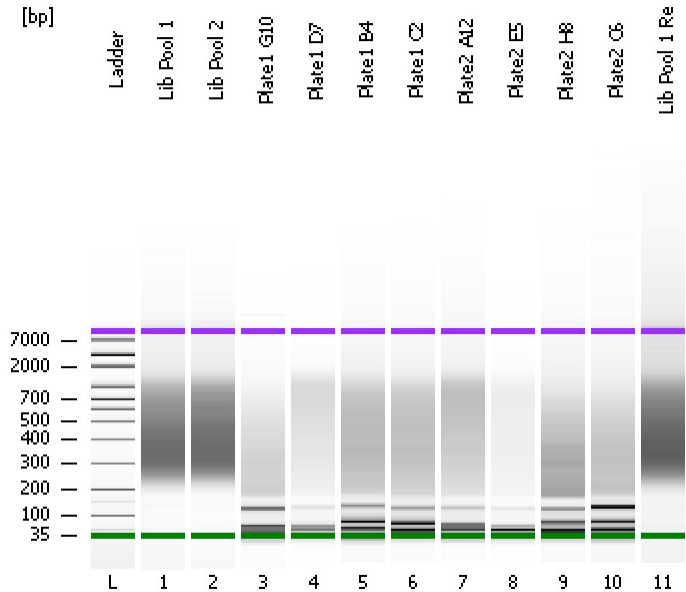


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
Modified: 10/1/2015 11:38:37 AM

Electrophoresis File Run Summary



Instrument Information:

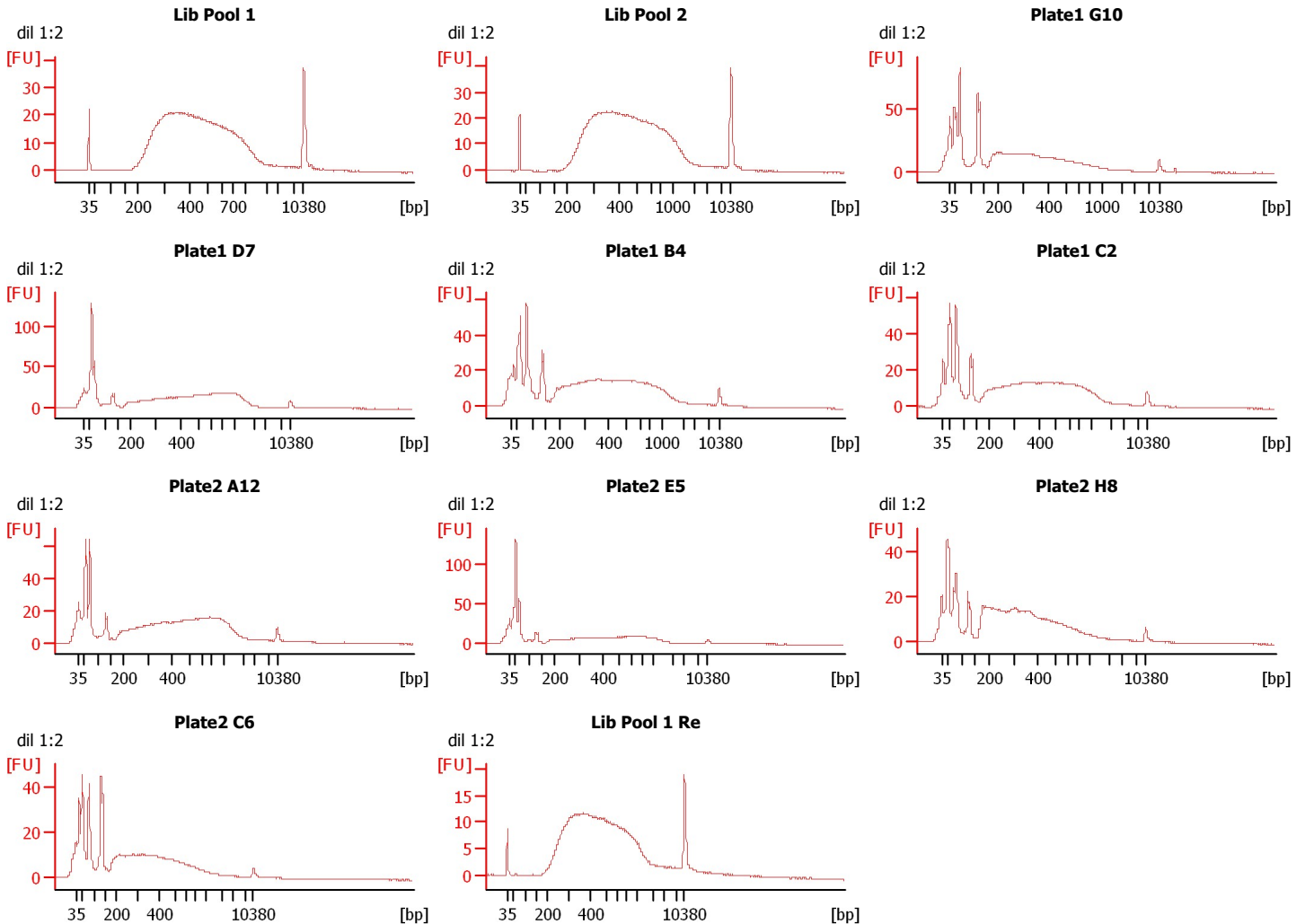
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
Modified: 10/1/2015 11:38:37 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
Lib Pool 1	dil 1:2	<input type="checkbox"/>	✓			
Lib Pool 2	dil 1:2	<input type="checkbox"/>	✓			
Plate1 G10	dil 1:2	<input type="checkbox"/>	✓			
Plate1 D7	dil 1:2	<input type="checkbox"/>	✓			
Plate1 B4	dil 1:2	<input type="checkbox"/>	✓			
Plate1 C2	dil 1:2	<input type="checkbox"/>	✓			
Plate2 A12	dil 1:2	<input type="checkbox"/>	✓			
Plate2 E5	dil 1:2	<input type="checkbox"/>	✓			
Plate2 H8	dil 1:2	<input type="checkbox"/>	✓			
Plate2 C6	dil 1:2	<input type="checkbox"/>	✓			
Lib Pool 1 Re	dil 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:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
Modified: 10/1/2015 11:38:37 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

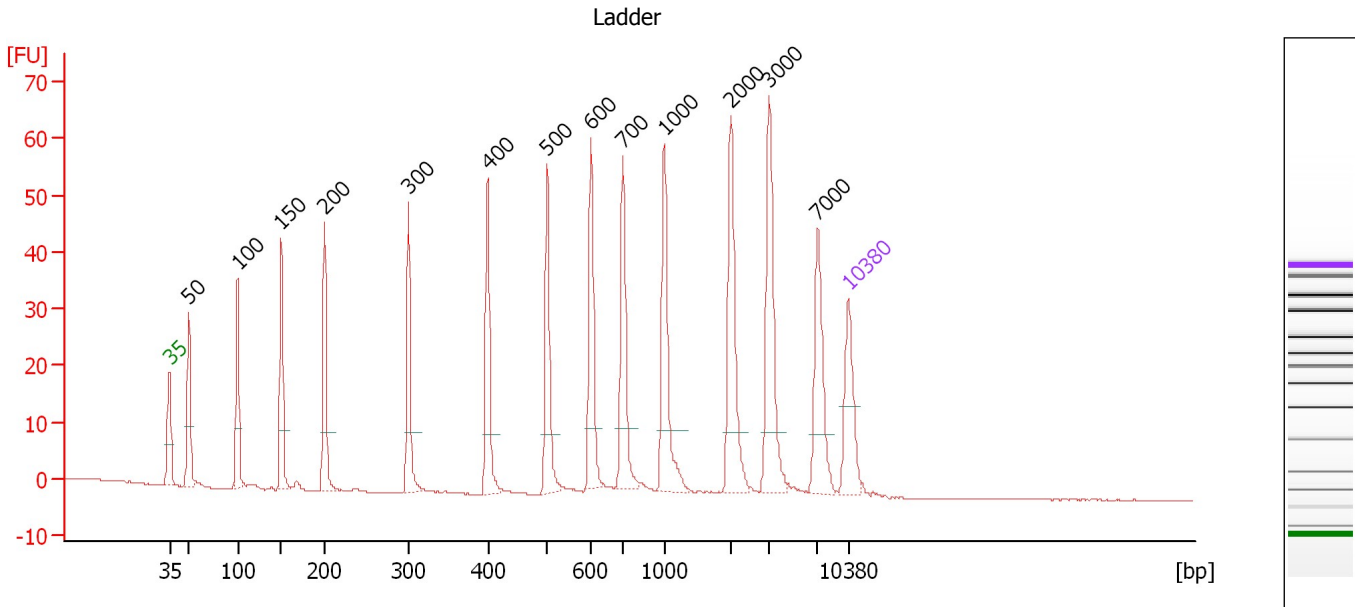
Ladder

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:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

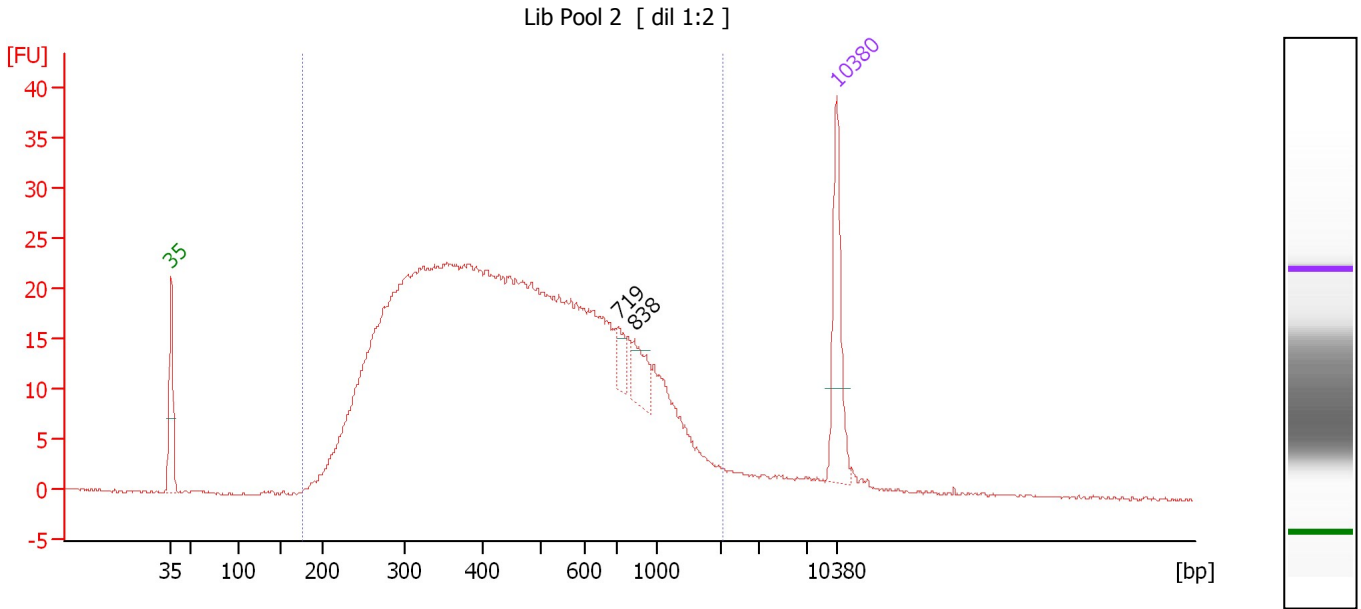
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	44.98
3	100	150.00	2,272.7	Ladder Peak	50.03
4	150	150.00	1,515.2	Ladder Peak	54.54
5	200	150.00	1,136.4	Ladder Peak	58.99
6	300	150.00	757.6	Ladder Peak	67.62
7	400	150.00	568.2	Ladder Peak	75.80
8	500	150.00	454.5	Ladder Peak	81.90
9	600	150.00	378.8	Ladder Peak	86.46
10	700	150.00	324.7	Ladder Peak	89.76
11	1,000	150.00	227.3	Ladder Peak	93.99
12	2,000	150.00	113.6	Ladder Peak	100.86
13	3,000	150.00	75.8	Ladder Peak	104.81
14	7,000	150.00	32.5	Ladder Peak	109.81
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Lib Pool 2

Number of peaks found: 2 Corr. Area 1: 827.1
 Noise: 0.1

Peak table for sample 2 : Lib Pool 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	719	20.52	43.3		90.02
3	838	33.17	60.0		91.70
4	10,380	75.00	10.9	Upper Marker	113.00

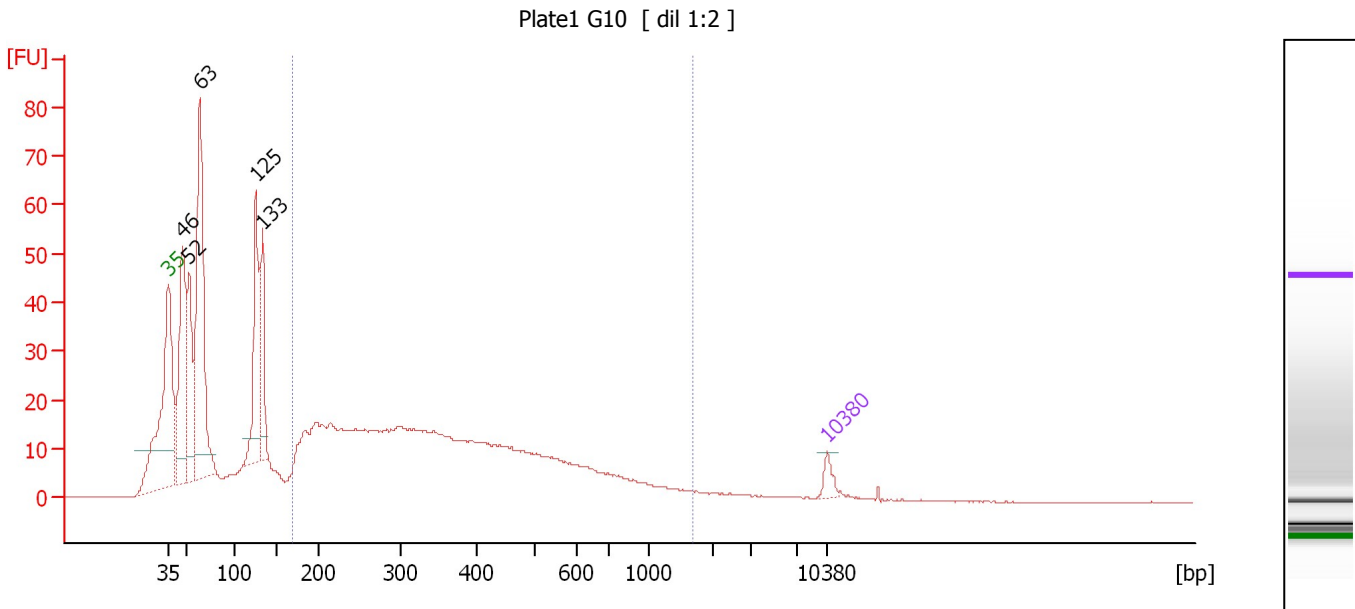
Region table for sample 2 : Lib Pool 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
175	2,034	521	827.1	10,566.3	2,748.80	96	56.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Plate1 G10

Number of peaks found: 5 Corr. Area 1: 553.7
 Noise: 0.1

Peak table for sample 3 : Plate1 G10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	46	1,605.92	52,705.3		44.47
3	52	1,068.39	30,962.3		45.21
4	63	2,590.28	61,819.5		46.34
5	125	1,131.82	13,716.2		52.29
6	133	791.46	9,045.8		52.97
7	10,380	75.00	10.9	Upper Marker	113.00

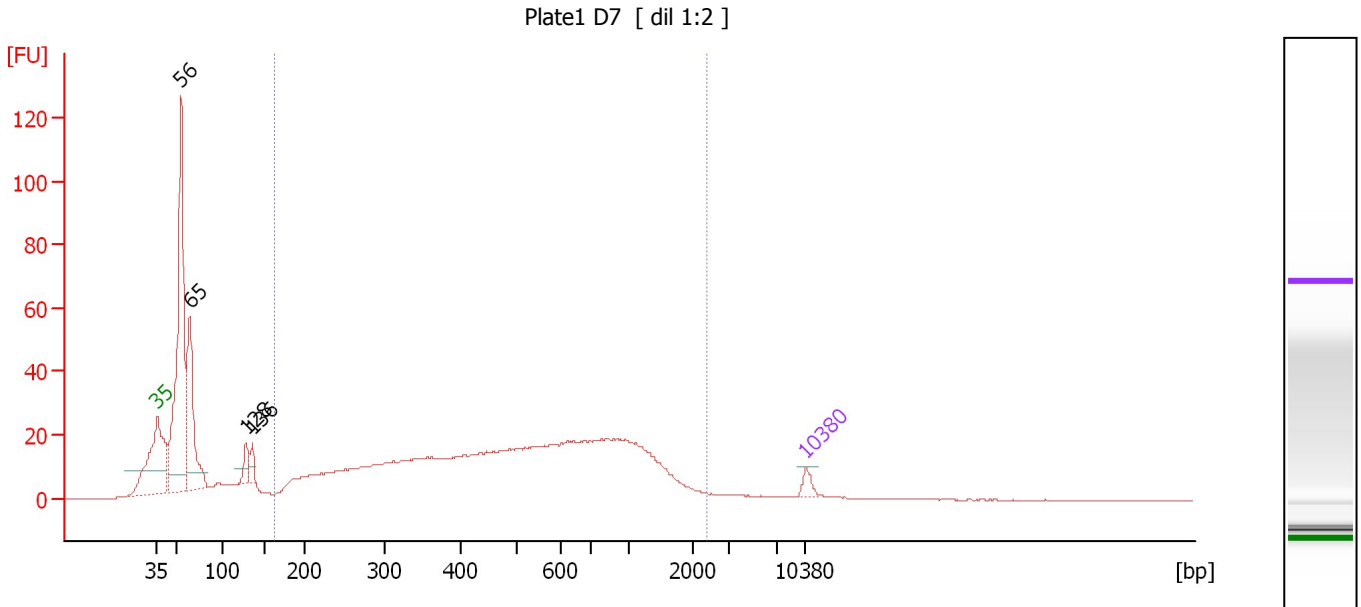
Region table for sample 3 : Plate1 G10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
169	1,676	400	553.7	39,536.7	7,885.06	52	55.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Plate1 D7

Number of peaks found: 4 Corr. Area 1: 695.6
 Noise: 0.1

Peak table for sample 4 : Plate1 D7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	56	3,621.58	97,885.3		45.59
3	65	1,641.67	38,168.6		46.51
4	128	246.53	2,918.2		52.56
5	136	167.94	1,875.6		53.25
6	10,380	75.00	10.9	Upper Marker	113.00

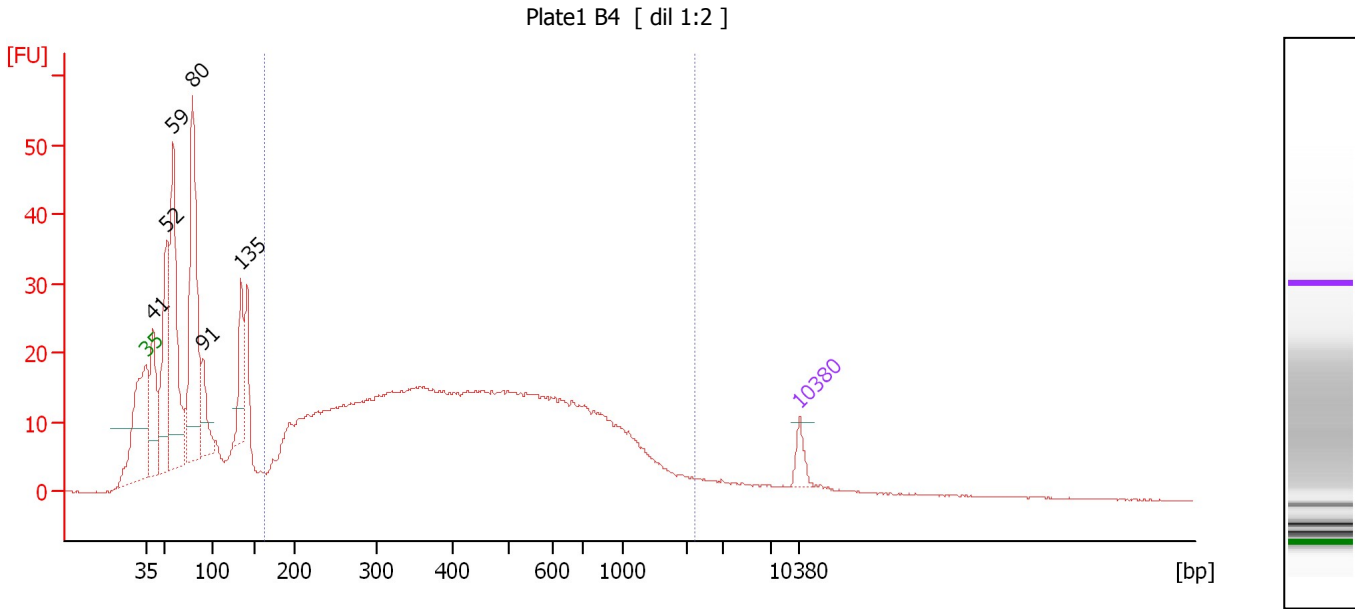
Region table for sample 4 : Plate1 D7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
162	2,376	616	695.6	31,432.7	8,319.86	62	61.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Plate1 B4

Number of peaks found: 6 Corr. Area 1: 696.0
 Noise: 0.1

Peak table for sample 5 : Plate1 B4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	41	653.16	24,357.8		43.74
3	52	1,022.16	29,521.7		45.23
4	59	1,491.74	38,155.2		45.91
5	80	1,697.88	32,331.2		47.97
6	91	325.86	5,433.6		49.11
7	135	456.82	5,137.1		53.16
8	10,380	75.00	10.9	Upper Marker	113.00

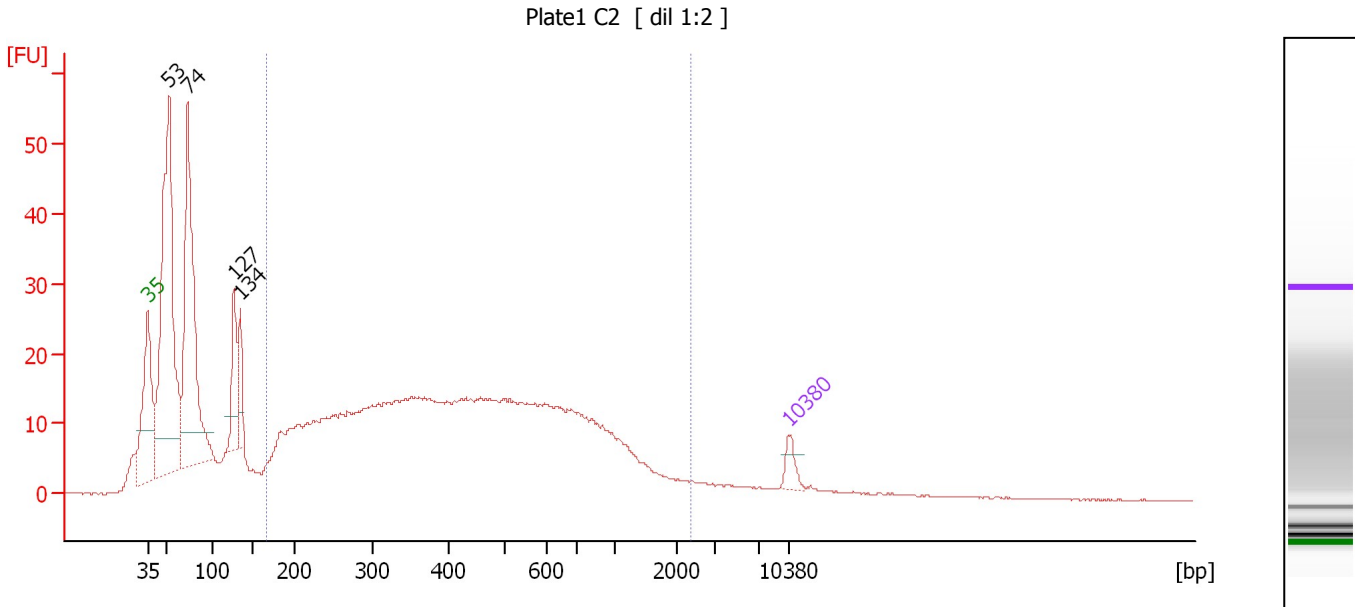
Region table for sample 5 : Plate1 B4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
162	2,211	516	696.0	38,326.6	8,941.73	59	63.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Plate1 C2

Number of peaks found: 4 Corr. Area 1: 627.6
 Noise: 0.1

Peak table for sample 6 : Plate1 C2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	53	3,107.55	88,078.3		45.33
3	74	2,311.43	47,582.9		47.36
4	127	466.30	5,582.3		52.43
5	134	308.82	3,483.8		53.12
6	10,380	75.00	10.9	Upper Marker	113.00

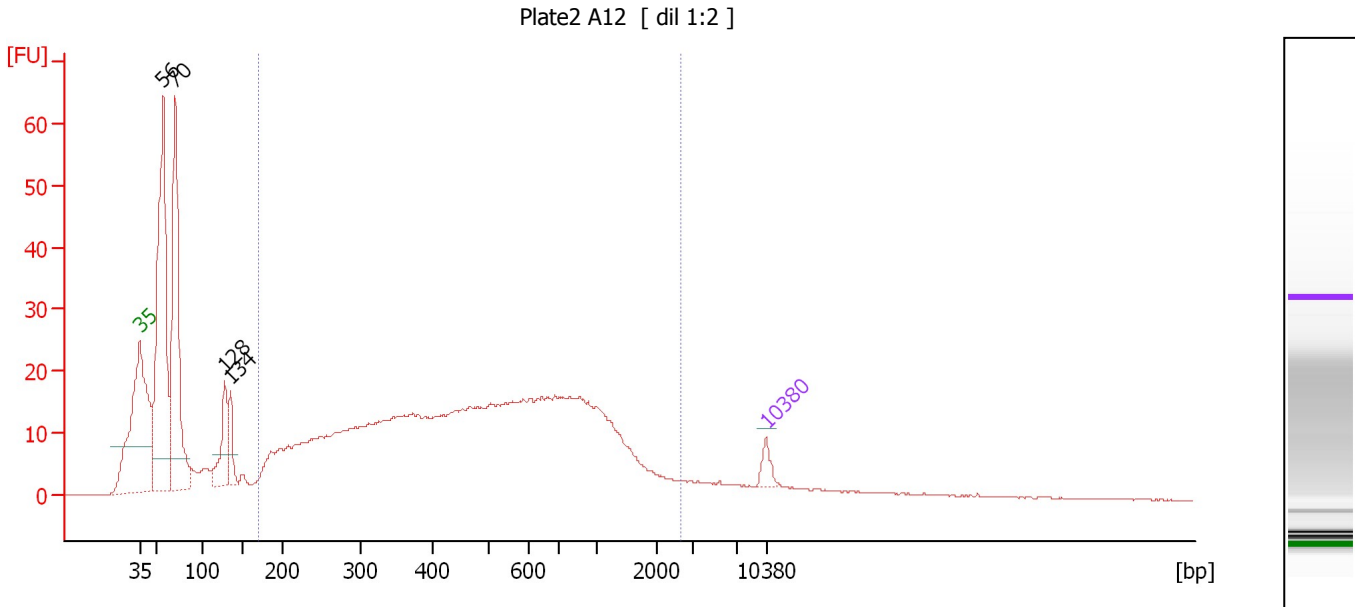
Region table for sample 6 : Plate1 C2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
167	2,363	516	627.6	37,149.7	8,614.44	58	65.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Plate2 A12

Number of peaks found: 4 Corr. Area 1: 657.7
 Noise: 0.1

Peak table for sample 7 : Plate2 A12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	56	3,008.57	80,877.0		45.62
3	70	2,293.55	49,703.6		46.99
4	128	519.93	6,167.4		52.53
5	134	294.56	3,322.1		53.13
6	10,380	75.00	10.9	Upper Marker	113.00

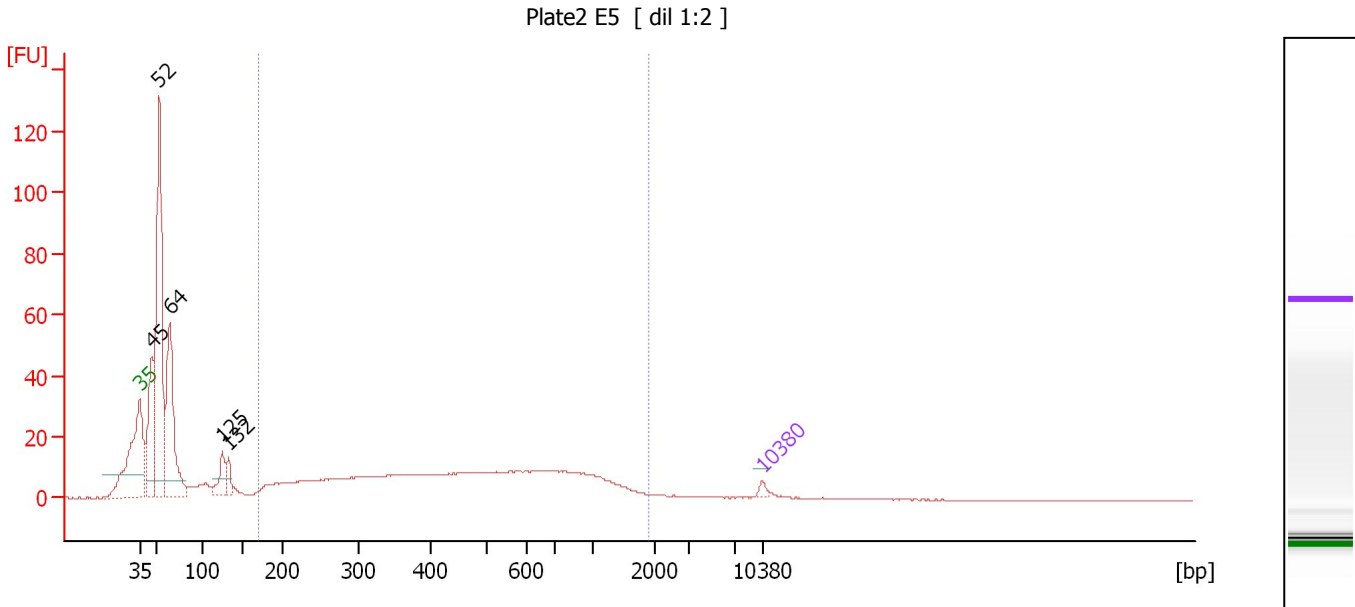
Region table for sample 7 : Plate2 A12

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
169	2,676	606	657.7	37,667.1	9,649.00	64	67.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Plate2 E5

Number of peaks found: 5 Corr. Area 1: 386.4
 Noise: 0.1

Peak table for sample 8 : Plate2 E5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	45	2,246.24	74,877.1		44.38
3	52	6,421.03	185,776.5		45.22
4	64	3,815.82	90,021.0		46.42
5	125	663.32	8,037.6		52.29
6	132	383.20	4,386.7		52.95
7	10,380	75.00	10.9	Upper Marker	113.00

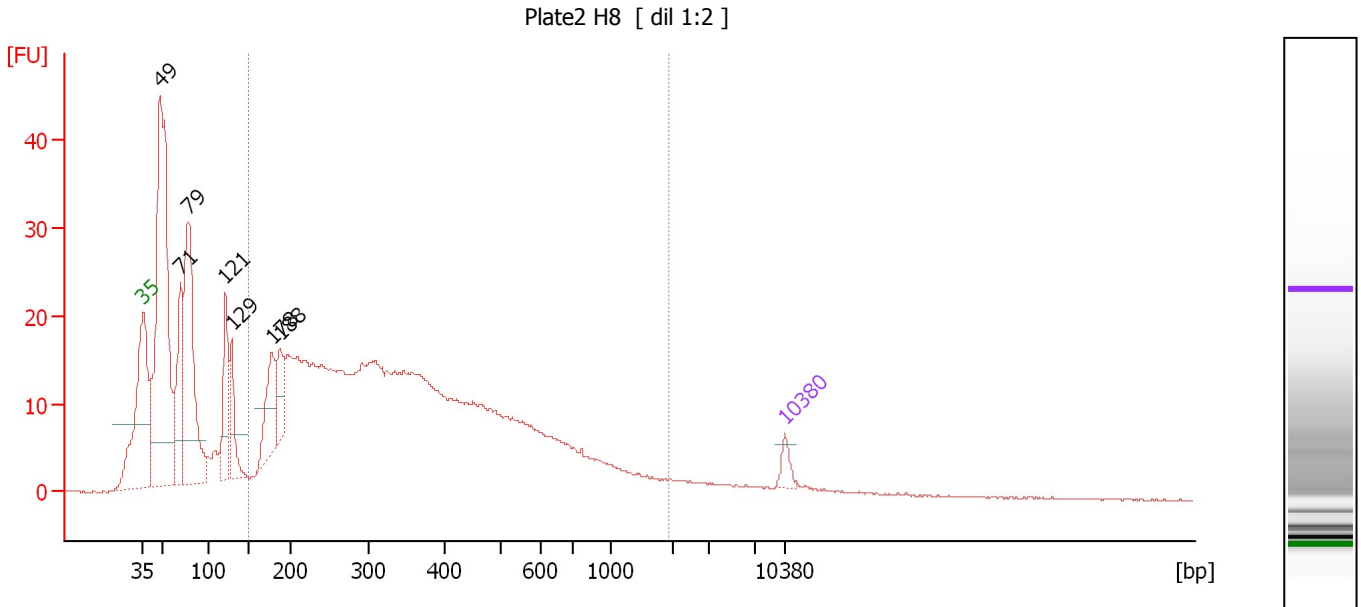
Region table for sample 8 : Plate2 E5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
169	1,921	548	386.4	37,892.3	9,311.97	45	59.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Plate2 H8

Number of peaks found: 7 Corr. Area 1: 592.4
 Noise: 0.1

Peak table for sample 9 : Plate2 H8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	49	3,908.41	121,650.5		44.80
3	71	914.69	19,595.9		47.07
4	79	2,103.94	40,170.3		47.95
5	121	659.55	8,231.9		51.96
6	129	446.73	5,241.2		52.66
7	178	579.24	4,932.9		57.02
8	188	368.40	2,973.4		57.90
9	10,380	75.00	10.9	Upper Marker	113.00

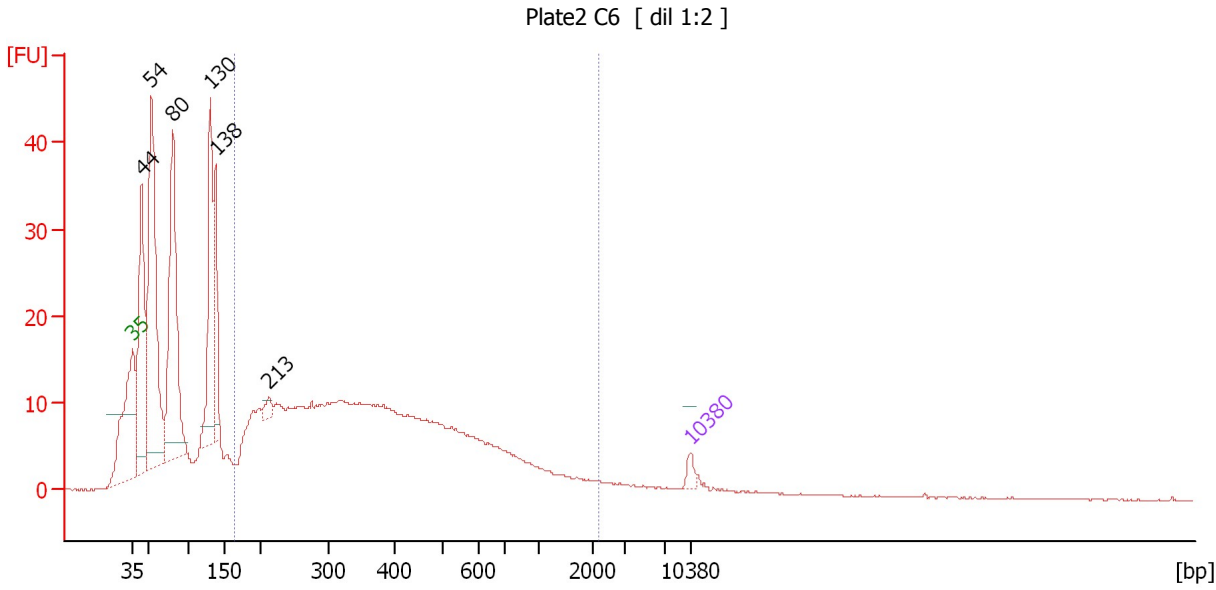
Region table for sample 9 : Plate2 H8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
149	1,923	406	592.4	64,624.3	12,527.82	63	62.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : Plate2 C6

Height Threshold [FU] : 2

Overall Results for sample 10 : Plate2 C6

Number of peaks found: 6 Corr. Area 1: 399.5
 Noise: 0.1

Peak table for sample 10 : Plate2 C6

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	44	2,497.54	86,721.5		44.14
3	54	4,029.47	113,851.1		45.34
4	80	3,245.77	61,374.7		48.02
5	130	1,847.93	21,457.7		52.78
6	138	1,078.66	11,850.0		53.45
7	213	133.76	949.5		60.15
8	10,380	75.00	10.9	Upper Marker	113.00

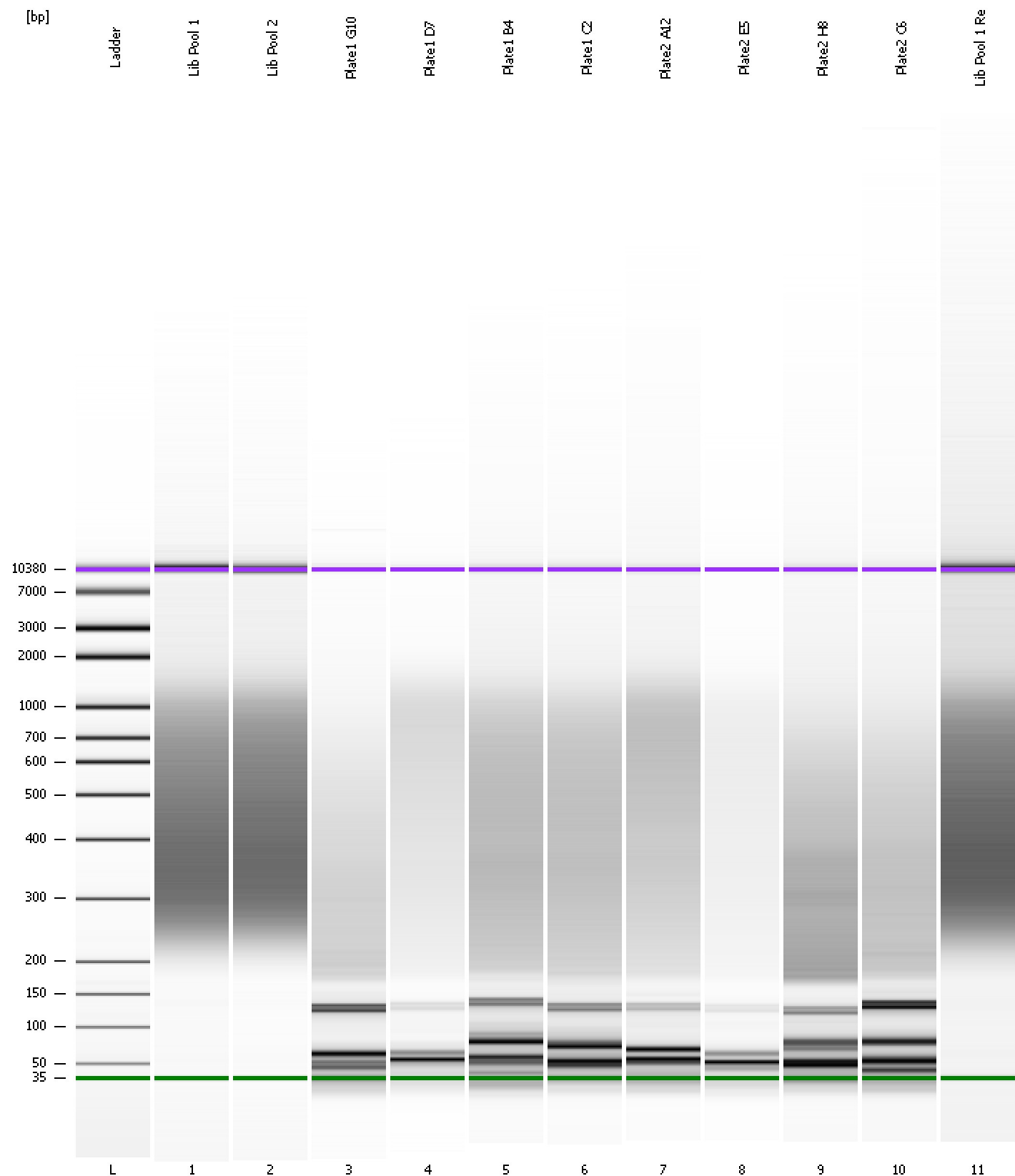
Region table for sample 10 : Plate2 C6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
165	2,170	445	399.5	61,176.6	12,828.44	51	66.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
Modified: 10/1/2015 11:38:37 AM

Gel Image

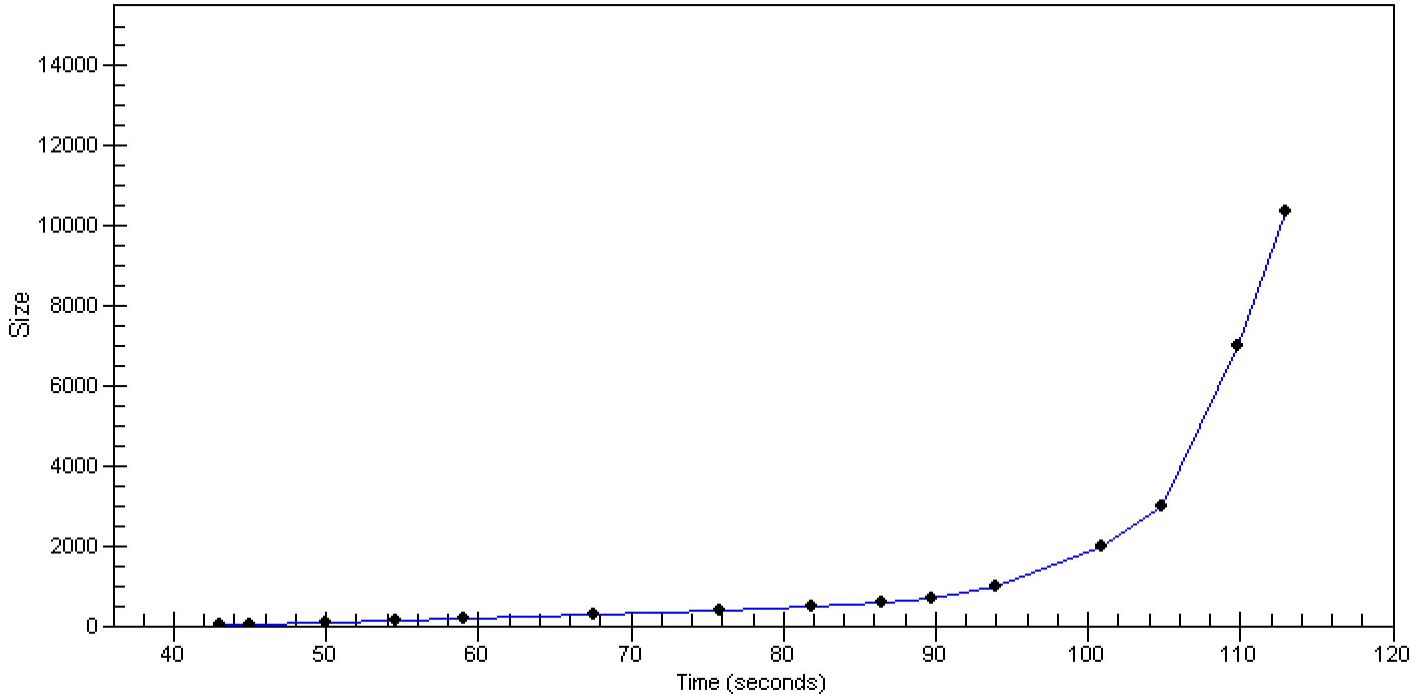


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
Modified: 10/1/2015 11:38:37 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2015-06-04\2015-06-04_001.xad

Created: 6/4/2015 11:00:29 AM
 Modified: 10/1/2015 11:38:37 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		6/4/2015 11:41:47 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-06-04\2015-06-04_001.xad)		Instrument	Run		6/4/2015 11:00:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/4/2015 11:00:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/4/2015 11:00:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/4/2015 11:00:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/4/2015 11:00:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/4/2015 11:00:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/4/2015 11:00:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1