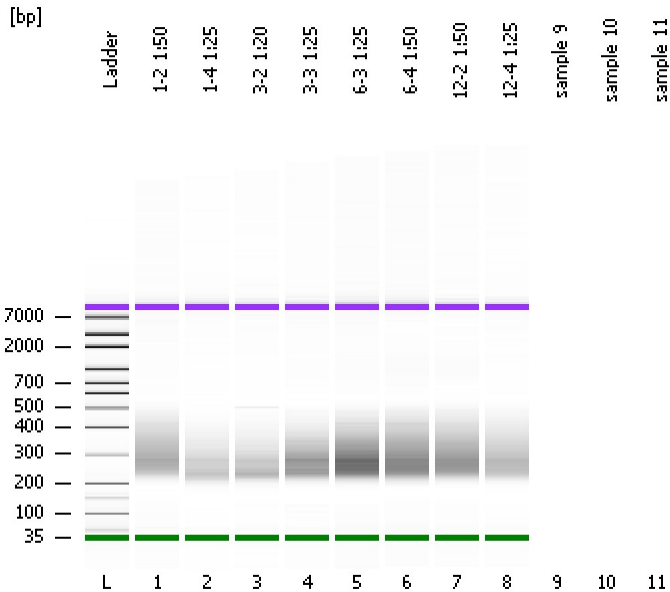


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
Modified: 6/24/2015 4:02:47 PM

Electrophoresis File Run Summary



Instrument Information:

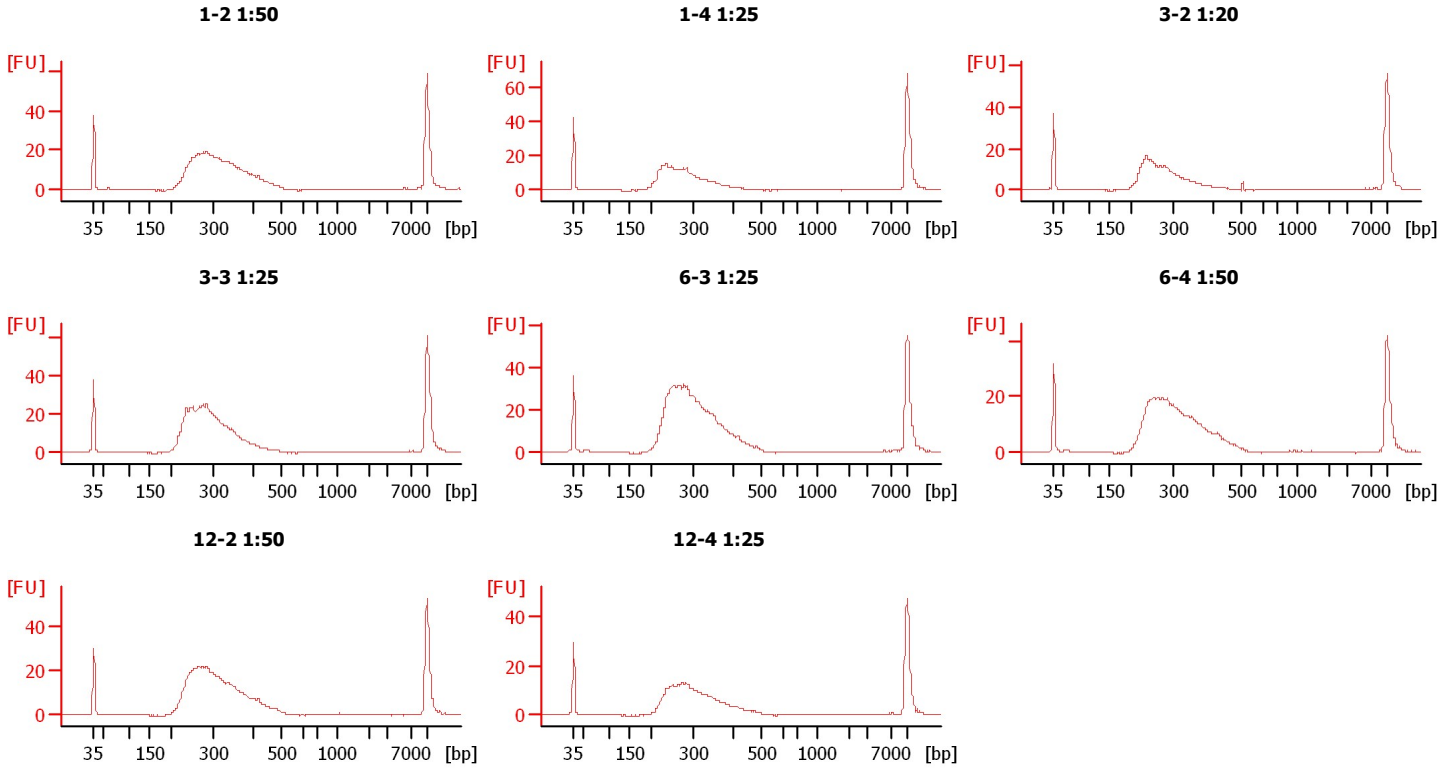
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
Modified: 6/24/2015 4:02:47 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
1-2 1:50		<input type="checkbox"/>	✓			
1-4 1:25		<input type="checkbox"/>	✓			
3-2 1:20		<input type="checkbox"/>	✓			
3-3 1:25		<input type="checkbox"/>	✓			
6-3 1:25		<input type="checkbox"/>	✓			
6-4 1:50		<input type="checkbox"/>	✓			
12-2 1:50		<input type="checkbox"/>	✓			
12-4 1:25		<input type="checkbox"/>	✓			
sample 9		<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\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
Modified: 6/24/2015 4:02:47 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

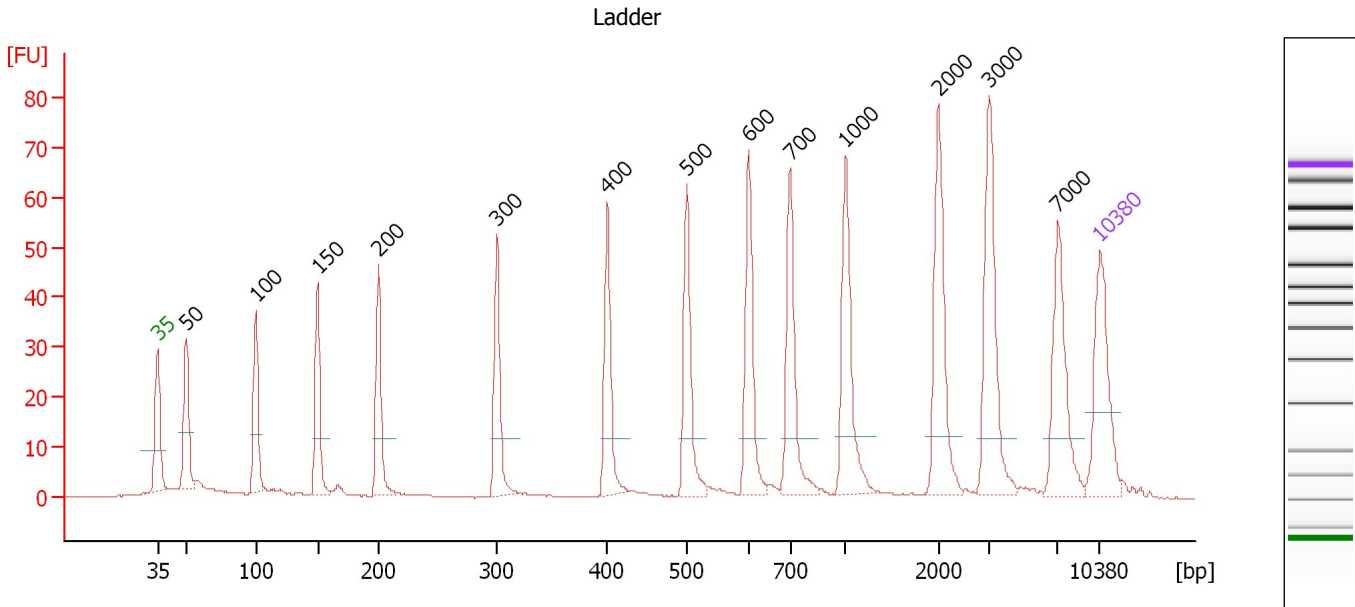
Ladder

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\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
 Modified: 6/24/2015 4:02:47 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

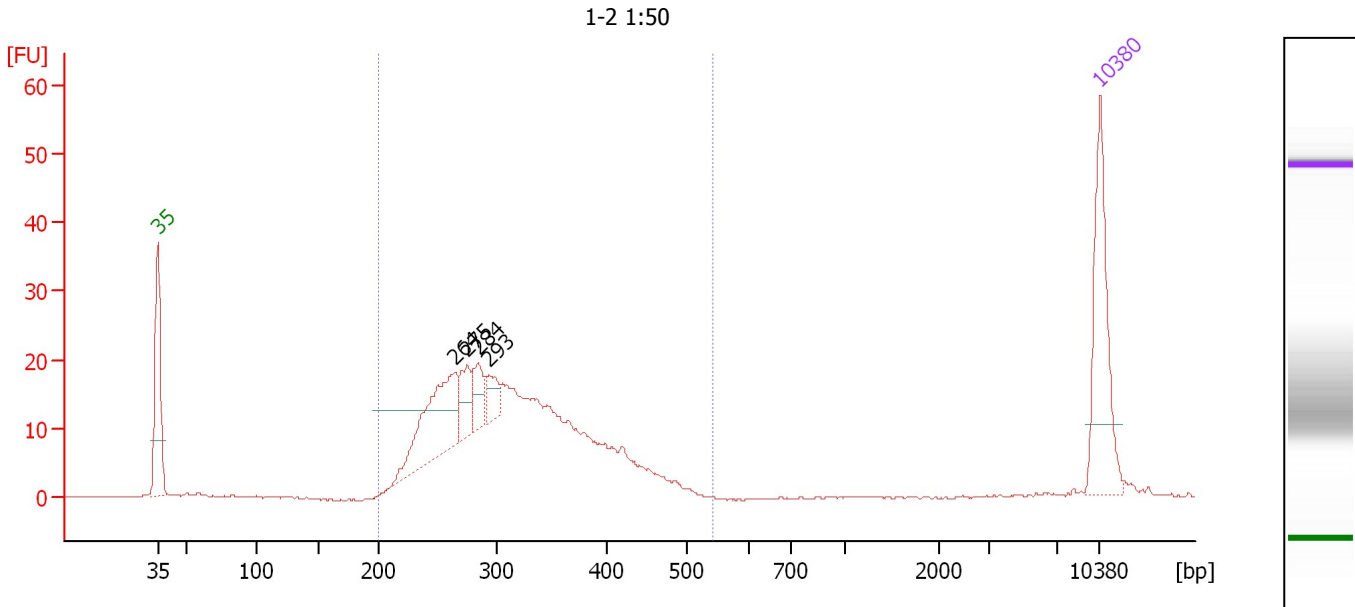
Peak table for Ladder

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	45.11
3	100	150.00	2,272.7	Ladder Peak	50.28
4	150	150.00	1,515.2	Ladder Peak	54.90
5	200	150.00	1,136.4	Ladder Peak	59.40
6	300	150.00	757.6	Ladder Peak	68.24
7	400	150.00	568.2	Ladder Peak	76.42
8	500	150.00	454.5	Ladder Peak	82.31
9	600	150.00	378.8	Ladder Peak	86.92
10	700	150.00	324.7	Ladder Peak	89.98
11	1,000	150.00	227.3	Ladder Peak	94.10
12	2,000	150.00	113.6	Ladder Peak	100.99
13	3,000	150.00	75.8	Ladder Peak	104.77
14	7,000	150.00	32.5	Ladder Peak	109.89
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : 1-2 1:50

Number of peaks found: 4 Corr. Area 1: 329.0
 Noise: 0.1

Peak table for sample 1 : 1-2 1:50

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	264	112.02	642.8		65.06
3	275	32.26	177.9		66.02
4	284	26.40	140.7		66.86
5	293	20.64	106.7		67.64
6	10,380	75.00	10.9	Upper Marker	113.00

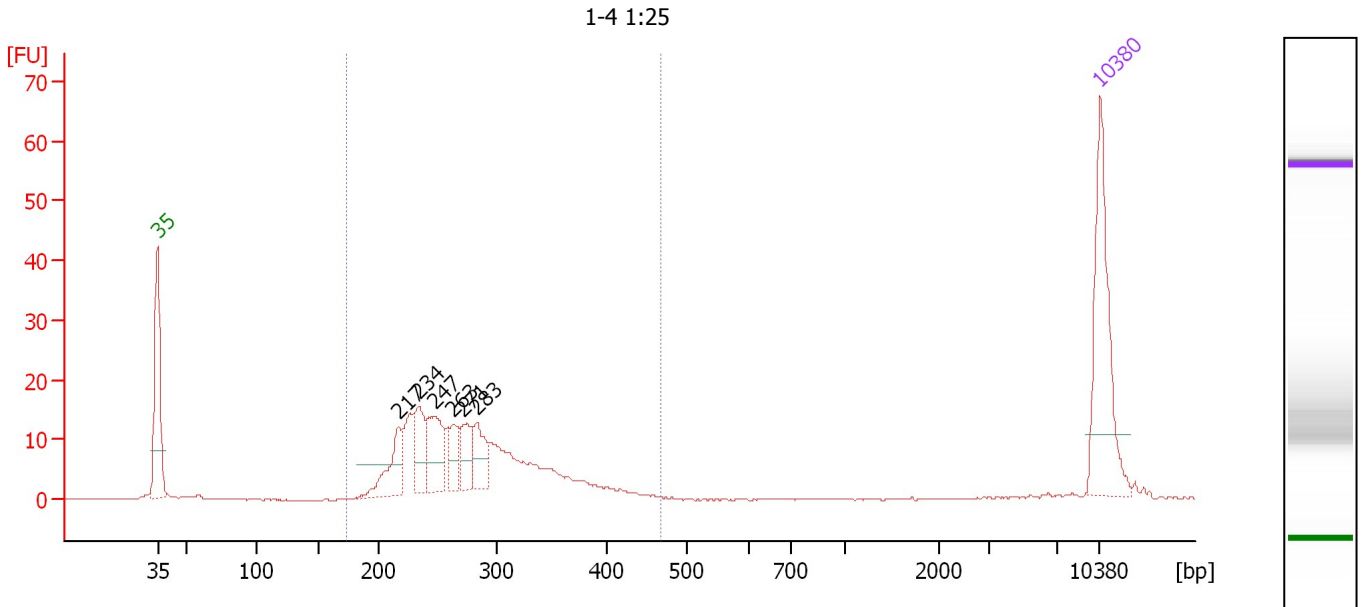
Region table for sample 1 : 1-2 1:50

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	541	329.0	3,527.2	97	19.7	701.79

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
 Modified: 6/24/2015 4:02:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1-4 1:25

Number of peaks found: 6 Corr. Area 1: 207.8
 Noise: 0.1

Peak table for sample 2 : 1-4 1:25

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	217	40.03	279.6		60.90
3	234	36.02	233.0		62.43
4	247	44.18	271.0		63.56
5	263	21.56	124.2		64.97
6	271	24.31	136.1		65.65
7	283	28.99	155.3		66.73
8	10,380	75.00	10.9	Upper Marker	113.00

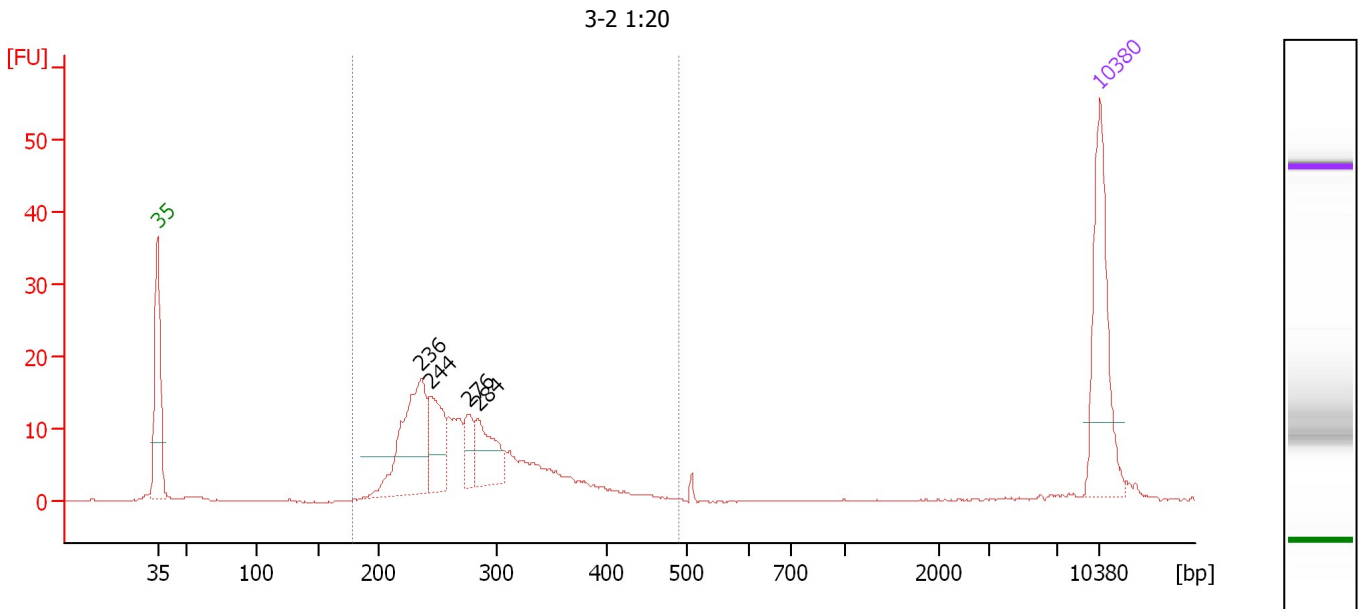
Region table for sample 2 : 1-4 1:25

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
173	278	466	207.8	2,138.4	96	18.9	378.66

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
 Modified: 6/24/2015 4:02:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3-2 1:20

Number of peaks found: 4 Corr. Area 1: 189.6
 Noise: 0.1

Peak table for sample 3 : 3-2 1:20

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	236	117.83	756.2		62.59
3	244	54.67	339.7		63.28
4	276	24.02	131.7		66.14
5	284	46.37	247.4		66.83
6	10,380	75.00	10.9	Upper Marker	113.00

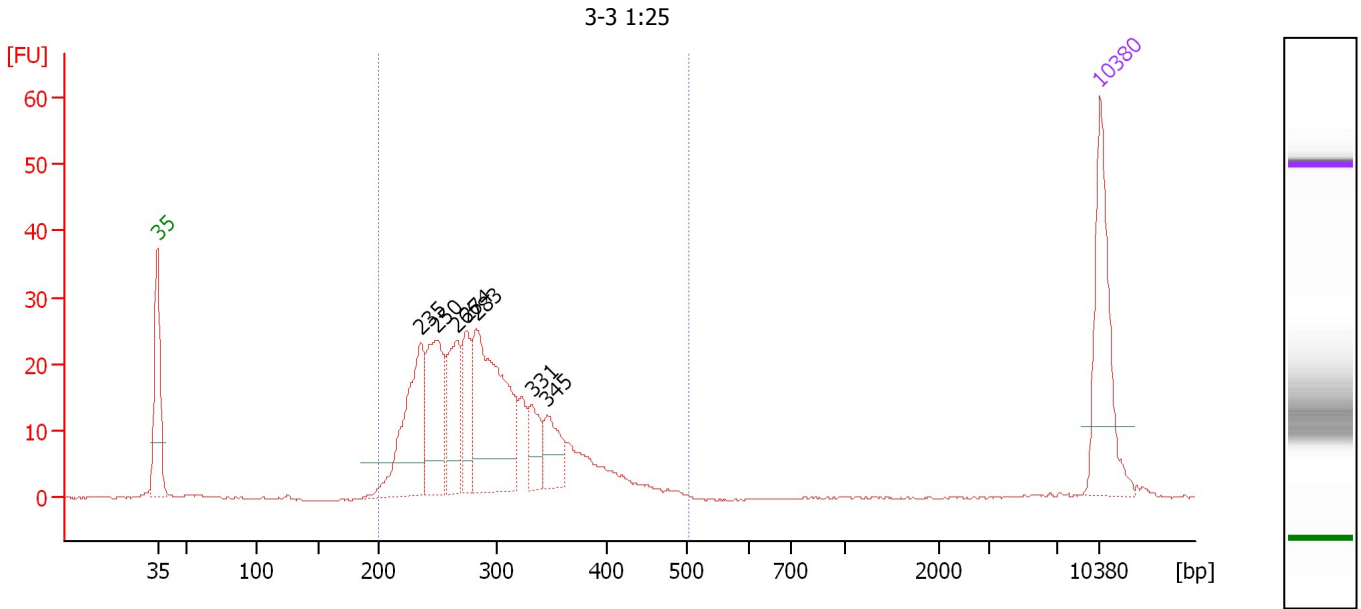
Region table for sample 3 : 3-2 1:20

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
179	278	490	189.6	2,299.5	96	18.6	407.97

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
 Modified: 6/24/2015 4:02:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 3-3 1:25

Number of peaks found: 7 Corr. Area 1: 366.0
 Noise: 0.1

Peak table for sample 4 : 3-3 1:25

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	235	128.69	829.6		62.50
3	250	98.56	598.4		63.78
4	266	71.11	404.9		65.24
5	274	51.06	282.4		65.94
6	283	179.62	963.1		66.70
7	331	30.47	139.4		70.79
8	345	37.72	165.4		71.96
9	10,380	75.00	10.9	Upper Marker	113.00

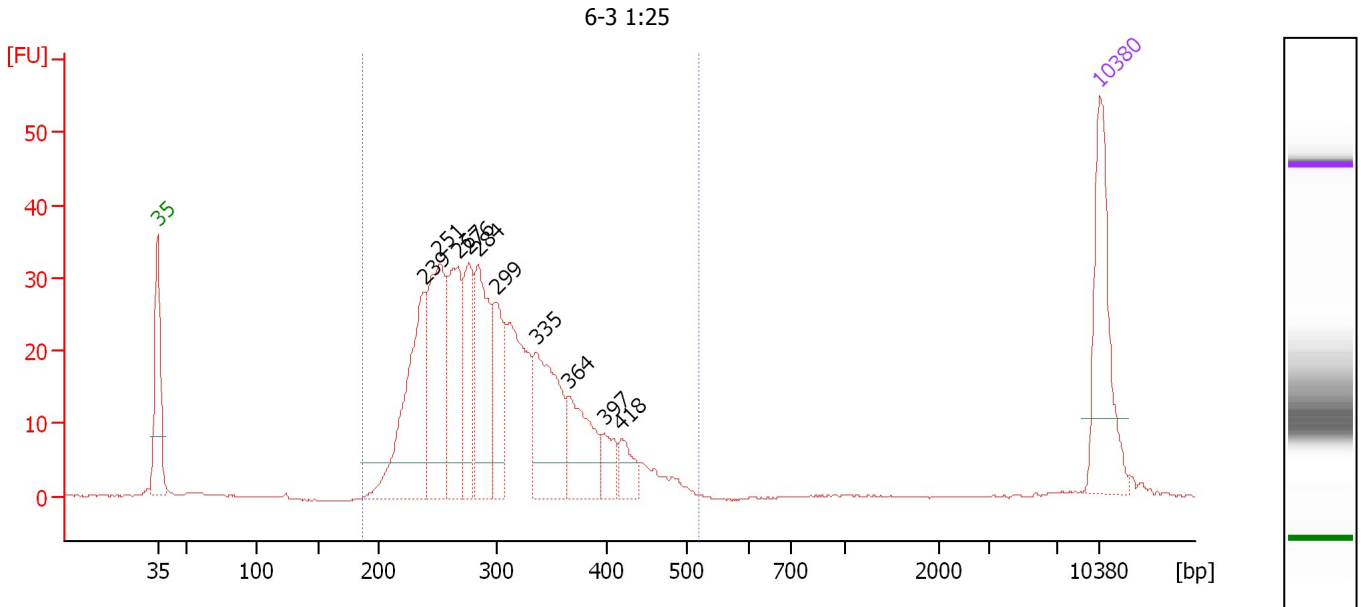
Region table for sample 4 : 3-3 1:25

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	293	502	366.0	3,846.8	98	18.5	717.44

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
 Modified: 6/24/2015 4:02:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 6-3 1:25

Number of peaks found: 10 Corr. Area 1: 508.0
 Noise: 0.1

Peak table for sample 5 : 6-3 1:25

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	239	158.08	1,004.3		62.81
3	251	141.49	853.4		63.93
4	267	110.43	627.6		65.29
5	276	71.12	390.5		66.12
6	284	114.26	609.6		66.83
7	299	63.60	322.6		68.13
8	335	113.58	513.0		71.14
9	364	67.43	280.3		73.51
10	397	22.08	84.3		76.17
11	418	22.33	81.0		77.47
12	10,380	75.00	10.9	Upper Marker	113.00

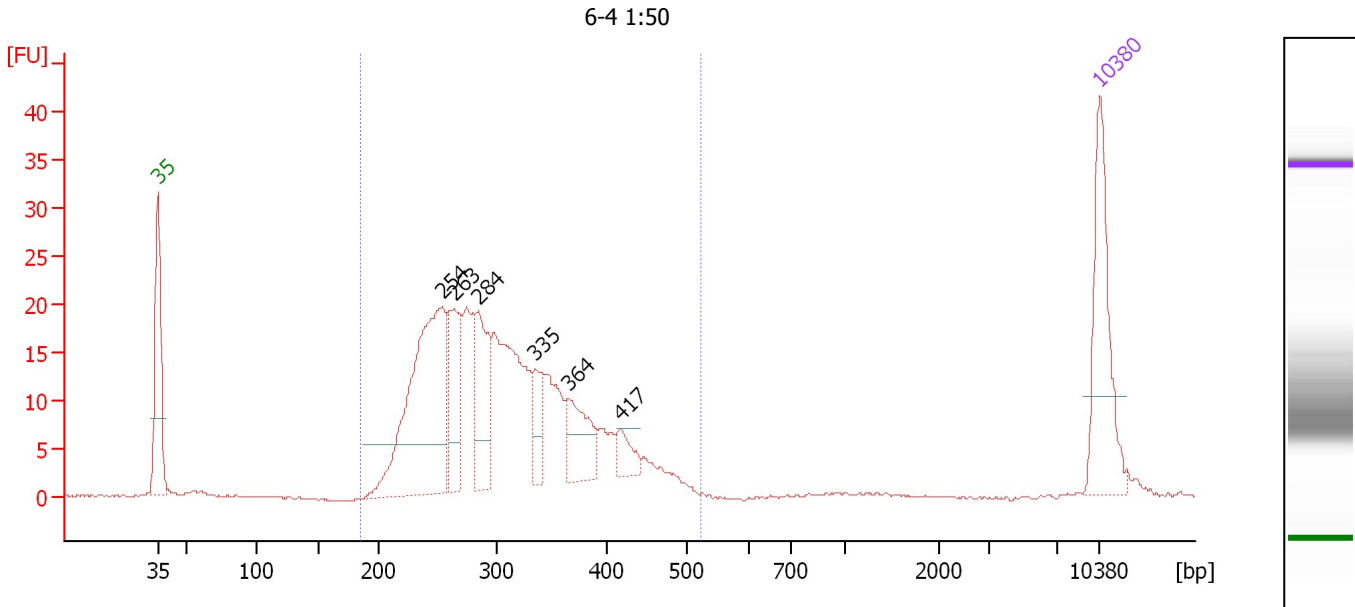
Region table for sample 5 : 6-3 1:25

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
186	302	519	508.0	5,342.3	99	19.6	1,018.24

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
 Modified: 6/24/2015 4:02:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6-4 1:50

Number of peaks found: 6 Corr. Area 1: 340.7
 Noise: 0.1

Peak table for sample 6 : 6-4 1:50

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	254	242.91	1,449.6		64.17
3	263	66.51	382.7		65.00
4	284	78.24	418.1		66.79
5	335	32.84	148.6		71.08
6	364	50.58	210.6		73.47
7	417	18.91	68.7		77.40
8	10,380	75.00	10.9	Upper Marker	113.00

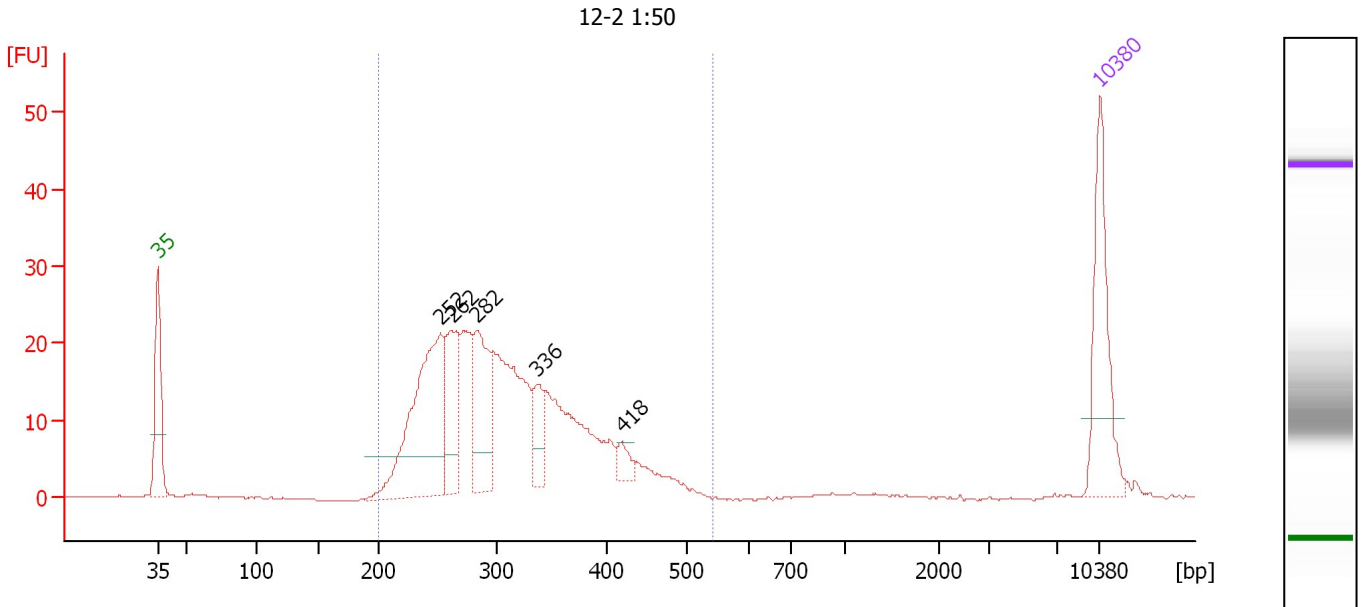
Region table for sample 6 : 6-4 1:50

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
185	308	522	340.7	4,637.6	98	20.7	896.10

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
 Modified: 6/24/2015 4:02:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 12-2 1:50

Number of peaks found: 5 Corr. Area 1: 361.2
 Noise: 0.1

Peak table for sample 7 : 12-2 1:50

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	252	199.57	1,198.9		64.02
3	262	71.00	411.0		64.86
4	282	90.60	486.3		66.68
5	336	30.09	135.6		71.21
6	418	12.75	46.2		77.49
7	10,380	75.00	10.9	Upper Marker	113.00

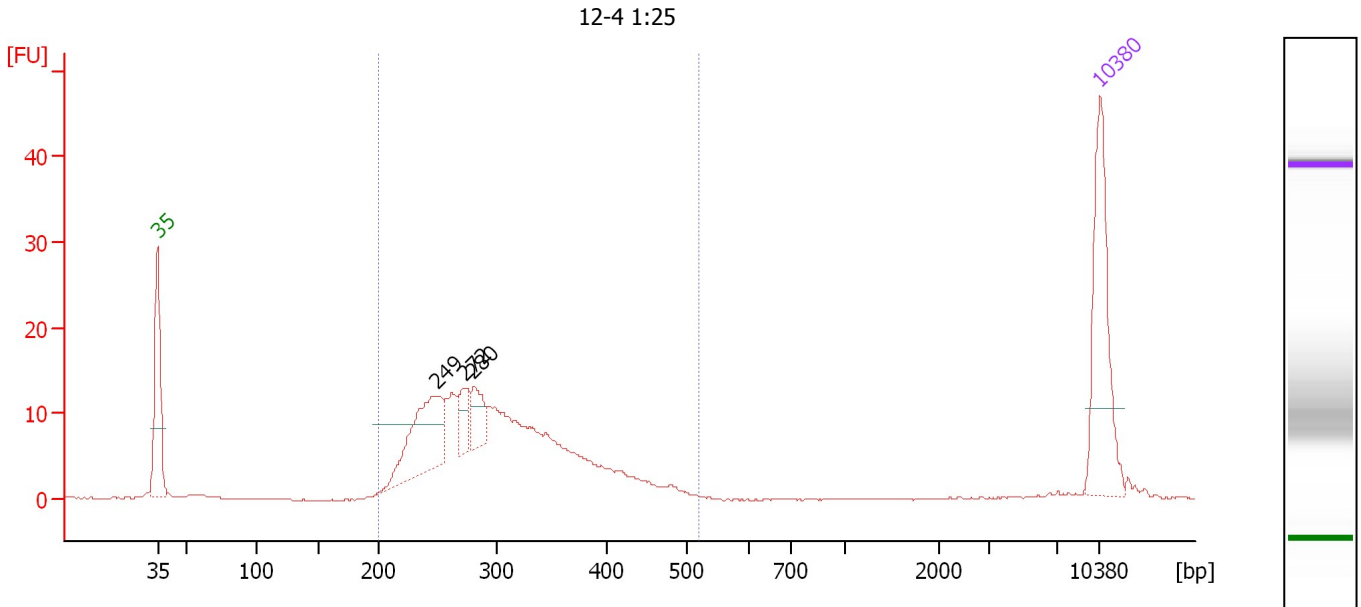
Region table for sample 7 : 12-2 1:50

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	310	541	361.2	4,321.6	98	20.2	841.11

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
 Modified: 6/24/2015 4:02:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 12-4 1:25

Number of peaks found: 3 Corr. Area 1: 203.5
 Noise: 0.1

Peak table for sample 8 : 12-4 1:25

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	249	91.03	553.6		63.75
3	272	22.17	123.3		65.81
4	280	25.32	137.0		66.47
5	10,380	75.00	10.9	Upper Marker	113.00

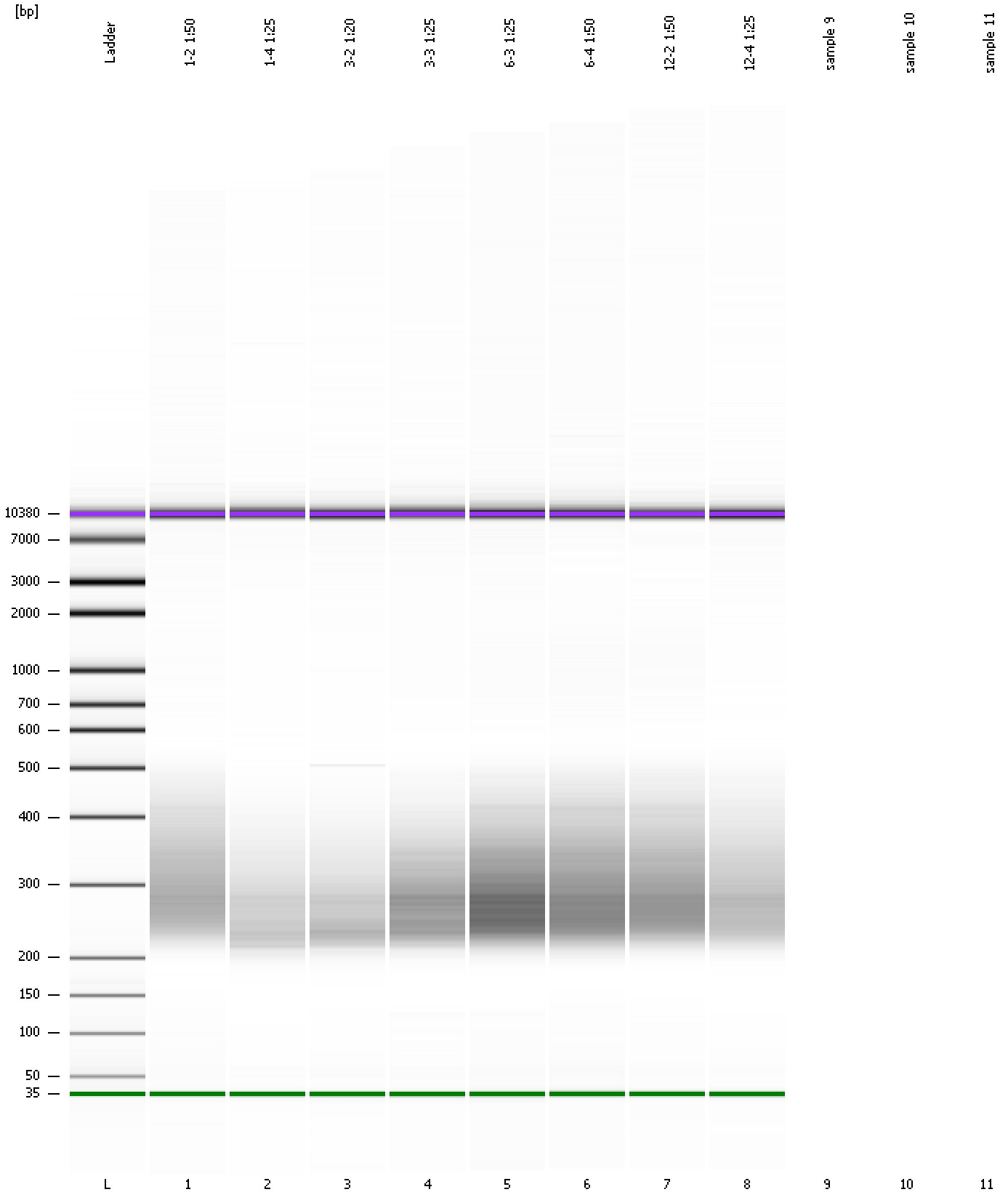
Region table for sample 8 : 12-4 1:25

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	304	519	203.5	2,547.8	97	20.2	487.80

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
Modified: 6/24/2015 4:02:47 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-24\2015-06-24_004.xad

Created: 6/24/2015 3:29:29 PM
Modified: 6/24/2015 4:02:47 PM

Invalid Samples

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.