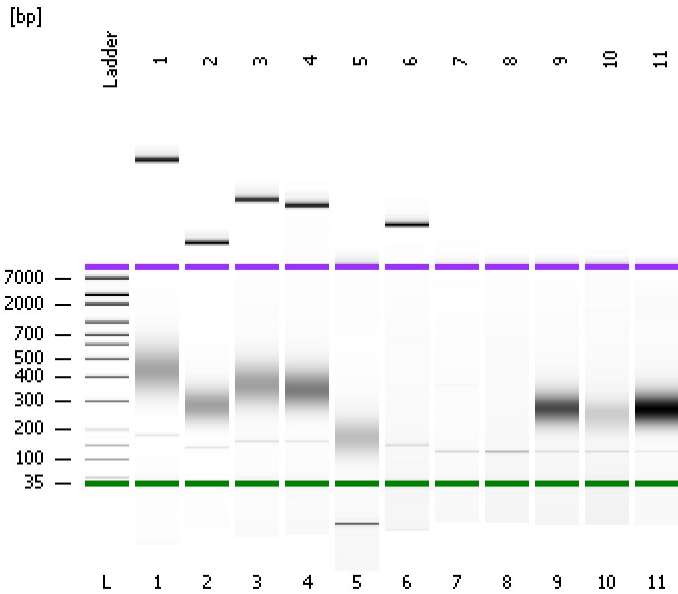


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
Modified: 7/18/2017 4:36:05 PM

Electrophoresis File Run Summary



Instrument Information:

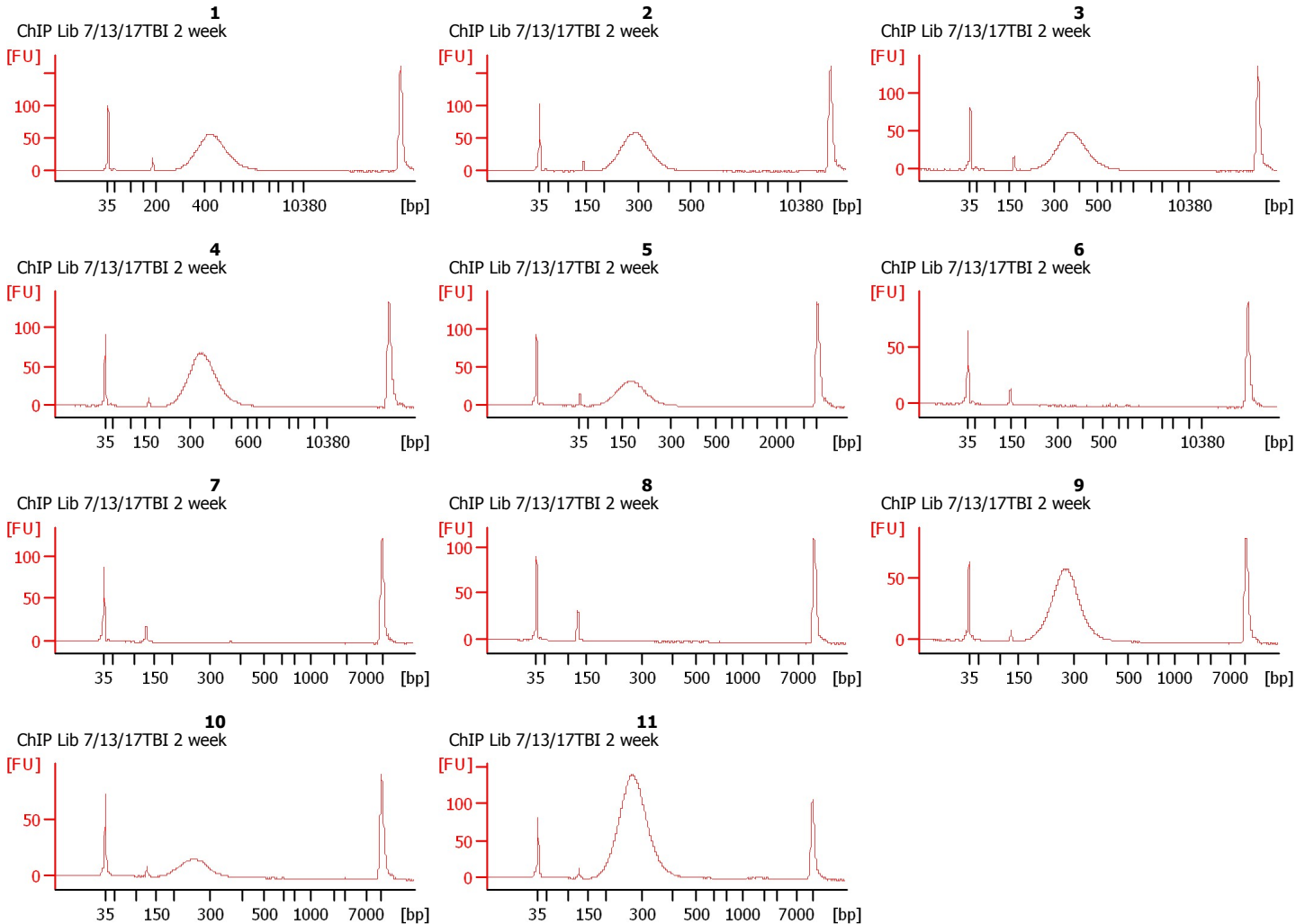
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
Modified: 7/18/2017 4:36:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
2	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
3	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
4	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
5	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
6	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
7	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
8	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
9	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
10	ChIP Lib 7/13/17TBI 2 week	<input type="checkbox"/>	✓			
11	ChIP Lib 7/13/17TBI 2 week	<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\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
Modified: 7/18/2017 4:36:05 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] : 0
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

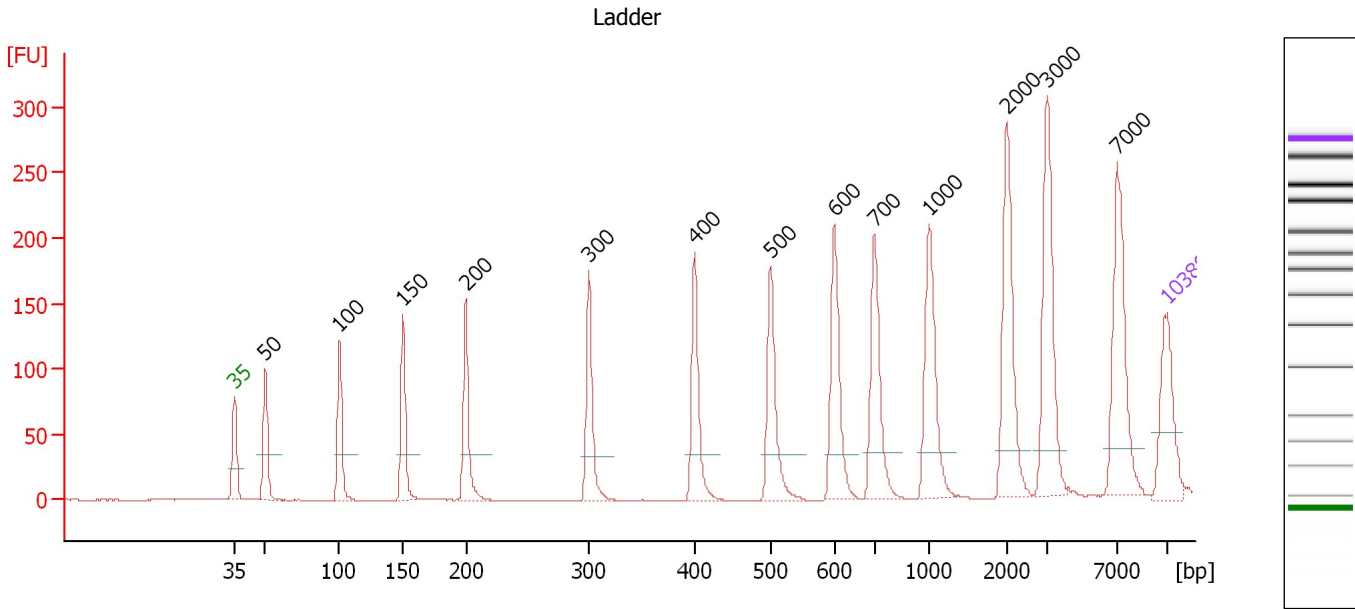
Ladder

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\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

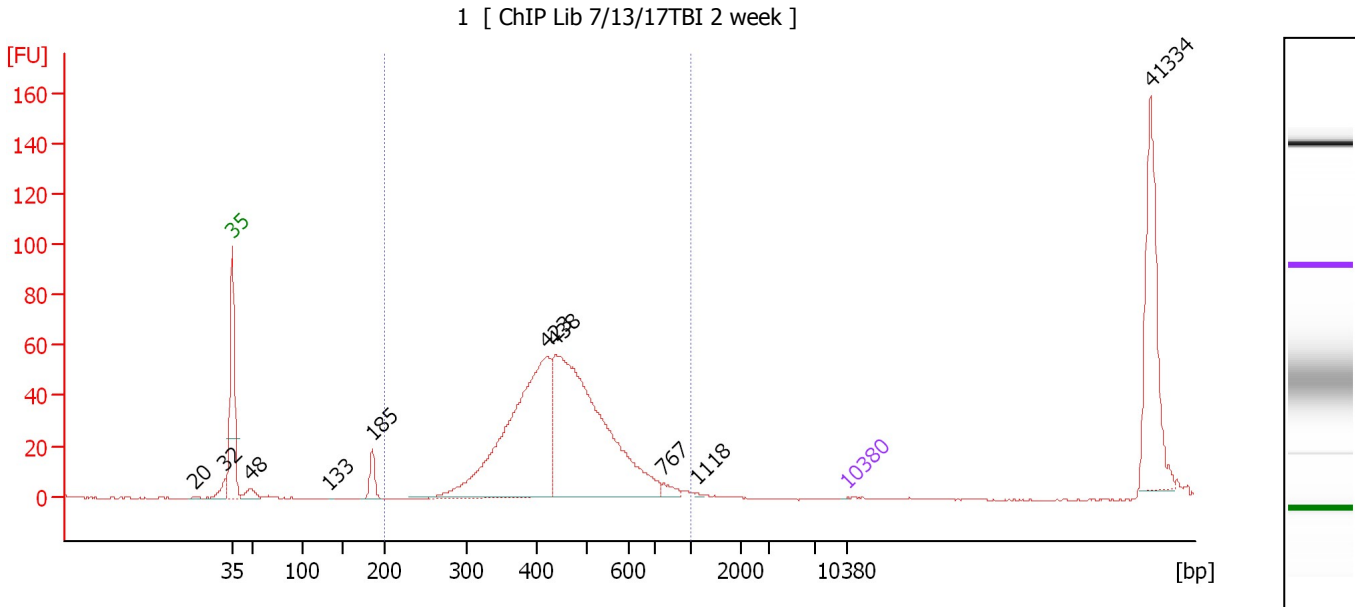
Peak table for Ladder

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	45.32
3	100	150.00	2,272.7	Ladder Peak	50.88
4	150	150.00	1,515.2	Ladder Peak	55.65
5	200	150.00	1,136.4	Ladder Peak	60.37
6	300	150.00	757.6	Ladder Peak	69.62
7	400	150.00	568.2	Ladder Peak	77.54
8	500	150.00	454.5	Ladder Peak	83.22
9	600	150.00	378.8	Ladder Peak	88.03
10	700	150.00	324.7	Ladder Peak	91.03
11	1,000	150.00	227.3	Ladder Peak	95.15
12	2,000	150.00	113.6	Ladder Peak	100.95
13	3,000	150.00	75.8	Ladder Peak	103.99
14	7,000	150.00	32.5	Ladder Peak	109.24
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1

Number of peaks found: 10 Corr. Area 1: 666.6
 Noise: 0.2

Peak table for sample 1 : 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	20	0.00	0.0		38.75
2	32	0.00	0.0		42.21
3	35	125.00	5,411.3	Lower Marker	43.00
4	48	9,316.08	294,467.9		45.00
5	133	268.51	3,056.0		54.04
6	185	17,556.80	143,789.5		58.95
7	423	264,896.53	948,744.9		78.85
8	438	313,262.22	1,083,692.4		79.70
9	767	6,254.49	12,351.3		91.95
10	1,118	736.84	998.7		95.83
11	10,380	75.00	10.9	Upper Marker	113.00
12	41,334	0.00	0.0		147.45

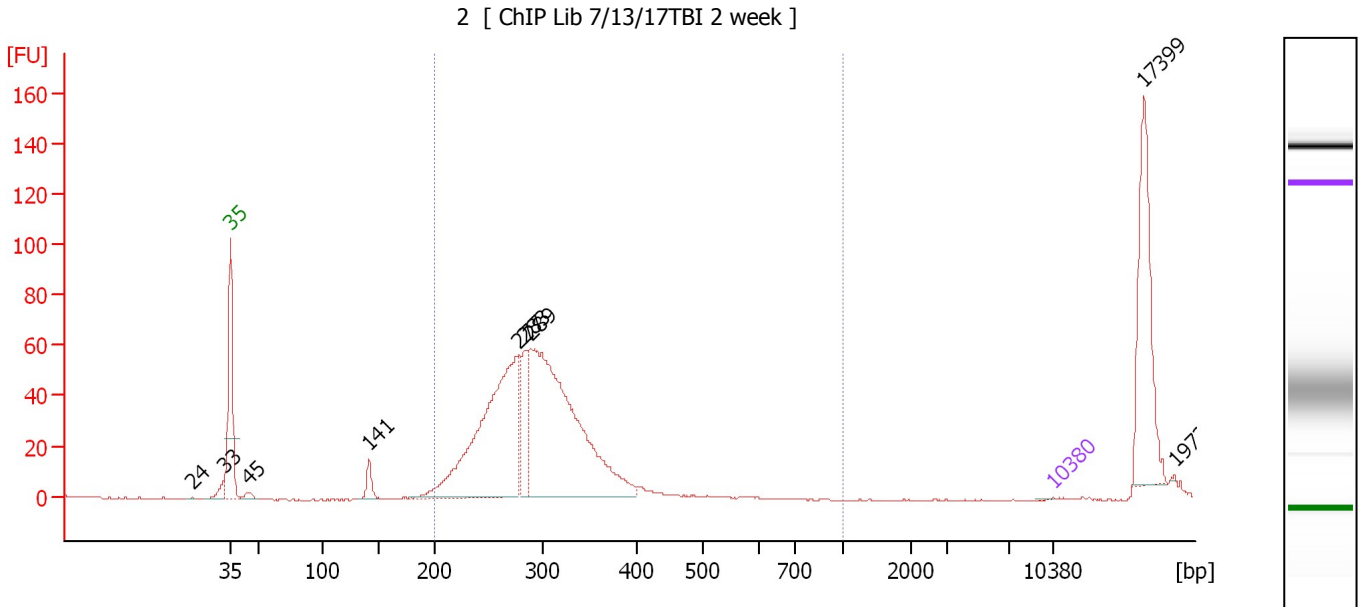
Region table for sample 1 : 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	452	666.6	1,845,365.9	528,037.25	80	18.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2

Number of peaks found: 9 Corr. Area 1: 744.8
 Noise: 0.2

Peak table for sample 2 : 2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	24	0.00	0.0		39.73
2	33	0.00	0.0		42.41
3	35	125.00	5,411.3	Lower Marker	43.00
4	45	1,870.14	63,409.4		44.50
5	141	5,100.42	54,909.4		54.77
6	277	90,431.63	493,862.3		67.53
7	283	15,804.94	84,517.3		68.07
8	289	116,738.27	612,576.3		68.57
9	10,380	75.00	10.9	Upper Marker	113.00
10	17,399	0.00	0.0		120.81
11	19,726	0.00	0.0		123.40

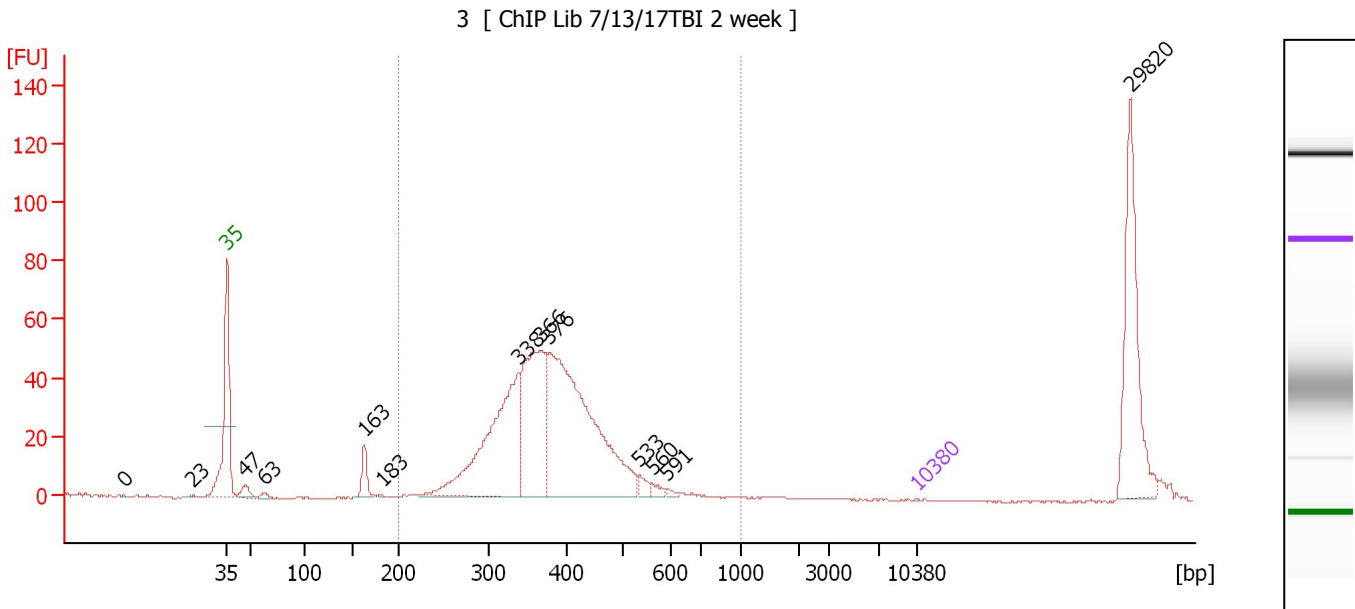
Region table for sample 2 : 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	292	744.8	1,152,500.8	217,717.89	80	14.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3

Number of peaks found: 13 Corr. Area 1: 668.0
 Noise: 0.2

Peak table for sample 3 : 3

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		32.51
2	23	0.00	0.0		39.54
3	35	125.00	5,411.3	Lower Marker	43.00
4	47	6,333.33	204,669.9		44.84
5	63	1,983.80	47,581.8		46.79
6	163	11,339.26	105,215.0		56.90
7	183	287.37	2,382.3		58.74
8	338	103,249.41	463,460.1		72.59
9	366	80,806.61	334,323.1		74.86
10	376	157,520.42	633,986.3		75.67
11	533	3,861.07	10,972.3		84.82
12	560	2,294.11	6,204.7		86.11
13	591	1,343.38	3,446.3		87.57
14	10,380	75.00	10.9	Upper Marker	113.00
15	29,820	0.00	0.0		134.64

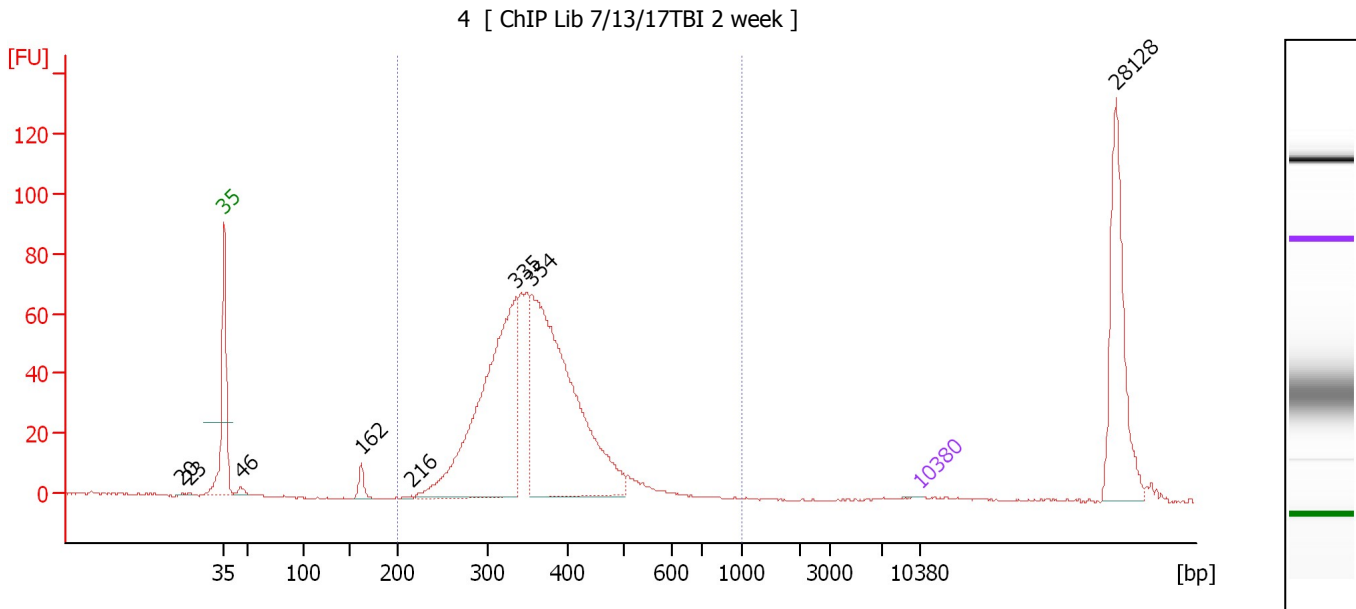
Region table for sample 3 : 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	381	668.0	1,476,481.3	356,556.72	80	17.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4

Number of peaks found: 8 Corr. Area 1: 870.3
 Noise: 0.3

Peak table for sample 4 : 4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	20	0.00	0.0		38.76
2	23	0.00	0.0		39.46
3	35	125.00	5,411.3	Lower Marker	43.00
4	46	5,361.87	177,562.3		44.66
5	162	12,556.14	117,317.2		56.80
6	216	952.02	6,680.4		61.84
7	335	331,303.22	1,499,859.5		72.36
8	354	383,950.72	1,641,832.1		73.92
9	10,380	75.00	10.9	Upper Marker	113.00
10	28,128	0.00	0.0		132.75

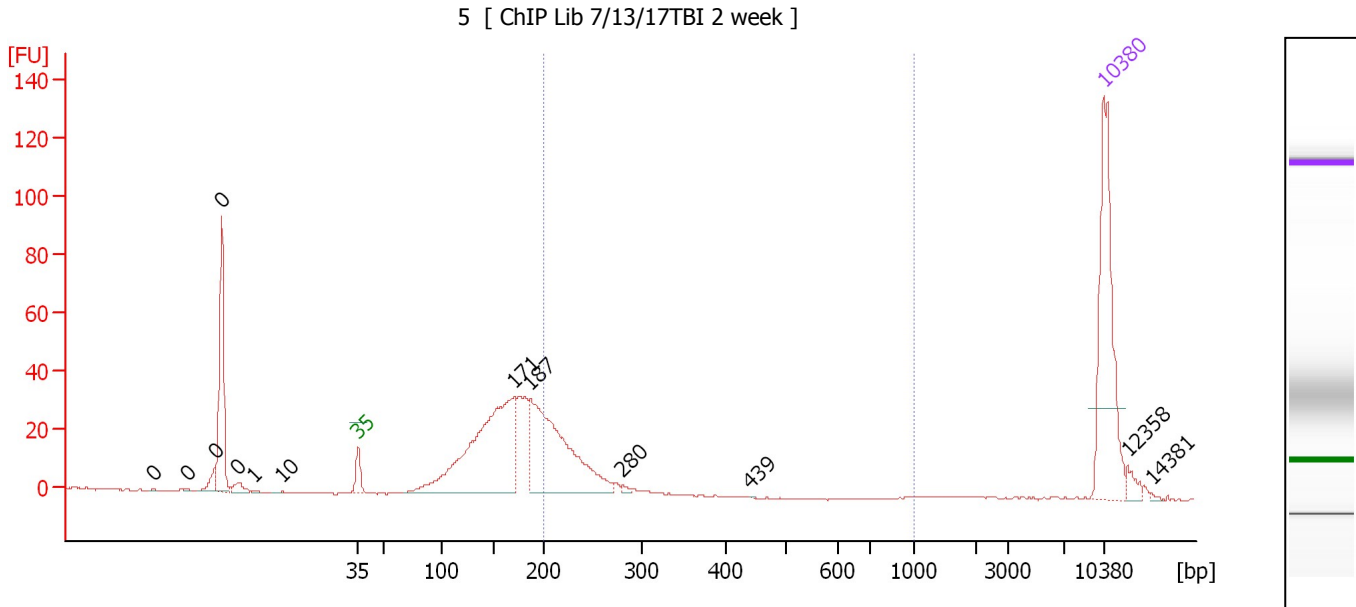
Region table for sample 4 : 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	360	870.3	3,574,543.5	819,848.75	84	17.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5

Number of peaks found: 13 Corr. Area 1: 119.0
 Noise: 0.2

Peak table for sample 5 : 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	0	0.00	0.0		23.84
2	0	0.00	0.0		26.94
3	0	0.00	0.0		29.59
4	0	0.00	0.0		30.19
5	0	0.00	0.0		31.74
6	1	0.00	0.0		33.24
7	10	0.00	0.0		35.84
8	35	125.00	5,411.3	Lower Marker	43.00
9	171	195.24	1,732.1		57.61
10	187	155.95	1,262.1		59.16
11	280	1.64	8.9		67.77
12	439	0.10	0.3		79.78
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,358	0.00	0.0		115.20
15	14,381	0.00	0.0		117.45

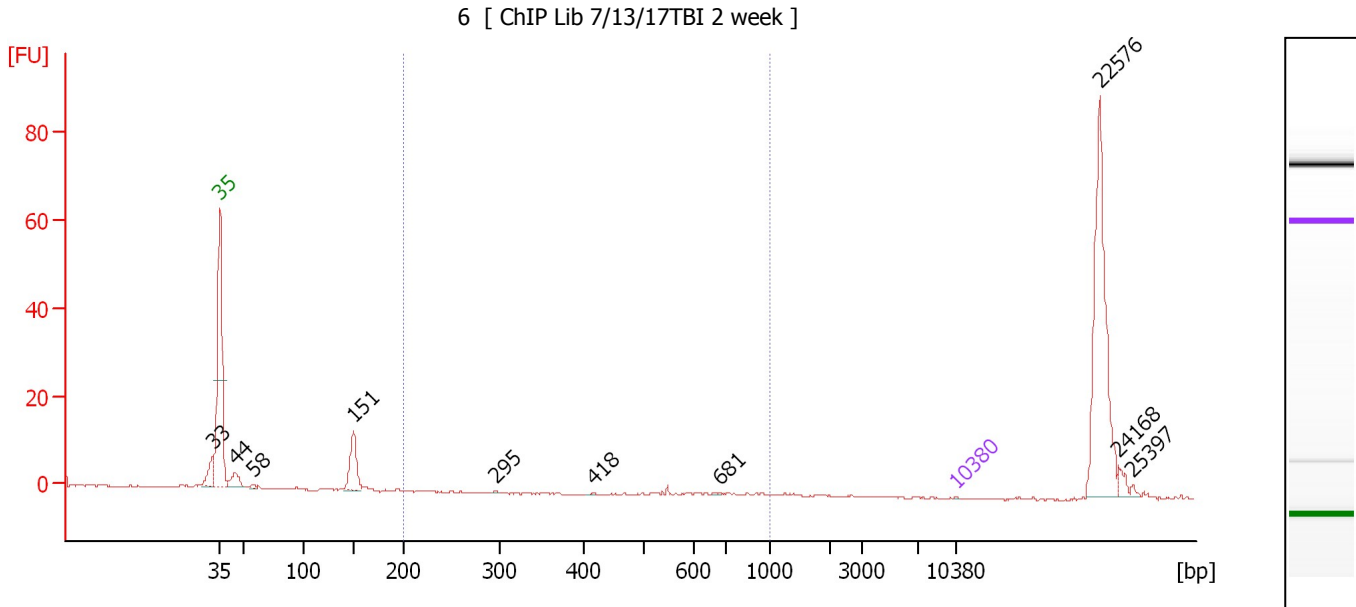
Region table for sample 5 : 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	228	119.0	696.2	104.70	22	10.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6

Number of peaks found: 10 Corr. Area 1: 0.3
 Noise: 0.2

Peak table for sample 6 : 6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.34
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	6,694.14	227,966.9		44.47
4	58	830.78	21,771.6		46.19
5	151	16,572.91	166,624.0		55.71
6	295	222.75	1,144.8		69.14
7	418	144.75	524.8		78.56
8	681	117.92	262.3		90.46
9	10,380	75.00	10.9	Upper Marker	113.00
10	22,576	0.00	0.0		126.57
11	24,168	0.00	0.0		128.35
12	25,397	0.00	0.0		129.71

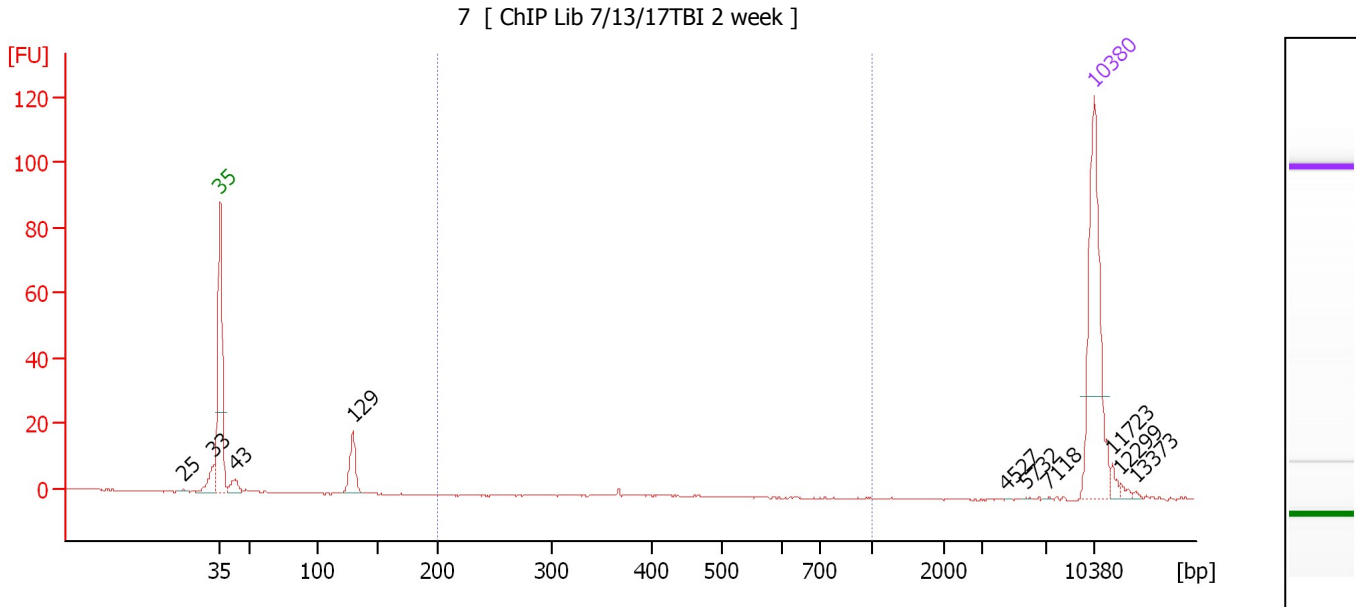
Region table for sample 6 : 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	558	0.3	584.6	213.86	0	6.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 7

Number of peaks found: 10 Corr. Area 1: 0.3
 Noise: 0.2

Peak table for sample 7 : 7

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	25	0.00	0.0		40.05
2	33	0.00	0.0		42.44
3	35	125.00	5,411.3	Lower Marker	43.00
4	43	9.44	334.7		44.20
5	129	25.79	302.2		53.68
6	4,527	0.07	0.0		106.00
7	5,732	0.15	0.0		107.58
8	7,118	0.11	0.0		109.37
9	10,380	75.00	10.9	Upper Marker	113.00
10	11,723	0.00	0.0		114.49
11	12,299	0.00	0.0		115.14
12	13,373	0.00	0.0		116.33

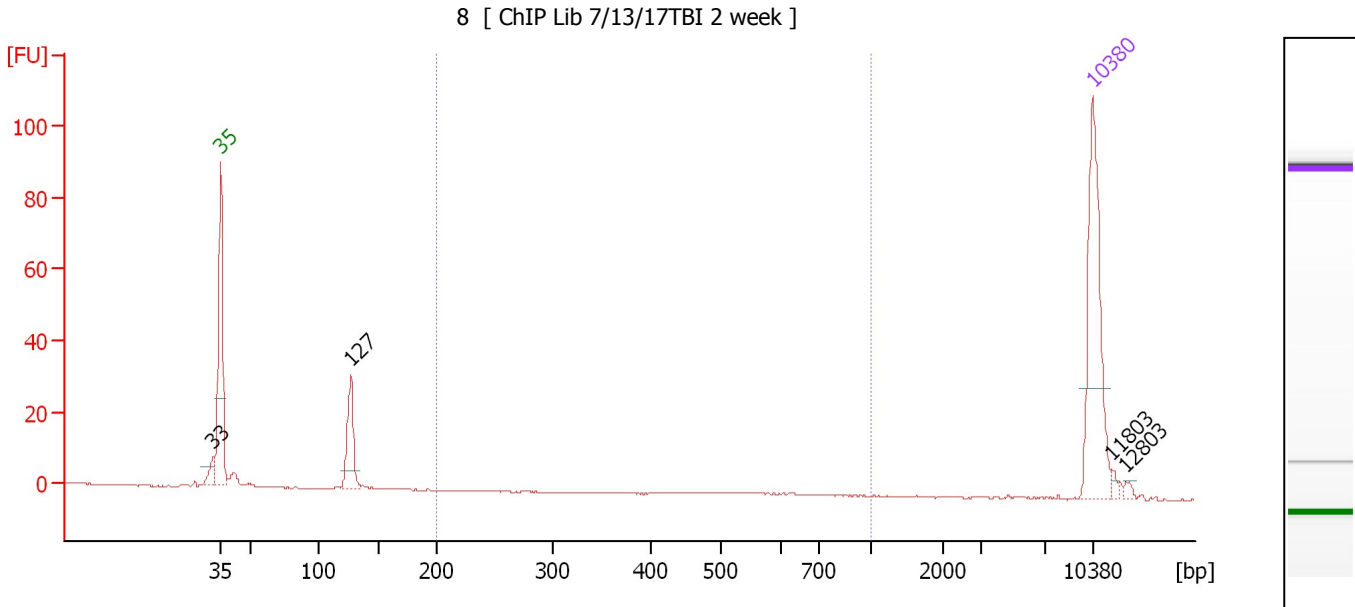
Region table for sample 7 : 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	367	0.3	1.2	0.30	1	0.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : 8

Height Threshold [FU] : 5

Overall Results for sample 8 : 8

Number of peaks found: 4 Corr. Area 1: 1.7
 Noise: 0.2

Peak table for sample 8 : 8

Pea k	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.40
2	35	125.00	5,411.3	Lower Marker	43.00
3	127	48.24	576.0		53.45
4	10,380	75.00	10.9	Upper Marker	113.00
5	11,803	0.00	0.0		114.58
6	12,803	0.00	0.0		115.70

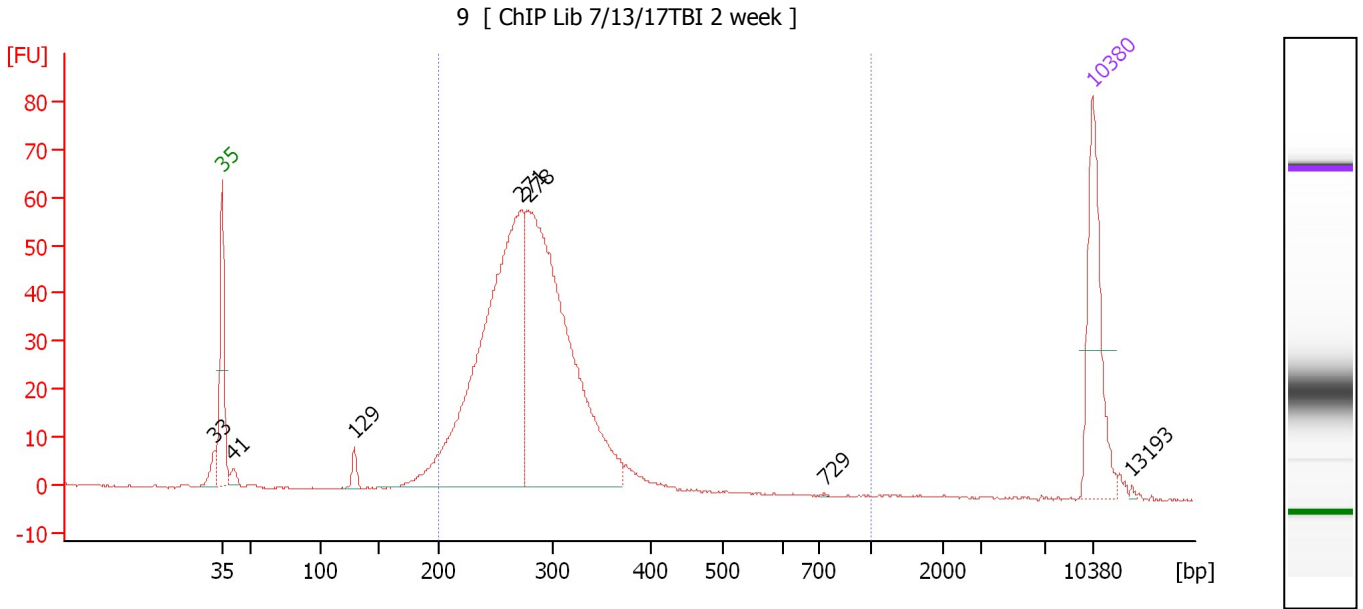
Region table for sample 8 : 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	573	1.7	4.2	1.53	3	16.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 9

Number of peaks found: 7 Corr. Area 1: 745.4
 Noise: 0.1

Peak table for sample 9 : 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.40
2	35	125.00	5,411.3	Lower Marker	43.00
3	41	8.74	324.5		43.90
4	129	12.15	142.8		53.64
5	271	486.58	2,720.5		66.93
6	278	481.66	2,625.5		67.58
7	729	0.27	0.6		91.43
8	10,380	75.00	10.9	Upper Marker	113.00
9	13,193	0.00	0.0		116.13

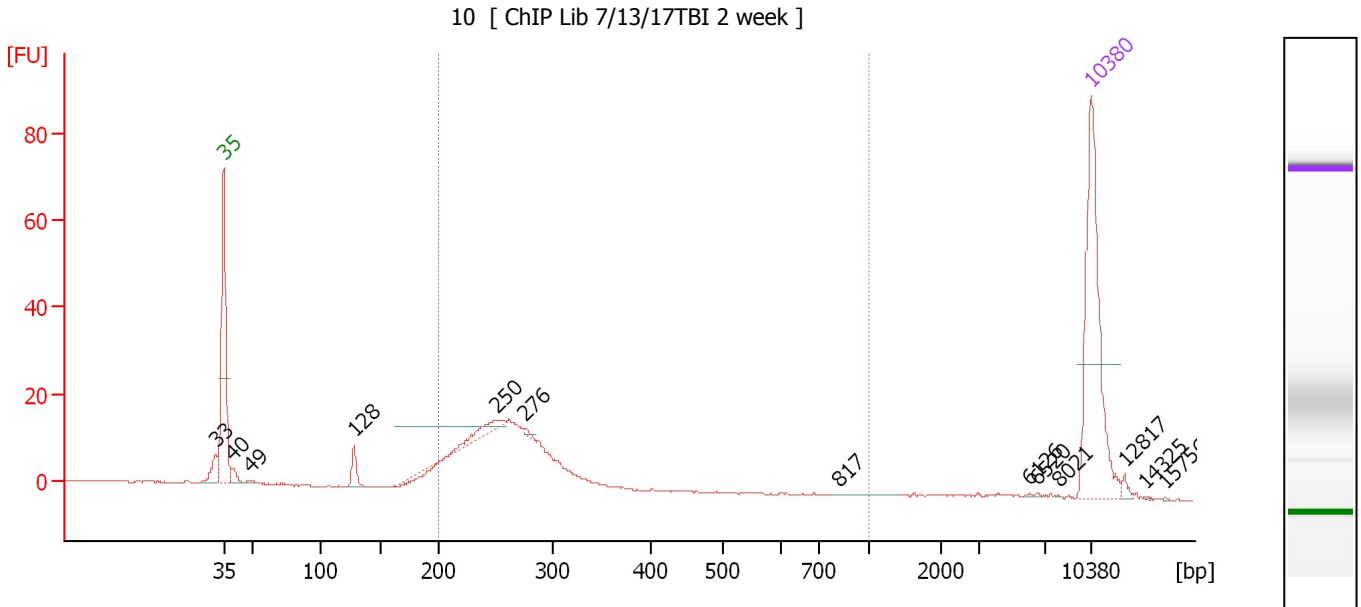
Region table for sample 9 : 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	282	745.4	5,437.4	991.60	94	14.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 10

Number of peaks found: 13 Corr. Area 1: 201.4
 Noise: 0.1

Peak table for sample 10 : 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.35
2	35	125.00	5,411.3	Lower Marker	43.00
3	40	7.05	268.8		43.73
4	49	1.56	48.7		45.11
5	128	11.34	134.3		53.55
6	250	10.31	62.6		64.96
7	276	1.51	8.3		67.37
8	817	0.21	0.4		92.64
9	6,126	0.21	0.1		108.09
10	6,520	0.28	0.1		108.61
11	8,021	0.10	0.0		110.37
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,817	0.00	0.0		115.71
14	14,325	0.00	0.0		117.39
15	15,756	0.00	0.0		118.98

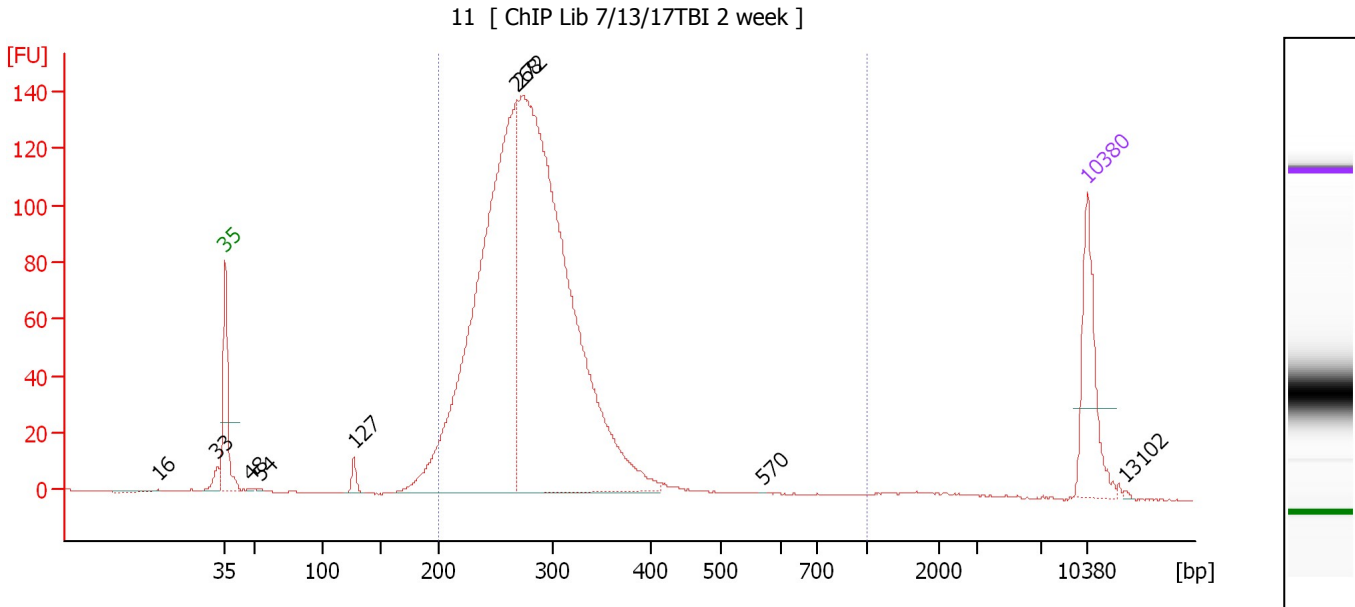
Region table for sample 10 : 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	262	201.4	1,410.4	240.56	80	15.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
 Modified: 7/18/2017 4:36:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 11

Number of peaks found: 9 Corr. Area 1: 1,829.2
 Noise: 0.1

Peak table for sample 11 : 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	16	0.00	0.0		37.50
2	33	0.00	0.0		42.35
3	35	125.00	5,411.3	Lower Marker	43.00
4	48	0.87	27.3		45.08
5	54	1.27	35.5		45.77
6	127	13.76	164.4		53.43
7	268	858.17	4,855.7		66.64
8	272	1,099.42	6,134.9		66.98
9	570	0.10	0.3		86.59
10	10,380	75.00	10.9	Upper Marker	113.00
11	13,102	0.00	0.0		116.03

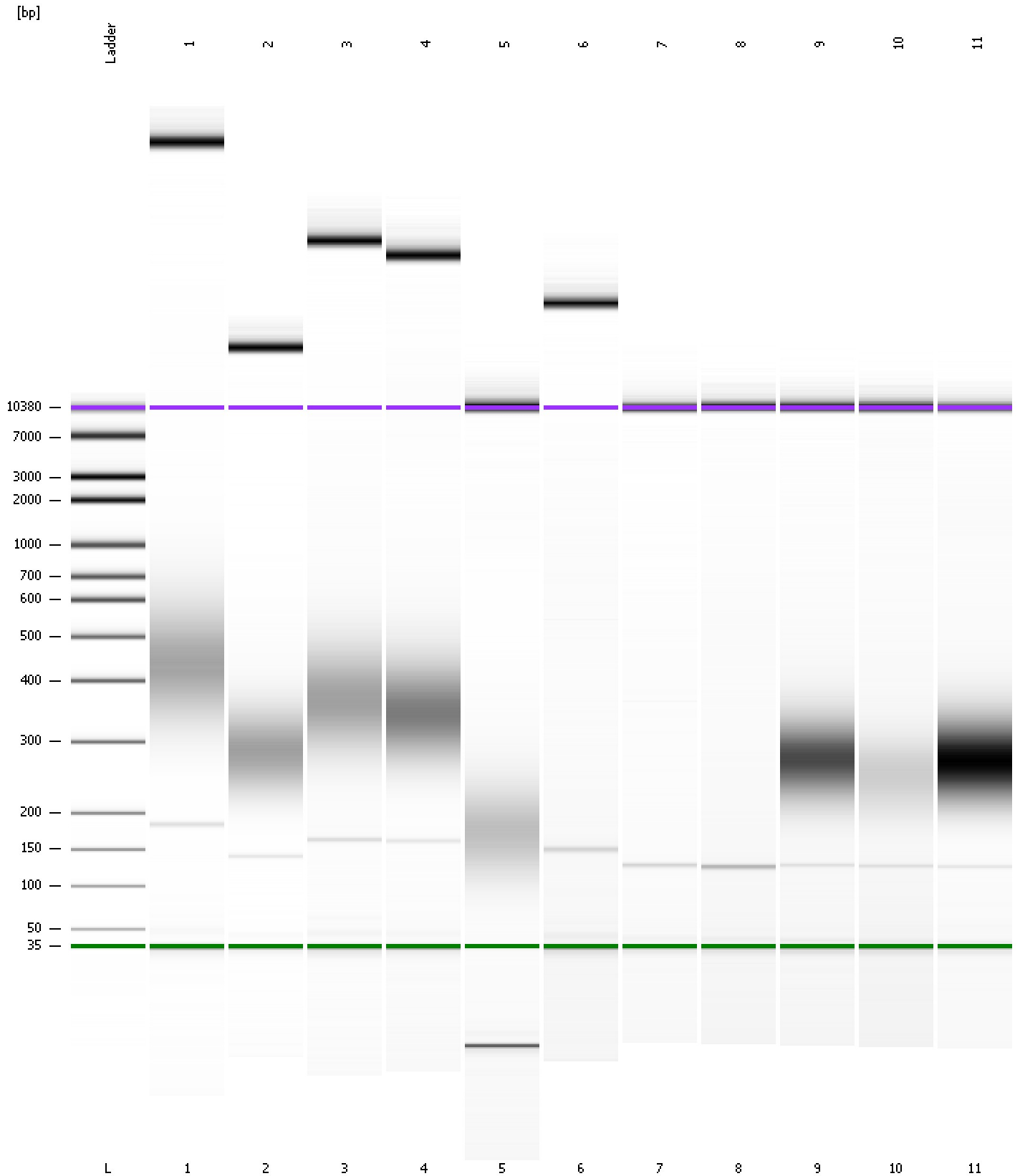
Region table for sample 11 : 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	285	1,829.2	10,669.5	1,943.78	95	21.1

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
Modified: 7/18/2017 4:36:05 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-18\2017-07-18_003.xad

Created: 7/18/2017 3:50:36 PM
Modified: 7/18/2017 4:36:05 PM

Curves

Standard Curve

