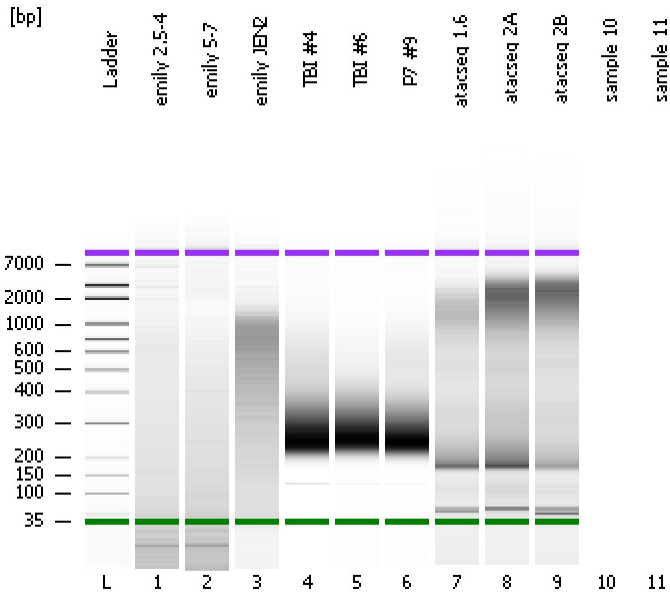


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
Modified: 6/11/2015 3:07:34 PM

Electrophoresis File Run Summary



Instrument Information:

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

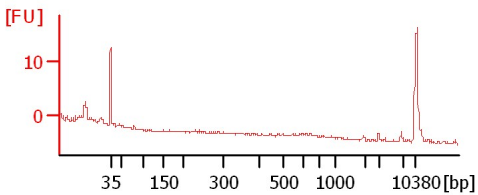
Assay Information:

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

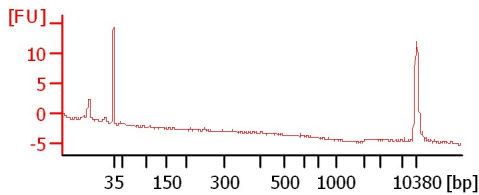
Chip Information:

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

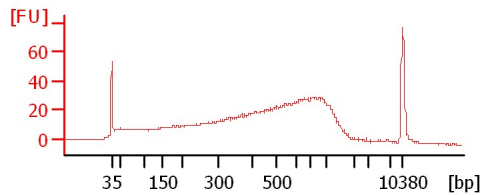
emily 2.5-4



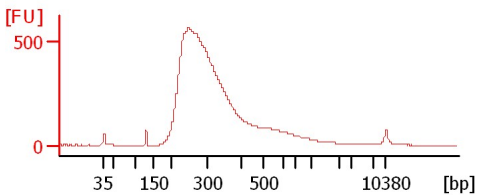
emily 5-7



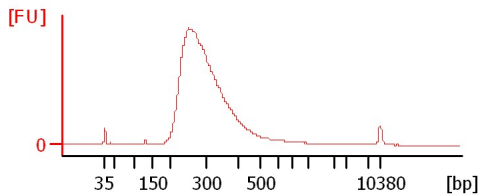
emily JEN2



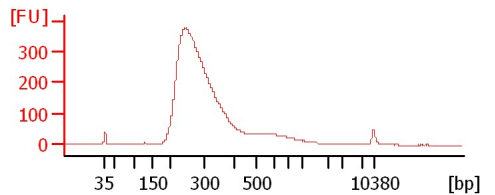
TBI #4



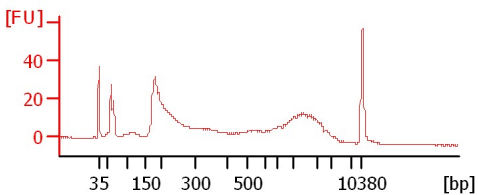
TBI #6



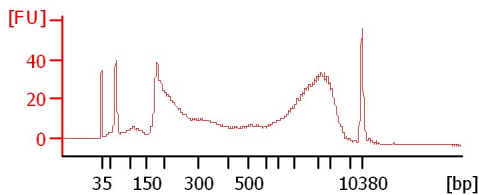
P7 #9



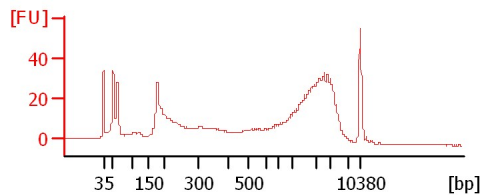
atacseq 1.6



atacseq 2A



atacseq 2B



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
emily 2.5-4		<input type="checkbox"/>	✓			
emily 5-7		<input type="checkbox"/>	✓			
emily JEN2		<input type="checkbox"/>	✓			
TBI #4		<input type="checkbox"/>	✓			
TBI #6		<input type="checkbox"/>	✓			
P7 #9		<input type="checkbox"/>	✓			
atacseq 1.6		<input type="checkbox"/>	✓			
atacseq 2A		<input type="checkbox"/>	✓			
atacseq 2B		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>	✗			
sample 11		<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\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
Modified: 6/11/2015 3:07:34 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

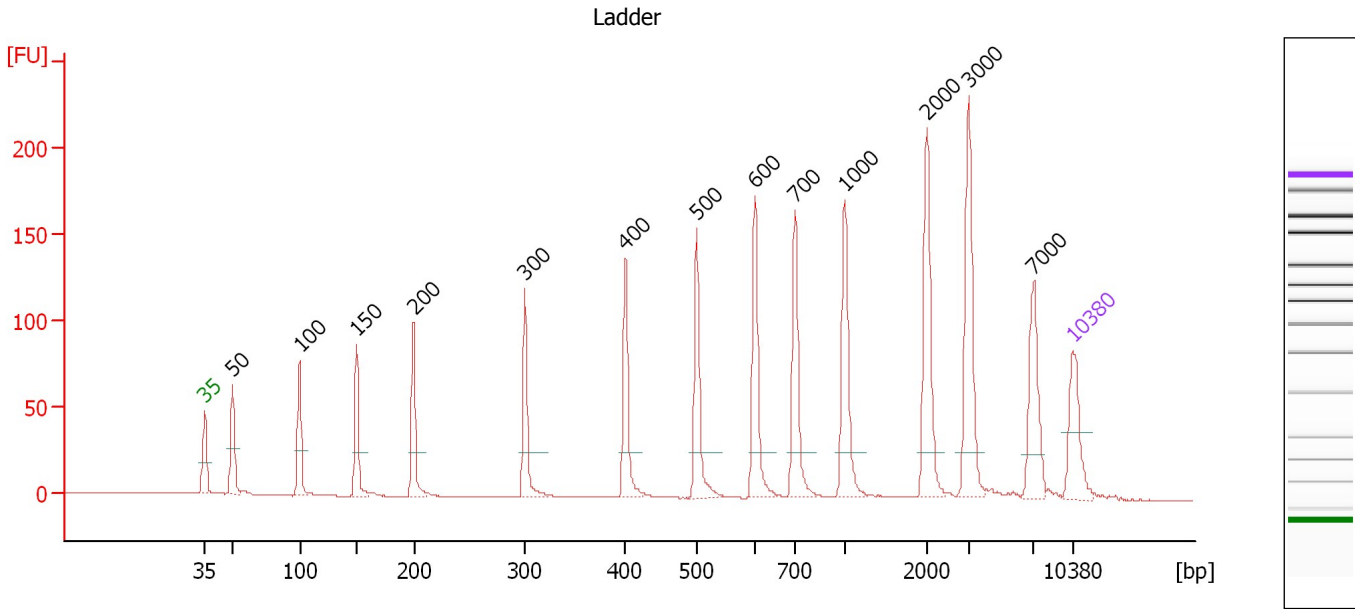
Ladder

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\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

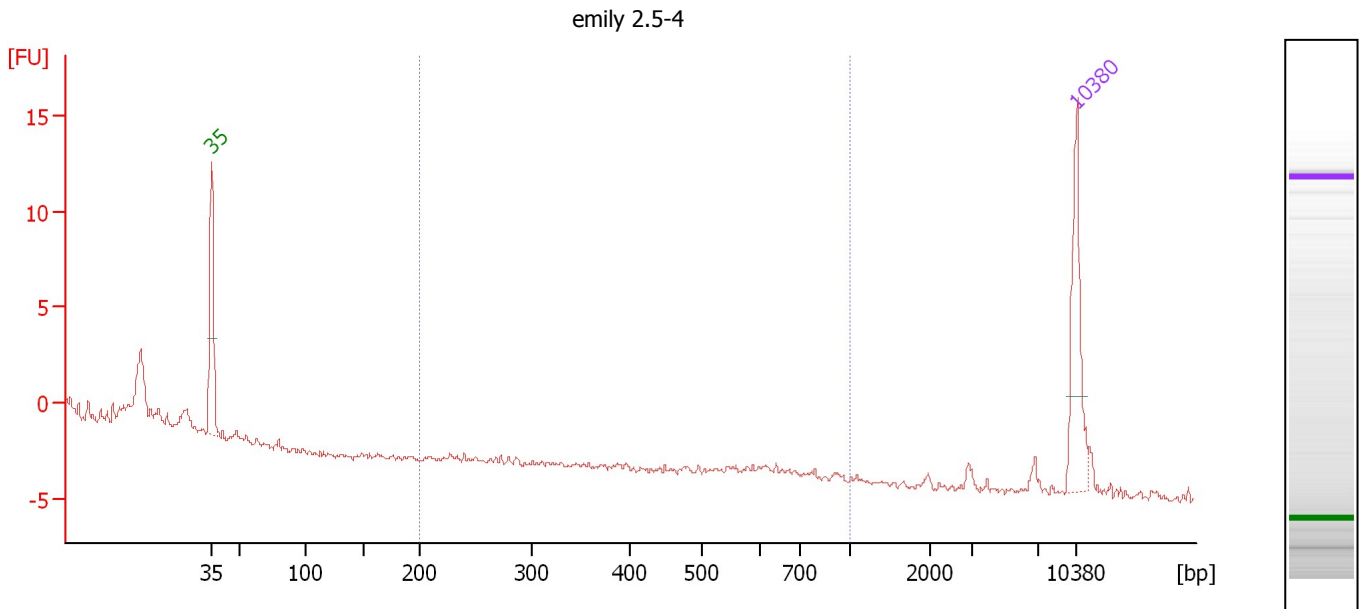
Peak table for Ladder

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	45.28
3	100	150.00	2,272.7	Ladder Peak	50.65
4	150	150.00	1,515.2	Ladder Peak	55.25
5	200	150.00	1,136.4	Ladder Peak	59.86
6	300	150.00	757.6	Ladder Peak	68.84
7	400	150.00	568.2	Ladder Peak	76.93
8	500	150.00	454.5	Ladder Peak	82.69
9	600	150.00	378.8	Ladder Peak	87.37
10	700	150.00	324.7	Ladder Peak	90.60
11	1,000	150.00	227.3	Ladder Peak	94.64
12	2,000	150.00	113.6	Ladder Peak	101.22
13	3,000	150.00	75.8	Ladder Peak	104.62
14	7,000	150.00	32.5	Ladder Peak	109.86
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : emily 2.5-4

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.2

Peak table for sample 1 : emily 2.5-4

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	10,380	75.00	10.9	Upper Marker	113.00

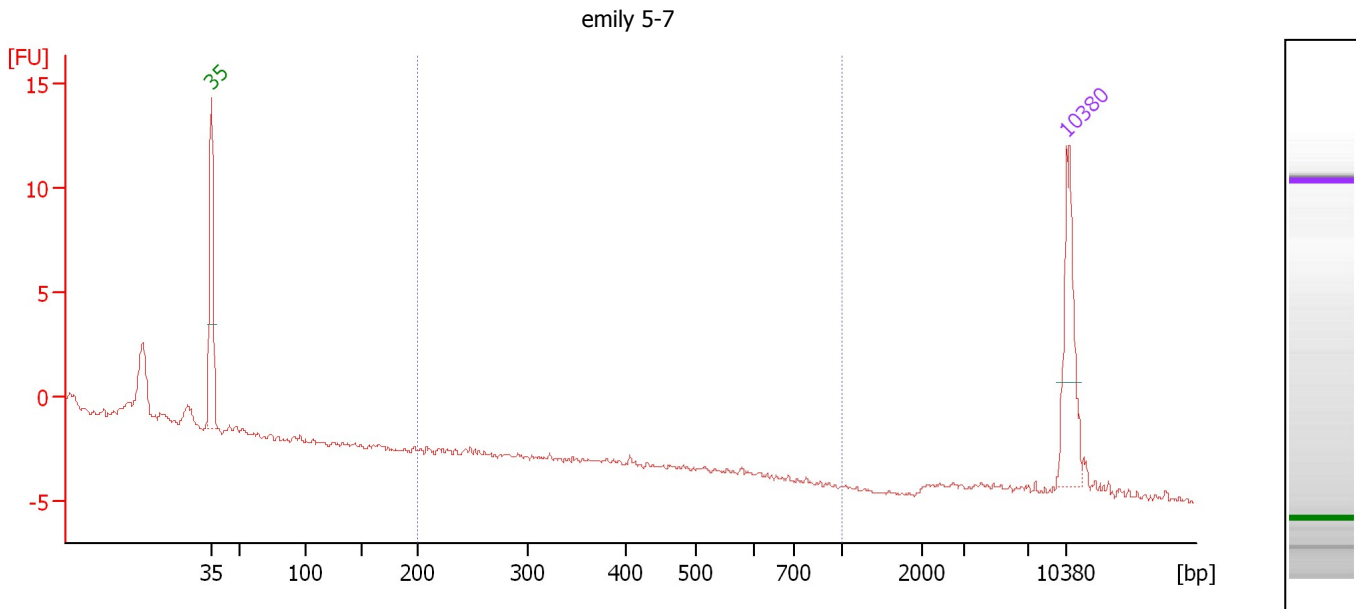
Region table for sample 1 : emily 2.5-4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	0	1,000	0.0	0.0	0	0.0	0.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : emily 5-7

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 2 : emily 5-7

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	10,380	75.00	10.9	Upper Marker	113.00

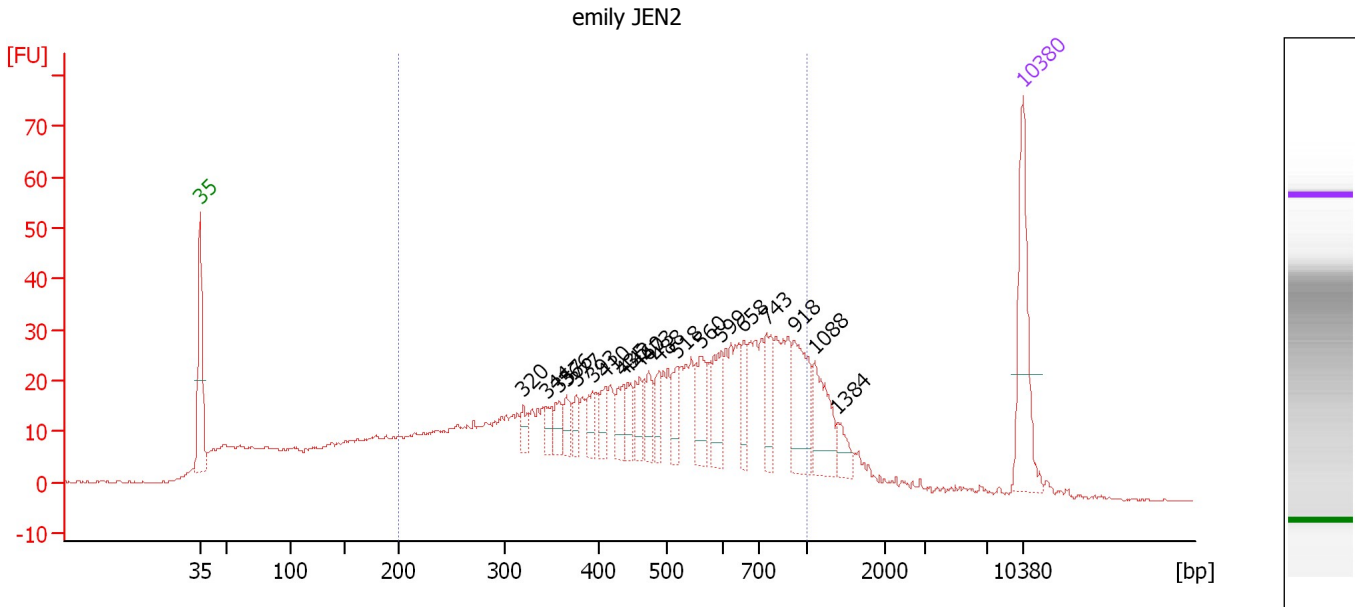
Region table for sample 2 : emily 5-7

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	0	1,000	0.0	0.0	0	0.0	0.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : emily JEN2

Number of peaks found: 20 Corr. Area 1: 898.4
 Noise: 0.3

Peak table for sample 3 : emily JEN2


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	320	15.99	75.6		70.49
3	344	13.28	58.5		72.40
4	357	19.14	81.1		73.49
5	366	16.05	66.5		74.17
6	377	15.02	60.5		75.03
7	393	21.89	84.3		76.39
8	410	19.73	73.0		77.48
9	435	22.73	79.2		78.93
10	442	19.81	67.9		79.34
11	460	23.56	77.6		80.38
12	473	26.05	83.4		81.15
13	488	22.10	68.7		81.97
14	518	24.64	72.1		83.51
15	560	39.56	107.0		85.51
16	599	37.58	95.1		87.32
17	658	25.37	58.5		89.23
18	743	36.64	74.7		91.18
19	918	62.38	102.9		93.54
20	1,088	51.11	71.2		95.22
21	1,384	15.50	17.0		97.17
22	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...

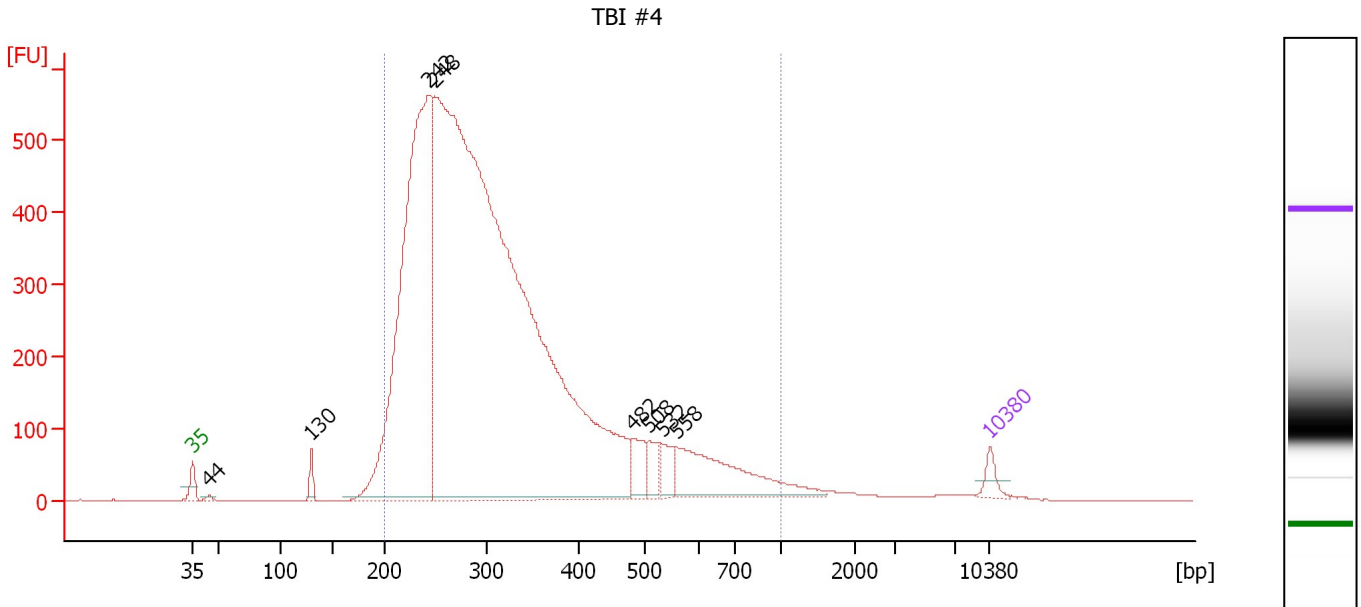
... Region table for sample 3 : emily JEN2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/ μ l]
200	514	1,000	898.4	5,503.8	 70	38.8	1,471.98

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : TBI #4

Number of peaks found: 8 Corr. Area 1: 10,983.4
 Noise: 0.4

Peak table for sample 4 : TBI #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	44	30.93	1,059.3		44.40
3	130	117.31	1,369.5		53.39
4	242	5,283.10	33,047.6		63.65
5	248	14,711.44	89,709.5		64.21
6	482	204.75	643.0		81.68
7	508	165.31	492.7		83.08
8	532	156.11	444.3		84.20
9	558	835.61	2,267.5		85.42
10	10,380	75.00	10.9	Upper Marker	113.00

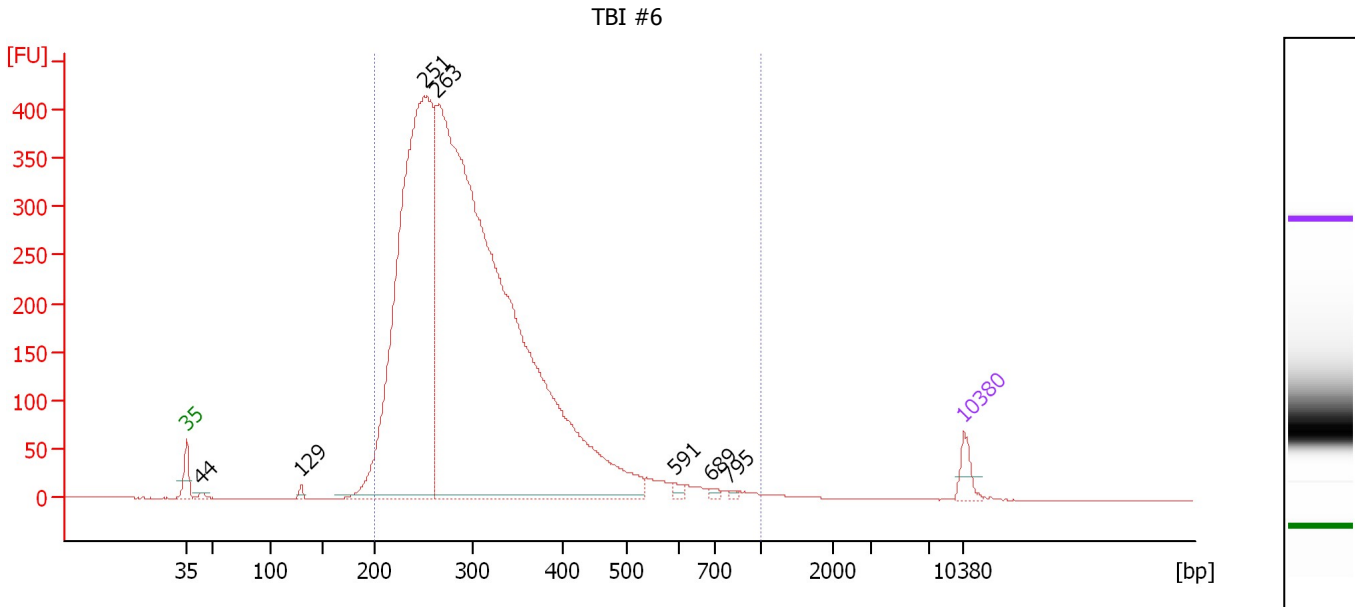
Region table for sample 4 : TBI #4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	328	1,000	10,983.4	100,462.6	96	36.8	19,299.32

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : TBI #6

Number of peaks found: 7 Corr. Area 1: 7,083.7
 Noise: 0.2

Peak table for sample 5 : TBI #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	44	23.46	810.7		44.34
3	129	23.79	279.4		53.32
4	251	4,656.63	28,141.0		64.41
5	263	9,062.73	52,209.3		65.52
6	591	25.28	64.9		86.93
7	689	18.43	40.5		90.24
8	795	10.99	21.0		91.88
9	10,380	75.00	10.9	Upper Marker	113.00

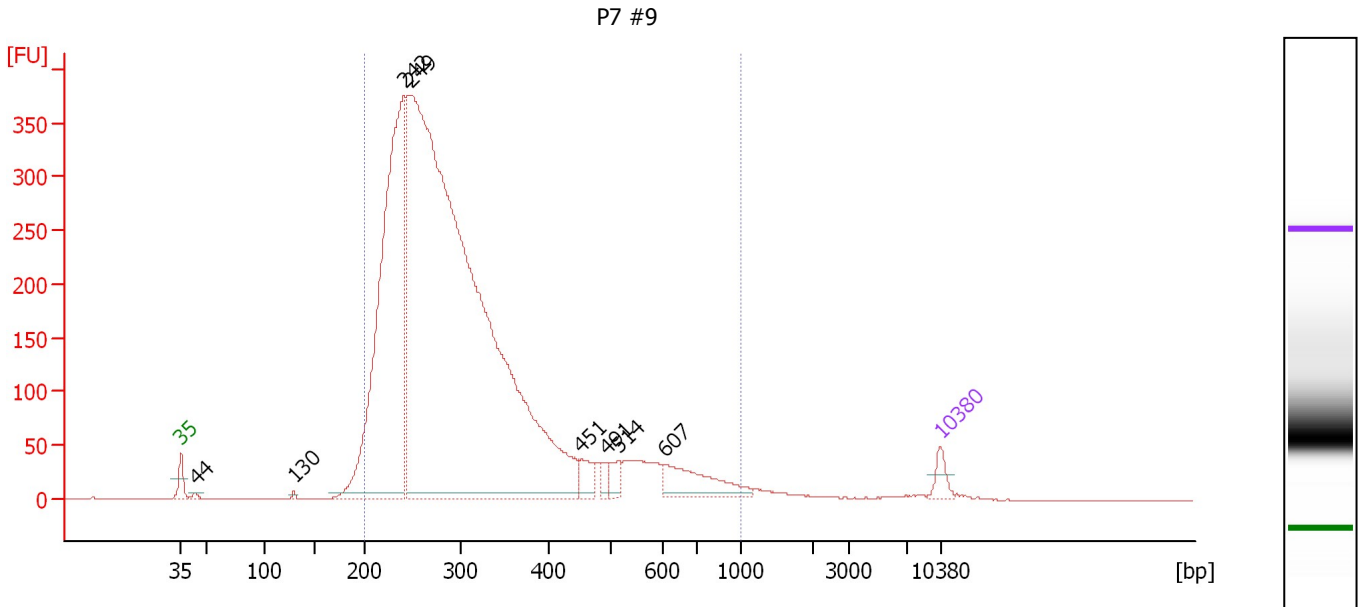
Region table for sample 5 : TBI #6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	308	1,000	7,083.7	67,767.7	98	28.6	12,815.97

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : P7 #9

Number of peaks found: 8 Corr. Area 1: 6,265.2
 Noise: 0.2

Peak table for sample 6 : P7 #9

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	44	25.29	876.3		44.33
3	130	16.34	191.2		53.37
4	242	3,920.91	24,585.3		63.60
5	249	11,097.62	67,596.2		64.24
6	451	125.49	421.5		79.87
7	491	62.89	194.0		82.18
8	514	94.82	279.3		83.36
9	607	352.67	880.9		87.59
10	10,380	75.00	10.9	Upper Marker	113.00

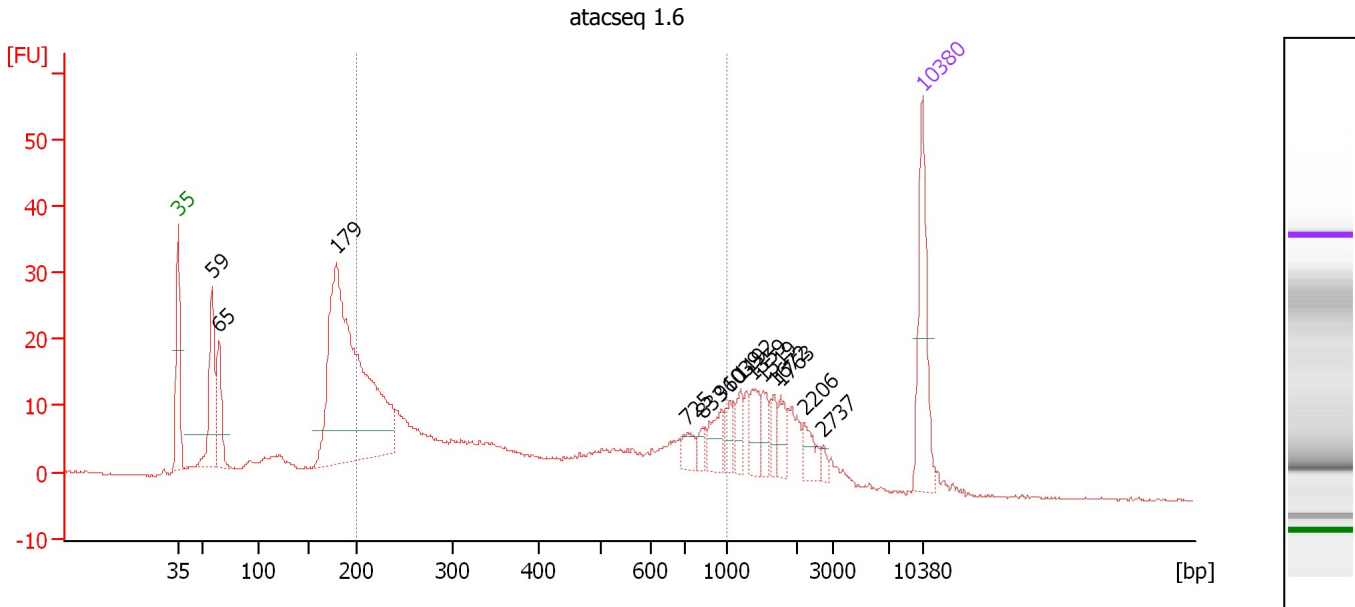
Region table for sample 6 : P7 #9

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	316	1,000	6,265.2	80,218.3	97	36.7	15,016.20

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : atacseq 1.6

Number of peaks found: 14 Corr. Area 1: 328.3
 Noise: 0.1

Peak table for sample 7 : atacseq 1.6

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	59	115.99	2,996.2		46.21
3	65	67.96	1,591.0		46.86
4	179	535.76	4,543.3		57.89
5	725	16.28	34.0		90.94
6	833	10.97	20.0		92.39
7	960	24.65	38.9		94.10
8	1,039	15.75	23.0		94.90
9	1,192	19.65	25.0		95.90
10	1,359	25.58	28.5		97.00
11	1,519	16.32	16.3		98.06
12	1,672	13.34	12.1		99.06
13	1,763	17.21	14.8		99.66
14	2,206	17.67	12.1		101.92
15	2,737	5.63	3.1		103.72
16	10,380	75.00	10.9	Upper Marker	113.00

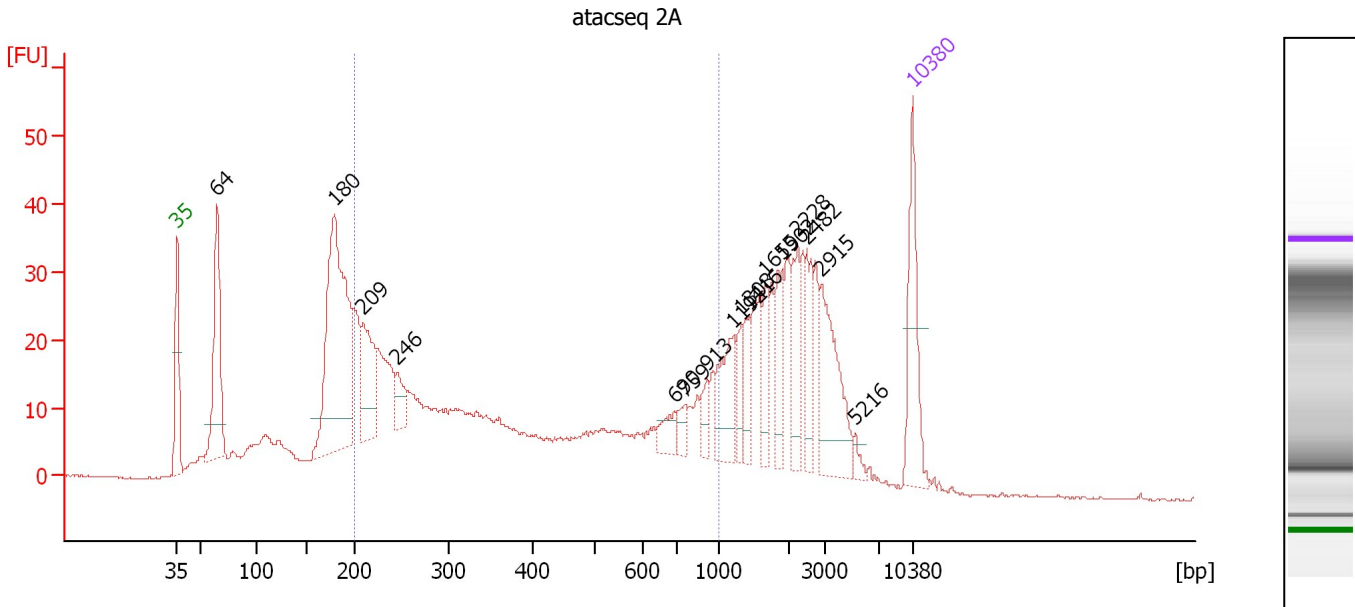
Region table for sample 7 : atacseq 1.6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	443	1,000	328.3	3,739.6	48	51.3	788.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : atacseq 2A

Number of peaks found: 16 Corr. Area 1: 521.2
 Noise: 0.1

Peak table for sample 8 : atacseq 2A

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	64	190.97	4,507.7		46.80
3	180	395.99	3,333.3		58.01
4	209	108.39	784.1		60.70
5	246	33.29	205.4		63.95
6	690	23.65	51.9		90.28
7	759	15.90	31.8		91.39
8	913	19.29	32.0		93.47
9	1,192	60.30	76.6		95.91
10	1,308	25.02	29.0		96.67
11	1,416	26.42	28.3		97.38
12	1,655	30.93	28.3		98.95
13	1,902	36.78	29.3		100.57
14	2,228	45.61	31.0		101.99
15	2,482	41.91	25.6		102.86
16	2,915	90.89	47.2		104.33
17	5,216	7.90	2.3		107.52
18	10,380	75.00	10.9	Upper Marker	113.00

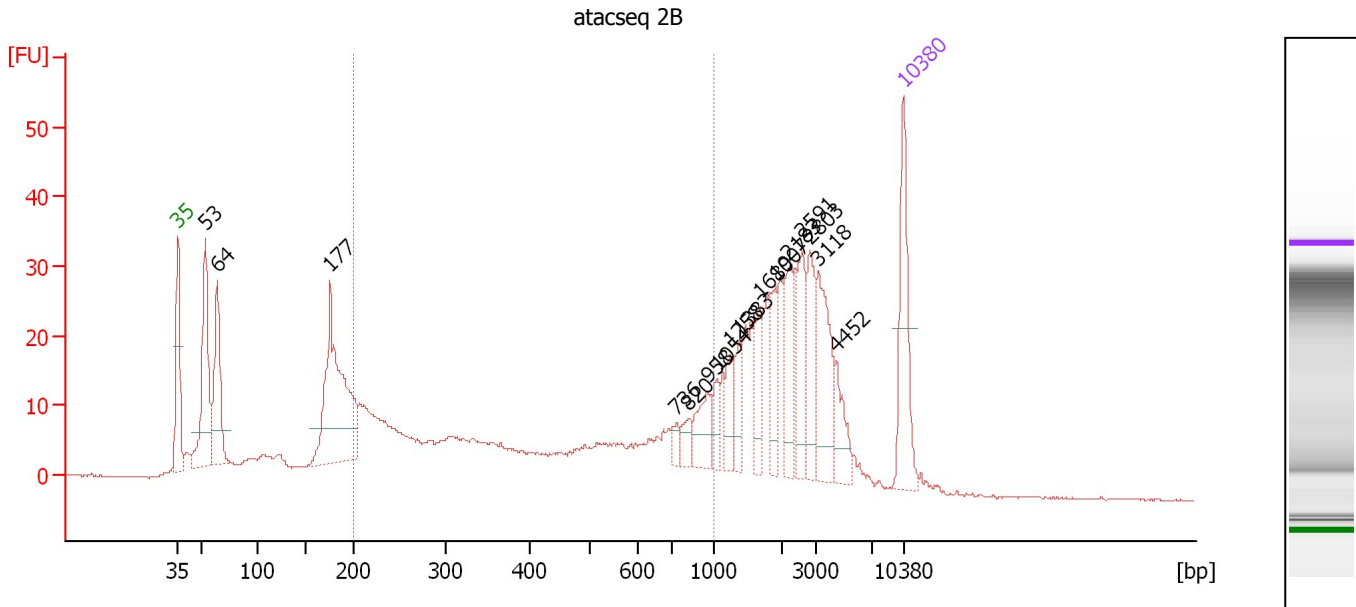
Region table for sample 8 : atacseq 2A

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	438	1,000	521.2	6,175.0	44	50.6	1,309.61

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
 Modified: 6/11/2015 3:07:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : atacseq 2B

Number of peaks found: 16 Corr. Area 1: 313.6
 Noise: 0.1

Peak table for sample 9 : atacseq 2B

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	171.90	4,895.6		45.62
3	64	124.49	2,937.7		46.81
4	177	247.45	2,122.0		57.71
5	736	9.90	20.4		91.09
6	820	15.17	28.0		92.22
7	958	35.87	56.7		94.07
8	1,054	19.16	27.5		95.00
9	1,258	26.32	31.7		96.34
10	1,383	22.68	24.9		97.16
11	1,680	34.09	30.7		99.11
12	1,907	30.96	24.6		100.60
13	2,183	51.49	35.7		101.84
14	2,591	50.74	29.7		103.23
15	2,803	47.87	25.9		103.95
16	3,118	75.04	36.5		104.77
17	4,452	30.85	10.5		106.52
18	10,380	75.00	10.9	Upper Marker	113.00

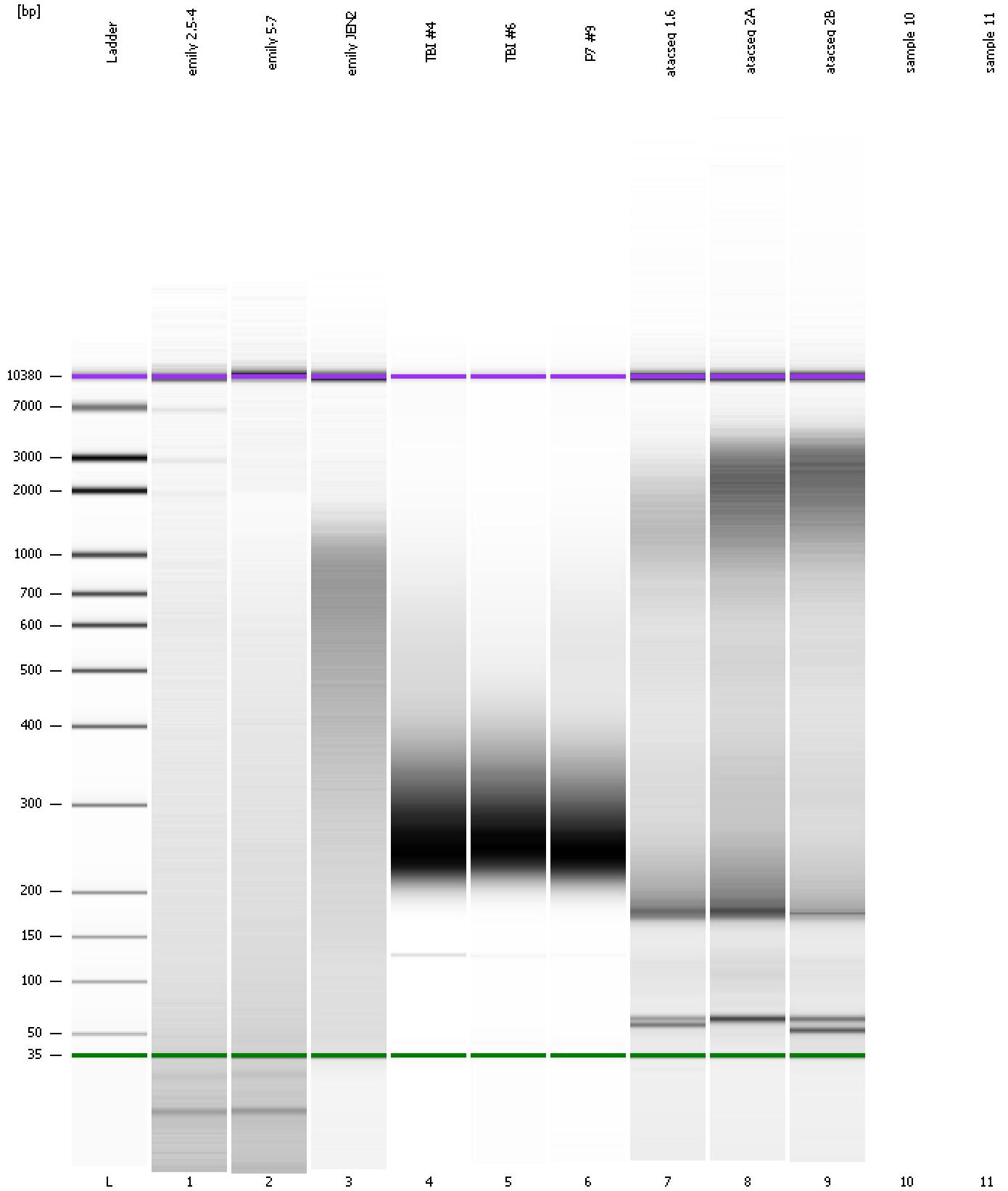
Region table for sample 9 : atacseq 2B

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	474	1,000	313.6	3,423.9	36	48.0	780.67

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
Modified: 6/11/2015 3:07:34 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-11\2015-06-11_003.xad

Created: 6/11/2015 2:31:47 PM
Modified: 6/11/2015 3:07:34 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.