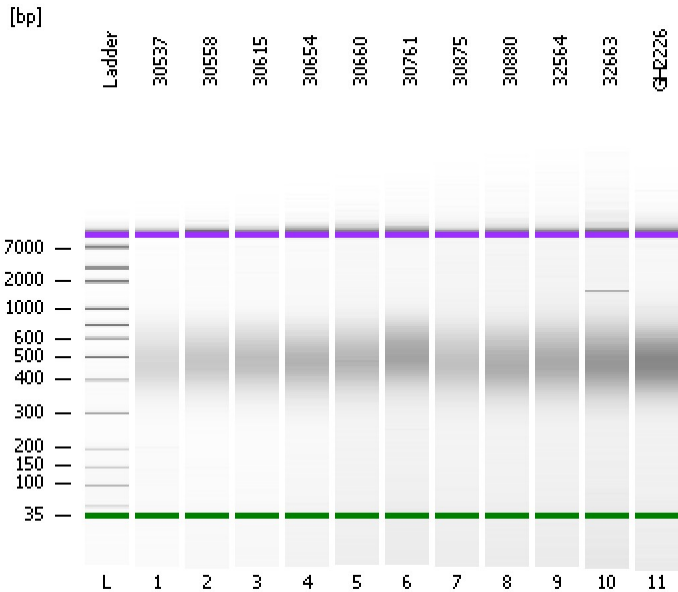


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
Modified: 10/25/2013 4:09:22 PM

Electrophoresis File Run Summary



Instrument Information:

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

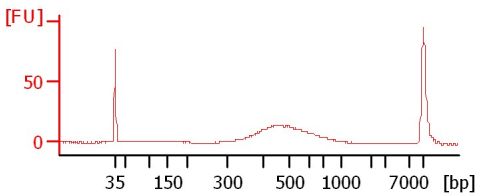
Assay Information:

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

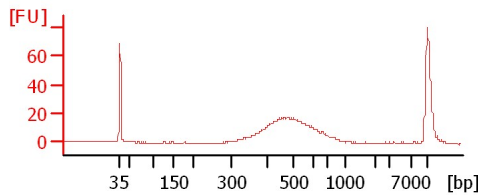
Chip Information:

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

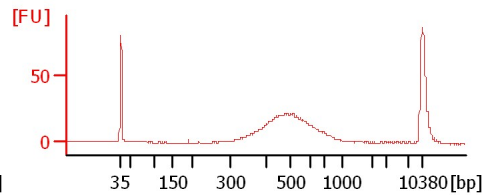
30537



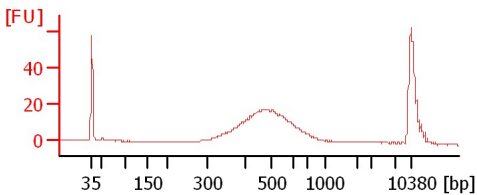
30558



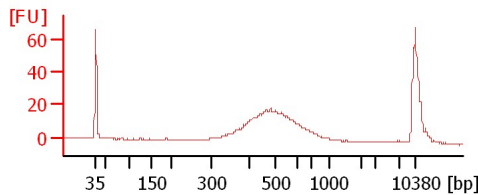
30615



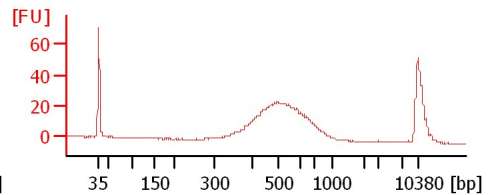
30654



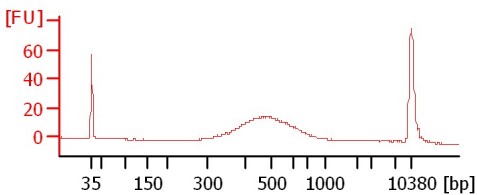
30660



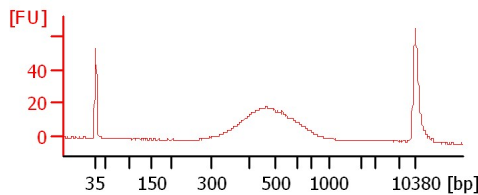
30761



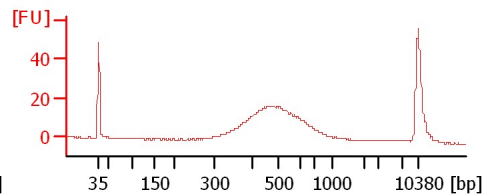
30875



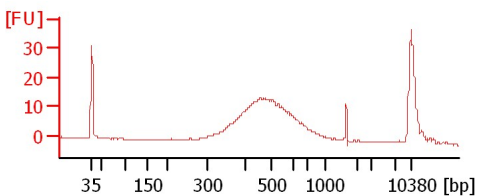
30880



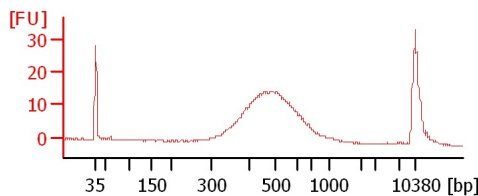
32564



32663



GH2226



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
Modified: 10/25/2013 4:09:22 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
30537		<input type="checkbox"/>	✓			
30558		<input type="checkbox"/>	✓			
30615		<input type="checkbox"/>	✓			
30654		<input type="checkbox"/>	✓			
30660		<input type="checkbox"/>	✓			
30761		<input type="checkbox"/>	✓			
30875		<input type="checkbox"/>	✓			
30880		<input type="checkbox"/>	✓			
32564		<input type="checkbox"/>	✓			
32663		<input type="checkbox"/>	✓			
GH2226		<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\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
Modified: 10/25/2013 4:09:22 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

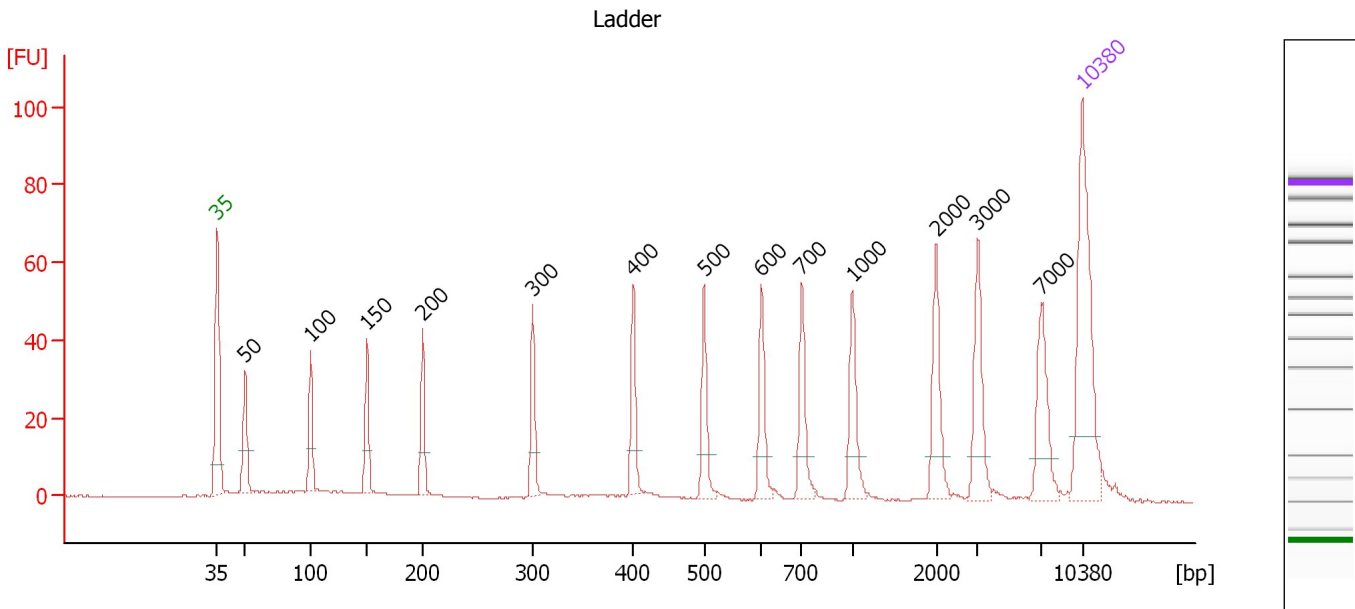
Ladder

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\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

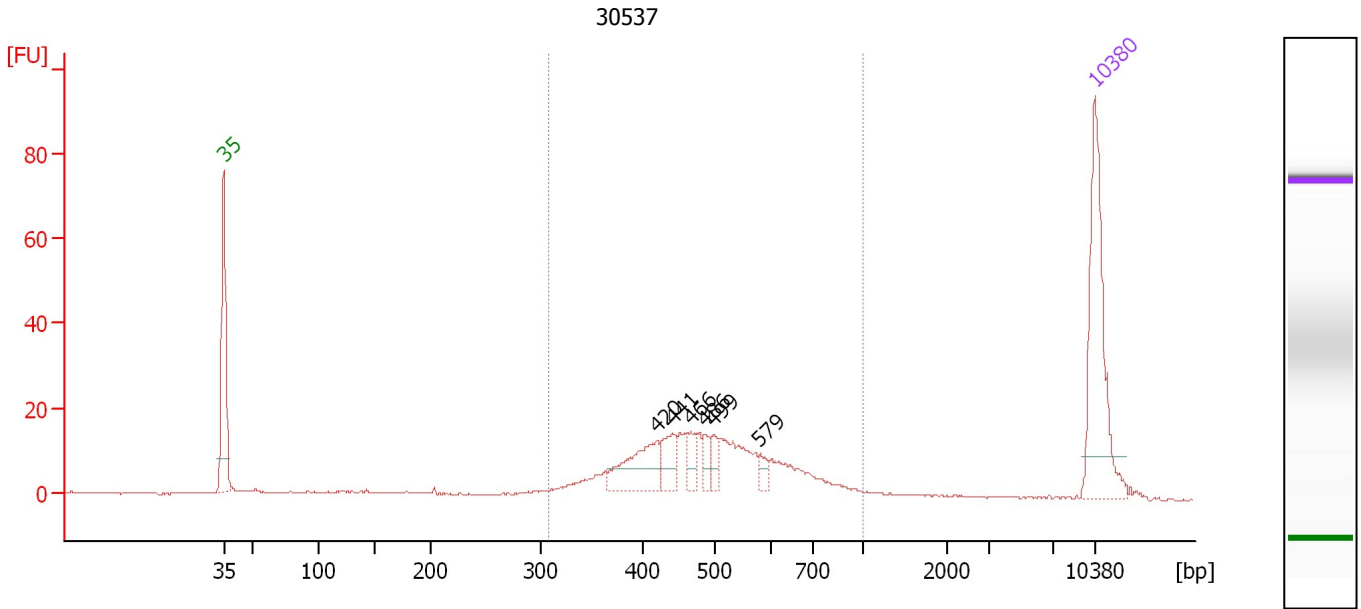
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 30537

Number of peaks found: 6 Corr. Area 1: 266.1
 Noise: 0.2

Peak table for sample 1 : 30537

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	420	46.15	166.4	
3	441	21.08	72.4	
4	466	11.74	38.2	
5	486	9.74	30.4	
6	499	9.46	28.7	
7	579	6.99	18.3	
8	10,380	75.00	10.9	Upper Marker

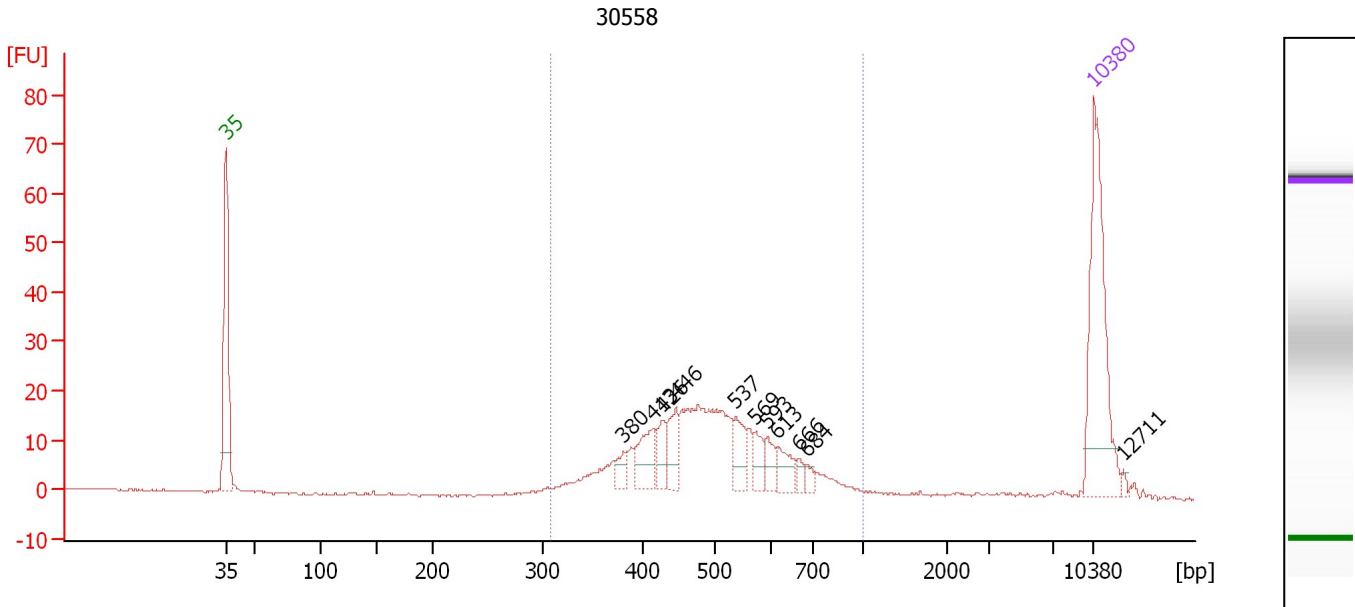
Region table for sample 1 : 30537

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
307	1,000	504	830.0	258.14	266.1	86	23.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 30558

Number of peaks found: 11 Corr. Area 1: 292.6
 Noise: 0.2

Peak table for sample 2 : 30558

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	380	8.35	33.3	
3	413	26.00	95.4	
4	426	14.07	50.0	
5	446	21.14	71.9	
6	537	18.34	51.8	
7	569	12.46	33.1	
8	593	10.60	27.1	
9	613	13.07	32.3	
10	666	4.53	10.3	
11	684	4.55	10.1	
12	10,380	75.00	10.9	Upper Marker
13	12,711	0.00	0.0	

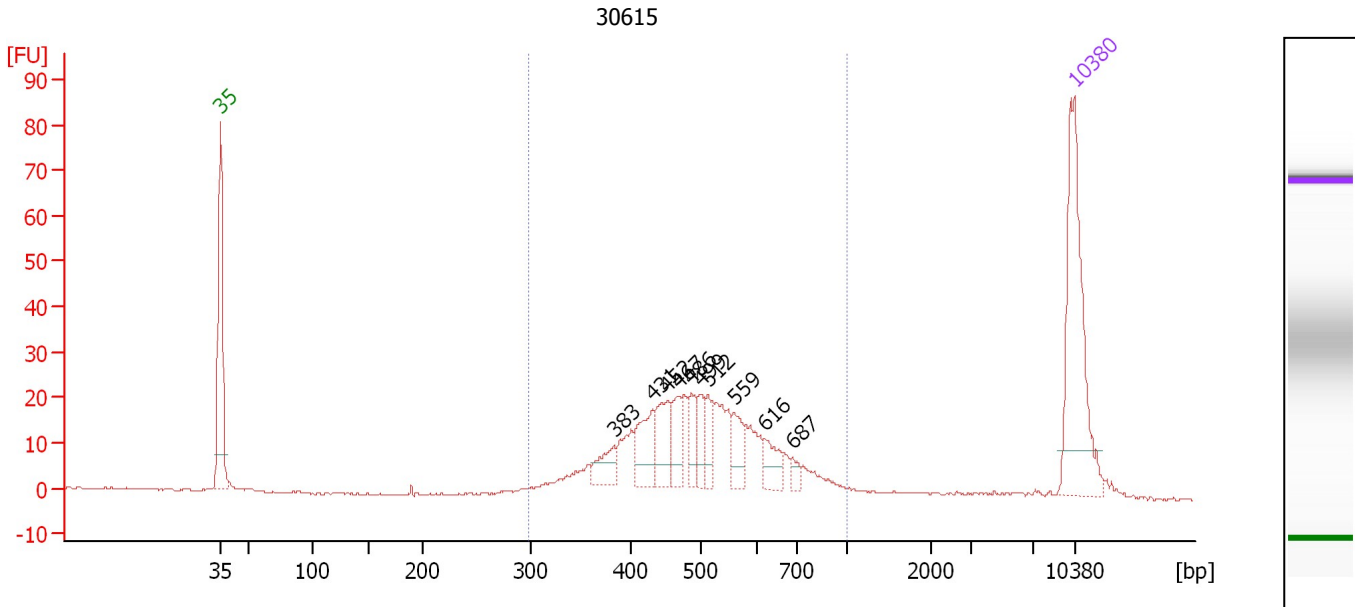
Region table for sample 2 : 30558

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
308	1,000	505	997.5	313.36	292.6	93	22.2	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 30615

Number of peaks found: 10 Corr. Area 1: 367.8
 Noise: 0.3

Peak table for sample 3 : 30615

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	383	17.23	68.2	
3	431	28.94	101.8	
4	452	29.02	97.3	
5	467	18.83	61.1	
6	486	16.04	50.0	
7	499	15.02	45.6	
8	512	13.35	39.5	
9	559	16.95	46.0	
10	616	14.36	35.3	
11	687	5.47	12.1	
12	10,380	75.00	10.9	Upper Marker

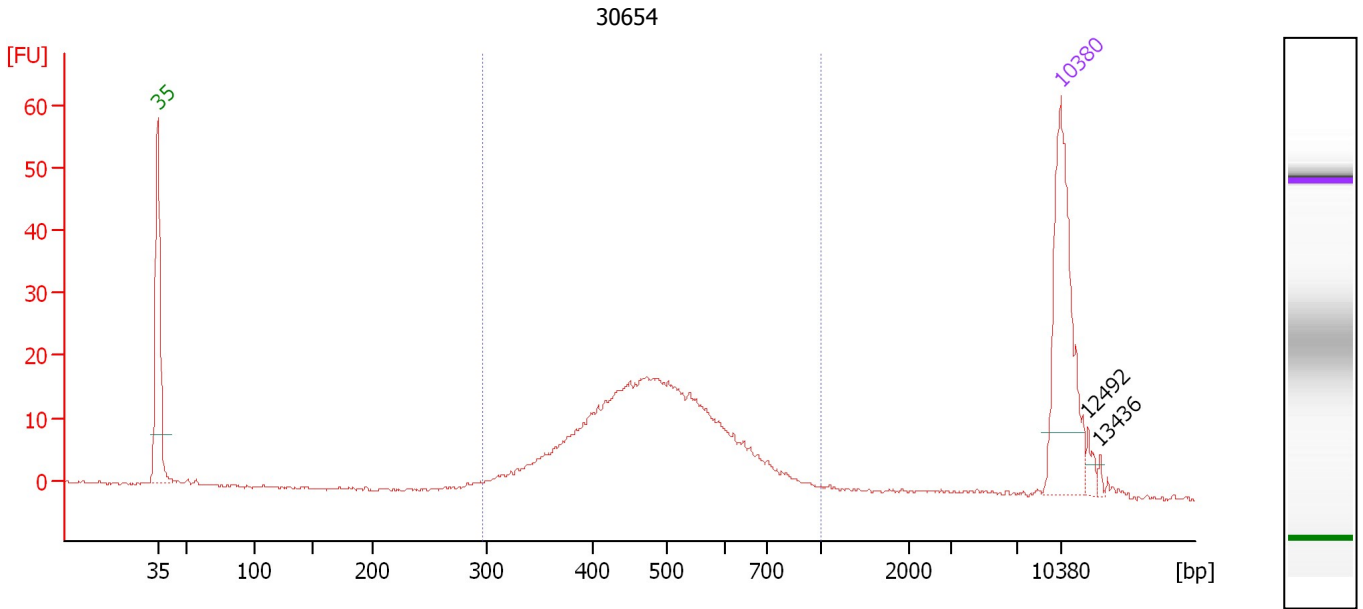
Region table for sample 3 : 30615

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
298	1,000	508	1,041.1	327.99	367.8	94	22.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 30654

Number of peaks found: 2 Corr. Area 1: 301.4
 Noise: 0.3

Peak table for sample 4 : 30654

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
3	12,492	0.00	0.0	
4	13,436	0.00	0.0	

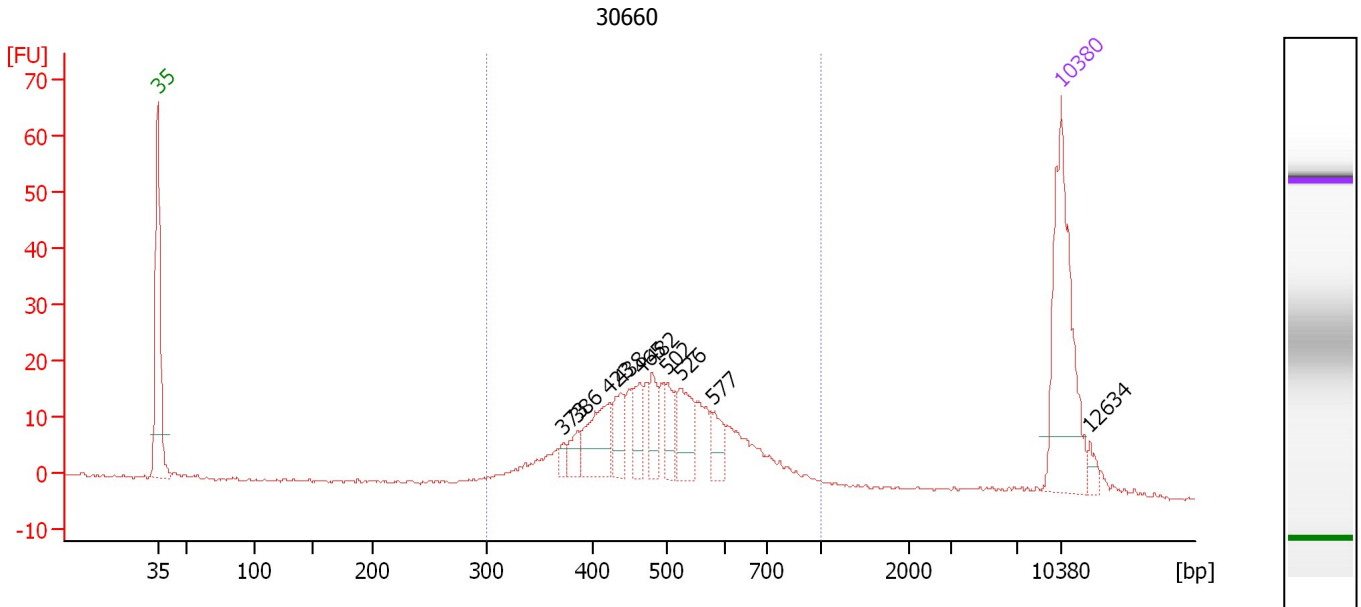
Region table for sample 4 : 30654

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	1,000	497	1,142.6	352.83	301.4	90	22.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 30660

Number of peaks found: 10 Corr. Area 1: 312.9
 Noise: 0.3

Peak table for sample 5 : 30660

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	373	5.10	20.7	
3	386	10.72	42.1	
4	423	35.26	126.2	
5	438	20.60	71.2	
6	465	19.88	64.8	
7	482	17.58	55.3	
8	502	17.11	51.7	
9	526	27.18	78.3	
10	577	14.20	37.3	
11	10,380	75.00	10.9	Upper Marker
12	12,634	0.00	0.0	

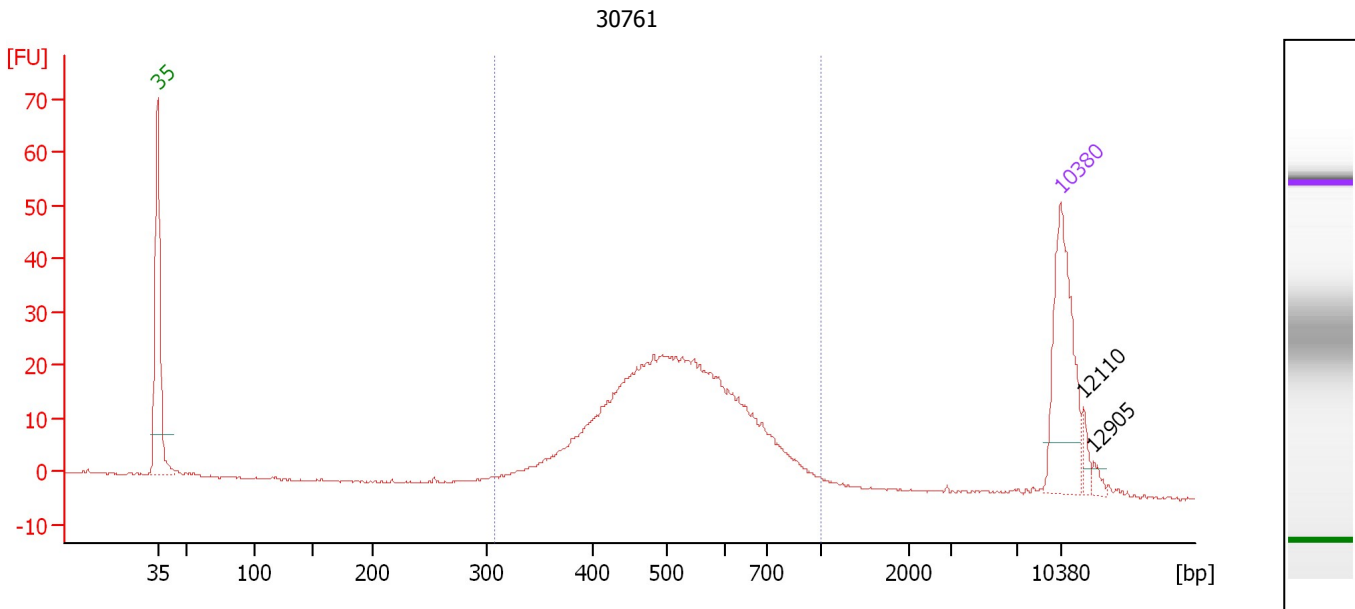
Region table for sample 5 : 30660

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
299	1,000	508	1,068.5	336.26	312.9	90	23.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 30761

Number of peaks found: 2 Corr. Area 1: 409.2
 Noise: 0.2

Peak table for sample 6 : 30761

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
3	12,110	0.00	0.0	
4	12,905	0.00	0.0	

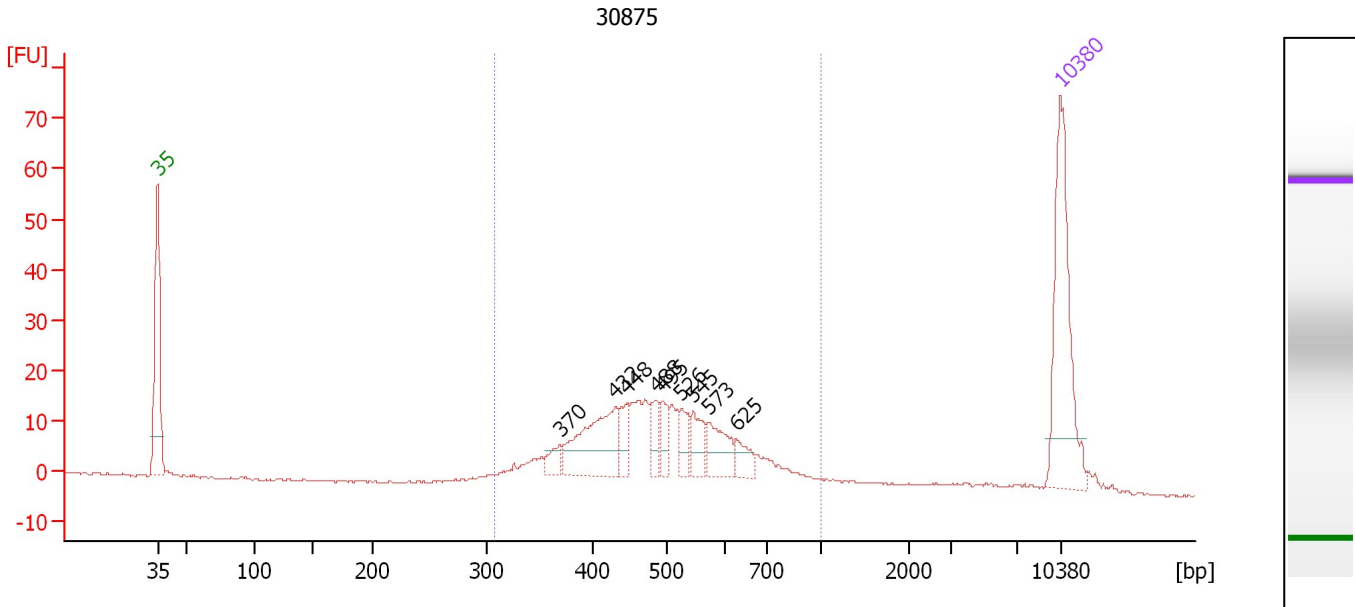
Region table for sample 6 : 30761

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
308	1,000	530	1,574.5	517.26	409.2	90	22.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 30875

Number of peaks found: 9 Corr. Area 1: 283.7
 Noise: 0.2

Peak table for sample 7 : 30875

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	370	10.73	43.9	
3	432	62.48	219.3	
4	448	16.80	56.9	
5	488	15.32	47.6	
6	495	12.87	39.4	
7	526	15.23	43.8	
8	545	16.94	47.1	
9	573	23.58	62.3	
10	625	11.62	28.1	
11	10,380	75.00	10.9	Upper Marker

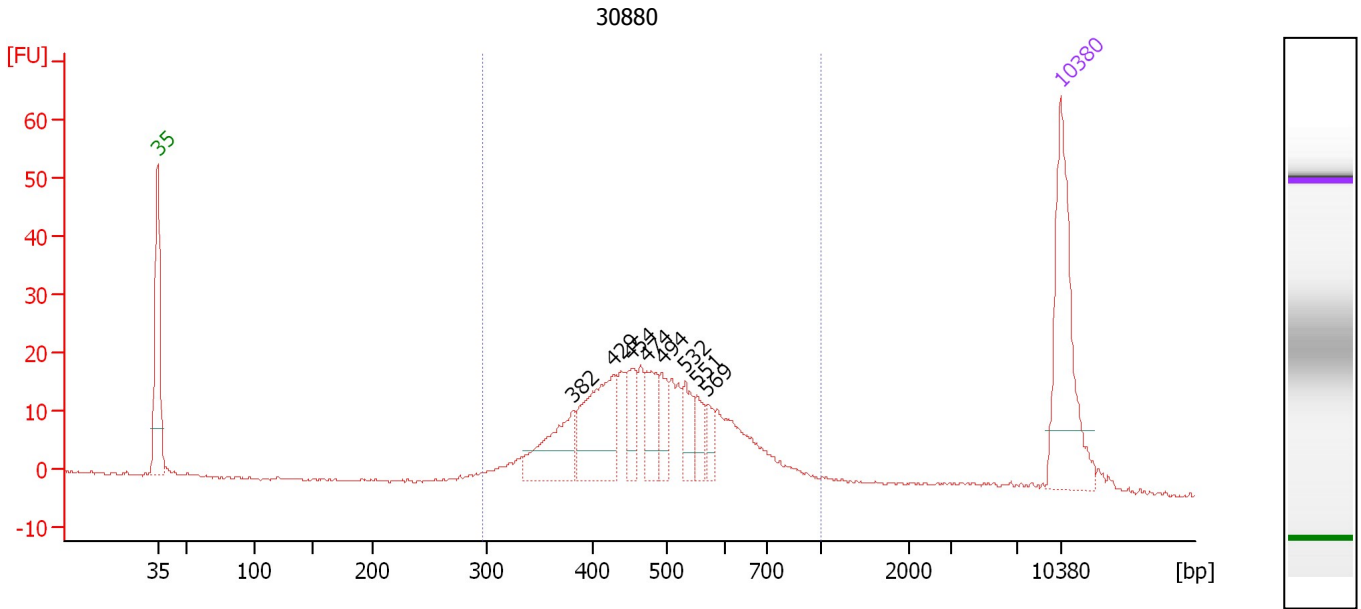
Region table for sample 7 : 30875

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
308	1,000	505	1,052.5	328.34	283.7	89	23.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 30880

Number of peaks found: 8 Corr. Area 1: 338.3
 Noise: 0.2

Peak table for sample 8 : 30880

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	382	50.51	200.4	
3	429	74.59	263.5	
4	454	21.23	70.9	
5	474	28.58	91.4	
6	494	18.15	55.6	
7	532	21.21	60.4	
8	551	13.92	38.3	
9	569	10.83	28.8	
10	10,380	75.00	10.9	Upper Marker

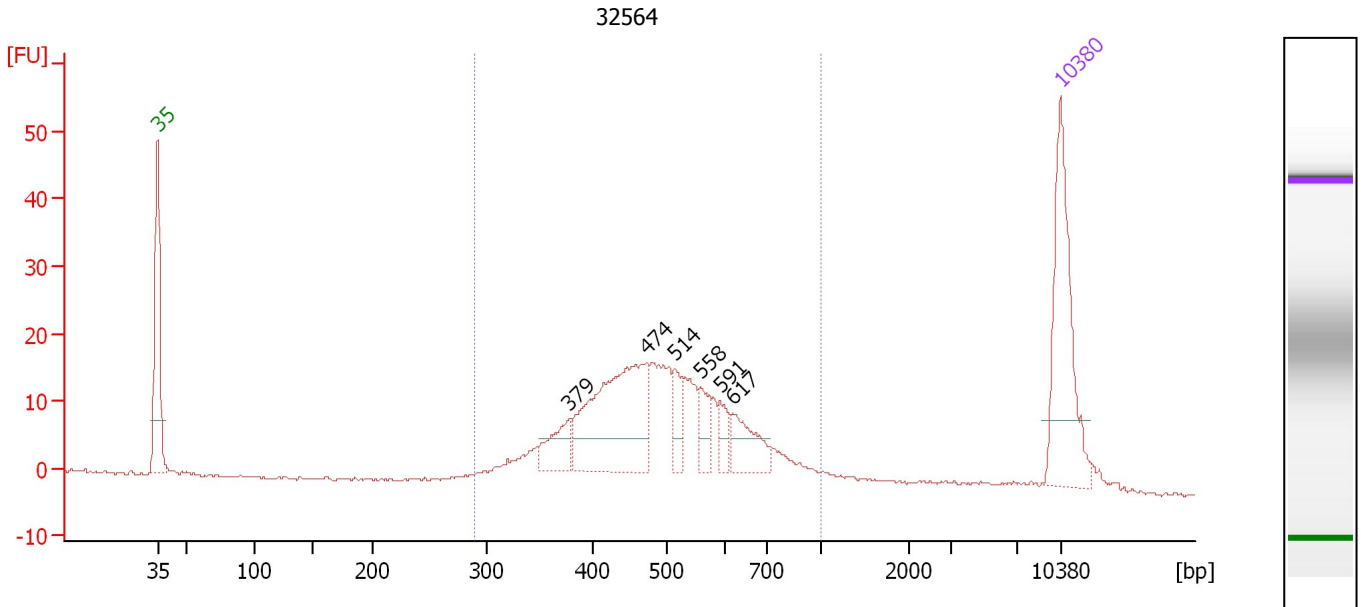
Region table for sample 8 : 30880

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	1,000	496	1,339.3	410.71	338.3	91	23.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 32564

Number of peaks found: 6 Corr. Area 1: 304.4
 Noise: 0.2

Peak table for sample 9 : 32564

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	379	27.94	111.8	
3	474	131.13	419.6	
4	514	18.03	53.1	
5	558	17.26	46.9	
6	591	12.01	30.8	
7	617	27.58	67.7	
8	10,380	75.00	10.9	Upper Marker

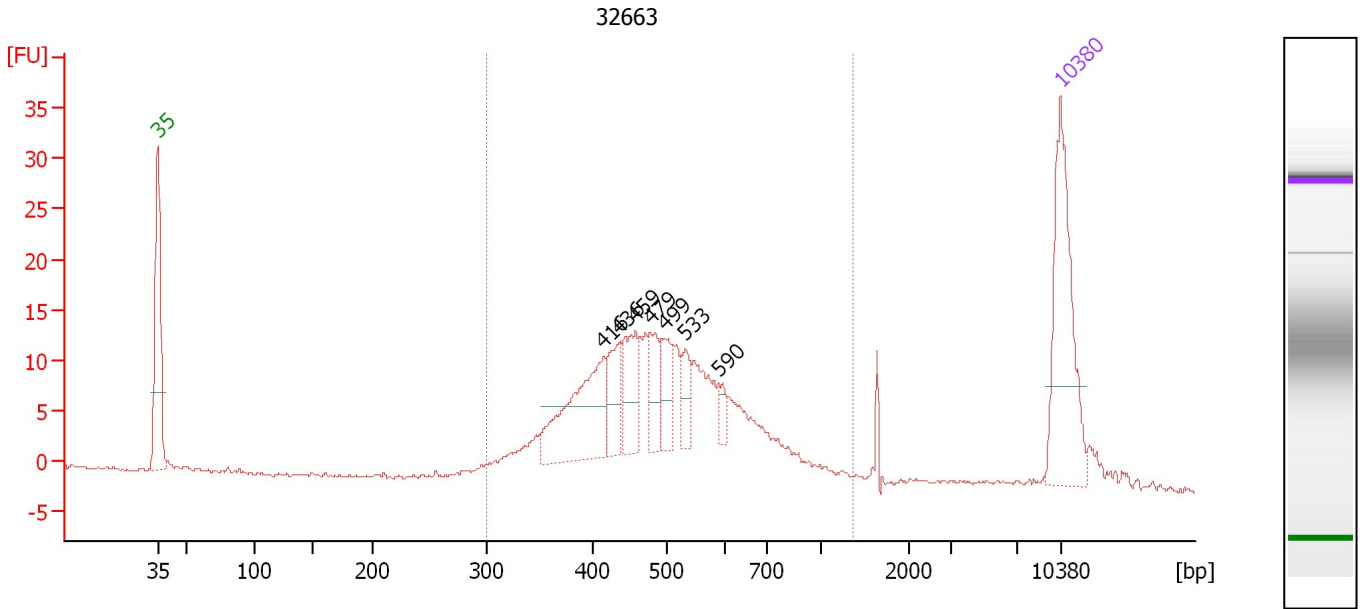
Region table for sample 9 : 32564

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
290	1,000	506	1,372.1	427.31	304.4	91	24.1	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 32663

Number of peaks found: 7 Corr. Area 1: 241.4
 Noise: 0.2

Peak table for sample 10 : 32663

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	416	84.16	306.5	
3	436	26.81	93.2	
4	459	38.77	127.9	
5	479	22.43	70.9	
6	499	23.48	71.3	
7	533	14.90	42.3	
8	590	7.50	19.3	
9	10,380	75.00	10.9	Upper Marker

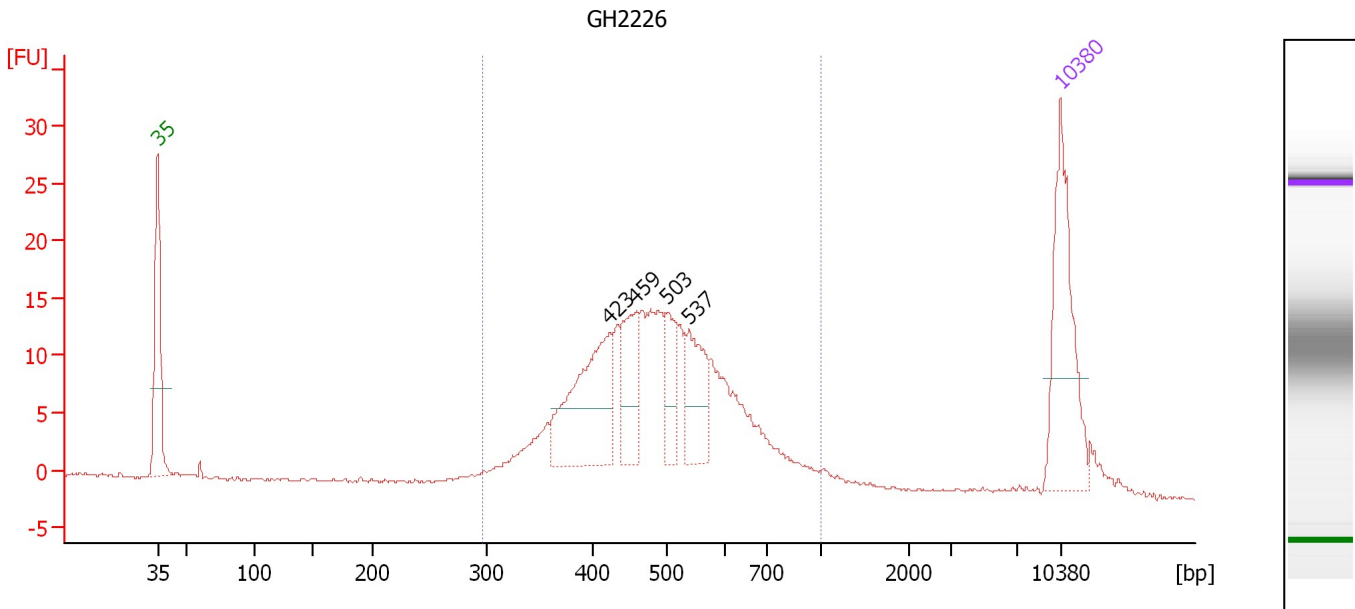
Region table for sample 10 : 32663

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
301	1,375	514	1,542.9	484.16	241.4	91	28.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
 Modified: 10/25/2013 4:09:22 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : GH2226

Number of peaks found: 4 Corr. Area 1: 250.3
 Noise: 0.1

Peak table for sample 11 : GH2226

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	423	106.17	380.0	
3	459	47.10	155.5	
4	503	28.42	85.6	
5	537	46.46	131.0	
6	10,380	75.00	10.9	Upper Marker

Region table for sample 11 : GH2226

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
297	1,000	500	1,775.9	550.58	250.3	94	23.0	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25_004.xad

Created: 10/25/2013 3:22:20 PM
Modified: 10/25/2013 4:09:22 PM

Gel Image

