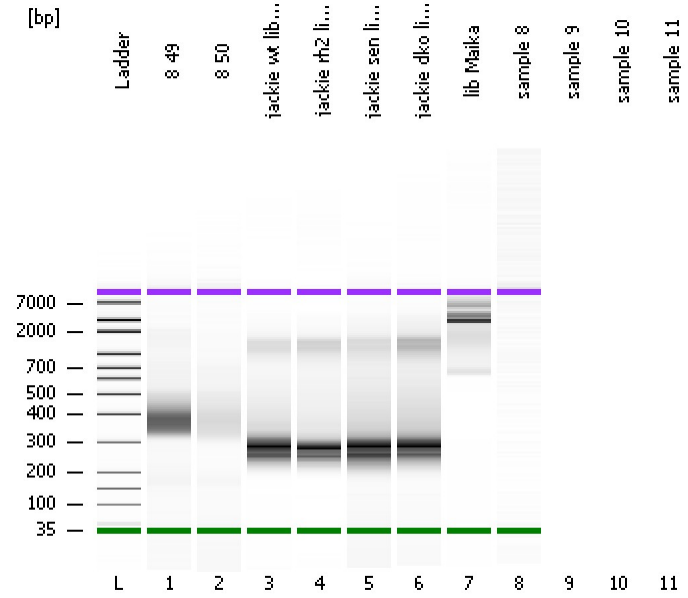
Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

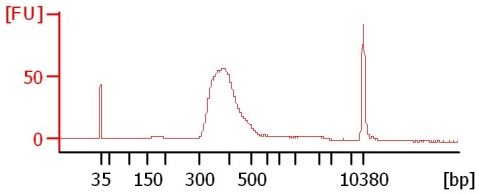
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

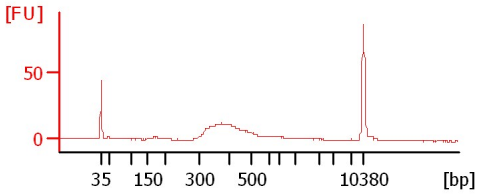
Chip Information:

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

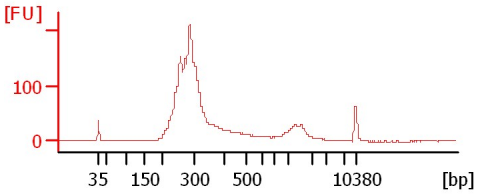
8 49



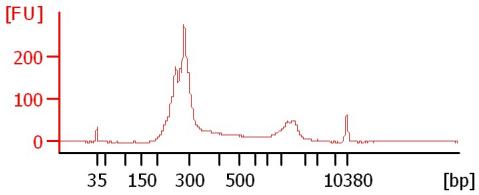
8 50



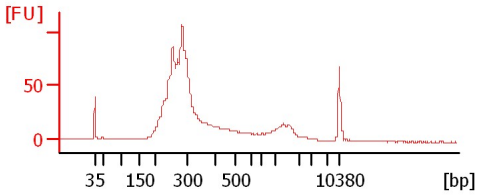
jackie wt lib dripc i20 clean



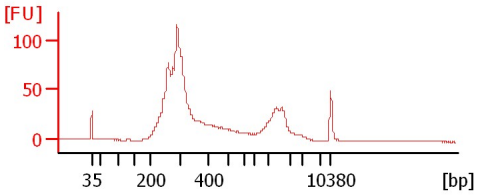
jackie rh2 lib dripc i21 clean



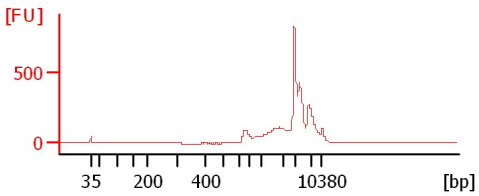
jackie sen lib dripc i22 clean



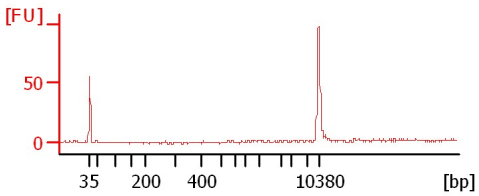
jackie dko lib dripc i23 clean



lib Maika



sample 8



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
8 49		☐	✔			
8 50		☐	✔			
jackie wt lib dripc i20 clean		☐	✔			
jackie rh2 lib dripc i21 clean		☐	✔			
jackie sen lib dripc i22 clean		☐	✔			
jackie dko lib dripc i23 clean		☐	✔			
lib Maika		☐	✔			
sample 8		☐	✔			
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 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

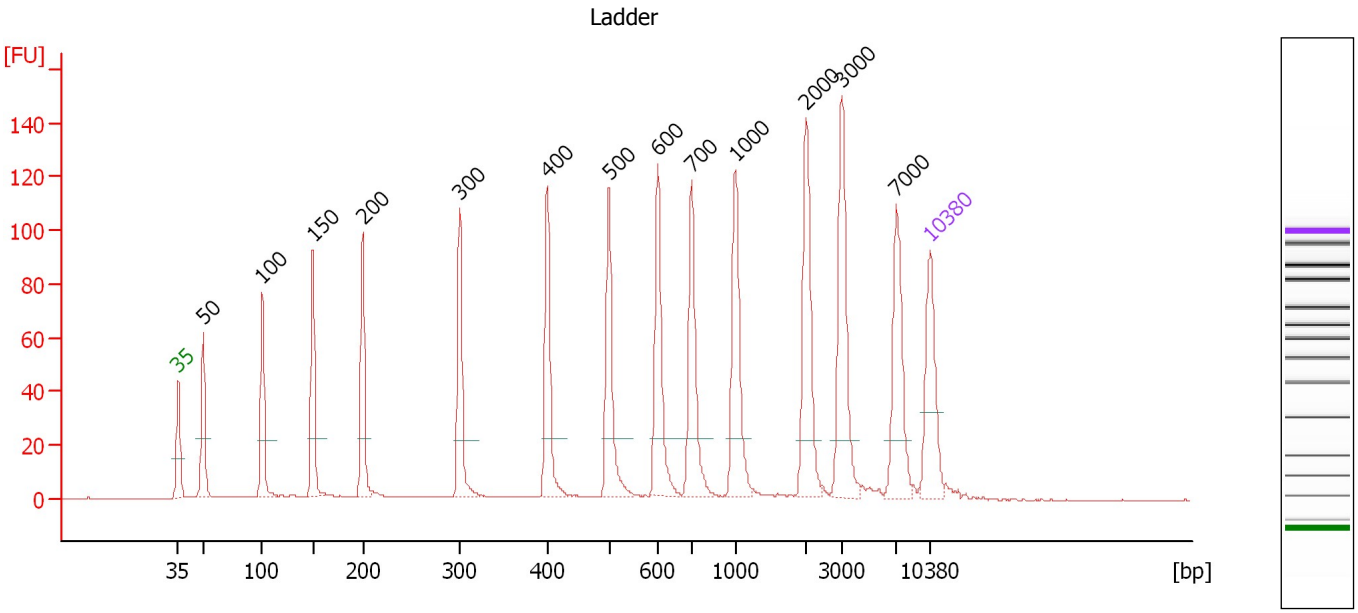
Ladder

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\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

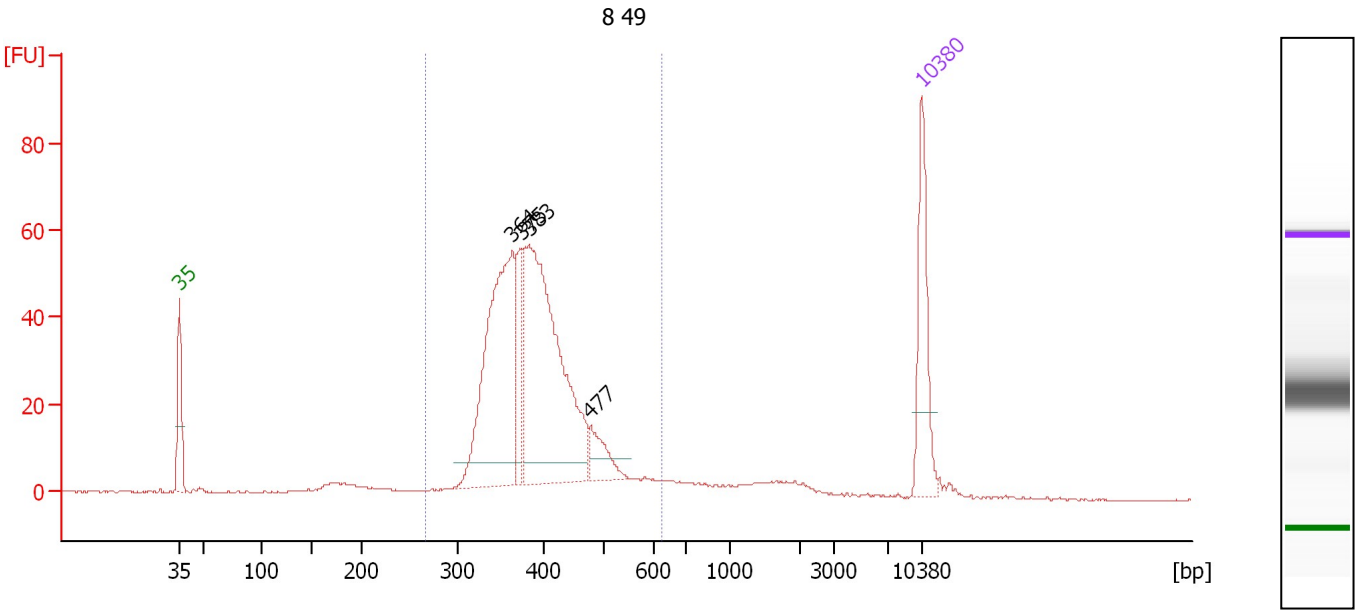
Peak table for Ladder

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	45.33
3		100	150.00	2,272.7	Ladder Peak	50.84
4		150	150.00	1,515.2	Ladder Peak	55.56
5		200	150.00	1,136.4	Ladder Peak	60.18
6		300	150.00	757.6	Ladder Peak	69.21
7		400	150.00	568.2	Ladder Peak	77.35
8		500	150.00	454.5	Ladder Peak	83.11
9		600	150.00	378.8	Ladder Peak	87.68
10		700	150.00	324.7	Ladder Peak	90.81
11		1,000	150.00	227.3	Ladder Peak	94.88
12		2,000	150.00	113.6	Ladder Peak	101.48
13		3,000	150.00	75.8	Ladder Peak	104.81
14		7,000	150.00	32.5	Ladder Peak	109.87
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 8 49

Number of peaks found:	4	Corr. Area 1:	650.3
Noise:	0.2		

Peak table for sample 1 : 8 49

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		364	307.79	1,280.9		74.43
3		375	63.84	258.2		75.28
4		383	382.27	1,511.4		75.99
5		477	36.93	117.4		81.77
6	▶	10,380	75.00	10.9	Upper Marker	113.00

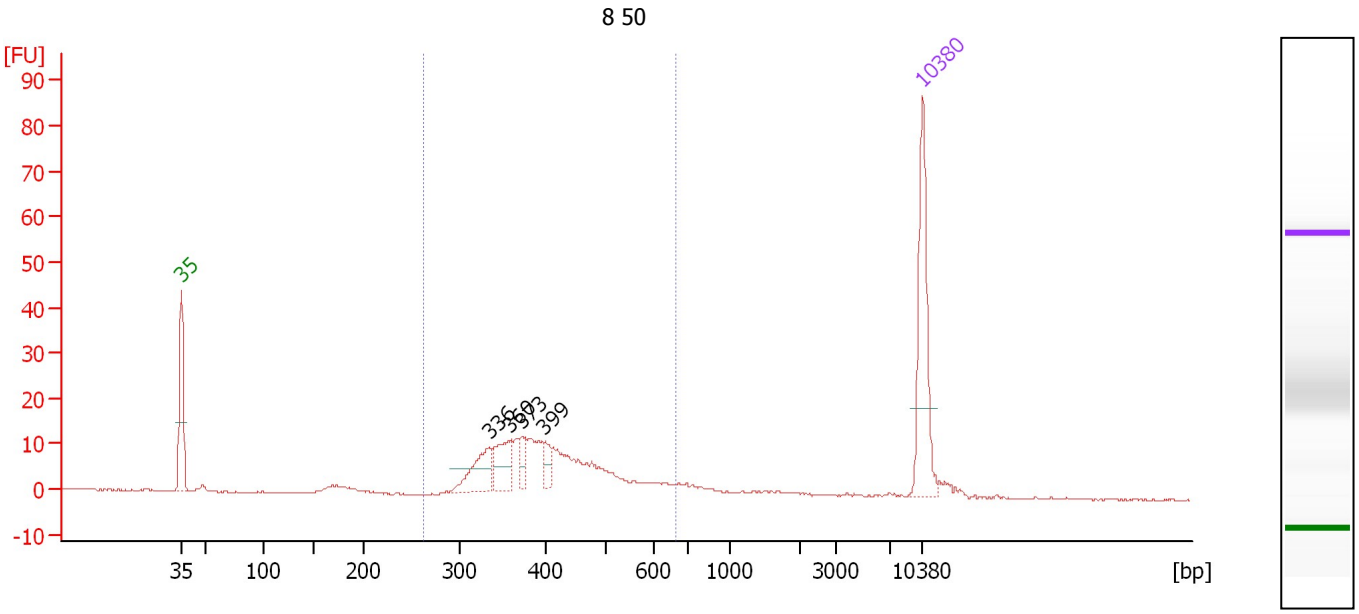
Region table for sample 1 : 8 49

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
268	625	395	650.3	3,500.7	892.17	88	14.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 8 50

Number of peaks found:	4	Corr. Area 1:	183.9
Noise:	0.2		

Peak table for sample 2 : 8 50

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		336	43.43	196.1		72.11
3		360	39.60	166.8		74.07
4		373	16.16	65.6		75.18
5		399	16.47	62.5		77.29
6	▶	10,380	75.00	10.9	Upper Marker	113.00

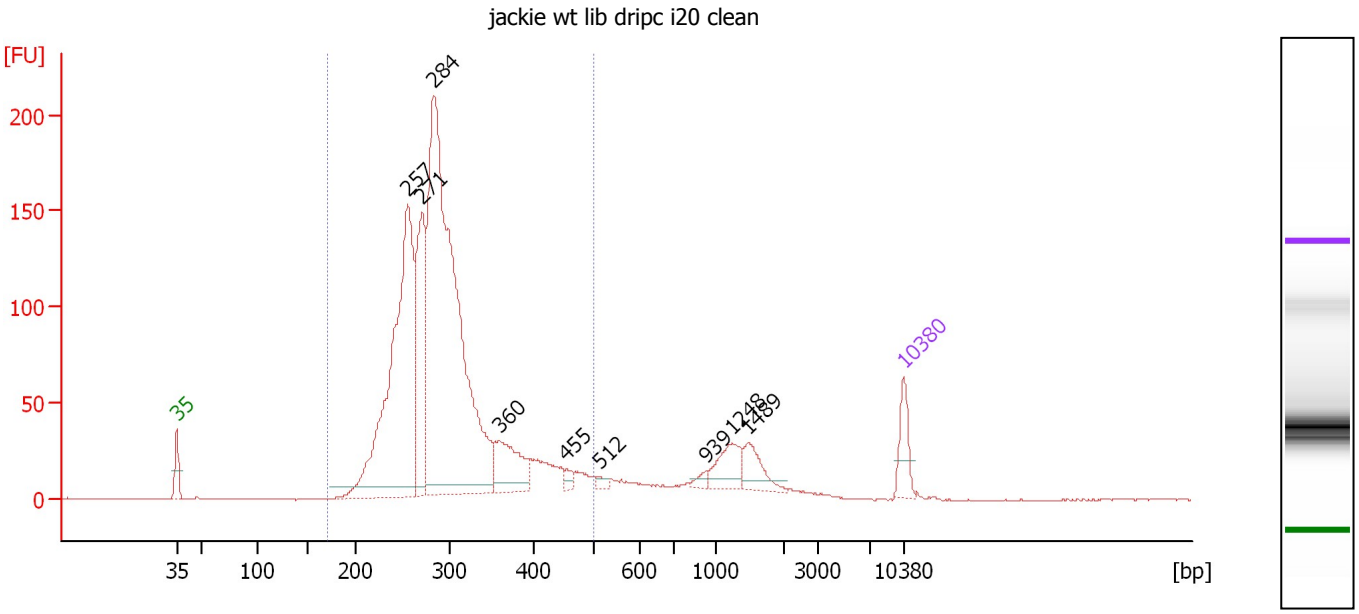
Region table for sample 2 : 8 50

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
263	662	413	183.9	1,063.5	278.15	85	19.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : jackie wt lib dripc i20 clean

Number of peaks found:	9	Corr. Area 1:	1,991.1
Noise:	0.1		

Peak table for sample 3 : jackie wt lib dripc i20 clean

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	257	1,342.24	7,926.3		65.29
3	271	490.89	2,741.0		66.62
4	284	2,199.34	11,739.5		67.75
5	360	223.56	941.8		74.07
6	455	23.03	76.6		80.54
7	512	17.63	52.1		83.67
8	939	18.77	30.3		94.05
9	1,248	100.12	121.6		96.51
10	1,489	81.05	82.5		98.11
11	10,380	75.00	10.9	Upper Marker	113.00

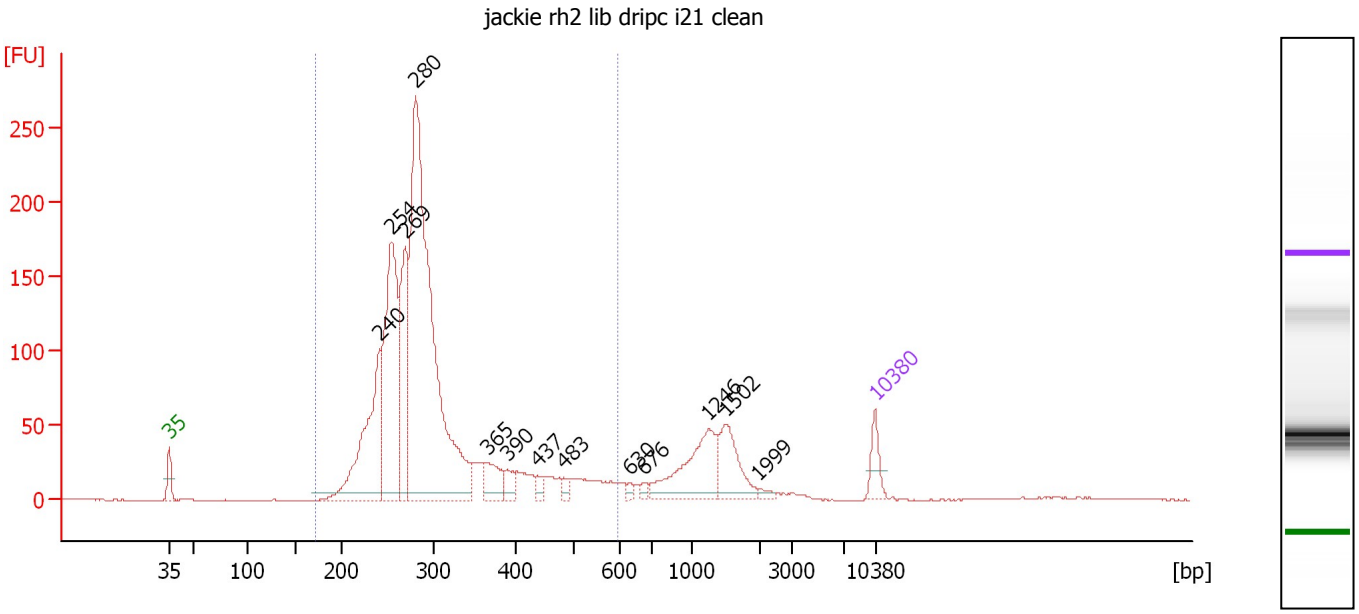
Region table for sample 3 : jackie wt lib dripc i20 clean

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
172	504	297	1,991.1	24,050.3	4,551.36	88	18.6

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : jackie rh2 lib dripc i21 clean

Number of peaks found:	13	Corr. Area 1:	2,125.4
Noise:	0.2		

Peak table for sample 4 : jackie rh2 lib dripc i21 clean

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	240	786.38	4,955.5		63.83
3	254	1,036.92	6,188.0		65.05
4	269	600.75	3,382.4		66.42
5	280	2,587.84	13,992.2		67.43
6	365	151.64	629.3		74.51
7	390	62.58	243.3		76.52
8	437	33.52	116.3		79.48
9	483	27.79	87.2		82.12
10	630	17.71	42.6		88.63
11	676	20.48	45.9		90.05
12	1,246	334.01	406.1		96.50
13	1,502	203.69	205.4		98.20
14	1,999	16.35	12.4		101.47
15	10,380	75.00	10.9	Upper Marker	113.00

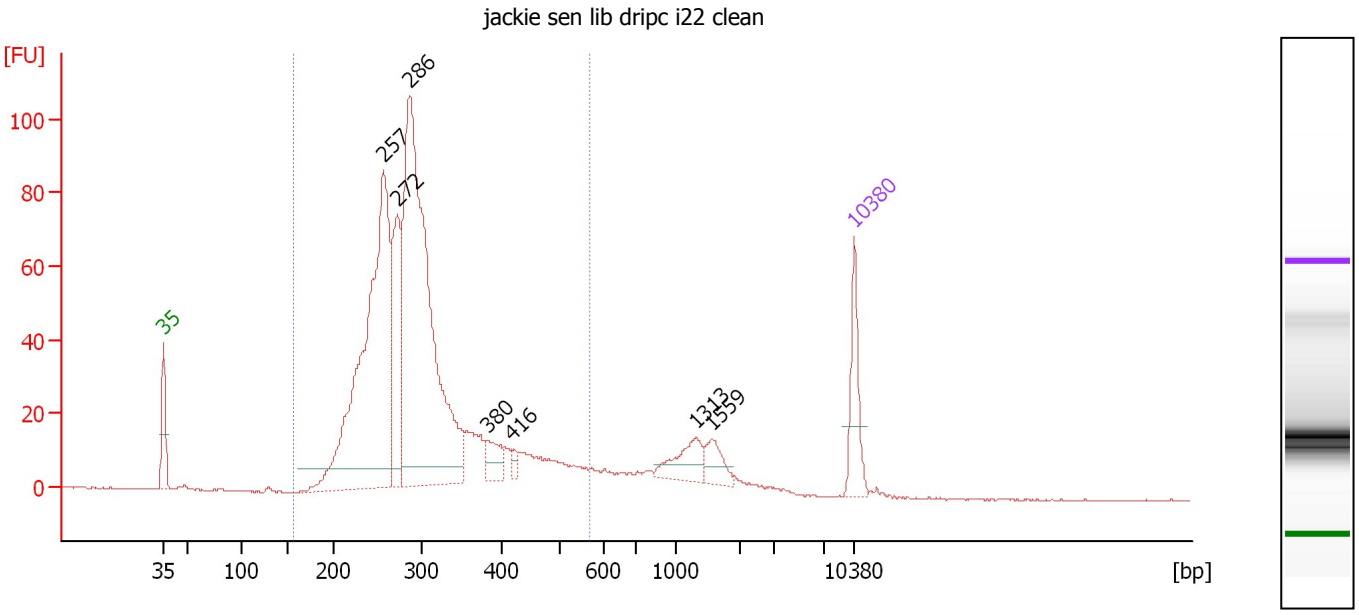
Region table for sample 4 : jackie rh2 lib dripc i21 clean

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
171	596	300	2,125.4	29,936.5	5,615.17	85	24.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : jackie sen lib dripc i22 clean

Number of peaks found:	7	Corr. Area 1:	1,135.4
Noise:	0.2		

Peak table for sample 5 : jackie sen lib dripc i22 clean

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	257	893.88	5,270.6		65.32
3	272	231.48	1,289.8		66.68
4	286	1,053.03	5,584.9		67.92
5	380	47.05	187.4		75.76
6	416	13.61	49.5		78.30
7	1,313	58.90	68.0		96.95
8	1,559	38.38	37.3		98.57
9	10,380	75.00	10.9	Upper Marker	113.00

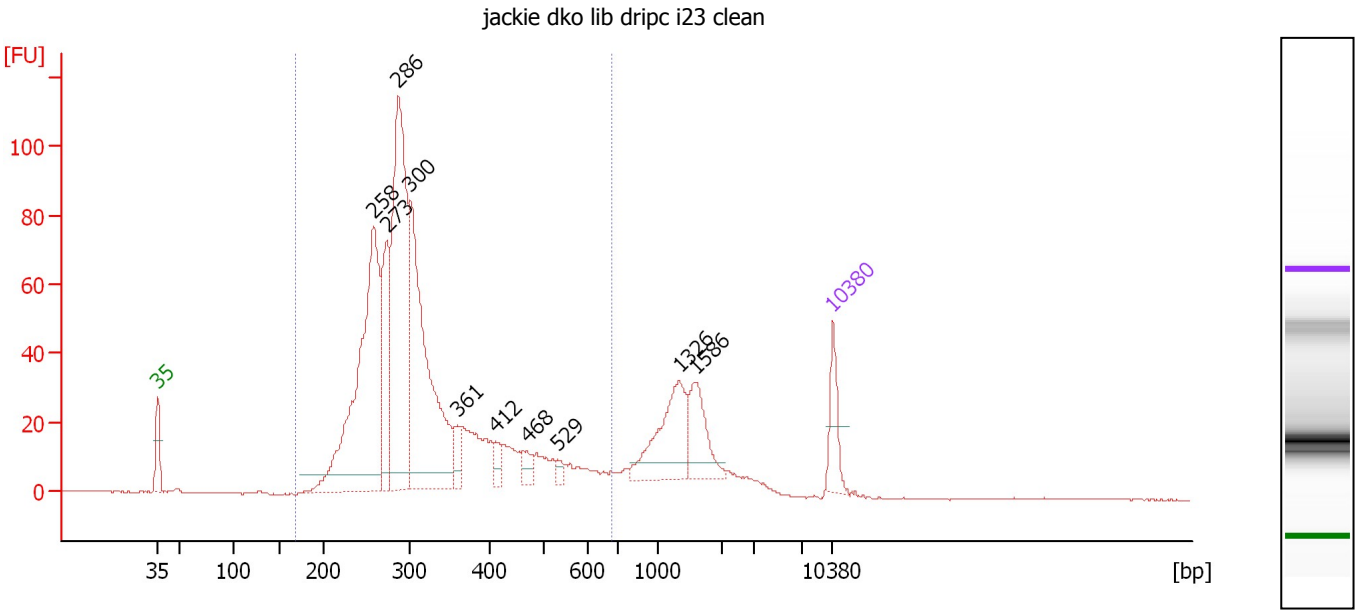
Region table for sample 5 : jackie sen lib dripc i22 clean

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
156	567	301	1,135.4	13,624.2	2,563.78	88	23.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : jackie dko lib dripc i23 clean

Number of peaks found:	10	Corr. Area 1:	1,164.7
Noise:	0.2		

Peak table for sample 6 : jackie dko lib dripc i23 clean

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	258	966.74	5,687.7		65.38
3	273	302.08	1,677.7		66.76
4	286	857.67	4,539.4		67.97
5	300	775.69	3,921.2		69.19
6	361	48.75	204.7		74.16
7	412	36.13	133.0		78.03
8	468	38.46	124.5		81.29
9	529	18.92	54.2		84.44
10	1,326	212.57	242.9		97.03
11	1,586	126.69	121.1		98.75
12	10,380	75.00	10.9	Upper Marker	113.00

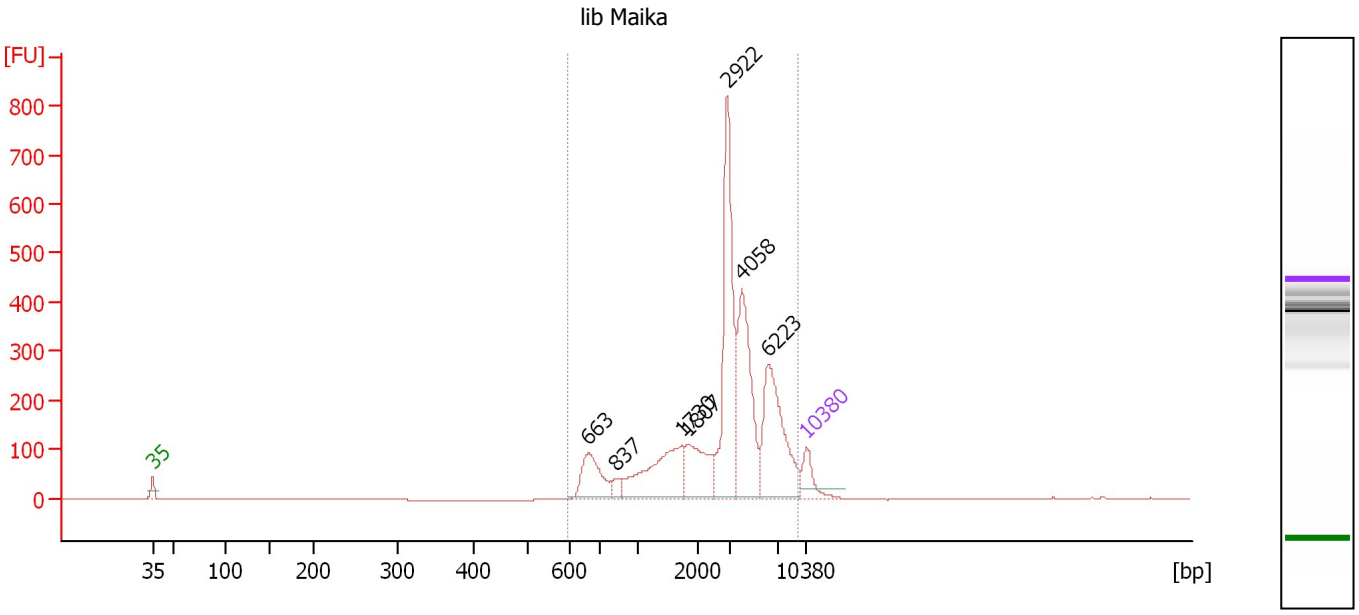
Region table for sample 6 : jackie dko lib dripc i23 clean

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/µl]	% of Total	Size distribution in CV [%]
169	675	324	1,164.7	18,407.2	3,637.12	82	27.8

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : lib Maika

Number of peaks found:	7	Corr. Area 1:	3,177.9
Noise:	0.1		

Peak table for sample 7 : lib Maika

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	663	189.37	432.8		89.65
3	837	33.76	61.1		92.67
4	1,730	297.03	260.2		99.70
5	1,807	186.77	156.6		100.21
6	2,922	548.22	284.3		104.55
7	4,058	402.96	150.4		106.15
8	6,223	391.84	95.4		108.89
9	10,380	75.00	10.9	Upper Marker	113.00

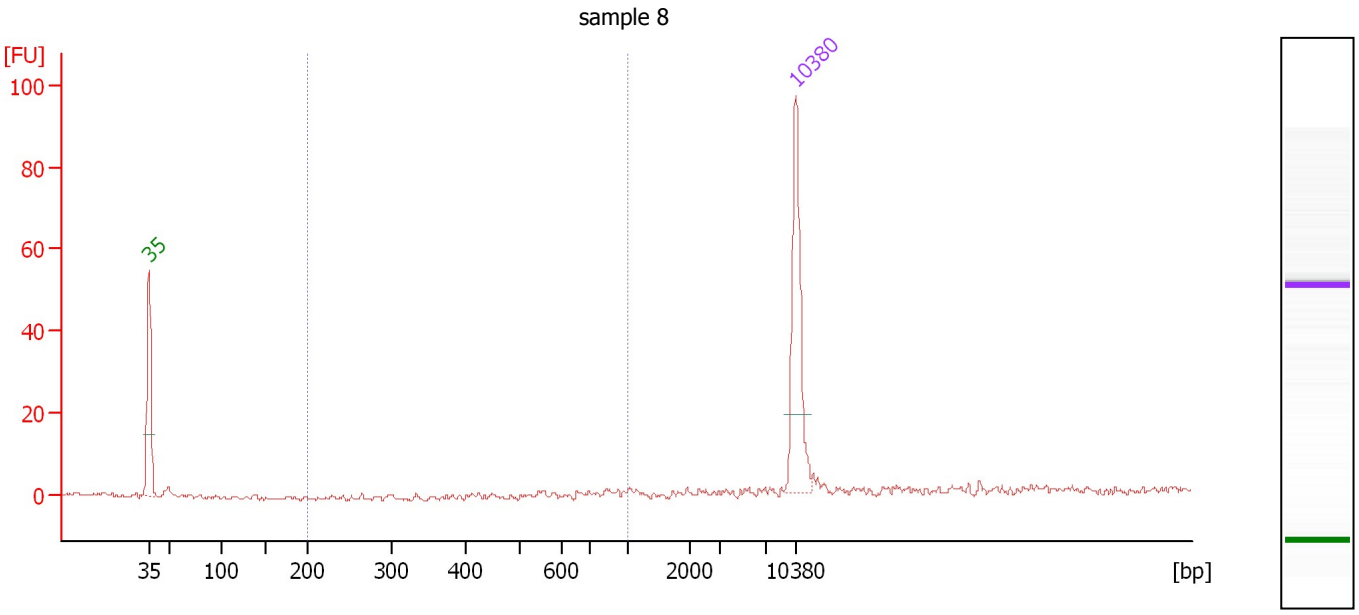
Region table for sample 7 : lib Maika

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
595	9,507	3,582	3,177.9	1,436.8	2,036.96	99	58.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found:	0	Corr. Area 1:	0.9
Noise:	0.5		

Peak table for sample 8 : sample 8

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

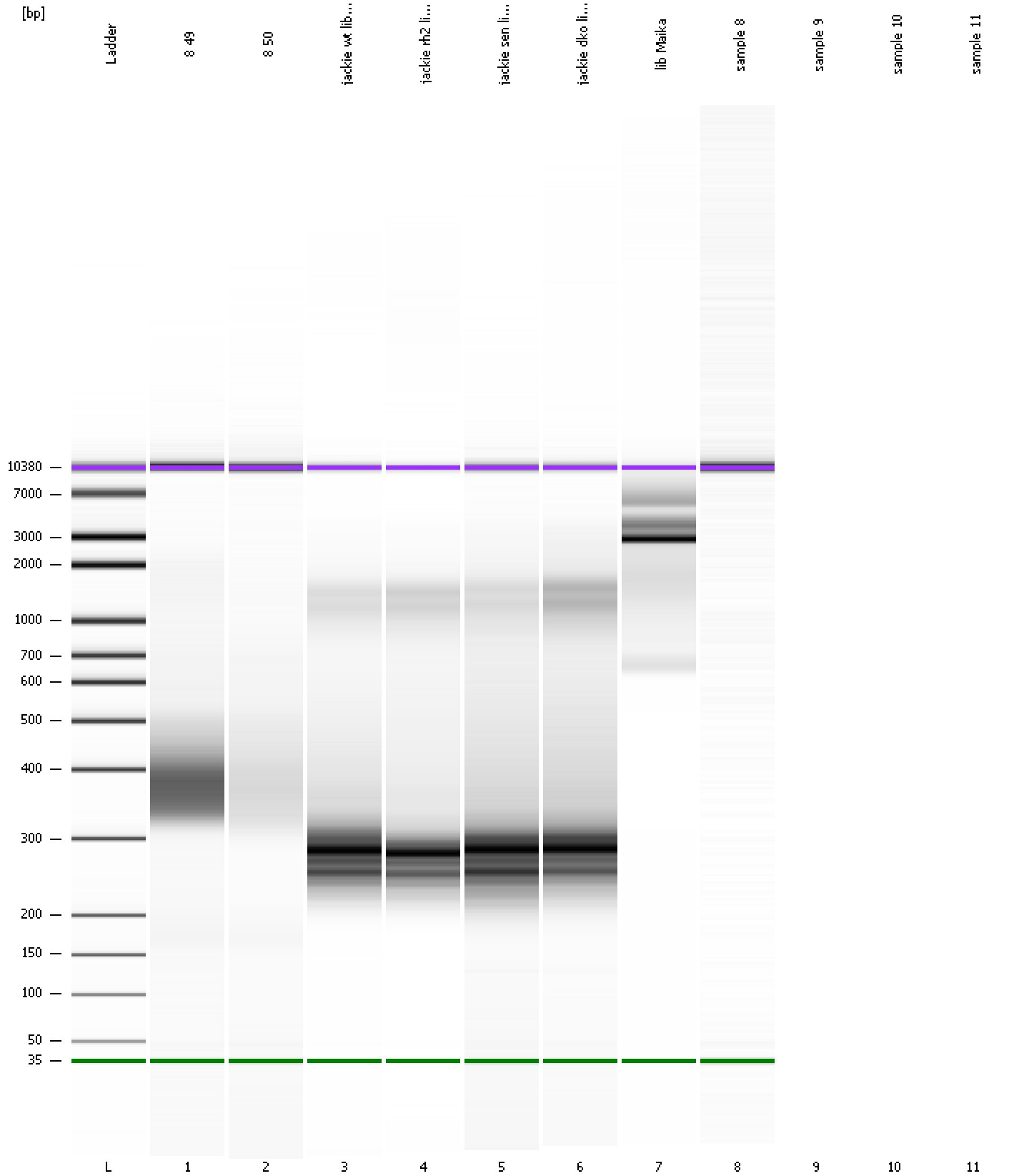
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	761	0.9	2.0	0.93	5	19.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 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:\... bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad

Created: 6/20/2016 3:20:04 PM
Modified: 6/20/2016 3:52:47 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		6/20/2016 3:52:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-20\2016-06-20_003.xad)		Instrument	Run		6/20/2016 3:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/20/2016 3:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/20/2016 3:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/20/2016 3:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/20/2016 3:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/20/2016 3:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/20/2016 3:20:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1