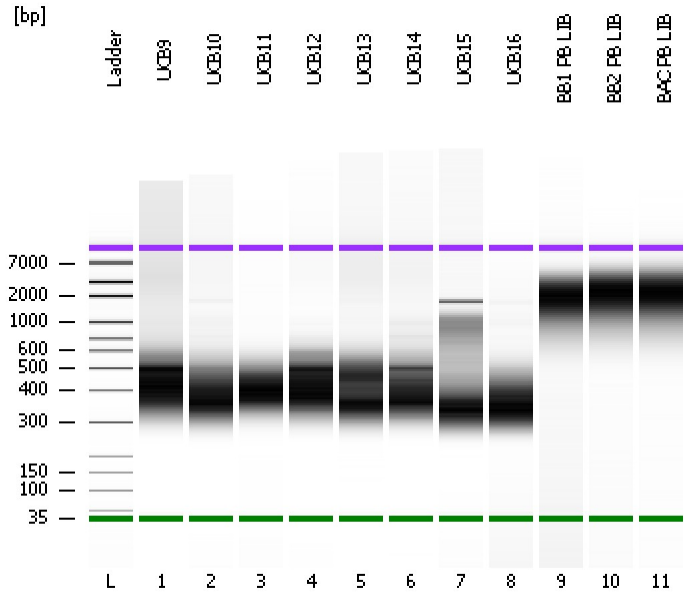
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

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

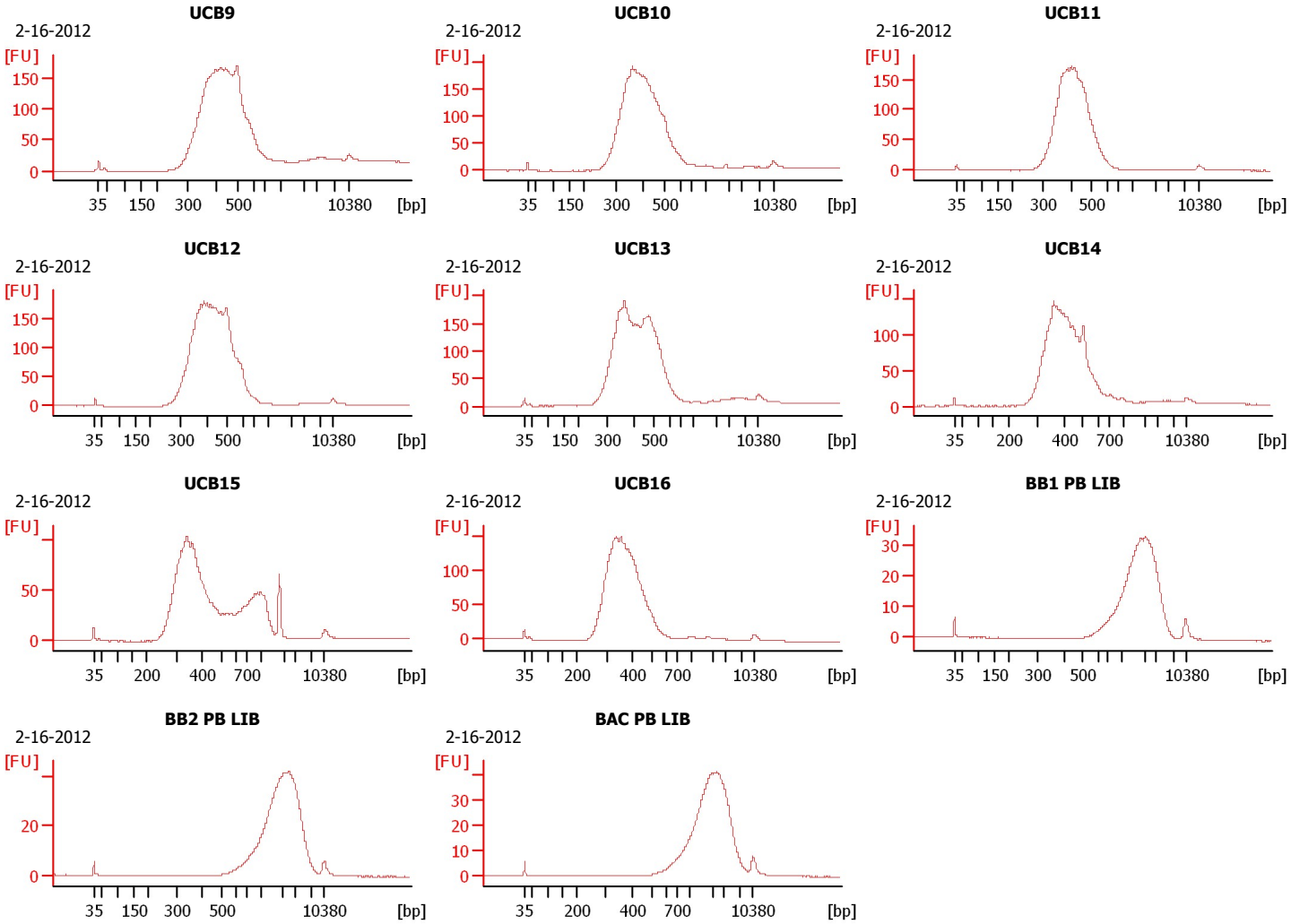
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
UCB9	2-16-2012	☐	✔			
UCB10	2-16-2012	☐	✔			
UCB11	2-16-2012	☐	✔			
UCB12	2-16-2012	☐	✔			
UCB13	2-16-2012	☐	✔			
UCB14	2-16-2012	☐	✔			
UCB15	2-16-2012	☐	✔			
UCB16	2-16-2012	☐	✔			
BB1 PB LIB	2-16-2012	☐	✔			
BB2 PB LIB	2-16-2012	☐	✔			
BAC PB LIB	2-16-2012	☐	✔			
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

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

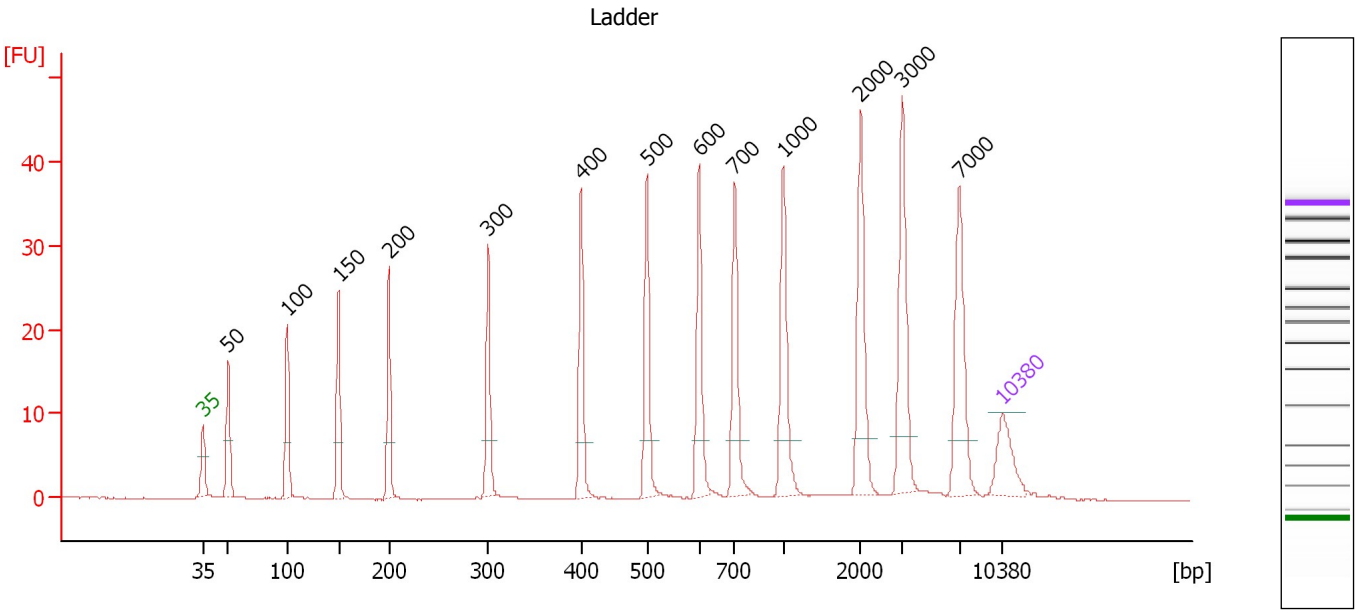
Ladder

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\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

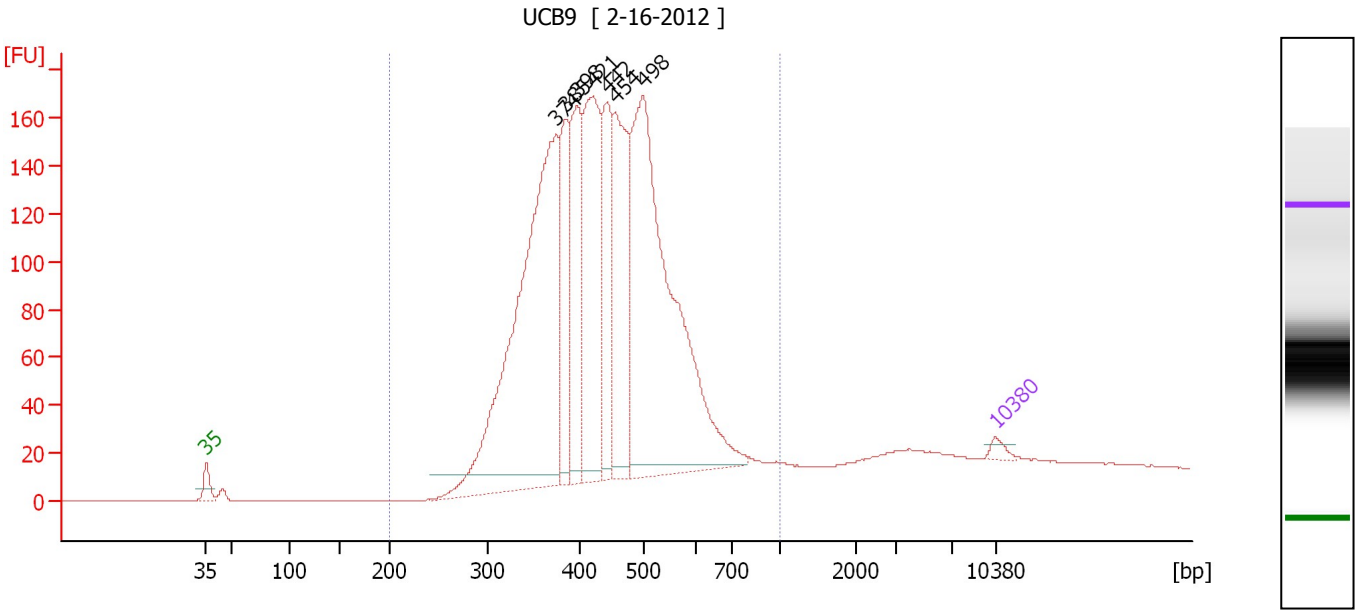
Peak table for Ladder

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\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : UCB9

Number of peaks found:	7	Corr. Area 1:	2,965.3
Noise:	0.1		

Peak table for sample 1 : UCB9

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	374	7,448.52	30,144.8	
3	385	1,498.69	5,900.2	
4	398	1,921.97	7,322.9	
5	421	2,911.97	10,490.6	
6	442	1,690.54	5,795.3	
7	454	2,360.67	7,872.5	
8	498	6,970.24	21,207.6	
9	10,380	75.00	10.9	Upper Marker

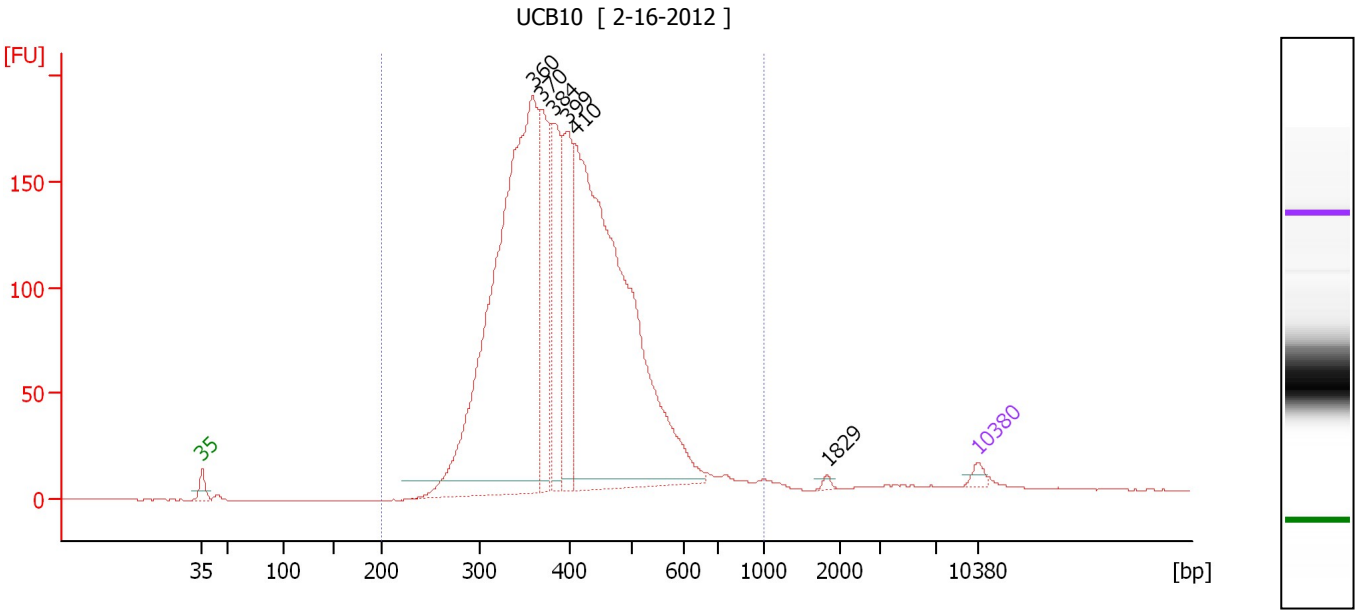
Region table for sample 1 : UCB9

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	92,891.2	445	25,825.68	1,000	2,965.3	95	21.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : UCB10

Number of peaks found:	6	Corr. Area 1:	3,151.6
Noise:	0.2		

Peak table for sample 2 : UCB10

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		360	9,992.49	42,070.1	
3		370	1,852.19	7,585.7	
4		384	2,006.27	7,924.8	
5		399	1,721.37	6,536.9	
6		410	9,548.41	35,260.6	
7		1,829	34.04	28.2	
8	▶	10,380	75.00	10.9	Upper Marker

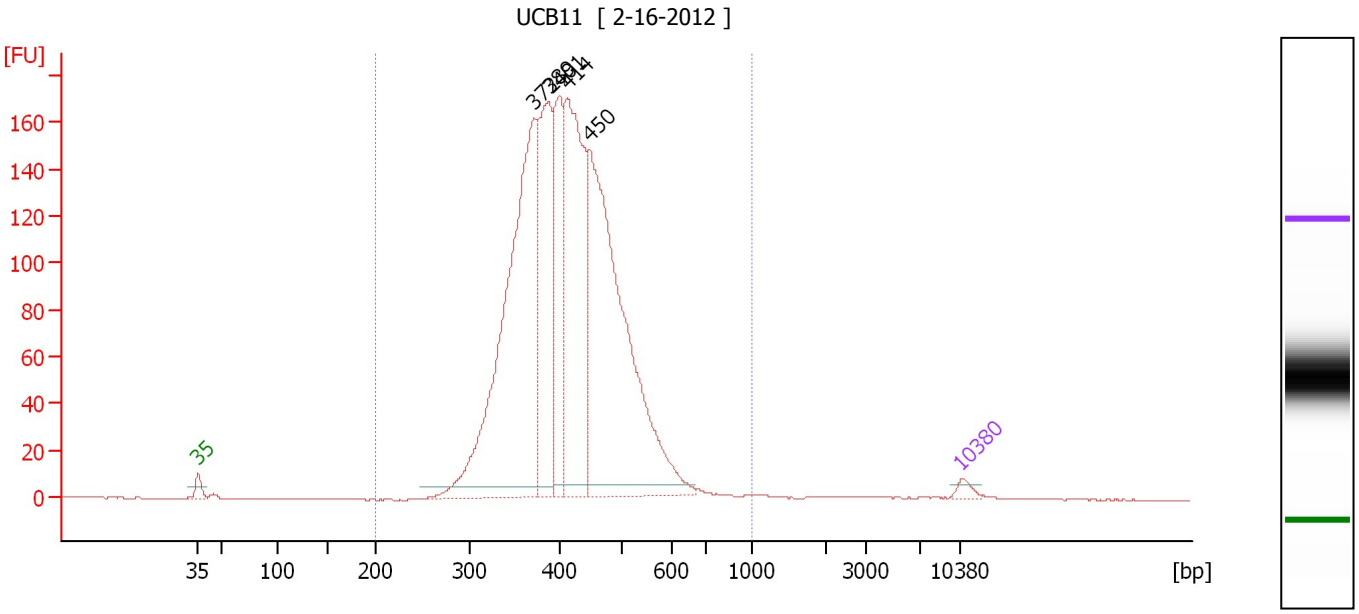
Region table for sample 2 : UCB10

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	103,087.6	409	26,437.29	1,000	3,151.6	98	21.8	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : UCB11

Number of peaks found:	5	Corr. Area 1:	2,456.9
Noise:	0.1		

Peak table for sample 3 : UCB11

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		372	7,138.40	29,090.0	
3		389	3,088.56	12,040.4	
4		401	2,048.37	7,739.8	
5		414	4,230.52	15,491.6	
6		450	6,979.38	23,523.9	
7	▶	10,380	75.00	10.9	Upper Marker

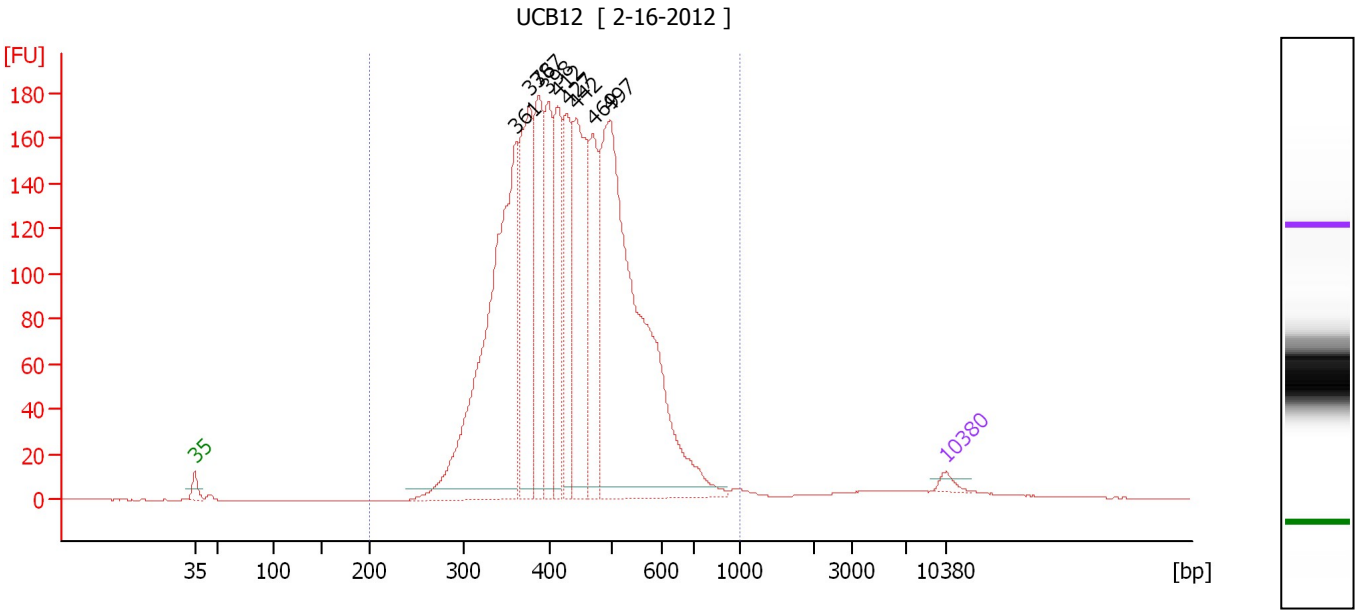
Region table for sample 3 : UCB11

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	88,888.4	421	23,864.96	1,000	2,456.9	99	17.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : UCB12

Number of peaks found:	9	Corr. Area 1:	3,226.6
Noise:	0.1		

Peak table for sample 4 : UCB12

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	361	5,967.55	25,049.5	
3	376	2,454.94	9,886.5	
4	387	1,857.17	7,278.2	
5	398	1,524.63	5,809.8	
6	412	1,488.37	5,471.1	
7	427	1,366.30	4,849.5	
8	442	2,449.50	8,388.5	
9	469	1,473.87	4,759.1	
10	497	7,193.44	21,934.9	
11	10,380	75.00	10.9	Upper Marker

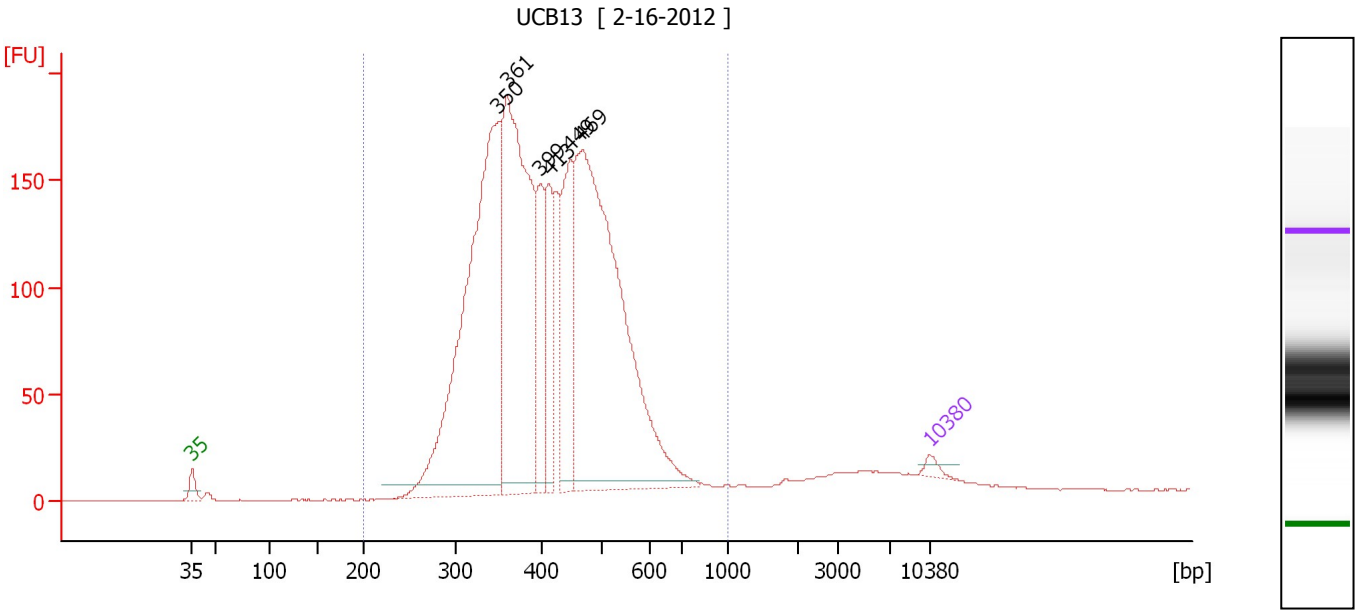
Region table for sample 4 : UCB12

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	95,328.2	439	26,200.51	1,000	3,226.6	98	20.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : UCB13

Number of peaks found:	6	Corr. Area 1:	3,365.2
Noise:	0.1		

Peak table for sample 5 : UCB13

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		350	6,947.01	30,066.5	
3		361	5,481.27	23,026.3	
4		399	1,149.74	4,362.8	
5		413	1,065.04	3,906.3	
6		449	1,686.15	5,687.0	
7		469	7,428.63	24,018.6	
8	▶	10,380	75.00	10.9	Upper Marker

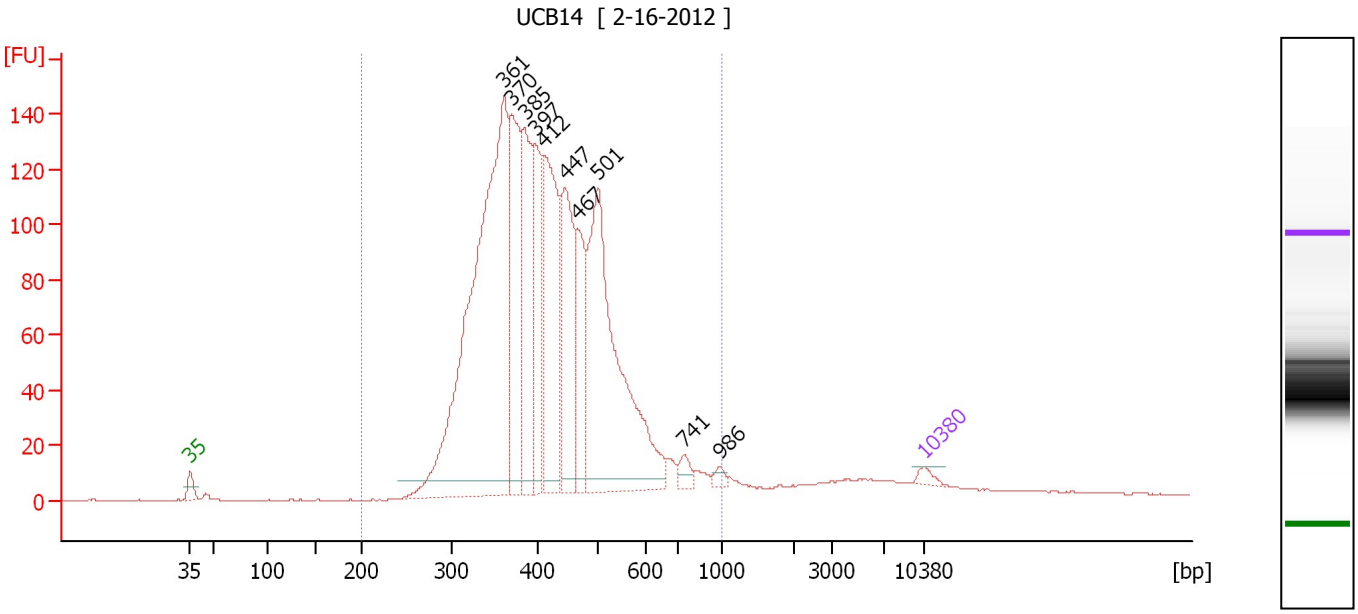
Region table for sample 5 : UCB13

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	95,490.5	421	25,046.93	1,000	3,365.2	96	21.9	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : UCB14

Number of peaks found:	10	Corr. Area 1:	2,394.7
Noise:	0.2		

Peak table for sample 6 : UCB14

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		361	9,270.22	38,915.0	
3		370	2,576.92	10,560.8	
4		385	2,183.54	8,585.0	
5		397	1,562.03	5,957.4	
6		412	2,848.70	10,473.7	
7		447	2,105.72	7,142.9	
8		467	1,227.16	3,981.0	
9		501	5,138.00	15,541.2	
10		741	186.41	381.0	
11		986	89.77	138.0	
12	▶	10,380	75.00	10.9	Upper Marker

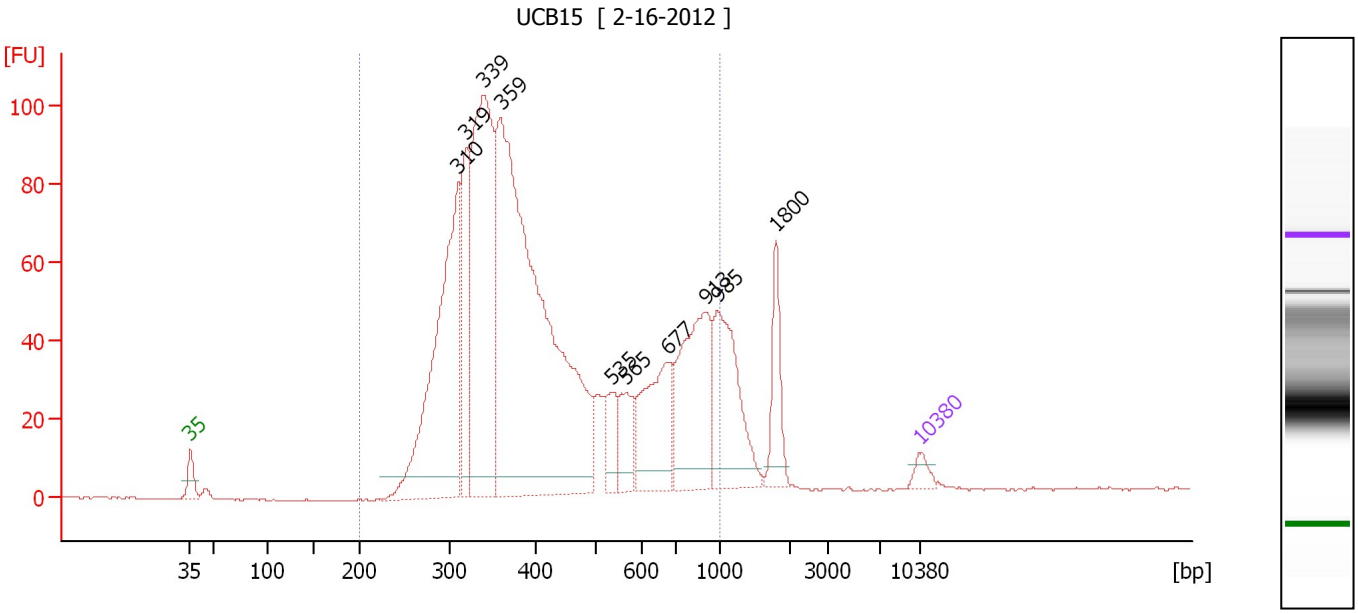
Region table for sample 6 : UCB14

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	109,342.8	428	29,074.89	1,000	2,394.7	95	24.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : UCB15

Number of peaks found:	10	Corr. Area 1:	1,790.3
Noise:	0.2		

Peak table for sample 7 : UCB15

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		310	2,836.63	13,885.6	
3		319	1,050.88	4,991.7	
4		339	2,872.66	12,833.8	
5		359	6,010.71	25,346.2	
6		535	284.70	806.3	
7		565	338.49	907.4	
8		677	897.64	2,009.7	
9		913	1,145.33	1,901.7	
10		985	967.82	1,489.0	
11		1,800	364.23	306.6	
12	▶	10,380	75.00	10.9	Upper Marker

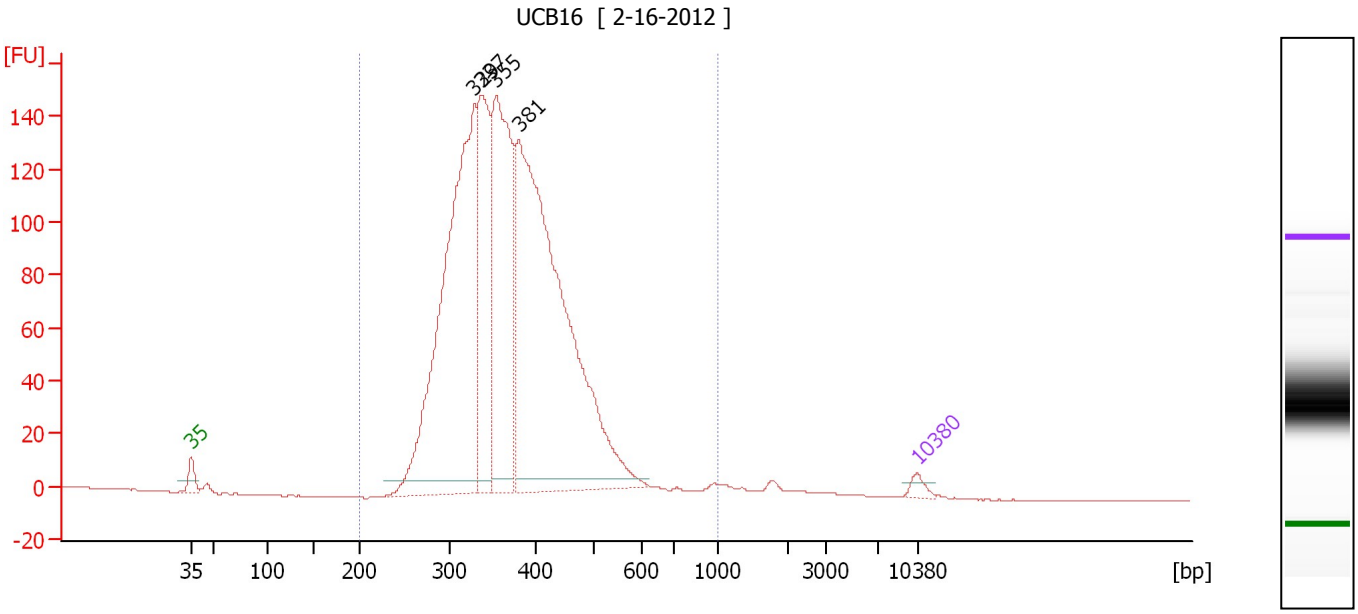
Region table for sample 7 : UCB15

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	61,642.8	457	15,821.22	1,000	1,790.3	91	40.0	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : UCB16

Number of peaks found:	4	Corr. Area 1:	2,362.1
Noise:	0.1		

Peak table for sample 8 : UCB16

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		329	6,513.74	30,030.3	
3		337	2,395.50	10,774.2	
4		355	3,728.23	15,930.3	
5		381	7,842.86	31,174.3	
6	▶	10,380	75.00	10.9	Upper Marker

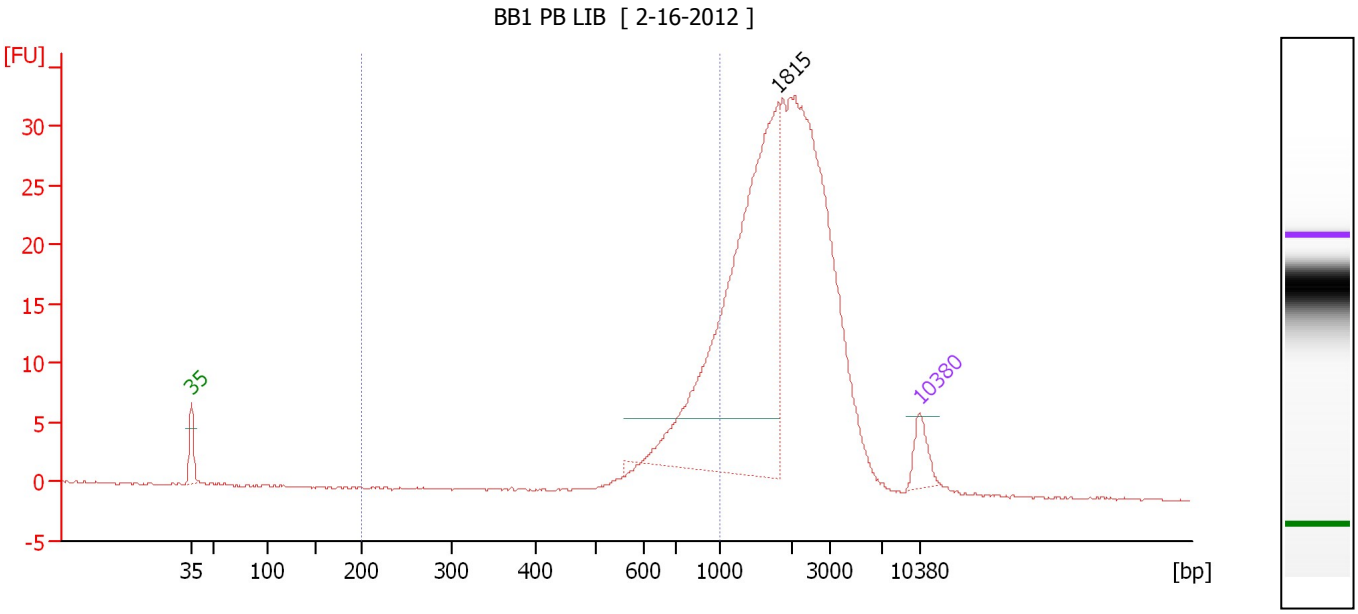
Region table for sample 8 : UCB16

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	86,782.6	376	20,623.08	1,000	2,362.1	99	20.1	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BB1 PB LIB

Number of peaks found:	1	Corr. Area 1:	65.3
Noise:	0.1		

Peak table for sample 9 : BB1 PB LIB

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		1,815	1,635.05	1,364.7	
3	▶	10,380	75.00	10.9	Upper Marker

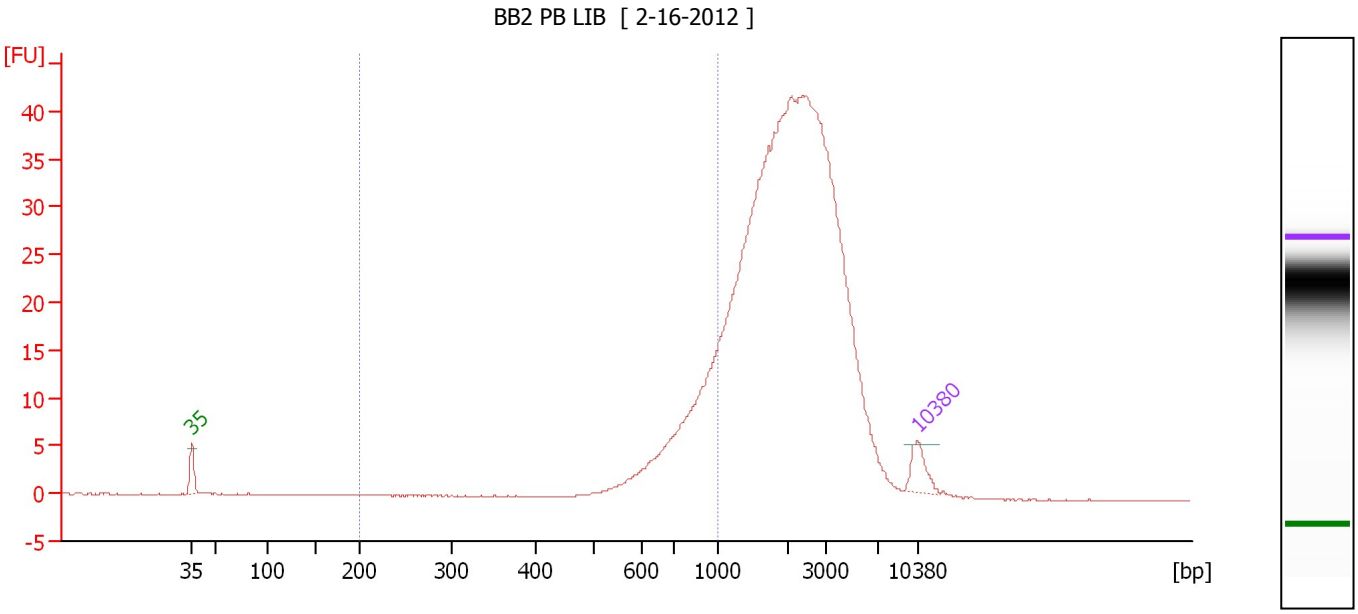
Region table for sample 9 : BB1 PB LIB

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,478.3	793	745.68	1,000	65.3	17	17.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : BB2 PB LIB

Number of peaks found:	0	Corr. Area 1:	70.8
Noise:	0.1		

Peak table for sample 10 : BB2 PB LIB

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

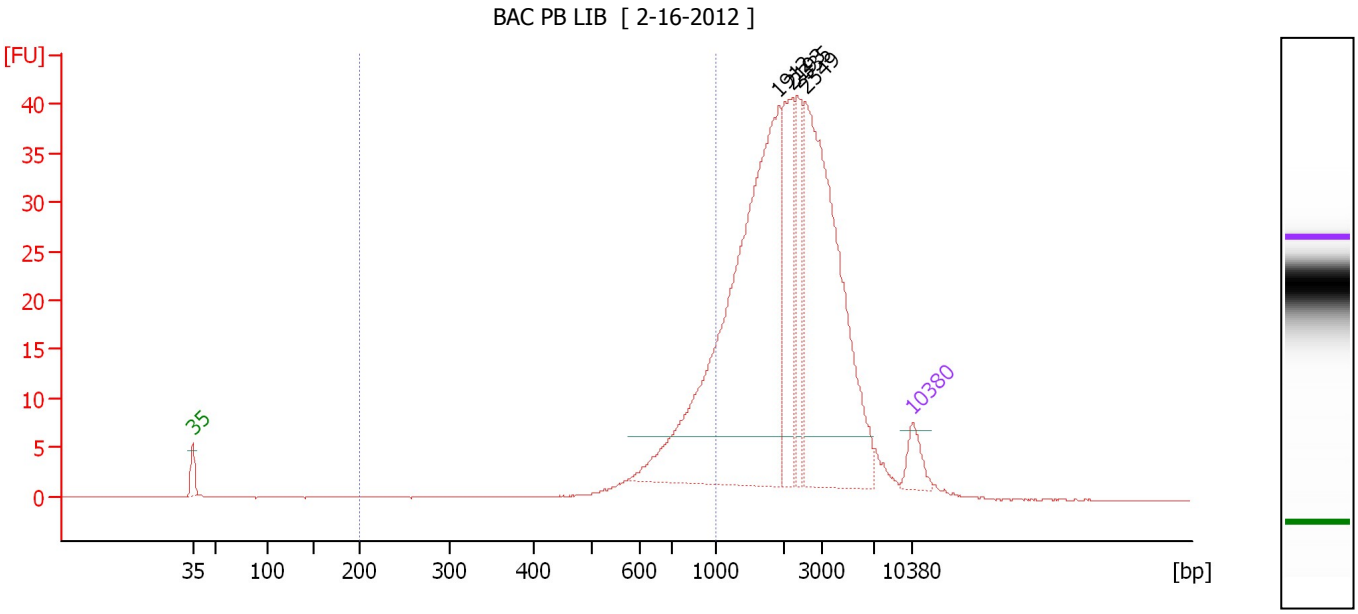
Region table for sample 10 : BB2 PB LIB

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,821.7	787	893.49	1,000	70.8	14	18.4	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : BAC PB LIB

Number of peaks found:	4	Corr. Area 1:	71.9
Noise:	0.1		

Peak table for sample 11 : BAC PB LIB

Peak		Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	◀	35	125.00	5,411.3	Lower Marker
2		1,912	1,833.28	1,452.5	
3		2,193	362.09	250.2	
4		2,335	214.84	139.4	
5		2,549	1,261.10	749.6	
6	▶	10,380	75.00	10.9	Upper Marker

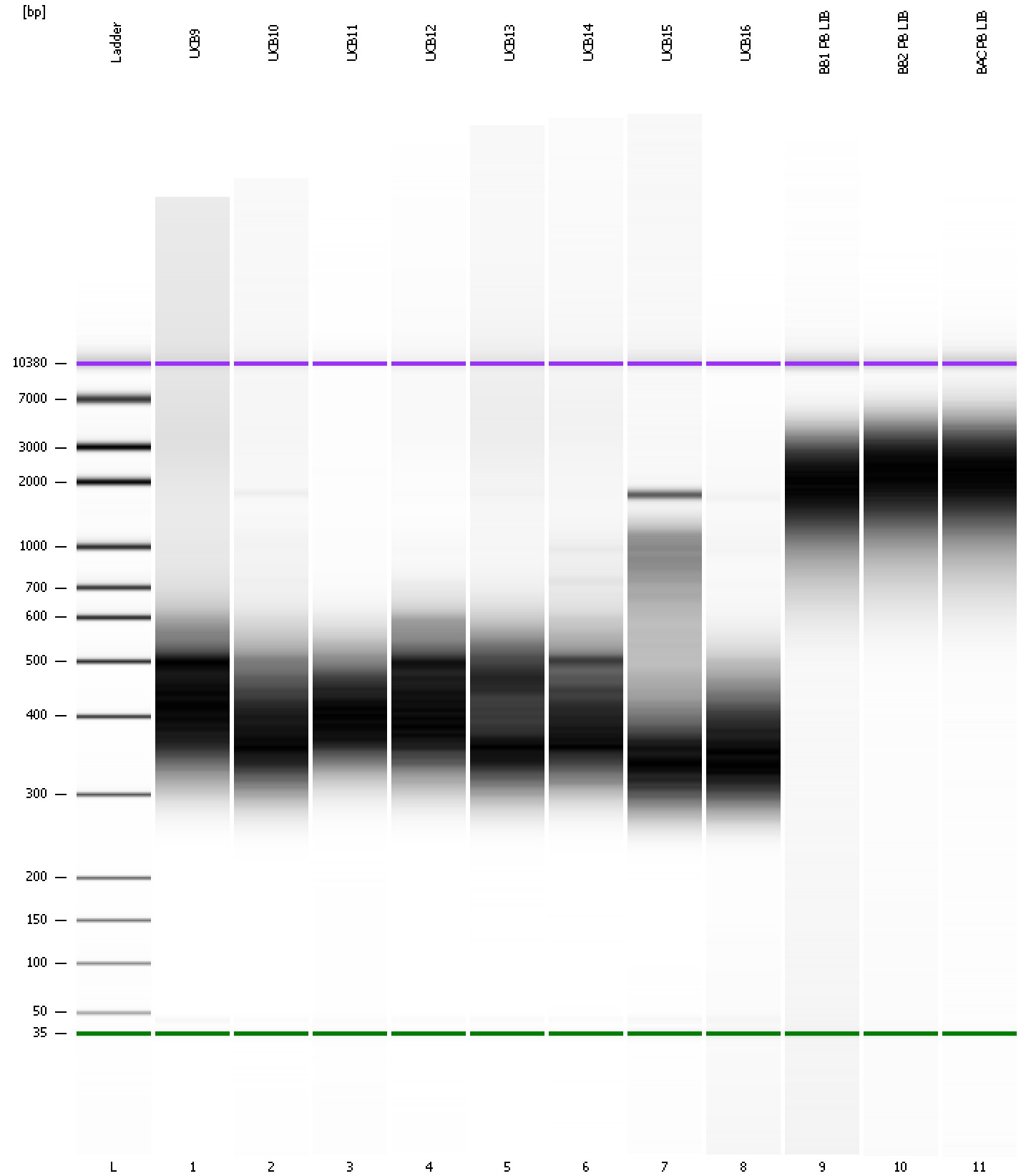
Region table for sample 11 : BAC PB LIB

From [bp]	Molarity [pmol/l]	Average Size [bp]	Conc. [pg/µl]	To [bp]	Corr. Area	% of Total	Size distribution in CV [%]	Color
200	1,570.4	777	744.54	1,000	71.9	14	20.2	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad

Created: 2/17/2012 9:12:54 AM
Modified: 2/17/2012 9:54:16 AM

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		2/17/2012 9:54:13 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-02-17\2012-02-17_001.xad)		Instrument	Run		2/17/2012 9:13:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/17/2012 9:13:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/17/2012 9:13:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/17/2012 9:13:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/17/2012 9:13:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/17/2012 9:13:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/17/2012 9:13:00 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1