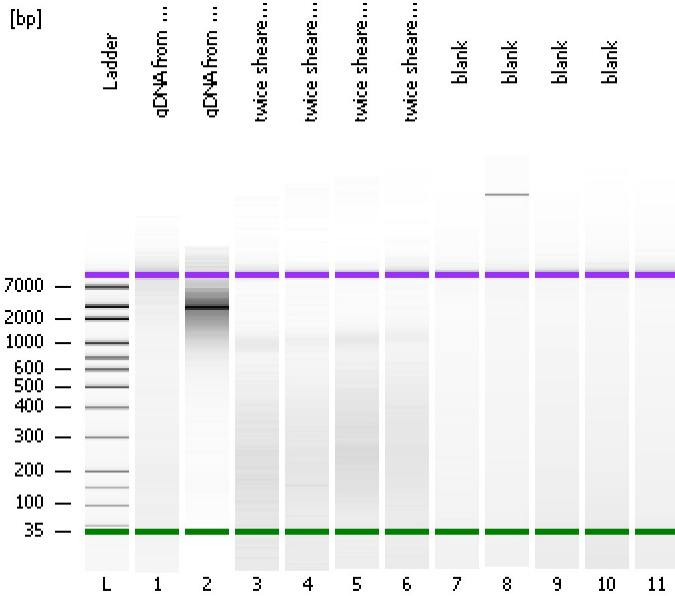


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
Modified: 9/11/2015 2:46:58 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

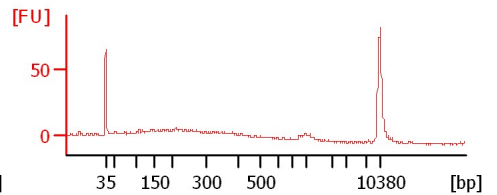
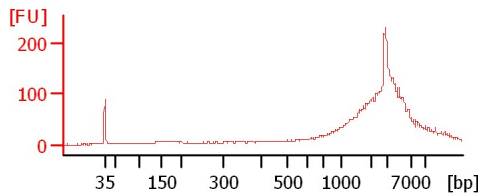
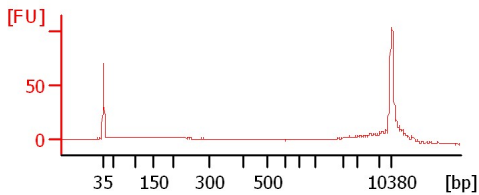
Chip Information:

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

gDNA from OE1 1to5

gDNA from OE2 1to5

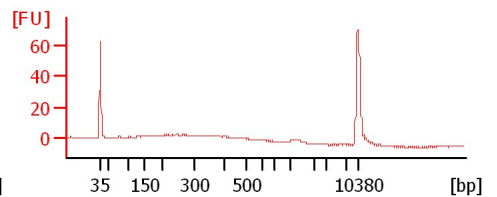
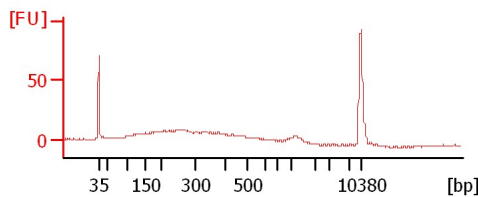
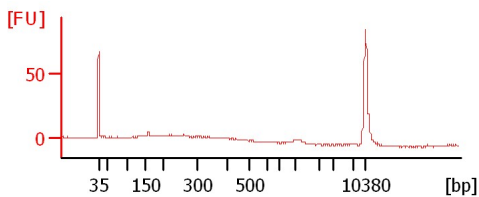
twice sheared OE1 1to5



twice sheared OE1 1to10

twice sheared OE2 1to5

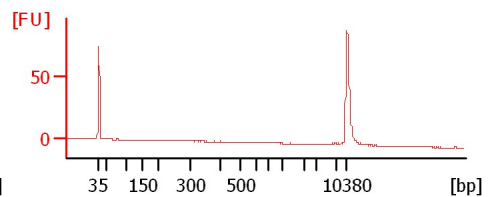
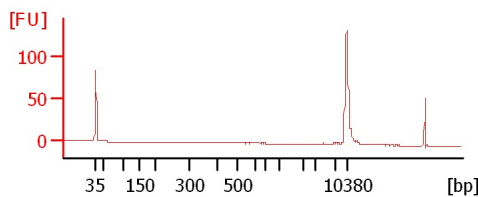
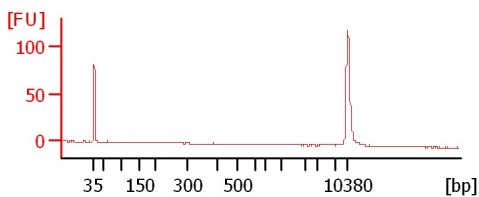
twice sheared OE2 1to10



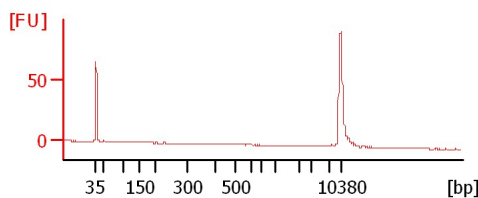
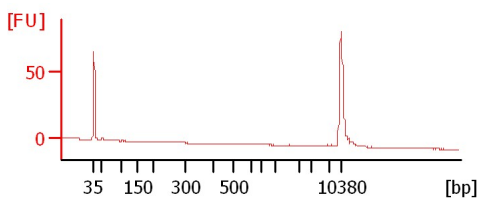
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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
Modified: 9/11/2015 2:46:58 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
gDNA from OE1 1to5		<input type="checkbox"/>	✓			
gDNA from OE2 1to5		<input type="checkbox"/>	✓			
twice sheared OE1 1to5		<input type="checkbox"/>	✓			
twice sheared OE1 1to10		<input type="checkbox"/>	✓			
twice sheared OE2 1to5		<input type="checkbox"/>	✓			
twice sheared OE2 1to10		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
blank		<input type="checkbox"/>	✓			
blank		<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\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
Modified: 9/11/2015 2:46:58 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

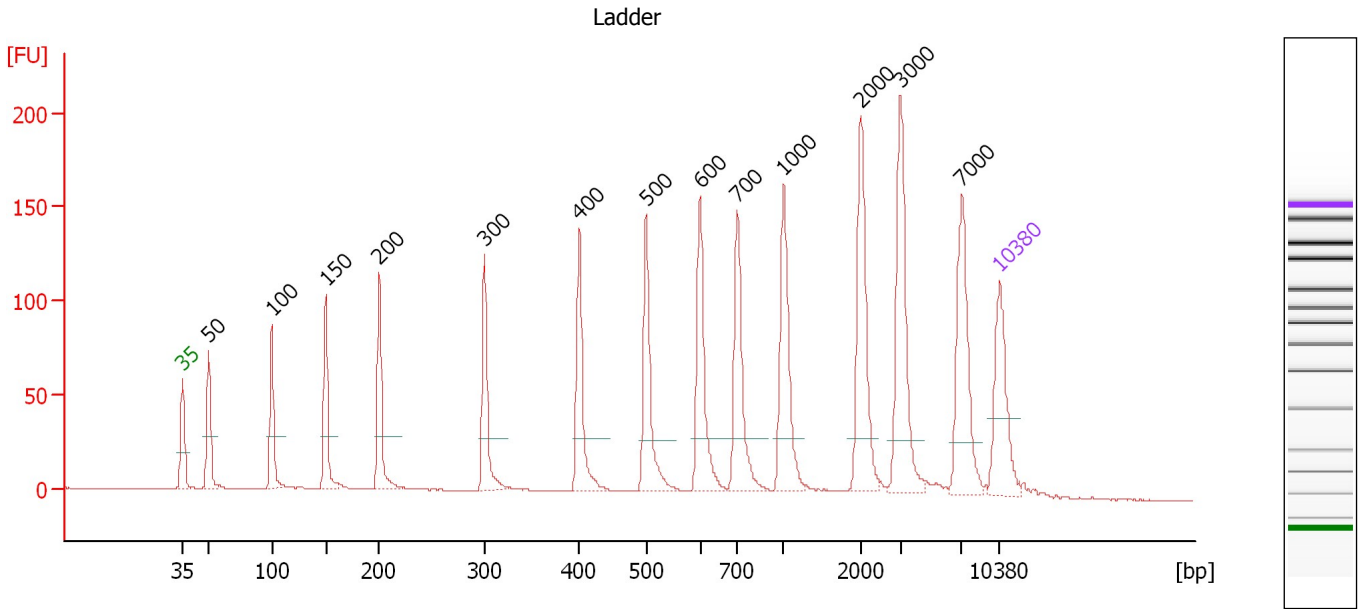
Ladder

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\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

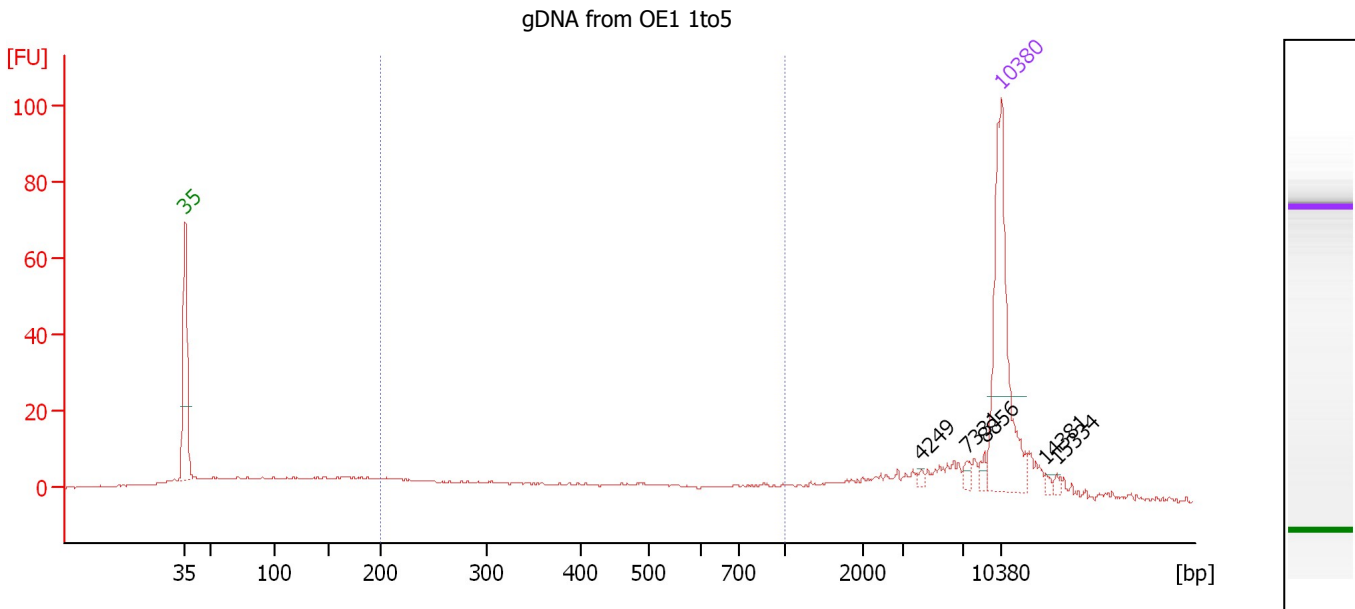
Peak table for Ladder

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	45.24
3	100	150.00	2,272.7	Ladder Peak	50.63
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	68.86
7	400	150.00	568.2	Ladder Peak	76.99
8	500	150.00	454.5	Ladder Peak	82.71
9	600	150.00	378.8	Ladder Peak	87.32
10	700	150.00	324.7	Ladder Peak	90.52
11	1,000	150.00	227.3	Ladder Peak	94.49
12	2,000	150.00	113.6	Ladder Peak	101.07
13	3,000	150.00	75.8	Ladder Peak	104.50
14	7,000	150.00	32.5	Ladder Peak	109.76
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : gDNA from OE1 1to5

Number of peaks found: 5 Corr. Area 1: 115.3
 Noise: 0.2

Peak table for sample 1 : gDNA from OE1 1to5

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	4,249	1.49	0.5		106.14
3	7,331	3.22	0.7		110.07
4	8,856	3.27	0.6		111.54
5	10,380	75.00	10.9	Upper Marker	113.00
6	14,381	0.00	0.0		116.84
7	15,334	0.00	0.0		117.76

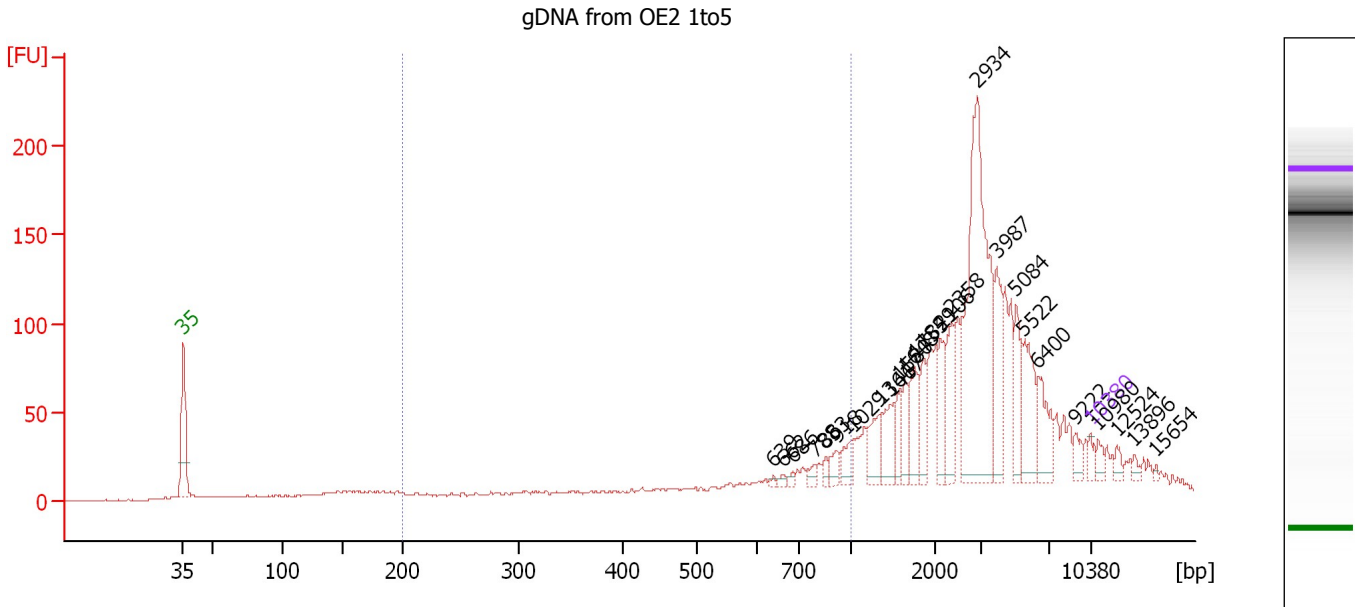
Region table for sample 1 : gDNA from OE1 1to5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	440	1,000	115.3	464.5	32	45.0	104.12

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : gDNA from OE2 1to5

Number of peaks found: 25 Corr. Area 1: 135.8
 Noise: 0.2

Peak table for sample 2 : gDNA from OE2 1to5

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	639	33.80	80.2		88.56
3	662	46.45	106.4		89.30
4	686	38.68	85.4		90.08
5	788	85.05	163.6		91.68
6	853	76.98	136.7		92.55
7	918	140.03	231.1		93.41
8	1,029	201.54	296.7		94.69
9	1,361	342.97	381.9		96.87
10	1,467	335.70	346.7		97.57
11	1,580	215.91	207.1		98.31
12	1,648	237.32	218.1		98.76
13	1,755	392.12	338.6		99.46
14	1,849	295.36	242.1		100.08
15	2,106	339.32	244.2		101.44
16	2,358	441.11	283.5		102.30
17	2,934	2,718.22	1,403.6		104.28
18	3,987	570.48	216.8		105.80
19	5,084	368.99	110.0		107.24
20	5,522	566.04	155.3		107.81
21	6,400	444.44	105.2		108.97
22	9,222	119.13	19.6		111.89
23	10,380	75.00	10.9	Upper Marker	113.00
24	10,980	0.00	0.0		113.58
25	12,524	0.00	0.0		115.06


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...**... Peak table for sample 2 : gDNA from OE2 1to5**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	13,896	0.00	0.0		116.37
27	15,654	0.00	0.0		118.06

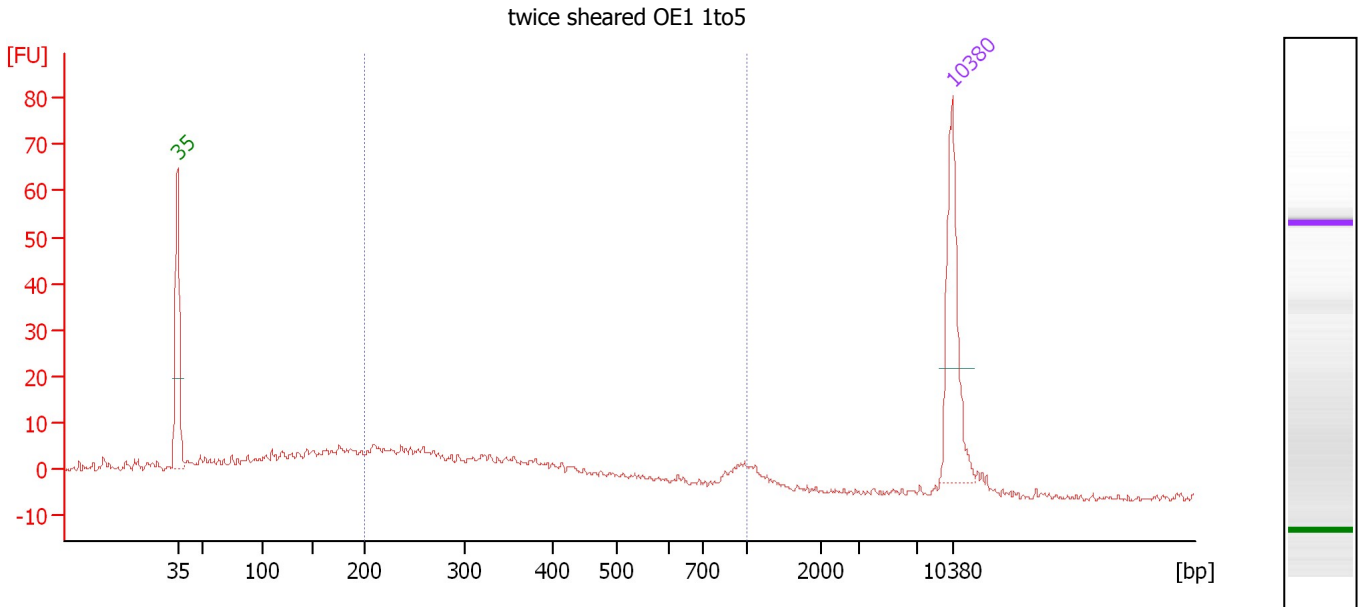
Region table for sample 2 : gDNA from OE2 1to5

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	743	1,000	135.8	2,805.7	 8	25.1	1,176.24

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : twice sheared OE1 1to5

Number of peaks found: 0 Corr. Area 1: 156.0
 Noise: 0.8

Peak table for sample 3 : twice sheared OE1 1to5

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

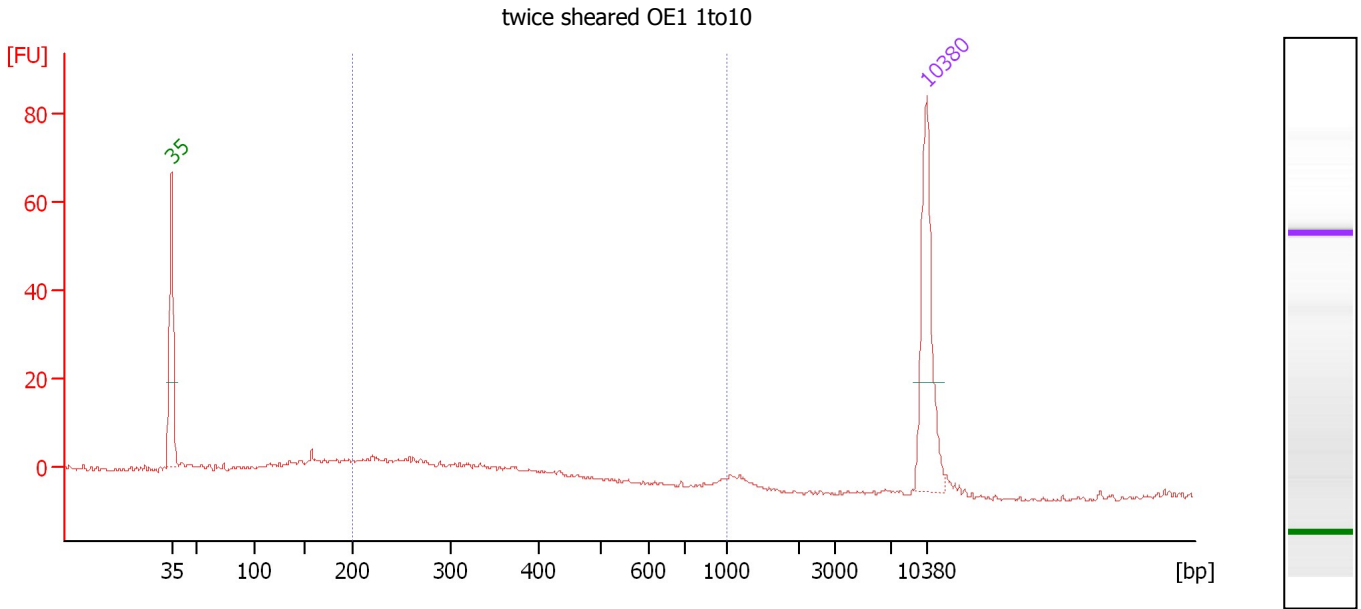
Region table for sample 3 : twice sheared OE1 1to5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	376	1,000	156.0	1,079.6	53	49.7	216.32

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : twice sheared OE1 1to10

Number of peaks found: 0 Corr. Area 1: 90.8
 Noise: 0.4

Peak table for sample 4 : twice sheared OE1 1to10

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

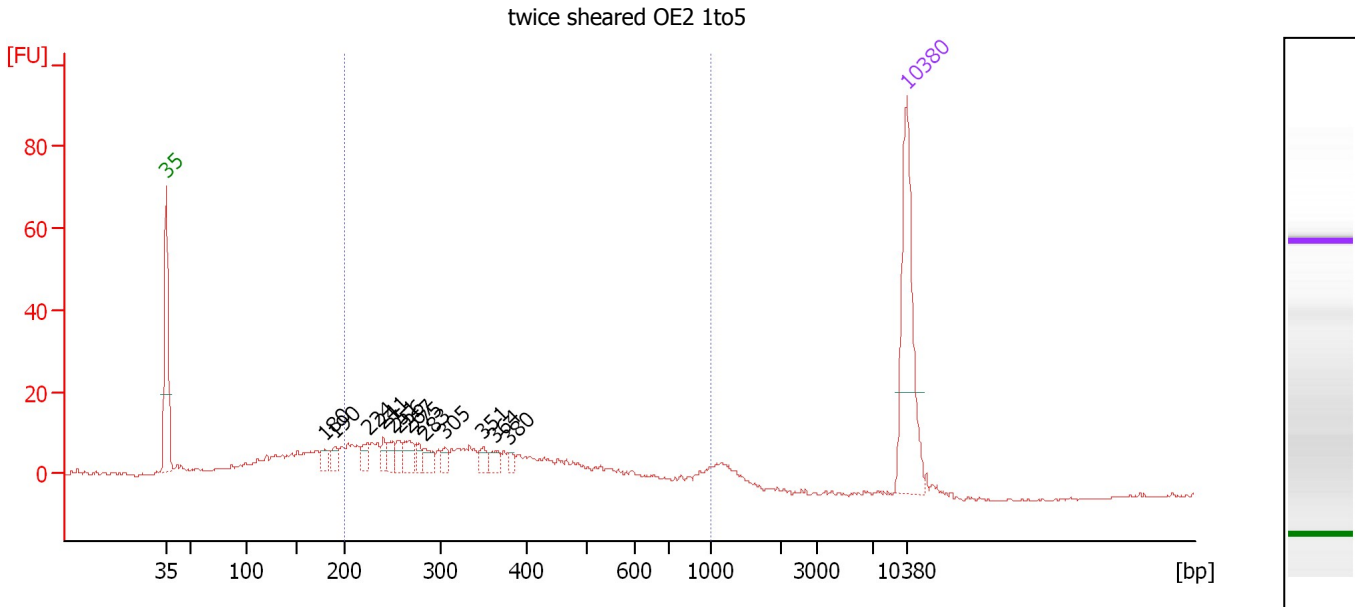
Region table for sample 4 : twice sheared OE1 1to10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	320	1,000	90.8	632.9	54	35.8	120.05

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : twice sheared OE2 1to5

Number of peaks found: 13 Corr. Area 1: 282.1
 Noise: 0.3

Peak table for sample 5 : twice sheared OE2 1to5

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	180	9.34	78.6		58.02
3	190	8.25	65.7		58.98
4	224	10.08	68.1		62.05
5	241	9.27	58.4		63.51
6	251	9.73	58.8		64.42
7	256	9.89	58.6		64.87
8	267	14.96	84.9		65.88
9	275	7.68	42.3		66.64
10	283	10.01	53.6		67.34
11	305	6.83	33.9		69.31
12	351	7.74	33.4		72.99
13	364	8.36	34.8		74.09
14	380	4.43	17.6		75.40
15	10,380	75.00	10.9	Upper Marker	113.00

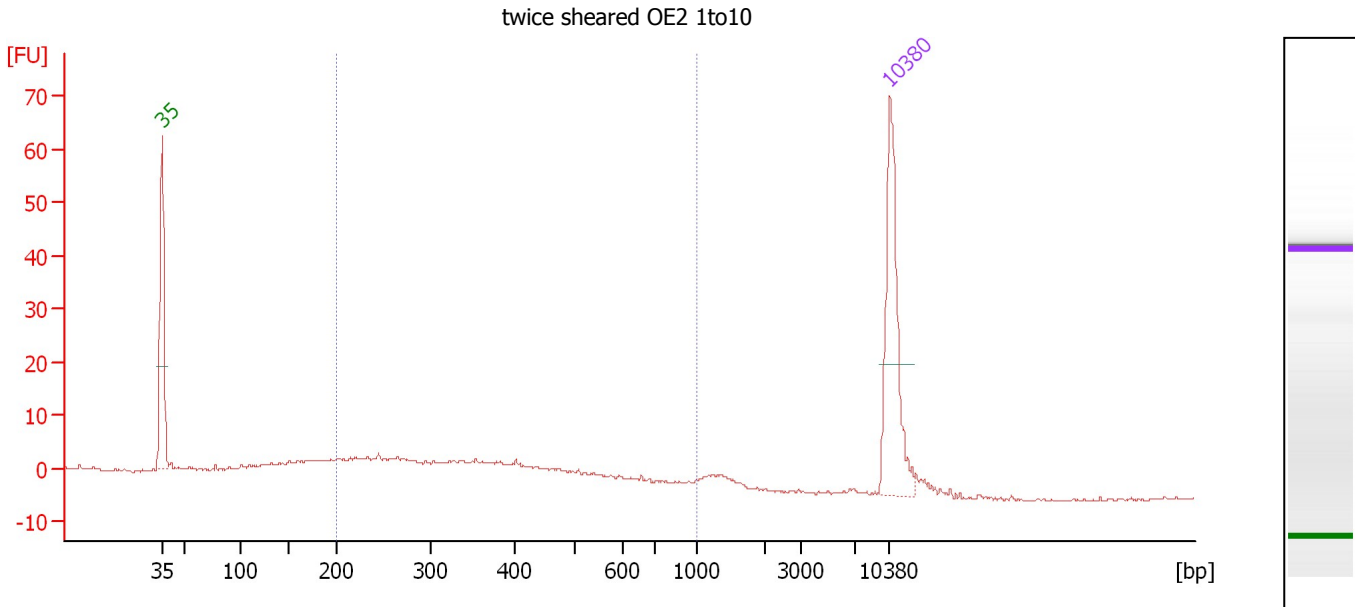
Region table for sample 5 : twice sheared OE2 1to5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	377	1,000	282.1	1,518.4	65	42.4	314.43

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : twice sheared OE2 1to10

Number of peaks found: 0 Corr. Area 1: 114.3
 Noise: 0.2

Peak table for sample 6 : twice sheared OE2 1to10

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

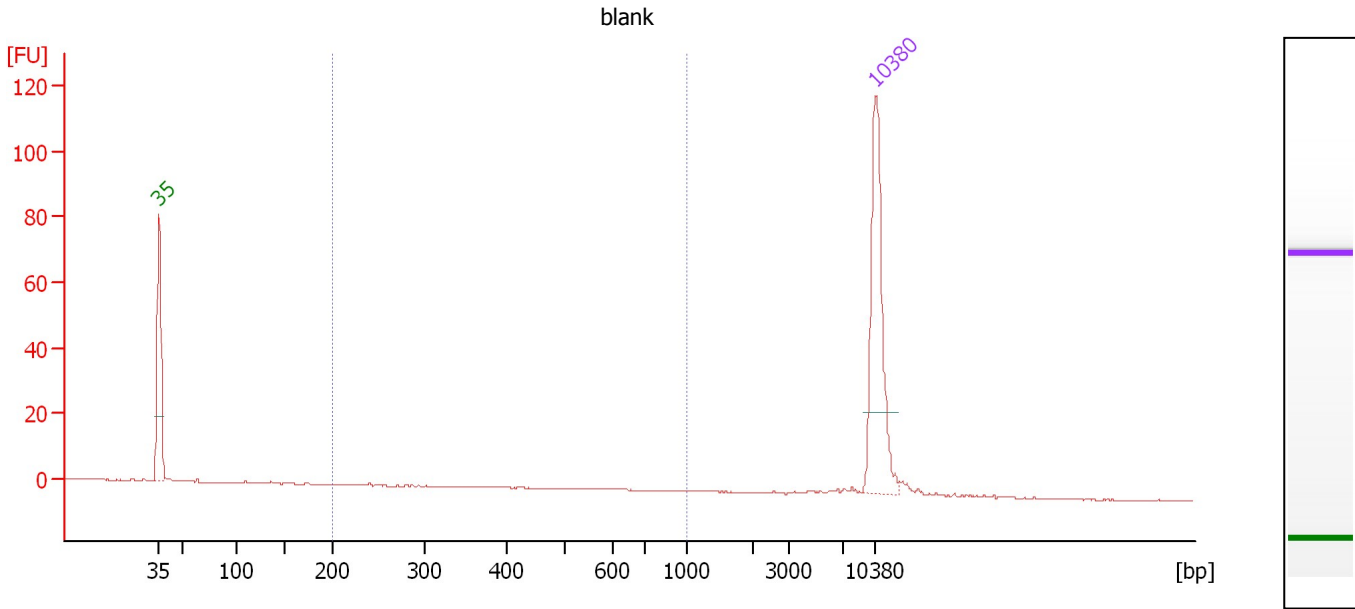
Region table for sample 6 : twice sheared OE2 1to10

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	370	1,000	114.3	731.5	66	37.0	152.70

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : blank

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

Peak table for sample 7 : blank

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

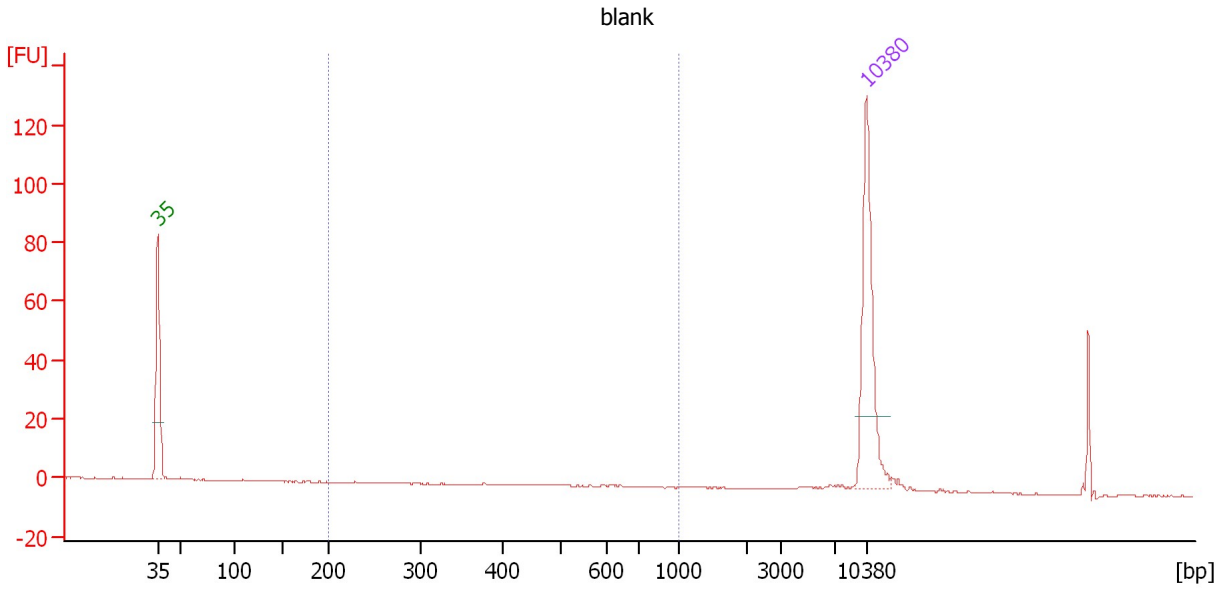
Region table for sample 7 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	365	1,000	0.3	1.5	3	39.3	0.29

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : blank

Number of peaks found: 0 Corr. Area 1: 2.6
 Noise: 0.1

Peak table for sample 8 : blank

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

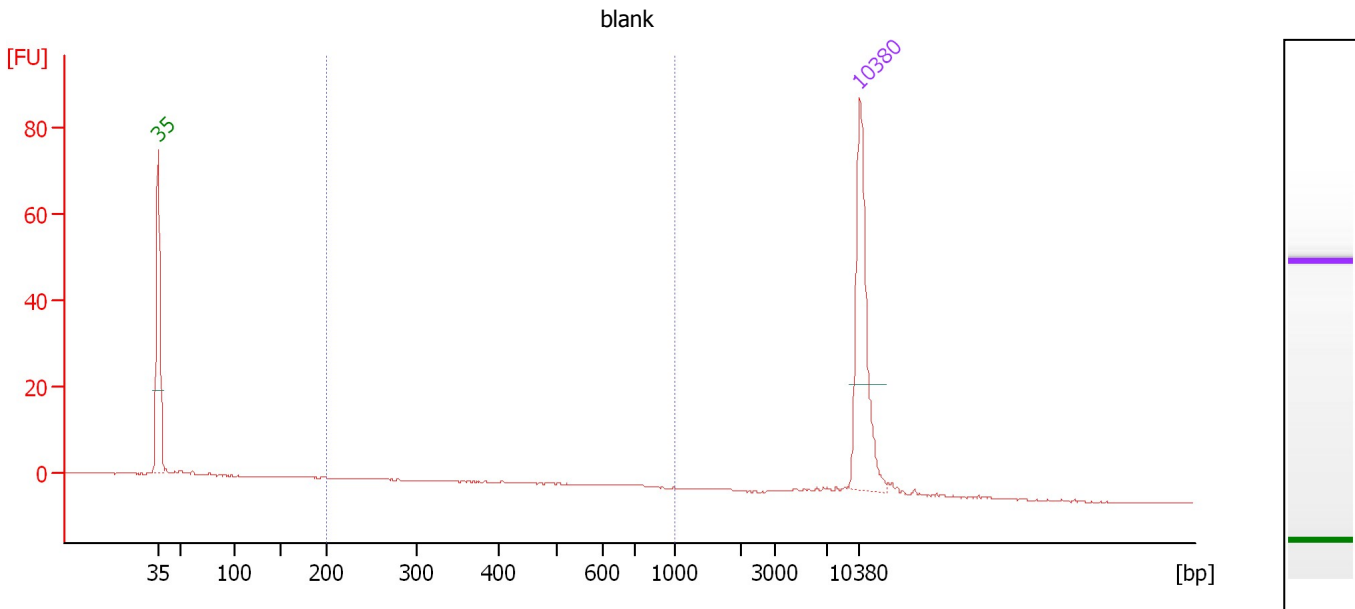
Region table for sample 8 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	579	1,000	2.6	5.8	8	24.9	1.98

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : blank

Number of peaks found: 0 Corr. Area 1: 19.8
 Noise: 0.1

Peak table for sample 9 : blank

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

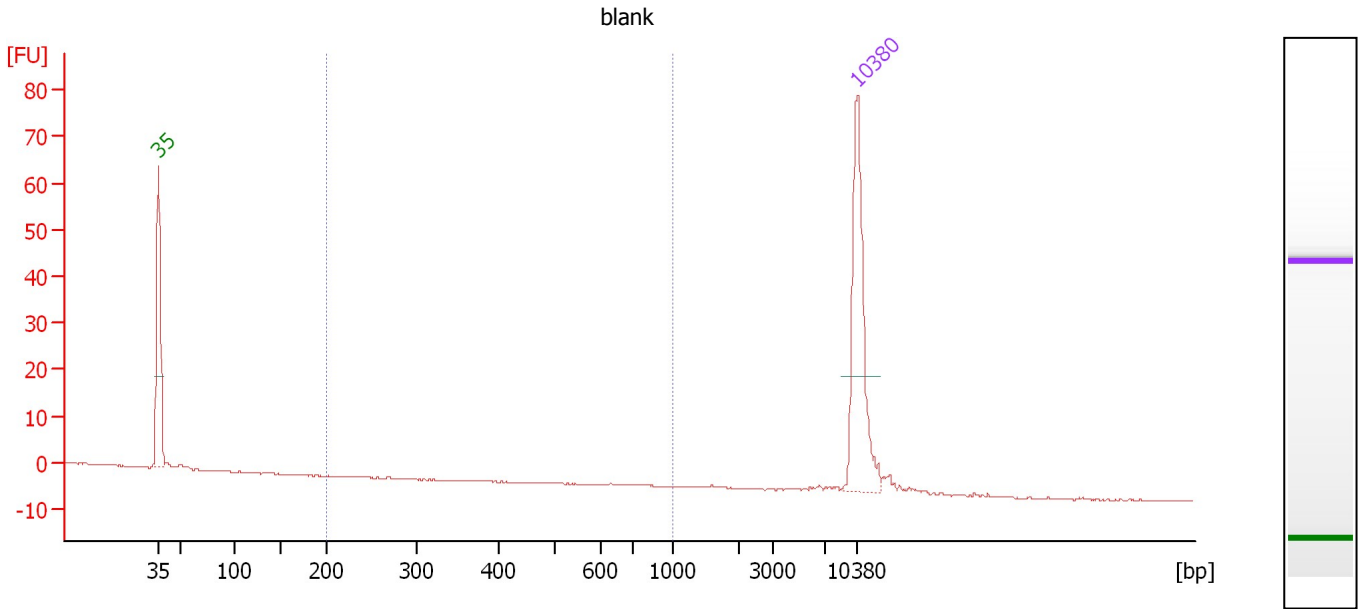
Region table for sample 9 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	465	1,000	19.8	90.0	42	38.7	22.04

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : blank

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

Peak table for sample 10 : blank

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

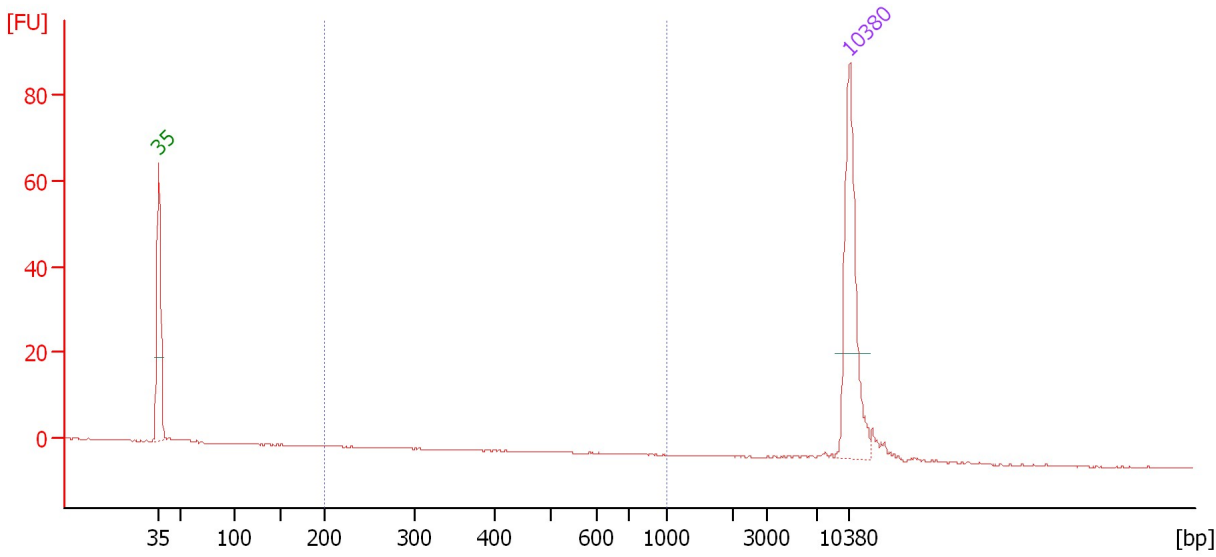
Region table for sample 10 : blank

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior 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\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
 Modified: 9/11/2015 2:46:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 :

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

Peak table for sample 11 :

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 :

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior 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\2015-09-11\2015-09-11_004.xad

Created: 9/11/2015 2:06:31 PM
Modified: 9/11/2015 2:46:58 PM

Gel Image

