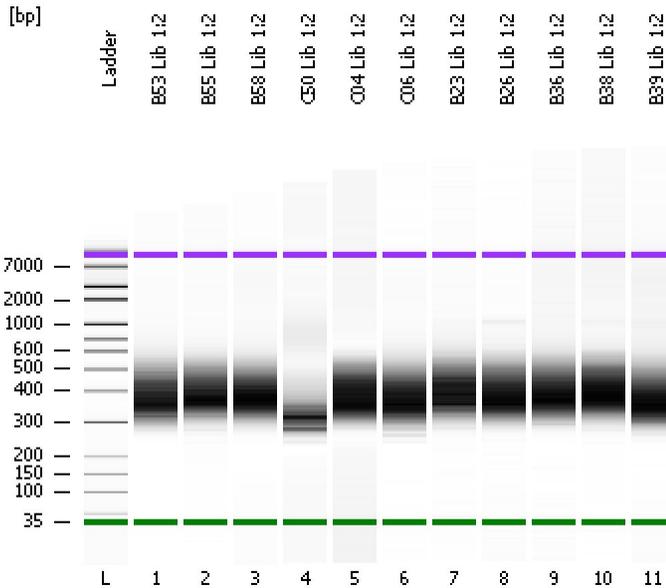


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
Modified: 7/18/2012 1:20:32 PM

Electrophoresis File Run Summary



Instrument Information:

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

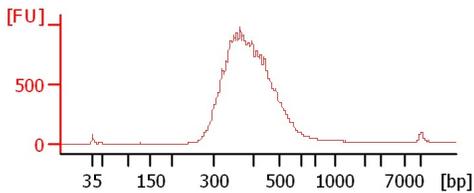
Assay Information:

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

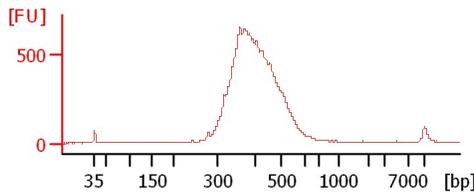
Chip Information:

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

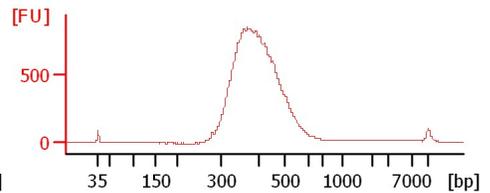
B53 Lib 1:2



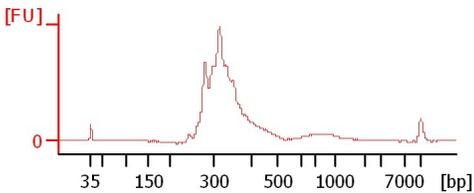
B55 Lib 1:2



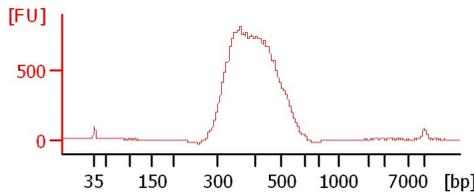
B58 Lib 1:2



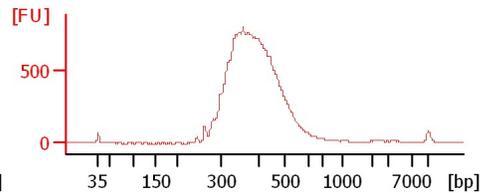
C50 Lib 1:2



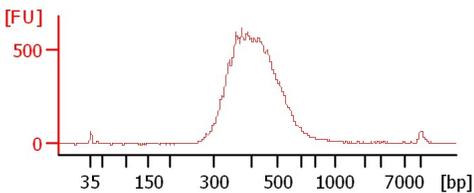
C04 Lib 1:2



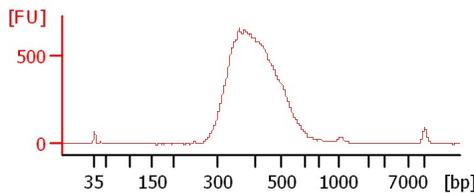
C06 Lib 1:2



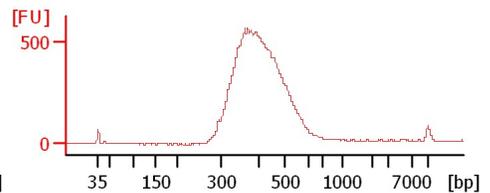
B23 Lib 1:2



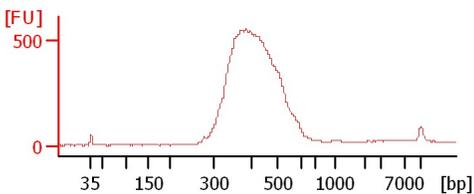
B26 Lib 1:2



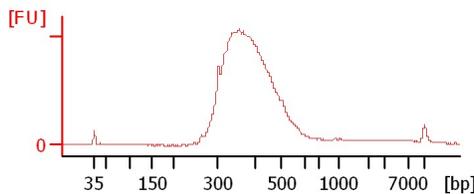
B36 Lib 1:2



B38 Lib 1:2



B39 Lib 1:2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
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B55 Lib 1:2		<input type="checkbox"/>	✓			
B58 Lib 1:2		<input type="checkbox"/>	✓			
C50 Lib 1:2		<input type="checkbox"/>	✓			
C04 Lib 1:2		<input type="checkbox"/>	✓			
C06 Lib 1:2		<input type="checkbox"/>	✓			
B23 Lib 1:2		<input type="checkbox"/>	✓			
B26 Lib 1:2		<input type="checkbox"/>	✓			
B36 Lib 1:2		<input type="checkbox"/>	✓			
B38 Lib 1:2		<input type="checkbox"/>	✓			
B39 Lib 1:2		<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\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
Modified: 7/18/2012 1:20:32 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

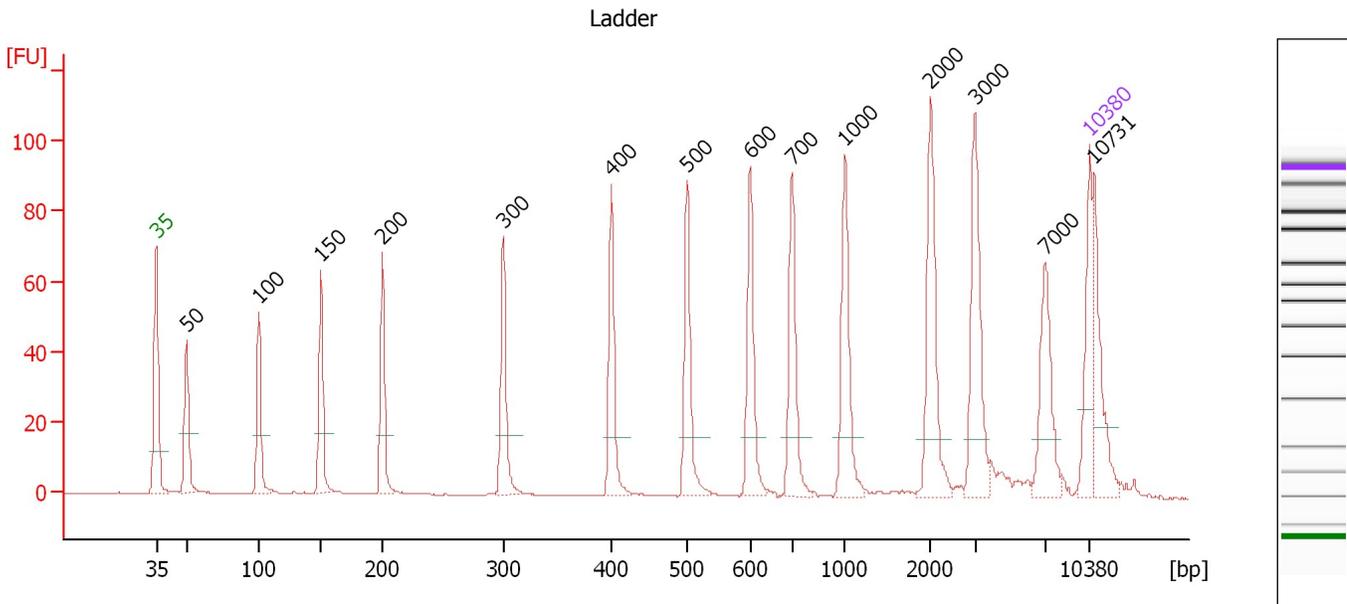
Ladder

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\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

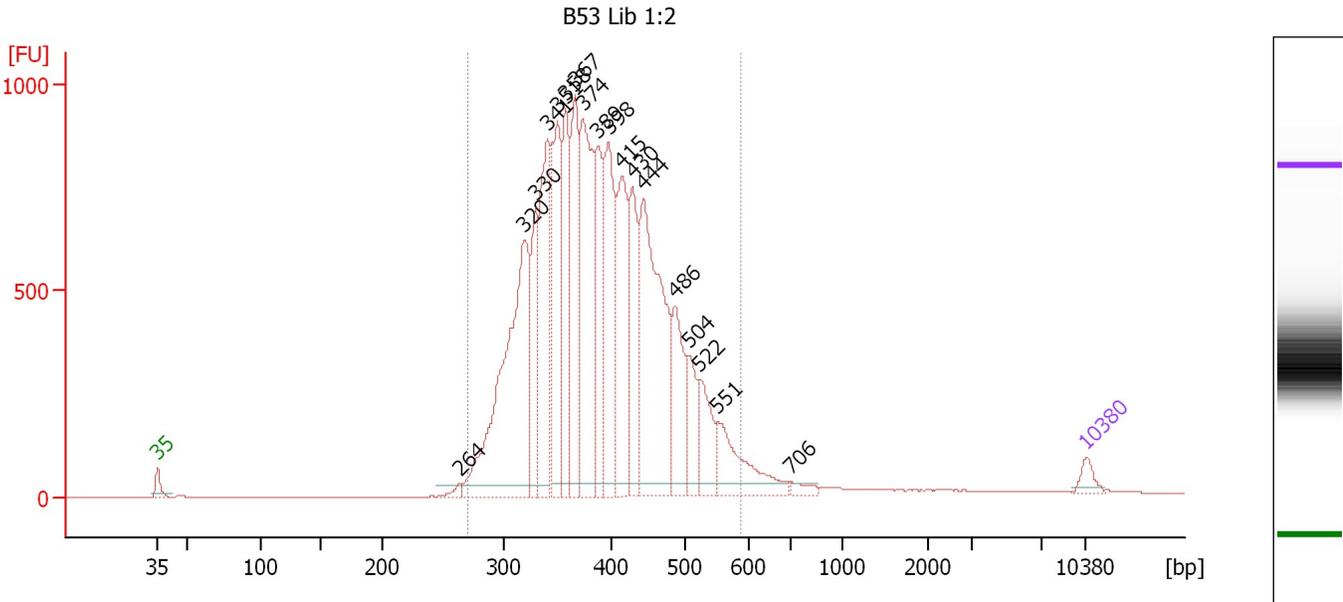
Peak table for Ladder

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
16	10,731	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : B53 Lib 1:2

Height Threshold [FU] : 30

Overall Results for sample 1 : B53 Lib 1:2

Number of peaks found: 18 Corr. Area 1: 14,839.7
 Noise: 0.2

Peak table for sample 1 : B53 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	264	59.10	339.7	
3	320	2,728.81	12,922.9	
4	330	742.38	3,407.2	
5	341	1,322.65	5,870.1	
6	351	1,213.84	5,247.0	
7	358	1,017.00	4,303.9	
8	367	1,155.39	4,768.2	
9	374	1,646.92	6,670.0	
10	389	883.46	3,444.7	
11	398	1,219.38	4,639.2	
12	415	1,113.87	4,065.2	
13	430	813.19	2,867.1	
14	444	2,146.11	7,330.8	
15	486	673.75	2,101.3	
16	504	397.78	1,195.4	
17	522	469.06	1,362.4	
18	551	588.80	1,618.6	
19	706	66.84	143.3	
20	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...

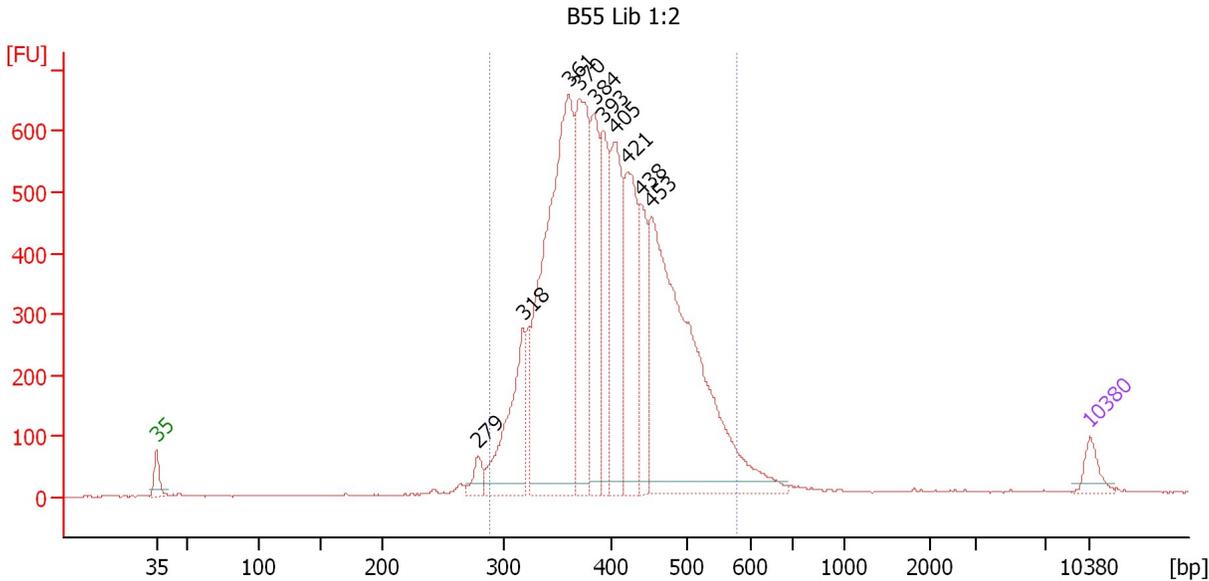
... Region table for sample 1 : B53 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
272	588	395	70,732.8	17,831.70	14,839.7	96	16.6	■

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : B55 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 2 : B55 Lib 1:2

Number of peaks found: 10 Corr. Area 1: 9,416.2
 Noise: 1.0

Peak table for sample 2 : B55 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	279	102.79	557.2	
3	318	716.00	3,408.3	
4	361	2,559.72	10,755.5	
5	370	1,131.81	4,628.7	
6	384	688.51	2,715.2	
7	393	606.82	2,339.5	
8	405	816.92	3,056.7	
9	421	803.91	2,890.2	
10	438	431.55	1,493.0	
11	453	2,497.32	8,354.5	
12	10,380	75.00	10.9	Upper Marker

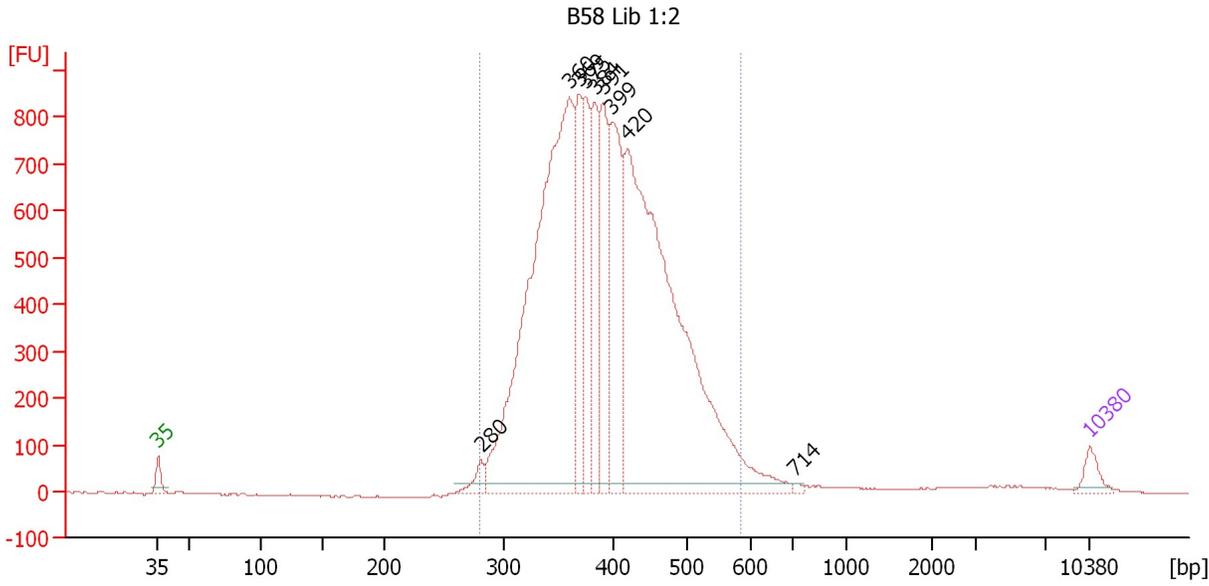
Region table for sample 2 : B55 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
288	579	405	39,440.5	10,251.70	9,416.2	94	15.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : B58 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 3 : B58 Lib 1:2

Number of peaks found: 9 Corr. Area 1: 12,840.9
 Noise: 1.3

Peak table for sample 3 : B58 Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	280	98.85	534.2	
3	360	4,002.65	16,853.2	
4	369	686.72	2,820.7	
5	375	624.97	2,524.7	
6	384	650.37	2,565.6	
7	391	722.12	2,799.3	
8	399	962.06	3,655.6	
9	420	4,132.14	14,906.9	
10	714	16.32	34.6	
11	10,380	75.00	10.9	Upper Marker

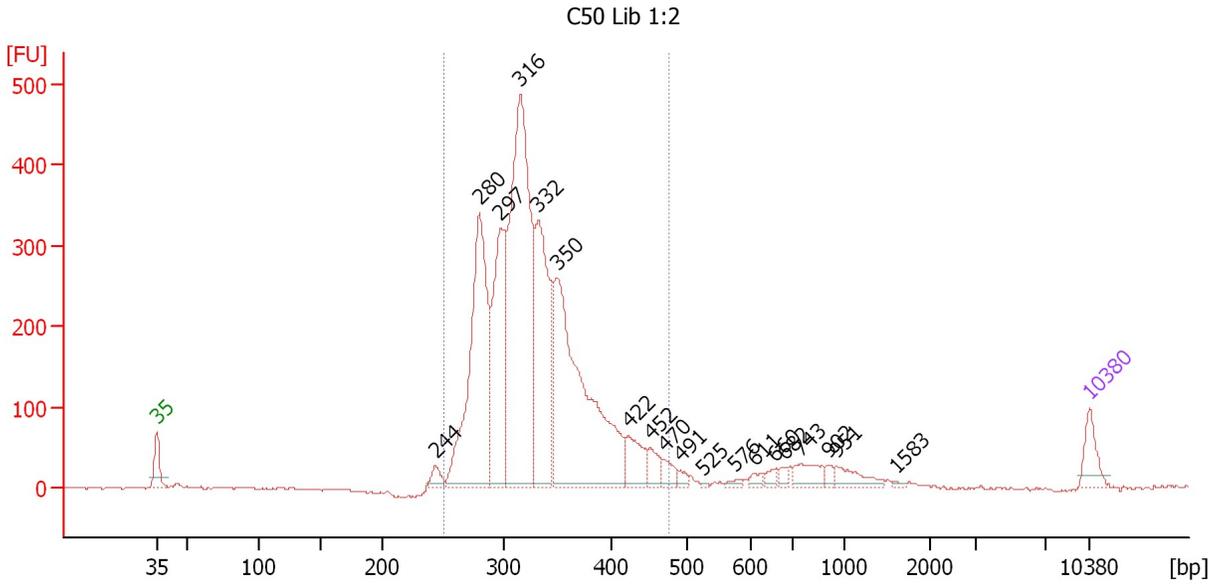
Region table for sample 3 : B58 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
280	584	400	45,523.8	11,673.65	12,840.9	96	15.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C50 Lib 1:2

Number of peaks found: 19 Corr. Area 1: 4,346.2
 Noise: 1.0

Peak table for sample 4 : C50 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	244	49.10	305.5	
3	280	1,108.64	5,992.6	
4	297	682.89	3,479.4	
5	316	1,648.66	7,916.0	
6	332	727.71	3,317.9	
7	350	1,297.98	5,615.5	
8	422	140.52	504.3	
9	452	72.50	243.1	
10	470	54.92	177.0	
11	491	22.25	68.7	
12	525	4.62	13.3	
13	576	13.71	36.1	
14	611	21.50	53.4	
15	660	26.22	60.2	
16	682	22.29	49.5	
17	743	81.78	166.7	
18	902	19.83	33.3	
19	951	70.68	112.6	
20	1,583	6.13	5.9	
21	10,380	75.00	10.9	Upper Marker

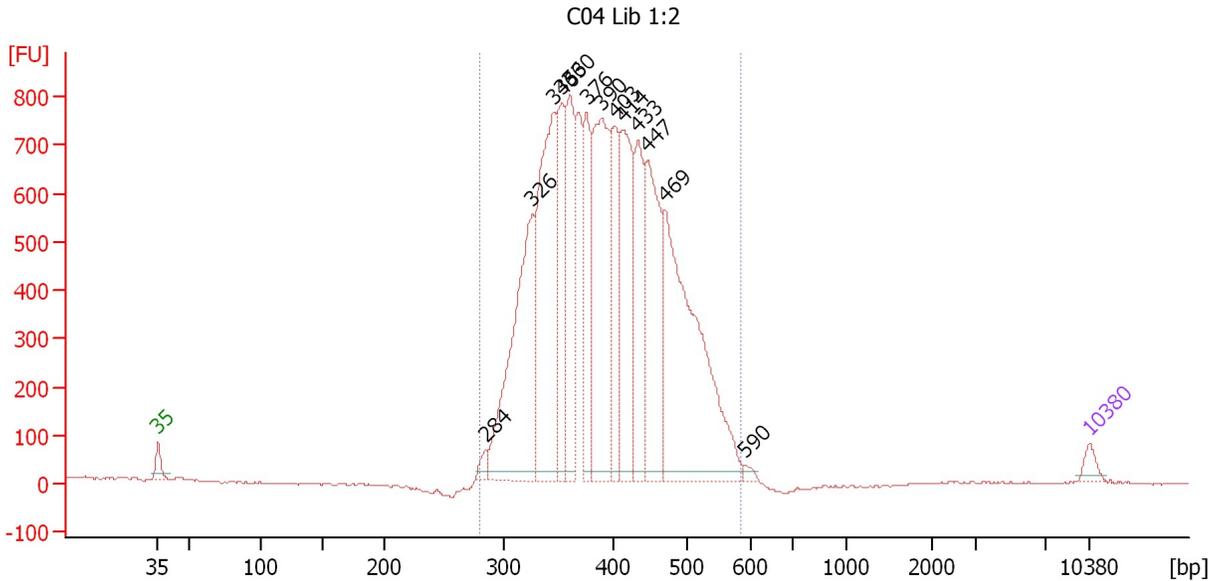
Region table for sample 4 : C50 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
251	477	330	26,662.0	5,687.69	4,346.2	91	13.3	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 5 : C04 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 5 : C04 Lib 1:2

Number of peaks found: 13 Corr. Area 1: 12,866.9
 Noise: 1.7

Peak table for sample 5 : C04 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	284	96.23	513.5	
3	326	2,383.50	11,077.7	
4	346	2,367.21	10,378.5	
5	353	1,001.11	4,293.3	
6	360	1,295.79	5,447.2	
7	376	1,049.85	4,232.1	
8	390	1,949.93	7,573.5	
9	403	845.25	3,179.2	
10	414	1,445.00	5,290.0	
11	433	1,010.53	3,532.6	
12	447	1,432.47	4,855.3	
13	469	3,036.01	9,805.7	
14	590	42.33	108.6	
15	10,380	75.00	10.9	Upper Marker

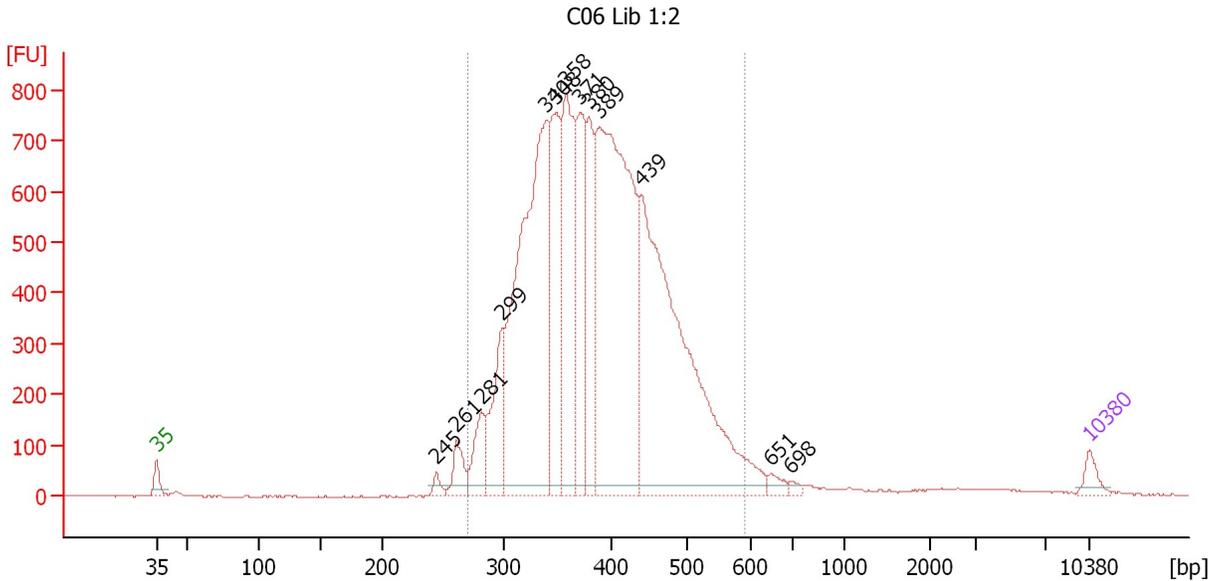
Region table for sample 5 : C04 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
279	583	401	72,332.9	18,560.35	12,866.9	99	16.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : C06 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 6 : C06 Lib 1:2

Number of peaks found: 13 Corr. Area 1: 12,712.5
 Noise: 1.8

Peak table for sample 6 : C06 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	245	63.99	396.3	
3	261	210.73	1,221.2	
4	281	324.85	1,748.5	
5	299	641.18	3,245.1	
6	340	3,469.90	15,471.1	
7	348	1,130.99	4,920.1	
8	358	1,520.56	6,436.0	
9	371	1,009.12	4,118.2	
10	380	788.24	3,145.1	
11	389	3,670.34	14,302.9	
12	439	3,728.73	12,857.6	
13	651	67.06	156.0	
14	698	30.03	65.1	
15	10,380	75.00	10.9	Upper Marker

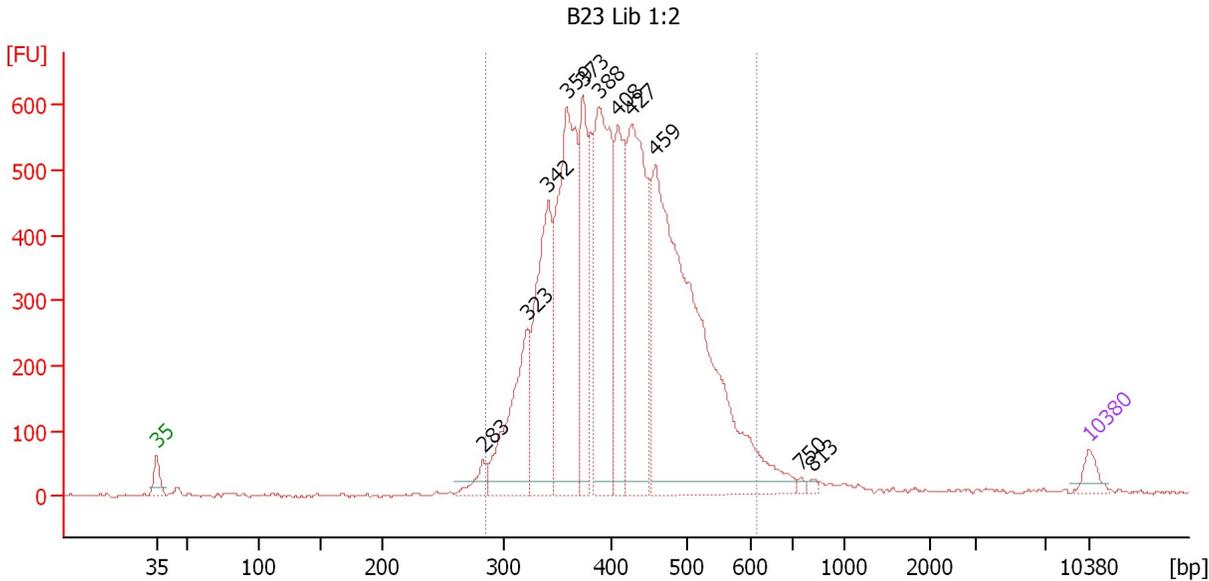
Region table for sample 6 : C06 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
270	592	392	64,446.6	16,101.58	12,712.5	95	16.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : B23 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 7 : B23 Lib 1:2

Number of peaks found: 11 Corr. Area 1: 9,393.8
 Noise: 2.2

Peak table for sample 7 : B23 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	283	139.45	746.4	
3	323	953.47	4,477.8	
4	342	1,278.50	5,671.4	
5	359	2,005.36	8,471.5	
6	373	824.01	3,344.3	
7	388	1,672.66	6,532.1	
8	408	882.20	3,274.9	
9	427	1,732.98	6,156.1	
10	459	3,752.73	12,391.0	
11	750	23.19	46.9	
12	813	25.21	47.0	
13	10,380	75.00	10.9	Upper Marker

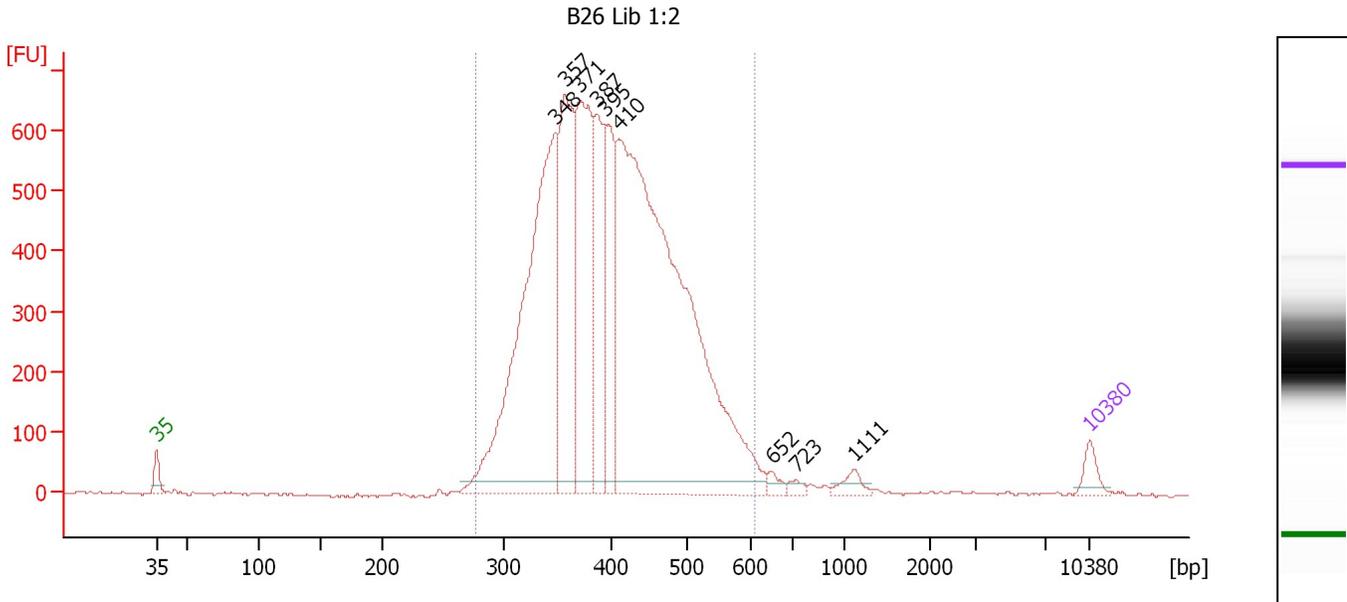
Region table for sample 7 : B23 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
286	617	416	49,658.5	13,169.74	9,393.8	94	16.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : B26 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 8 : B26 Lib 1:2

Number of peaks found: 9 Corr. Area 1: 10,400.9
 Noise: 1.9

Peak table for sample 8 : B26 Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	348	2,914.94	12,681.3	
3	357	1,280.70	5,436.8	
4	371	1,393.97	5,691.4	
5	387	838.72	3,287.8	
6	395	708.65	2,717.1	
7	410	4,952.71	18,309.3	
8	652	49.20	114.3	
9	723	37.30	78.2	
10	1,111	68.96	94.1	
11	10,380	75.00	10.9	Upper Marker

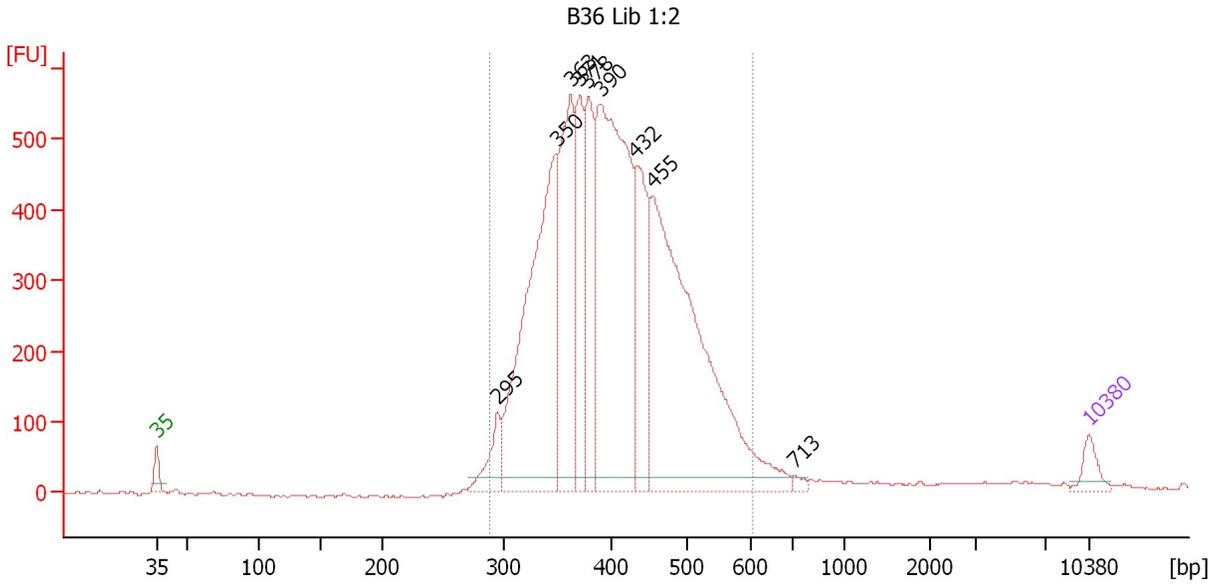
Region table for sample 8 : B26 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
278	612	406	45,717.3	11,846.13	10,400.9	97	16.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : B36 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 9 : B36 Lib 1:2

Number of peaks found: 9 Corr. Area 1: 8,612.7
 Noise: 1.3

Peak table for sample 9 : B36 Lib 1:2

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	295	225.27	1,156.1	
3	350	2,063.55	8,945.5	
4	363	1,055.12	4,408.9	
5	371	607.79	2,484.2	
6	378	677.31	2,713.6	
7	390	2,245.20	8,722.2	
8	432	736.68	2,583.1	
9	455	2,589.36	8,616.9	
10	713	27.25	57.9	
11	10,380	75.00	10.9	Upper Marker

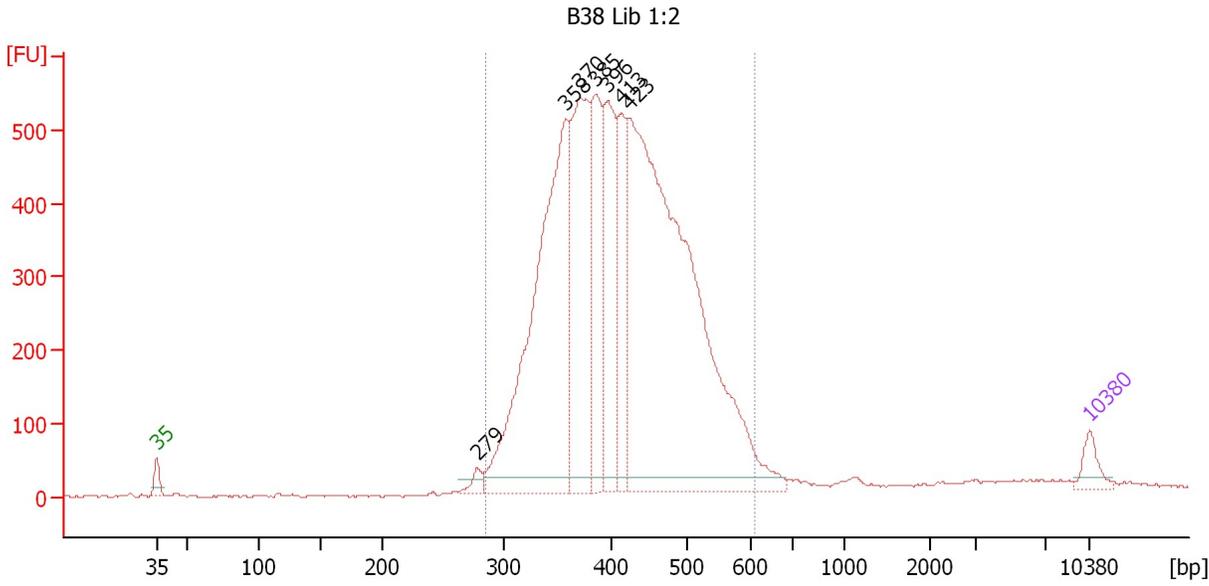
Region table for sample 9 : B36 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
289	604	409	37,840.9	9,892.46	8,612.7	94	16.5	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : B38 Lib 1:2

Height Threshold [FU] : 20

Overall Results for sample 10 : B38 Lib 1:2

Number of peaks found: 7 Corr. Area 1: 8,580.2
 Noise: 1.6

Peak table for sample 10 : B38 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	279	61.87	336.6	
3	358	2,499.93	10,574.2	
4	370	1,311.74	5,369.8	
5	385	789.79	3,111.8	
6	396	791.59	3,025.1	
7	413	571.31	2,096.4	
8	423	4,134.51	14,817.0	
9	10,380	75.00	10.9	Upper Marker

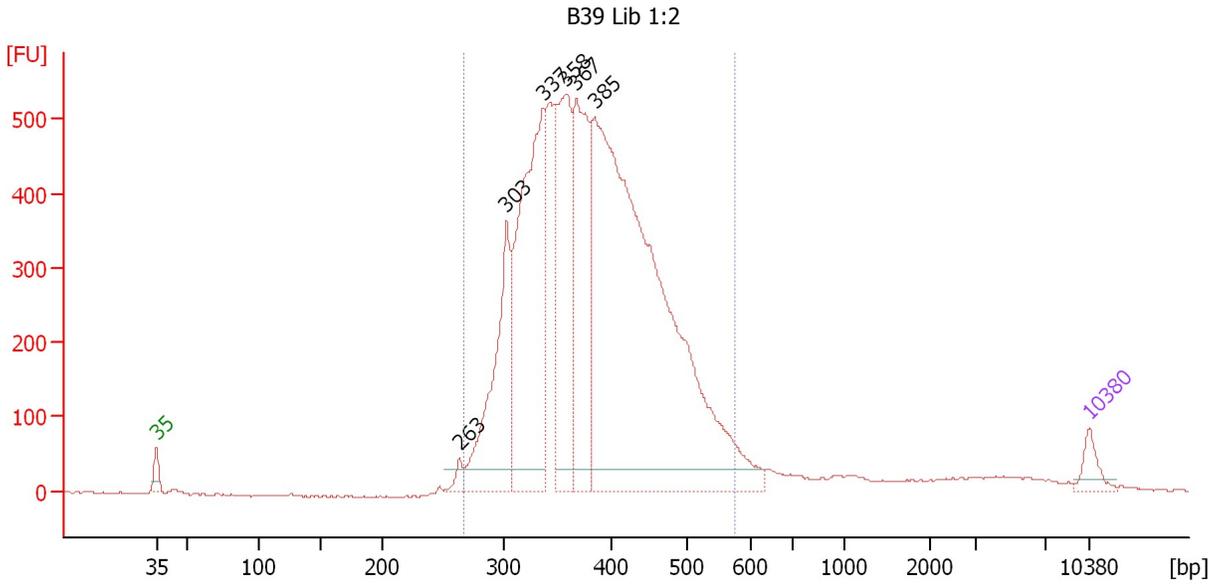
Region table for sample 10 : B38 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
286	609	416	37,296.2	9,915.83	8,580.2	95	16.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
 Modified: 7/18/2012 1:20:32 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : B39 Lib 1:2

Height Threshold [FU] : 30

Overall Results for sample 11 : B39 Lib 1:2

Number of peaks found: 6 Corr. Area 1: 8,437.6
 Noise: 1.6

Peak table for sample 11 : B39 Lib 1:2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	263	57.86	332.7	
3	303	982.65	4,912.2	
4	337	1,788.27	8,044.7	
5	358	1,014.01	4,294.0	
6	367	1,045.71	4,313.3	
7	385	4,550.59	17,931.7	
8	10,380	75.00	10.9	Upper Marker

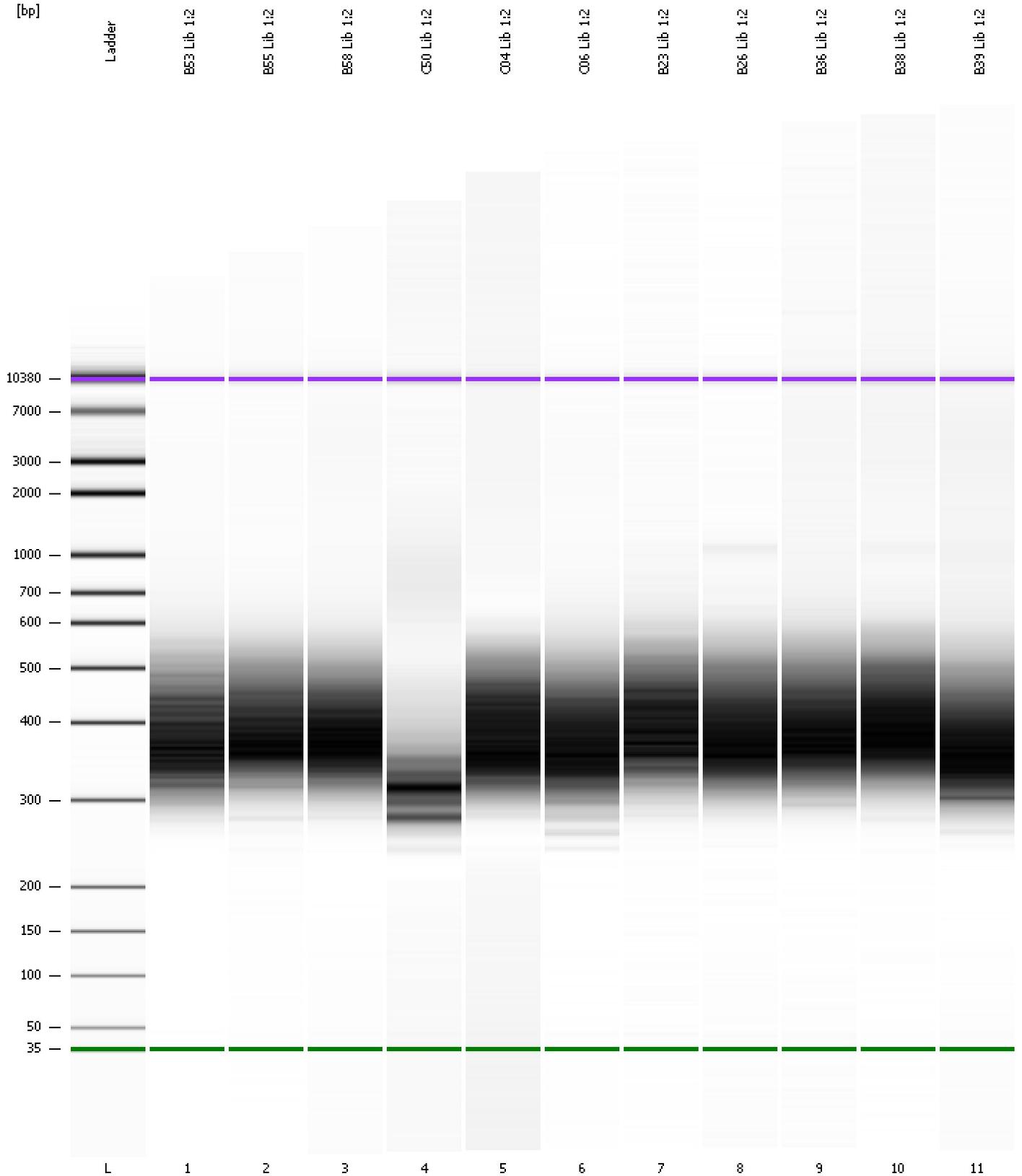
Region table for sample 11 : B39 Lib 1:2

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
267	577	387	39,281.2	9,698.51	8,437.6	93	16.7	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
Modified: 7/18/2012 1:20:32 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-18\2012-07-18_003.xad

Created: 7/18/2012 12:32:19 PM
Modified: 7/18/2012 1:20:32 PM

Curves

Standard Curve

