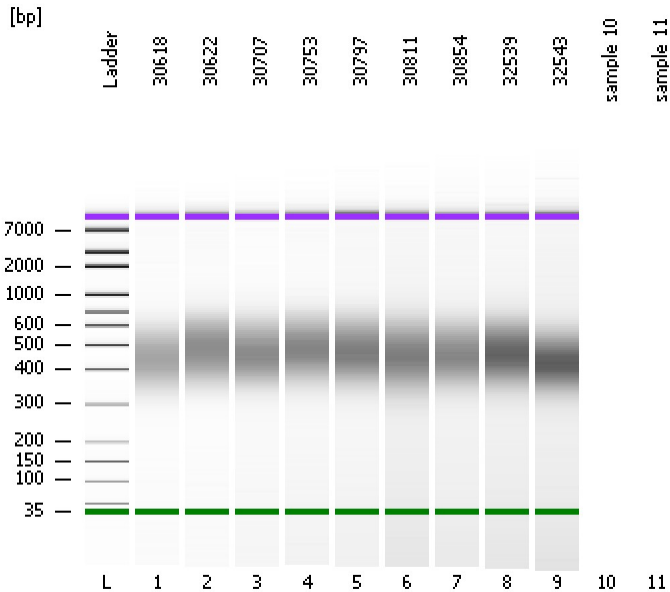


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
Modified: 11/8/2013 4:16:36 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

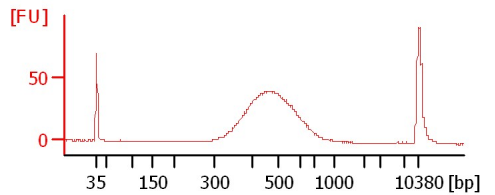
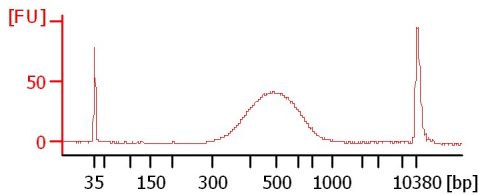
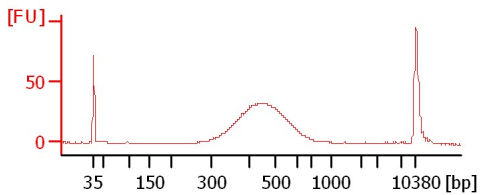
Chip Information:

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

30618

30622

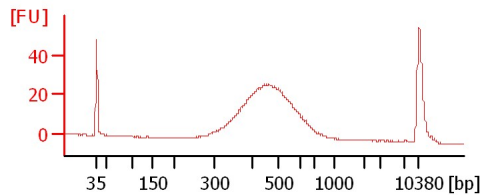
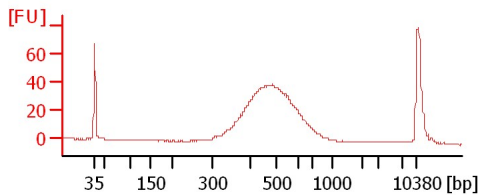
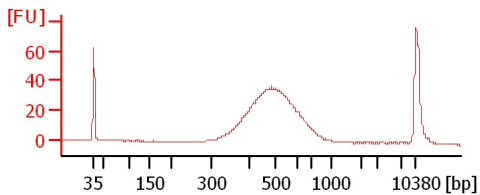
30707



30753

30797

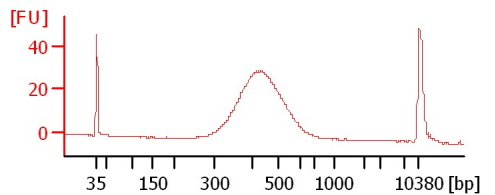
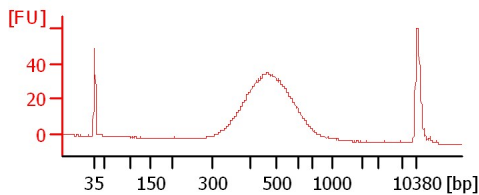
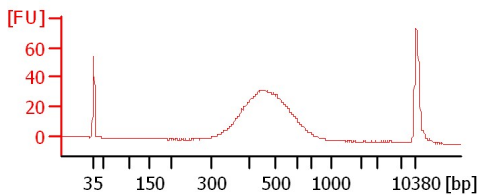
30811



30854

32539

32543



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
Modified: 11/8/2013 4:16:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
30618		<input type="checkbox"/>	✓			
30622		<input type="checkbox"/>	✓			
30707		<input type="checkbox"/>	✓			
30753		<input type="checkbox"/>	✓			
30797		<input type="checkbox"/>	✓			
30811		<input type="checkbox"/>	✓			
30854		<input type="checkbox"/>	✓			
32539		<input type="checkbox"/>	✓			
32543		<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\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
Modified: 11/8/2013 4:16:36 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

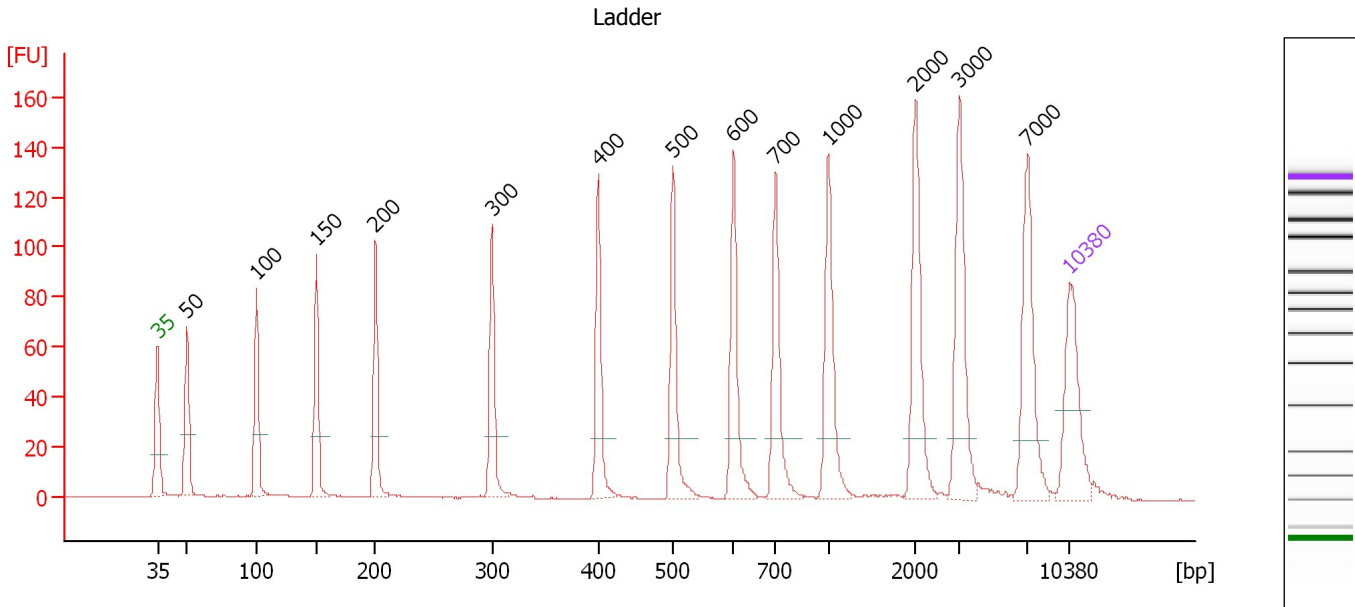
Ladder

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\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

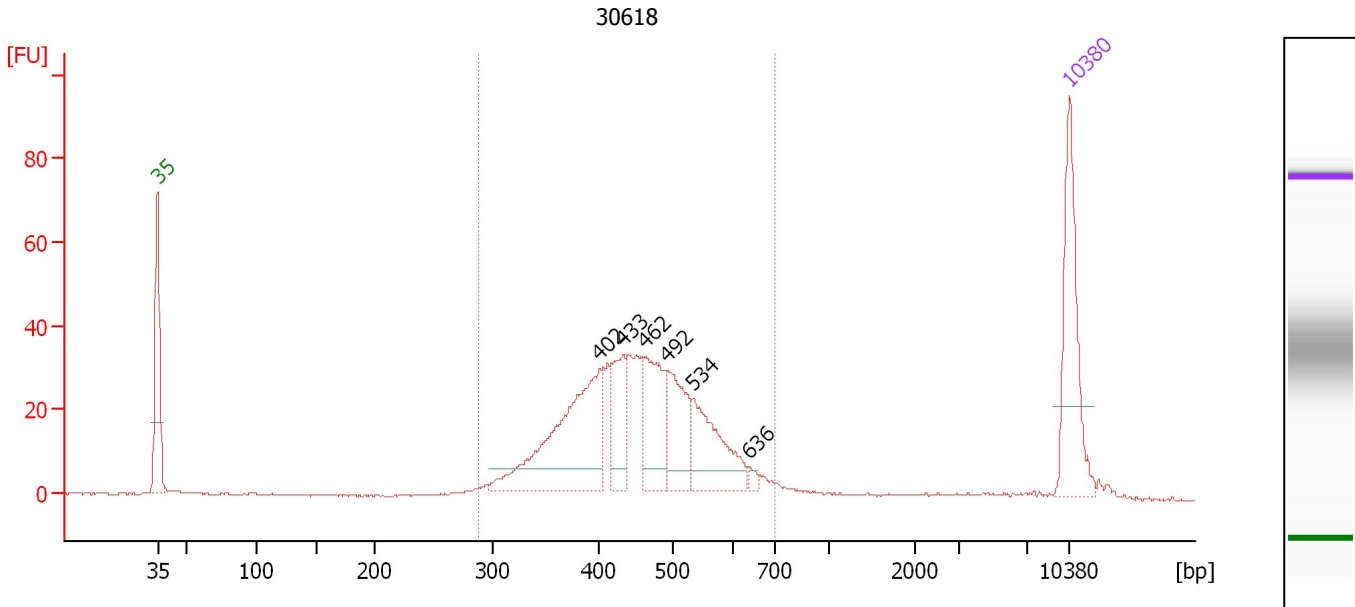
Peak table for Ladder

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	45.23	50	150.00	4,545.5	Ladder Peak
3	50.62	100	150.00	2,272.7	Ladder Peak
4	55.17	150	150.00	1,515.2	Ladder Peak
5	59.72	200	150.00	1,136.4	Ladder Peak
6	68.65	300	150.00	757.6	Ladder Peak
7	76.84	400	150.00	568.2	Ladder Peak
8	82.53	500	150.00	454.5	Ladder Peak
9	87.22	600	150.00	378.8	Ladder Peak
10	90.41	700	150.00	324.7	Ladder Peak
11	94.48	1,000	150.00	227.3	Ladder Peak
12	101.18	2,000	150.00	113.6	Ladder Peak
13	104.55	3,000	150.00	75.8	Ladder Peak
14	109.80	7,000	150.00	32.5	Ladder Peak
15	113.00	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 30618

Number of peaks found: 6 Corr. Area 1: 546.9
 Noise: 0.2

Peak table for sample 1 : 30618

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.93	402	169.62	640.0	
3	78.72	433	50.77	177.6	
4	80.34	462	75.98	249.4	
5	82.09	492	66.56	204.9	
6	84.11	534	74.47	211.4	
7	88.35	636	4.84	11.5	
8	113.00	10,380	75.00	10.9	Upper Marker

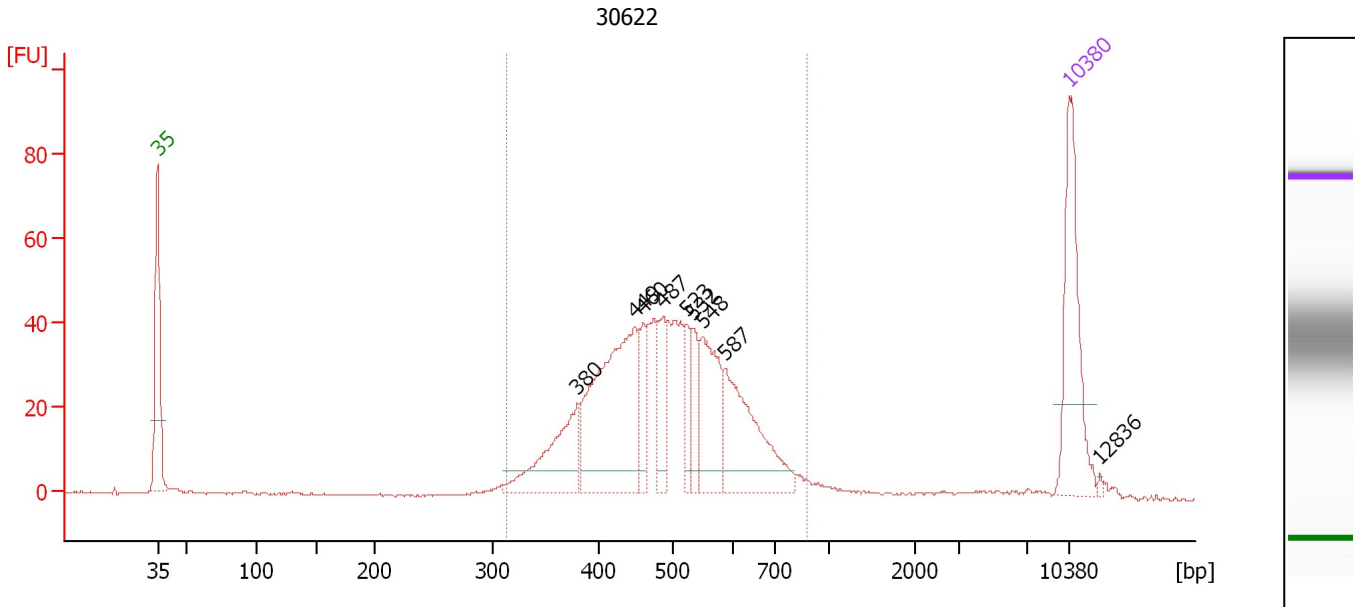
Region table for sample 1 : 30618

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
288	702	455	2,063.2	594.00	546.9	92	17.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 30622

Number of peaks found: 9 Corr. Area 1: 702.3
 Noise: 0.2

Peak table for sample 2 : 30622

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	75.24	380	78.24	311.6	
3	79.62	449	180.47	609.2	
4	80.28	460	28.91	95.1	
5	81.77	487	36.35	113.2	
6	83.61	523	27.21	78.8	
7	84.05	532	27.63	78.7	
8	84.79	548	70.59	195.1	
9	86.59	587	96.20	248.5	
10	113.00	10,380	75.00	10.9	Upper Marker
11	115.32	12,836	0.00	0.0	

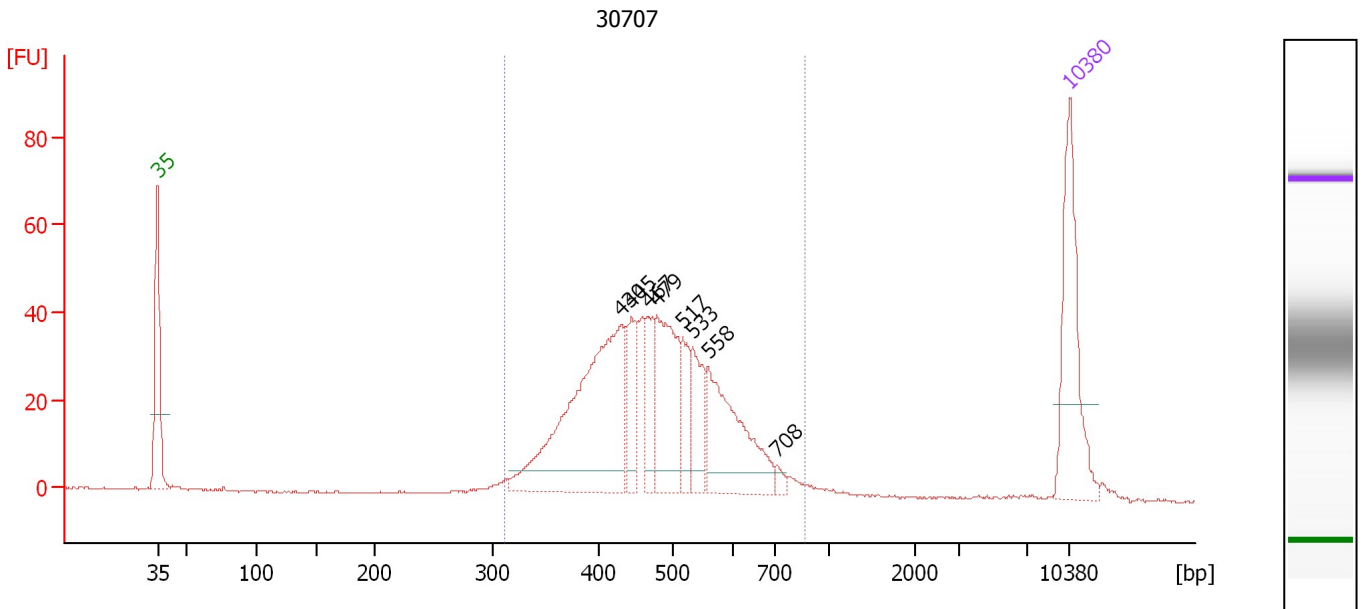
Region table for sample 2 : 30622

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
313	877	496	2,229.8	694.99	702.3	94	19.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 30707

Number of peaks found: 8 Corr. Area 1: 655.7
 Noise: 0.2

Peak table for sample 3 : 30707

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	78.55	430	221.49	780.3	
3	79.39	445	39.71	135.3	
4	80.63	467	33.22	107.9	
5	81.33	479	91.39	289.1	
6	83.32	517	28.66	84.0	
7	84.07	533	40.74	115.8	
8	85.26	558	99.32	269.5	
9	90.52	708	5.36	11.5	
10	113.00	10,380	75.00	10.9	Upper Marker

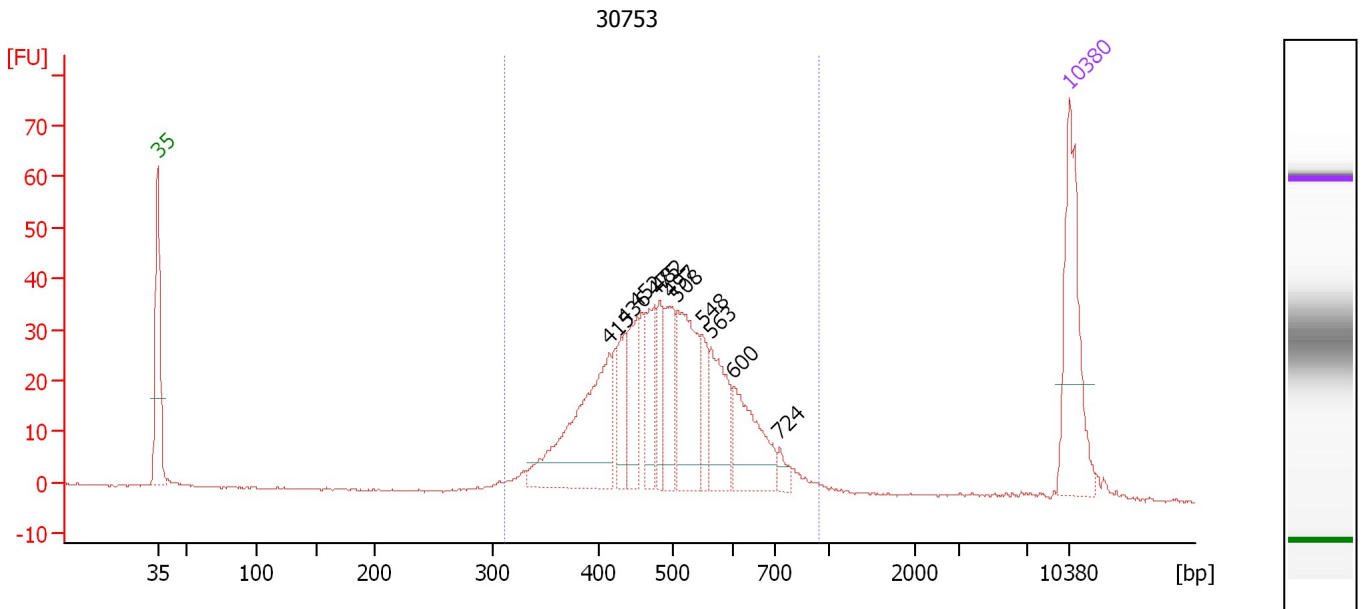
Region table for sample 3 : 30707

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
312	865	481	2,106.7	638.54	655.7	96	19.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 30753

Number of peaks found: 11 Corr. Area 1: 574.7
 Noise: 0.2

Peak table for sample 4 : 30753

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	77.69	415	137.47	502.0	
3	78.89	436	34.79	120.9	
4	79.79	452	39.85	133.6	
5	81.13	475	42.48	135.4	
6	81.49	482	31.41	98.8	
7	82.34	497	47.03	143.5	
8	82.92	508	83.45	248.8	
9	84.79	548	26.88	74.3	
10	85.46	563	53.92	145.2	
11	87.21	600	59.70	150.8	
12	90.74	724	8.45	17.7	
13	113.00	10,380	75.00	10.9	Upper Marker

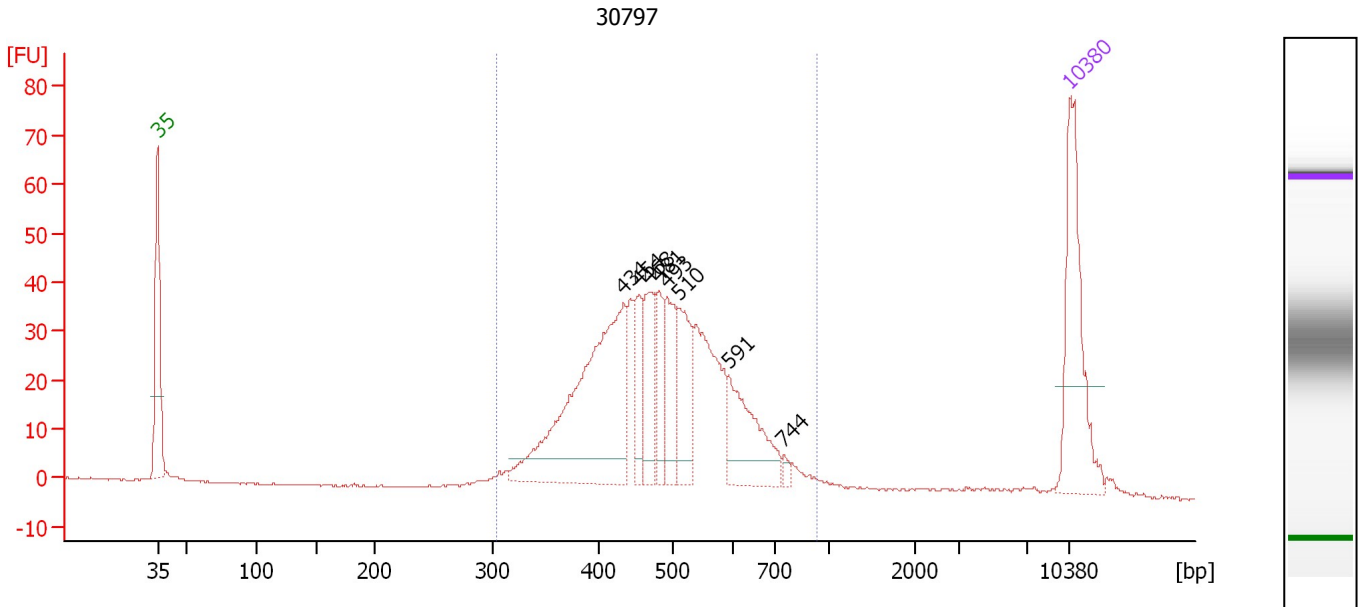
Region table for sample 4 : 30753

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
311	943	500	2,134.5	670.81	574.7	95	20.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 30797

Number of peaks found: 8 Corr. Area 1: 655.0
 Noise: 0.2

Peak table for sample 5 : 30797

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	78.75	434	220.97	772.3	
3	79.92	454	32.56	108.6	
4	80.69	468	46.95	152.1	
5	81.46	481	32.47	102.2	
6	82.14	493	46.18	141.9	
7	83.00	510	50.22	149.2	
8	86.80	591	65.58	168.1	
9	91.01	744	3.99	8.1	
10	113.00	10,380	75.00	10.9	Upper Marker

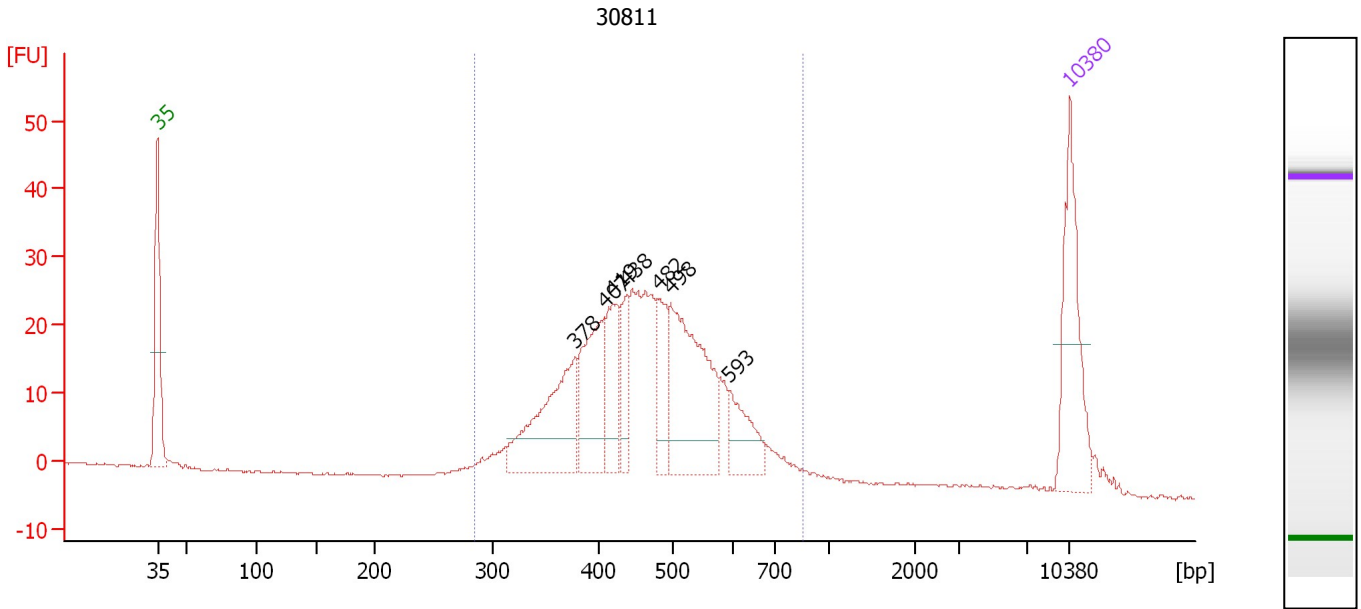
Region table for sample 5 : 30797

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
304	940	491	2,221.9	682.81	655.0	95	20.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 30811

Number of peaks found: 7 Corr. Area 1: 472.7
 Noise: 0.2

Peak table for sample 6 : 30811

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	75.07	378	116.47	466.5	
3	77.25	407	87.16	324.3	
4	77.93	419	53.05	191.8	
5	78.98	438	33.56	116.2	
6	81.48	482	41.08	129.2	
7	82.39	498	147.32	448.7	
8	86.89	593	39.93	102.0	
9	113.00	10,380	75.00	10.9	Upper Marker

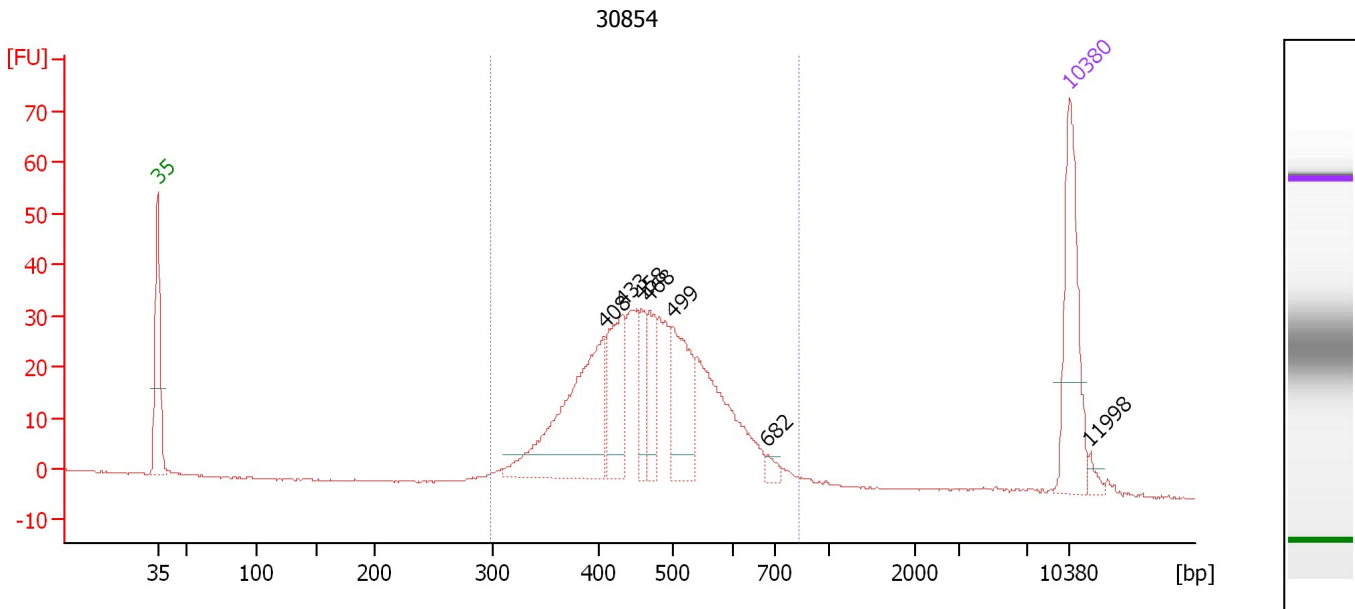
Region table for sample 6 : 30811

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
286	858	470	2,560.9	752.84	472.7	94	20.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 30854

Number of peaks found: 7 Corr. Area 1: 529.4
 Noise: 0.1

Peak table for sample 7 : 30854

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	77.30	408	169.86	630.5	
3	78.70	433	75.09	263.0	
4	80.13	458	32.54	107.7	
5	80.74	468	38.94	126.0	
6	82.50	499	80.52	244.3	
7	89.82	682	6.99	15.5	
8	113.00	10,380	75.00	10.9	Upper Marker
9	114.53	11,998	0.00	0.0	

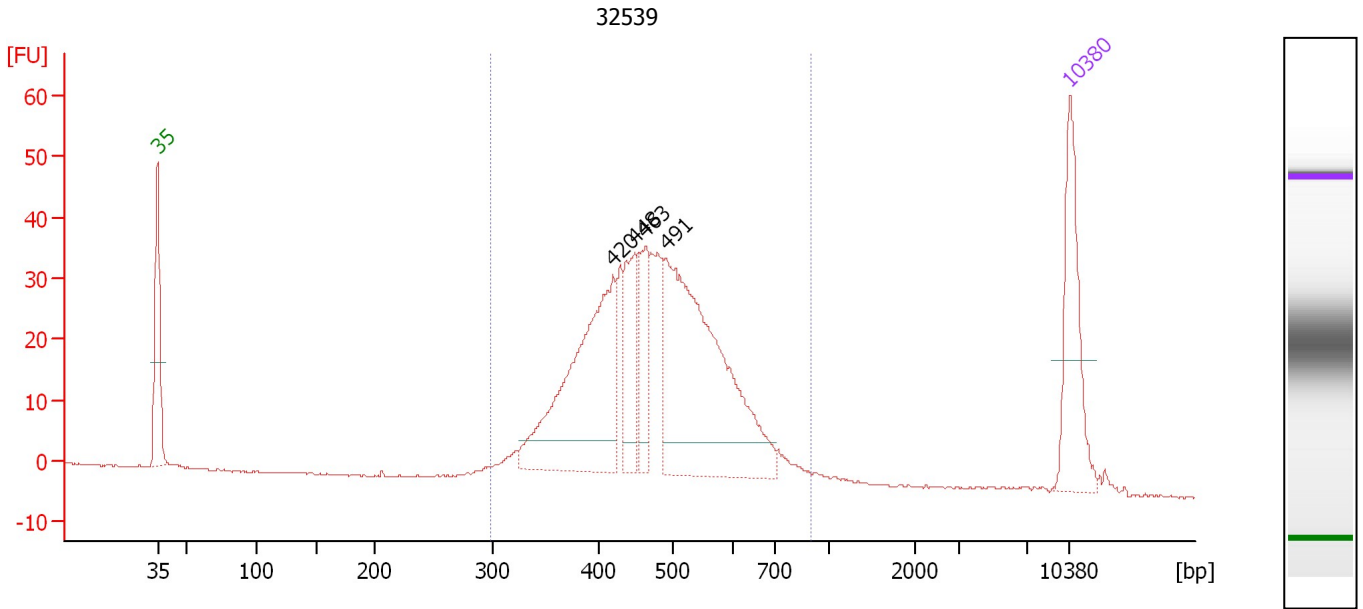
Region table for sample 7 : 30854

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
299	835	474	2,280.7	682.98	529.4	94	18.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 32539

Number of peaks found: 4 Corr. Area 1: 581.0
 Noise: 0.1

Peak table for sample 8 : 32539

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	77.95	420	234.16	845.6	
3	79.60	448	69.45	234.7	
4	80.44	463	59.12	193.4	
5	82.03	491	313.85	967.9	
6	113.00	10,380	75.00	10.9	Upper Marker

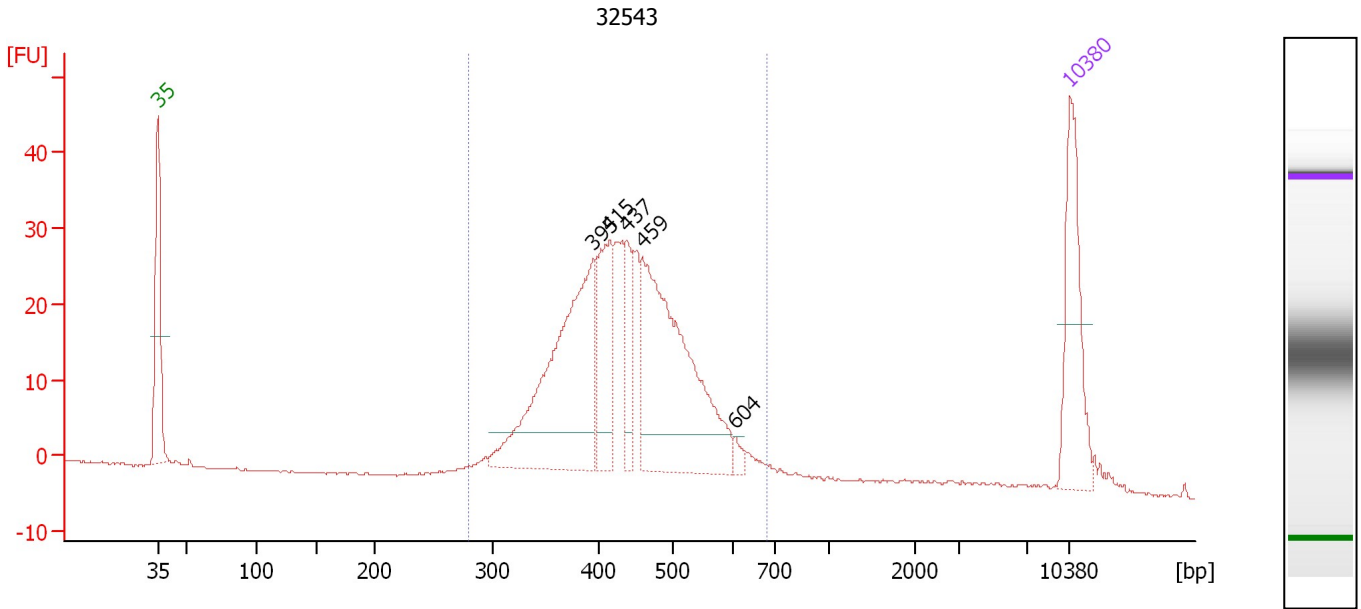
Region table for sample 8 : 32539

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
299	899	481	2,782.6	842.51	581.0	97	19.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
 Modified: 11/8/2013 4:16:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 32543

Number of peaks found: 5 Corr. Area 1: 447.7
 Noise: 0.1

Peak table for sample 9 : 32543

Peak	Aligned Migration Time [s]	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	43.00	35	125.00	5,411.3	Lower Marker
2	76.46	395	245.84	942.0	
3	77.69	415	85.64	312.7	
4	78.97	437	41.05	142.2	
5	80.20	459	254.42	839.8	
6	87.33	604	7.02	17.6	
7	113.00	10,380	75.00	10.9	Upper Marker

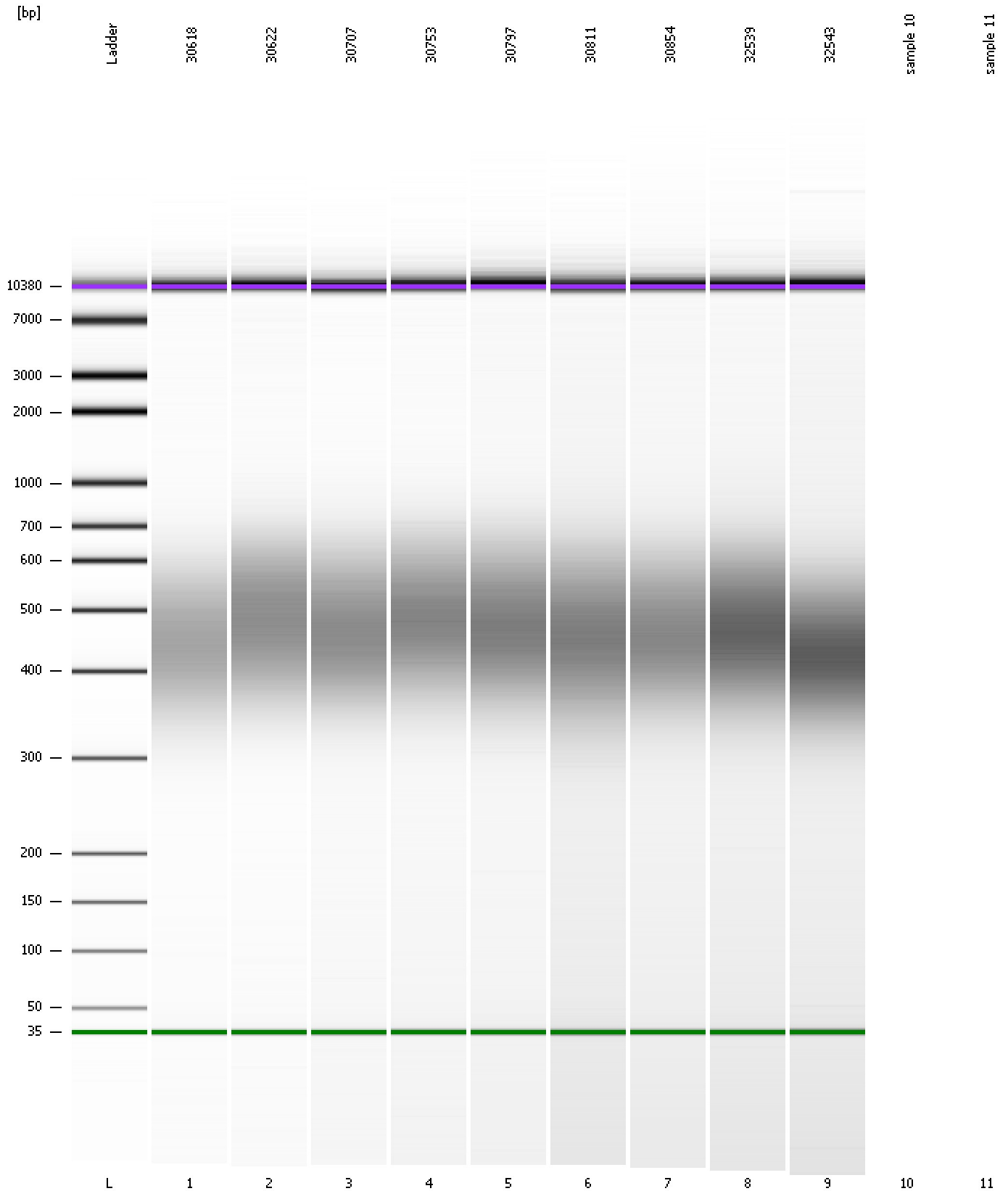
Region table for sample 9 : 32543

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
279	682	440	2,879.1	806.17	447.7	94	16.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
Modified: 11/8/2013 4:16:36 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-11-08\2013-11-08_001.xad

Created: 11/8/2013 3:39:11 PM
Modified: 11/8/2013 4:16:36 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.