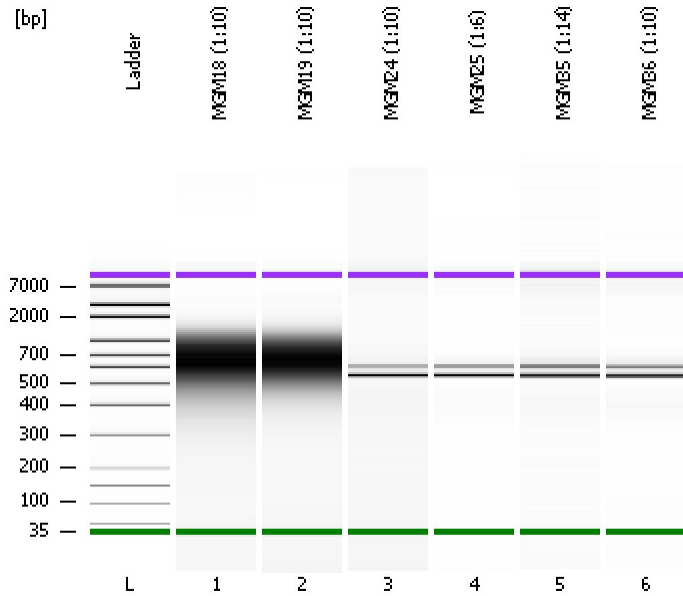


Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electrophoresis File Run Summary



Instrument Information:

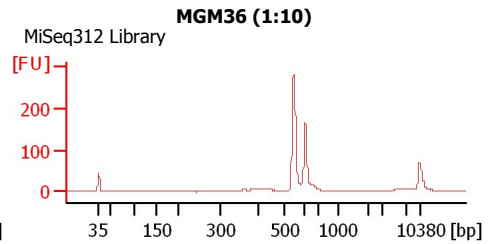
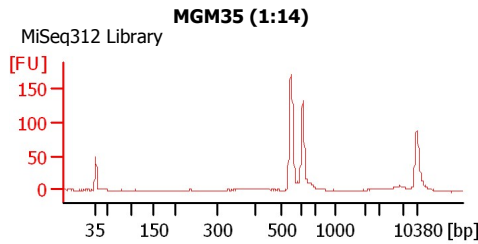
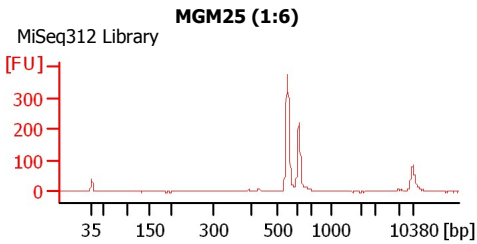
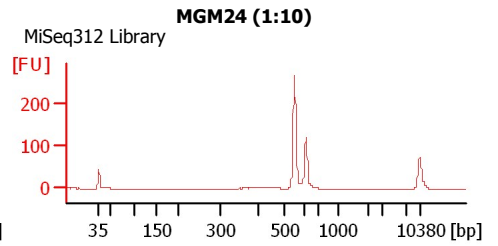
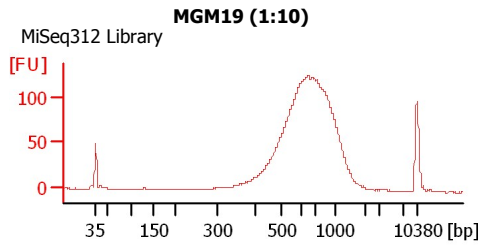
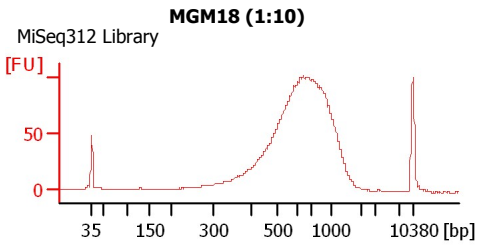
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MGM18 (1:10)	MiSeq312 Library	<input type="checkbox"/>	✓			
MGM19 (1:10)	MiSeq312 Library	<input type="checkbox"/>	✓			
MGM24 (1:10)	MiSeq312 Library	<input type="checkbox"/>	✓			
MGM25 (1:6)	MiSeq312 Library	<input type="checkbox"/>	✓			
MGM35 (1:14)	MiSeq312 Library	<input type="checkbox"/>	✓			
MGM36 (1:10)	MiSeq312 Library	<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
Modified: 6/6/2016 2:29:14 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

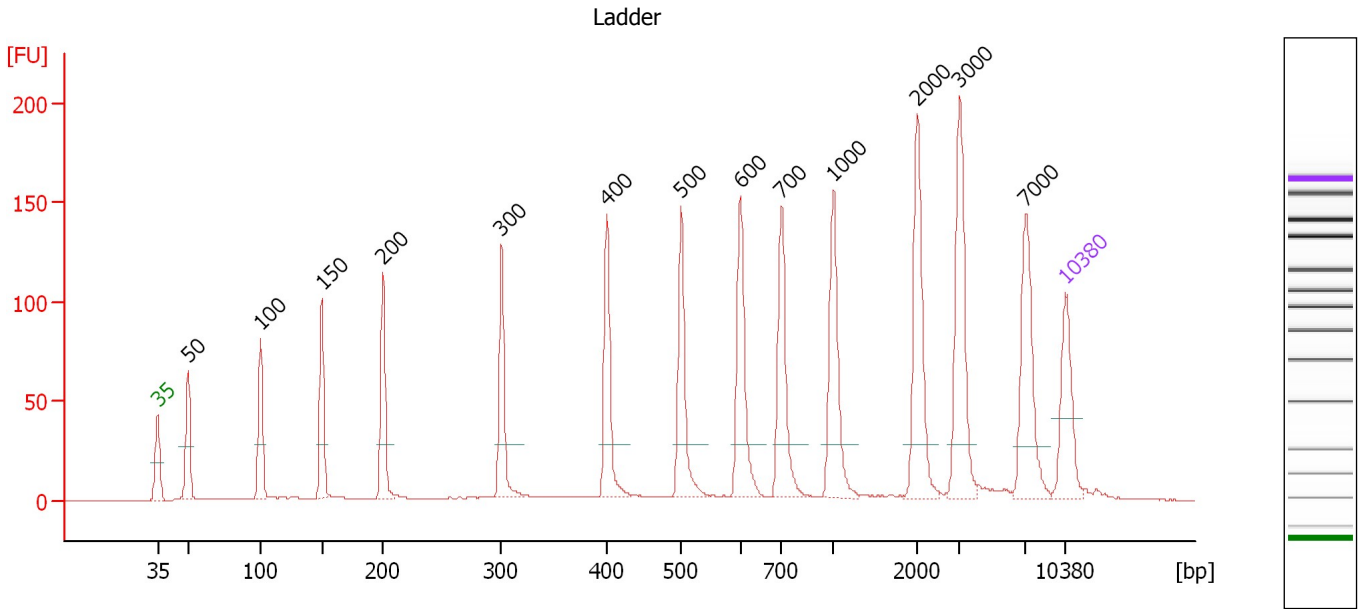
Ladder

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:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

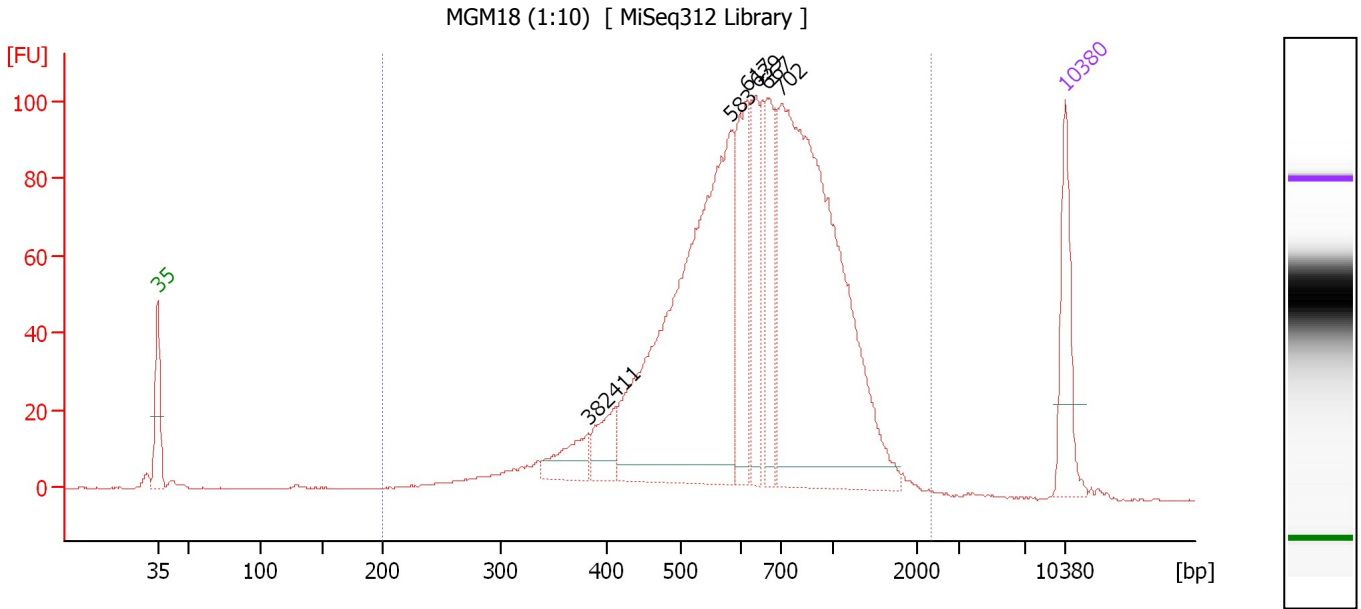
Peak table for Ladder

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	45.36
3	100	150.00	2,272.7	Ladder Peak	50.93
4	150	150.00	1,515.2	Ladder Peak	55.70
5	200	150.00	1,136.4	Ladder Peak	60.41
6	300	150.00	757.6	Ladder Peak	69.54
7	400	150.00	568.2	Ladder Peak	77.67
8	500	150.00	454.5	Ladder Peak	83.39
9	600	150.00	378.8	Ladder Peak	87.96
10	700	150.00	324.7	Ladder Peak	91.12
11	1,000	150.00	227.3	Ladder Peak	95.14
12	2,000	150.00	113.6	Ladder Peak	101.61
13	3,000	150.00	75.8	Ladder Peak	104.87
14	7,000	150.00	32.5	Ladder Peak	109.99
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MGM18 (1:10)

Number of peaks found: 7 Corr. Area 1: 1,716.4
 Noise: 0.2

Peak table for sample 1 : MGM18 (1:10)

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	382	52.15	206.8		76.22
3	411	52.42	193.2		78.31
4	583	664.15	1,726.9		87.17
5	617	133.81	328.6		88.49
6	639	90.40	214.2		89.21
7	667	103.94	236.2		90.07
8	702	740.00	1,597.9		91.14
9	10,380	75.00	10.9	Upper Marker	113.00

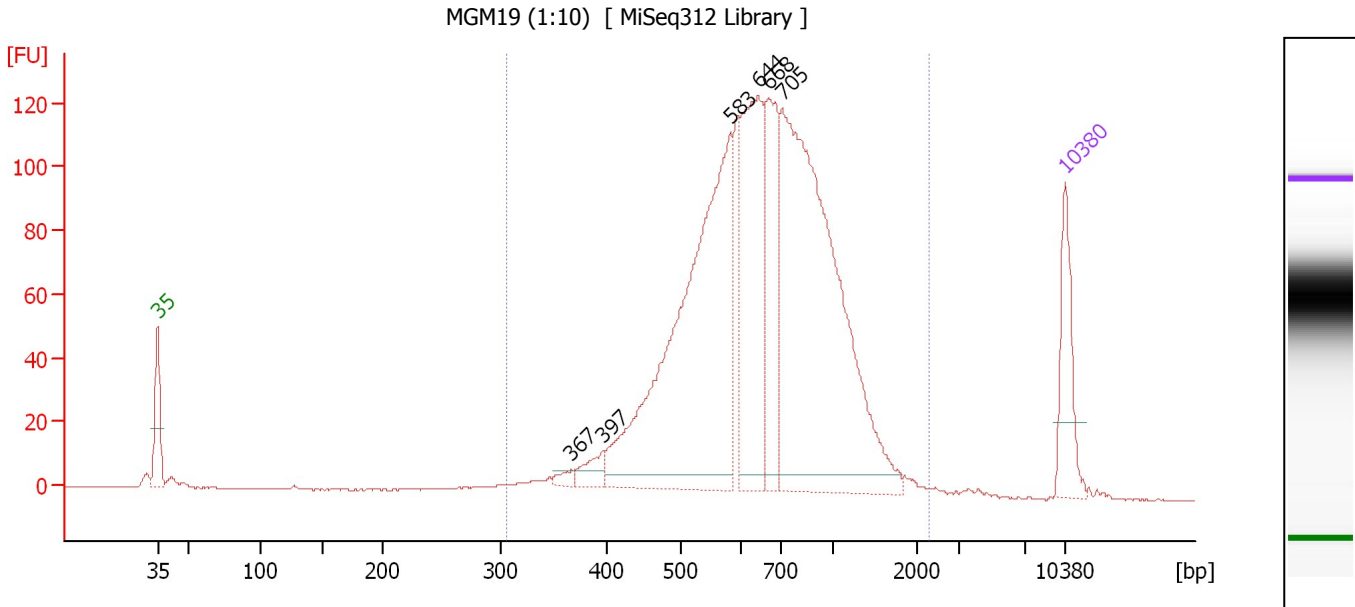
Region table for sample 1 : MGM18 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	2,316	698	1,716.4	5,464.1	2,120.40	98	38.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MGM19 (1:10)

Number of peaks found: 6 Corr. Area 1: 1,800.3
 Noise: 0.1

Peak table for sample 2 : MGM19 (1:10)

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	367	12.26	50.7		74.95
3	397	29.07	111.0		77.41
4	583	656.92	1,706.8		87.19
5	644	290.47	683.7		89.34
6	668	182.19	413.2		90.11
7	705	762.61	1,639.5		91.19
8	10,380	75.00	10.9	Upper Marker	113.00

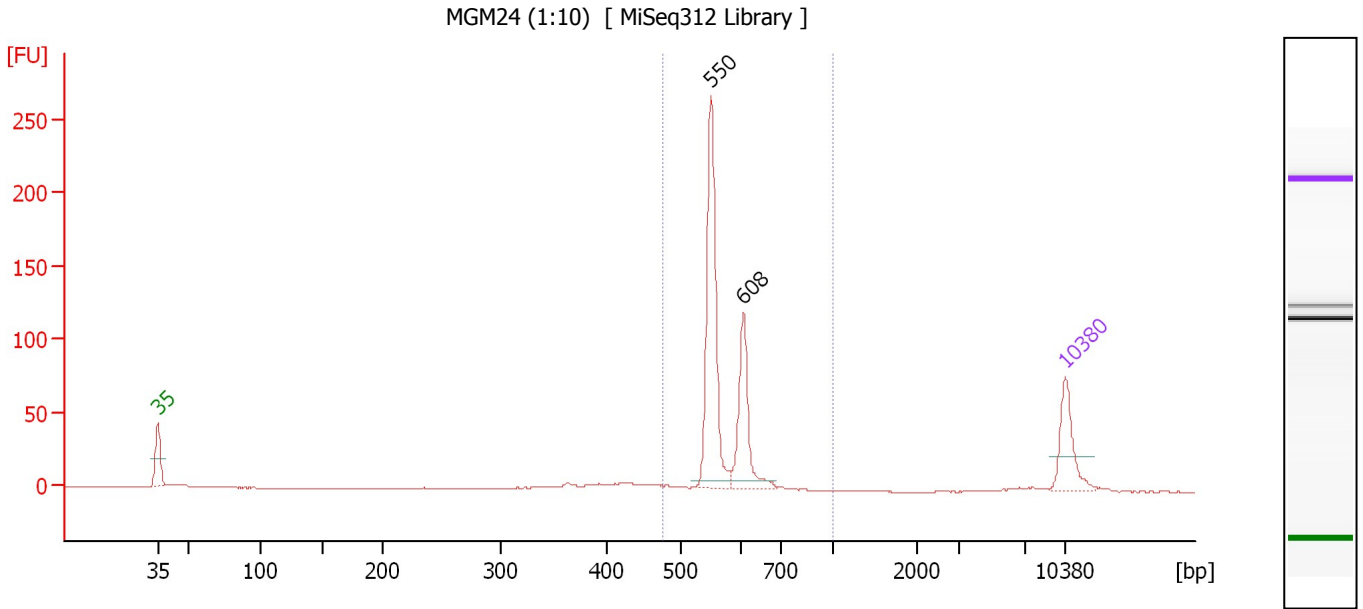
Region table for sample 2 : MGM19 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
305	2,266	717	1,800.3	4,894.2	2,042.88	99	35.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MGM24 (1:10)

Number of peaks found: 2 Corr. Area 1: 375.6
 Noise: 0.2

Peak table for sample 3 : MGM24 (1:10)

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	550	325.94	897.7		85.68
3	608	145.89	363.5		88.22
4	10,380	75.00	10.9	Upper Marker	113.00

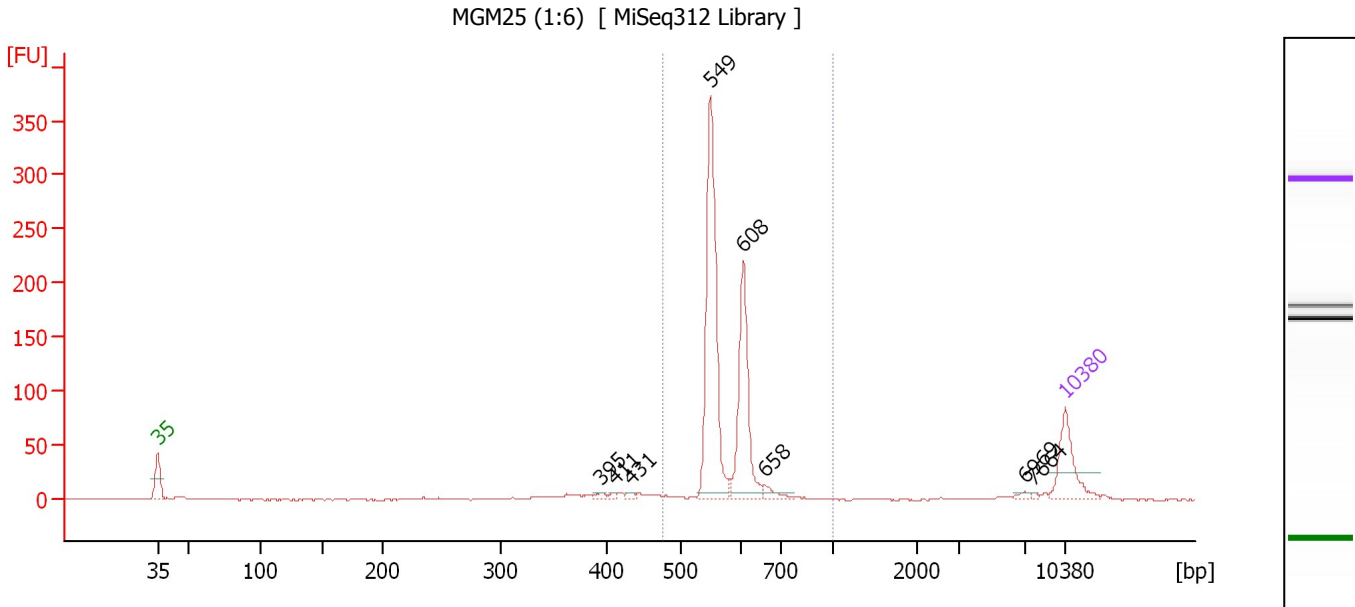
Region table for sample 3 : MGM24 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
474	1,000	571	375.6	1,256.1	471.75	93	5.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MGM25 (1:6)

Number of peaks found: 8 Corr. Area 1: 607.1
 Noise: 0.5

Peak table for sample 4 : MGM25 (1:6)

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	395	7.54	29.0		77.24
3	411	5.12	18.9		78.29
4	431	6.60	23.2		79.45
5	549	409.41	1,129.0		85.65
6	608	212.24	528.5		88.23
7	658	16.68	38.4		89.81
8	6,969	5.17	1.1		109.95
9	7,664	2.66	0.5		110.58
10	10,380	75.00	10.9	Upper Marker	113.00

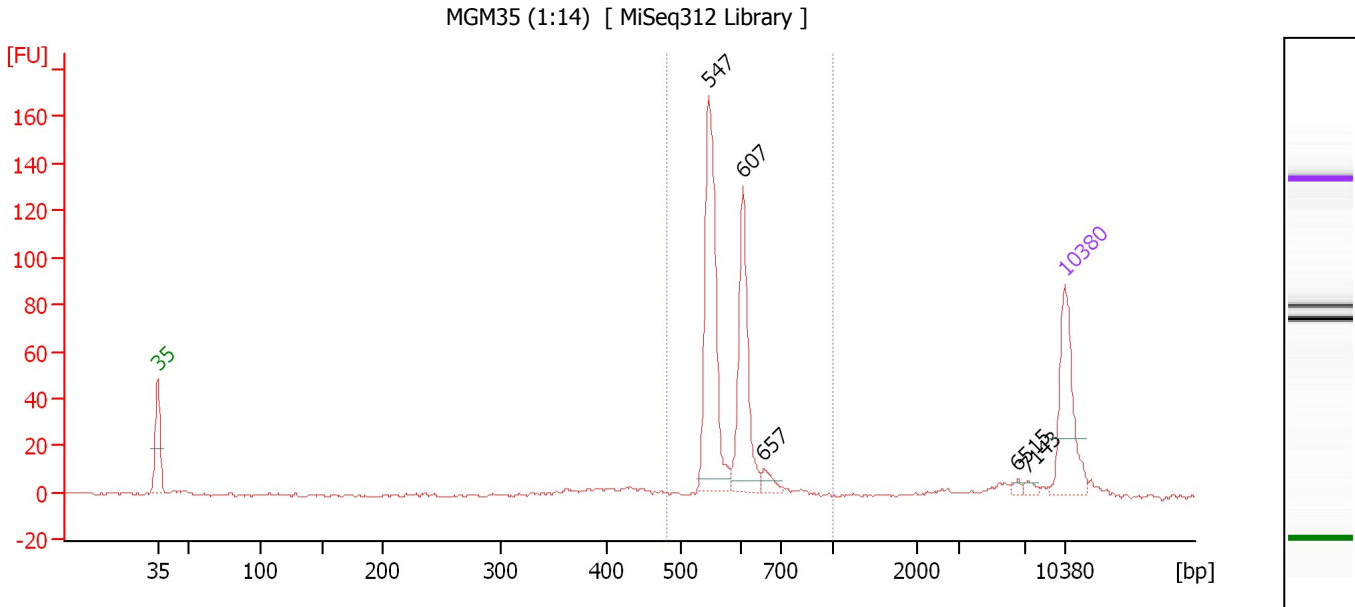
Region table for sample 4 : MGM25 (1:6)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
475	1,000	576	607.1	1,732.9	655.92	87	6.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MGM35 (1:14)

Number of peaks found: 5 Corr. Area 1: 343.1
 Noise: 0.6

Peak table for sample 5 : MGM35 (1:14)

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	547	203.86	564.3		85.56
3	607	124.00	309.7		88.17
4	657	11.94	27.5		89.77
5	6,515	4.00	0.9		109.37
6	7,143	4.49	1.0		110.12
7	10,380	75.00	10.9	Upper Marker	113.00

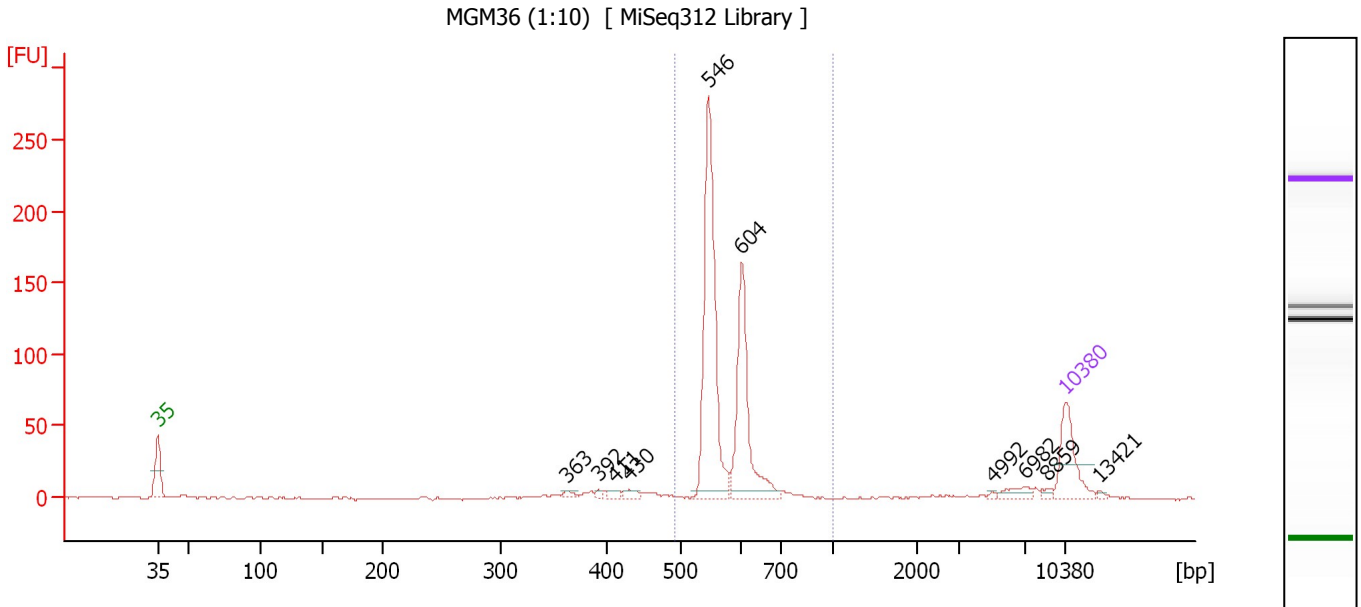
Region table for sample 5 : MGM35 (1:14)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
480	1,000	583	343.1	958.3	366.24	78	8.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
 Modified: 6/6/2016 2:29:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MGM36 (1:10)

Number of peaks found: 10 Corr. Area 1: 507.1
 Noise: 0.6

Peak table for sample 6 : MGM36 (1:10)

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	363	8.61	36.0		74.64
3	392	6.05	23.4		77.02
4	411	8.69	32.0		78.33
5	430	12.00	42.2		79.41
6	546	403.67	1,121.0		85.48
7	604	227.32	570.5		88.08
8	4,992	2.74	0.8		107.42
9	6,982	17.54	3.8		109.97
10	8,859	5.04	0.9		111.65
11	10,380	75.00	10.9	Upper Marker	113.00
12	13,421	0.00	0.0		115.71

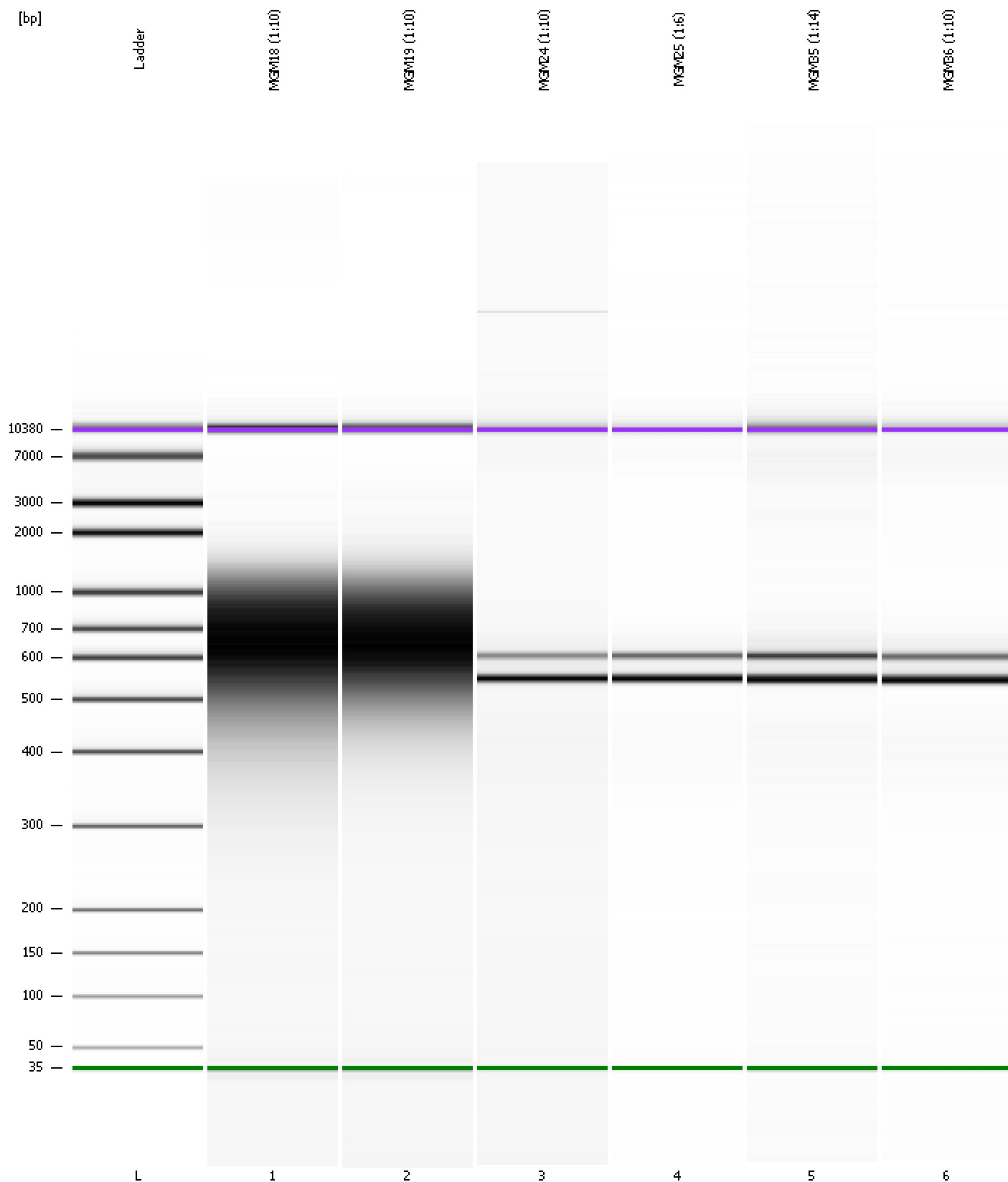
Region table for sample 6 : MGM36 (1:10)

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
491	1,000	578	507.1	1,712.5	649.03	79	8.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad

Created: 6/6/2016 1:50:31 PM
Modified: 6/6/2016 2:29:14 PM

Gel Image



Assay Class: High Sensitivity DNA Assay Created: 6/6/2016 1:50:31 PM
 Data Path: C:\...-06\2016-06-06_005_MiSeq312_Libraries_18-19-24-25-35-36.xad Modified: 6/6/2016 2:29:14 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		6/6/2016 2:23:13 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\2016-06-06\2016-06-06_005.xad)		Instrument	Run		6/6/2016 1:50:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/6/2016 1:50:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/6/2016 1:50:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/6/2016 1:50:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/6/2016 1:50:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/6/2016 1:50:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/6/2016 1:50:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1