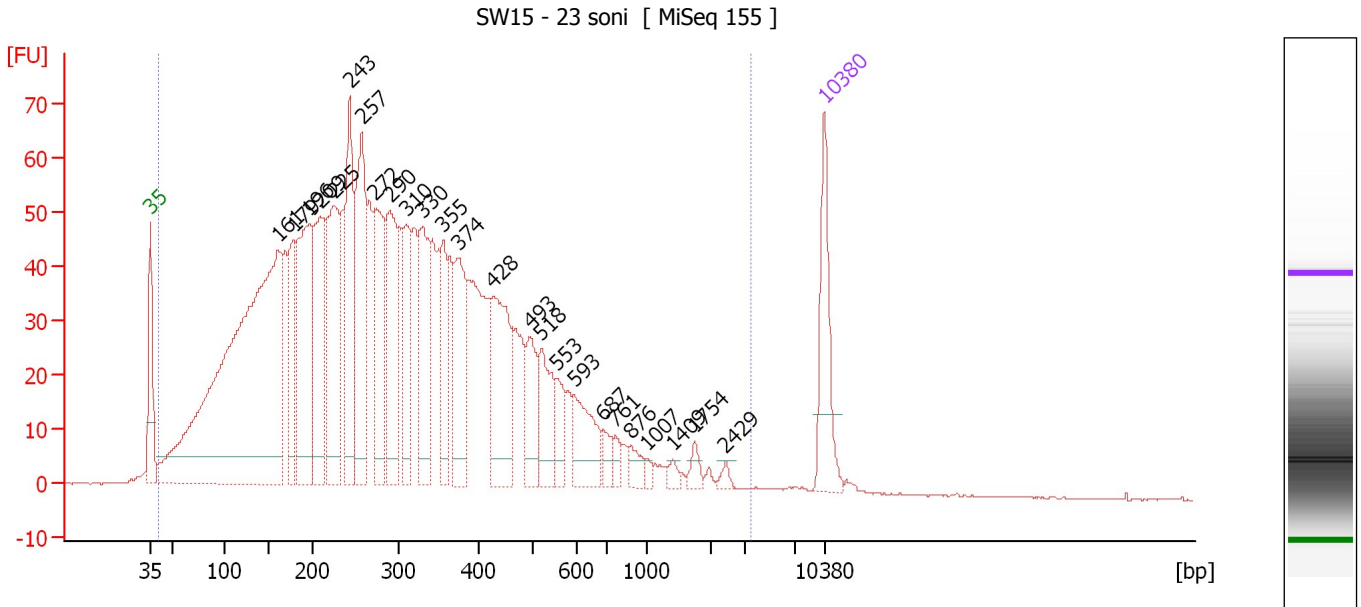
Region table for sample 7 : SW15 - 22 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
21	148	596	403.2	13,156.8	95	73.2	838.19

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SW15 - 23 soni

Number of peaks found: 25 Corr. Area 1: 2,451.0
 Noise: 0.1

Peak table for sample 8 : SW15 - 23 soni

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	161	1,067.04	10,055.6		56.23
3	179	112.66	954.2		57.89
4	196	268.88	2,080.7		59.43
5	209	191.70	1,388.2		60.65
6	225	217.10	1,464.7		62.04
7	243	178.16	1,110.9		63.70
8	257	221.35	1,304.4		64.97
9	272	161.72	901.4		66.30
10	290	173.51	907.6		67.90
11	310	100.09	489.9		69.62
12	330	142.57	655.1		71.28
13	355	82.63	352.3		73.38
14	374	122.23	494.8		74.93
15	428	154.15	546.0		78.64
16	493	63.98	196.5		82.40
17	518	71.50	209.0		83.62
18	553	35.23	96.6		85.17
19	593	69.06	176.5		86.99
20	687	16.61	36.6		90.04
21	761	11.90	23.7		91.25
22	876	16.41	28.4		92.80
23	1,007	5.76	8.7		94.52
24	1,409	7.06	7.6		97.23
25	1,754	10.93	9.4		99.55

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...**... Peak table for sample 8 : SW15 - 23 soni**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	2,429	5.60	3.5		102.71
27	10,380	75.00	10.9	Upper Marker	113.00

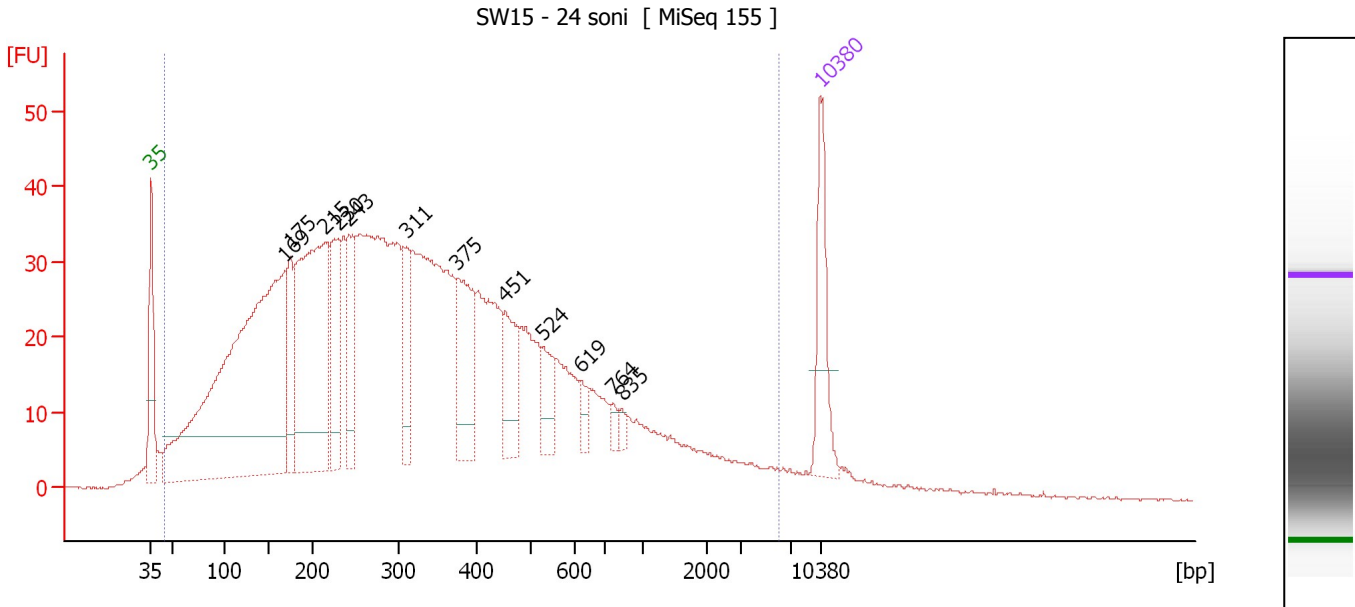
Region table for sample 8 : SW15 - 23 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
41	340	3,511	2,451.0	35,419.8	99	81.7	4,658.66

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : SW15 - 24 soni

Number of peaks found: 12 Corr. Area 1: 1,752.6
 Noise: 0.2

Peak table for sample 9 : SW15 - 24 soni

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	169	964.51	8,666.6		56.94
3	175	95.55	825.7		57.56
4	215	437.73	3,083.0		61.18
5	230	124.26	818.7		62.52
6	243	114.67	715.1		63.69
7	311	75.04	365.9		69.72
8	375	131.18	529.6		75.02
9	451	79.90	268.3		79.98
10	524	42.68	123.3		83.88
11	619	19.82	48.5		87.90
12	764	10.59	21.0		91.30
13	835	8.56	15.5		92.25
14	10,380	75.00	10.9	Upper Marker	113.00

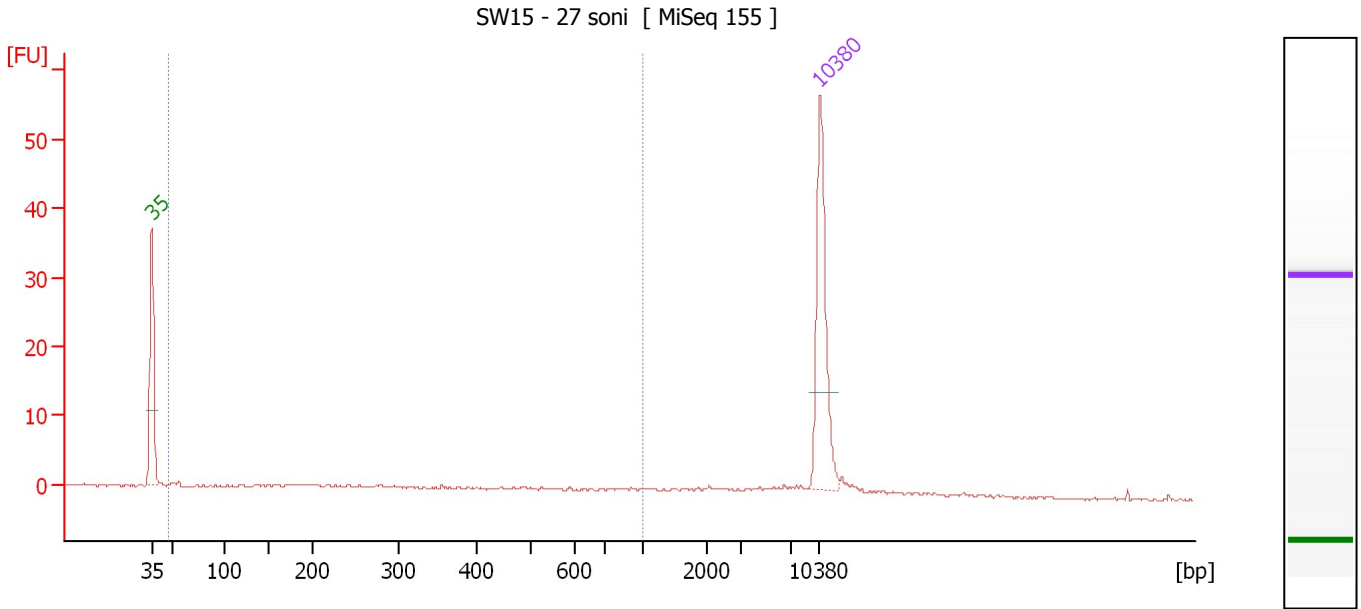
Region table for sample 9 : SW15 - 24 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
45	447	5,933	1,752.6	32,666.9	97	100.0	4,362.86

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SW15 - 27 soni

Number of peaks found: 0 Corr. Area 1: 23.6
 Noise: 0.2

Peak table for sample 10 : SW15 - 27 soni

Pea k	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

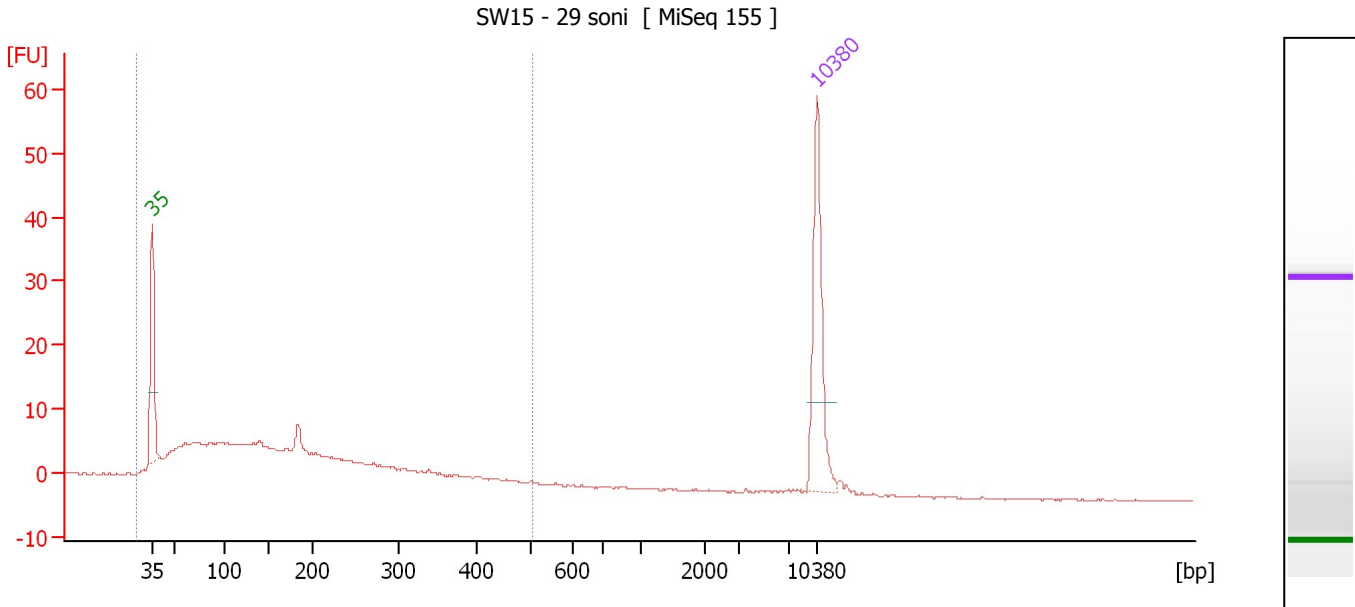
Region table for sample 10 : SW15 - 27 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
47	403	1,000	23.6	378.6	48	57.4	51.29

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
 Modified: 7/21/2015 3:13:02 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : SW15 - 29 soni

Number of peaks found: 0 Corr. Area 1: 203.4
 Noise: 0.1

Peak table for sample 11 : SW15 - 29 soni

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 11 : SW15 - 29 soni

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
24	155	507	203.4	7,095.0	99	66.4	502.74

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-21\2015-07-21_004.xad

Created: 7/21/2015 2:27:22 PM
Modified: 7/21/2015 3:13:02 PM

Gel Image

