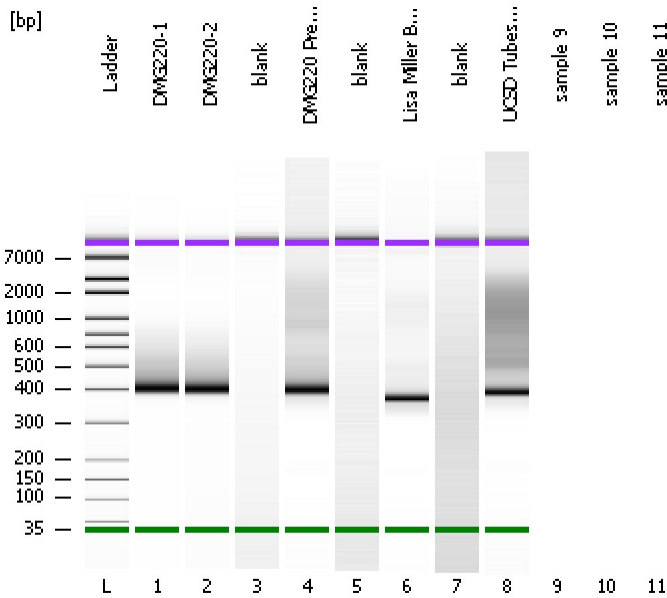


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
Modified: 2/19/2015 5:12:25 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

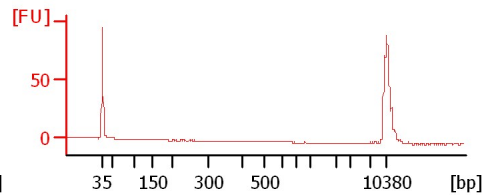
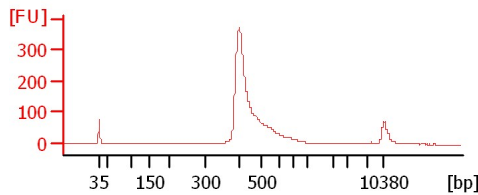
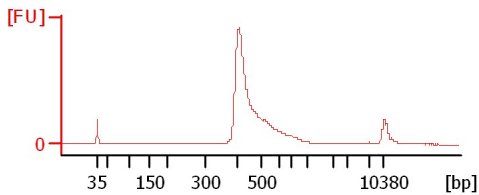
Chip Information:

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

DMG220-1

DMG220-2

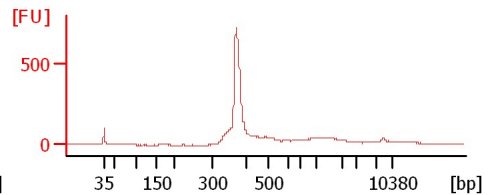
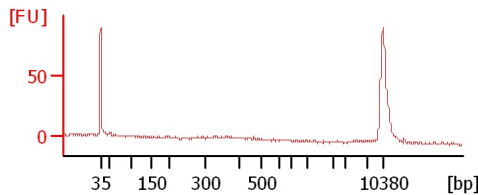
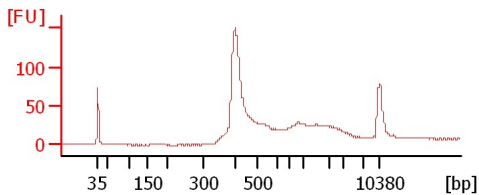
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DMG220 Pre Pippin

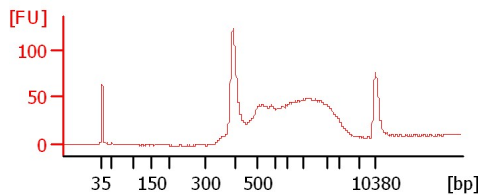
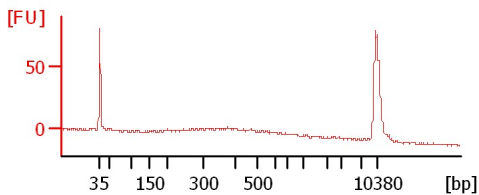
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Lisa Miller BAL Redo



blank

UCSD Tubes Prep



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
Modified: 2/19/2015 5:12:25 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
DMG220-1		<input type="checkbox"/>	✓			
DMG220-2		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
DMG220 Pre Pippin		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
Lisa Miller BAL Redo		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
UCSD Tubes Prep		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>				
sample 10		<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:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
Modified: 2/19/2015 5:12:25 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

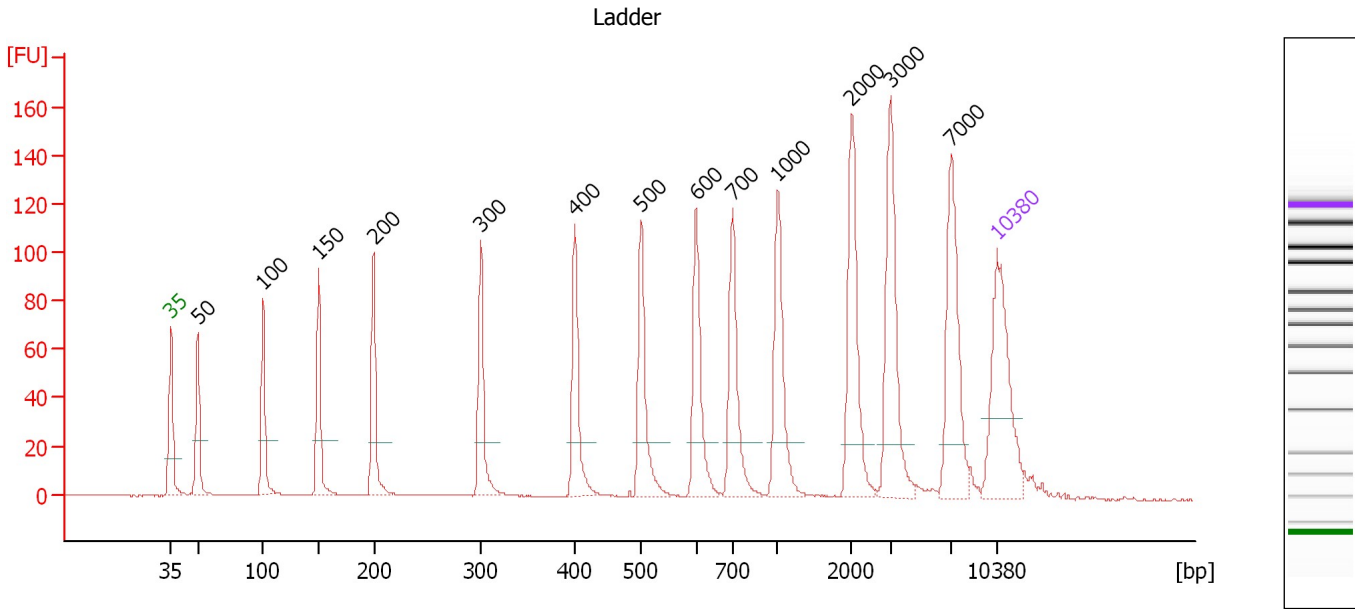
Ladder

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\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

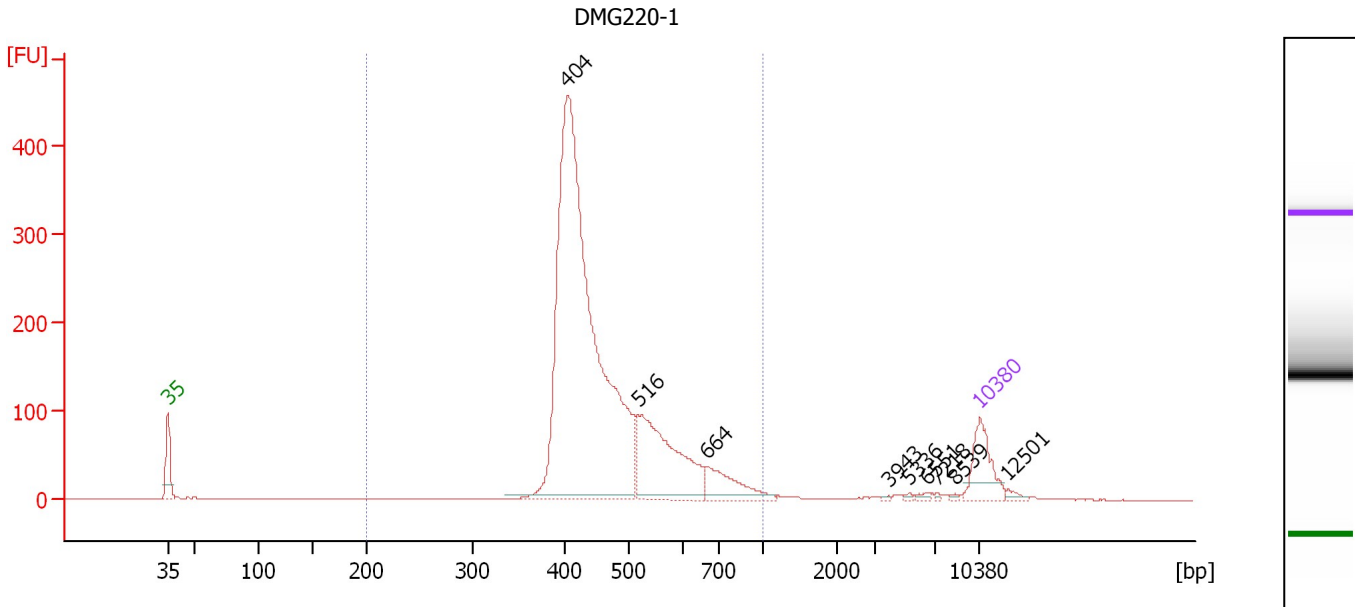
Peak table for Ladder

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	45.26
3	100	150.00	2,272.7	Ladder Peak	50.81
4	150	150.00	1,515.2	Ladder Peak	55.51
5	200	150.00	1,136.4	Ladder Peak	60.16
6	300	150.00	757.6	Ladder Peak	69.24
7	400	150.00	568.2	Ladder Peak	77.23
8	500	150.00	454.5	Ladder Peak	82.83
9	600	150.00	378.8	Ladder Peak	87.48
10	700	150.00	324.7	Ladder Peak	90.55
11	1,000	150.00	227.3	Ladder Peak	94.39
12	2,000	150.00	113.6	Ladder Peak	100.67
13	3,000	150.00	75.8	Ladder Peak	103.97
14	7,000	150.00	32.5	Ladder Peak	109.12
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : DMG220-1

Number of peaks found: 9 Corr. Area 1: 2,861.8
 Noise: 0.2

Peak table for sample 1 : DMG220-1

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	404	1,592.65	5,975.2		77.45
3	516	327.78	962.9		83.57
4	664	93.36	213.0		89.45
5	3,943	1.87	0.7		105.18
6	5,336	3.26	0.9		106.98
7	6,551	5.38	1.2		108.54
8	7,218	2.43	0.5		109.37
9	8,539	3.19	0.6		110.88
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,501	0.00	0.0		115.44

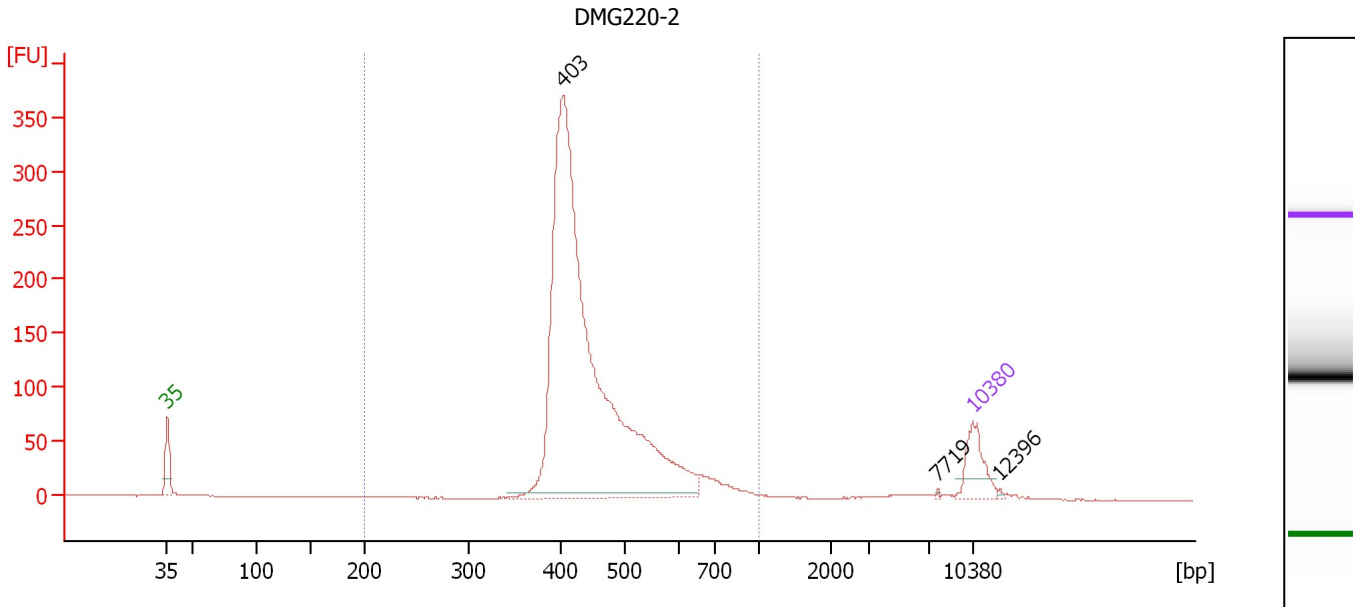
Region table for sample 1 : DMG220-1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	470	1,000	2,861.8	96	20.4	1,964.13	6,580.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : DMG220-2

Number of peaks found: 3 Corr. Area 1: 2,121.1
 Noise: 0.2

Peak table for sample 2 : DMG220-2

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	403	1,916.12	7,212.2		77.37
3	7,719	2.16	0.4		109.94
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,396	0.00	0.0		115.32

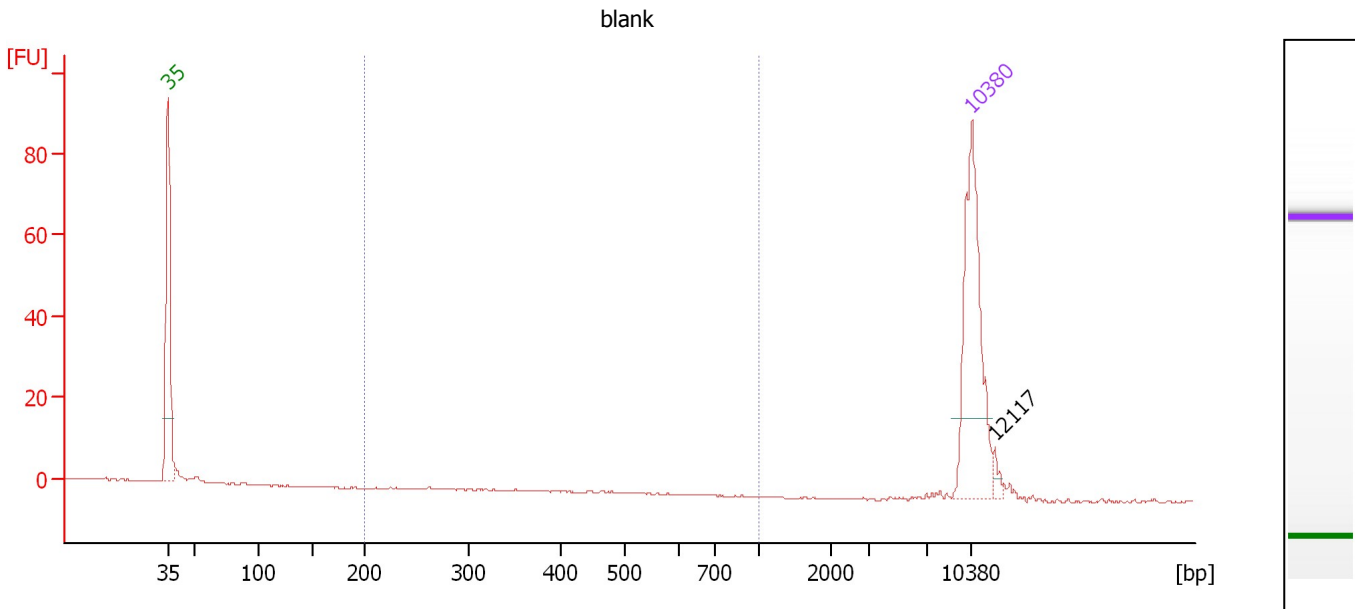
Region table for sample 2 : DMG220-2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	458	1,000	2,121.1	97	18.9	1,912.92	6,542.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : blank

Number of peaks found: 1 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 3 : blank

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
3	12,117	0.00	0.0		115.00

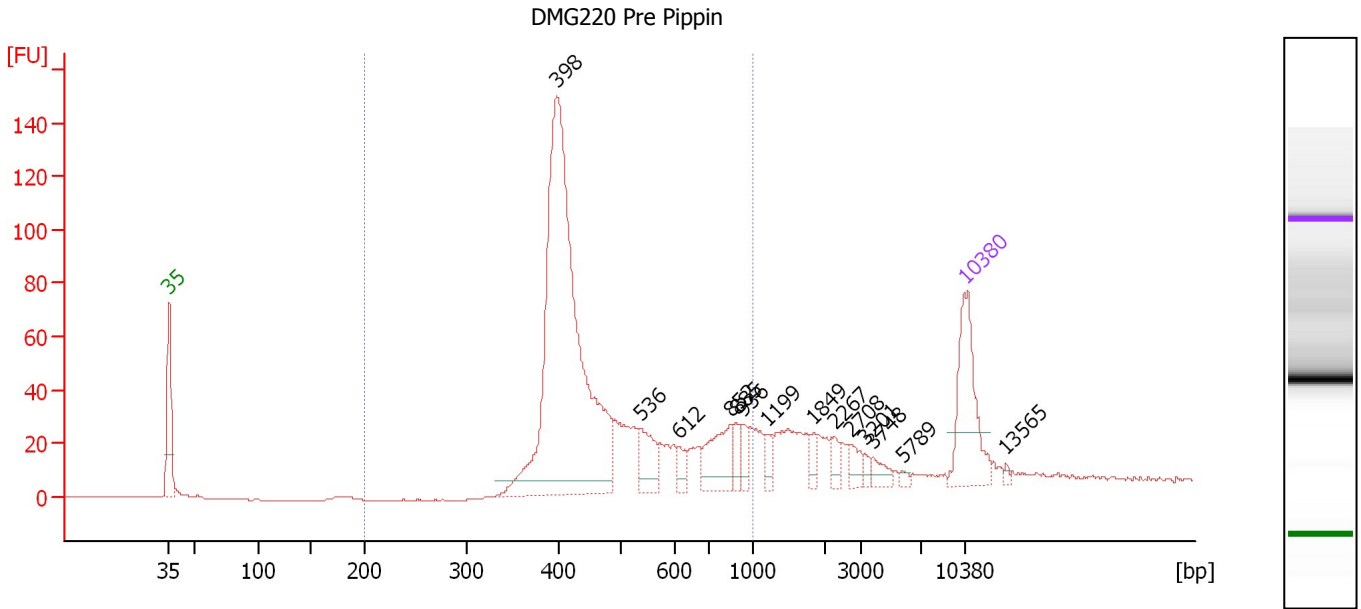
Region table for sample 3 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	0	1,000	0.0	0	0.0	0.00	0.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : DMG220 Pre Pippin

Number of peaks found: 14 Corr. Area 1: 904.9
 Noise: 0.1

Peak table for sample 4 : DMG220 Pre Pippin

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	398	612.42	2,328.8		77.11
3	536	40.58	114.6		84.52
4	612	13.73	34.0		87.85
5	852	51.24	91.1		92.50
6	885	14.82	25.4		92.92
7	936	12.96	21.0		93.58
8	1,199	11.04	14.0		95.64
9	1,849	9.04	7.4		99.72
10	2,267	11.48	7.7		101.55
11	2,708	12.38	6.9		103.01
12	3,201	5.00	2.4		104.23
13	3,748	11.87	4.8		104.93
14	5,789	3.62	0.9		107.56
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,565	0.00	0.0		116.66

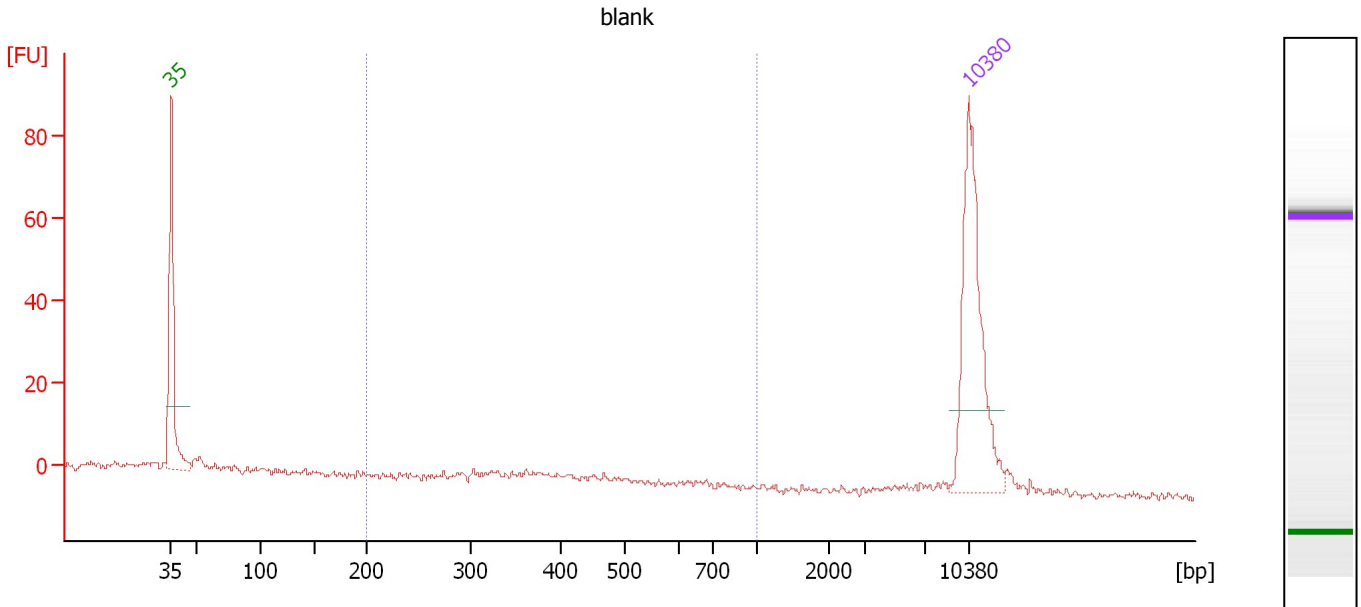
Region table for sample 4 : DMG220 Pre Pippin

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	499	1,000	904.9	79	30.1	815.43	2,693.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : blank

Number of peaks found: 0 Corr. Area 1: 36.7
 Noise: 0.9

Peak table for sample 5 : blank

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

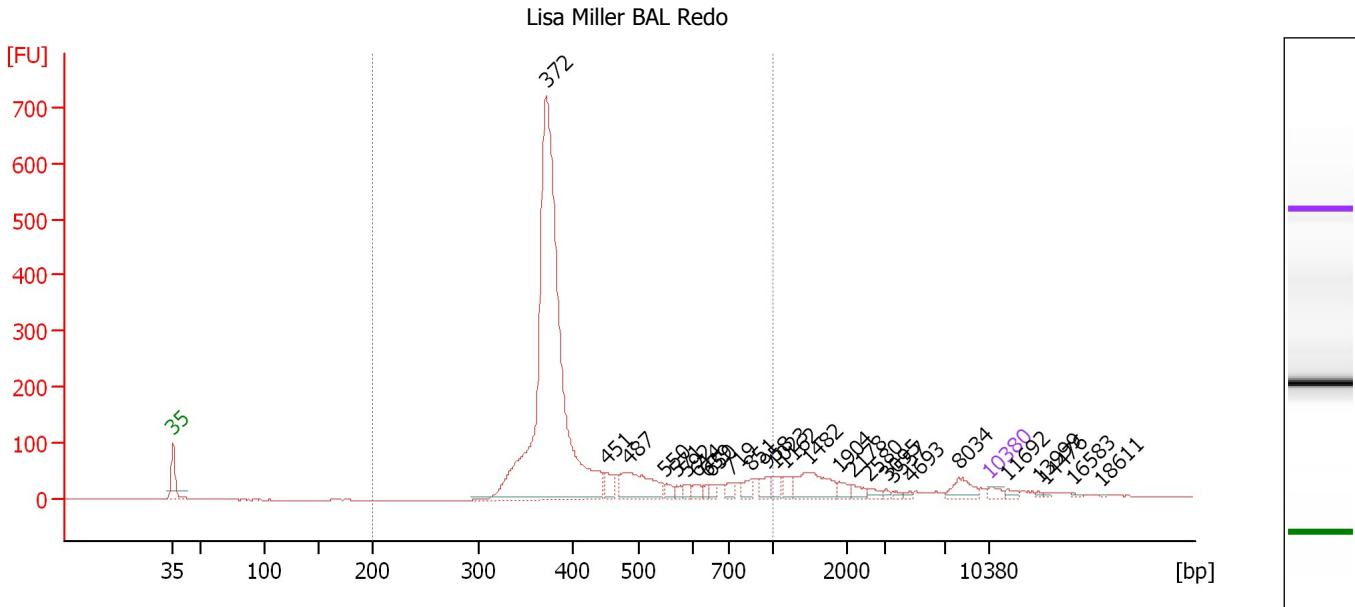
Region table for sample 5 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	392	1,000	36.7	33	29.1	26.29	112.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Lisa Miller BAL Redo

Number of peaks found: 27 Corr. Area 1: 2,755.5
 Noise: 0.7

Peak table for sample 6 : Lisa Miller BAL Redo

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	372	10,340.78	42,131.6		74.98
3	451	237.09	796.1		80.10
4	487	903.65	2,810.6		82.11
5	550	115.73	318.6		85.17
6	571	88.01	233.5		86.13
7	592	83.86	214.8		87.09
8	614	109.05	269.1		87.92
9	639	70.40	166.8		88.69
10	650	78.24	182.4		89.01
11	719	112.23	236.6		90.79
12	851	172.29	306.8		92.48
13	958	151.70	240.0		93.86
14	1,023	141.94	210.1		94.54
15	1,162	130.36	170.0		95.41
16	1,482	555.76	568.2		97.42
17	1,904	111.21	88.5		100.07
18	2,178	94.79	66.0		101.26
19	2,580	69.98	41.1		102.58
20	3,095	33.06	16.2		104.09
21	3,557	33.52	14.3		104.68
22	4,693	29.85	9.6		106.15
23	8,034	220.05	41.5		110.30
24	10,380	75.00	10.9	Upper Marker	113.00
25	11,692	0.00	0.0		114.51

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad


Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...

... Peak table for sample 6 : Lisa Miller BAL Redo

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,999	0.00	0.0		117.16
27	14,476	0.00	0.0		117.71
28	16,583	0.00	0.0		120.13
29	18,611	0.00	0.0		122.46

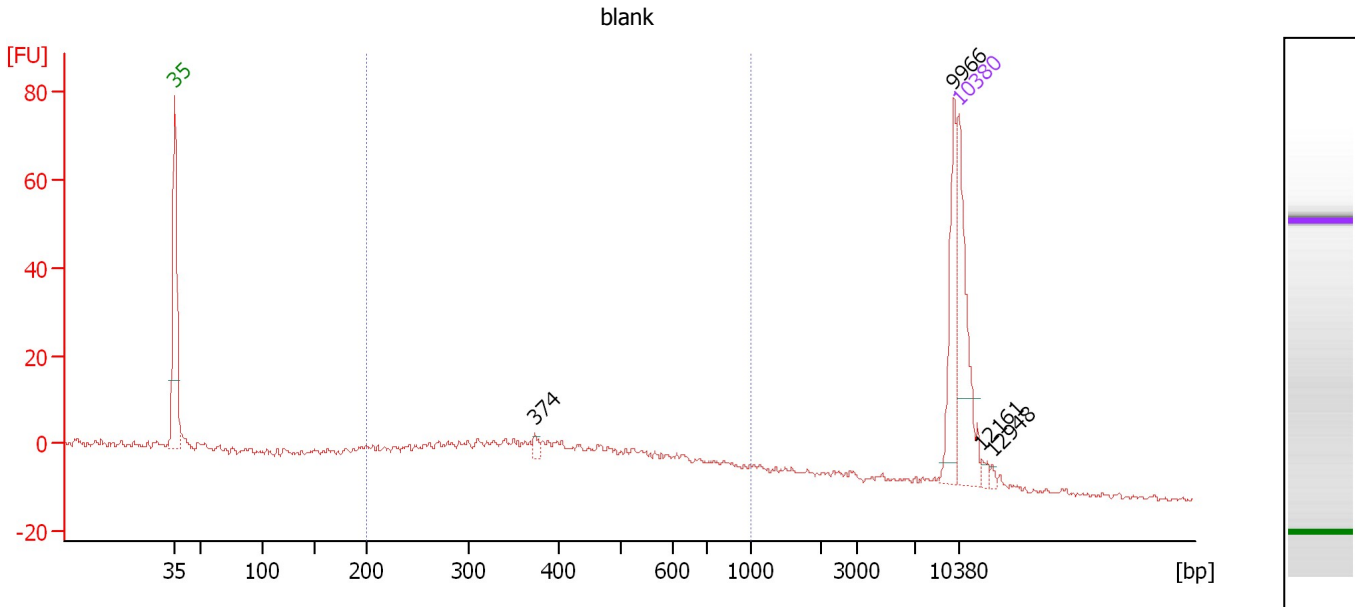
Region table for sample 6 : Lisa Miller BAL Redo

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Molarity [pmol/l]	Color
200	432	1,000	2,755.5	84	30.0	12,277.49	46,271.3	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : blank

Number of peaks found: 4 Corr. Area 1: 173.4
 Noise: 0.7

Peak table for sample 7 : blank

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	374	6.60	26.8		75.12
3	9,966	57.43	8.7		112.52
4	10,380	75.00	10.9	Upper Marker	113.00
5	12,161	0.00	0.0		115.05
6	12,948	0.00	0.0		115.95

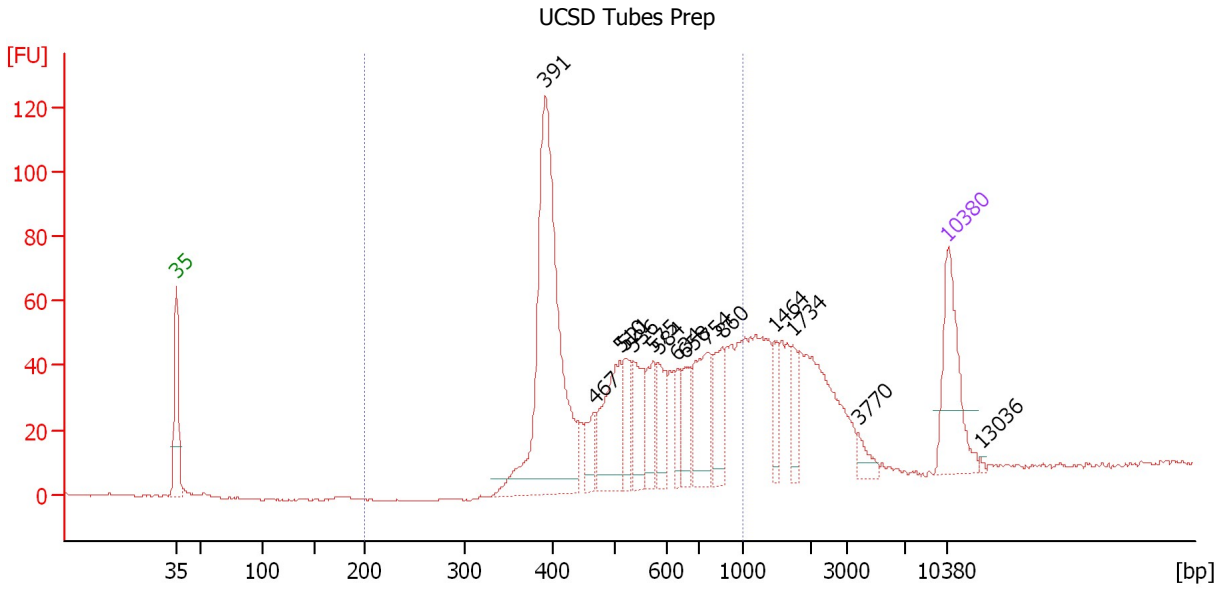
Region table for sample 7 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	441	1,000	173.4	61	37.7	251.96	1,039.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : UCSD Tubes Prep

Number of peaks found: 15 Corr. Area 1: 909.0
 Noise: 0.2

Peak table for sample 8 : UCSD Tubes Prep

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	391	381.25	1,476.9		76.52
3	467	29.22	94.8		80.98
4	510	92.39	274.4		83.30
5	521	39.84	116.0		83.79
6	536	52.12	147.3		84.52
7	575	38.97	102.7		86.31
8	584	37.45	97.1		86.74
9	634	24.58	58.7		88.54
10	658	32.71	75.3		89.26
11	754	74.57	149.8		91.25
12	860	43.64	76.9		92.61
13	1,464	22.88	23.7		97.30
14	1,734	23.86	20.8		99.00
15	3,770	12.77	5.1		104.96
16	10,380	75.00	10.9	Upper Marker	113.00
17	13,036	0.00	0.0		116.05

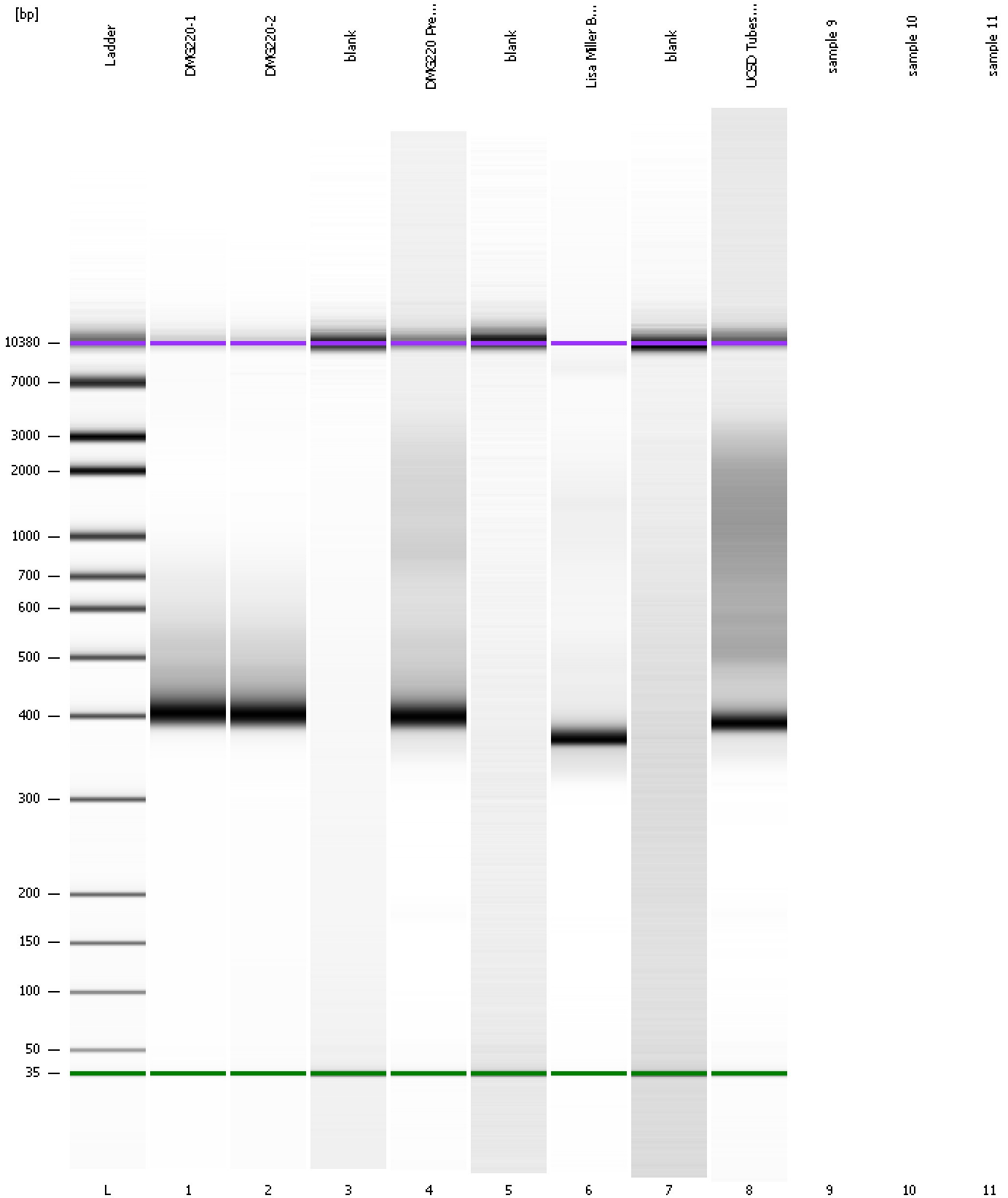
Region table for sample 8 : UCSD Tubes Prep

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	565	1,000	909.0	70	30.6	881.36	2,638.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
Modified: 2/19/2015 5:12:25 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
Modified: 2/19/2015 5:12:25 PM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad

Created: 2/19/2015 4:39:38 PM
 Modified: 2/19/2015 5:12:25 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		2/19/2015 5:12:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-19\2015-02-19_002.xad)		Instrument	Run		2/19/2015 4:39:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/19/2015 4:39:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/19/2015 4:39:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/19/2015 4:39:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/19/2015 4:39:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/19/2015 4:39:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/19/2015 4:39:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1