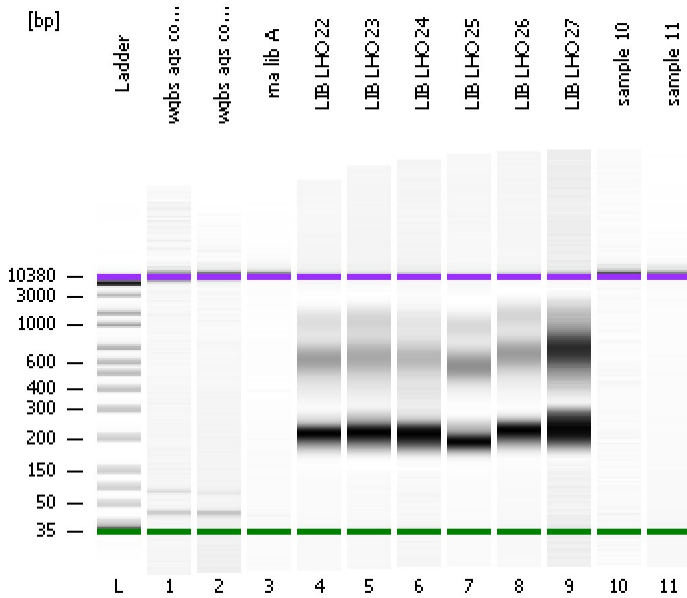


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
Modified: 7/8/2013 3:30:01 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

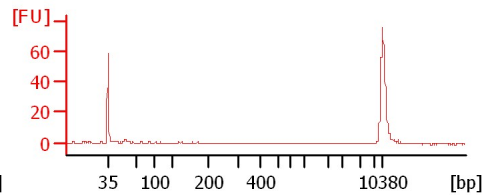
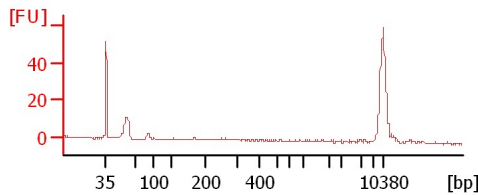
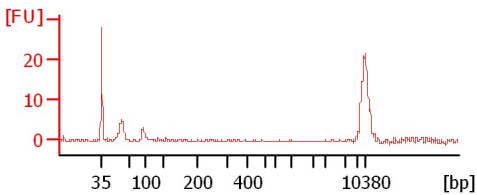
Chip Information:

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

wgbs ags control 1

wgbs ags control 2

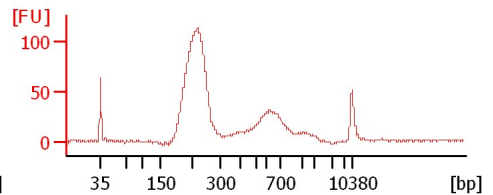
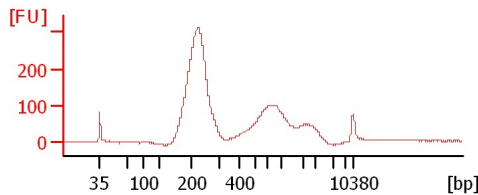
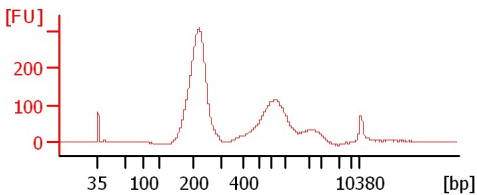
rna lib A



LIB LHO 22

LIB LHO 23

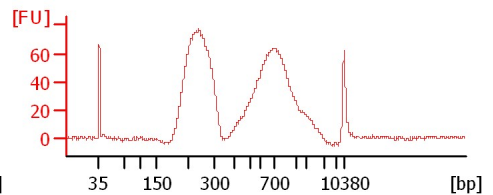
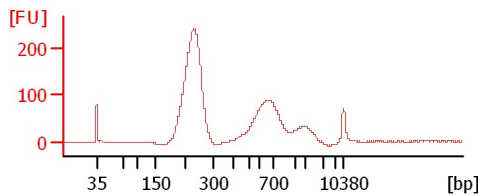
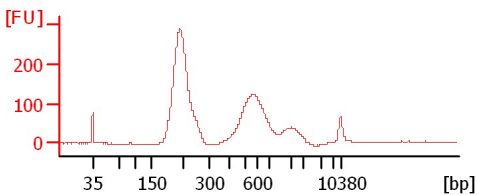
LIB LHO 24



LIB LHO 25

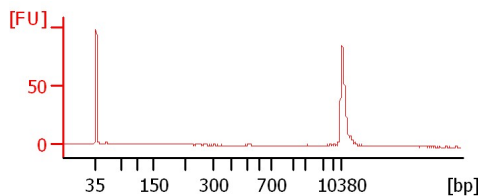
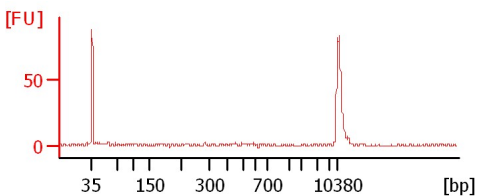
LIB LHO 26

LIB LHO 27



sample 10

sample 11



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
Modified: 7/8/2013 3:30:01 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
wgbs ags control 1		<input type="checkbox"/>	✓			
wgbs ags control 2		<input type="checkbox"/>	✓			
rna lib A		<input type="checkbox"/>	✓			
LIB LHO 22		<input type="checkbox"/>	✓			
LIB LHO 23		<input type="checkbox"/>	✓			
LIB LHO 24		<input type="checkbox"/>	✓			
LIB LHO 25		<input type="checkbox"/>	✓			
LIB LHO 26		<input type="checkbox"/>	✓			
LIB LHO 27		<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\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
Modified: 7/8/2013 3:30:01 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

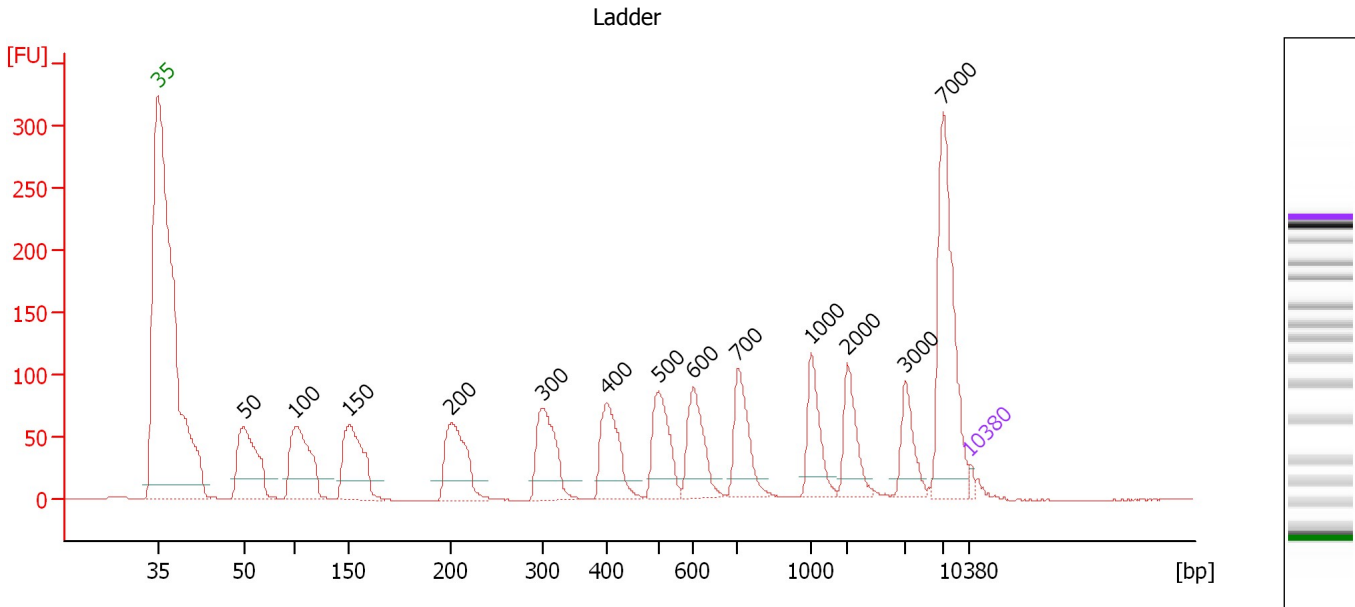
Ladder

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\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
 Modified: 7/8/2013 3:30:01 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

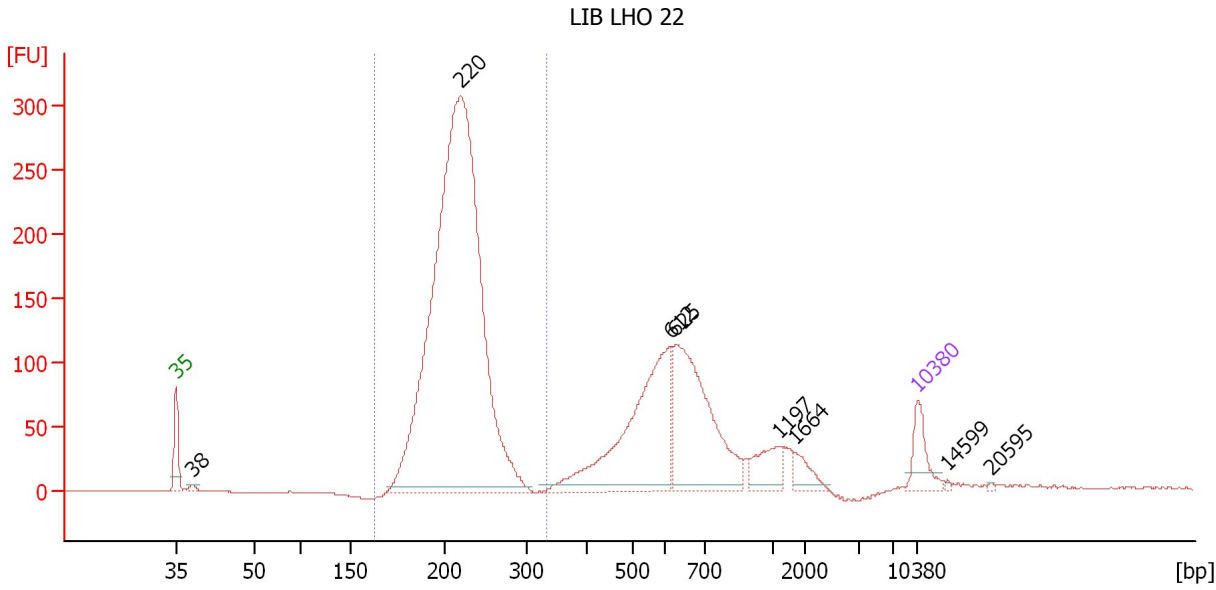
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
 Modified: 7/8/2013 3:30:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : LIB LHO 22

Number of peaks found: 8 Corr. Area 1: 2,296.6
 Noise: 0.2

Peak table for sample 4 : LIB LHO 22

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	16.66	661.6	
3	220	3,403.38	23,388.8	
4	612	633.99	1,569.4	
5	625	561.73	1,361.1	
6	1,197	93.34	118.1	
7	1,664	49.18	44.8	
8	10,380	75.00	10.9	Upper Marker
9	14,599	0.00	0.0	
10	20,595	0.00	0.0	

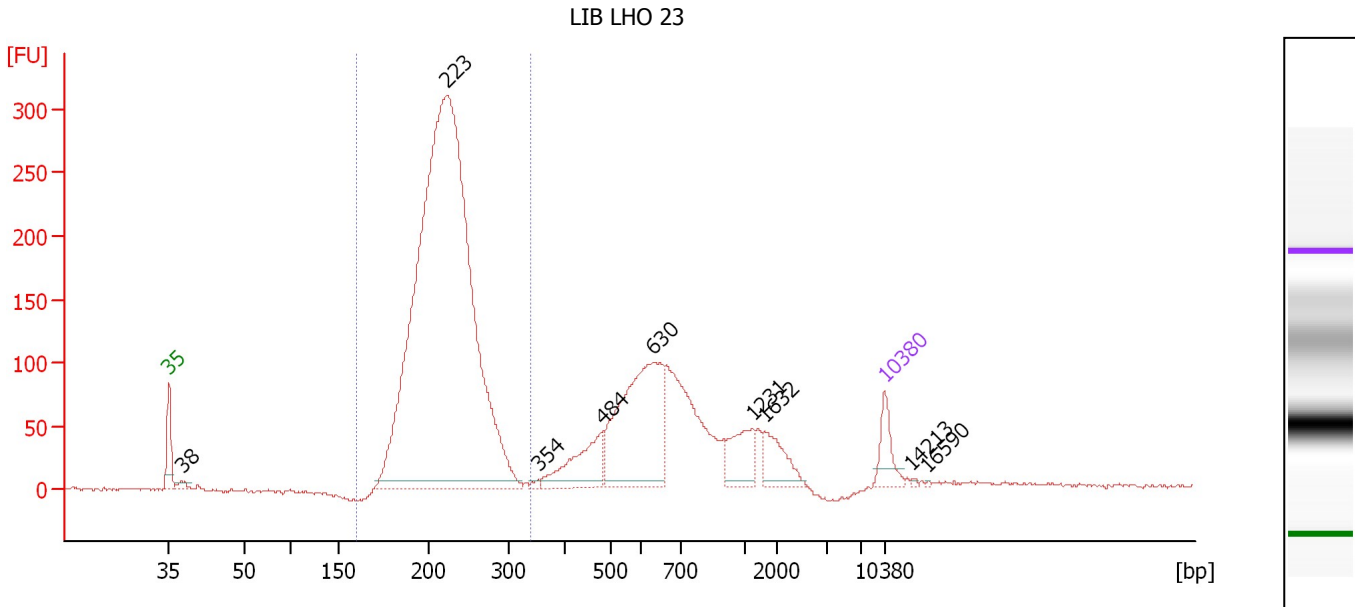
Region table for sample 4 : LIB LHO 22

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
163	333	218	23,866.2	3,397.55	2,296.6	64	10.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
 Modified: 7/8/2013 3:30:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : LIB LHO 23

Number of peaks found: 9 Corr. Area 1: 2,713.5
 Noise: 1.2

Peak table for sample 5 : LIB LHO 23

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	26.60	1,073.8	
3	223	4,421.02	29,976.4	
4	354	9.37	40.1	
5	484	219.18	686.6	
6	630	636.44	1,531.0	
7	1,231	128.54	158.2	
8	1,632	112.24	104.2	
9	10,380	75.00	10.9	Upper Marker
10	14,213	0.00	0.0	
11	16,590	0.00	0.0	

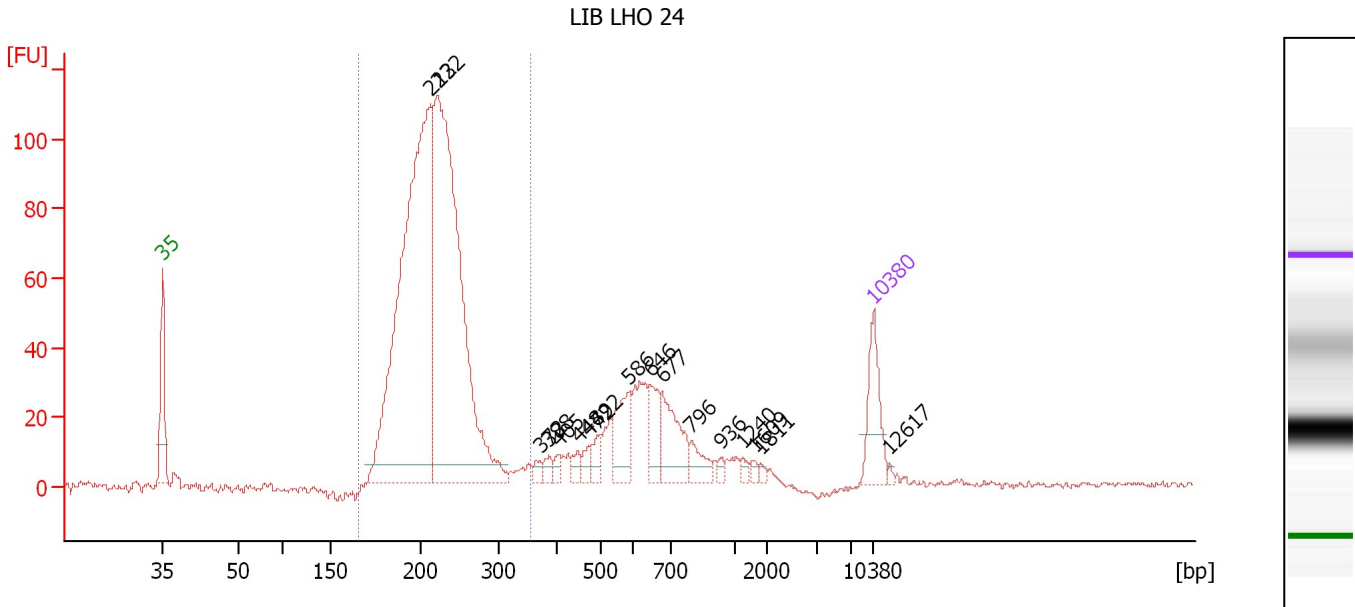
Region table for sample 5 : LIB LHO 23

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
160	339	224	30,437.1	4,430.25	2,713.5	66	12.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
 Modified: 7/8/2013 3:30:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : LIB LHO 24

Number of peaks found: 17 Corr. Area 1: 1,059.2
 Noise: 0.8

Peak table for sample 6 : LIB LHO 24

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	213	1,275.56	9,082.4	
3	222	1,146.08	7,815.4	
4	372	14.78	60.3	
5	388	15.79	61.7	
6	405	13.97	52.3	
7	448	17.72	59.9	
8	472	20.50	65.8	
9	492	26.97	83.1	
10	586	87.51	226.1	
11	646	58.65	137.6	
12	677	105.09	235.1	
13	796	36.61	69.7	
14	936	9.01	14.6	
15	1,240	9.25	11.3	
16	1,609	7.54	7.1	
17	1,811	5.52	4.6	
18	10,380	75.00	10.9	Upper Marker
19	12,617	0.00	0.0	

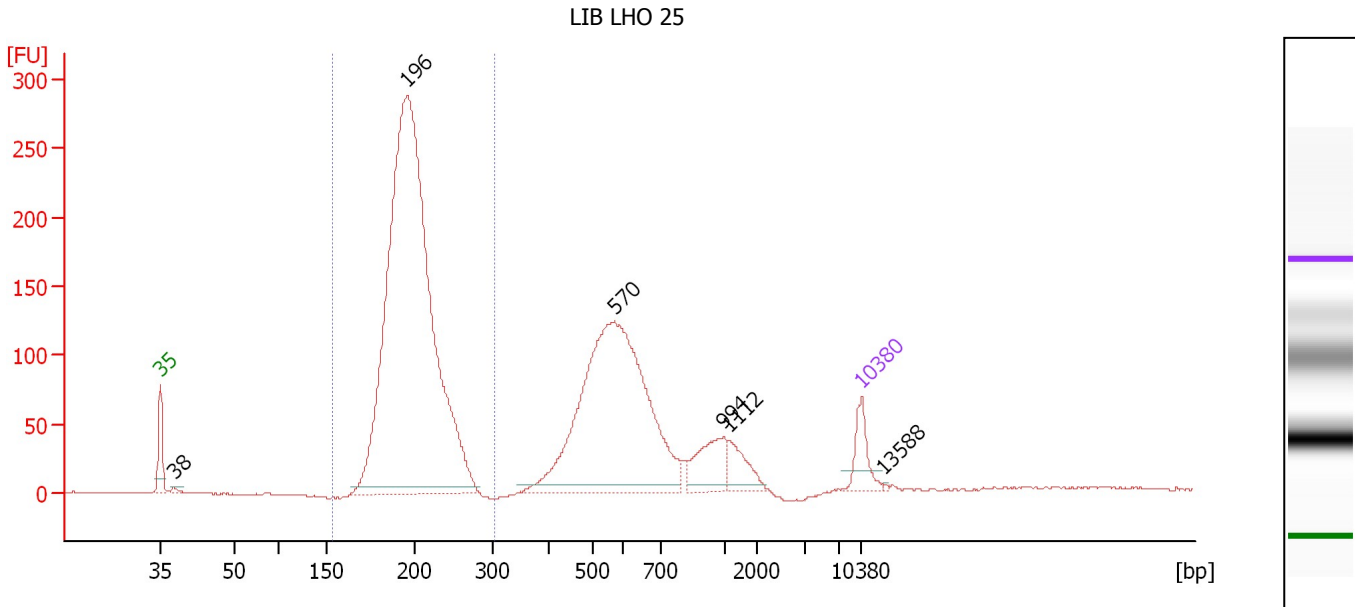
Region table for sample 6 : LIB LHO 24

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
166	355	220	17,625.9	2,513.30	1,059.2	74	13.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
 Modified: 7/8/2013 3:30:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : LIB LHO 25

Number of peaks found: 6 Corr. Area 1: 2,063.4
 Noise: 0.8

Peak table for sample 7 : LIB LHO 25

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	38	16.94	680.9	
3	196	3,457.29	26,717.4	
4	570	1,304.94	3,470.9	
5	994	139.91	213.3	
6	1,112	89.32	121.6	
7	10,380	75.00	10.9	Upper Marker
8	13,588	0.00	0.0	

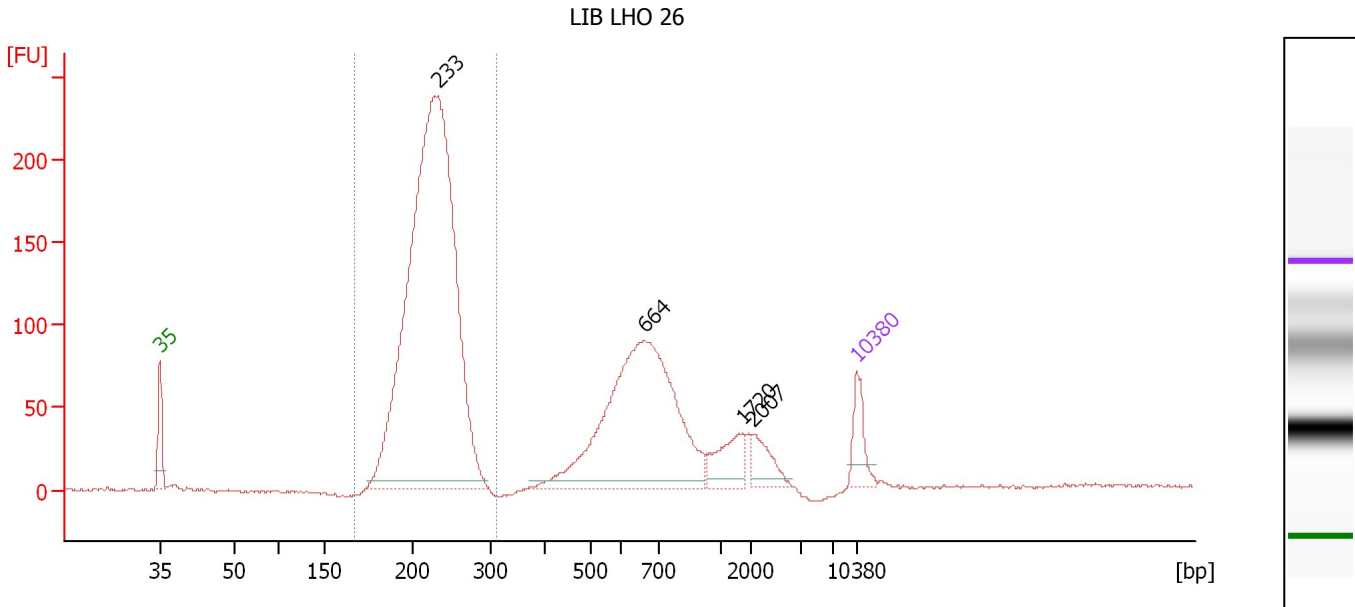
Region table for sample 7 : LIB LHO 25

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
154	305	203	25,218.4	3,355.81	2,063.4	61	9.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
 Modified: 7/8/2013 3:30:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : LIB LHO 26

Number of peaks found: 4 Corr. Area 1: 1,896.2
 Noise: 0.8

Peak table for sample 8 : LIB LHO 26

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	233	3,012.47	19,609.1	
3	664	1,021.95	2,330.2	
4	1,720	106.44	93.8	
5	2,007	76.25	57.6	
6	10,380	75.00	10.9	Upper Marker

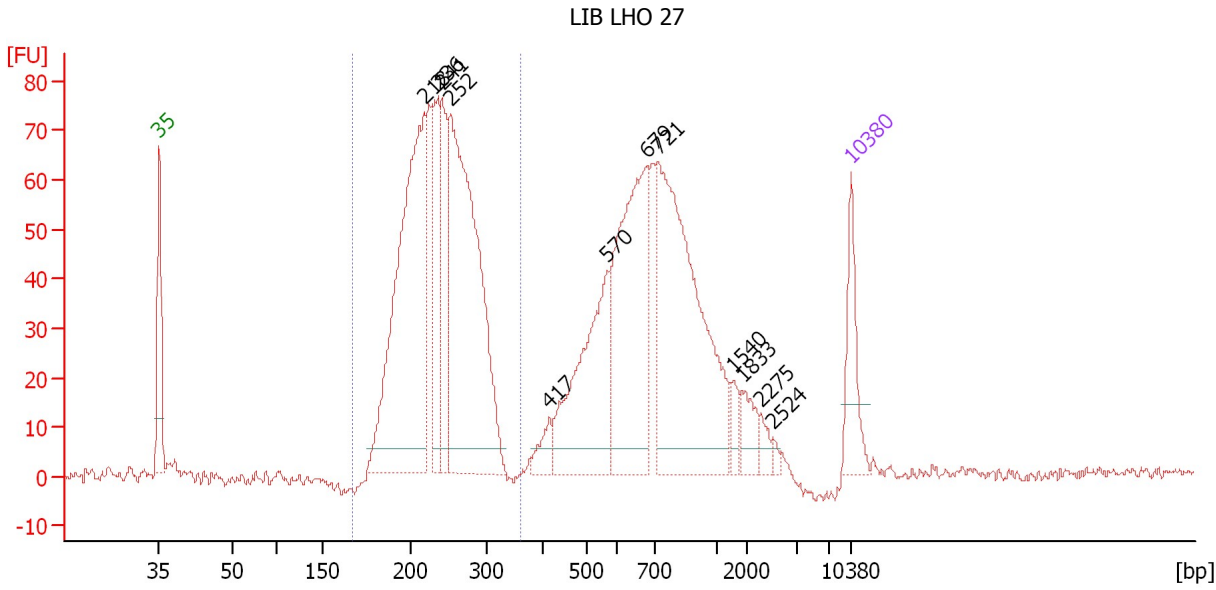
Region table for sample 8 : LIB LHO 26

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
168	311	226	21,589.7	3,185.45	1,896.2	97	11.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
 Modified: 7/8/2013 3:30:01 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : LIB LHO 27

Number of peaks found: 12 Corr. Area 1: 894.2
 Noise: 1.0

Peak table for sample 9 : LIB LHO 27

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	218	763.90	5,309.3	
3	236	192.14	1,233.9	
4	241	186.81	1,172.3	
5	252	765.00	4,590.7	
6	417	34.26	124.5	
7	570	280.60	746.3	
8	679	401.78	896.6	
9	721	570.12	1,198.3	
10	1,540	24.07	23.7	
11	1,833	38.87	32.1	
12	2,275	17.67	11.8	
13	2,524	6.46	3.9	
14	10,380	75.00	10.9	Upper Marker

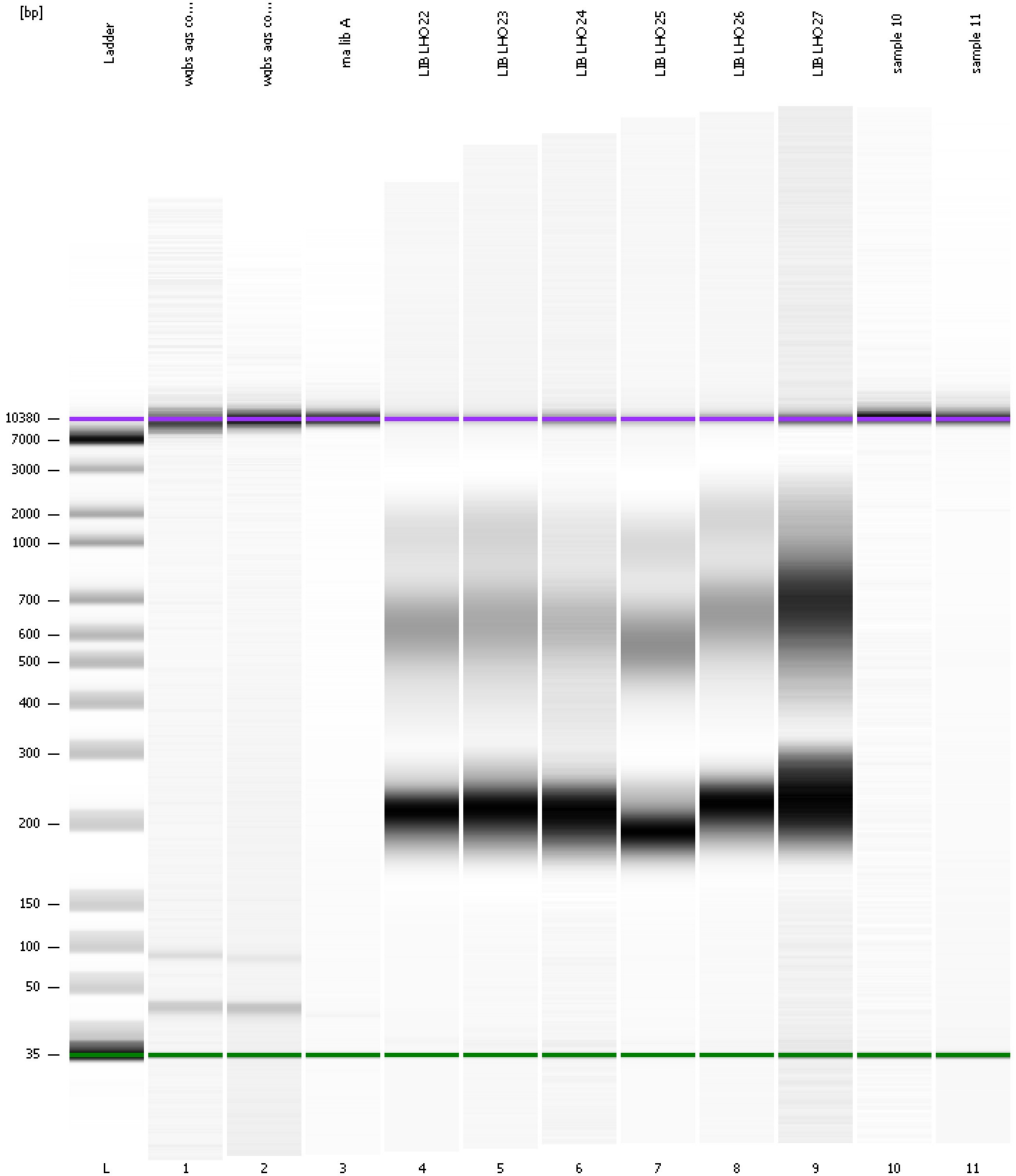
Region table for sample 9 : LIB LHO 27

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
167	361	238	13,244.1	2,044.82	894.2	51	14.6	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad

Created: 7/8/2013 2:19:08 PM
Modified: 7/8/2013 3:30:01 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 7/8/2013 2:19:08 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad Modified: 7/8/2013 3:30:01 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		7/8/2013 2:59:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-08\2013-07-08_006.xad)		Instrument	Run		7/8/2013 2:19:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/8/2013 2:19:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/8/2013 2:19:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/8/2013 2:19:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/8/2013 2:19:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/8/2013 2:19:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/8/2013 2:19:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1