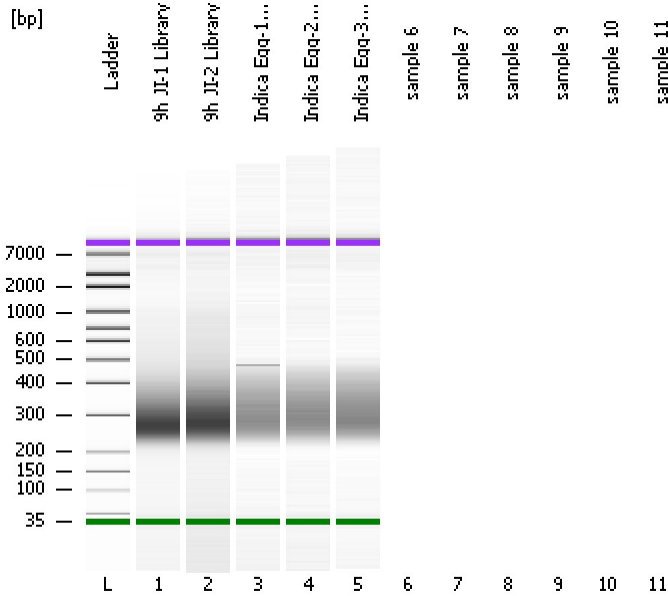


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
Modified: 12/7/2015 12:48:27 PM

Electrophoresis File Run Summary



Instrument Information:

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

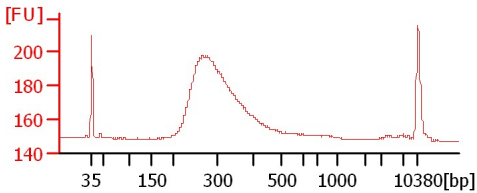
Assay Information:

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

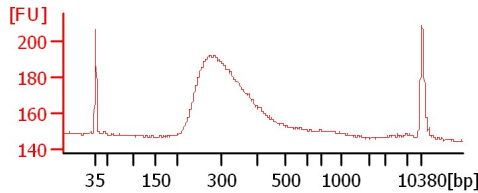
Chip Information:

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

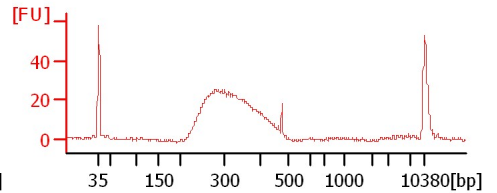
9h JI-1 Library



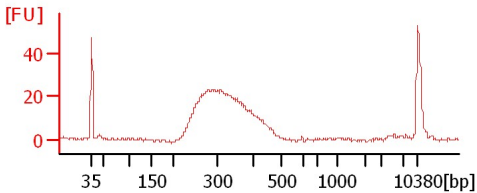
9h JI-2 Library



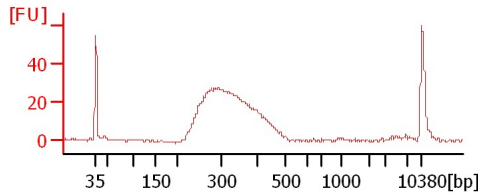
Indica Egg-1 Library



Indica Egg-2 Library



Indica Egg-3 Library



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
 Modified: 12/7/2015 12:48:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
9h JI-1 Library		<input type="checkbox"/>	✓			
9h JI-2 Library		<input type="checkbox"/>	✓			
Indica Egg-1 Library		<input type="checkbox"/>	✓			
Indica Egg-2 Library		<input type="checkbox"/>	✓			
Indica Egg-3 Library		<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\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
Modified: 12/7/2015 12:48:27 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

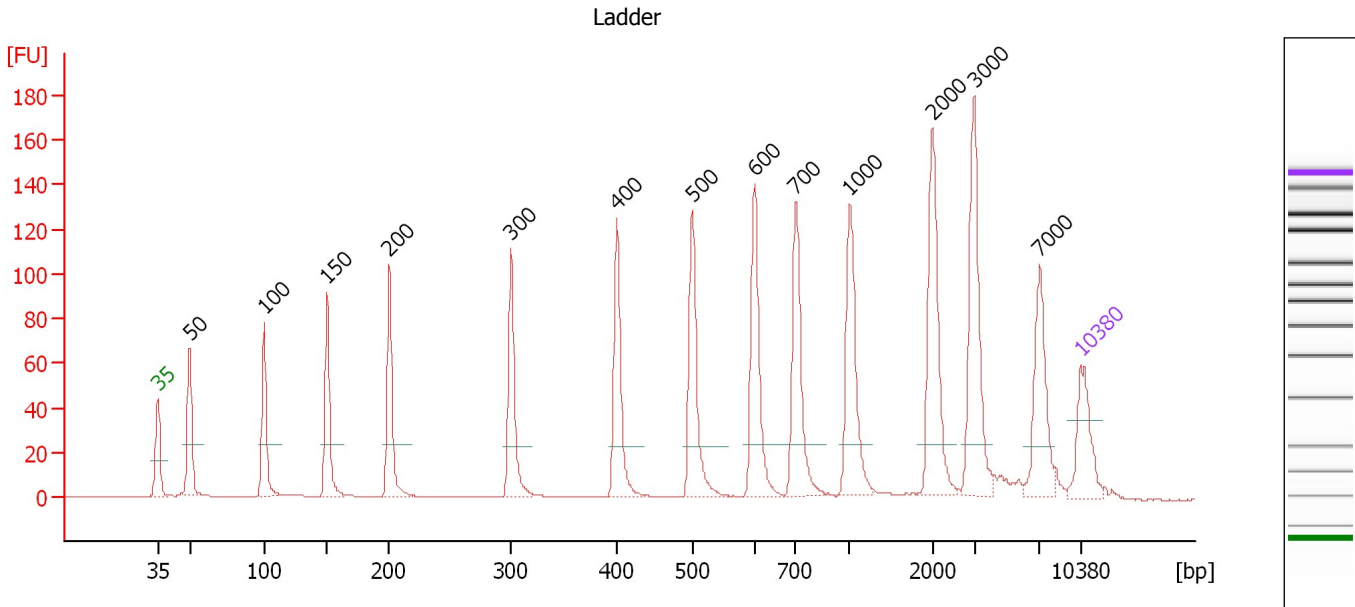
Ladder

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\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

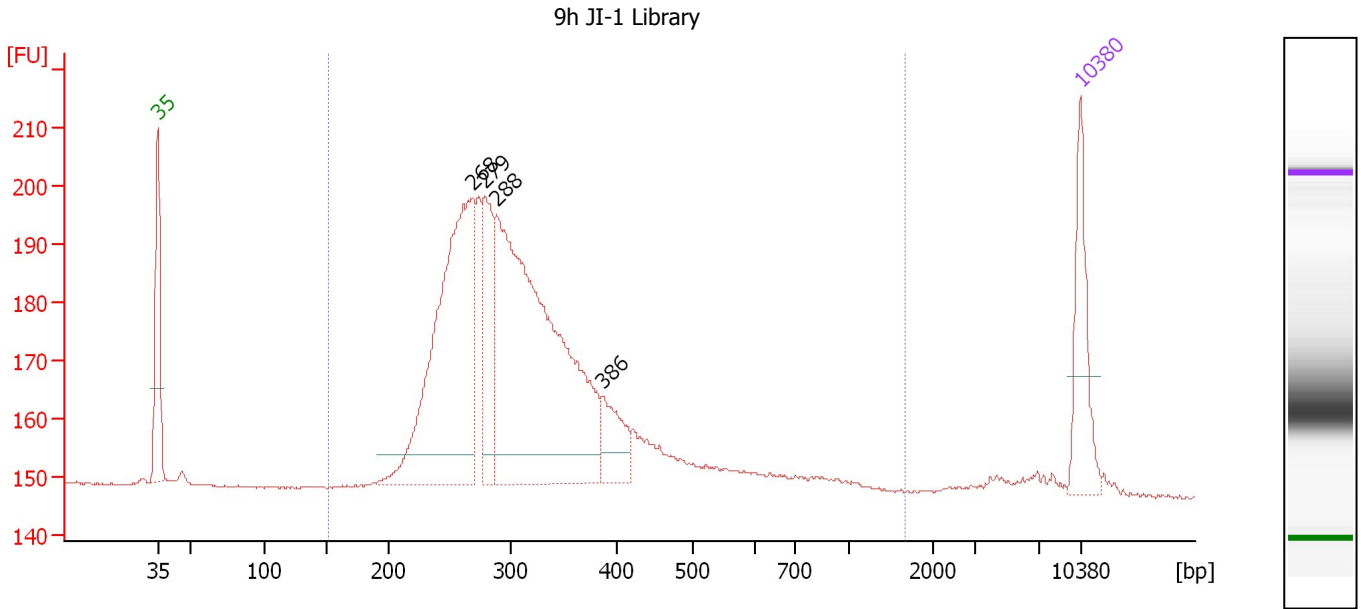
Peak table for Ladder

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	45.45
3	100	150.00	2,272.7	Ladder Peak	51.09
4	150	150.00	1,515.2	Ladder Peak	55.89
5	200	150.00	1,136.4	Ladder Peak	60.59
6	300	150.00	757.6	Ladder Peak	69.81
7	400	150.00	568.2	Ladder Peak	77.86
8	500	150.00	454.5	Ladder Peak	83.55
9	600	150.00	378.8	Ladder Peak	88.30
10	700	150.00	324.7	Ladder Peak	91.41
11	1,000	150.00	227.3	Ladder Peak	95.50
12	2,000	150.00	113.6	Ladder Peak	101.76
13	3,000	150.00	75.8	Ladder Peak	104.96
14	7,000	150.00	32.5	Ladder Peak	109.90
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : 9h JI-1 Library

Number of peaks found: 4 Corr. Area 1: 848.1
 Noise: 0.1

Peak table for sample 1 : 9h JI-1 Library

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	268	513.68	2,903.4		66.87
3	279	137.73	748.4		67.86
4	288	695.78	3,659.2		68.72
5	386	61.66	241.7		76.77
6	10,380	75.00	10.9	Upper Marker	113.00

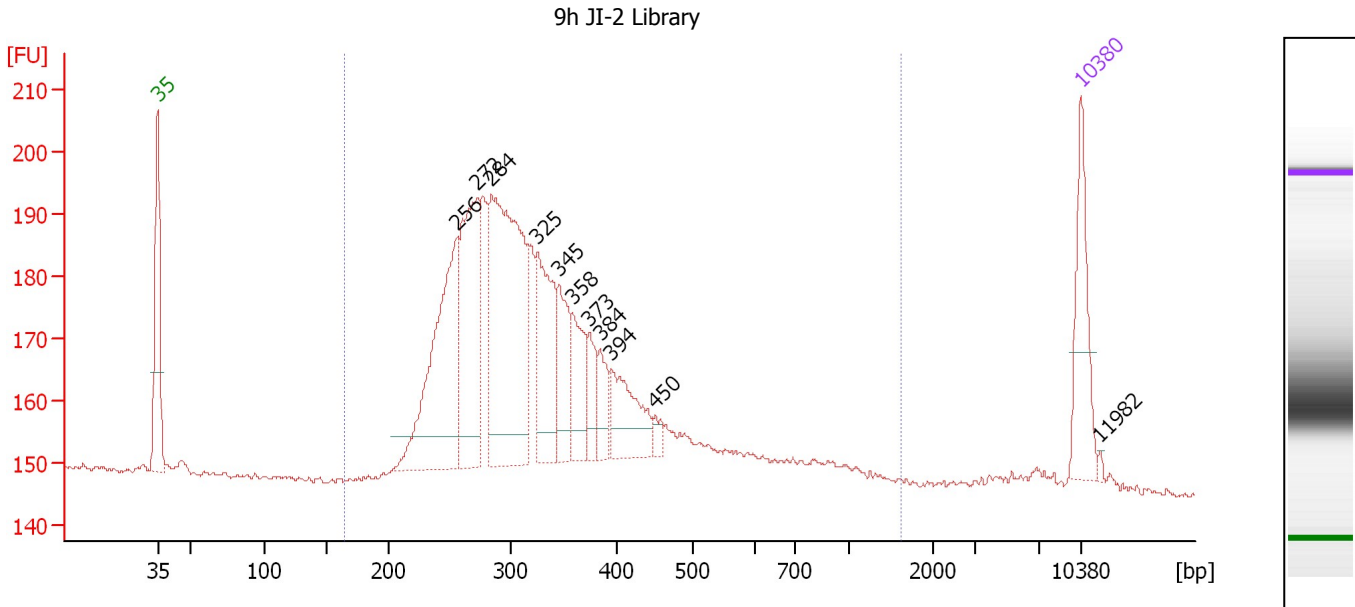
Region table for sample 1 : 9h JI-1 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
151	1,677	337	848.1	8,349.5	1,662.91	96	40.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
 Modified: 12/7/2015 12:48:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 9h JI-2 Library

Number of peaks found: 11 Corr. Area 1: 848.9
 Noise: 0.5

Peak table for sample 2 : 9h JI-2 Library

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	256	278.15	1,648.0		65.73
3	272	233.11	1,297.6		67.25
4	284	403.42	2,152.0		68.34
5	325	144.47	674.0		71.81
6	345	78.14	343.4		73.42
7	358	68.96	291.6		74.51
8	373	38.88	157.9		75.70
9	384	37.96	149.9		76.55
10	394	84.56	324.9		77.41
11	450	12.15	40.9		80.73
12	10,380	75.00	10.9	Upper Marker	113.00
13	11,982	0.00	0.0		114.47

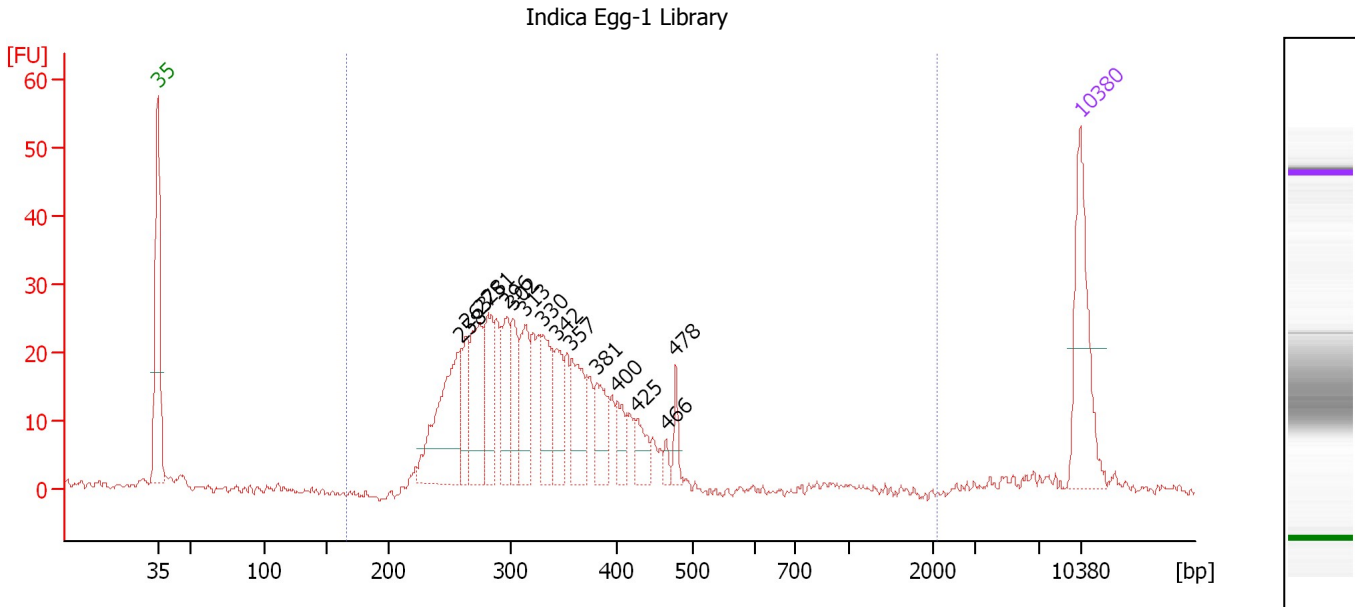
Region table for sample 2 : 9h JI-2 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
164	1,633	356	848.9	8,839.4	1,831.22	97	42.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
 Modified: 12/7/2015 12:48:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Indica Egg-1 Library

Number of peaks found: 15 Corr. Area 1: 434.5
 Noise: 0.6

Peak table for sample 3 : Indica Egg-1 Library

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	132.10	776.0		65.93
3	263	44.48	256.2		66.41
4	275	83.20	459.2		67.47
5	281	61.00	328.6		68.09
6	296	50.50	258.2		69.48
7	302	48.22	241.7		70.00
8	313	55.38	268.0		70.87
9	330	55.55	255.3		72.21
10	342	44.79	198.3		73.21
11	357	56.58	240.0		74.41
12	381	40.09	159.4		76.32
13	400	22.83	86.5		77.86
14	425	22.91	81.6		79.29
15	466	7.52	24.5		81.59
16	478	15.40	48.8		82.31
17	10,380	75.00	10.9	Upper Marker	113.00

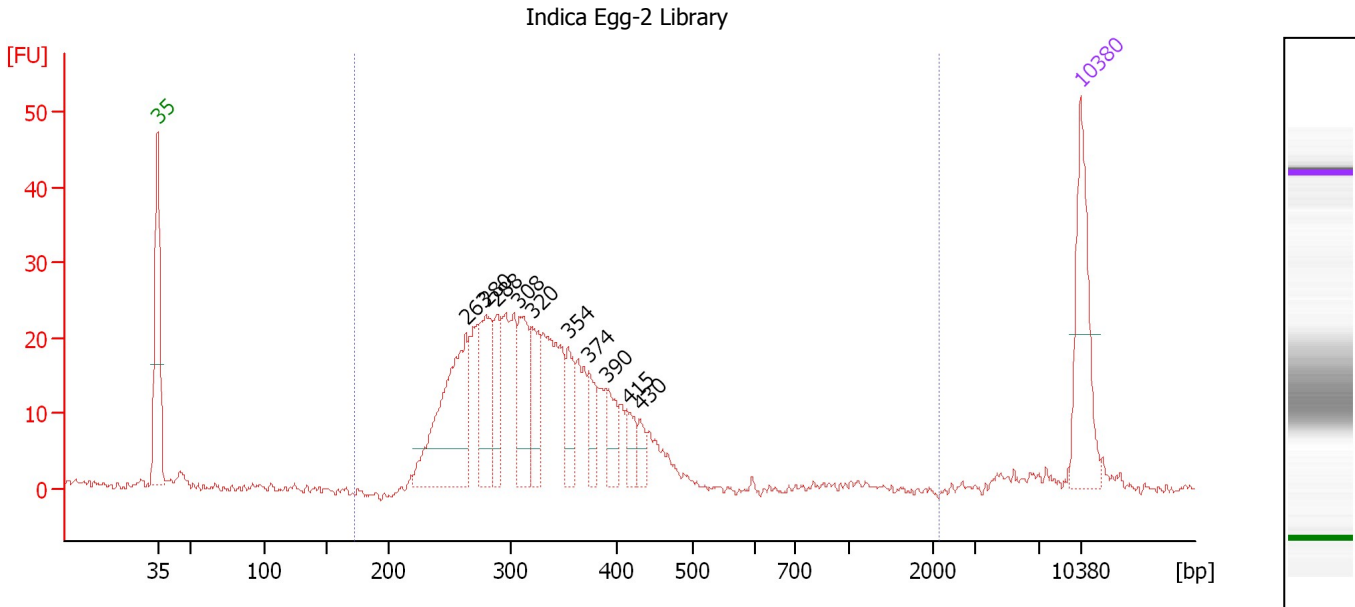
Region table for sample 3 : Indica Egg-1 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
166	2,135	326	434.5	4,527.6	930.20	98	18.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
 Modified: 12/7/2015 12:48:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Indica Egg-2 Library

Number of peaks found: 10 Corr. Area 1: 396.9
 Noise: 0.6

Peak table for sample 4 : Indica Egg-2 Library

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	263	179.23	1,032.1		66.41
3	280	85.07	461.1		67.93
4	288	50.01	263.1		68.71
5	308	68.04	334.7		70.46
6	320	46.16	218.8		71.39
7	354	40.90	175.3		74.12
8	374	29.90	121.3		75.73
9	390	32.34	125.7		77.05
10	415	17.09	62.4		78.71
11	430	14.99	52.8		79.59
12	10,380	75.00	10.9	Upper Marker	113.00

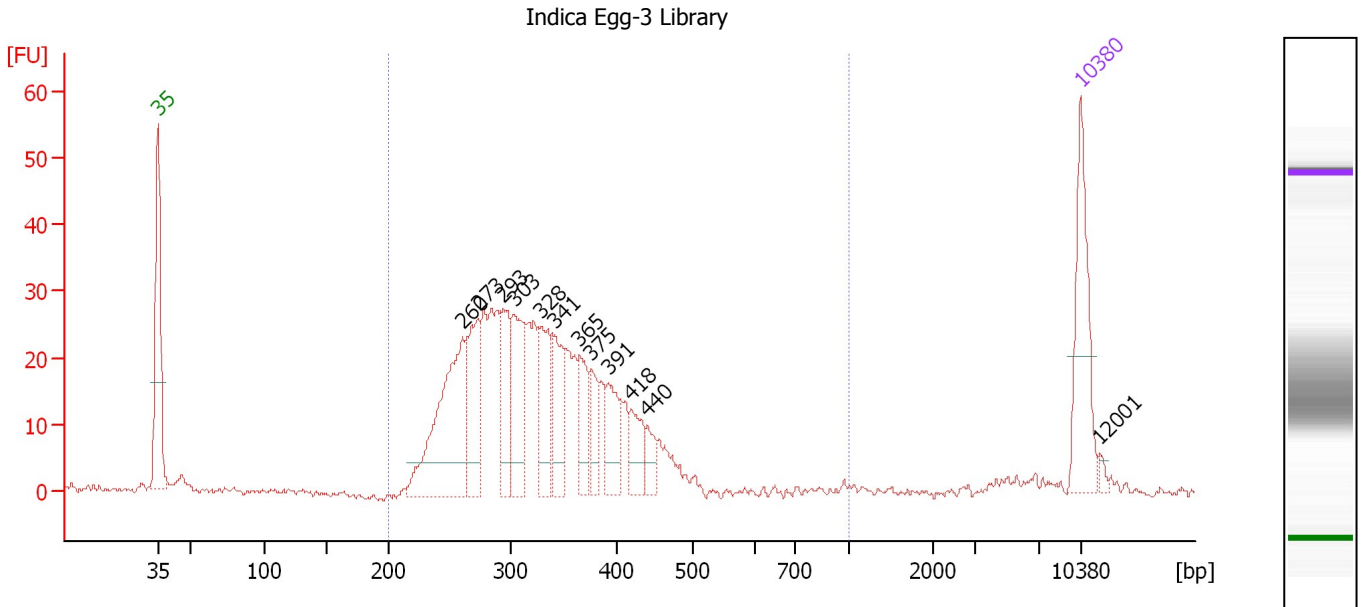
Region table for sample 4 : Indica Egg-2 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
171	2,162	325	396.9	4,488.1	921.97	97	19.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
 Modified: 12/7/2015 12:48:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Indica Egg-3 Library

Number of peaks found: 12 Corr. Area 1: 478.5
 Noise: 0.5

Peak table for sample 5 : Indica Egg-3 Library

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	260	196.40	1,144.1		66.13
3	273	88.54	491.4		67.33
4	293	65.16	337.0		69.16
5	303	81.89	409.5		70.06
6	328	72.10	333.4		72.04
7	341	61.44	273.3		73.09
8	365	40.26	167.2		75.02
9	375	30.64	123.7		75.87
10	391	47.66	184.6		77.16
11	418	34.24	124.1		78.89
12	440	19.37	66.7		80.13
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,001	0.00	0.0		114.49

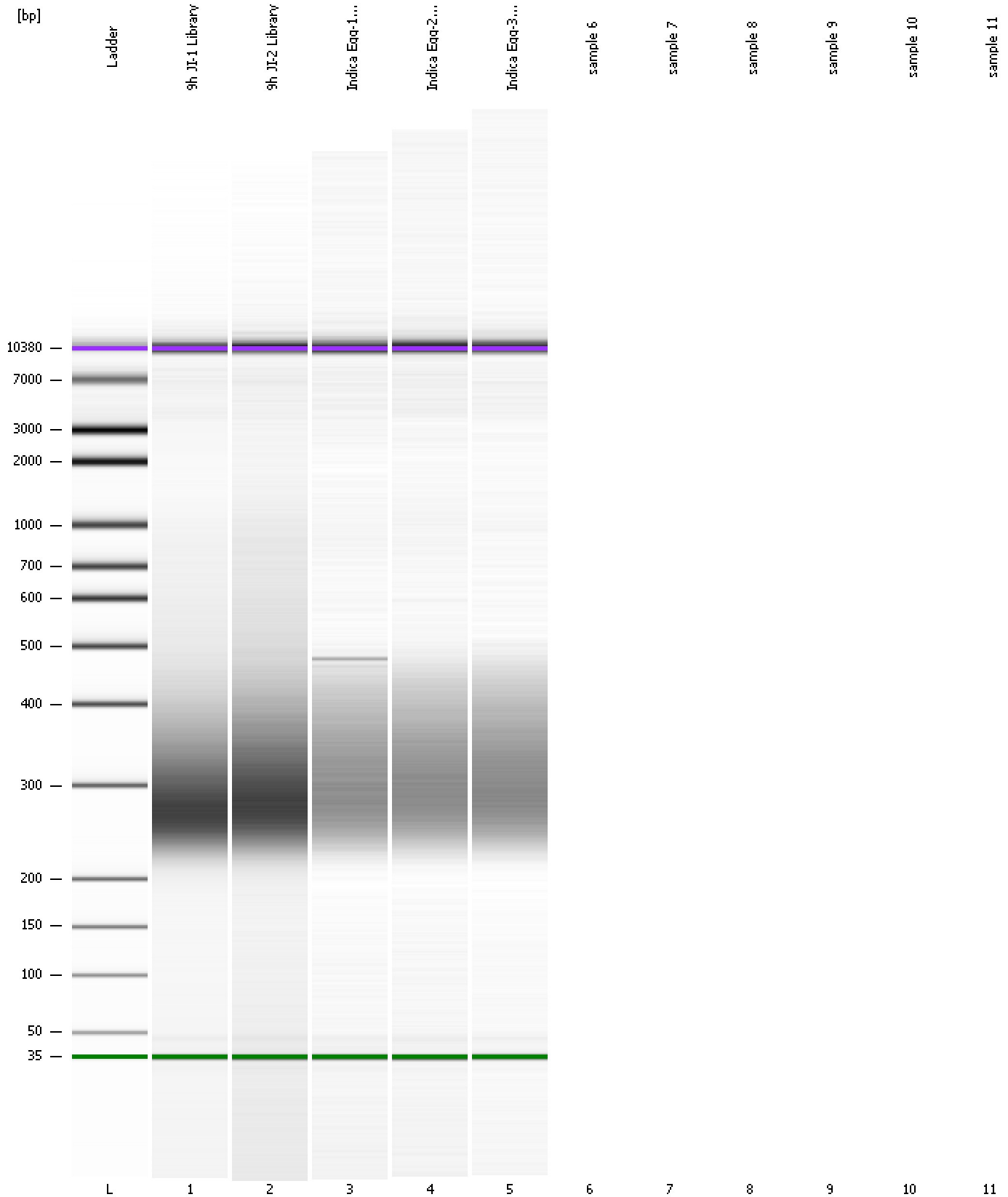
Region table for sample 5 : Indica Egg-3 Library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	327	478.5	4,964.7	1,024.84	97	19.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
Modified: 12/7/2015 12:48:27 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
Modified: 12/7/2015 12:48:27 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\2015-12-07\2015-12-07_002.xad

Created: 12/7/2015 12:23:54 PM
 Modified: 12/7/2015 12:48:27 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		12/7/2015 12:47:58 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-07\2015-12-07_002.xad)		Instrument	Run		12/7/2015 12:23:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/7/2015 12:23:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/7/2015 12:23:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/7/2015 12:23:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/7/2015 12:23:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/7/2015 12:23:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/7/2015 12:23:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1