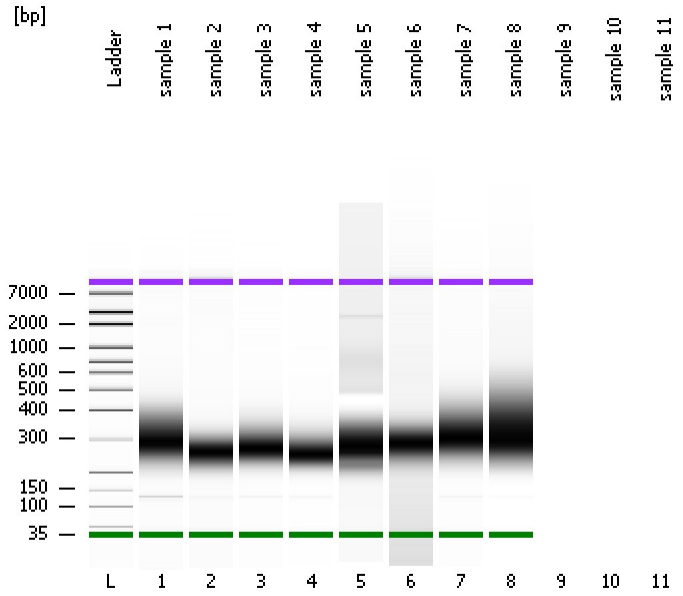
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

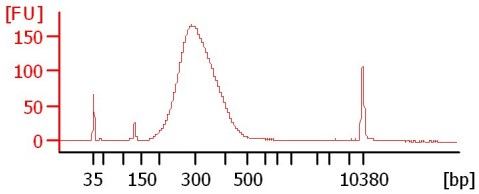
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy

Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

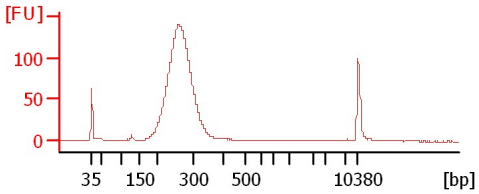
Chip Information:

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

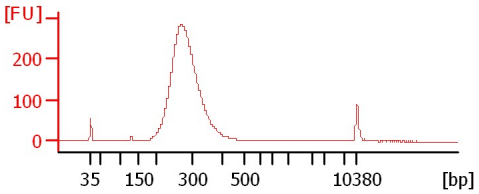
sample 1



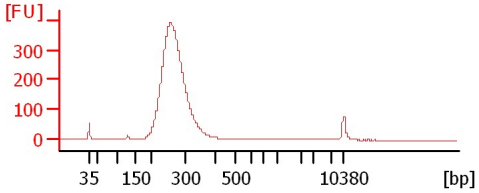
sample 2



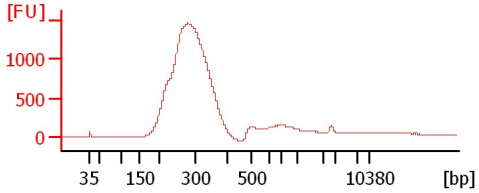
sample 3



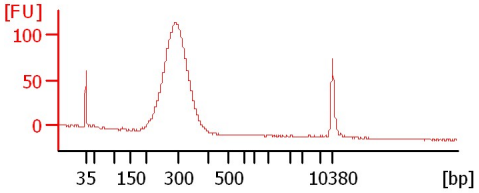
sample 4



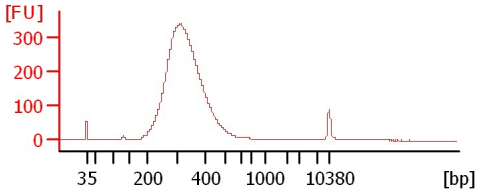
sample 5



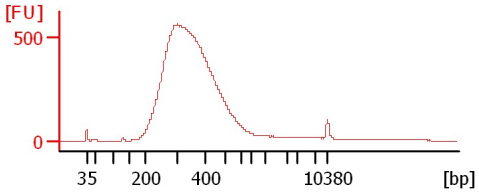
sample 6



sample 7



sample 8



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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		☐	✔			
sample 2		☐	✔			
sample 3		☐	✔			
sample 4		☐	✔			
sample 5		☐	✔			
sample 6		☐	✔			
sample 7		☐	✔			
sample 8		☐	✔			
sample 9		☐				
sample 10		☐				
sample 11		☐				
Ladder		☐	✔			

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

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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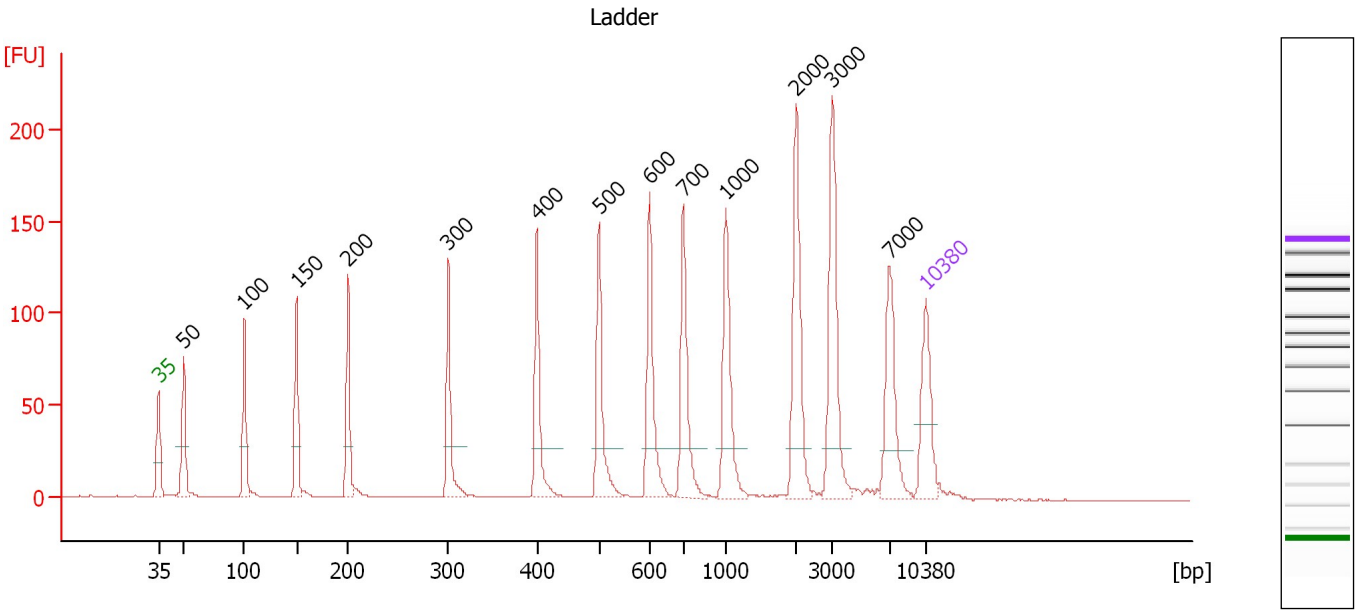
Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

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	45.29
3		100	150.00	2,272.7	Ladder Peak	50.83
4		150	150.00	1,515.2	Ladder Peak	55.60
5		200	150.00	1,136.4	Ladder Peak	60.32
6		300	150.00	757.6	Ladder Peak	69.46
7		400	150.00	568.2	Ladder Peak	77.54
8		500	150.00	454.5	Ladder Peak	83.18
9		600	150.00	378.8	Ladder Peak	87.80
10		700	150.00	324.7	Ladder Peak	90.87
11		1,000	150.00	227.3	Ladder Peak	94.76
12		2,000	150.00	113.6	Ladder Peak	101.18
13		3,000	150.00	75.8	Ladder Peak	104.49
14		7,000	150.00	32.5	Ladder Peak	109.69
15		10,380	75.00	10.9	Upper Marker	113.00

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Created: 7/9/2015 11:16:21 AM
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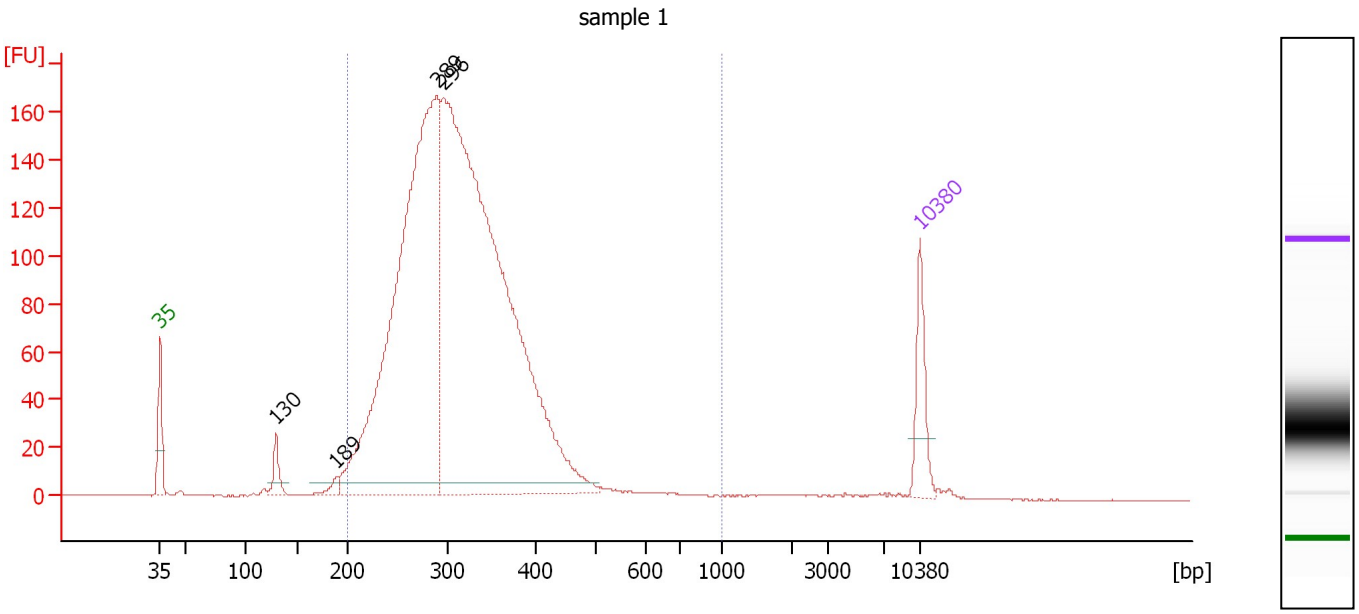
Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found:	4	Corr. Area 1:	2,778.4
Noise:	0.2		

Peak table for sample 1 : sample 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	130	49.75	581.3		53.66
3	189	19.27	154.6		59.26
4	289	1,586.70	8,306.7		68.49
5	296	2,215.26	11,324.1		69.13
6	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 1 : sample 1

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	316	1,000	2,778.4	18,815.5	96	21.0	3,753.44

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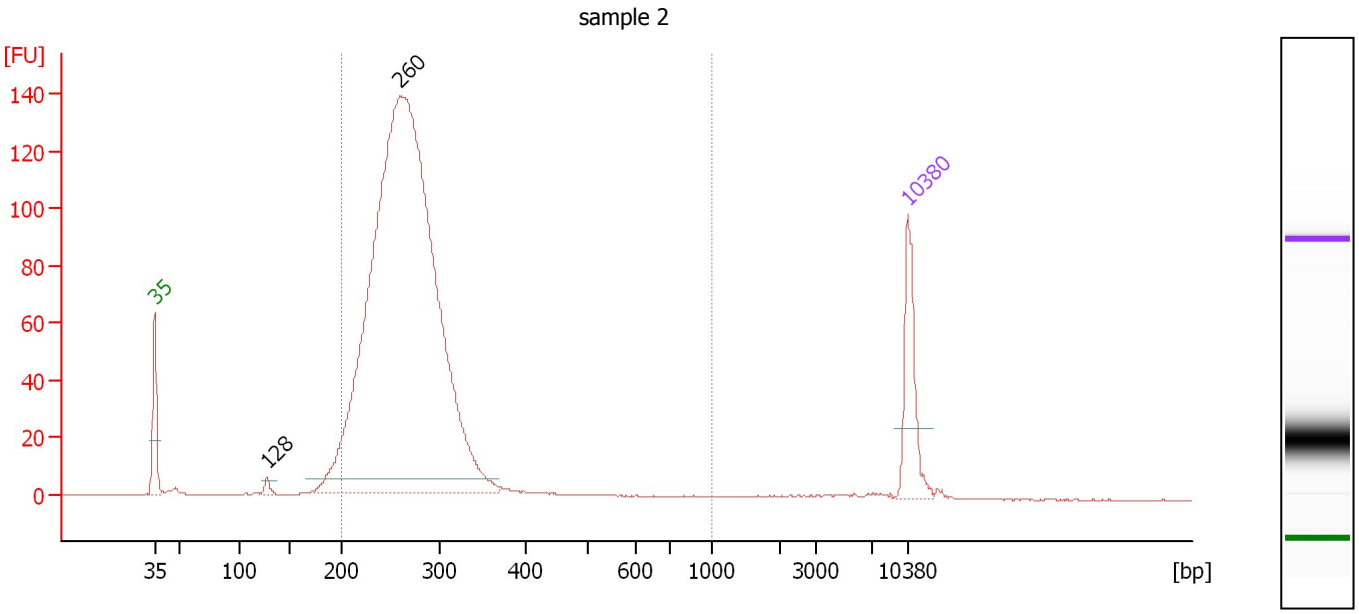
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found:	2	Corr. Area 1:	1,551.0
Noise:	0.1		

Peak table for sample 2 : sample 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	128	10.95	130.0		53.46
3	260	1,956.17	11,410.2		65.78
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 2 : sample 2

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]	Conc. [pg/µl]
200	271	1,000	1,551.0	11,188.3	95	18.9	1,957.85

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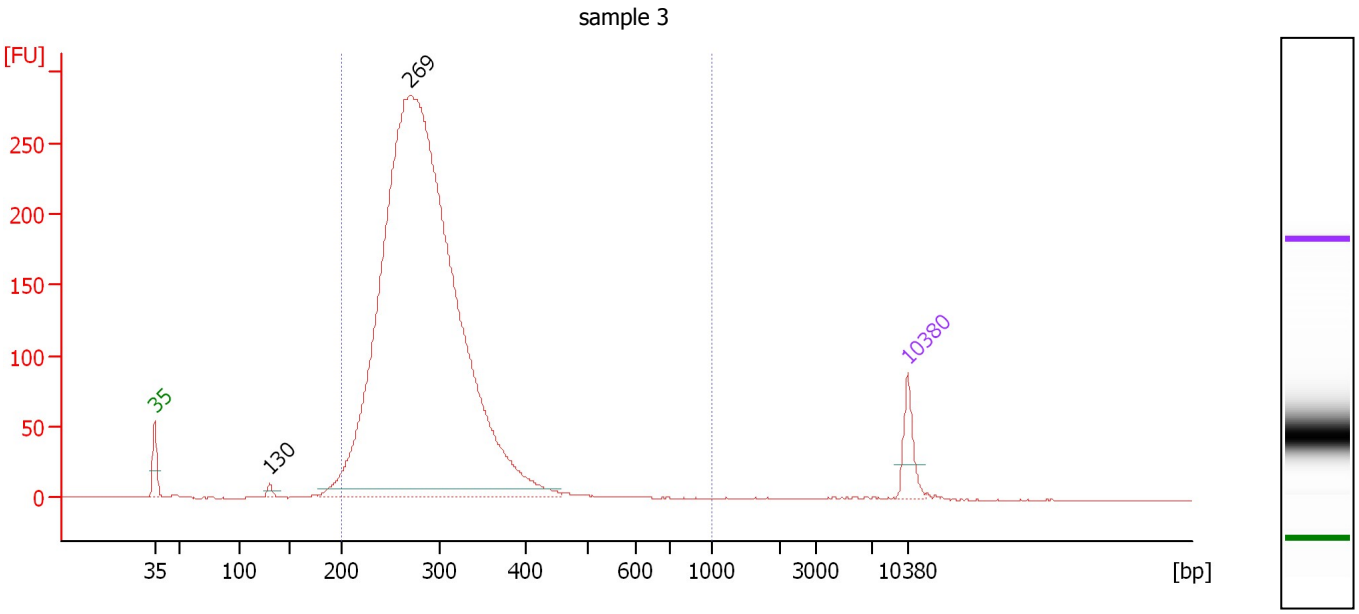
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found:	2	Corr. Area 1:	3,515.1
Noise:	0.2		

Peak table for sample 3 : sample 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	130	21.02	244.9		53.70
3	269	5,417.56	30,500.7		66.64
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 3 : sample 3

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]	Conc. [pg/µl]
200	288	1,000	3,515.1	28,681.5	98	18.2	5,308.97

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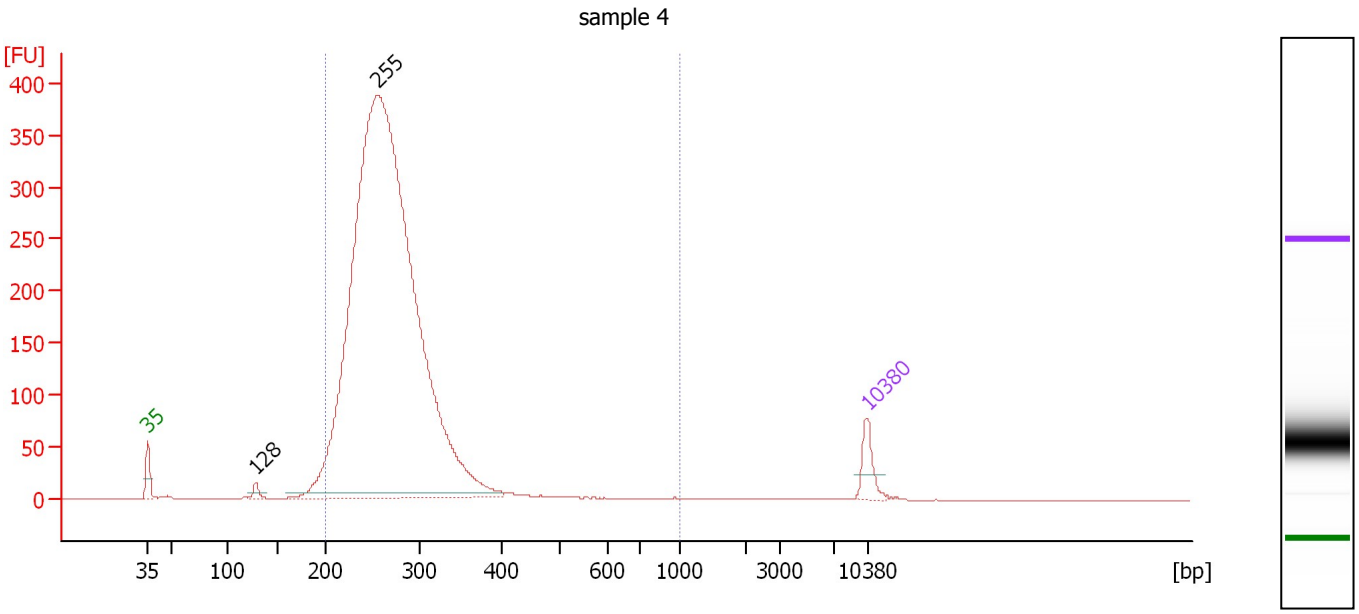
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found:	2	Corr. Area 1:	4,274.2
Noise:	0.1		

Peak table for sample 4 : sample 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	128	32.63	385.3		53.53
3	255	6,489.65	38,617.3		65.31
4	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 4 : sample 4

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]	Conc. [pg/µl]
200	271	1,000	4,274.2	36,283.0	97	19.0	6,345.49

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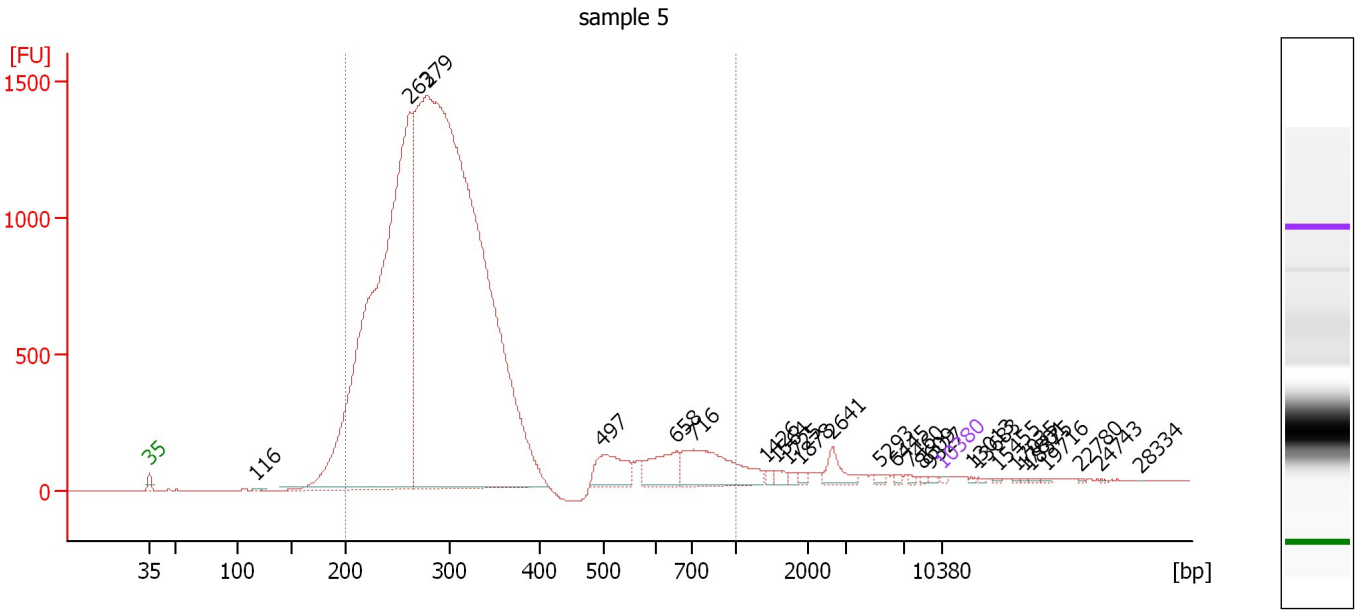
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found:	26	Corr. Area 1:	25,557.8
Noise:	0.2		

Peak table for sample 5 : sample 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	116	77.92	1,016.6		52.37
3	263	59,997.80	346,035.5		66.05
4	279	105,563.40	574,124.3		67.50
5	497	2,634.63	8,031.3		83.01
6	658	2,384.04	5,491.4		89.57
7	716	4,665.46	9,874.7		91.07
8	1,426	171.98	182.8		97.49
9	1,564	281.85	273.0		98.38
10	1,725	183.80	161.5		99.41
11	1,878	179.54	144.8		100.40
12	2,641	896.43	514.2		103.30
13	5,293	135.61	38.8		107.47
14	6,445	105.43	24.8		108.97
15	7,460	75.78	15.4		110.14
16	8,609	69.18	12.2		111.27
17	9,327	97.22	15.8		111.97
18	10,380	75.00	10.9	Upper Marker	113.00
19	13,013	0.00	0.0		115.58
20	13,683	0.00	0.0		116.23
21	15,455	0.00	0.0		117.97
22	17,035	0.00	0.0		119.51
23	17,801	0.00	0.0		120.26
24	18,375	0.00	0.0		120.82
25	19,716	0.00	0.0		122.14

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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

Electropherogram Summary Continued ...

... Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
26	22,780	0.00	0.0		125.14
27	24,743	0.00	0.0		127.06
28	28,334	0.00	0.0		130.57

Region table for sample 5 : sample 5

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Color	Co % of Total	Size distribution in CV [%]	Conc. [pg/µl]
200	318	1,000	25,557.8	867,769.8		94	37.5	164,953.83

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Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
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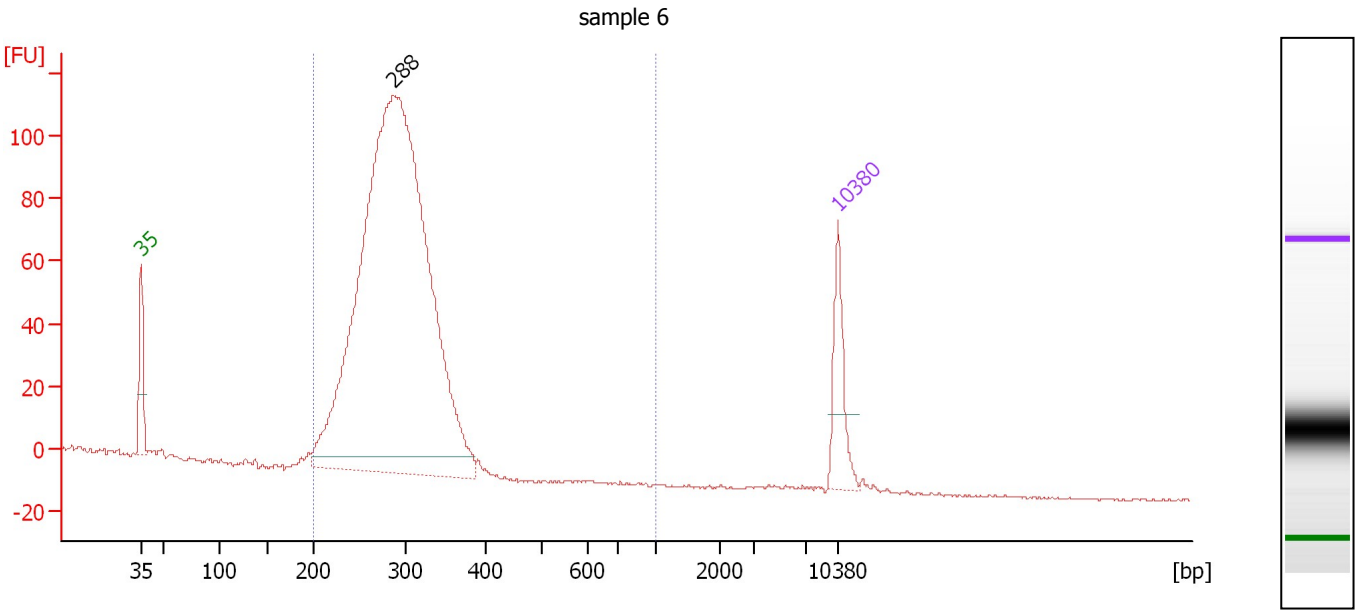
Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found:	1	Corr. Area 1:	1,338.6
Noise:	0.5		

Peak table for sample 6 : sample 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	288	2,001.12	10,540.8		68.33
3	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 6 : sample 6

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Color % of Total	Size distribution in CV [%]	Conc. [pg/µl]
200	290	1,000	1,338.6	9,970.1	100	11.9	1,880.21

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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
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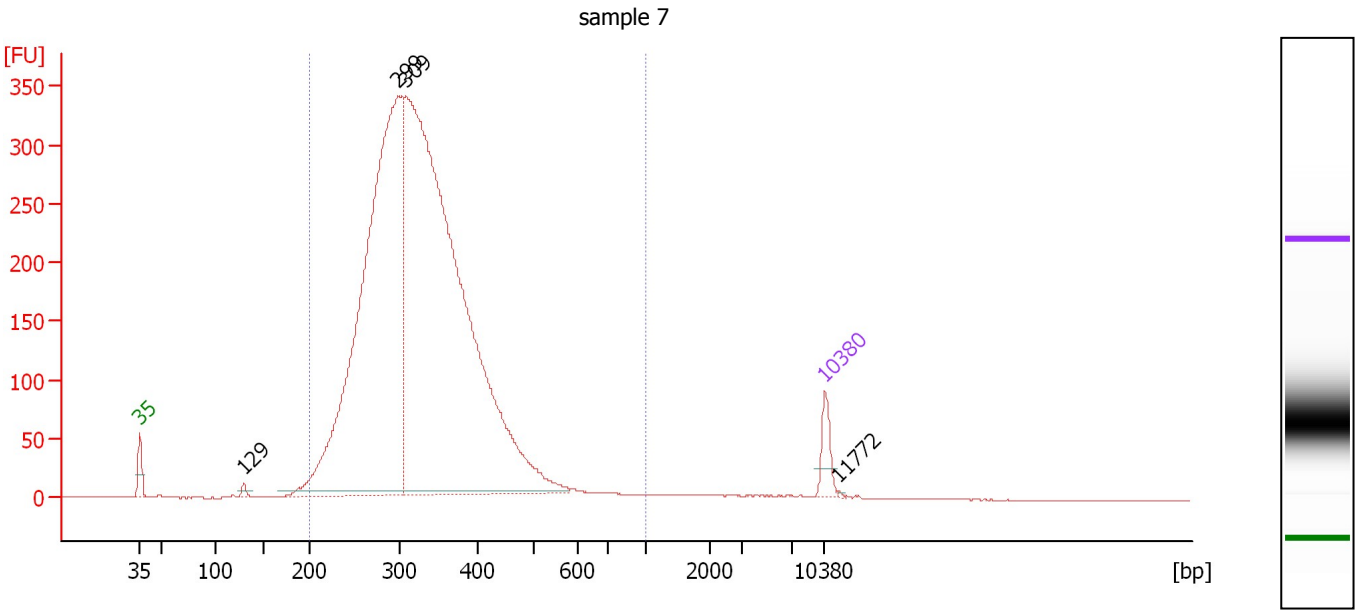
Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found:	4	Corr. Area 1:	5,618.1
Noise:	0.3		

Peak table for sample 7 : sample 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	129	24.08	282.3		53.62
3	299	3,465.71	17,565.7		69.37
4	309	4,863.63	23,854.7		70.18
5	10,380	75.00	10.9	Upper Marker	113.00
6	11,772	0.00	0.0		114.36

Region table for sample 7 : sample 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	332	1,000	5,618.1	39,666.9	98	22.4	8,242.78

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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
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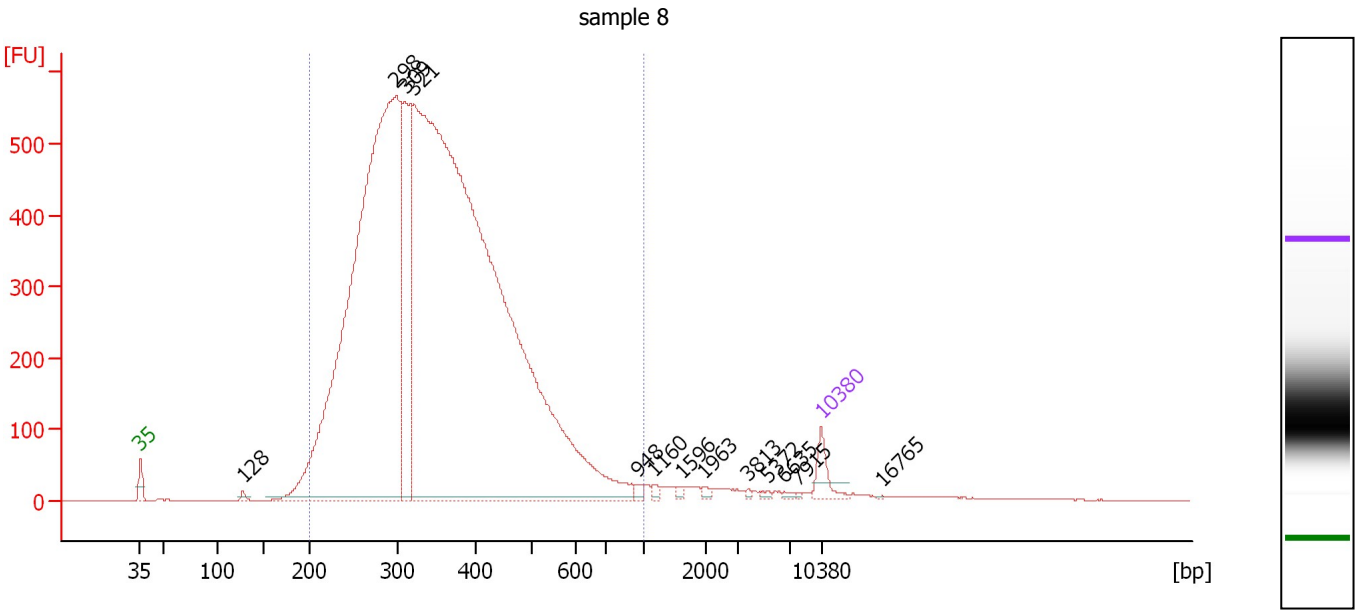
Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found:	13	Corr. Area 1:	12,985.6
Noise:	0.2		

Peak table for sample 8 : sample 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	128	17.73	209.4		53.52
3	298	5,116.43	26,036.0		69.26
4	309	826.41	4,052.4		70.19
5	321	8,290.81	39,190.8		71.12
6	948	17.78	28.4		94.09
7	1,160	13.96	18.2		95.79
8	1,596	11.22	10.7		98.58
9	1,963	12.76	9.8		100.94
10	3,813	7.15	2.8		105.55
11	5,372	9.74	2.7		107.57
12	6,635	8.62	2.0		109.22
13	7,915	4.37	0.8		110.59
14	10,380	75.00	10.9	Upper Marker	113.00
15	16,765	0.00	0.0		119.25

Region table for sample 8 : sample 8

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/µl]
200	359	1,000	12,985.6	62,036.1	96	28.7	13,417.41

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Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

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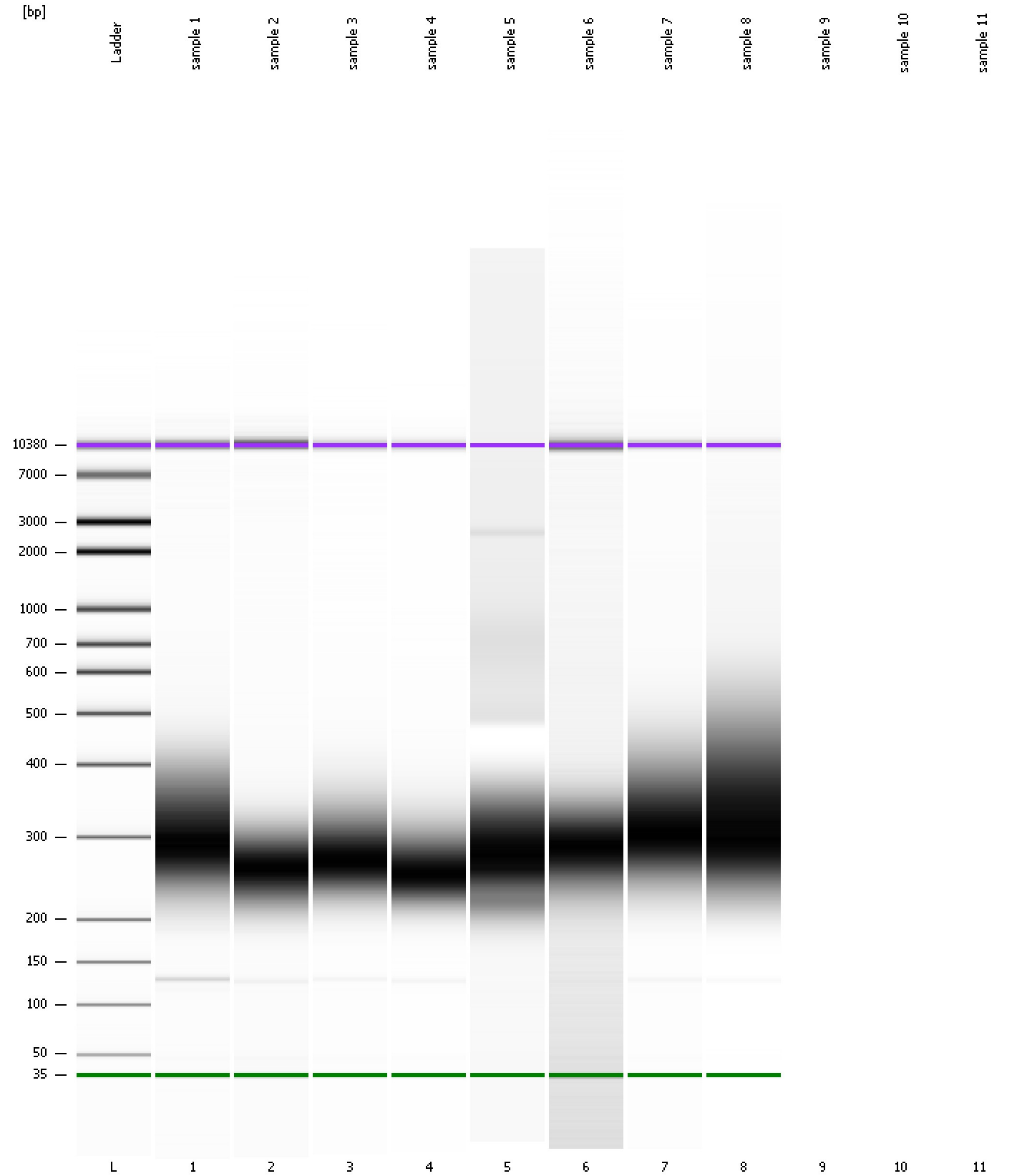
Modified: 7/9/2015 11:49:07 AM

Gel Image



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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-07-09\2015-07-09_001.xad

Created: 7/9/2015 11:16:21 AM
Modified: 7/9/2015 11:49:07 AM

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.

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