

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_002.xad

Created: 5/12/2015 1:37:54 PM
Modified: 5/12/2015 2:23:57 PM

Electrophoresis File Run Summary

Instrument Information:

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

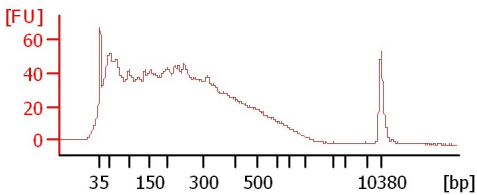
Assay Information:

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

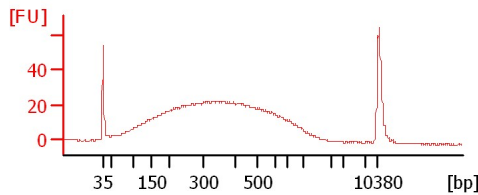
Chip Information:

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

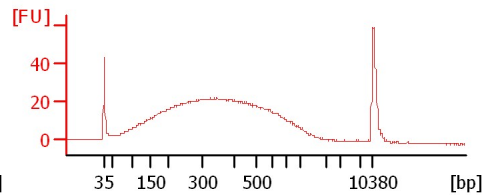
VAX6-1 soni +1 (1:10)



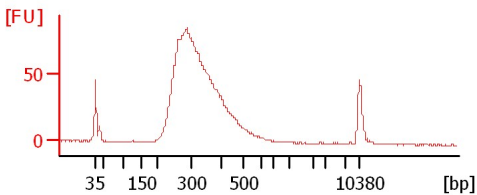
4627 soni +1 (1:10)



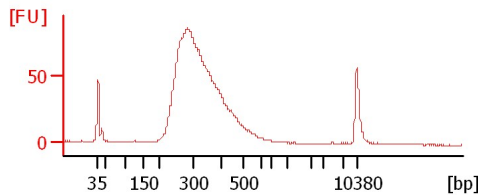
705 soni +1 (1:10)



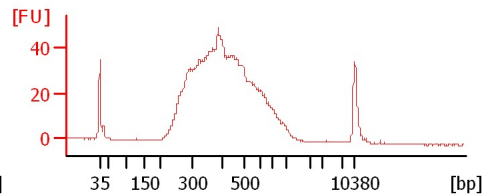
M1 lib (1:3)



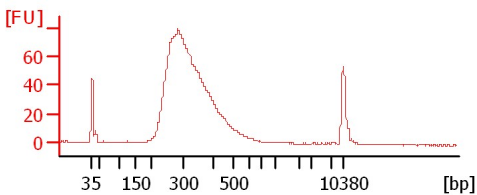
M2 lib (1:3)



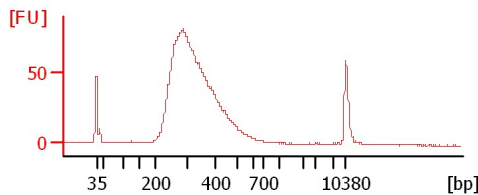
M3 lib (1:3)



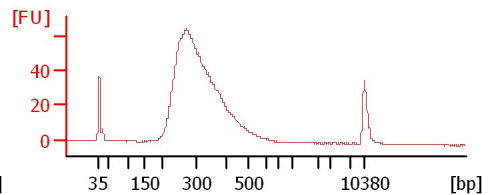
TL1 lib (1:3)



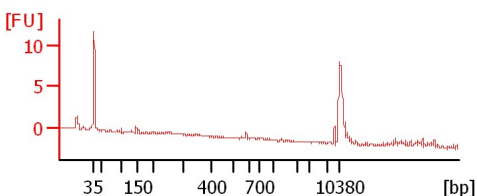
TL2 lib (1:3)



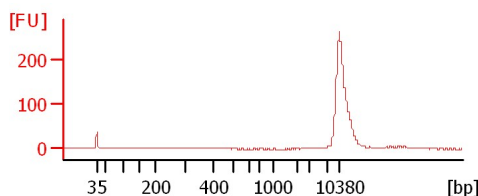
TL3 lib (1:3)



HiSeq100 sheared circ. DNA



HiSeq100 10-15kb from gel



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
VAX6-1 soni +1 (1:10)		<input type="checkbox"/>	✓			
4627 soni +1 (1:10)		<input type="checkbox"/>	✓			
705 soni + 1 (1:10)		<input type="checkbox"/>	✓			
M1 lib (1:3)		<input type="checkbox"/>	✓			
M2 lib (1:3)		<input type="checkbox"/>	✓			
M3 lib (1:3)		<input type="checkbox"/>	✓			
TL1 lib (1:3)		<input type="checkbox"/>	✓			
TL2 lib (1:3)		<input type="checkbox"/>	✓			
TL3 lib (1:3)		<input type="checkbox"/>	✓			
HiSeq100 sheared circ. DNA		<input type="checkbox"/>	✓			
HiSeq100 10-15kb from gel		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

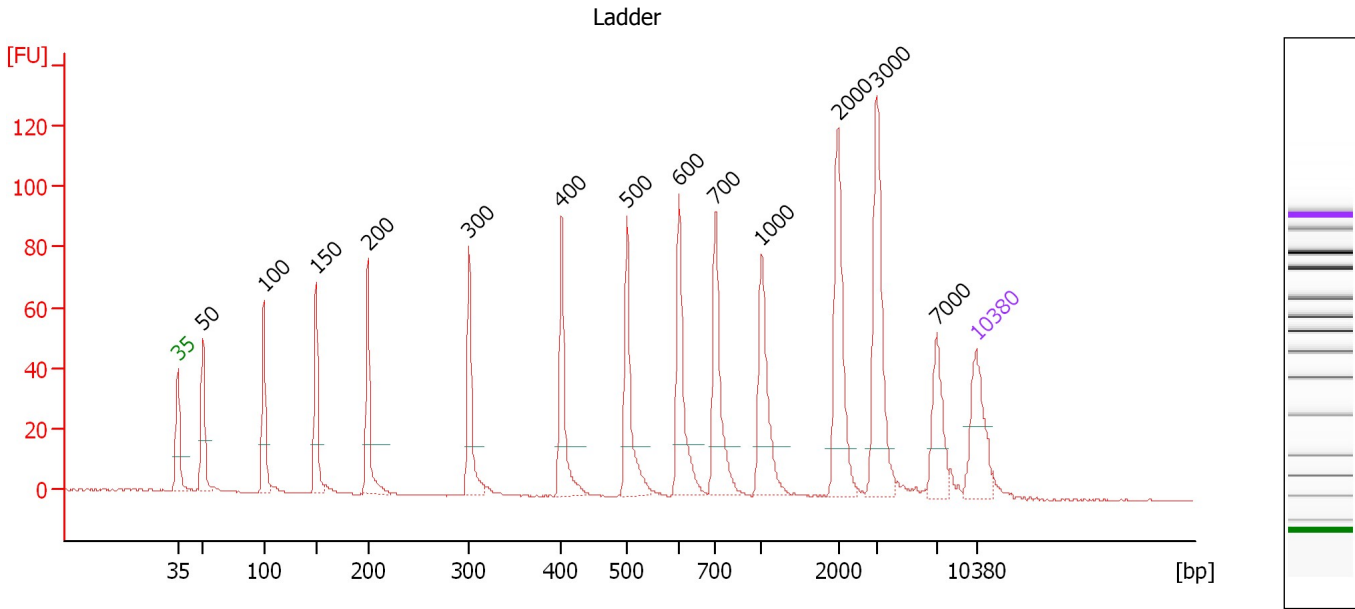
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

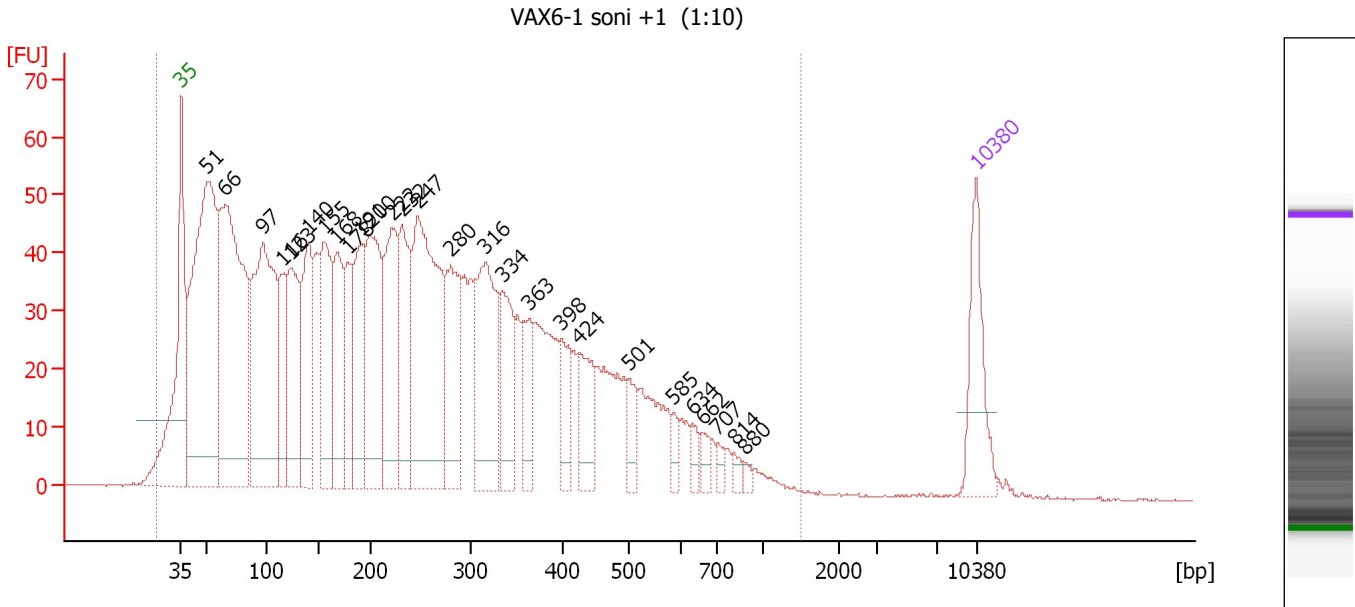
Peak table for Ladder

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	45.20
3	100	150.00	2,272.7	Ladder Peak	50.53
4	150	150.00	1,515.2	Ladder Peak	55.11
5	200	150.00	1,136.4	Ladder Peak	59.65
6	300	150.00	757.6	Ladder Peak	68.53
7	400	150.00	568.2	Ladder Peak	76.62
8	500	150.00	454.5	Ladder Peak	82.37
9	600	150.00	378.8	Ladder Peak	86.95
10	700	150.00	324.7	Ladder Peak	90.13
11	1,000	150.00	227.3	Ladder Peak	94.20
12	2,000	150.00	113.6	Ladder Peak	100.89
13	3,000	150.00	75.8	Ladder Peak	104.26
14	7,000	150.00	32.5	Ladder Peak	109.54
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : VAX6-1 soni +1 (1:10)

Number of peaks found: 27 Corr. Area 1: 2,658.7
 Noise: 0.2

Peak table for sample 1 : VAX6-1 soni +1 (1:10)

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	51	678.32	20,166.5		45.30
3	66	615.15	14,135.5		46.90
4	97	460.44	7,177.2		50.23
5	116	120.10	1,572.7		51.97
6	123	196.71	2,415.7		52.67
7	140	184.42	1,999.1		54.17
8	155	182.81	1,784.7		55.58
9	168	146.50	1,320.2		56.76
10	178	96.51	819.3		57.69
11	191	154.01	1,219.0		58.87
12	200	225.55	1,706.8		59.67
13	222	195.53	1,335.1		61.59
14	232	152.03	993.2		62.48
15	247	378.01	2,316.4		63.85
16	280	147.02	795.5		66.76
17	316	200.41	961.6		69.81
18	334	104.32	472.7		71.31
19	363	64.79	270.2		73.66
20	398	56.69	215.7		76.47
21	424	72.77	259.8		78.02
22	501	33.37	100.8		82.44
23	585	15.33	39.7		86.29
24	634	16.53	39.5		88.02
25	662	15.58	35.7		88.92

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Electropherogram Summary Continued ...

... Peak table for sample 1 : VAX6-1 soni +1 (1:10)

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	707	9.26	19.8		90.23
27	814	9.02	16.8		91.69
28	880	6.04	10.4		92.58
29	10,380	75.00	10.9	Upper Marker	113.00

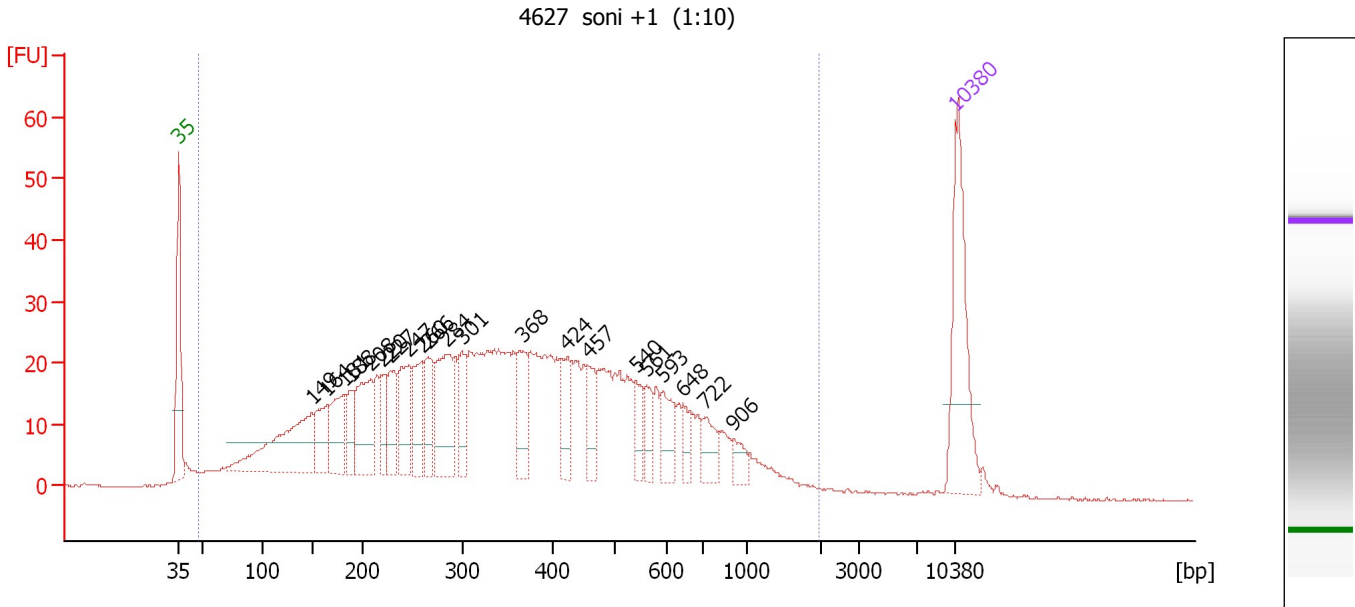
Region table for sample 1 : VAX6-1 soni +1 (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Color
20	251	1,497	2,658.7	66,695.6	100	71.0	5,388.54	

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 4627 soni +1 (1:10)

Number of peaks found: 21 Corr. Area 1: 1,165.0
 Noise: 0.2

Peak table for sample 2 : 4627 soni +1 (1:10)

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	149	138.65	1,411.6		55.00
3	164	46.05	426.4		56.35
4	181	55.81	468.3		57.88
5	188	27.99	225.7		58.56
6	208	74.53	543.6		60.33
7	220	28.72	197.6		61.44
8	227	42.23	281.7		62.06
9	247	55.47	340.8		63.79
10	260	42.35	247.2		64.94
11	266	38.89	221.9		65.47
12	284	82.58	439.9		67.15
13	301	33.17	167.1		68.59
14	368	40.64	167.1		74.06
15	424	35.30	126.1		78.00
16	457	24.46	81.2		79.87
17	540	21.74	61.0		84.19
18	561	19.10	51.6		85.15
19	593	28.01	71.5		86.64
20	648	11.01	25.8		88.47
21	722	21.06	44.2		90.43
22	906	12.01	20.1		92.93
23	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...

... Region table for sample 2 : 4627 soni +1 (1:10)

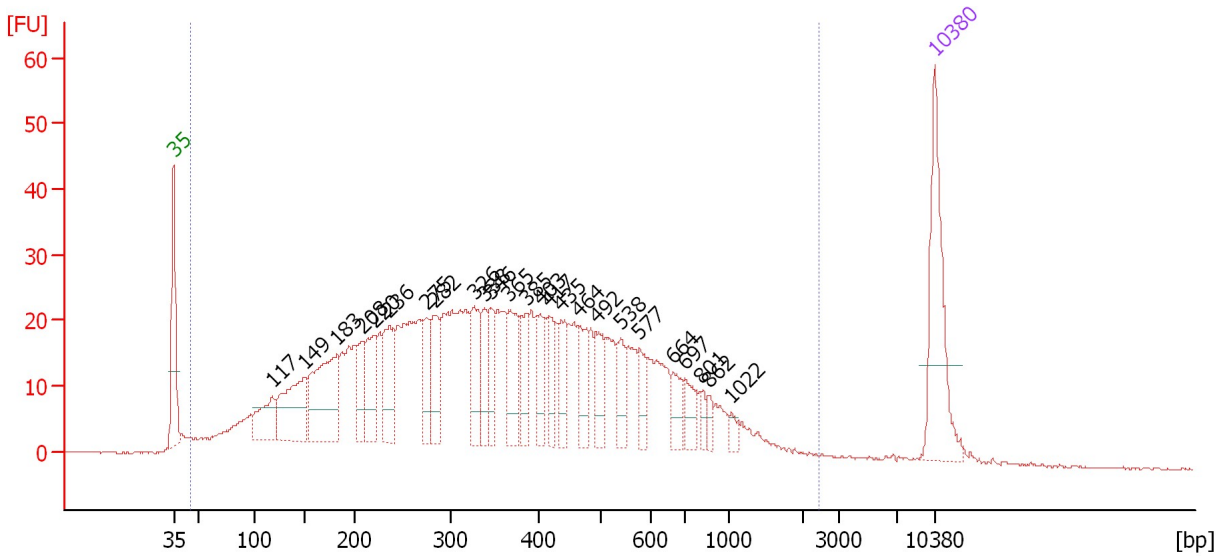
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Color
47	396	1,963	1,165.0	11,405.0	98	61.2	1,786.13	■

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Electropherogram Summary Continued ...

705 soni + 1 (1:10)



Overall Results for sample 3 : 705 soni + 1 (1:10)

Number of peaks found: 25 Corr. Area 1: 1,152.5
 Noise: 0.2

Peak table for sample 3 : 705 soni + 1 (1:10)

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	117	45.82	593.7		52.08
3	149	90.79	922.7		55.03
4	183	117.82	977.5		58.07
5	208	33.91	247.4		60.33
6	220	49.10	337.6		61.46
7	236	56.47	362.7		62.83
8	275	33.22	183.3		66.27
9	282	43.36	232.8		66.96
10	326	41.62	193.4		70.64
11	338	30.89	138.7		71.57
12	346	30.41	133.2		72.26
13	365	48.11	199.4		73.83
14	385	31.00	121.9		75.45
15	403	31.81	119.4		76.82
16	417	26.94	97.9		77.61
17	435	29.65	103.3		78.64
18	464	31.12	101.6		80.31
19	492	32.16	99.0		81.93
20	538	24.00	67.5		84.14
21	577	21.59	56.7		85.90
22	664	19.01	43.4		89.00
23	697	19.84	43.1		90.03
24	801	8.56	16.2		91.50
25	862	7.52	13.2		92.33

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Electropherogram Summary Continued ...

... Peak table for sample 3 : 705 soni + 1 (1:10)

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	1,022	5.88	8.7		94.35
27	10,380	75.00	10.9	Upper Marker	113.00

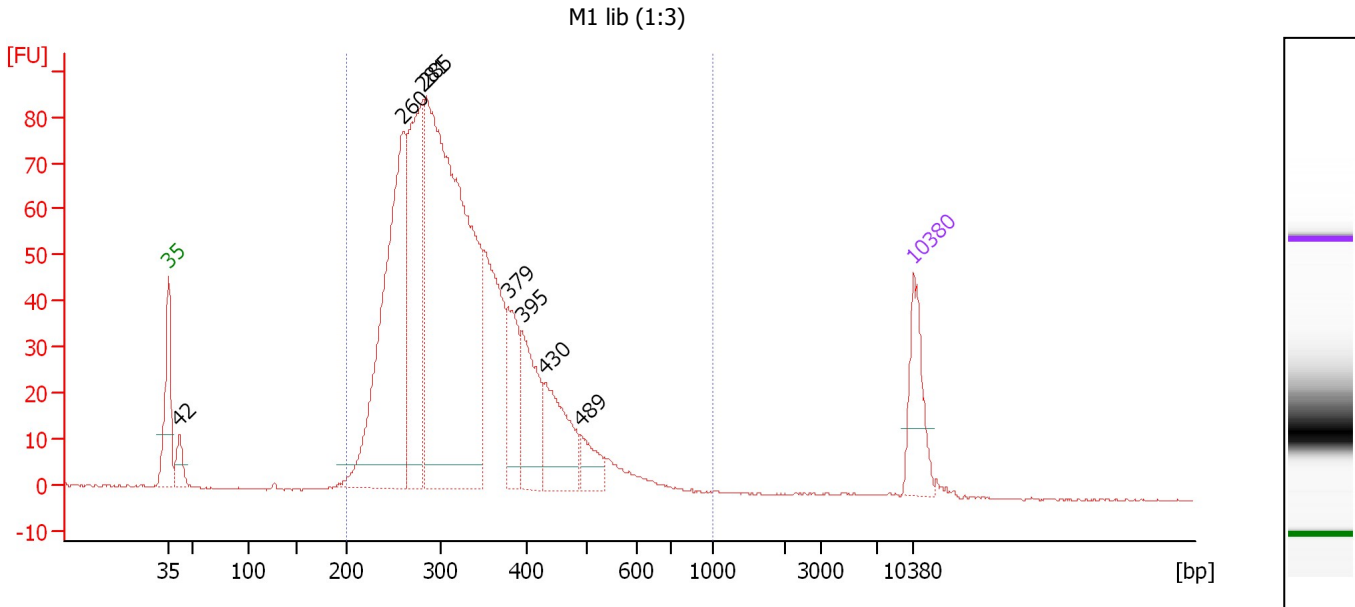
Region table for sample 3 : 705 soni + 1 (1:10)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/ μ l]	Color
46	407	2,441	1,152.5	12,598.0	98	66.8	1,982.40	

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Electropherogram Summary Continued ...



Overall Results for sample 4 : M1 lib (1:3)

Number of peaks found: 8 Corr. Area 1: 1,499.1
 Noise: 0.2

Peak table for sample 4 : M1 lib (1:3)

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	42	49.80	1,803.7		44.00
3	260	616.58	3,592.5		64.98
4	281	394.71	2,129.0		66.83
5	285	1,144.22	6,074.3		67.23
6	379	114.28	456.5		74.95
7	395	144.76	554.7		76.25
8	430	137.83	485.6		78.35
9	489	46.04	142.6		81.76
10	10,380	75.00	10.9	Upper Marker	113.00

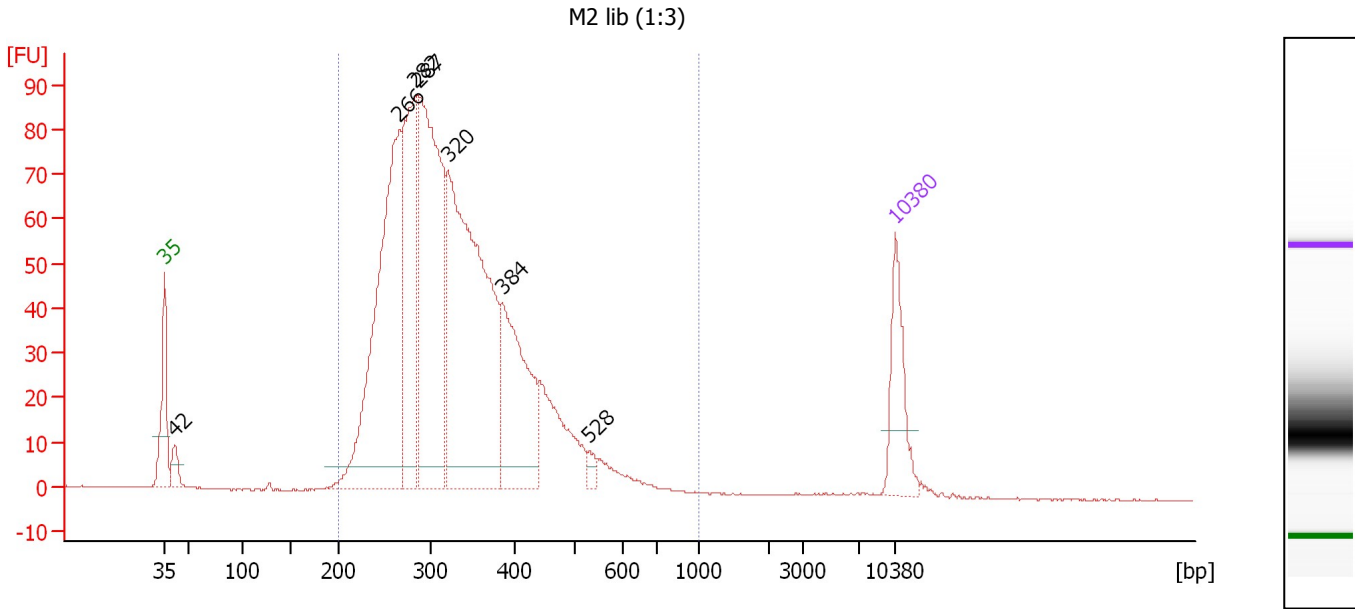
Region table for sample 4 : M1 lib (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	330	1,000	1,499.1	14,212.0	98	24.6	2,896.30	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 5 : M2 lib (1:3)

Number of peaks found: 7 Corr. Area 1: 1,568.2
 Noise: 0.1

Peak table for sample 5 : M2 lib (1:3)

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	42	33.64	1,224.3		43.97
3	266	588.74	3,357.6		65.48
4	282	322.00	1,727.9		66.96
5	287	527.72	2,786.4		67.37
6	320	670.65	3,171.3		70.18
7	384	226.39	892.8		75.34
8	528	12.89	37.0		83.67
9	10,380	75.00	10.9	Upper Marker	113.00

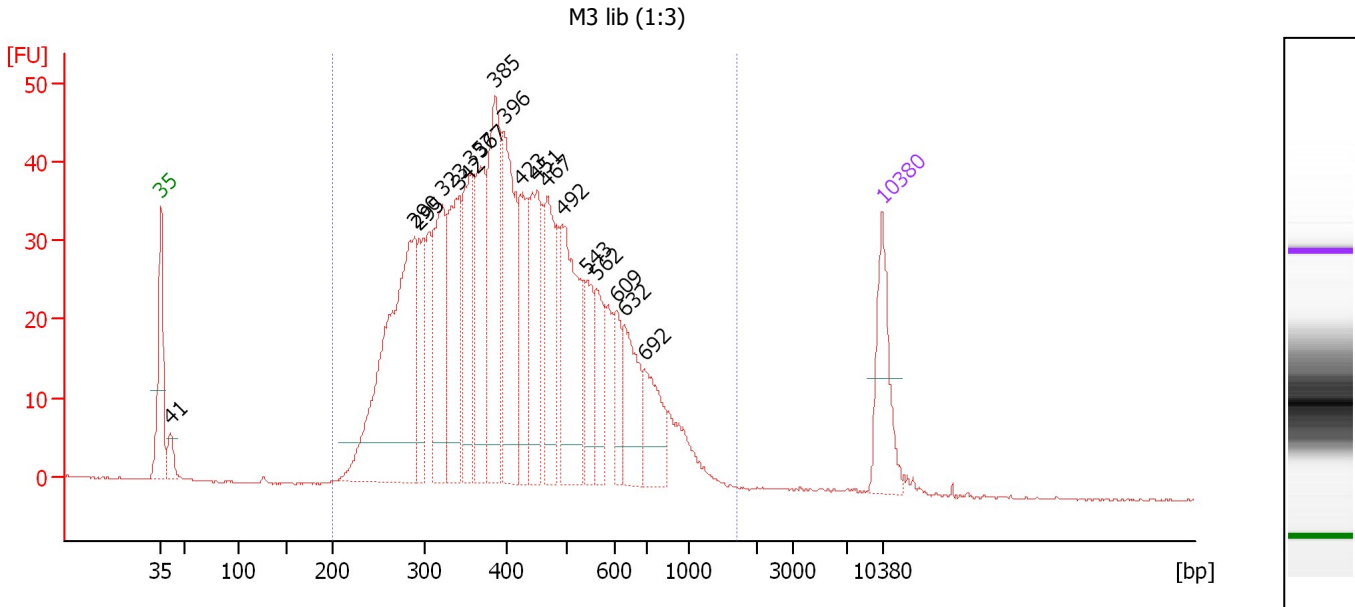
Region table for sample 5 : M2 lib (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	333	1,000	1,568.2	12,432.5	98	24.7	2,555.01	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 6 : M3 lib (1:3)

Number of peaks found: 18 Corr. Area 1: 1,158.9
 Noise: 0.1

Peak table for sample 6 : M3 lib (1:3)

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	32.65	1,206.3		43.88
3	290	450.00	2,352.5		67.63
4	295	96.08	493.4		68.09
5	323	176.87	830.4		70.37
6	342	184.64	818.2		71.92
7	357	129.73	551.2		73.11
8	367	153.41	632.5		73.99
9	385	213.35	838.8		75.44
10	396	199.90	765.6		76.27
11	423	111.27	398.9		77.92
12	451	132.27	444.8		79.53
13	467	124.65	404.7		80.46
14	492	198.24	610.6		81.91
15	543	61.36	171.2		84.34
16	562	62.86	169.5		85.22
17	609	41.95	104.4		87.24
18	632	87.20	209.2		87.96
19	692	73.21	160.3		89.87
20	10,380	75.00	10.9	Upper Marker	113.00

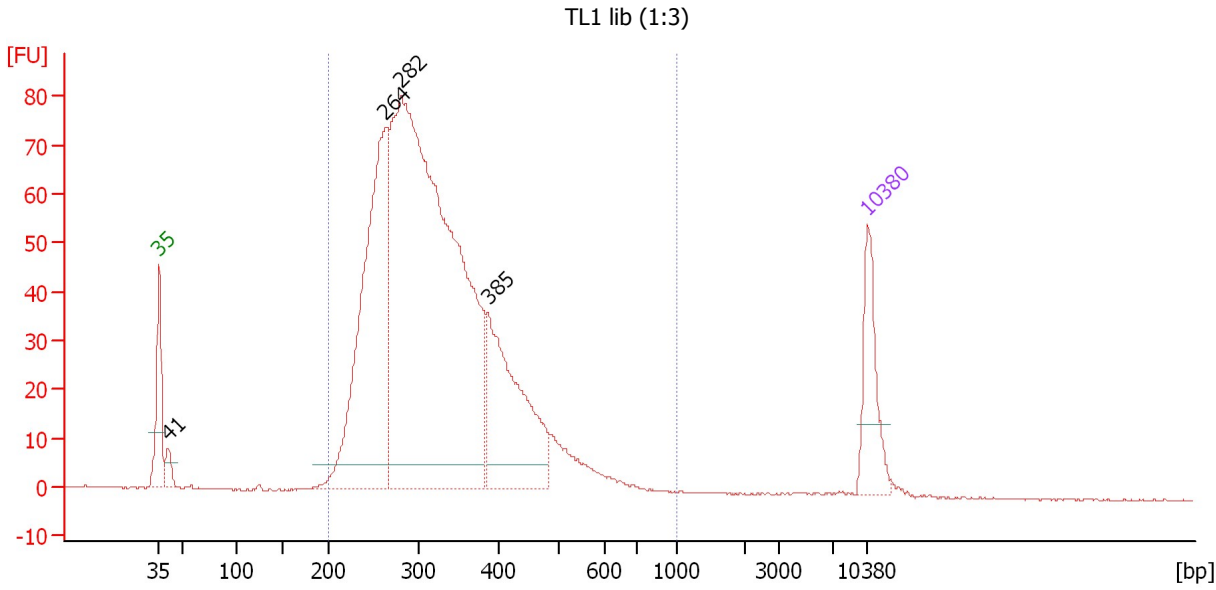
Region table for sample 6 : M3 lib (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	441	1,715	1,158.9	11,392.5	99	36.9	2,871.04	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 7 : TL1 lib (1:3)

Number of peaks found: 4 Corr. Area 1: 1,406.6
 Noise: 0.1

Peak table for sample 7 : TL1 lib (1:3)

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	27.65	1,027.9		43.84
3	264	581.06	3,334.9		65.33
4	282	1,464.43	7,874.2		66.91
5	385	276.58	1,087.1		75.45
6	10,380	75.00	10.9	Upper Marker	113.00

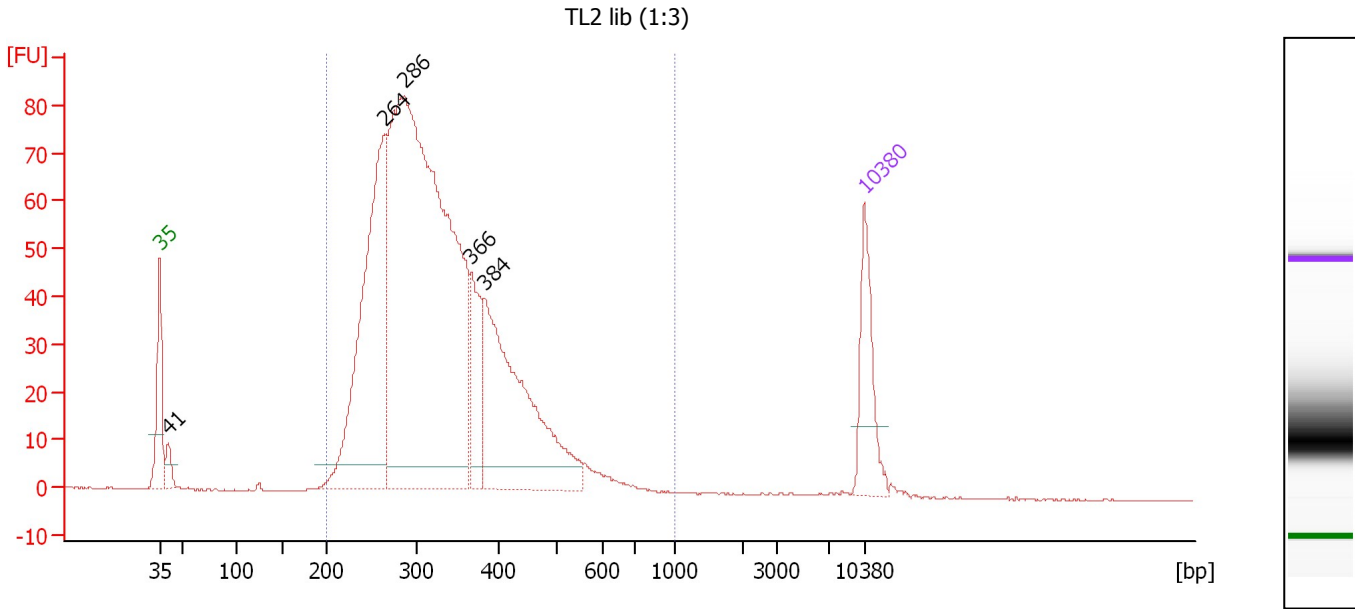
Region table for sample 7 : TL1 lib (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	329	1,000	1,406.6	11,495.7	98	24.9	2,334.33	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_002.xad

Created: 5/12/2015 1:37:54 PM
 Modified: 5/12/2015 2:23:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : TL2 lib (1:3)

Number of peaks found: 5 Corr. Area 1: 1,465.5
 Noise: 0.1

Peak table for sample 8 : TL2 lib (1:3)

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	29.23	1,085.8		43.85
3	264	512.10	2,935.4		65.36
4	286	1,337.09	7,088.5		67.27
5	366	99.10	409.9		73.89
6	384	370.09	1,460.4		75.32
7	10,380	75.00	10.9	Upper Marker	113.00

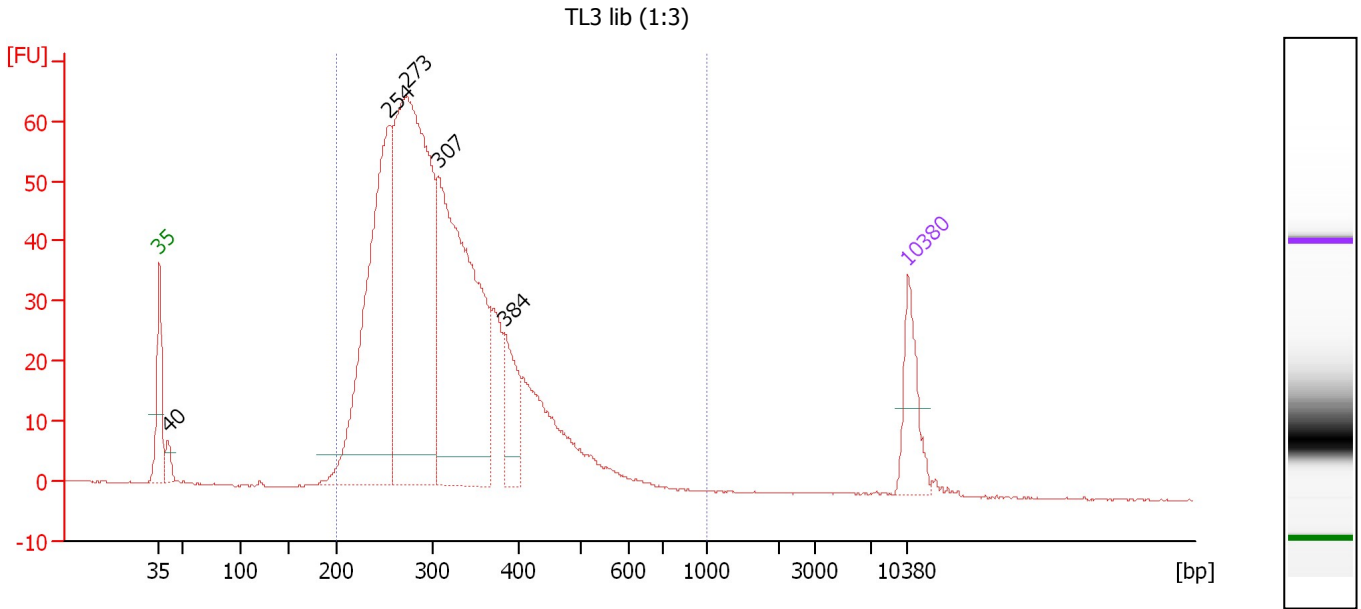
Region table for sample 8 : TL2 lib (1:3)

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	333	1,000	1,465.5	11,309.8	98	25.1	2,317.19	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_002.xad

Created: 5/12/2015 1:37:54 PM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : TL3 lib (1:3)

Number of peaks found: 5 Corr. Area 1: 1,162.0
 Noise: 0.1

Peak table for sample 9 : TL3 lib (1:3)

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	40	33.52	1,255.8		43.80
3	254	697.46	4,152.3		64.49
4	273	980.53	5,441.6		66.13
5	307	747.28	3,691.3		69.08
6	384	106.80	421.6		75.31
7	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 9 : TL3 lib (1:3)

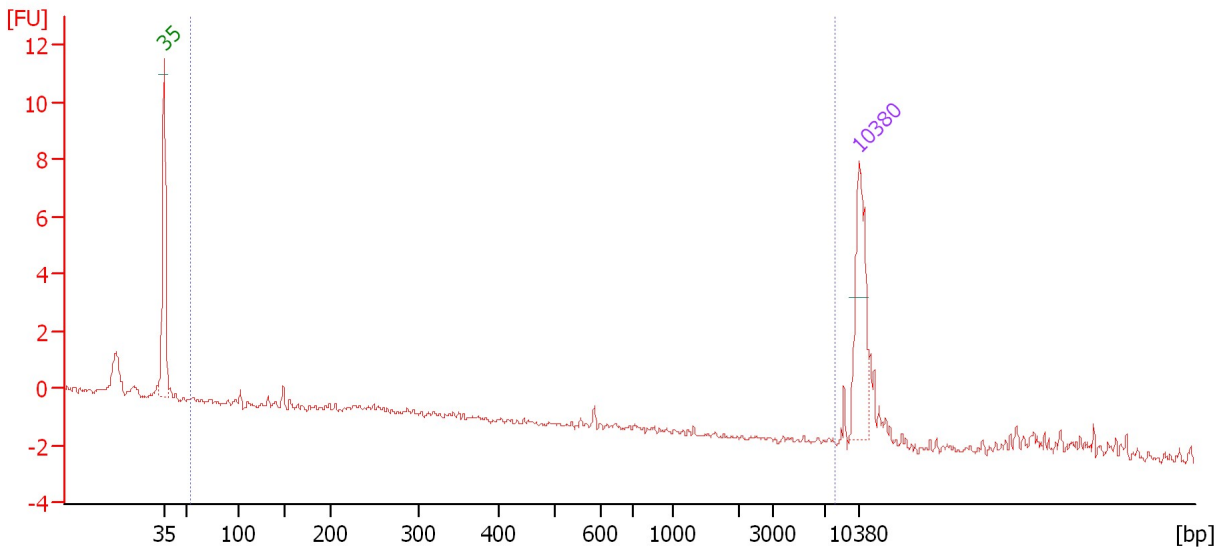
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
200	318	1,000	1,162.0	14,702.5	98	24.3	2,894.56	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_002.xad

Created: 5/12/2015 1:37:54 PM
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Electropherogram Summary Continued ...

HiSeq100 sheared circ. DNA



Overall Results for sample 10 : HiSeq100 sheared circ. DNA

Number of peaks found: 0 Corr. Area 1: 0.3
 Noise: 0.1

Peak table for sample 10 : HiSeq100 sheared circ. DNA

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

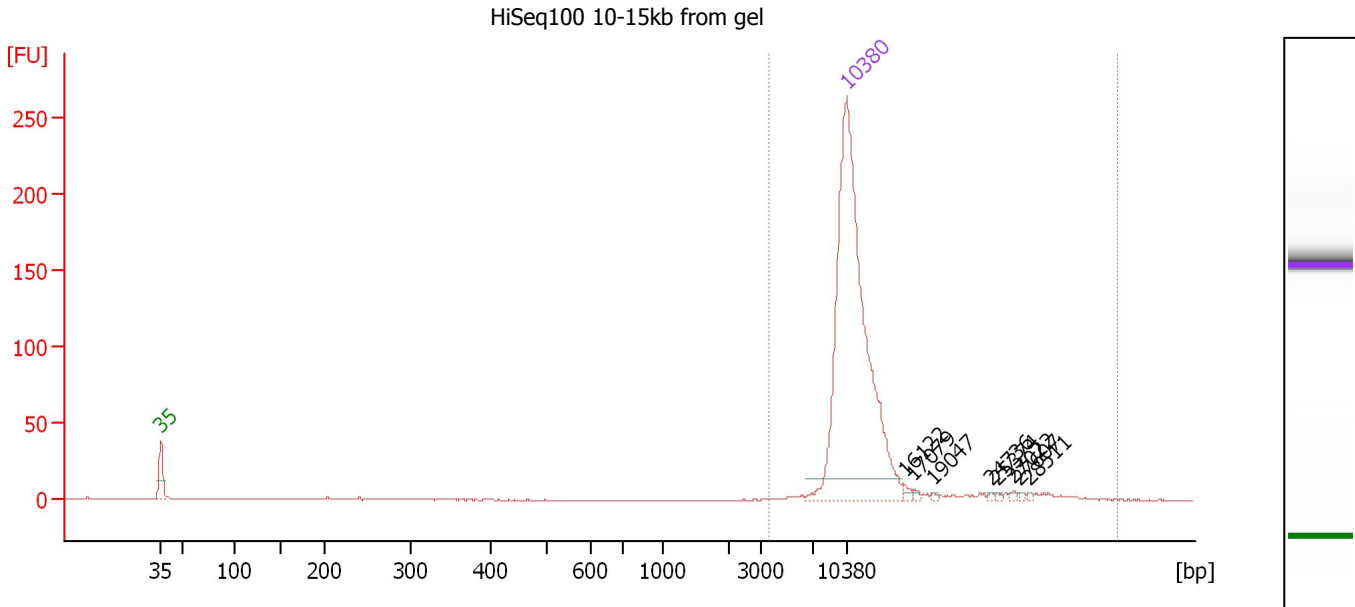
Region table for sample 10 : HiSeq100 sheared circ. DNA

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
54	310	7,908	0.3	41.8	5	70.7	4.47	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_002.xad

Created: 5/12/2015 1:37:54 PM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : HiSeq100 10-15kb from gel

Number of peaks found: 8 Corr. Area 1: 64.2
 Noise: 0.1

Peak table for sample 11 : HiSeq100 10-15kb from gel

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
3	16,122	0.00	0.0		118.88
4	17,079	0.00	0.0		119.86
5	19,047	0.00	0.0		121.87
6	24,736	0.00	0.0		127.70
7	25,374	0.00	0.0		128.35
8	27,022	0.00	0.0		130.04
9	27,607	0.00	0.0		130.64
10	28,511	0.00	0.0		131.56

Region table for sample 11 : HiSeq100 10-15kb from gel

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	% of Total	Size distribution in CV [%]	Conc. [pg/μl]	Color
3,555	12,173	37,394	64.2	0.8	94	35.6	6.19	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-12\2015-05-12_002.xad

Created: 5/12/2015 1:37:54 PM
Modified: 5/12/2015 2:23:57 PM

Gel Image