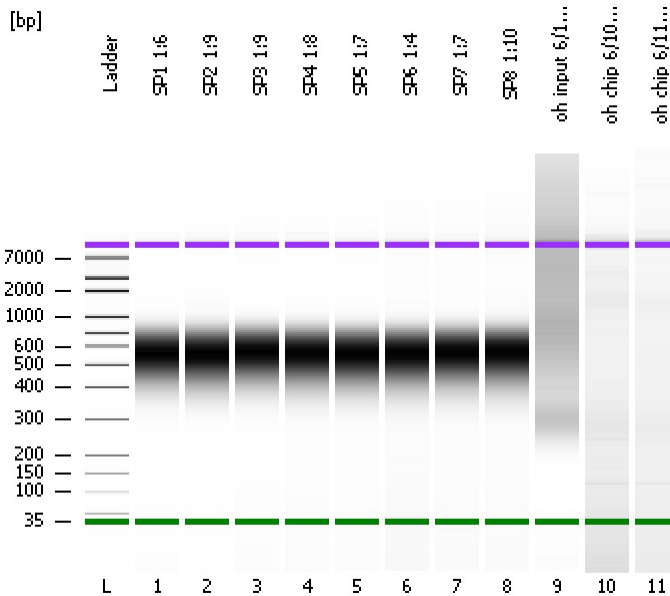


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
Modified: 6/16/2014 1:54:28 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

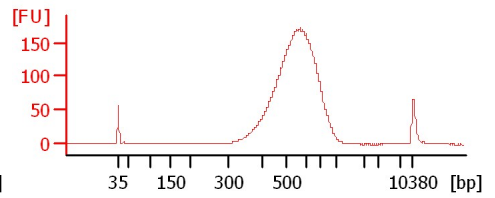
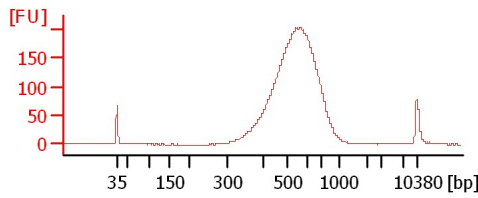
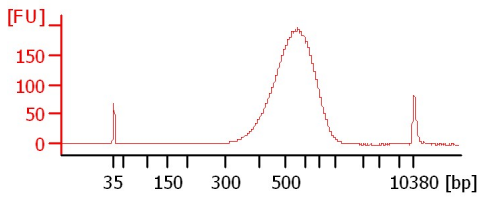
Chip Information:

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

SP1 1:6

SP2 1:9

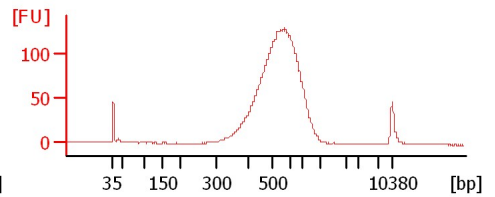
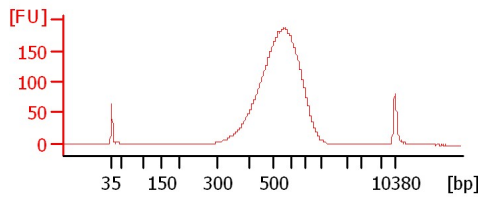
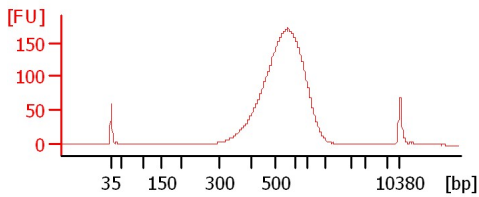
SP3 1:9



SP4 1:8

SP5 1:7

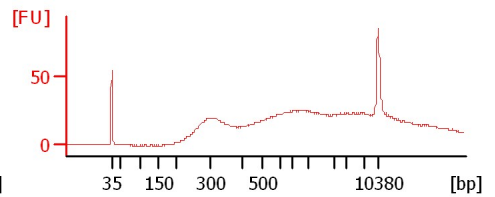
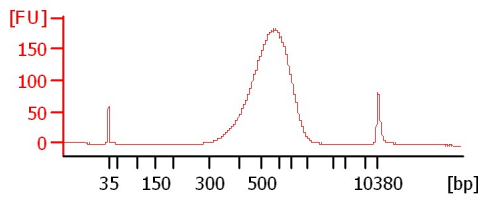
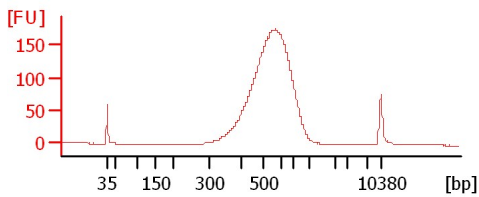
SP6 1:4



SP7 1:7

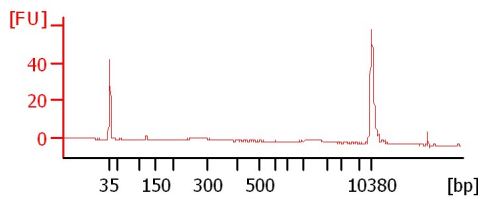
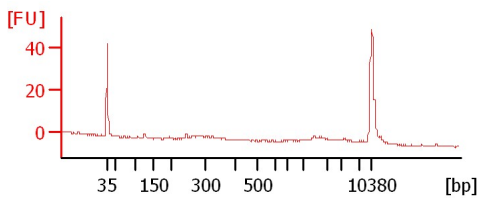
SP8 1:10

oh input 6/10/14



oh chip 6/10/14

oh chip 6/11/14



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
Modified: 6/16/2014 1:54:28 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
SP1 1:6		<input type="checkbox"/>	✓			
SP2 1:9		<input type="checkbox"/>	✓			
SP3 1:9		<input type="checkbox"/>	✓			
SP4 1:8		<input type="checkbox"/>	✓			
SP5 1:7		<input type="checkbox"/>	✓			
SP6 1:4		<input type="checkbox"/>	✓			
SP7 1:7		<input type="checkbox"/>	✓			
SP8 1:10		<input type="checkbox"/>	✓			
oh input 6/10/14		<input type="checkbox"/>	✓			
oh chip 6/10/14		<input type="checkbox"/>	✓			
oh chip 6/11/14		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
Modified: 6/16/2014 1:54:28 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

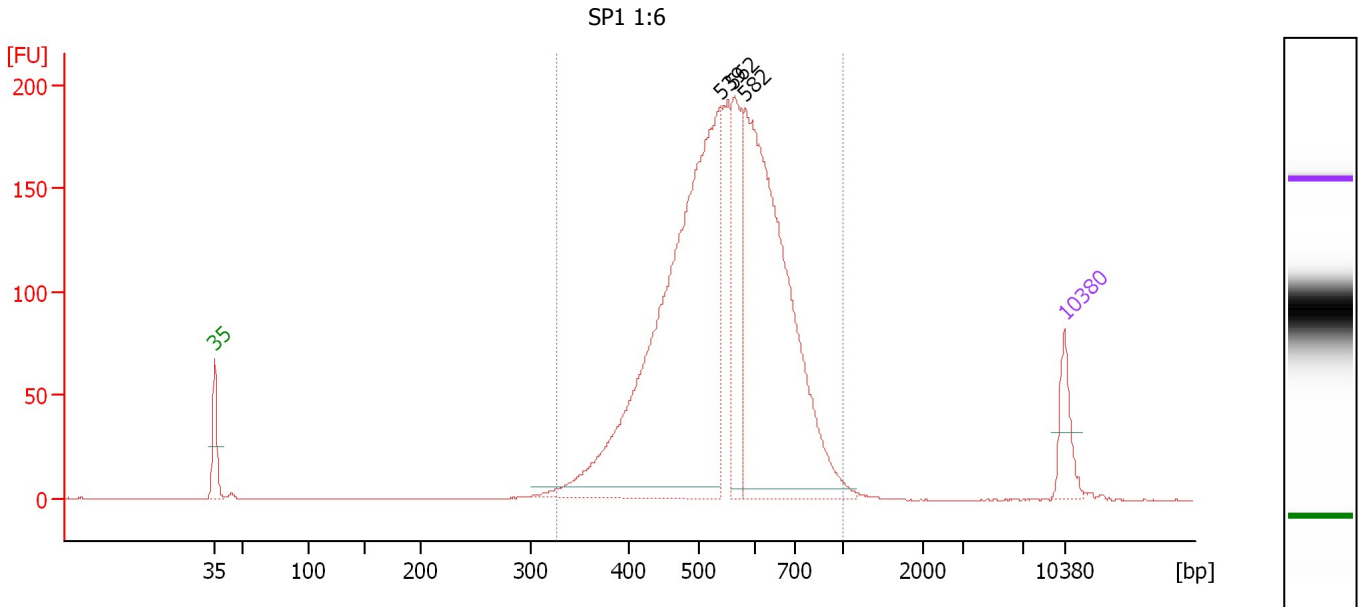
Ladder

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:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary



Overall Results for sample 1 : SP1 1:6

Number of peaks found: 3 Corr. Area 1: 2,640.0
 Noise: 0.1

Peak table for sample 1 : SP1 1:6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	539	1,673.97	4,704.9	
3	562	295.02	794.8	
4	582	1,249.13	3,251.9	
5	10,380	75.00	10.9	Upper Marker

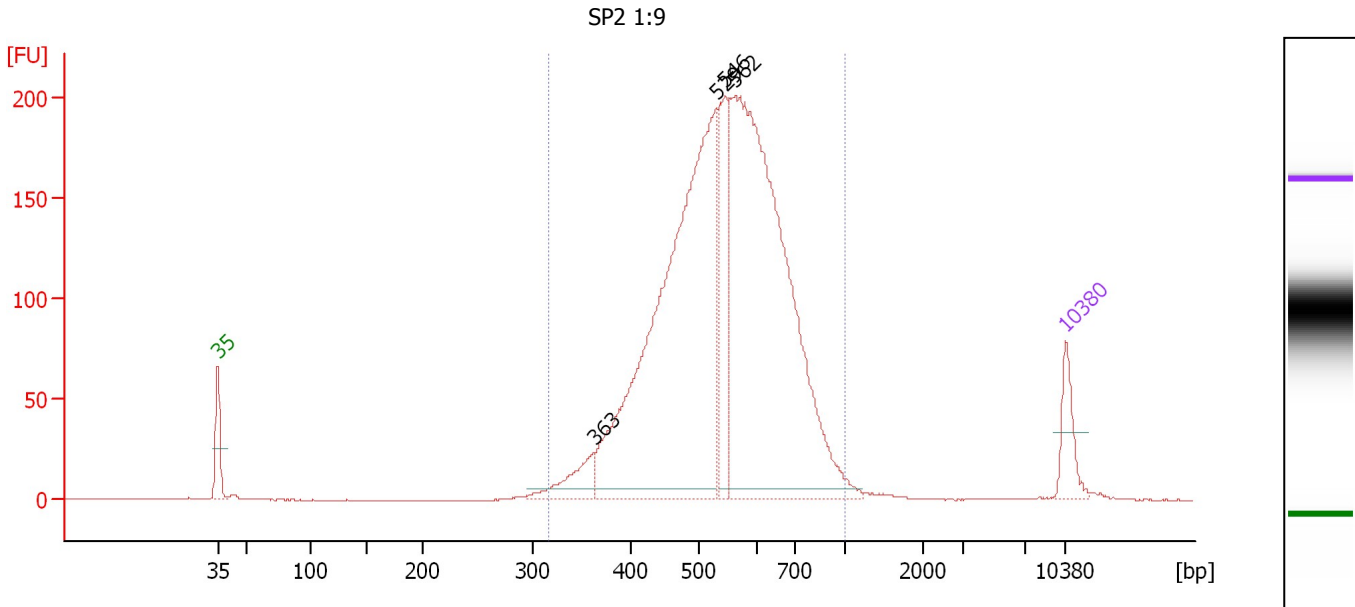
Region table for sample 1 : SP1 1:6

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
327	1,000	555	10,285.4	3,593.43	2,640.0	98	19.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SP2 1:9

Number of peaks found: 4 Corr. Area 1: 2,864.2
 Noise: 0.1

Peak table for sample 2 : SP2 1:9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	363	116.40	486.3	
3	529	1,678.56	4,810.0	
4	546	282.27	783.9	
5	562	1,710.39	4,607.4	
6	10,380	75.00	10.9	Upper Marker

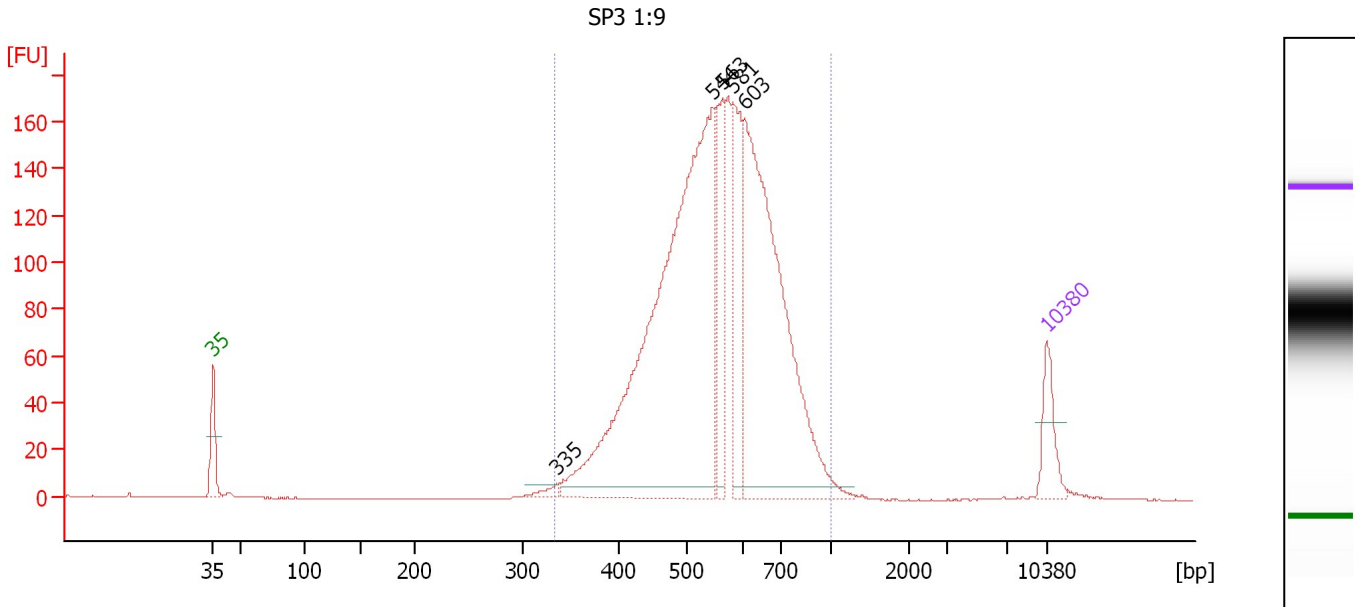
Region table for sample 2 : SP2 1:9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
317	1,000	551	11,193.9	3,863.90	2,864.2	98	20.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SP3 1:9

Number of peaks found: 5 Corr. Area 1: 2,317.2
 Noise: 0.2

Peak table for sample 3 : SP3 1:9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	335	18.05	81.5	
3	544	1,676.55	4,668.9	
4	563	226.30	608.9	
5	581	254.86	664.5	
6	603	1,024.92	2,575.2	
7	10,380	75.00	10.9	Upper Marker

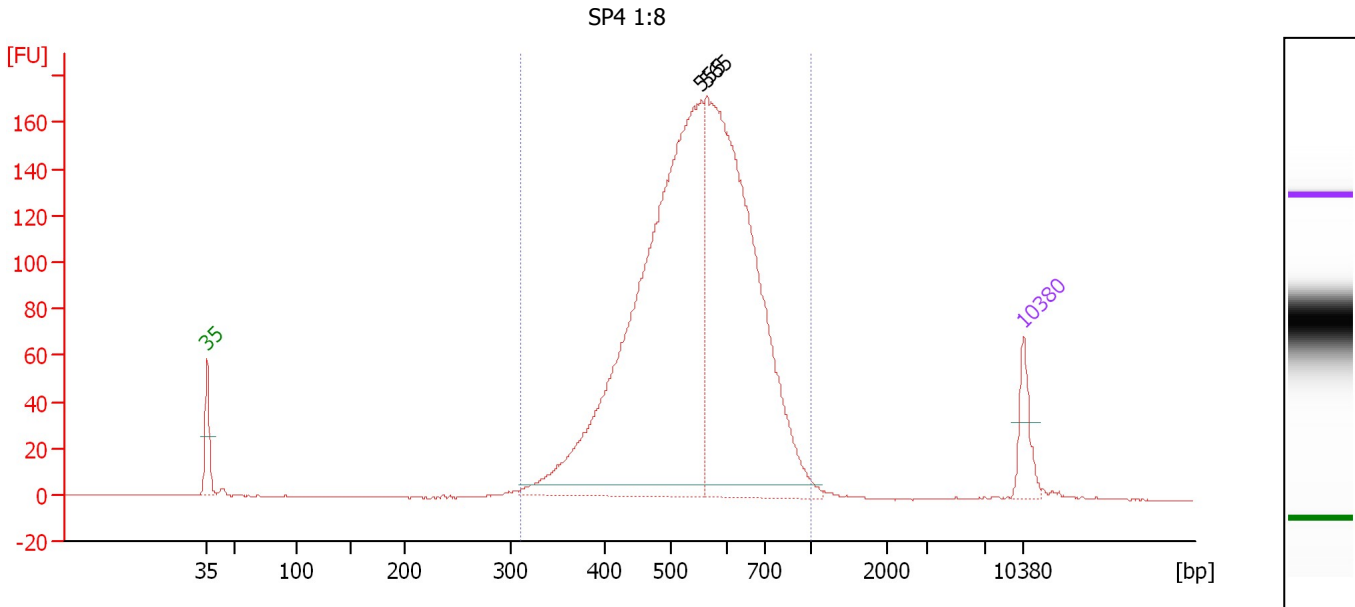
Region table for sample 3 : SP3 1:9

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
333	1,000	562	9,914.3	3,504.85	2,317.2	98	19.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SP4 1:8

Number of peaks found: 2 Corr. Area 1: 2,377.7
 Noise: 0.2

Peak table for sample 4 : SP4 1:8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	555	2,052.26	5,607.6	
3	565	1,625.79	4,358.3	
4	10,380	75.00	10.9	Upper Marker

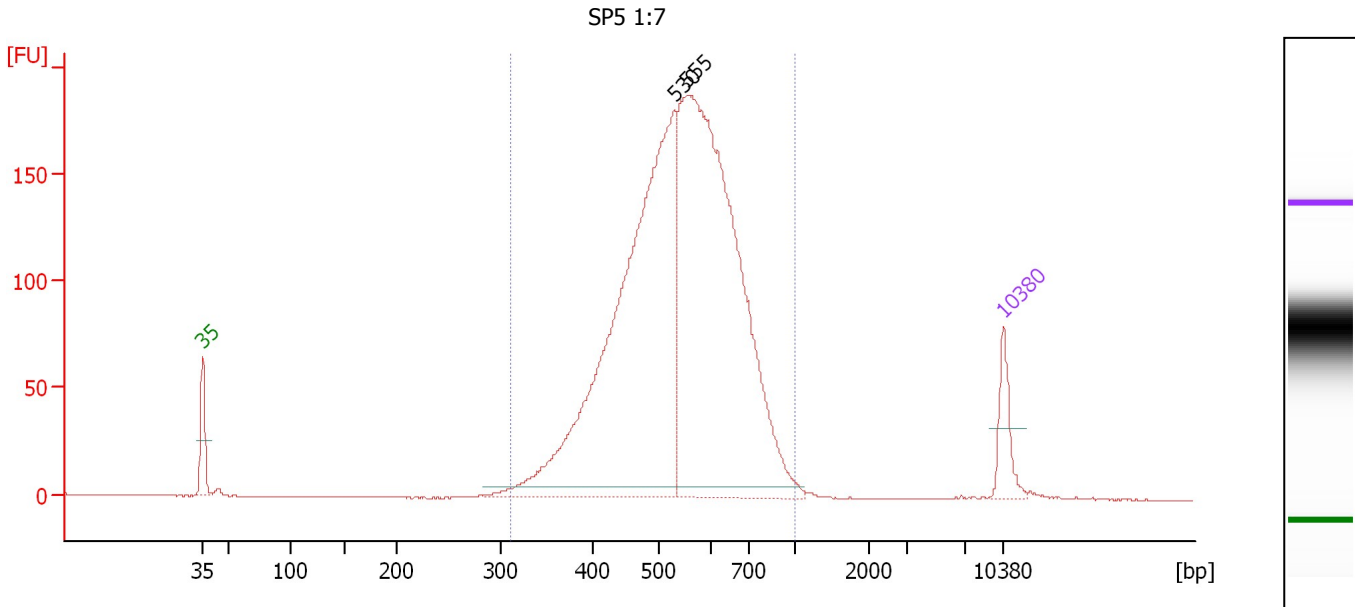
Region table for sample 4 : SP4 1:8

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
311	1,000	553	11,065.5	3,838.18	2,377.7	99	19.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SP5 1:7

Number of peaks found: 2 Corr. Area 1: 2,637.8
 Noise: 0.1

Peak table for sample 5 : SP5 1:7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	530	1,696.39	4,845.1	
3	555	1,782.98	4,865.1	
4	10,380	75.00	10.9	Upper Marker

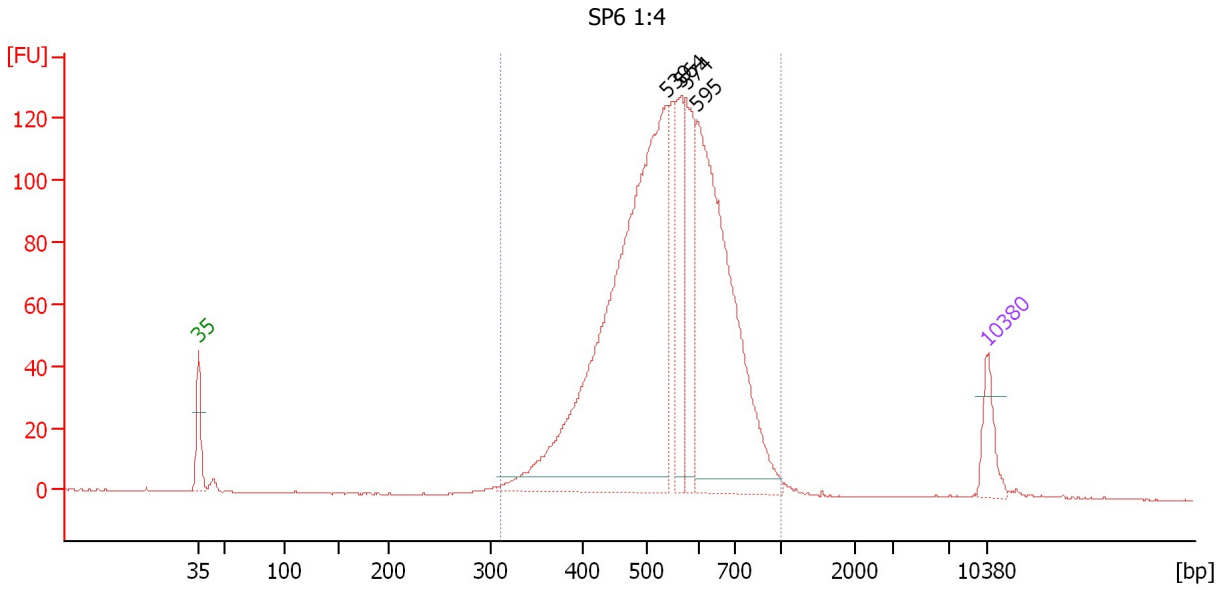
Region table for sample 5 : SP5 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
312	1,000	549	10,329.7	3,554.98	2,637.8	98	19.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SP6 1:4

Number of peaks found: 4 Corr. Area 1: 1,783.8
 Noise: 0.2

Peak table for sample 6 : SP6 1:4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	539	1,786.16	5,020.0	
3	564	246.23	661.2	
4	574	306.13	807.6	
5	595	1,019.68	2,594.5	
6	10,380	75.00	10.9	Upper Marker

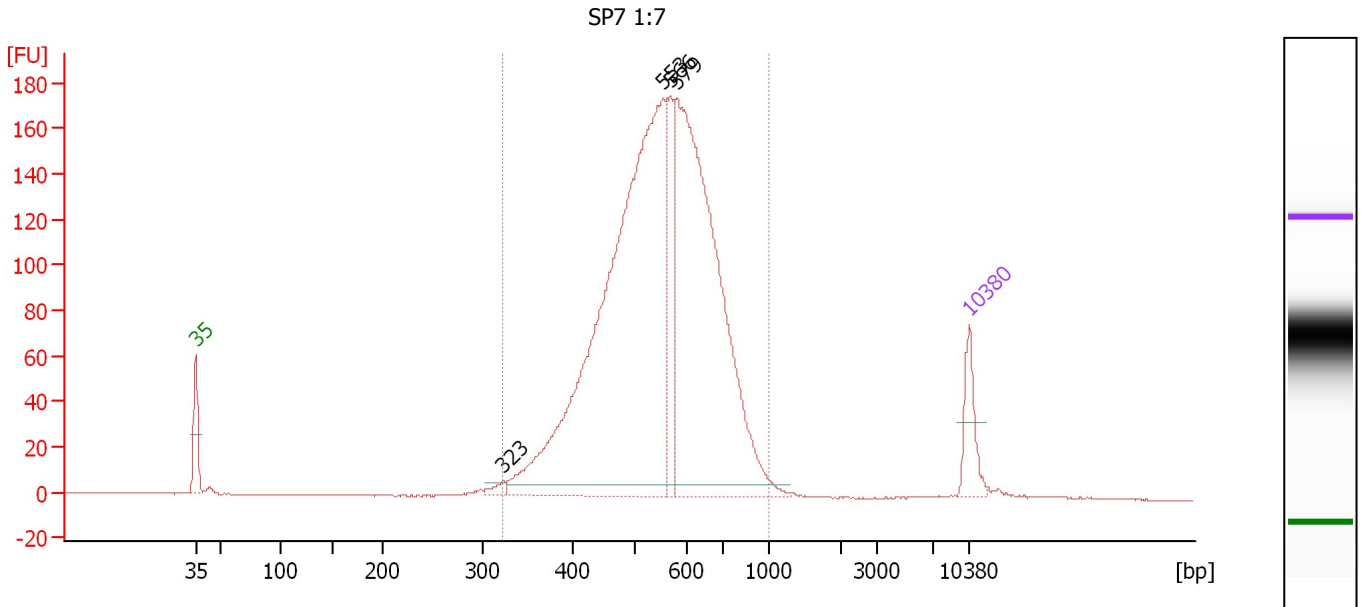
Region table for sample 6 : SP6 1:4

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
311	1,000	550	10,858.4	3,748.96	1,783.8	98	19.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SP7 1:7

Number of peaks found: 4 Corr. Area 1: 2,382.5
 Noise: 0.2

Peak table for sample 7 : SP7 1:7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	323	16.80	78.9	
3	553	1,818.61	4,983.5	
4	566	192.55	515.2	
5	579	1,276.57	3,343.3	
6	10,380	75.00	10.9	Upper Marker

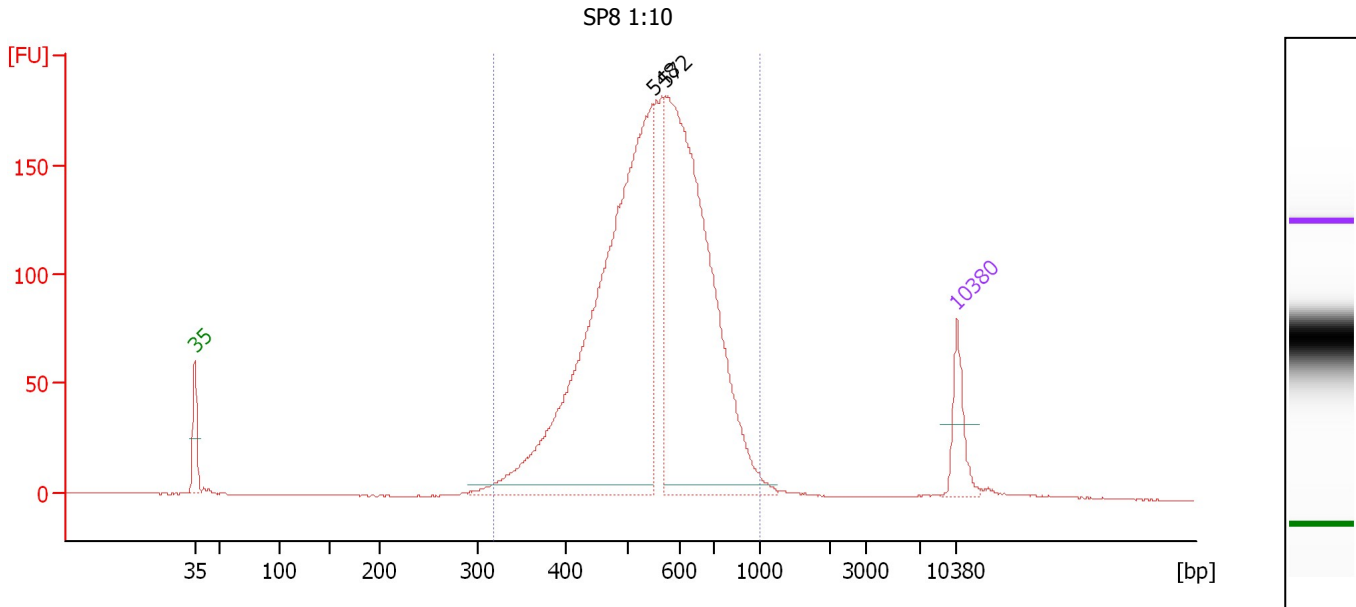
Region table for sample 7 : SP7 1:7

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
322	1,000	556	9,813.0	3,425.86	2,382.5	98	19.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SP8 1:10

Number of peaks found: 2 Corr. Area 1: 2,508.4
 Noise: 0.1

Peak table for sample 8 : SP8 1:10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	548	1,603.91	4,434.4	
3	572	1,283.39	3,399.8	
4	10,380	75.00	10.9	Upper Marker

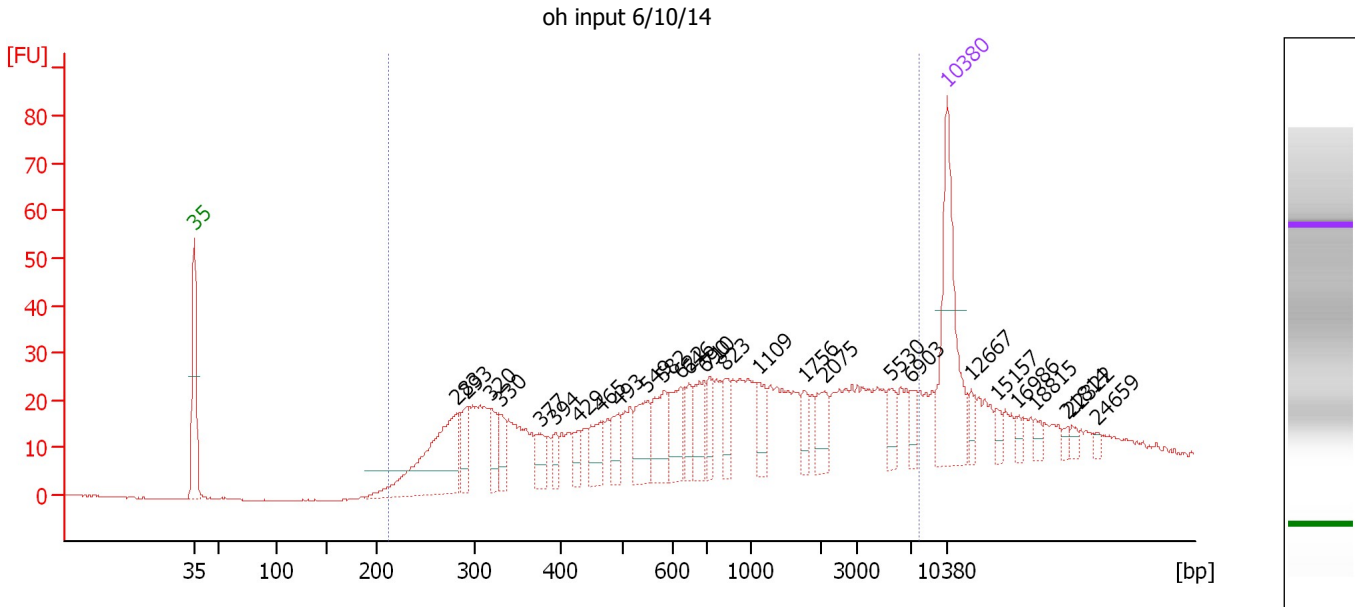
Region table for sample 8 : SP8 1:10

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
318	1,000	557	9,365.9	3,267.56	2,508.4	97	20.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : oh input 6/10/14

Number of peaks found: 28 Corr. Area 1: 787.9
 Noise: 0.2

Peak table for sample 9 : oh input 6/10/14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	283	116.47	623.7	
3	293	26.75	138.4	
4	320	22.49	106.7	
5	330	16.60	76.2	
6	377	16.72	67.2	
7	394	10.26	39.5	
8	429	14.33	50.6	
9	465	24.68	80.5	
10	493	17.83	54.8	
11	549	31.91	88.1	
12	582	33.10	86.2	
13	622	28.74	70.0	
14	646	14.54	34.1	
15	690	27.38	60.1	
16	710	15.38	32.8	
17	823	17.45	32.1	
18	1,109	16.94	23.1	
19	1,756	9.80	8.5	
20	2,075	17.69	12.9	
21	5,530	11.92	3.3	
22	6,903	8.58	1.9	
23	10,380	75.00	10.9	Upper Marker
24	12,667	0.00	0.0	
25	15,157	0.00	0.0	
26	16,986	0.00	0.0	


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...**... Peak table for sample 9 : oh input 6/10/14**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	18,815	0.00	0.0	
28	21,814	0.00	0.0	
29	22,322	0.00	0.0	
30	24,659	0.00	0.0	

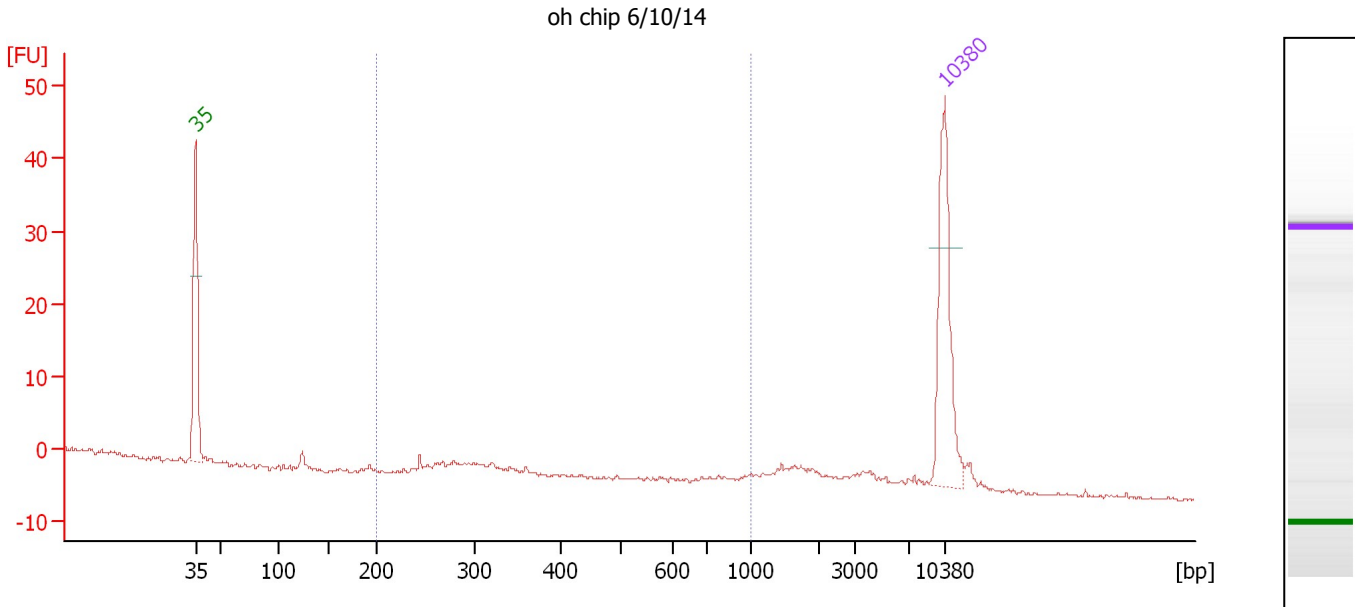
Region table for sample 9 : oh input 6/10/14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. for Area	% of Total	Size distribution in CV [%]
212	7,680	1,461	2,307.7	801.77	 787.9	86	100.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : oh chip 6/10/14

Number of peaks found: 0 Corr. Area 1: 4.3
 Noise: 0.2

Peak table for sample 10 : oh chip 6/10/14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

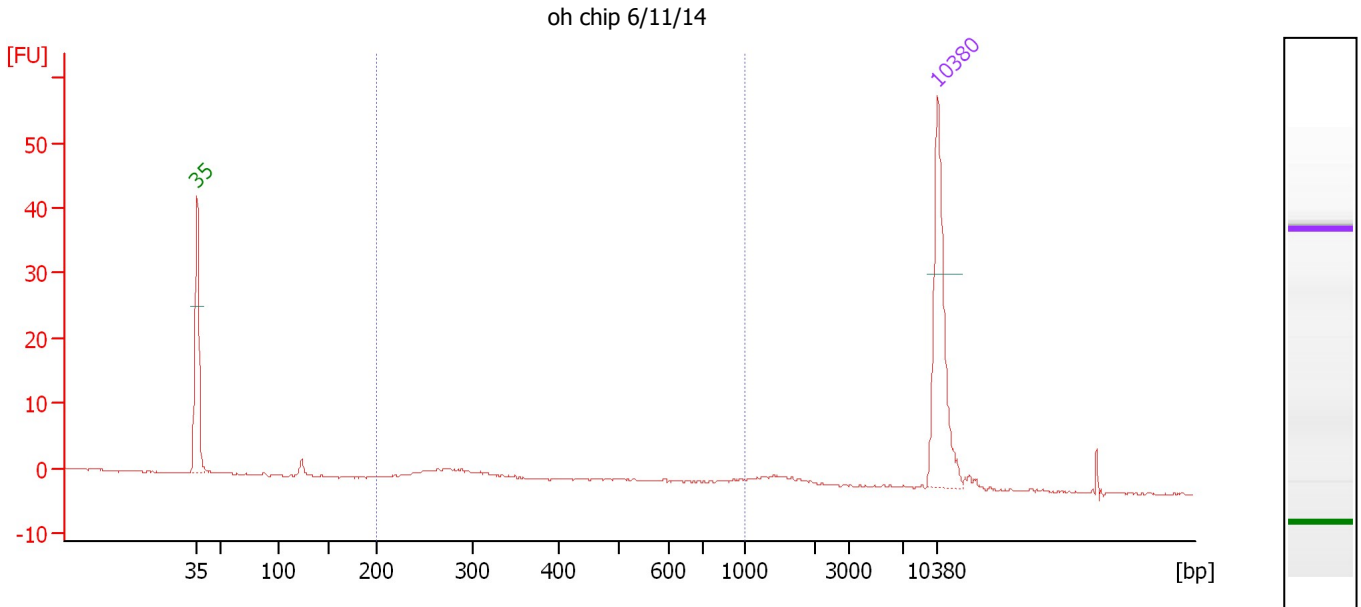
Region table for sample 10 : oh chip 6/10/14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	414	41.9	8.71	4.3	16	59.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
 Modified: 6/16/2014 1:54:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : oh chip 6/11/14

Number of peaks found: 0 Corr. Area 1: 20.1
 Noise: 0.1

Peak table for sample 11 : oh chip 6/11/14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : oh chip 6/11/14

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	428	175.8	38.79	20.1	56	49.2

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-16\2014-06-16_001.xad

Created: 6/16/2014 1:13:04 PM
Modified: 6/16/2014 1:54:28 PM

Gel Image

