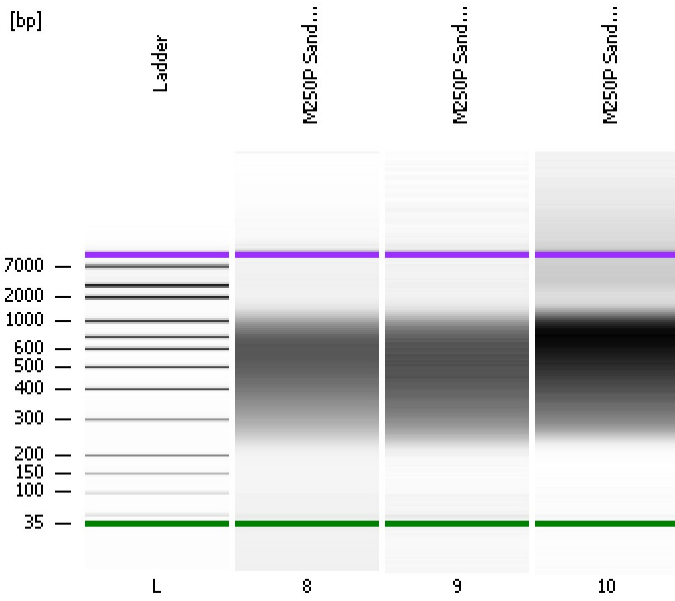


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
Modified: 12/10/2015 3:31:10 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

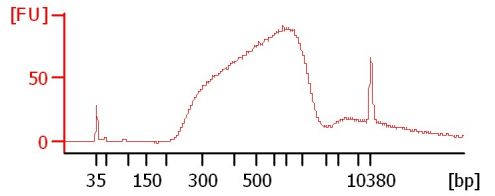
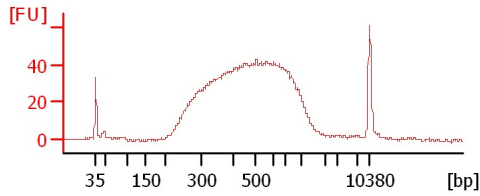
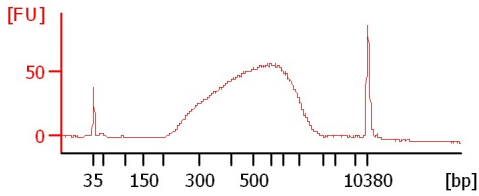
Chip Information:

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

M250P Sandea_3

M250P Sandea_2

M250P Sandea_1



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
 Modified: 12/10/2015 3:31:10 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
M250P Sandea_3		<input type="checkbox"/>	✓			
M250P Sandea_2		<input type="checkbox"/>	✓			
M250P Sandea_1		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
Modified: 12/10/2015 3:31:10 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

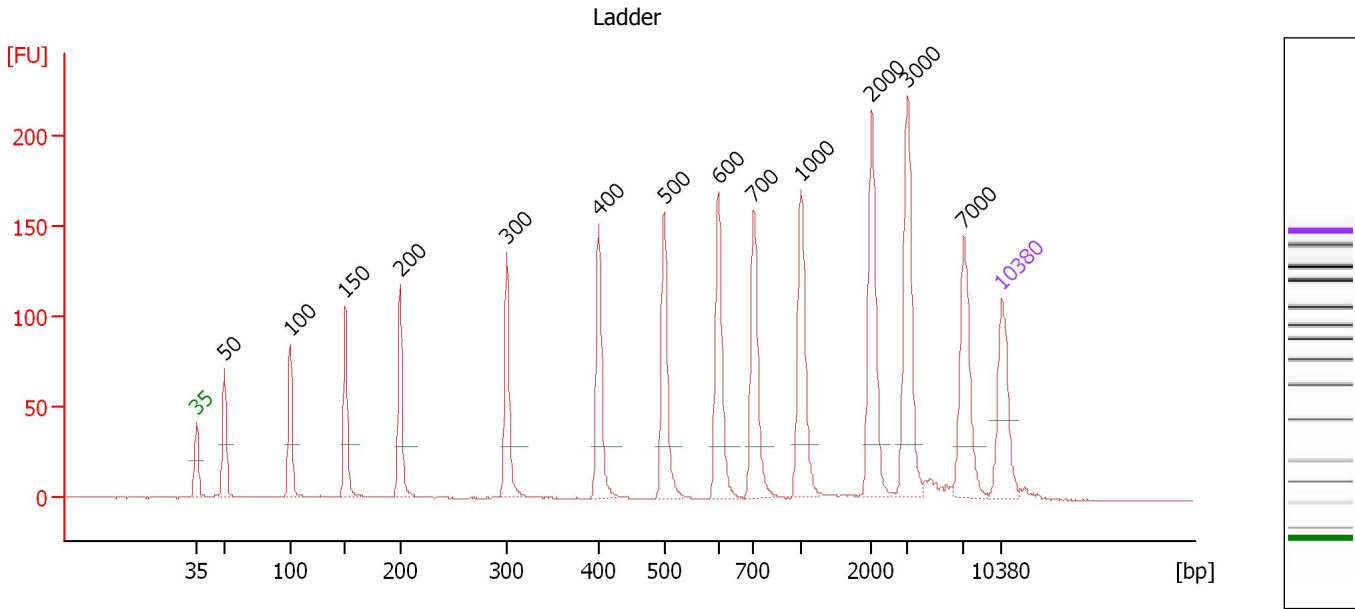
Ladder

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:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
 Modified: 12/10/2015 3:31:10 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

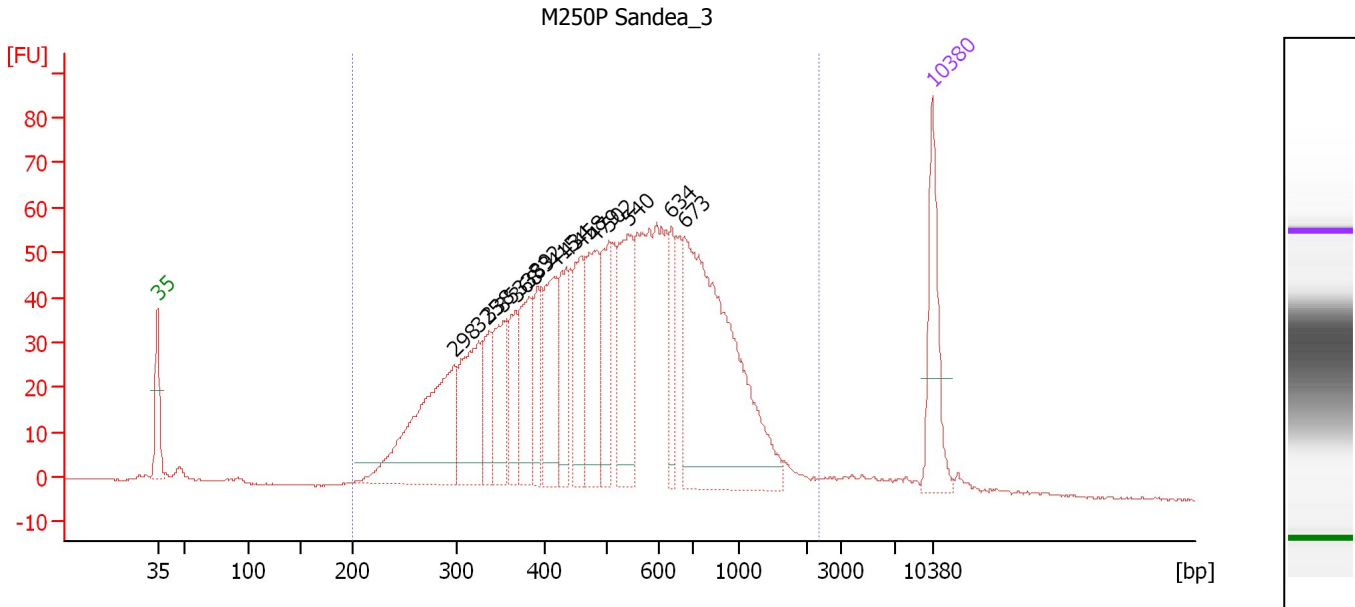
Peak table for Ladder

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	45.41
3	100	150.00	2,272.7	Ladder Peak	51.16
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	69.98
7	400	150.00	568.2	Ladder Peak	77.95
8	500	150.00	454.5	Ladder Peak	83.66
9	600	150.00	378.8	Ladder Peak	88.38
10	700	150.00	324.7	Ladder Peak	91.44
11	1,000	150.00	227.3	Ladder Peak	95.52
12	2,000	150.00	113.6	Ladder Peak	101.69
13	3,000	150.00	75.8	Ladder Peak	104.84
14	7,000	150.00	32.5	Ladder Peak	109.71
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
 Modified: 12/10/2015 3:31:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : M250P Sandea_3

Number of peaks found: 15 Corr. Area 1: 1,639.3
 Noise: 0.2

Peak table for sample 8 : M250P Sandea_3

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	298	250.16	1,271.6		69.80
3	325	131.71	613.3		72.00
4	338	57.37	257.5		72.98
5	353	83.48	358.3		74.21
6	368	64.77	266.8		75.39
7	383	97.07	383.8		76.62
8	392	58.52	226.1		77.33
9	415	107.51	392.3		78.82
10	434	73.83	257.7		79.90
11	458	84.94	280.8		81.28
12	479	117.05	370.2		82.46
13	502	87.54	264.3		83.74
14	540	124.05	348.3		85.53
15	634	52.63	125.8		89.43
16	673	406.33	915.3		90.61
17	10,380	75.00	10.9	Upper Marker	113.00

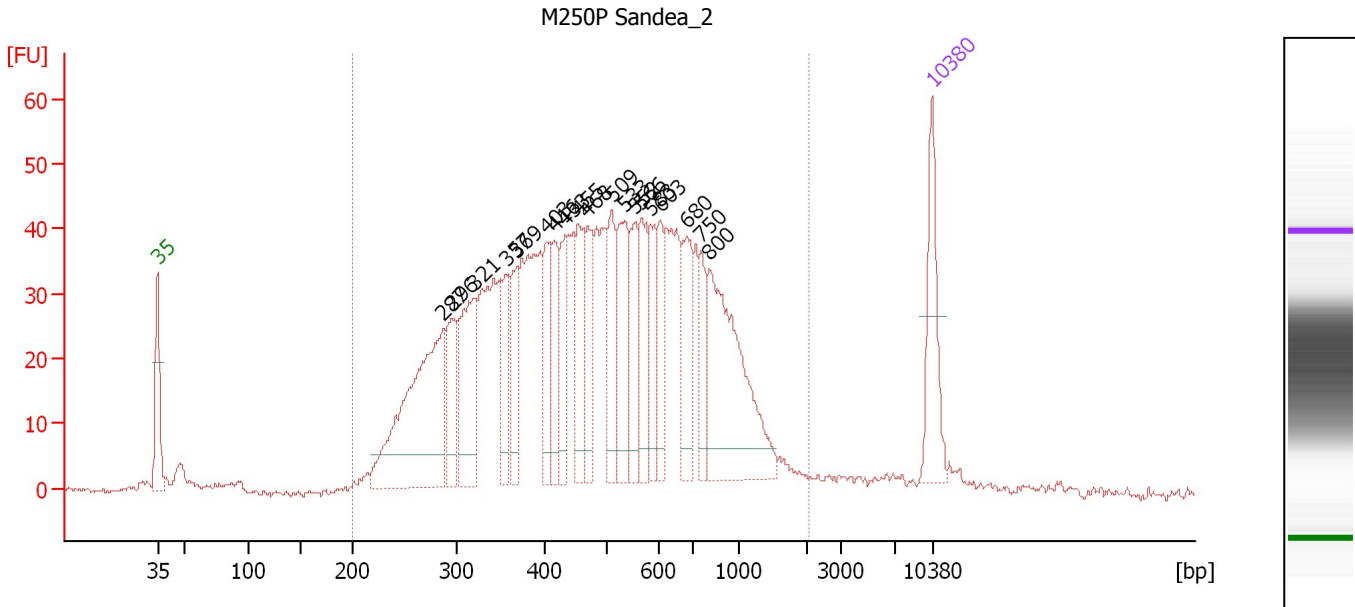
Region table for sample 8 : M250P Sandea_3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	2,342	563	1,639.3	7,570.5	2,236.43	97	48.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
 Modified: 12/10/2015 3:31:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : M250P Sandea_2

Number of peaks found: 19 Corr. Area 1: 1,326.8
 Noise: 0.4

Peak table for sample 9 : M250P Sandea_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	287	319.34	1,685.6		68.78
3	296	78.50	401.9		69.61
4	321	142.90	675.4		71.62
5	357	67.23	284.9		74.56
6	369	67.53	277.7		75.44
7	403	70.00	263.1		78.13
8	416	64.89	236.5		78.85
9	433	69.78	244.2		79.83
10	455	82.09	273.5		81.07
11	468	80.71	261.1		81.85
12	509	80.38	239.4		84.07
13	533	109.75	312.1		85.21
14	552	69.33	190.1		86.14
15	566	72.97	195.5		86.76
16	583	61.44	159.7		87.58
17	603	56.05	140.9		88.46
18	680	85.14	189.6		90.84
19	750	50.69	102.4		92.13
20	800	235.38	445.9		92.80
21	10,380	75.00	10.9	Upper Marker	113.00

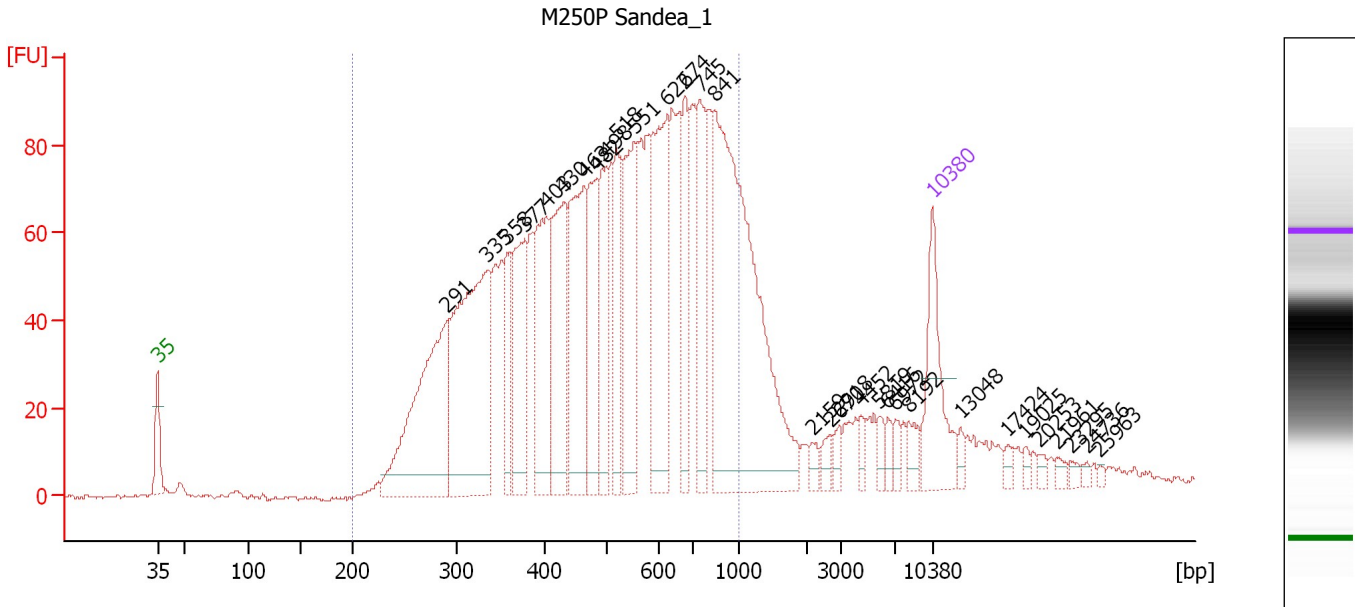
Region table for sample 9 : M250P Sandea_2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	2,040	534	1,326.8	10,063.4	2,814.68	96	47.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
 Modified: 12/10/2015 3:31:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : M250P Sandea 1

Number of peaks found: 31 Corr. Area 1: 2,266.2
 Noise: 0.4

Peak table for sample 10 : M250P Sandea 1

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	291	282.05	1,468.9		69.14
3	335	327.45	1,480.6		72.78
4	358	65.41	276.9		74.60
5	377	125.41	503.4		76.16
6	403	140.06	526.4		78.13
7	430	159.68	562.1		79.69
8	463	174.98	572.3		81.56
9	482	106.67	335.0		82.65
10	498	91.96	279.9		83.53
11	518	87.66	256.3		84.52
12	551	152.43	418.9		86.08
13	622	180.52	440.1		89.04
14	674	84.10	189.0		90.65
15	745	111.36	226.5		92.06
16	841	456.00	821.9		93.36
17	2,159	8.58	6.0		102.19
18	2,670	11.17	6.3		103.80
19	2,918	10.28	5.3		104.58
20	4,452	10.05	3.4		106.61
21	5,819	9.89	2.6		108.27
22	6,416	9.55	2.3		109.00
23	6,972	9.32	2.0		109.67
24	8,192	14.48	2.7		110.87
25	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad


Created: 12/10/2015 2:39:12 PM
 Modified: 12/10/2015 3:31:10 PM

Electropherogram Summary Continued ...

... Peak table for sample 10 : M250P Sandea_1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,048	0.00	0.0		115.60
27	17,424	0.00	0.0		119.86
28	19,025	0.00	0.0		121.42
29	20,253	0.00	0.0		122.61
30	21,961	0.00	0.0		124.28
31	23,295	0.00	0.0		125.58
32	24,736	0.00	0.0		126.98
33	25,963	0.00	0.0		128.17

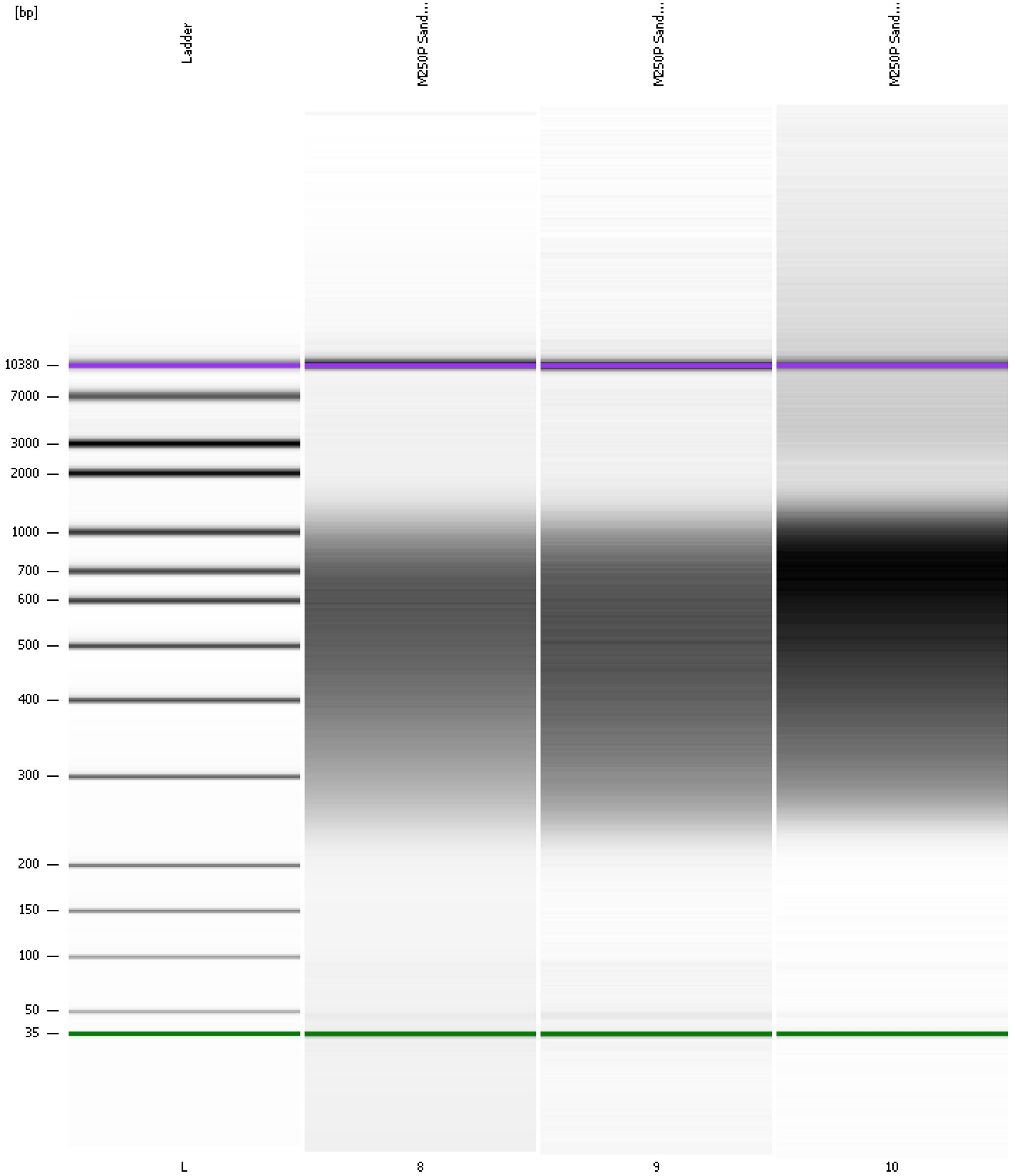
Region table for sample 10 : M250P Sandea_1

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	530	2,266.2	10,019.8	 2,943.64	84	35.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
Modified: 12/10/2015 3:31:10 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ings\Bioanalyzer\2015-12-10\2015-12-10_003_Sandea_1_2_3.xad

Created: 12/10/2015 2:39:12 PM
 Modified: 12/10/2015 3:31:10 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		12/10/2015 3:20:29 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-10\2015-12-10_003.xad)		Instrument	Run		12/10/2015 2:39:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/10/2015 2:39:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/10/2015 2:39:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/10/2015 2:39:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/10/2015 2:39:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/10/2015 2:39:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/10/2015 2:39:18 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1