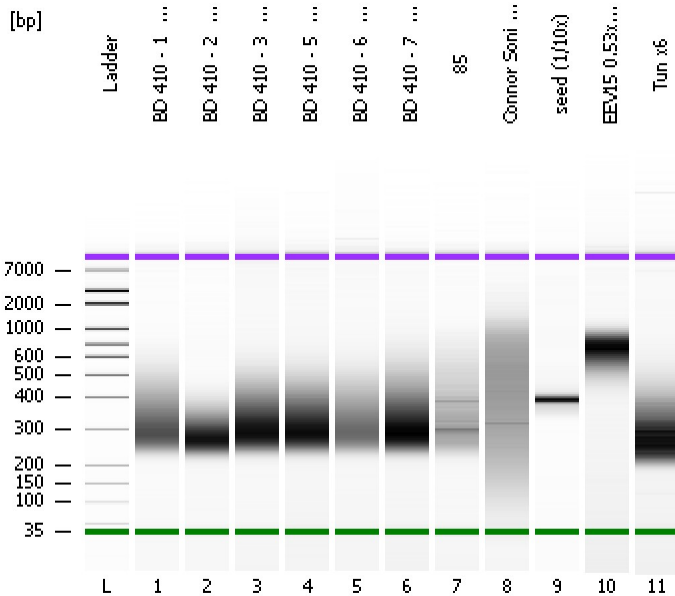


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
Modified: 3/20/2015 3:25:42 PM

Electrophoresis File Run Summary



Instrument Information:

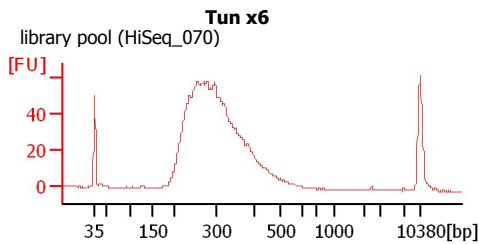
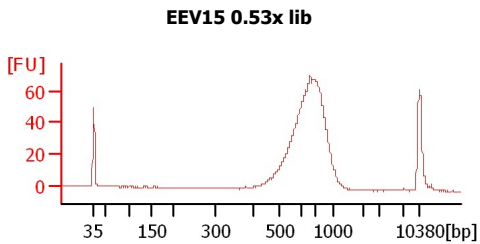
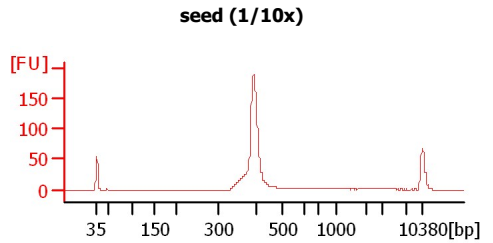
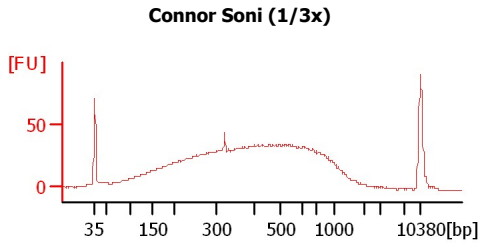
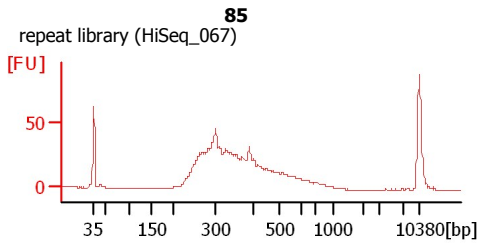
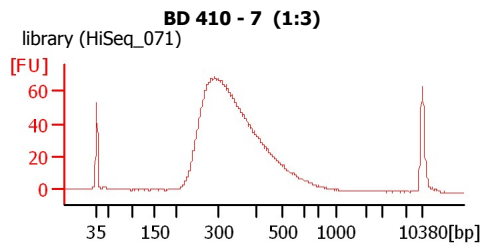
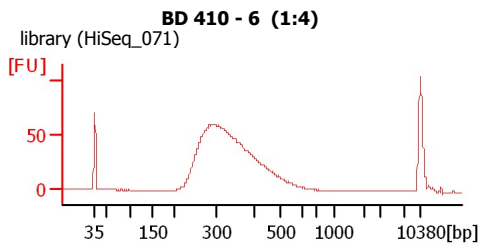
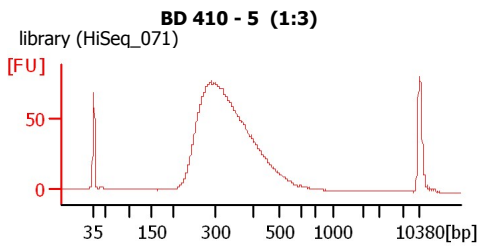
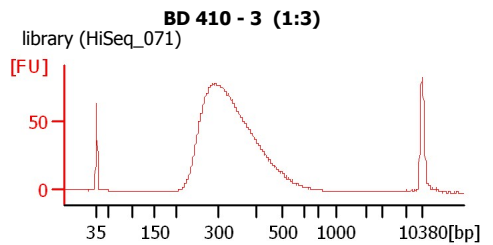
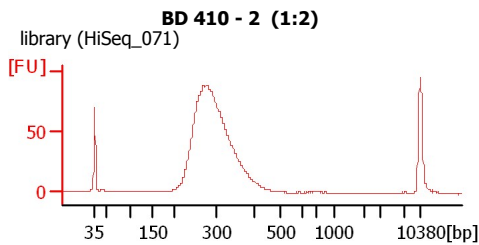
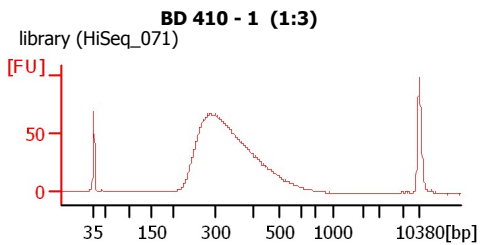
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
BD 410 - 1 (1:3)	library (HiSeq_071)	<input type="checkbox"/>	✓			
BD 410 - 2 (1:2)	library (HiSeq_071)	<input type="checkbox"/>	✓			
BD 410 - 3 (1:3)	library (HiSeq_071)	<input type="checkbox"/>	✓			
BD 410 - 5 (1:3)	library (HiSeq_071)	<input type="checkbox"/>	✓			
BD 410 - 6 (1:4)	library (HiSeq_071)	<input type="checkbox"/>	✓			
BD 410 - 7 (1:3)	library (HiSeq_071)	<input type="checkbox"/>	✓			
85	repeat library (HiSeq_067)	<input type="checkbox"/>	✓			
Connor Soni (1/3x)		<input type="checkbox"/>	✓			
seed (1/10x)		<input type="checkbox"/>	✓			
EEV15 0.53x lib		<input type="checkbox"/>	✓			
Tun x6	library pool (HiSeq_070)	<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\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 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

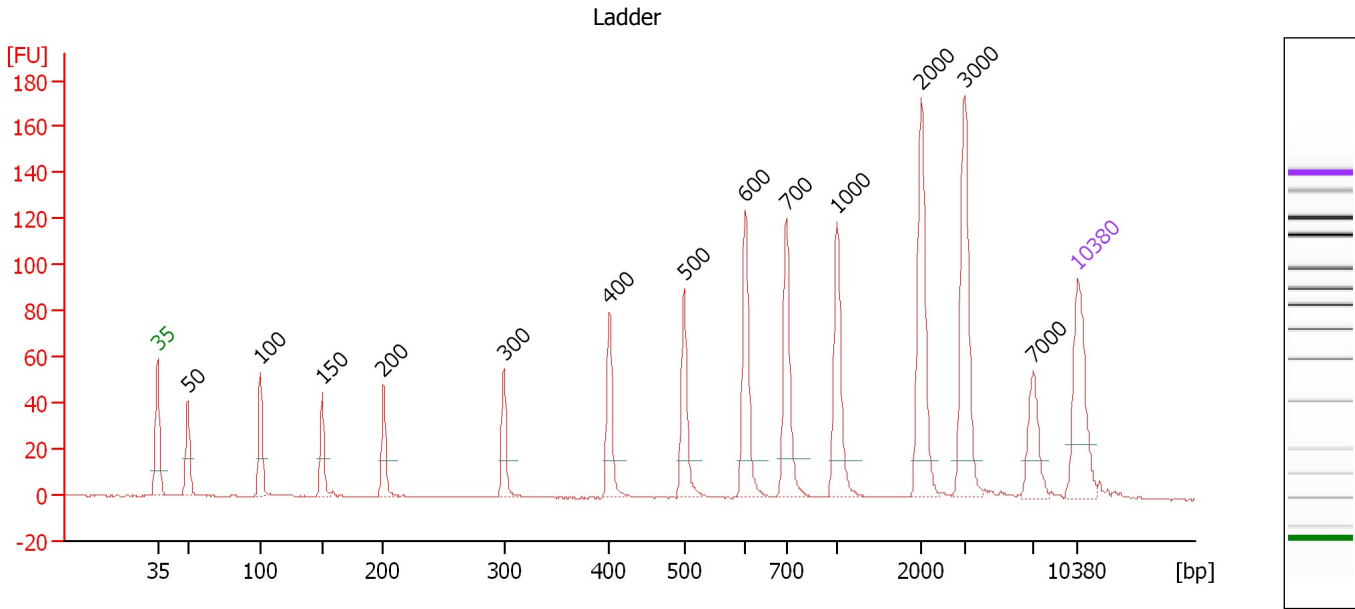
Ladder

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\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

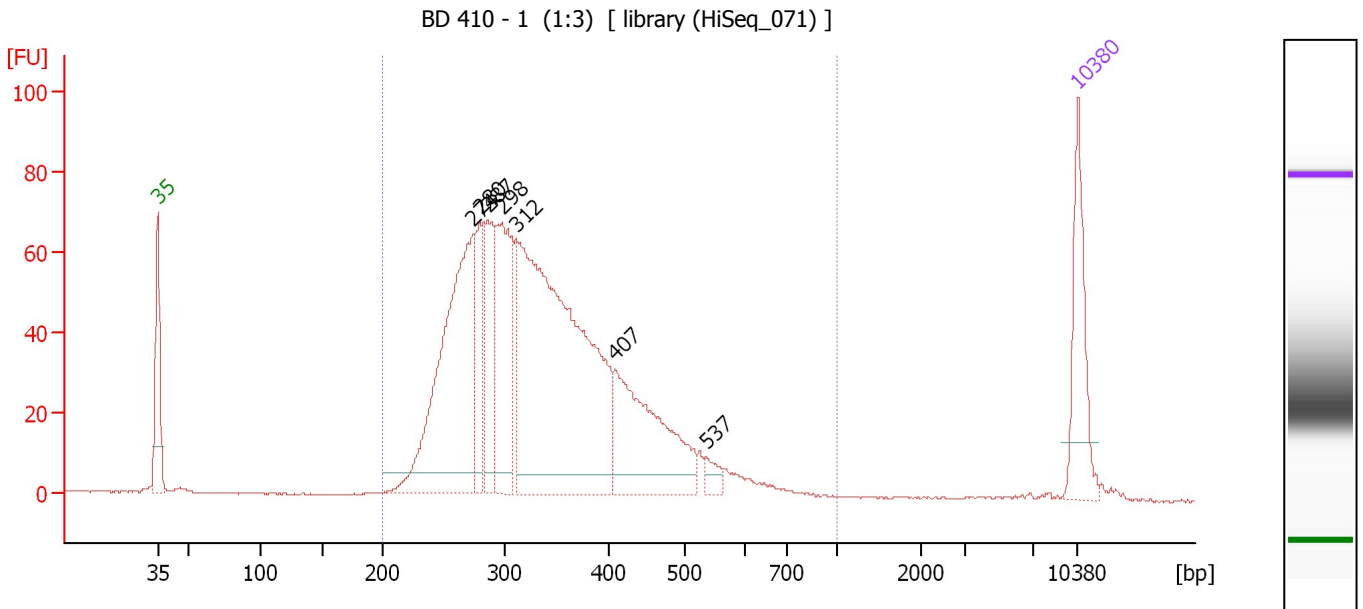
Peak table for Ladder

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	45.30
3	100	150.00	2,272.7	Ladder Peak	50.83
4	150	150.00	1,515.2	Ladder Peak	55.53
5	200	150.00	1,136.4	Ladder Peak	60.18
6	300	150.00	757.6	Ladder Peak	69.34
7	400	150.00	568.2	Ladder Peak	77.36
8	500	150.00	454.5	Ladder Peak	83.02
9	600	150.00	378.8	Ladder Peak	87.72
10	700	150.00	324.7	Ladder Peak	90.80
11	1,000	150.00	227.3	Ladder Peak	94.67
12	2,000	150.00	113.6	Ladder Peak	101.07
13	3,000	150.00	75.8	Ladder Peak	104.34
14	7,000	150.00	32.5	Ladder Peak	109.59
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BD 410 - 1 (1:3)

Number of peaks found: 7 Corr. Area 1: 1,351.3
 Noise: 0.1

Peak table for sample 1 : BD 410 - 1 (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	274	401.45	2,220.8		66.95
3	280	86.06	465.0		67.55
4	287	118.68	627.6		68.11
5	298	181.48	922.4		69.17
6	312	684.53	3,321.4		70.32
7	407	205.86	765.8		77.77
8	537	16.27	45.9		84.75
9	10,380	75.00	10.9	Upper Marker	113.00

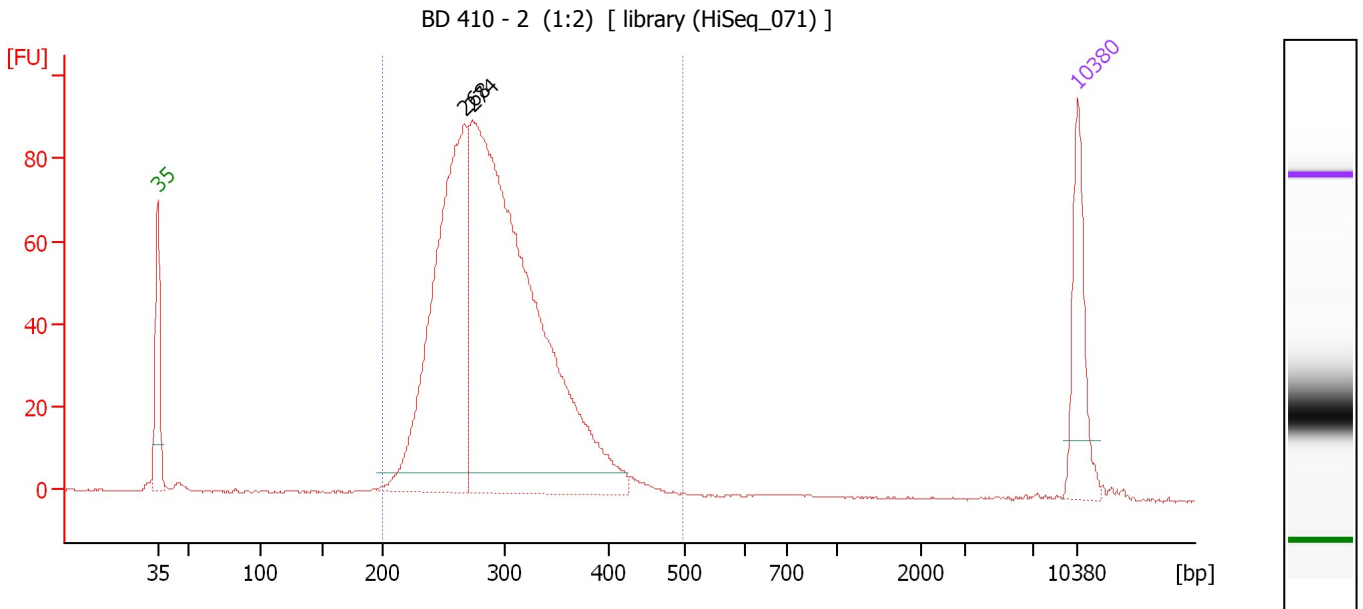
Region table for sample 1 : BD 410 - 1 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	345	1,000	1,351.3	8,286.2	98	25.6	1,754.33	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BD 410 - 2 (1:2)

Number of peaks found: 2 Corr. Area 1: 1,215.1
 Noise: 0.2

Peak table for sample 2 : BD 410 - 2 (1:2)

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	554.89	3,136.8		66.41
3	274	1,050.52	5,806.2		66.97
4	10,380	75.00	10.9	Upper Marker	113.00

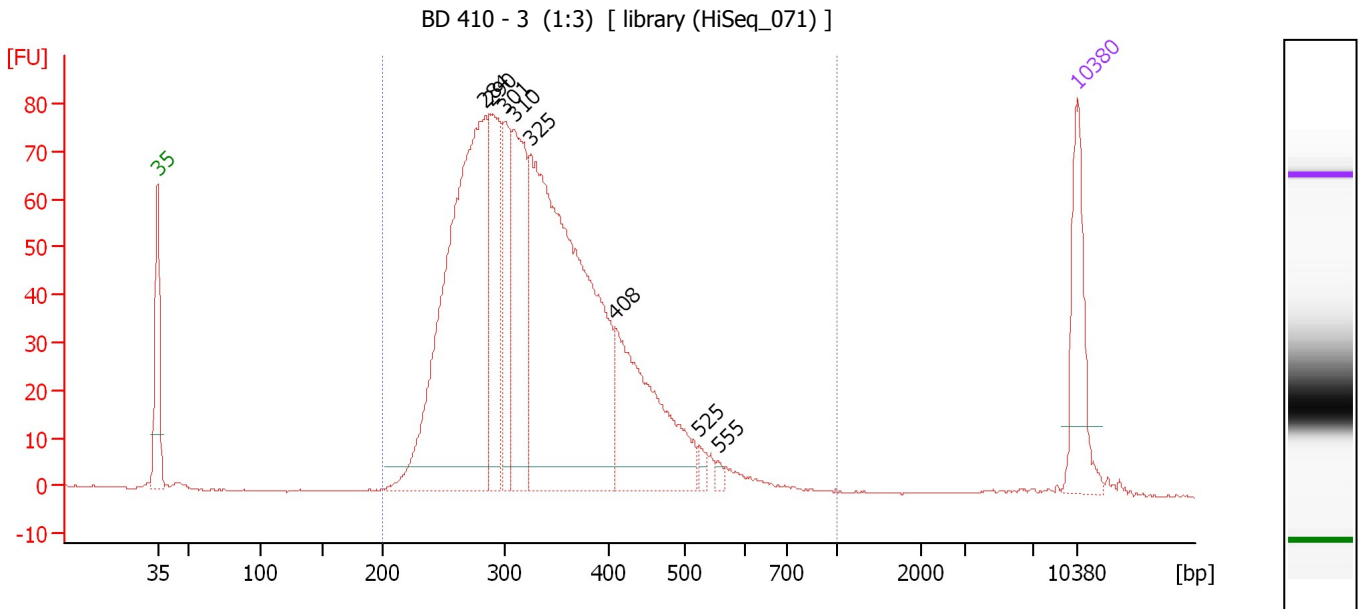
Region table for sample 2 : BD 410 - 2 (1:2)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	294	499	1,215.1	8,323.2	98	15.3	1,575.04	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BD 410 - 3 (1:3)

Number of peaks found: 8 Corr. Area 1: 1,498.6
 Noise: 0.2

Peak table for sample 3 : BD 410 - 3 (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	284	637.14	3,394.0		67.92
3	290	181.48	949.4		68.39
4	301	110.26	555.8		69.39
5	310	198.99	972.5		70.15
6	325	690.80	3,216.3		71.38
7	408	217.37	808.0		77.79
8	525	9.21	26.6		84.19
9	555	6.00	16.4		85.62
10	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 3 : BD 410 - 3 (1:3)

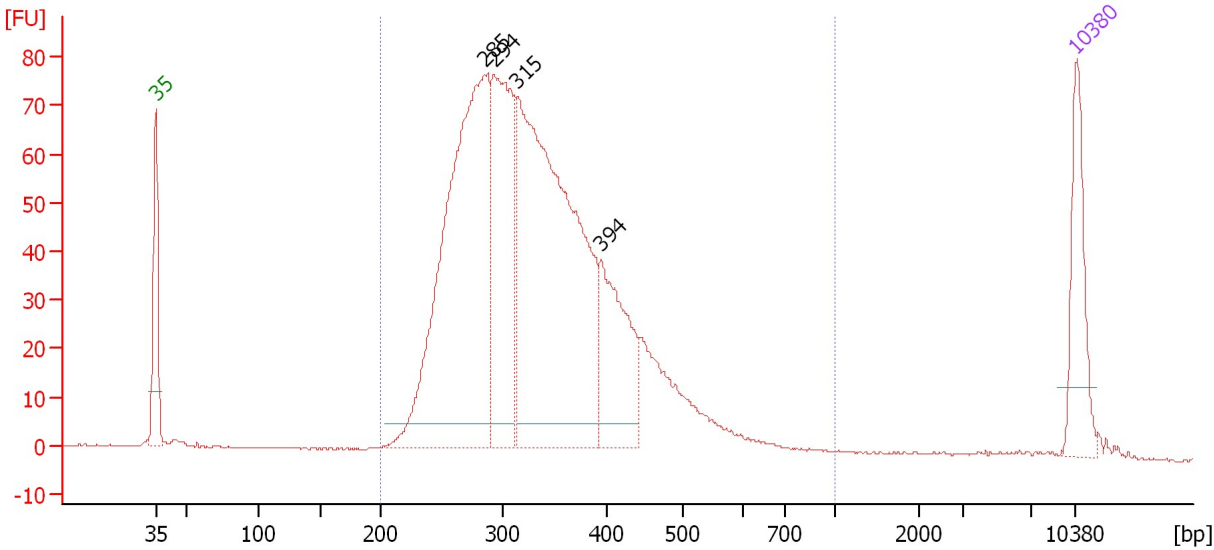
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	341	1,000	1,498.6	9,923.1	98	24.3	2,089.32	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...

BD 410 - 5 (1:3) [library (HiSeq_071)]



Overall Results for sample 4 : BD 410 - 5 (1:3)

Number of peaks found: 4 Corr. Area 1: 1,459.2
Noise: 0.1

Peak table for sample 4 : BD 410 - 5 (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	285	665.99	3,535.3		68.01
3	294	289.73	1,493.9		68.78
4	315	713.75	3,436.8		70.52
5	394	154.76	594.8		76.89
6	10,380	75.00	10.9	Upper Marker	113.00

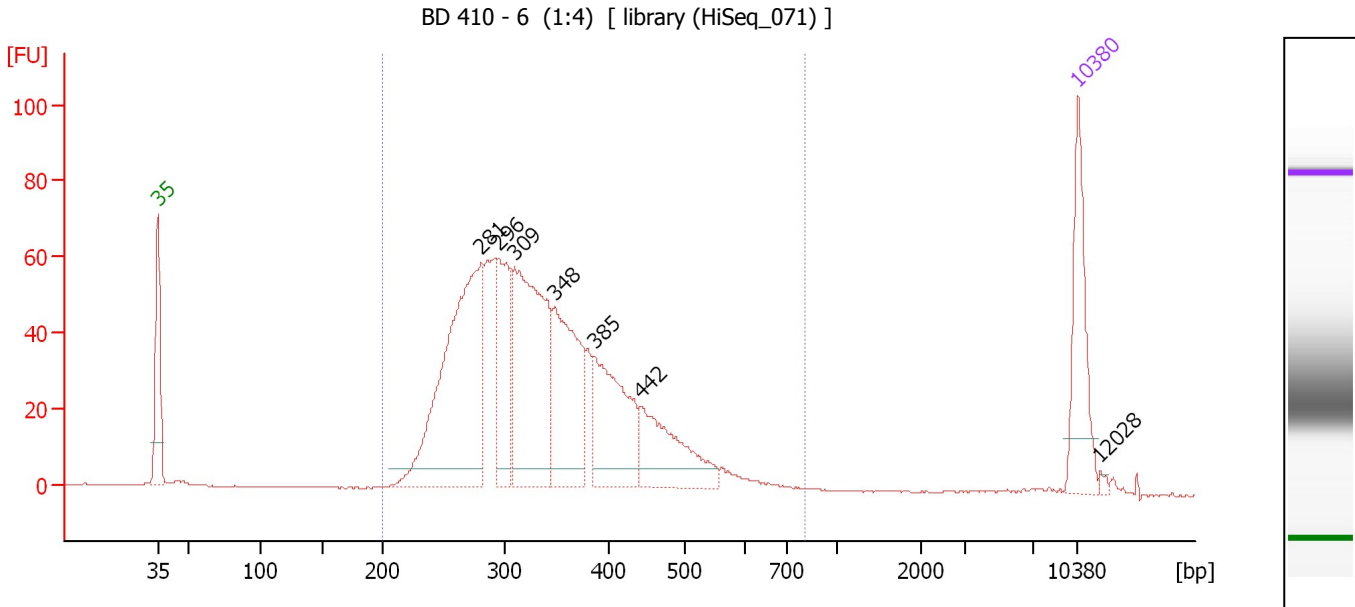
Region table for sample 4 : BD 410 - 5 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	341	1,000	1,459.2	9,583.9	98	24.7	2,017.77	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BD 410 - 6 (1:4)

Number of peaks found: 7 Corr. Area 1: 1,185.5
 Noise: 0.1

Peak table for sample 5 : BD 410 - 6 (1:4)

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	281	369.20	1,988.0		67.64
3	296	125.22	641.4		68.96
4	309	280.31	1,373.5		70.08
5	348	170.57	743.4		73.16
6	385	139.43	548.0		76.19
7	442	105.88	362.6		79.76
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,028	0.00	0.0		114.66

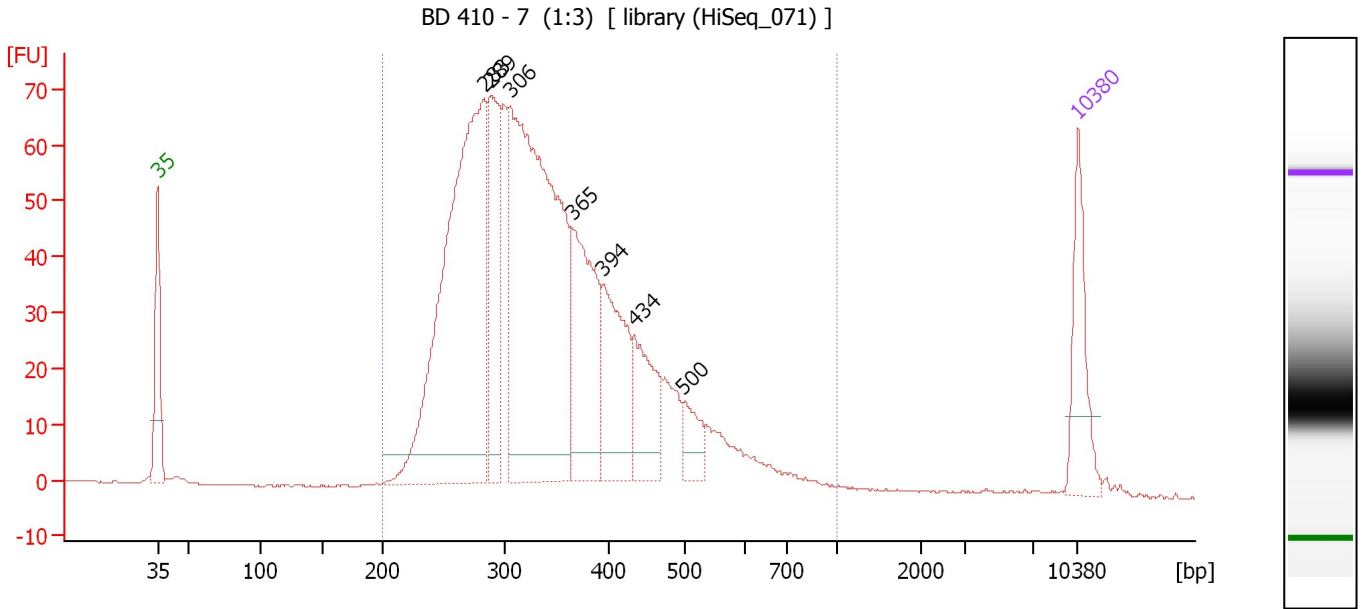
Region table for sample 5 : BD 410 - 6 (1:4)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	344	812	1,185.5	6,483.3	97	23.9	1,374.76	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : BD 410 - 7 (1:3)

Number of peaks found: 7 Corr. Area 1: 1,380.5
 Noise: 0.1

Peak table for sample 6 : BD 410 - 7 (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	283	707.48	3,783.5		67.81
3	289	182.48	955.9		68.36
4	306	746.27	3,700.6		69.79
5	365	213.11	884.0		74.57
6	394	157.66	606.0		76.89
7	434	106.59	372.5		79.26
8	500	41.71	126.4		83.01
9	10,380	75.00	10.9	Upper Marker	113.00

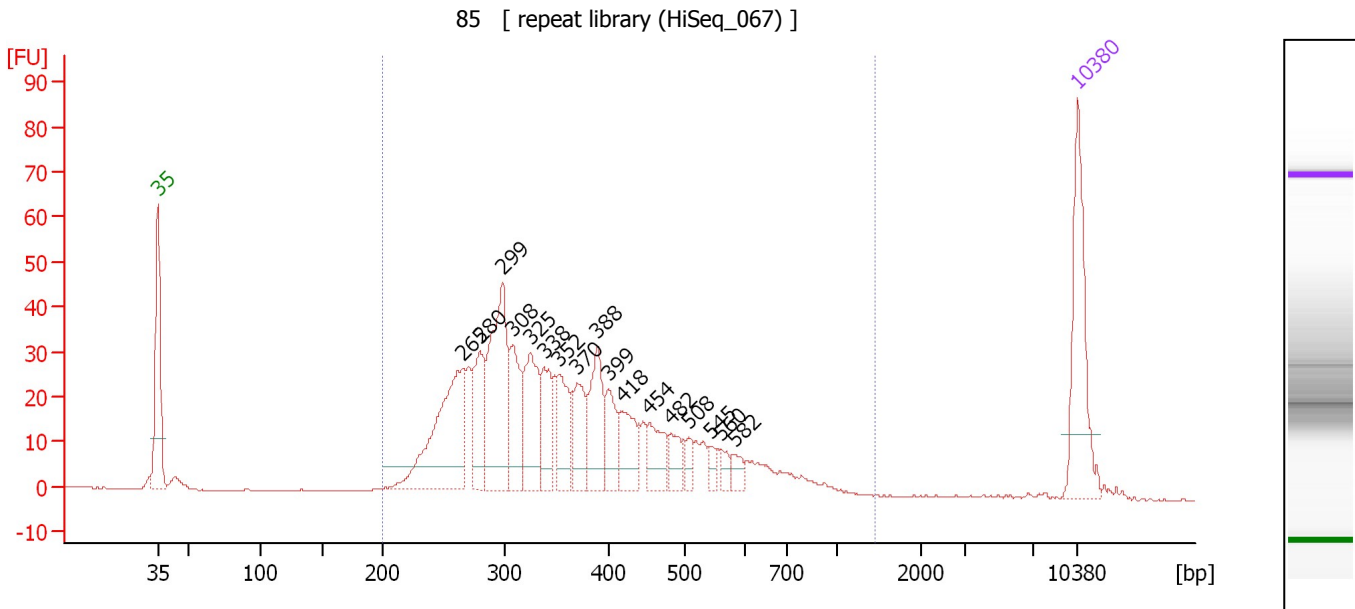
Region table for sample 6 : BD 410 - 7 (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	350	1,000	1,380.5	11,608.0	99	27.2	2,477.33	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 85

Number of peaks found: 17 Corr. Area 1: 763.6
 Noise: 0.1

Peak table for sample 7 : 85

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	265	158.08	903.9		66.13
3	280	60.35	326.3		67.53
4	299	141.53	718.0		69.22
5	308	57.42	282.1		70.01
6	325	74.00	344.8		71.36
7	338	47.39	212.3		72.40
8	352	48.34	207.8		73.55
9	370	43.80	179.4		74.94
10	388	57.02	222.4		76.43
11	399	35.19	133.6		77.28
12	418	41.50	150.5		78.37
13	454	32.16	107.3		80.41
14	482	22.41	70.4		82.00
15	508	12.12	36.2		83.40
16	545	9.67	26.9		85.14
17	560	9.60	26.0		85.84
18	582	10.80	28.1		86.88
19	10,380	75.00	10.9	Upper Marker	113.00

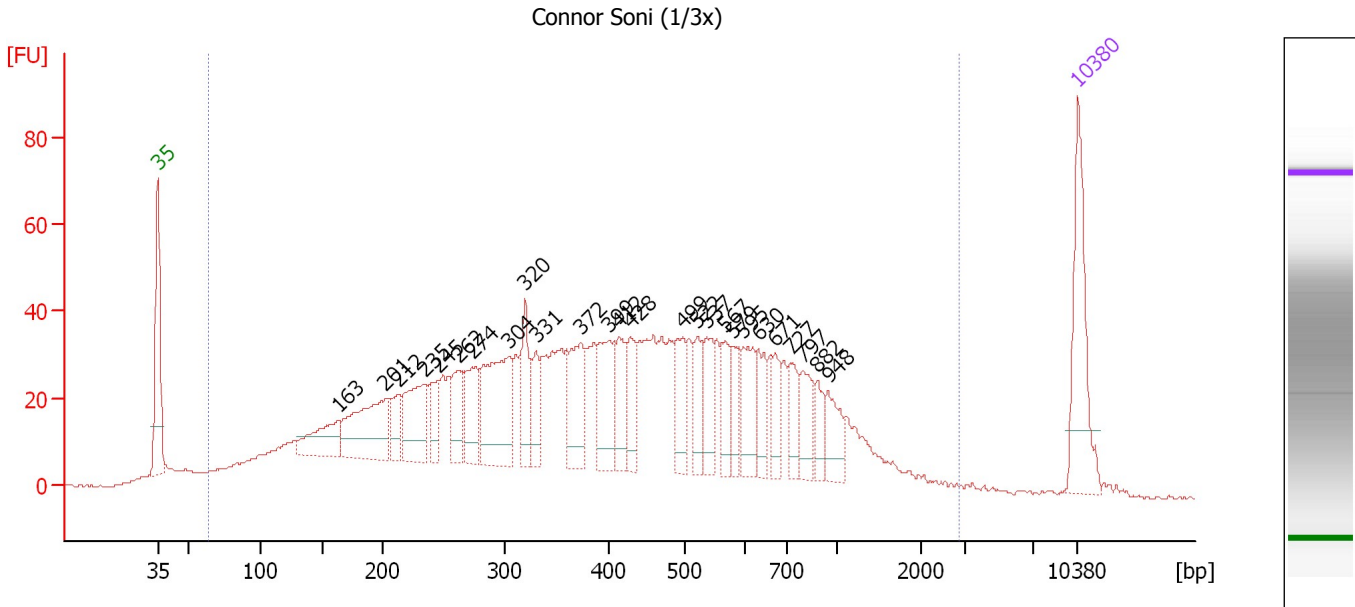
Region table for sample 7 : 85

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	379	1,455	763.6	4,595.3	99	33.4	1,022.30	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Connor Soni (1/3x)

Number of peaks found: 26 Corr. Area 1: 1,749.1
 Noise: 0.2

Peak table for sample 8 : Connor Soni (1/3x)

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	163	59.08	550.5		56.70
3	201	111.61	839.9		60.30
4	212	30.17	215.4		61.30
5	235	74.26	479.6		63.35
6	245	28.15	174.1		64.30
7	262	42.25	243.9		65.90
8	274	54.74	302.8		66.95
9	304	117.32	583.8		69.70
10	320	46.85	221.8		70.95
11	331	36.13	165.6		71.80
12	372	67.59	274.9		75.15
13	399	59.99	227.6		77.30
14	412	43.48	159.8		78.05
15	428	36.13	127.9		78.95
16	499	41.85	127.1		82.95
17	522	29.39	85.3		84.05
18	537	37.75	106.5		84.75
19	567	29.08	77.8		86.15
20	579	27.87	72.9		86.75
21	595	42.40	107.9		87.50
22	630	33.35	80.2		88.65
23	671	23.71	53.5		89.90
24	727	26.78	55.8		91.15
25	797	34.40	65.4		92.05

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad


Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : Connor Soni (1/3x)

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	882	20.19	34.7		93.15
27	948	29.37	47.0		94.00
28	10,380	75.00	10.9	Upper Marker	113.00

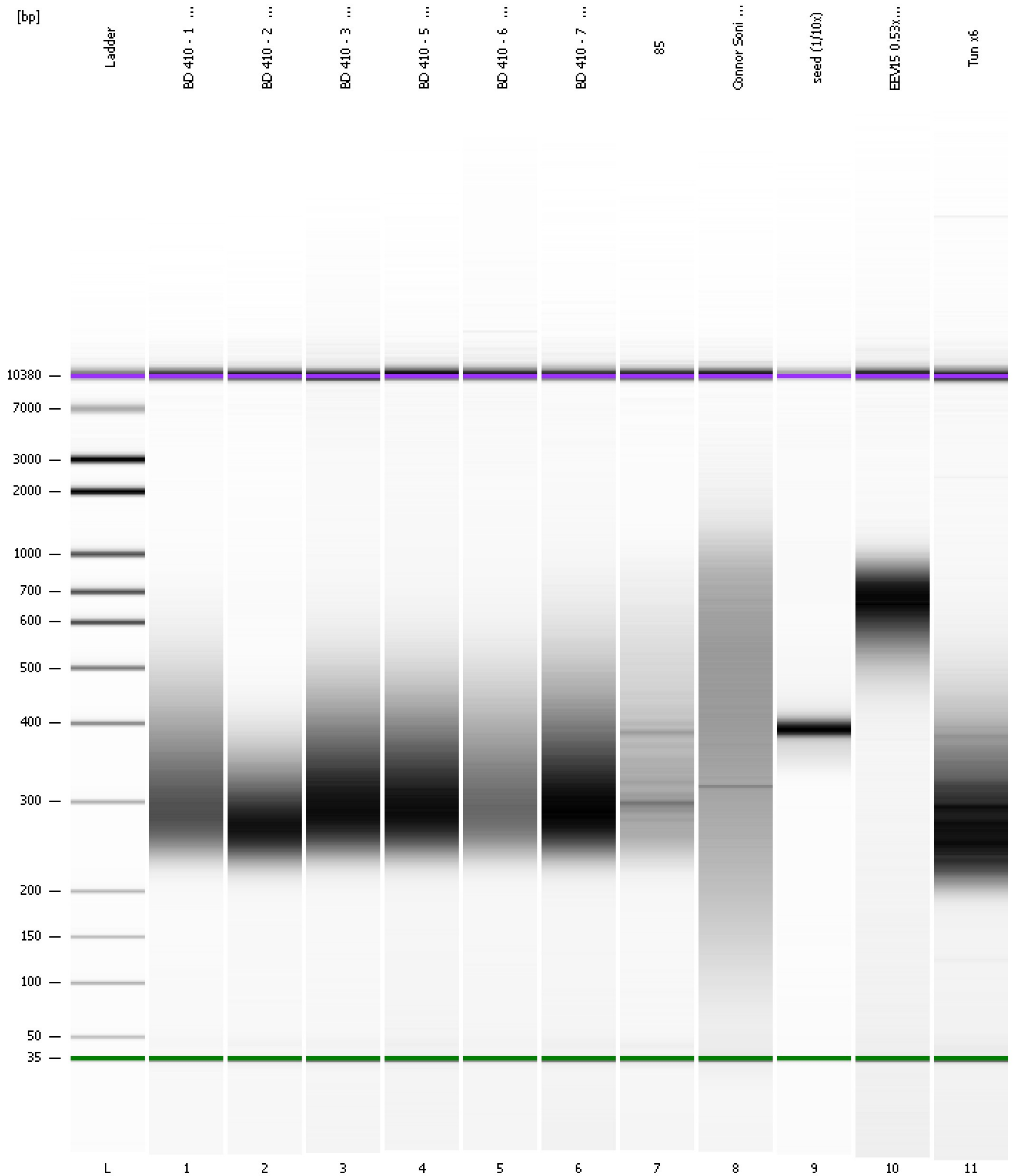
Region table for sample 8 : Connor Soni (1/3x)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
64	476	2,883	1,749.1	12,842.0	97	69.1	2,337.36	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
Modified: 3/20/2015 3:25:42 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad

Created: 3/20/2015 2:43:46 PM
 Modified: 3/20/2015 3:25:42 PM

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		3/20/2015 3:25:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-20\2015-03-20_002.xad)		Instrument	Run		3/20/2015 2:43:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/20/2015 2:43:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/20/2015 2:43:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/20/2015 2:43:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/20/2015 2:43:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/20/2015 2:43:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/20/2015 2:43:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1