Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

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

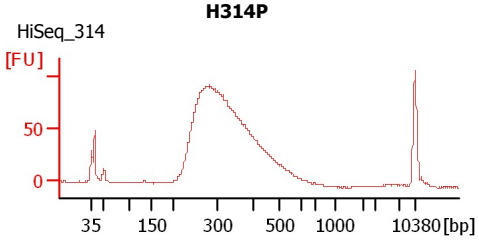
Chip Information:

Chip Lot #:

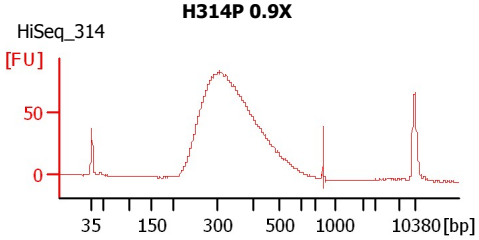
Reagent Kit Lot #:

Chip Comments:

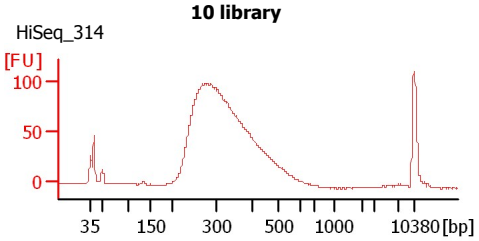
H314P



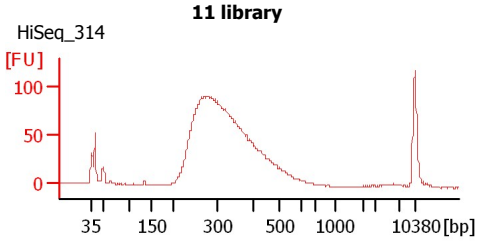
H314P 0.9X



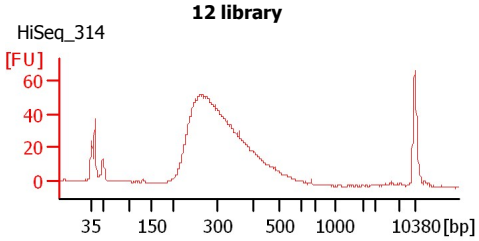
10 library



11 library



12 library



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
H314P	HiSeq_314	☐	✔			
H314P 0.9X	HiSeq_314	☐	✔			
10 library	HiSeq_314	☐	✔			
11 library	HiSeq_314	☐	✔			
12 library	HiSeq_314	☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

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

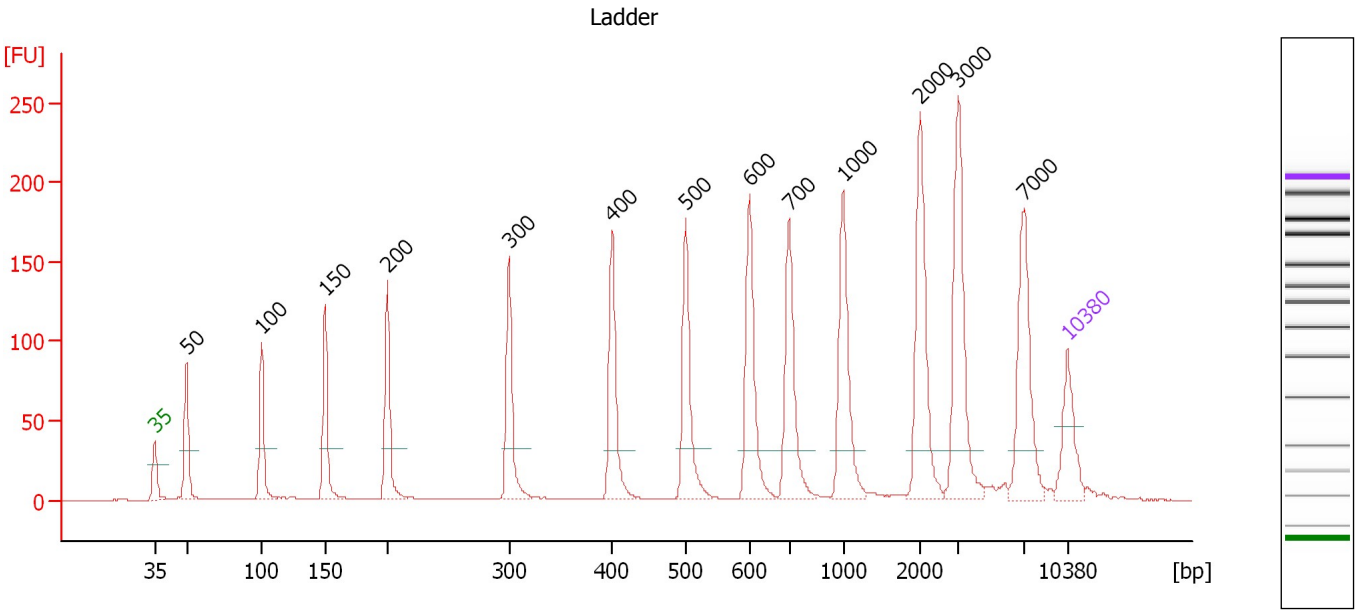
Ladder

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:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

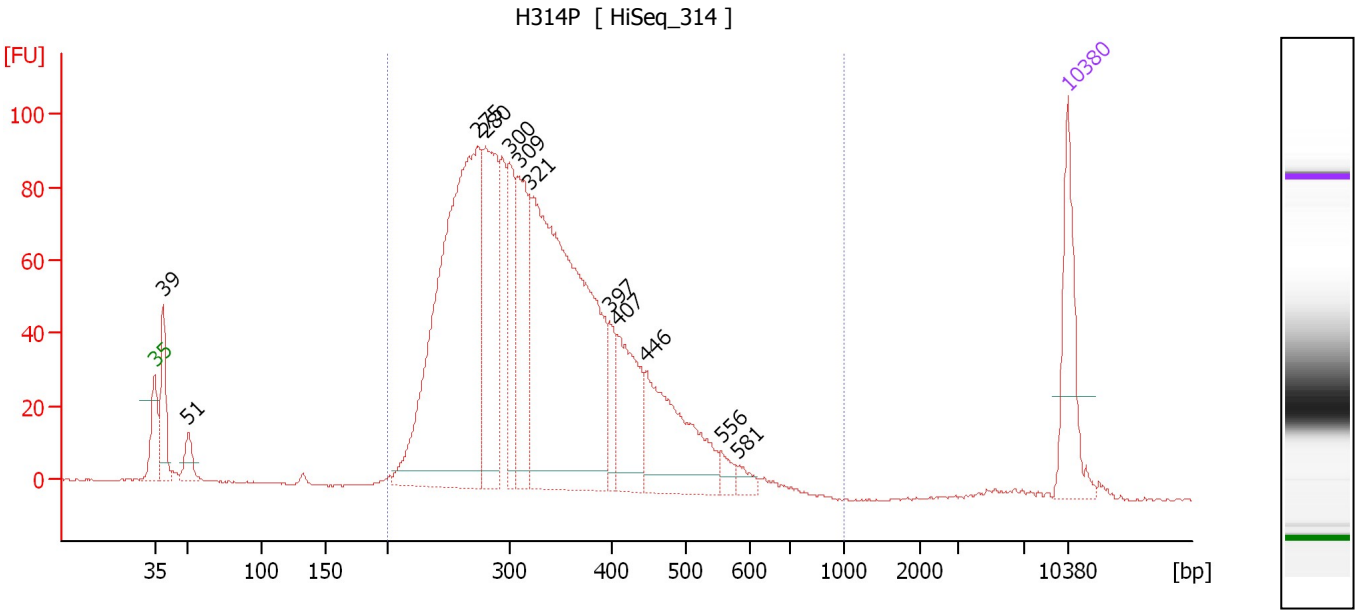
Peak table for Ladder

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	51.20
4		150	150.00	1,515.2	Ladder Peak	56.06
5		200	150.00	1,136.4	Ladder Peak	60.83
6		300	150.00	757.6	Ladder Peak	70.20
7		400	150.00	568.2	Ladder Peak	78.09
8		500	150.00	454.5	Ladder Peak	83.71
9		600	150.00	378.8	Ladder Peak	88.61
10		700	150.00	324.7	Ladder Peak	91.64
11		1,000	150.00	227.3	Ladder Peak	95.79
12		2,000	150.00	113.6	Ladder Peak	101.72
13		3,000	150.00	75.8	Ladder Peak	104.62
14		7,000	150.00	32.5	Ladder Peak	109.66
15		10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : H314P

Number of peaks found:	12	Corr. Area 1:	1,900.5
Noise:	0.2		

Peak table for sample 5 : H314P

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	39	86.81	3,357.1		43.68
3	51	31.76	939.1		45.60
4	275	654.87	3,613.1		67.82
5	280	214.70	1,159.9		68.37
6	300	111.06	560.0		70.23
7	309	149.45	732.5		70.92
8	321	631.82	2,985.3		71.83
9	397	39.97	152.6		77.84
10	407	109.12	406.3		78.48
11	446	164.96	560.6		80.66
12	556	14.61	39.8		86.45
13	581	11.95	31.2		87.68
14	10,380	75.00	10.9	Upper Marker	113.00

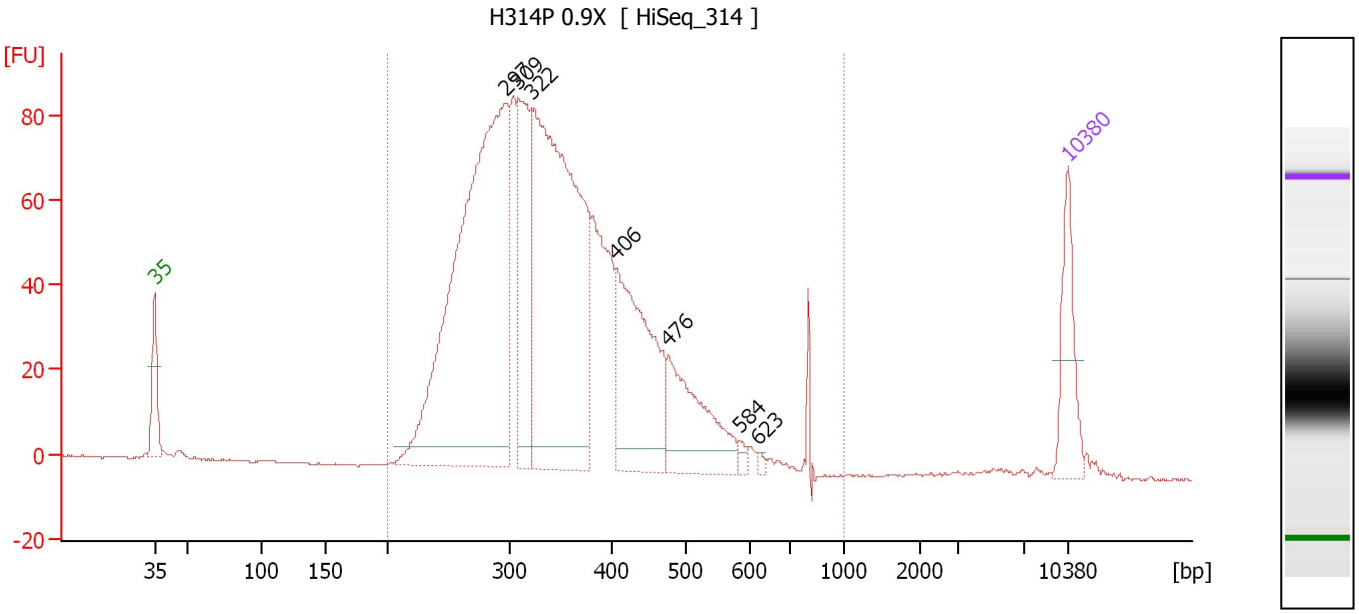
Region table for sample 5 : H314P

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	335	1,900.5	10,498.2	2,163.89	95	24.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : H314P 0.9X

Number of peaks found:	7	Corr. Area 1:	1,701.7
Noise:	0.2		

Peak table for sample 6 : H314P 0.9X

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	297	976.04	4,987.0		69.87
3	309	224.29	1,100.6		70.89
4	322	791.55	3,728.8		71.91
5	406	285.54	1,066.1		78.42
6	476	168.81	536.8		82.39
7	584	8.12	21.1		87.84
8	623	4.62	11.2		89.31
9	10,380	75.00	10.9	Upper Marker	113.00

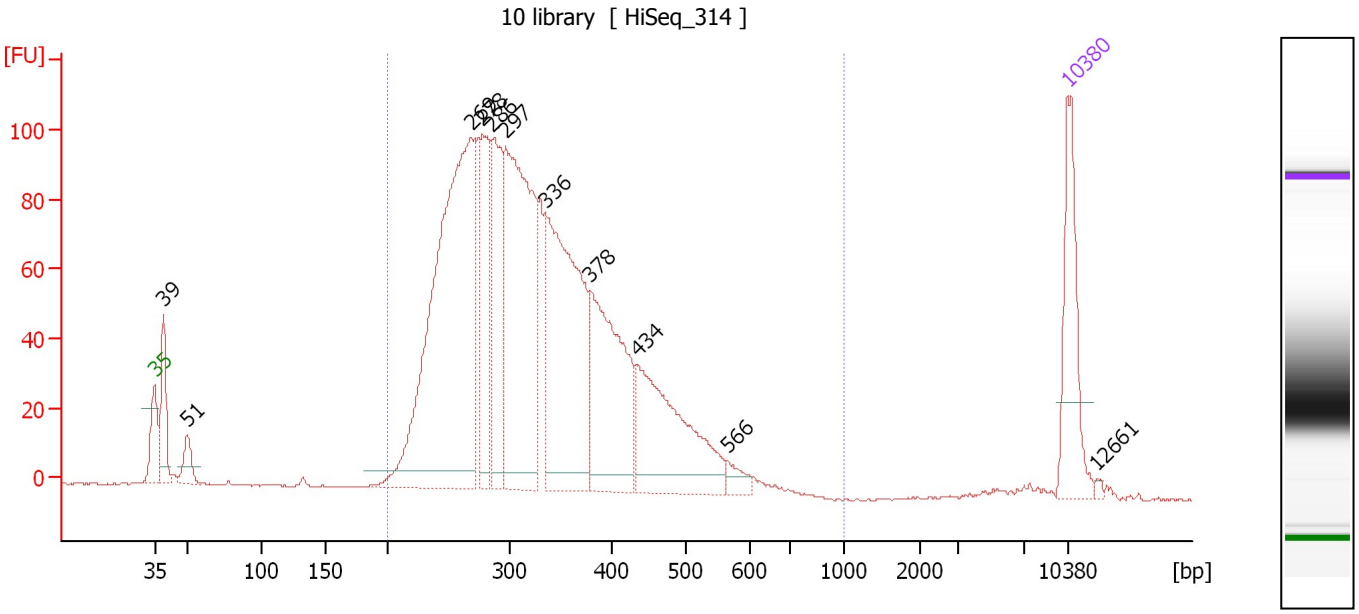
Region table for sample 6 : H314P 0.9X

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	352	1,701.7	12,919.6	2,796.85	99	25.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 10 library

Number of peaks found:	11	Corr. Area 1:	2,069.7
Noise:	0.2		

Peak table for sample 7 : 10 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		39	74.07	2,860.9		43.69
3		51	30.17	901.7		45.53
4		269	566.45	3,193.7		67.27
5		278	138.02	752.0		68.14
6		286	132.97	704.6		68.88
7		297	356.76	1,818.4		69.94
8		336	307.61	1,387.8		73.03
9		378	200.53	802.9		76.39
10		434	178.80	624.7		79.98
11		566	13.89	37.2		86.93
12	▶	10,380	75.00	10.9	Upper Marker	113.00
13		12,661	0.00	0.0		115.26

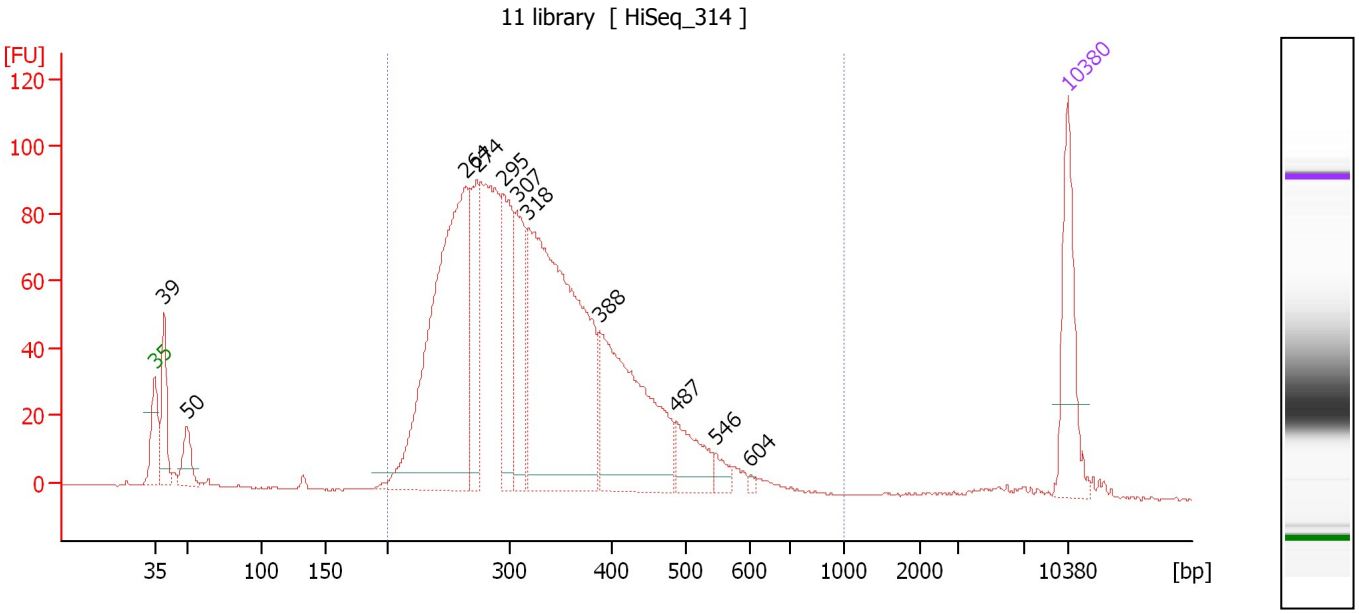
Region table for sample 7 : 10 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	332	2,069.7	9,885.9	2,019.13	95	24.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 11 library

Number of peaks found:	11	Corr. Area 1:	1,878.8
Noise:	0.2		

Peak table for sample 8 : 11 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	39	83.19	3,191.7		43.73
3	50	42.26	1,274.6		45.48
4	264	510.79	2,926.6		66.87
5	274	104.50	578.4		67.74
6	295	137.59	707.0		69.71
7	307	114.50	564.6		70.77
8	318	518.57	2,468.4		71.64
9	388	248.04	969.8		77.10
10	487	55.18	171.7		82.98
11	546	14.43	40.1		85.96
12	604	3.19	8.0		88.72
13	10,380	75.00	10.9	Upper Marker	113.00

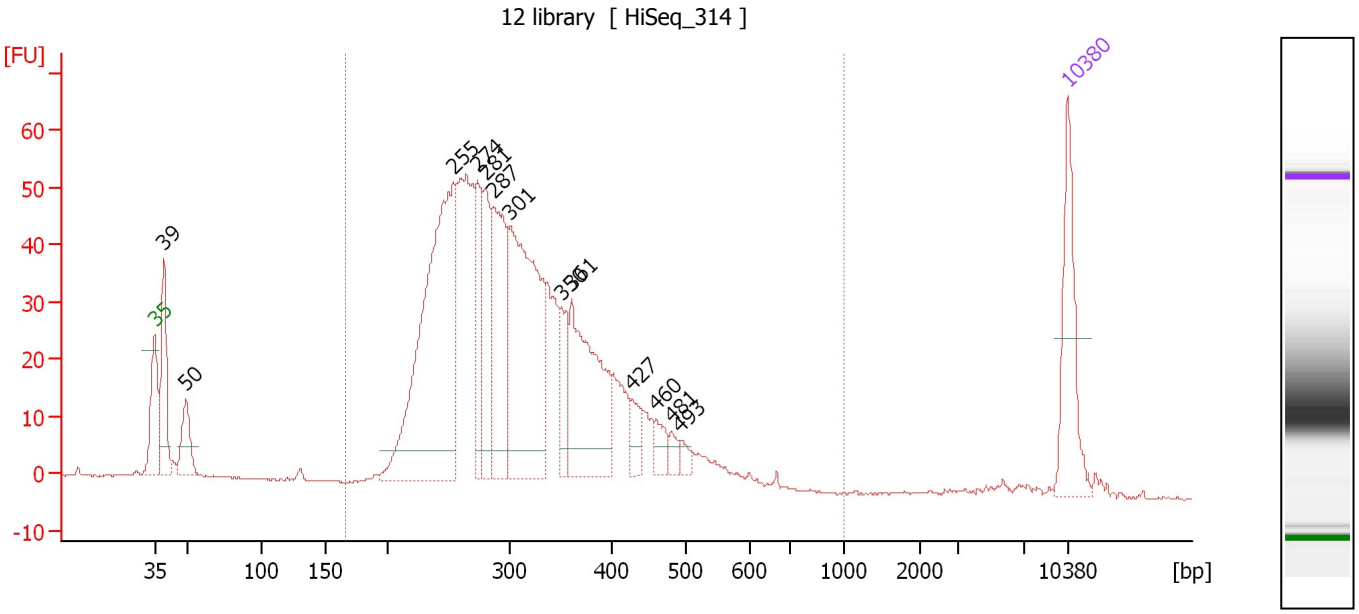
Region table for sample 8 : 11 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
200	1,000	333	1,878.8	9,527.6	1,945.04	94	25.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 12 library

Number of peaks found:	13	Corr. Area 1:	1,030.4
Noise:	0.2		

Peak table for sample 9 : 12 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		39	107.65	4,130.9		43.73
3		50	56.94	1,740.4		45.38
4		255	458.14	2,725.9		65.95
5		274	88.74	490.3		67.78
6		281	91.04	491.6		68.38
7		287	154.68	816.8		68.98
8		301	297.92	1,500.8		70.26
9		350	48.29	209.0		74.15
10		361	175.35	736.8		74.98
11		427	24.19	85.8		79.60
12		460	18.67	61.4		81.48
13		481	11.39	35.9		82.63
14		493	9.20	28.3		83.31
15	▶	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : 12 library

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Color [pg/µl]	% of Total	Size distribution in CV [%]
167	1,000	319	1,030.4	9,610.5	1,886.35	92	24.7

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

Gel Image

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...oanalyzer\2015-12-19\2015-12-19_001_HiSeq_314_Libraries.xad

Created: 12/19/2015 10:40:54 AM
Modified: 12/19/2015 11:23:39 AM

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		12/19/2015 11:22:11 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-19\2015-12-19_001.xad)		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/19/2015 10:40:59 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1