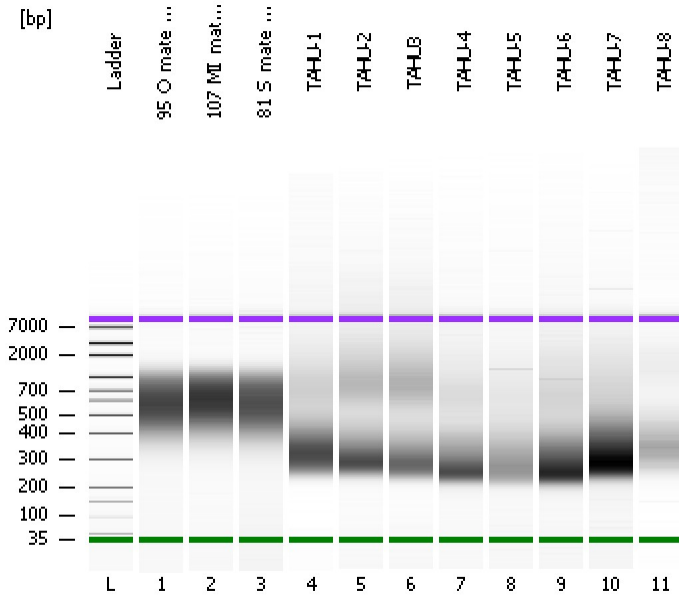


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
Modified: 6/4/2015 9:58:48 PM

Electrophoresis File Run Summary



Instrument Information:

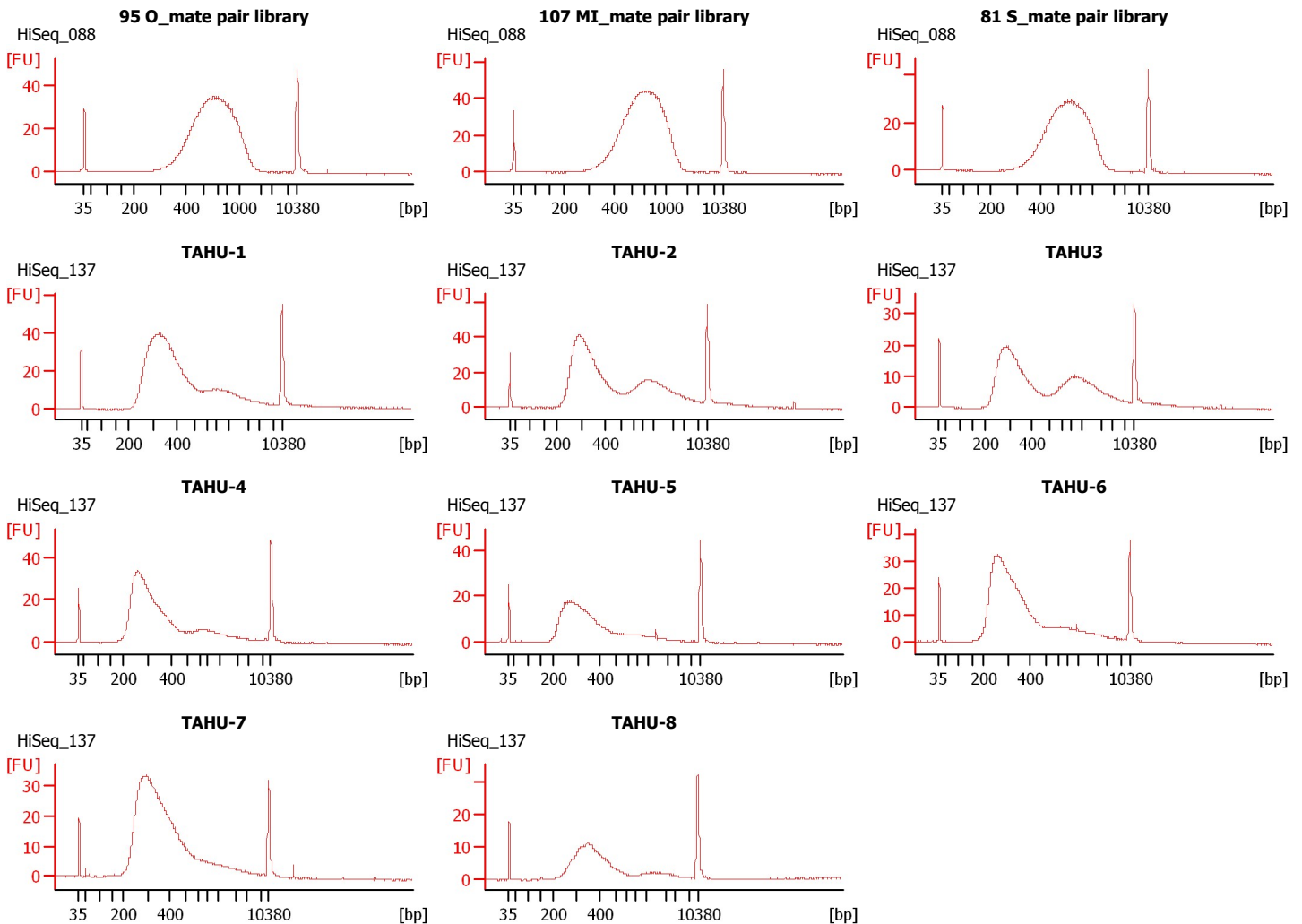
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 9:58:48 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
95 O_mate pair library	HiSeq_088	<input type="checkbox"/>	✓			
107 MI_mate pair library	HiSeq_088	<input type="checkbox"/>	✓			
81 S_mate pair library	HiSeq_088	<input type="checkbox"/>	✓			
TAHU-1	HiSeq_137	<input type="checkbox"/>	✓			
TAHU-2	HiSeq_137	<input type="checkbox"/>	✓			
TAHU3	HiSeq_137	<input type="checkbox"/>	✓			
TAHU-4	HiSeq_137	<input type="checkbox"/>	✓			
TAHU-5	HiSeq_137	<input type="checkbox"/>	✓			
TAHU-6	HiSeq_137	<input type="checkbox"/>	✓			
TAHU-7	HiSeq_137	<input type="checkbox"/>	✓			
TAHU-8	HiSeq_137	<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\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
Modified: 6/4/2015 9:58:48 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

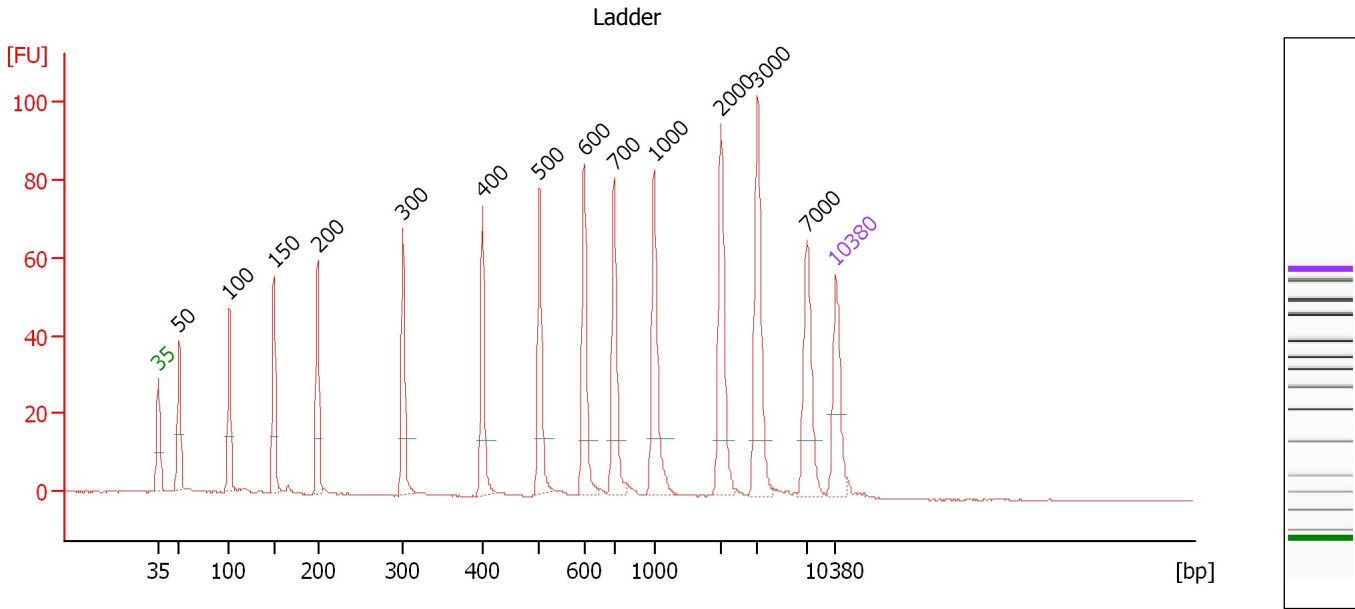
Ladder

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\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

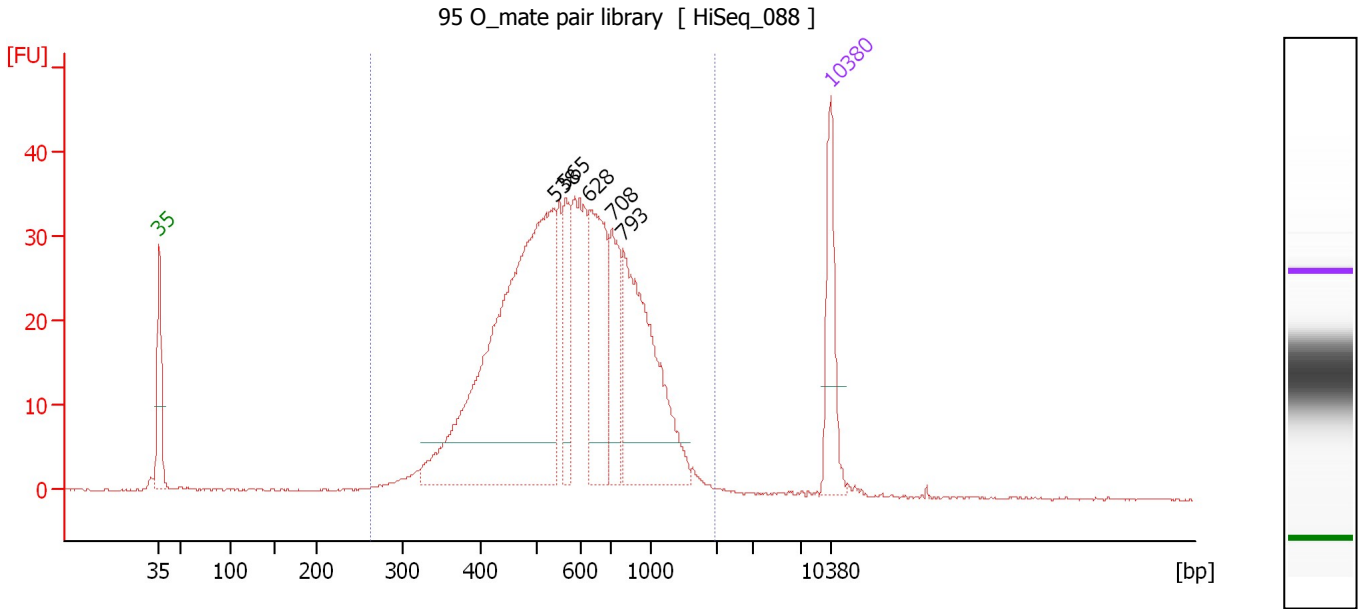
Peak table for Ladder

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	45.15
3	100	150.00	2,272.7	Ladder Peak	50.32
4	150	150.00	1,515.2	Ladder Peak	54.95
5	200	150.00	1,136.4	Ladder Peak	59.47
6	300	150.00	757.6	Ladder Peak	68.28
7	400	150.00	568.2	Ladder Peak	76.49
8	500	150.00	454.5	Ladder Peak	82.38
9	600	150.00	378.8	Ladder Peak	87.00
10	700	150.00	324.7	Ladder Peak	90.09
11	1,000	150.00	227.3	Ladder Peak	94.22
12	2,000	150.00	113.6	Ladder Peak	101.10
13	3,000	150.00	75.8	Ladder Peak	104.90
14	7,000	150.00	32.5	Ladder Peak	109.97
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : 95 O_mate pair library

Number of peaks found: 5 Corr. Area 1: 701.6
 Noise: 0.1

Peak table for sample 1 : 95 O_mate pair library

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	538	682.16	1,920.6		84.14
3	565	70.75	189.9		85.37
4	628	176.68	426.3		87.87
5	708	96.32	206.0		90.20
6	793	266.80	509.6		91.37
7	10,380	75.00	10.9	Upper Marker	113.00

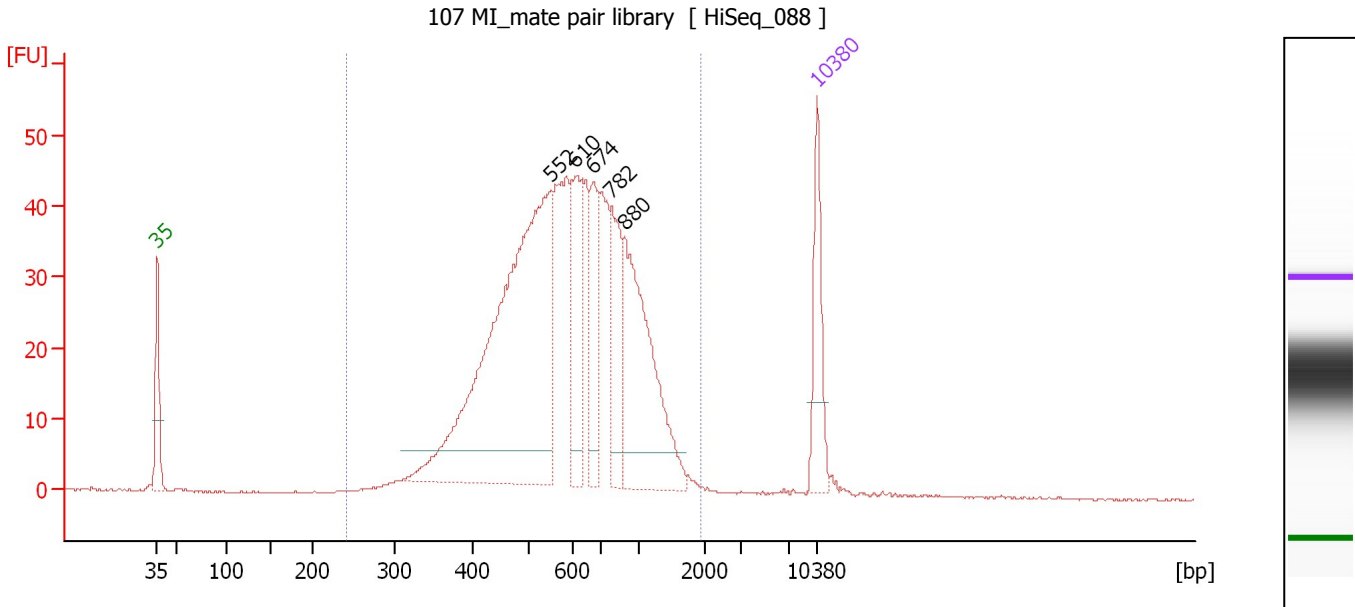
Region table for sample 1 : 95 O_mate pair library

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
264	636	1,971	701.6	4,690.7	97	39.1	1,694.98

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 107 MI_mate pair library

Number of peaks found: 5 Corr. Area 1: 867.1
 Noise: 0.2

Peak table for sample 2 : 107 MI_mate pair library

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	552	707.78	1,944.4		84.76
3	610	118.82	295.2		87.31
4	674	88.86	199.7		89.29
5	782	108.07	209.5		91.21
6	880	257.19	442.7		92.57
7	10,380	75.00	10.9	Upper Marker	113.00

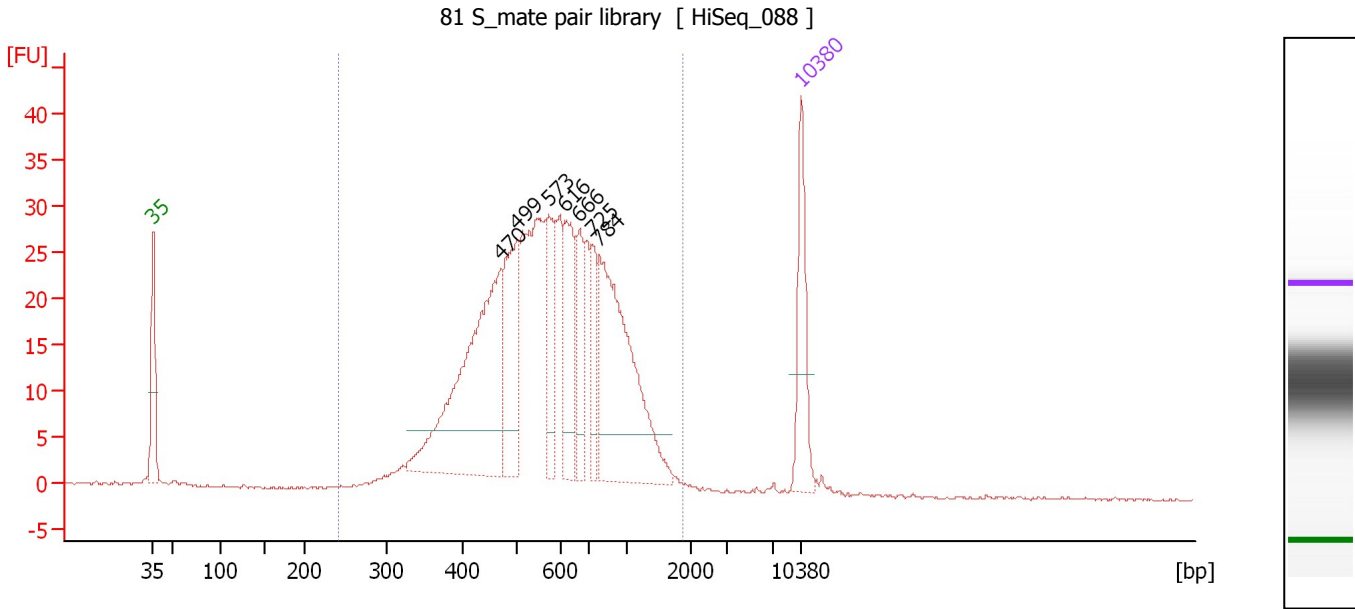
Region table for sample 2 : 107 MI_mate pair library

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
242	661	1,950	867.1	4,980.8	98	39.0	1,864.43

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 81 S_mate pair library

Number of peaks found: 7 Corr. Area 1: 601.9
 Noise: 0.1

Peak table for sample 3 : 81 S_mate pair library

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	470	367.82	1,186.6		80.59
3	499	146.40	444.6		82.32
4	573	78.56	207.6		85.77
5	616	101.59	249.9		87.50
6	666	67.40	153.2		89.05
7	725	58.63	122.5		90.43
8	784	276.68	535.0		91.24
9	10,380	75.00	10.9	Upper Marker	113.00

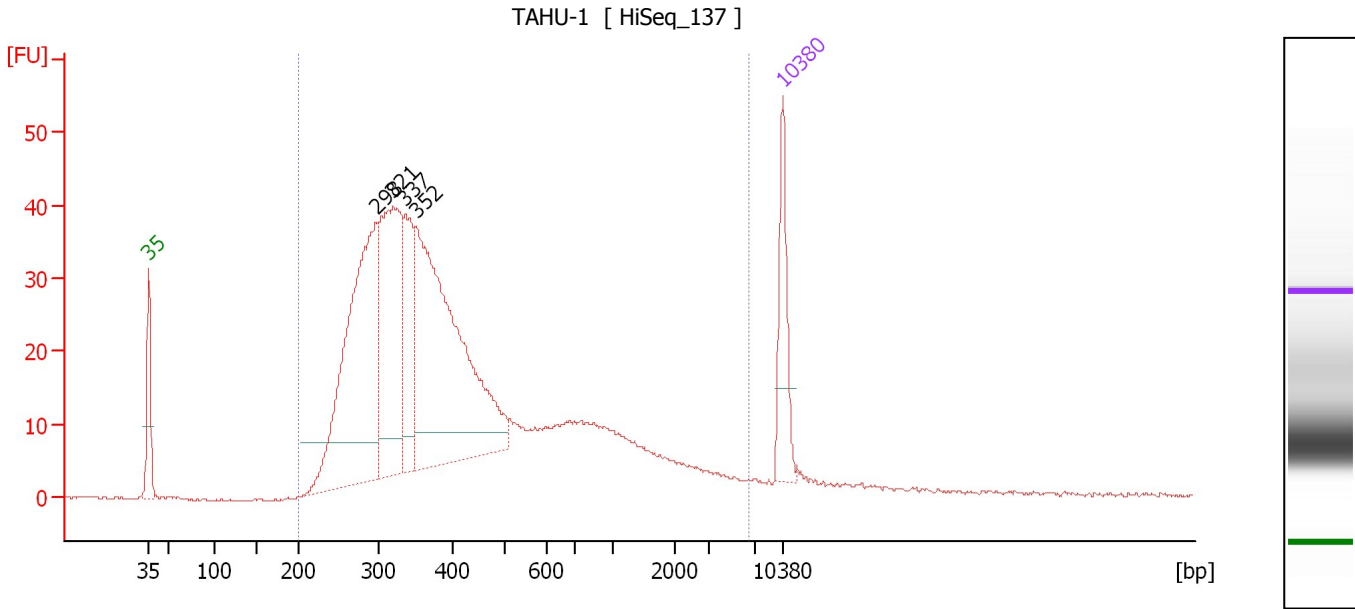
Region table for sample 3 : 81 S_mate pair library

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
240	635	1,886	601.9	4,612.1	98	38.9	1,661.03

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 4 : TAHU-1

Number of peaks found: 4 Corr. Area 1: 902.3
 Noise: 0.1

Peak table for sample 4 : TAHU-1

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	298	507.62	2,577.4		68.14
3	321	339.93	1,606.9		69.96
4	337	136.21	612.4		71.32
5	352	571.19	2,458.0		72.55
6	10,380	75.00	10.9	Upper Marker	113.00

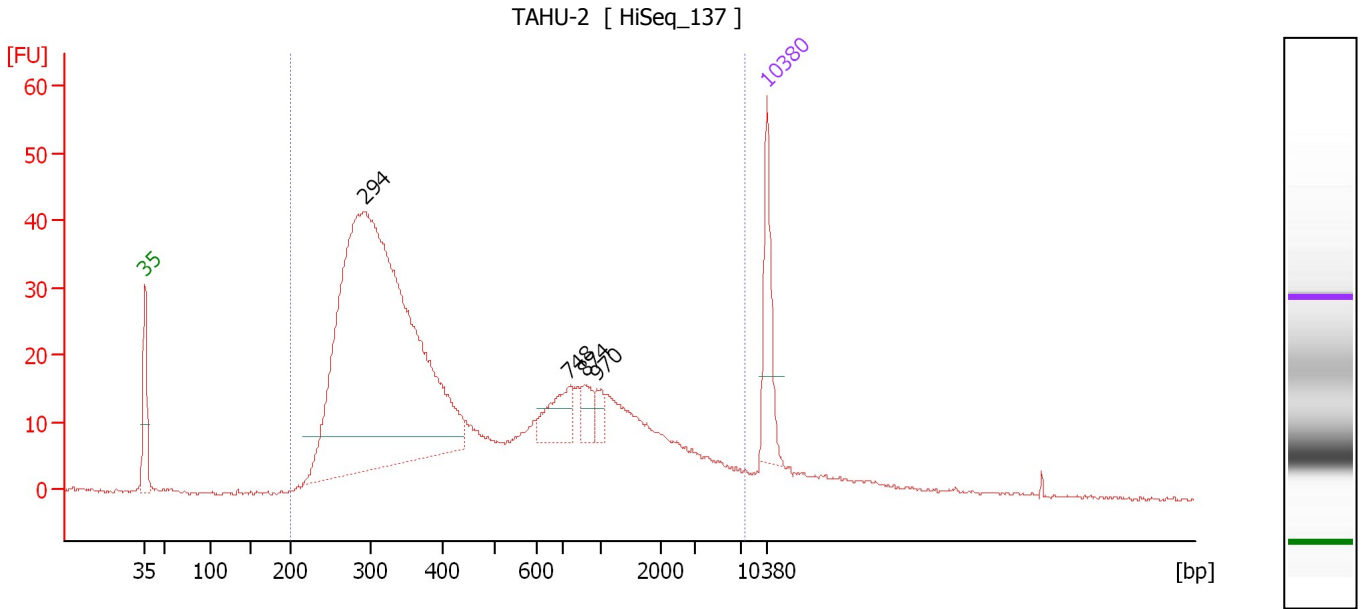
Region table for sample 4 : TAHU-1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	583	6,531	902.3	8,976.1	97	100.0	2,189.12

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 5 : TAHU-2

Number of peaks found: 4 Corr. Area 1: 915.3
 Noise: 0.3

Peak table for sample 5 : TAHU-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	294	1,407.23	7,262.8		67.71
3	748	56.37	114.2		90.75
4	874	24.74	42.9		92.49
5	970	16.11	25.2		93.81
6	10,380	75.00	10.9	Upper Marker	113.00

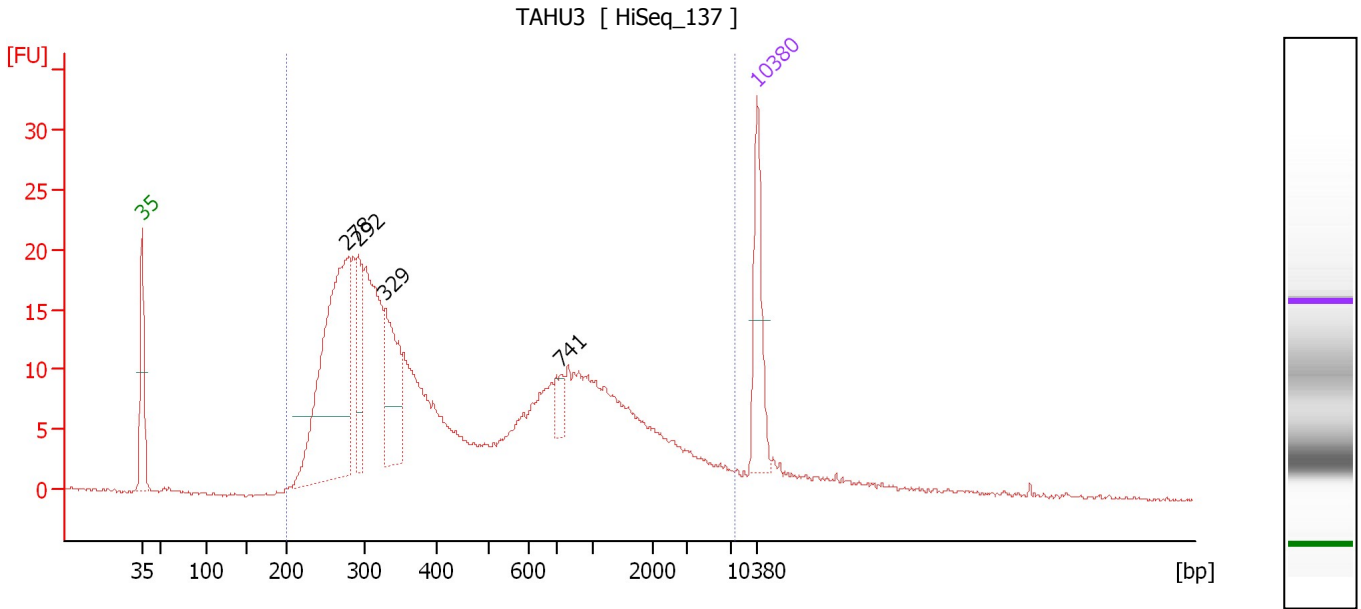
Region table for sample 5 : TAHU-2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	780	7,649	915.3	8,970.5	95	100.0	2,259.97

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 9:58:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TAHU3

Number of peaks found: 4 Corr. Area 1: 489.2
 Noise: 0.1

Peak table for sample 6 : TAHU3

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	278	395.16	2,156.1		66.31
3	292	83.21	431.5		67.59
4	329	126.30	581.1		70.68
5	741	21.50	43.9		90.66
6	10,380	75.00	10.9	Upper Marker	113.00

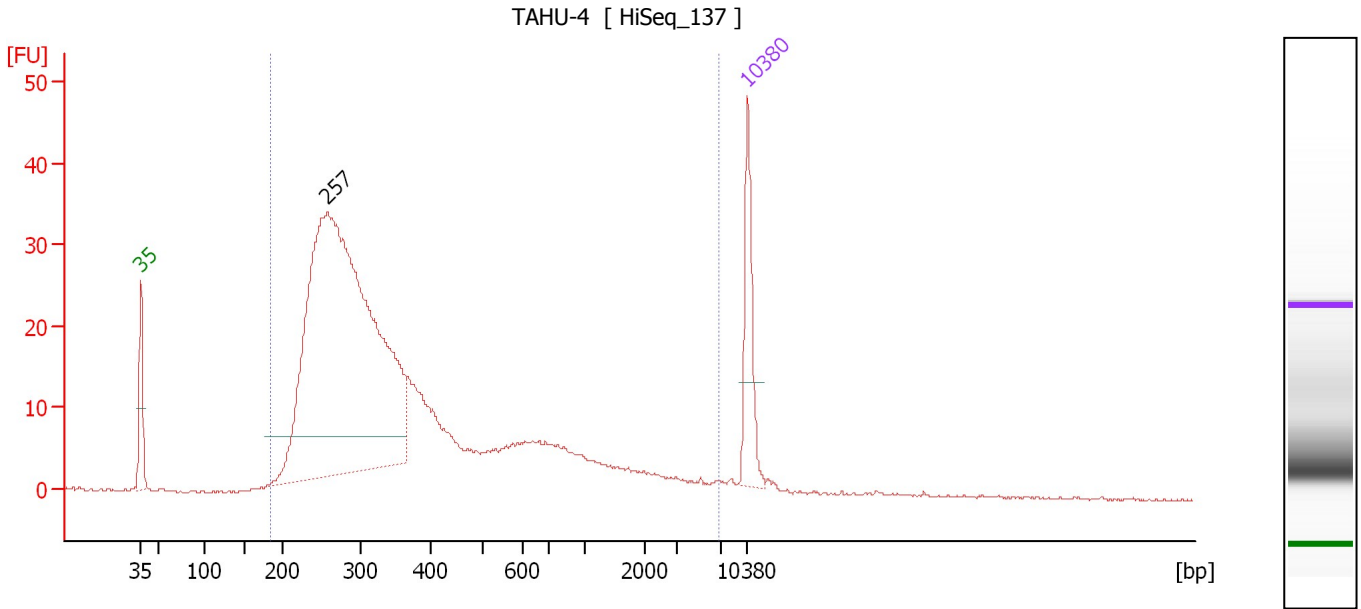
Region table for sample 6 : TAHU3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	819	7,506	489.2	7,407.2	95	100.0	1,879.90

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 9:58:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : TAHU-4

Number of peaks found: 1 Corr. Area 1: 644.5
 Noise: 0.2

Peak table for sample 7 : TAHU-4

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	257	1,318.71	7,761.2		64.53
3	10,380	75.00	10.9	Upper Marker	113.00

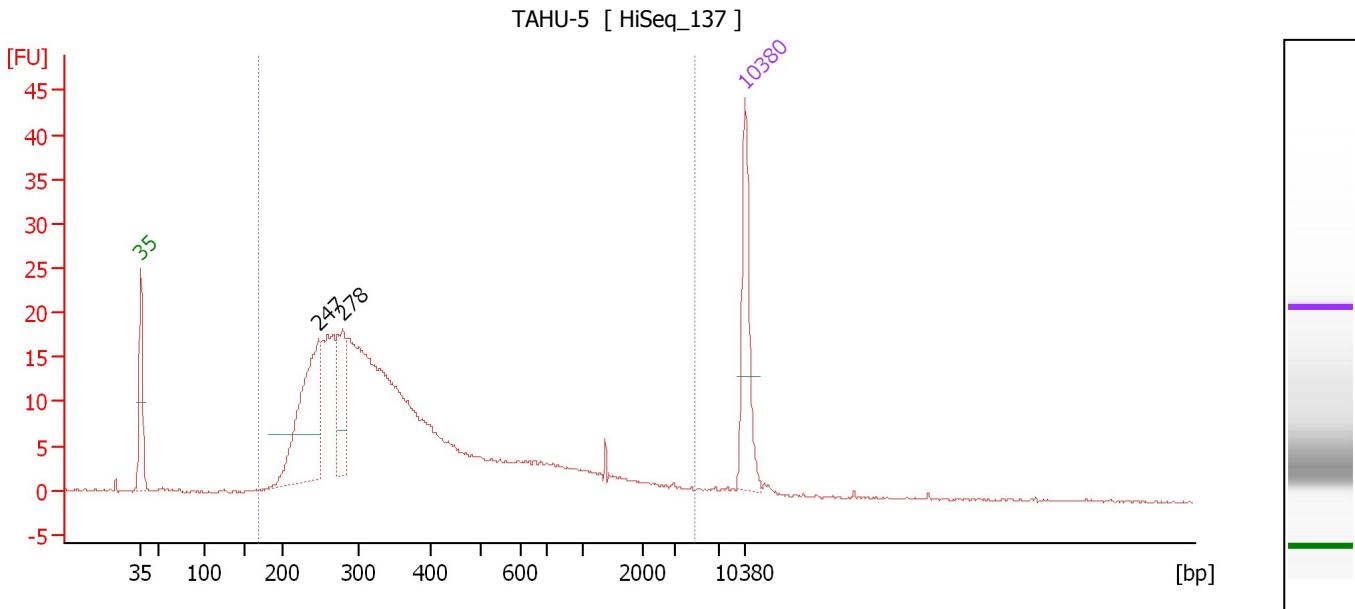
Region table for sample 7 : TAHU-4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
183	515	6,802	644.5	9,039.6	98	100.0	1,890.20

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : TAHU-5

Number of peaks found: 2 Corr. Area 1: 408.1
 Noise: 0.1

Peak table for sample 8 : TAHU-5

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	247	211.92	1,299.5		63.62
3	278	85.04	463.6		66.33
4	10,380	75.00	10.9	Upper Marker	113.00

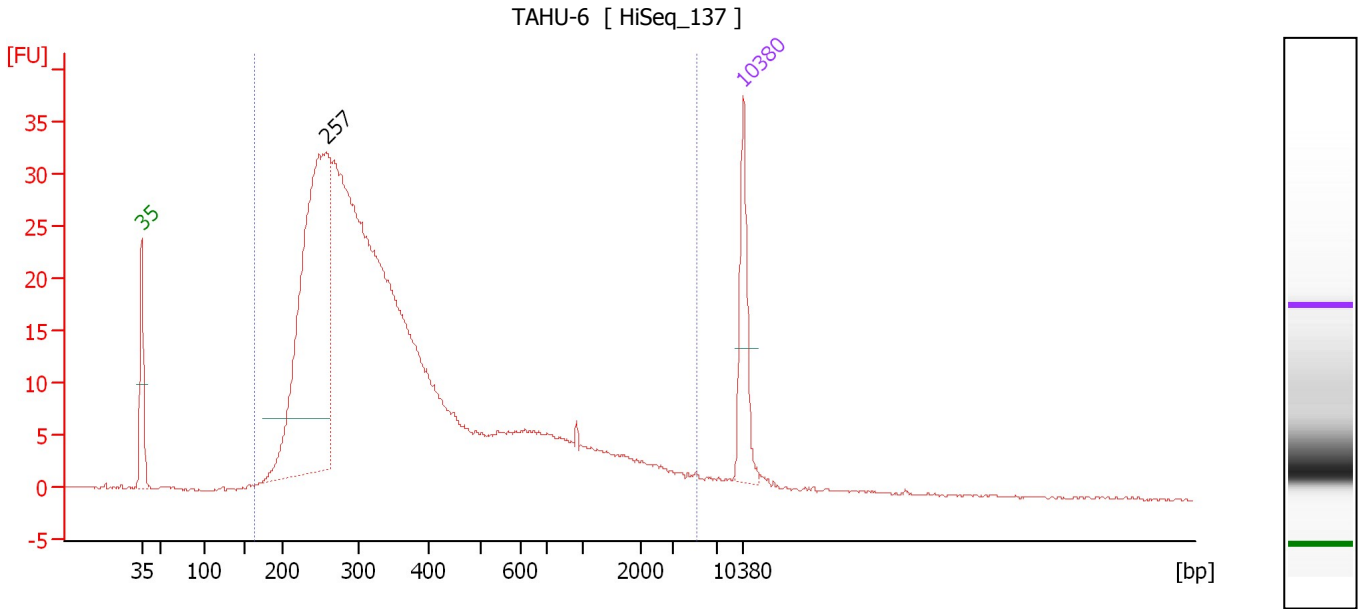
Region table for sample 8 : TAHU-5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
170	470	4,776	408.1	5,903.2	98	98.9	1,250.26

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 9:58:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : TAHU-6

Number of peaks found: 1 Corr. Area 1: 679.0
 Noise: 0.1

Peak table for sample 9 : TAHU-6

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	257	700.32	4,132.1		64.47
3	10,380	75.00	10.9	Upper Marker	113.00

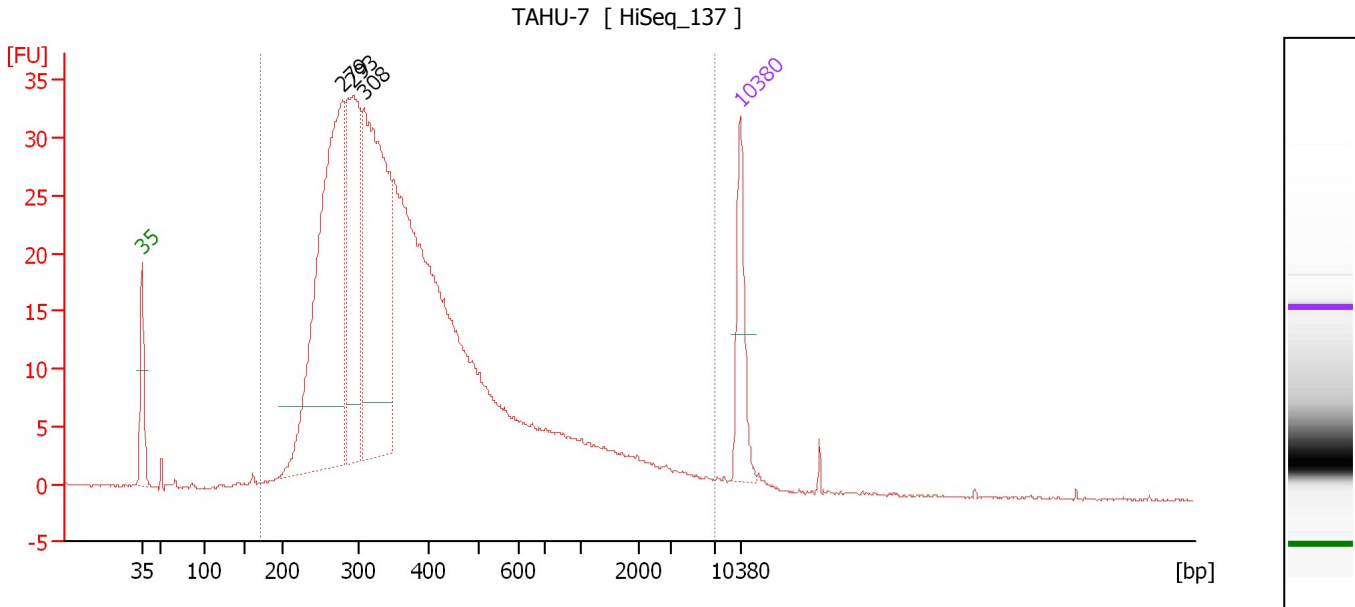
Region table for sample 9 : TAHU-6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
163	486	5,150	679.0	11,954.8	97	100.0	2,476.35

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
 Modified: 6/4/2015 9:58:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : TAHU-7

Number of peaks found: 3 Corr. Area 1: 743.4
 Noise: 0.1

Peak table for sample 10 : TAHU-7

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	279	675.48	3,663.9		66.46
3	293	326.29	1,684.5		67.71
4	308	528.14	2,596.2		68.95
5	10,380	75.00	10.9	Upper Marker	113.00

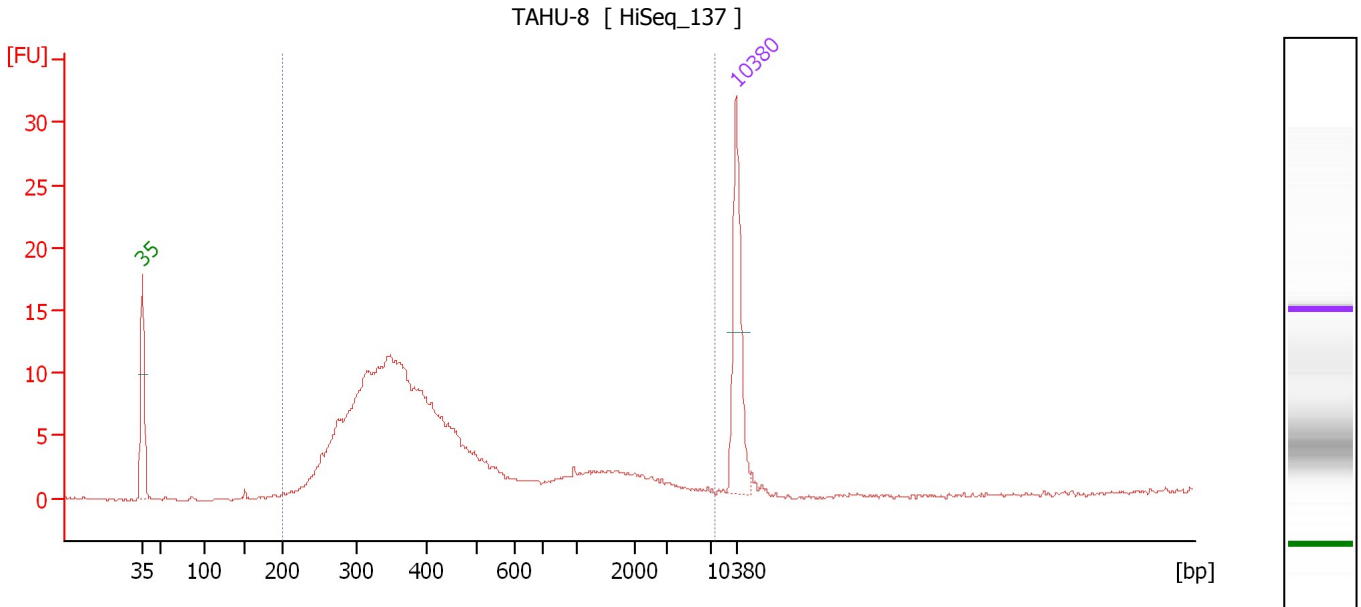
Region table for sample 10 : TAHU-7

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
172	509	6,999	743.4	13,103.5	99	100.0	2,954.85

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 11 : TAHU-8

Number of peaks found: 0 Corr. Area 1: 212.8
 Noise: 0.1

Peak table for sample 11 : TAHU-8

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	10,380	75.00	10.9	Upper Marker	113.00

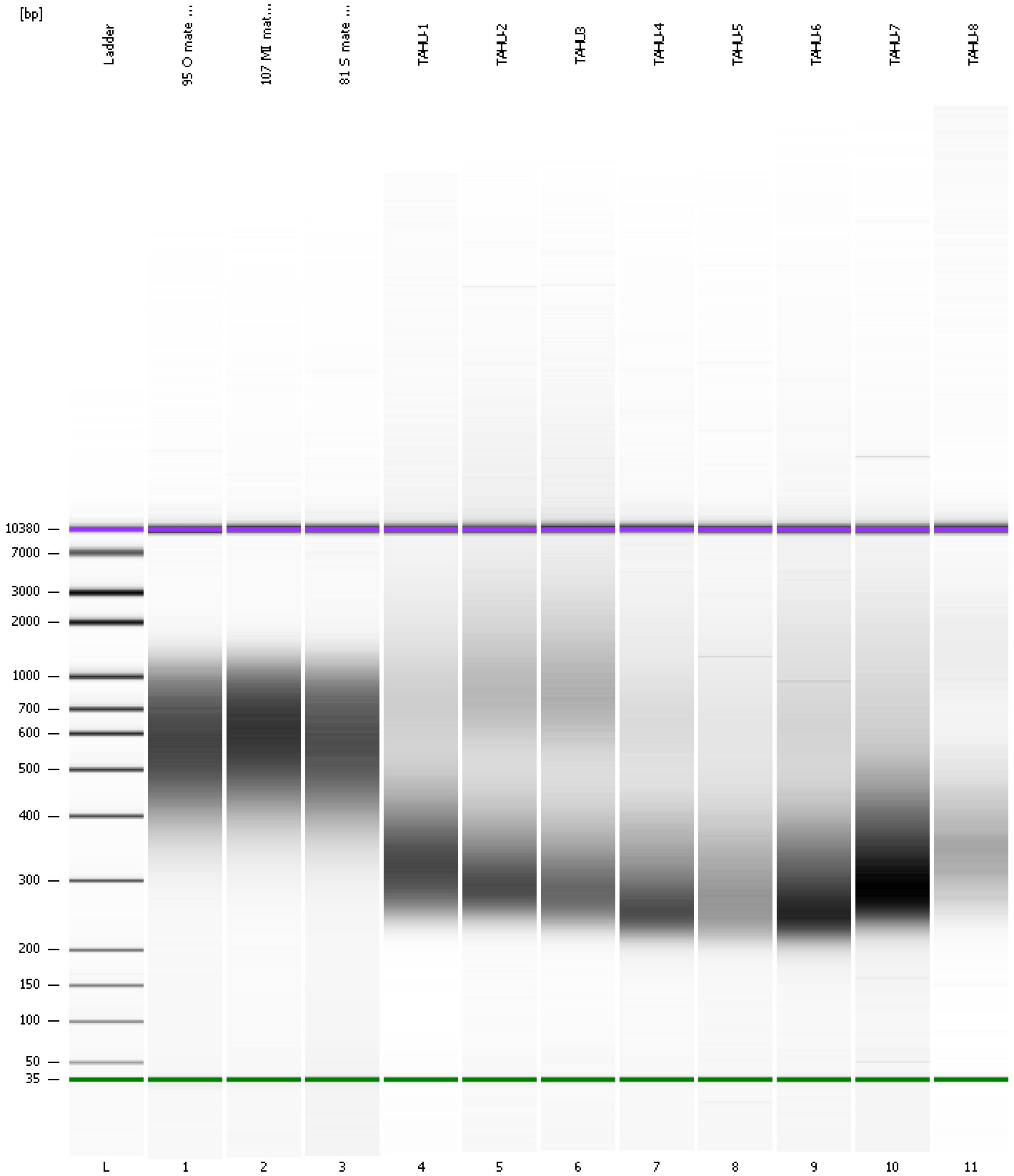
Region table for sample 11 : TAHU-8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	578	7,624	212.8	3,277.3	99	100.0	806.81

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
Modified: 6/4/2015 9:58:48 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_004.xad

Created: 6/4/2015 9:17:04 PM
Modified: 6/4/2015 9:58:48 PM

Curves

Standard Curve

