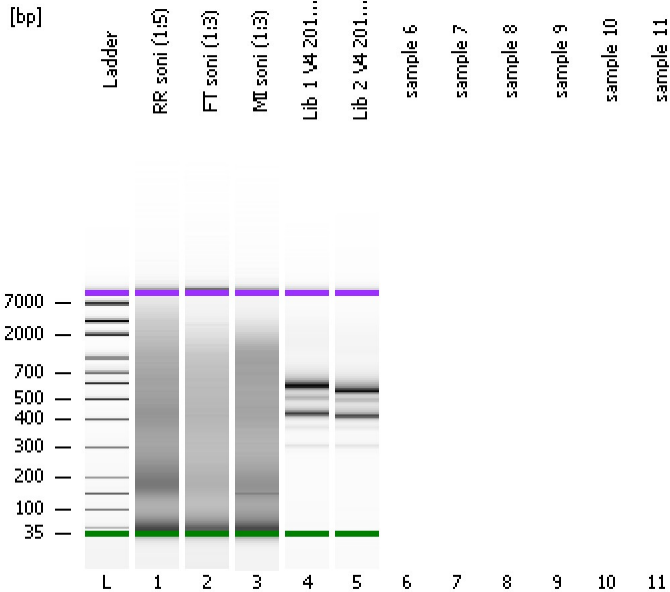


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
Modified: 2/23/2015 4:21:29 PM

**Electrophoresis File Run Summary**



Instrument Information:

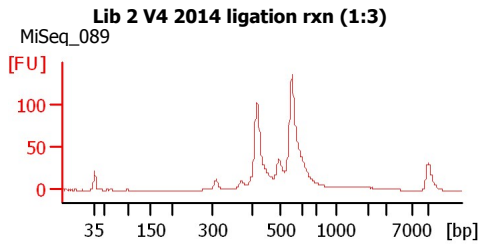
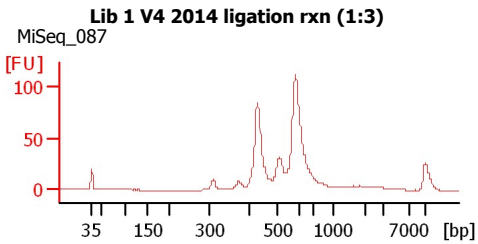
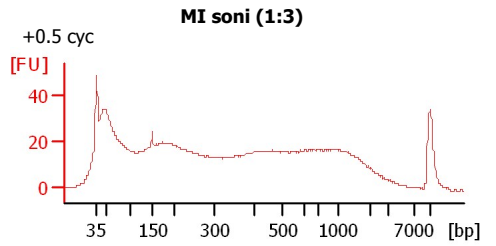
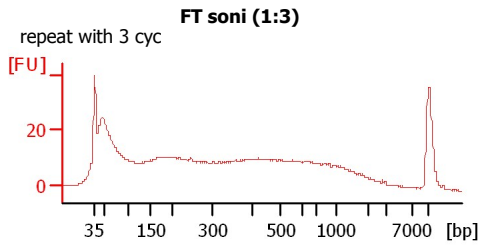
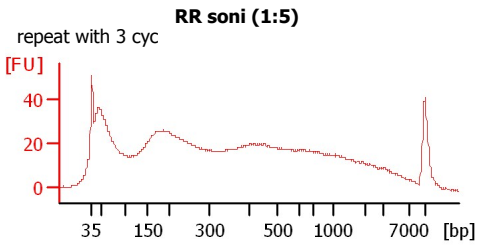
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
Modified: 2/23/2015 4:21:29 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RR soni (1:5)	repeat with 3 cyc	<input type="checkbox"/>	✓			
FT soni (1:3)	repeat with 3 cyc	<input type="checkbox"/>	✓			
MI soni (1:3)	+0.5 cyc	<input type="checkbox"/>	✓			
Lib 1 V4 2014 ligation rxn (1:3)	MiSeq_087	<input type="checkbox"/>	✓			
Lib 2 V4 2014 ligation rxn (1:3)	MiSeq_089	<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>				
sample 7		<input type="checkbox"/>				
sample 8		<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\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
Modified: 2/23/2015 4:21:29 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 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

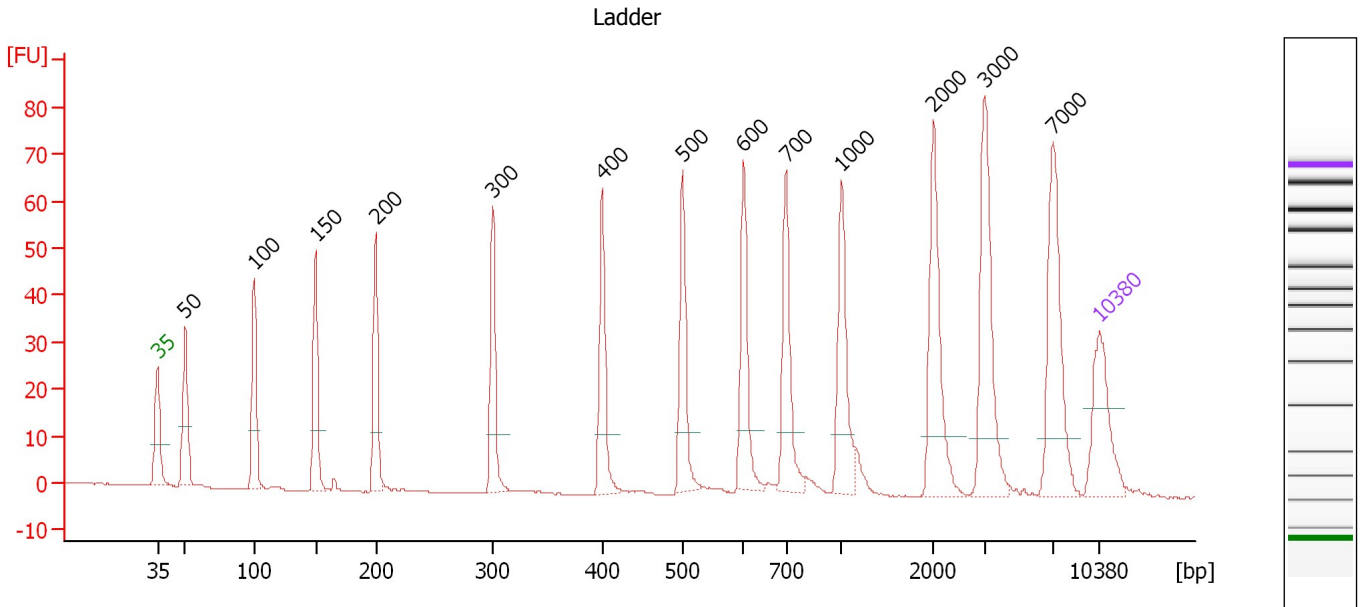
**Ladder**

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\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
 Modified: 2/23/2015 4:21:29 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

**Peak table for Ladder**

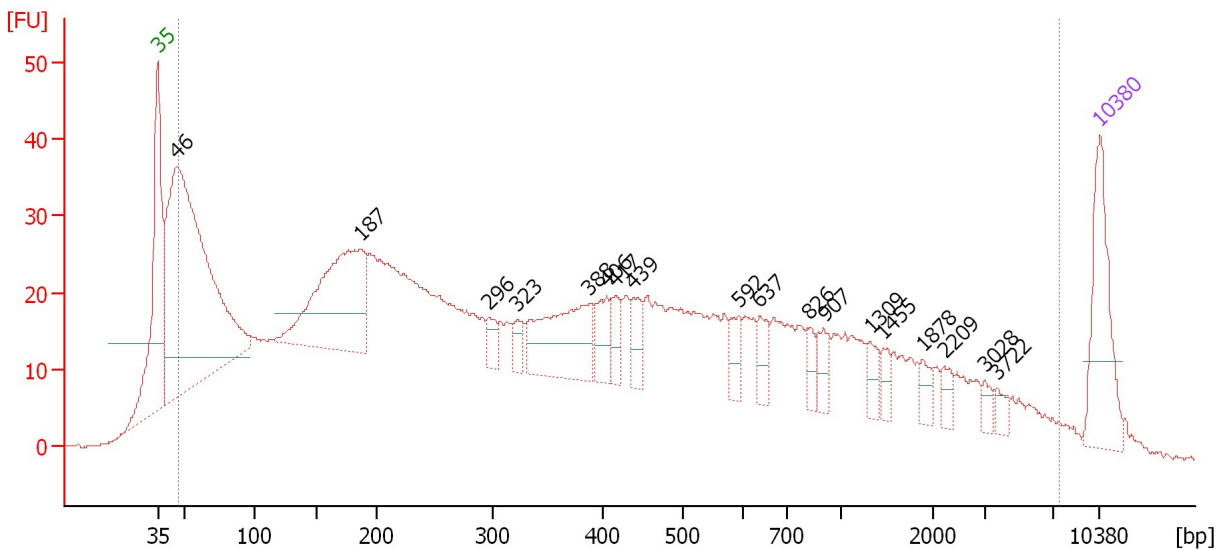
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.04
3	100	150.00	2,272.7	Ladder Peak	50.17
4	150	150.00	1,515.2	Ladder Peak	54.74
5	200	150.00	1,136.4	Ladder Peak	59.20
6	300	150.00	757.6	Ladder Peak	67.91
7	400	150.00	568.2	Ladder Peak	76.02
8	500	150.00	454.5	Ladder Peak	82.02
9	600	150.00	378.8	Ladder Peak	86.54
10	700	150.00	324.7	Ladder Peak	89.69
11	1,000	150.00	227.3	Ladder Peak	93.82
12	2,000	150.00	113.6	Ladder Peak	100.65
13	3,000	150.00	75.8	Ladder Peak	104.40
14	7,000	150.00	32.5	Ladder Peak	109.53
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
 Modified: 2/23/2015 4:21:29 PM

**Electropherogram Summary Continued ...**

RR soni (1:5) [ repeat with 3 cyc ]



**Overall Results for sample 1 : RR soni (1:5)**

Number of peaks found: 18                      Corr. Area 1: 1,591.0  
 Noise: 0.2

**Peak table for sample 1 : RR soni (1:5)**

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	46	652.41	21,662.1		44.45
3	187	235.84	1,908.2		58.07
4	296	19.51	99.8		67.58
5	323	16.50	77.5		69.74
6	388	112.20	437.6		75.08
7	406	32.08	119.8		76.36
8	417	23.44	85.2		77.03
9	439	25.13	86.7		78.36
10	592	20.69	52.9		86.20
11	637	22.47	53.5		87.70
12	826	15.08	27.6		91.43
13	907	18.82	31.4		92.54
14	1,309	14.48	16.8		95.93
15	1,455	11.00	11.5		96.93
16	1,878	12.20	9.8		99.82
17	2,209	11.41	7.8		101.44
18	3,028	7.53	3.8		104.44
19	3,722	8.25	3.4		105.33
20	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 1 : RR soni (1:5)**

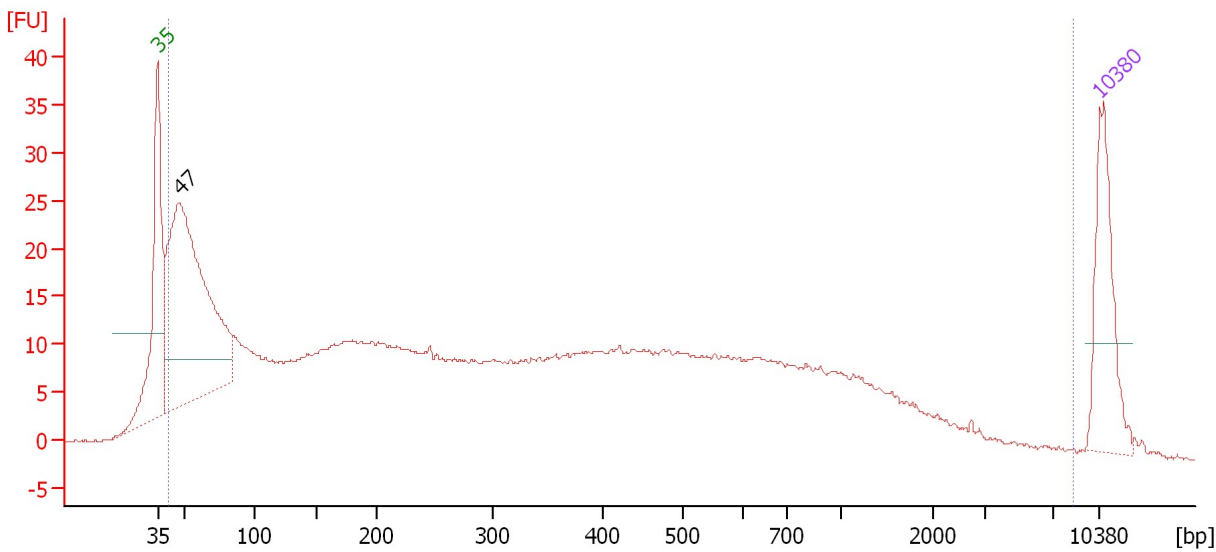
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
46	665	7,439	1,591.0	95	100.0	3,865.01	36,446.6	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
 Modified: 2/23/2015 4:21:29 PM

**Electropherogram Summary Continued ...**

FT soni (1:3) [ repeat with 3 cyc ]



**Overall Results for sample 2 : FT soni (1:3)**

Number of peaks found: 1                      Corr. Area 1: 850.8  
 Noise: 0.1

**Peak table for sample 2 : FT soni (1:3)**

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	47	474.89	15,317.7		44.63
3	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 2 : FT soni (1:3)**

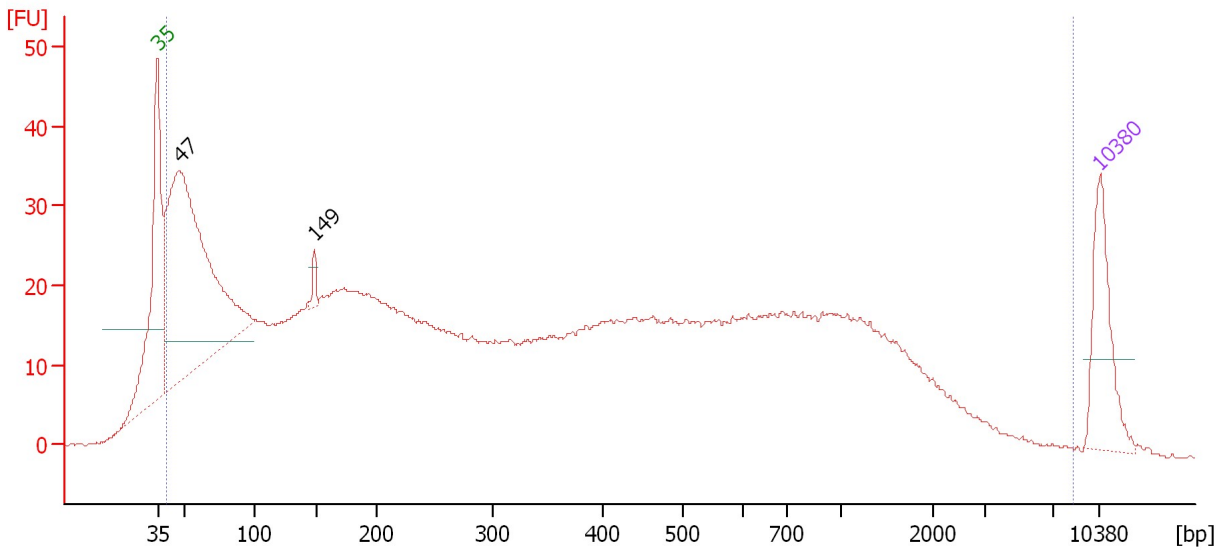
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
40	512	8,493	850.8	99	100.0	2,292.72	27,115.4	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
 Modified: 2/23/2015 4:21:29 PM

**Electropherogram Summary Continued ...**

MI soni (1:3) [ +0.5 cyc ]



**Overall Results for sample 3 : MI soni (1:3)**

Number of peaks found: 2                      Corr. Area 1: 1,424.1  
 Noise: 0.1

**Peak table for sample 3 : MI soni (1:3)**

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	47	649.03	20,882.9		44.64
3	149	13.16	134.2		54.62
4	10,380	75.00	10.9	Upper Marker	113.00

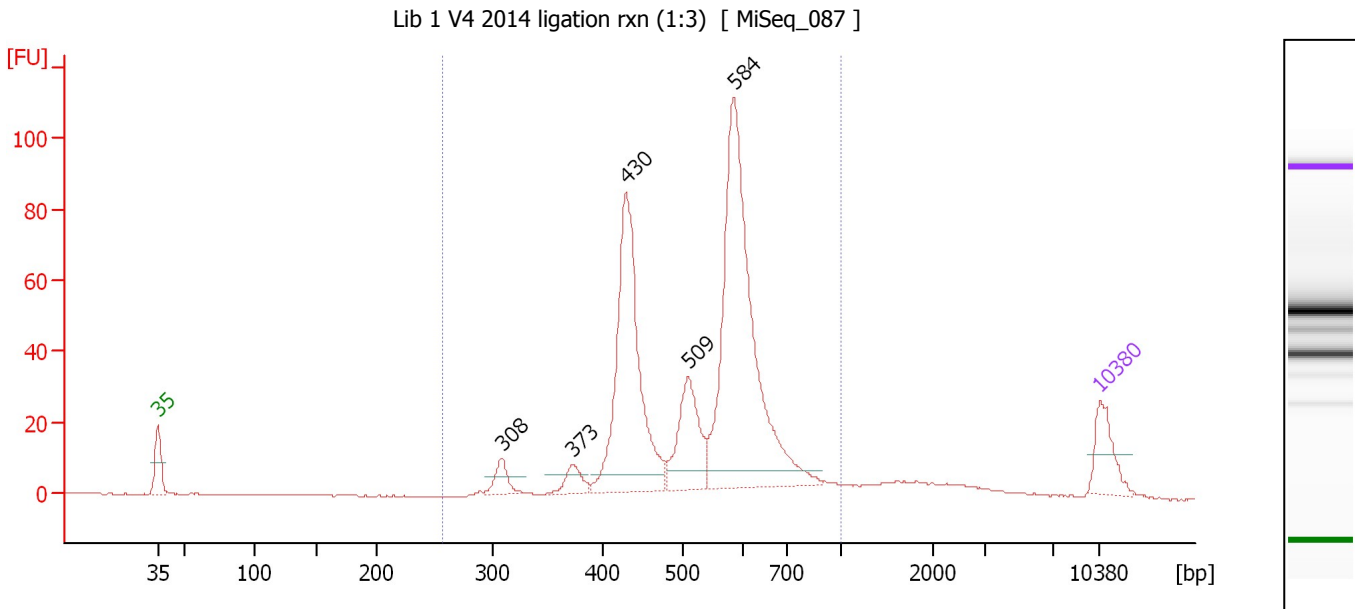
**Region table for sample 3 : MI soni (1:3)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
40	556	8,416	1,424.1	99	100.0	4,041.19	44,927.1	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
 Modified: 2/23/2015 4:21:29 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Lib 1 V4 2014 ligation rxn (1:3)**

Number of peaks found: 5                      Corr. Area 1: 660.2  
 Noise: 0.1

**Peak table for sample 4 : Lib 1 V4 2014 ligation rxn (1:3)**

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	308	53.42	262.7		68.57
3	373	47.52	192.9		73.84
4	430	604.22	2,130.6		77.80
5	509	197.94	588.9		82.44
6	584	861.84	2,235.5		85.83
7	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : Lib 1 V4 2014 ligation rxn (1:3)**

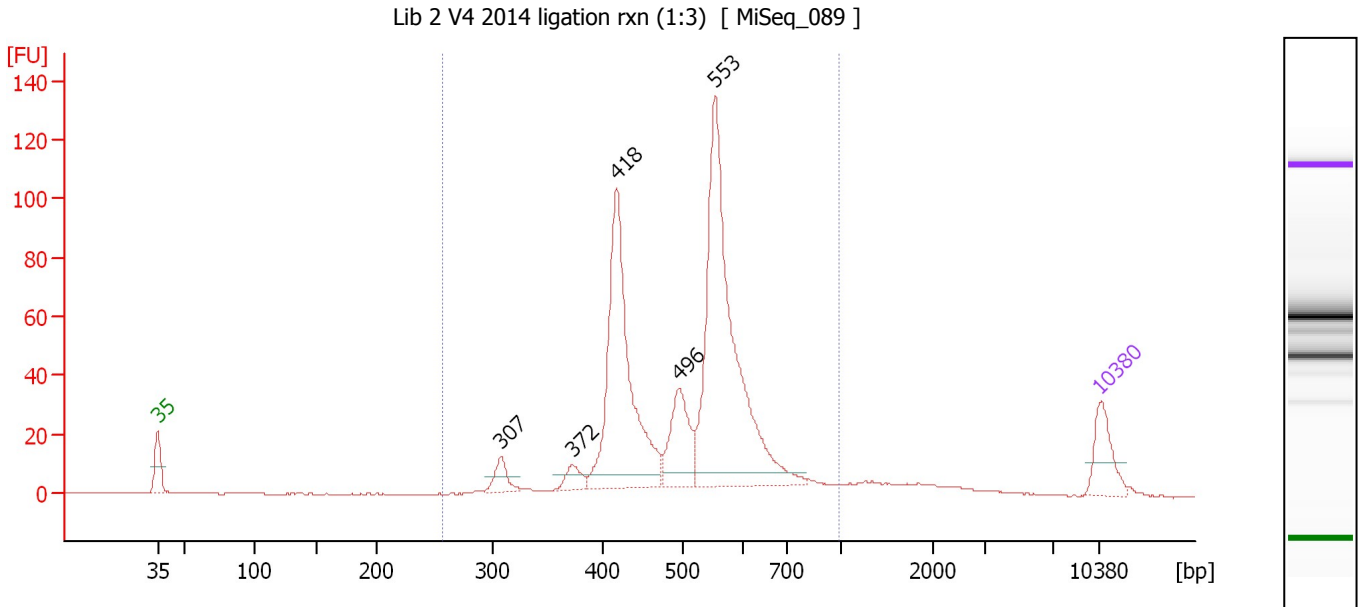
From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
257	537	1,000	660.2	92	20.3	1,937.13	5,795.1	Blue



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
 Modified: 2/23/2015 4:21:29 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Lib 2 V4 2014 ligation rxn (1:3)**

Number of peaks found: 5                      Corr. Area 1: 748.6  
 Noise: 0.1

**Peak table for sample 5 : Lib 2 V4 2014 ligation rxn (1:3)**

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	307	49.59	244.4		68.51
3	372	37.65	153.2		73.78
4	418	594.85	2,158.1		77.07
5	496	165.33	505.4		81.76
6	553	810.28	2,219.8		84.42
7	10,380	75.00	10.9	Upper Marker	113.00

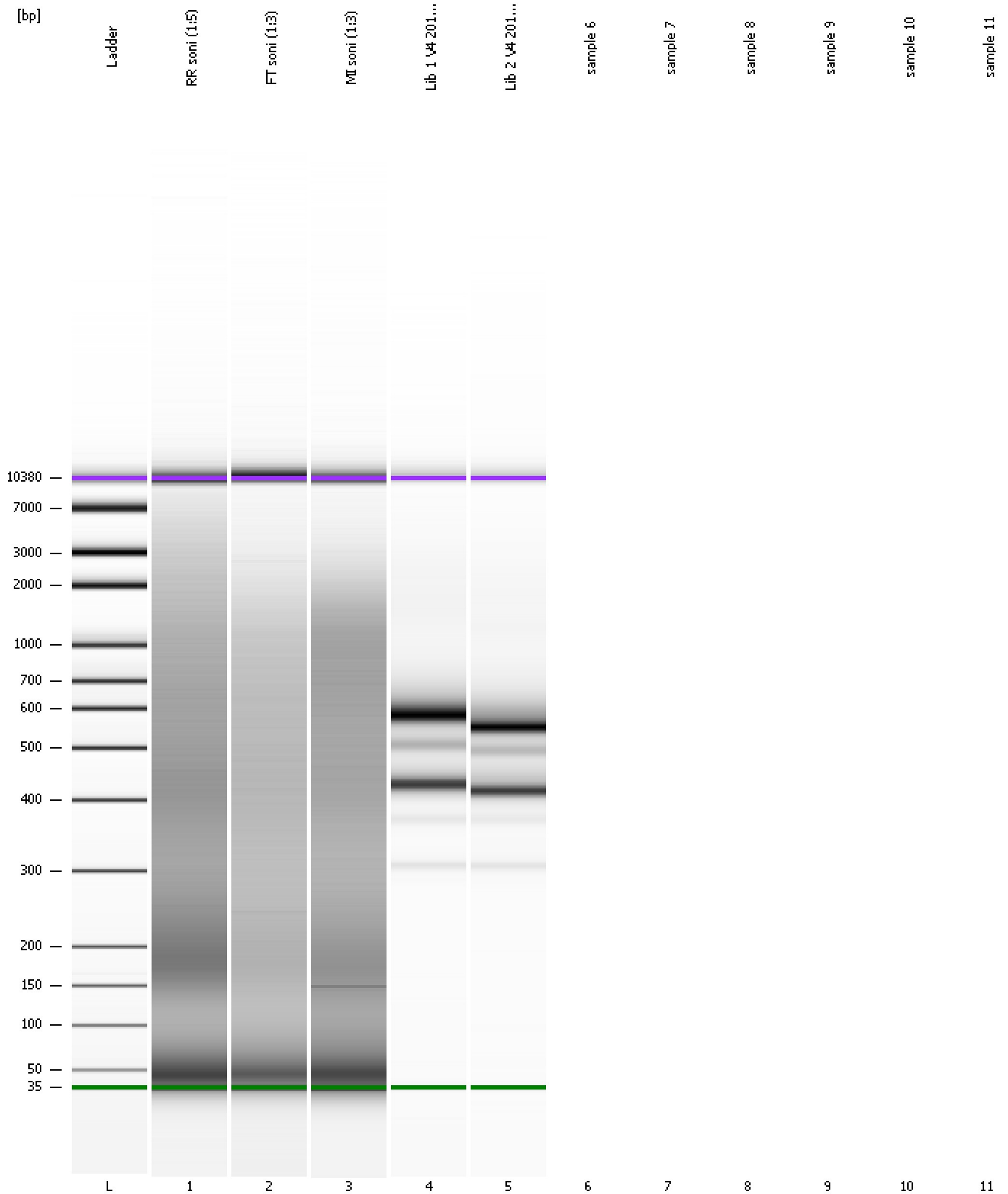
**Region table for sample 5 : Lib 2 V4 2014 ligation rxn (1:3)**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
257	514	980	748.6	92	20.0	1,871.87	5,826.3	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
Modified: 2/23/2015 4:21:29 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
Modified: 2/23/2015 4:21:29 PM

**Invalid Samples**

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

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\2015-02-23\2015-02-23\_005.xad

Created: 2/23/2015 3:53:29 PM  
 Modified: 2/23/2015 4:21:29 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 6)		Instrument	Run		2/23/2015 4:17:39 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-23\2015-02-23_005.xad)		Instrument	Run		2/23/2015 3:53:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/23/2015 3:53:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/23/2015 3:53:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/23/2015 3:53:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/23/2015 3:53:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/23/2015 3:53:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/23/2015 3:53:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1