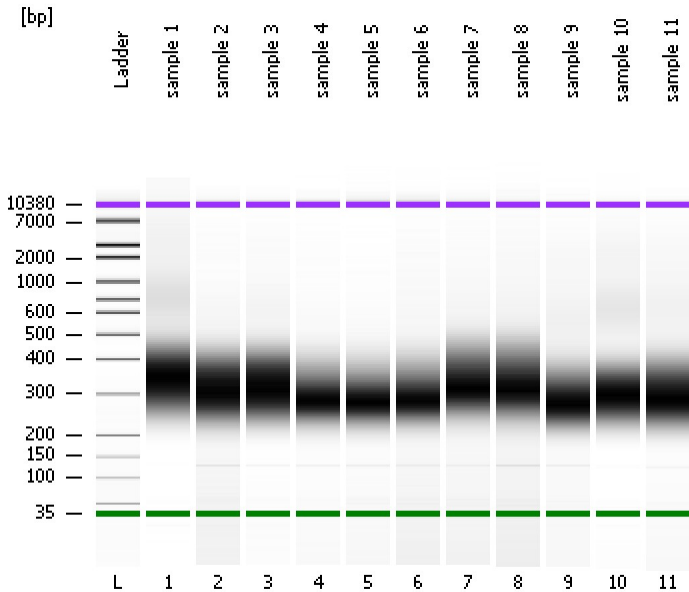


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
Modified: 6/6/2017 1:17:53 PM

Electrophoresis File Run Summary



Instrument Information:

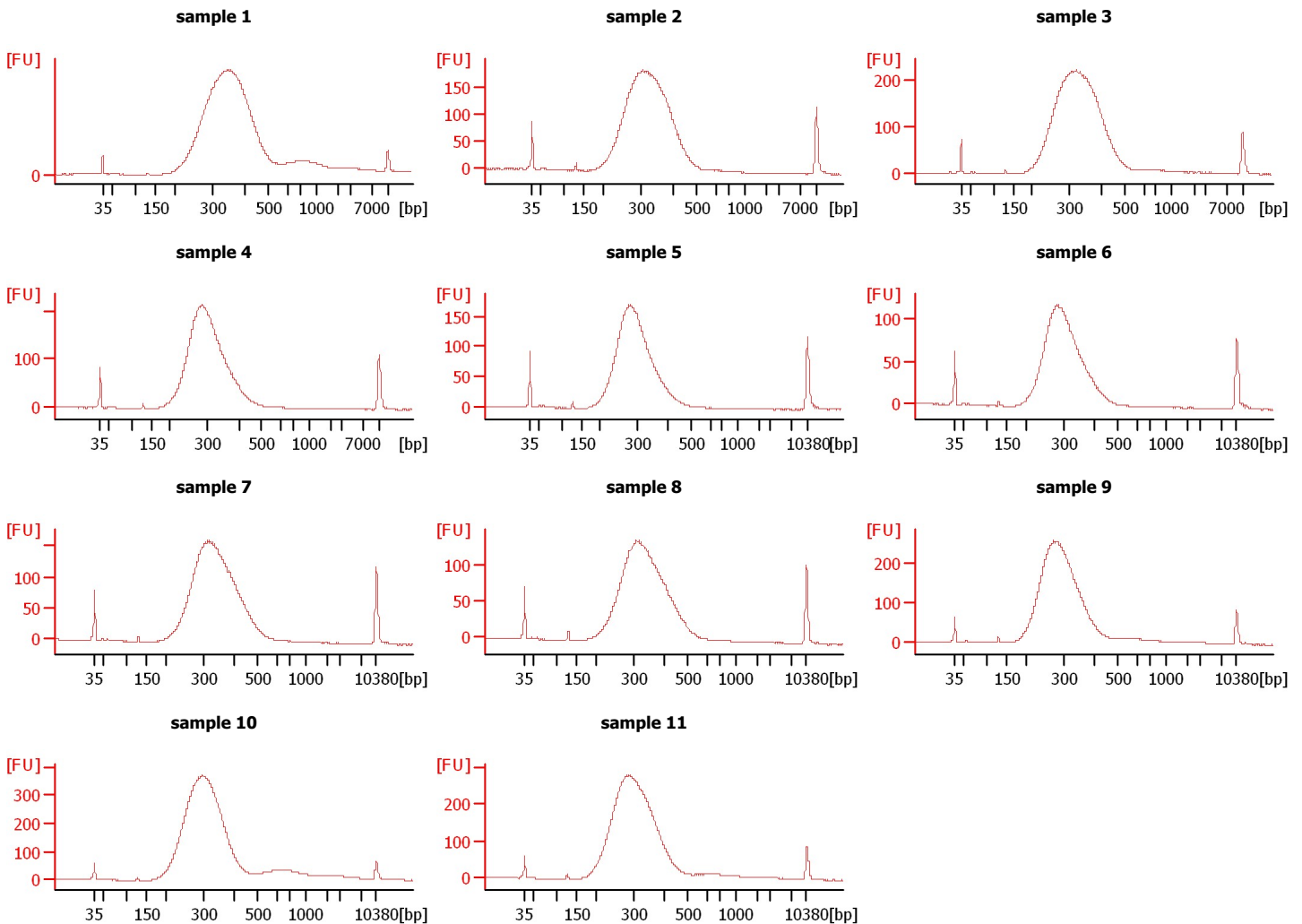
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
Modified: 6/6/2017 1:17:53 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 1		<input type="checkbox"/>	✓			
sample 2		<input type="checkbox"/>	✓			
sample 3		<input type="checkbox"/>	✓			
sample 4		<input type="checkbox"/>	✓			
sample 5		<input type="checkbox"/>	✓			
sample 6		<input type="checkbox"/>	✓			
sample 7		<input type="checkbox"/>	✓			
sample 8		<input type="checkbox"/>	✓			
sample 9		<input type="checkbox"/>	✓			
sample 10		<input type="checkbox"/>	✓			
sample 11		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

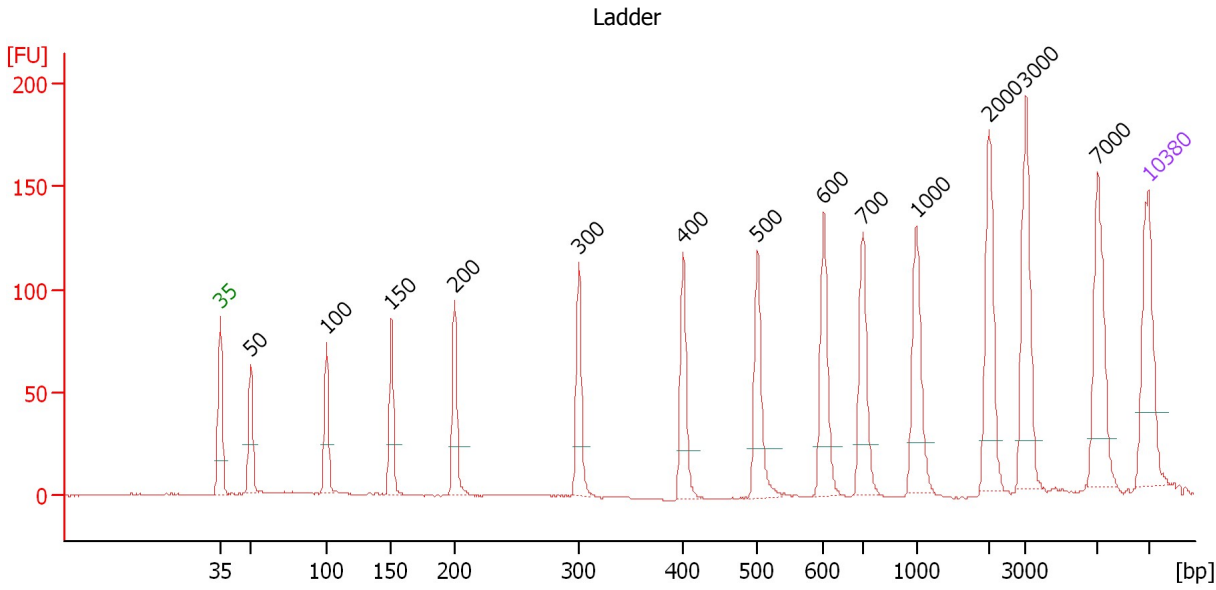
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

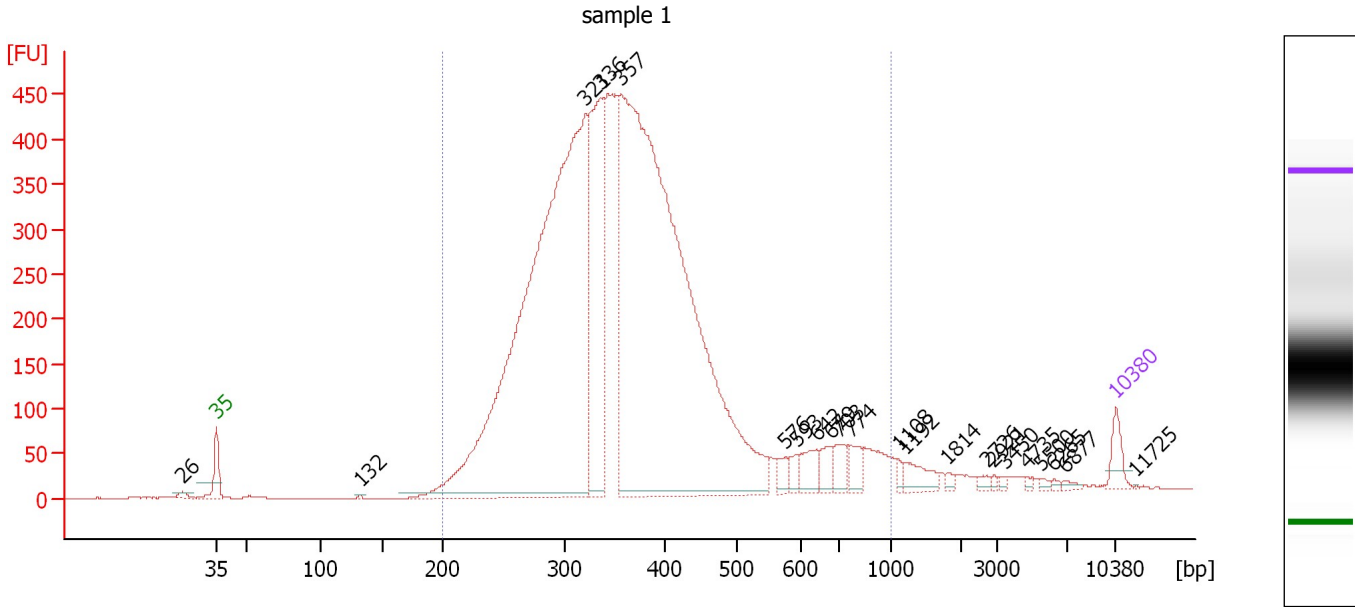
Peak table for Ladder

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	51.04
4	150	150.00	1,515.2	Ladder Peak	55.90
5	200	150.00	1,136.4	Ladder Peak	60.68
6	300	150.00	757.6	Ladder Peak	70.04
7	400	150.00	568.2	Ladder Peak	77.88
8	500	150.00	454.5	Ladder Peak	83.51
9	600	150.00	378.8	Ladder Peak	88.49
10	700	150.00	324.7	Ladder Peak	91.42
11	1,000	150.00	227.3	Ladder Peak	95.48
12	2,000	150.00	113.6	Ladder Peak	100.94
13	3,000	150.00	75.8	Ladder Peak	103.72
14	7,000	150.00	32.5	Ladder Peak	109.14
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : sample 1

Number of peaks found: 22 Corr. Area 1: 9,095.0
 Noise: 0.3

Peak table for sample 1 : sample 1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	26	0.00	0.0		40.39
2	35	125.00	5,411.3	Lower Marker	43.00
3	132	7.68	88.1		54.16
4	321	5,418.64	25,551.5		71.71
5	336	1,290.44	5,816.6		72.88
6	357	5,815.42	24,695.7		74.49
7	576	54.10	142.2		87.32
8	593	52.33	133.7		88.15
9	642	124.99	295.0		89.72
10	679	83.89	187.2		90.80
11	703	91.17	196.4		91.46
12	774	84.95	166.3		92.42
13	1,108	25.14	34.4		96.07
14	1,192	97.43	123.9		96.53
15	1,814	16.88	14.1		99.93
16	2,726	19.13	10.6		102.96
17	2,921	9.83	5.1		103.50
18	3,450	12.31	5.4		104.33
19	4,735	9.67	3.1		106.07
20	5,500	12.46	3.4		107.11
21	6,265	9.11	2.2		108.15
22	6,877	14.96	3.3		108.98
23	10,380	75.00	10.9	Upper Marker	113.00
24	11,725	0.00	0.0		114.54

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...

... Region table for sample 1 :

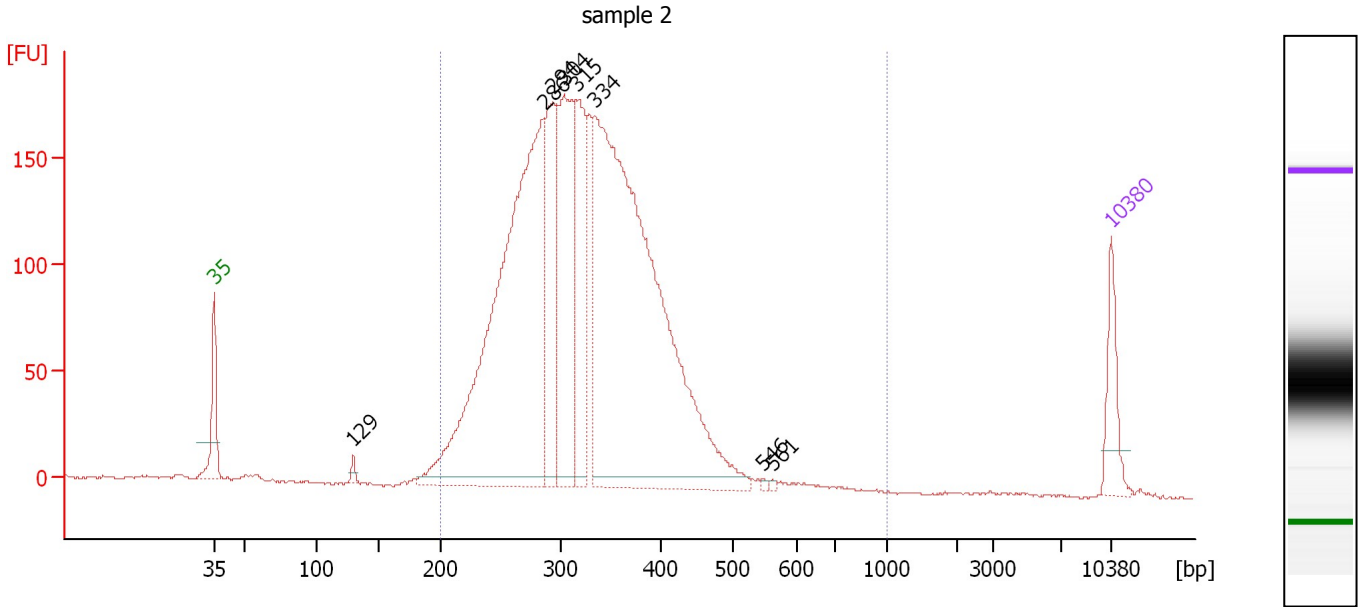
sample 1

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	375	9,095.0	62,956.6	14,174.42	96	31.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 8 Corr. Area 1: 3,607.7
 Noise: 0.5

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	129	14.66	172.1		53.86
3	286	1,476.70	7,827.1		68.72
4	294	354.13	1,825.9		69.47
5	304	484.24	2,415.0		70.34
6	315	309.66	1,487.1		71.26
7	334	1,806.10	8,204.1		72.67
8	546	4.37	12.1		85.78
9	561	4.09	11.1		86.53
10	10,380	75.00	10.9	Upper Marker	113.00

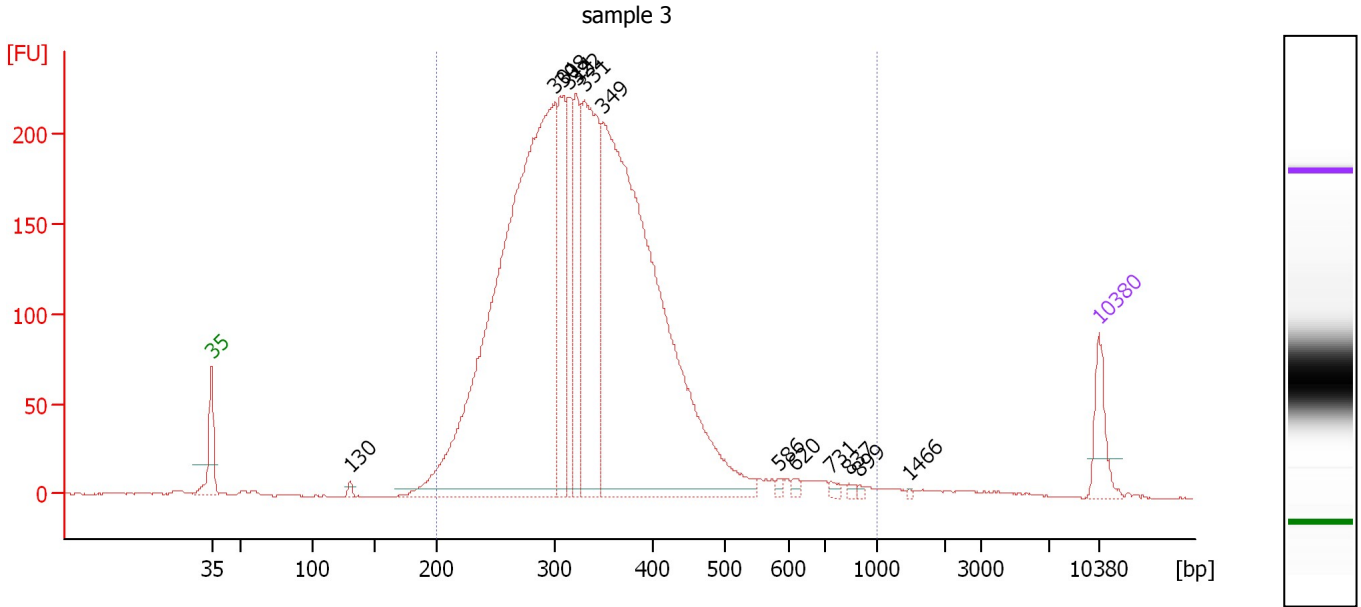
Region table for sample 2 : sample 2

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	327	3,607.7	22,000.0	4,514.81	98	21.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

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 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 13 Corr. Area 1: 4,545.1
 Noise: 0.3

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	12.88	150.4		53.94
3	301	2,592.89	13,068.9		70.09
4	308	347.54	1,709.0		70.68
5	314	262.57	1,266.8		71.14
6	322	276.60	1,301.2		71.77
7	331	676.32	3,098.9		72.45
8	349	2,235.34	9,691.7		73.92
9	586	8.00	20.7		87.80
10	620	10.32	25.2		89.06
11	731	10.78	22.3		91.84
12	837	7.56	13.7		93.27
13	899	4.68	7.9		94.11
14	1,466	2.81	2.9		98.02
15	10,380	75.00	10.9	Upper Marker	113.00

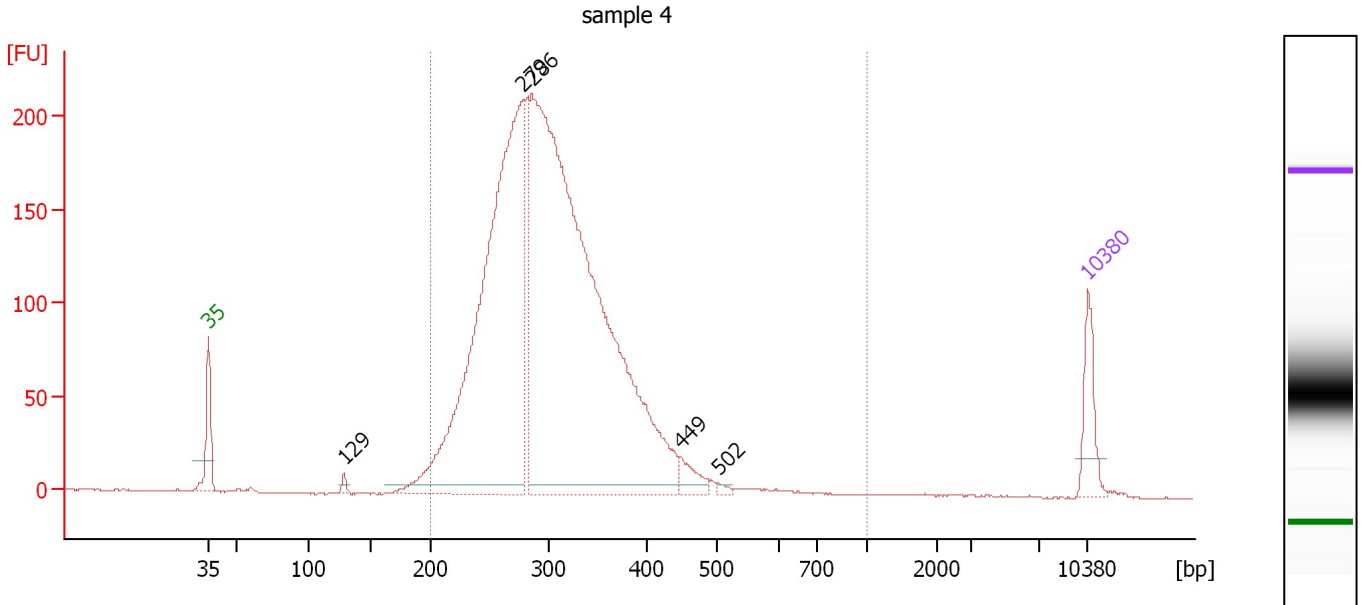
Region table for sample 3 : sample 3

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	339	4,545.1	31,027.4	6,497.07	98	25.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

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 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 5 Corr. Area 1: 3,359.9
 Noise: 0.4

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	129	14.11	166.2		53.82
3	279	1,668.80	9,073.8		68.05
4	286	2,554.47	13,515.6		68.77
5	449	45.71	154.4		80.61
6	502	8.40	25.4		83.58
7	10,380	75.00	10.9	Upper Marker	113.00

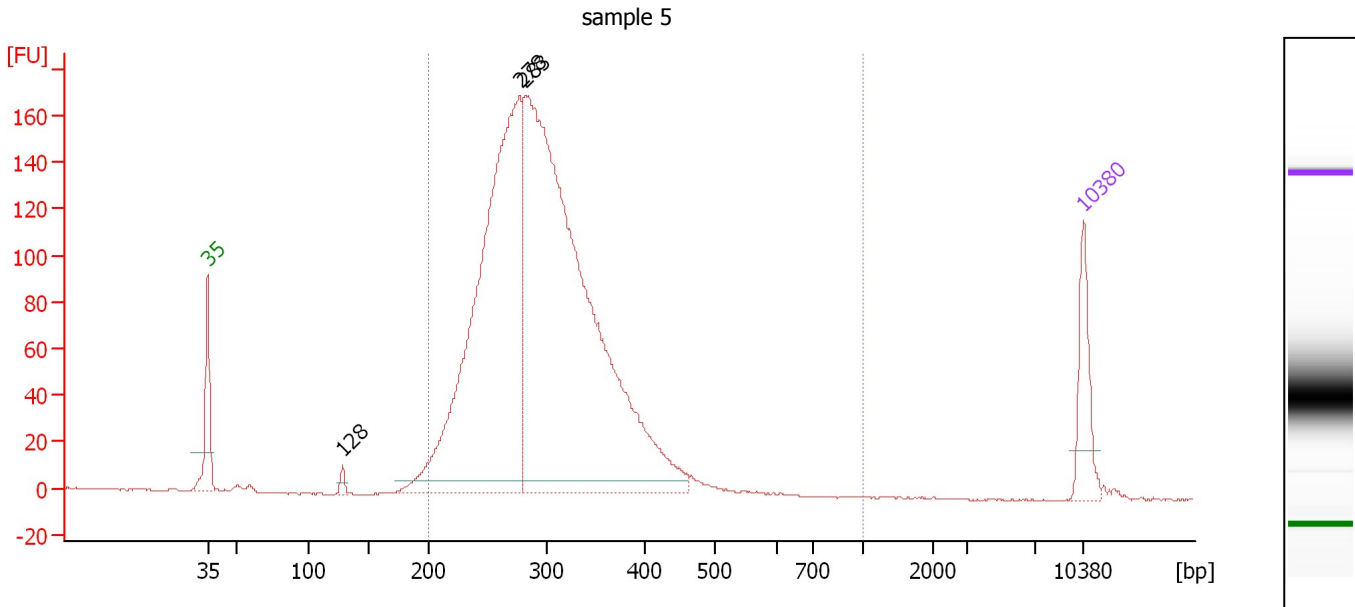
Region table for sample 4 : sample 4

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	307	3,359.9	21,741.7	4,235.63	99	19.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

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 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 3 Corr. Area 1: 2,594.8
 Noise: 0.3

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	128	14.07	166.2		53.79
3	278	1,270.26	6,931.0		67.95
4	283	1,814.38	9,724.4		68.42
5	10,380	75.00	10.9	Upper Marker	113.00

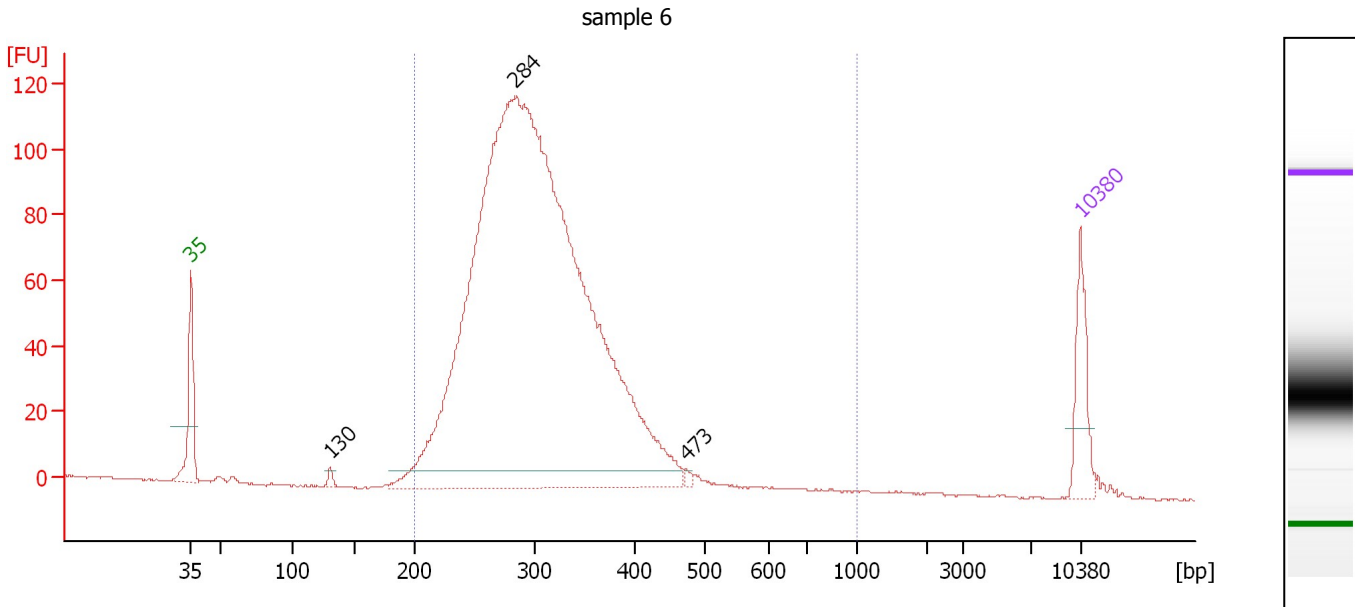
Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	301	2,594.8	15,618.9	2,991.40	98	17.9

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

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 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 3 Corr. Area 1: 1,865.0
 Noise: 0.3

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	130	10.14	117.9		53.98
3	284	3,226.26	17,233.5		68.51
4	473	6.45	20.7		81.97
5	10,380	75.00	10.9	Upper Marker	113.00

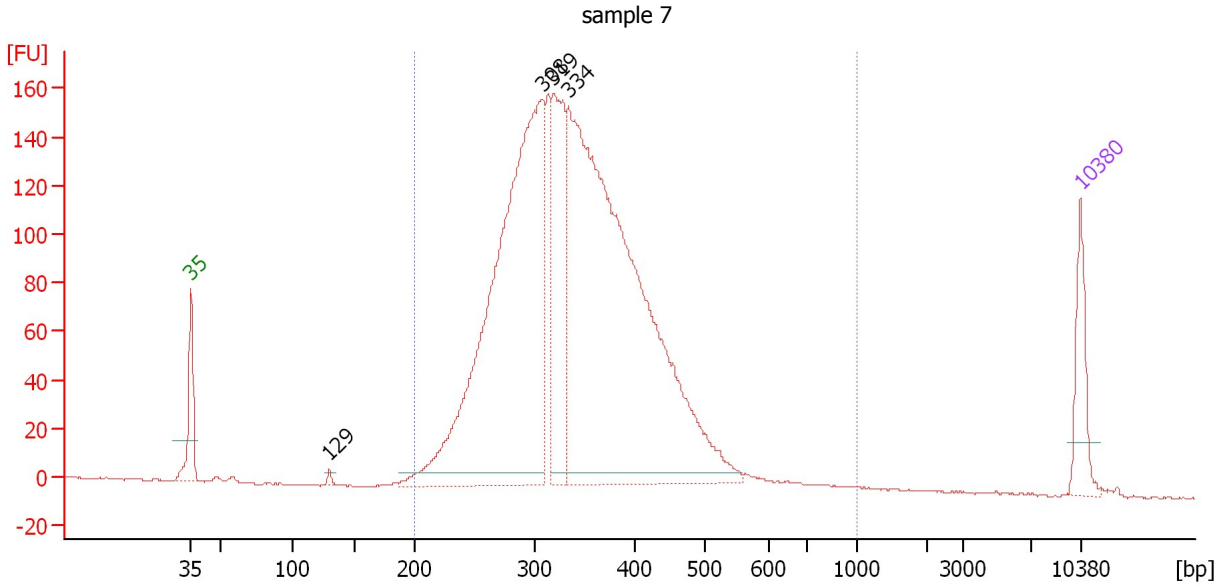
Region table for sample 6 : sample 6

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	309	1,865.0	15,937.5	3,116.88	98	20.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 4 Corr. Area 1: 2,946.6
 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	7.51	88.0		53.89
3	308	1,358.19	6,690.3		70.64
4	319	354.77	1,687.3		71.50
5	334	1,705.13	7,736.0		72.70
6	10,380	75.00	10.9	Upper Marker	113.00

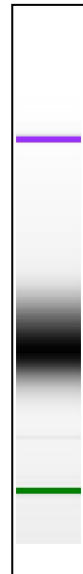
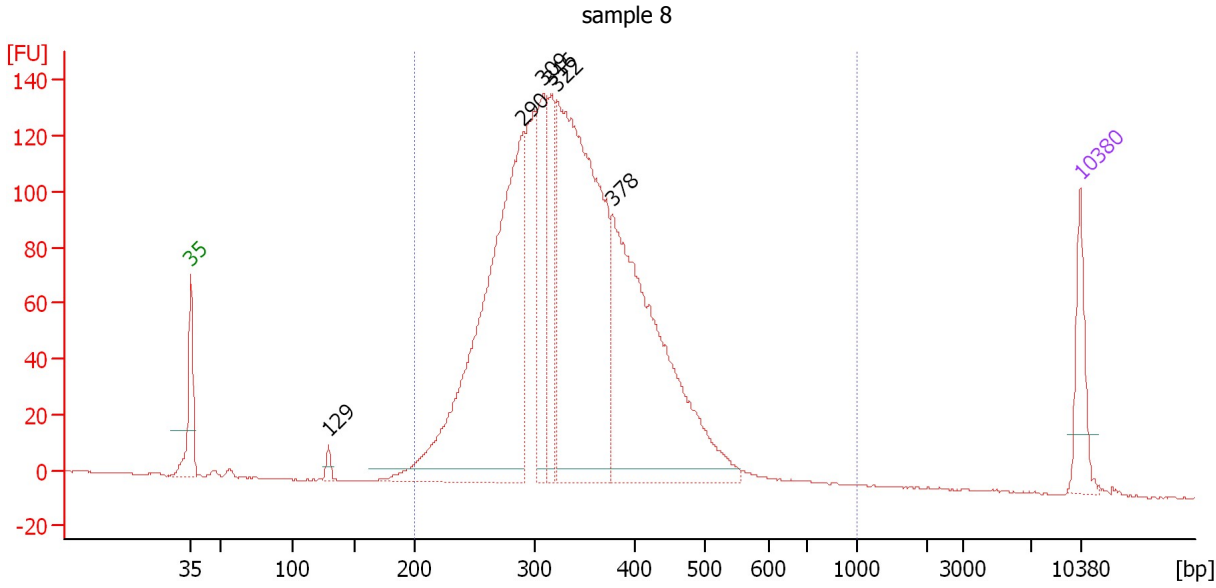
Region table for sample 7 : sample 7

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	346	2,946.6	16,346.5	3,528.85	99	22.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : sample 8

Number of peaks found: 6 Corr. Area 1: 2,580.1
 Noise: 0.3

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	129	17.58	207.1		53.82
3	290	1,056.87	5,525.8		69.09
4	309	254.63	1,249.4		70.73
5	316	189.25	907.5		71.29
6	322	1,060.42	4,989.2		71.77
7	378	806.06	3,232.7		76.14
8	10,380	75.00	10.9	Upper Marker	113.00

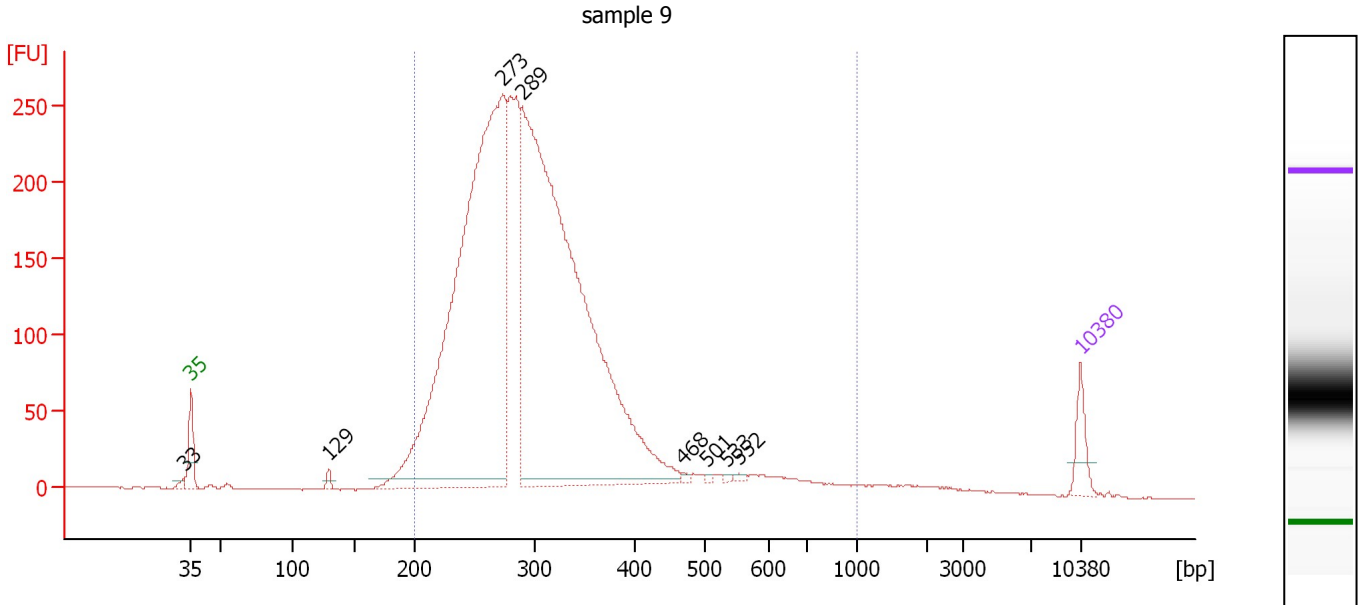
Region table for sample 8 : sample 8

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	343	2,580.1	17,092.7	3,650.11	98	23.0

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : sample 9

Number of peaks found: 8 Corr. Area 1: 4,364.7
 Noise: 0.4

Peak table for sample 9 : sample 9

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.47
2	35	125.00	5,411.3	Lower Marker	43.00
3	129	23.14	272.3		53.83
4	273	3,432.95	19,018.8		67.56
5	289	3,792.37	19,853.8		69.05
6	468	10.46	33.8		81.73
7	501	6.25	18.9		83.57
8	533	6.64	18.9		85.15
9	552	9.86	27.1		86.11
10	10,380	75.00	10.9	Upper Marker	113.00

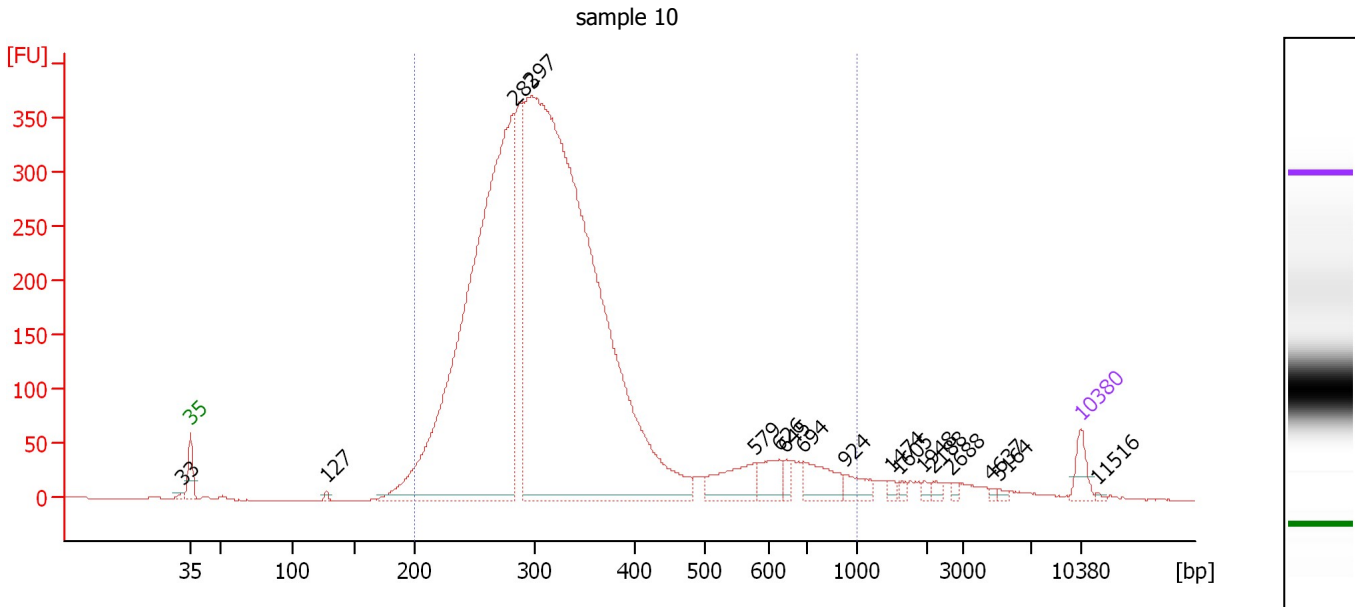
Region table for sample 9 : sample 9

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	310	4,364.7	43,067.9	8,256.18	97	28.7

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : sample 10

Number of peaks found: 17 Corr. Area 1: 6,444.7
 Noise: 0.3

Peak table for sample 10 : sample 10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.37
2	35	125.00	5,411.3	Lower Marker	43.00
3	127	18.75	223.3		53.68
4	283	4,807.07	25,753.7		68.43
5	297	7,437.35	37,924.7		69.78
6	579	232.71	609.2		87.43
7	626	138.42	334.8		89.26
8	645	41.92	98.5		89.80
9	694	189.87	414.8		91.23
10	924	82.00	134.5		94.45
11	1,474	17.92	18.4		98.07
12	1,605	14.88	14.1		98.79
13	1,948	16.09	12.5		100.66
14	2,188	21.95	15.2		101.47
15	2,688	14.55	8.2		102.85
16	4,637	9.23	3.0		105.94
17	5,164	10.60	3.1		106.65
18	10,380	75.00	10.9	Upper Marker	113.00
19	11,516	0.00	0.0		114.30

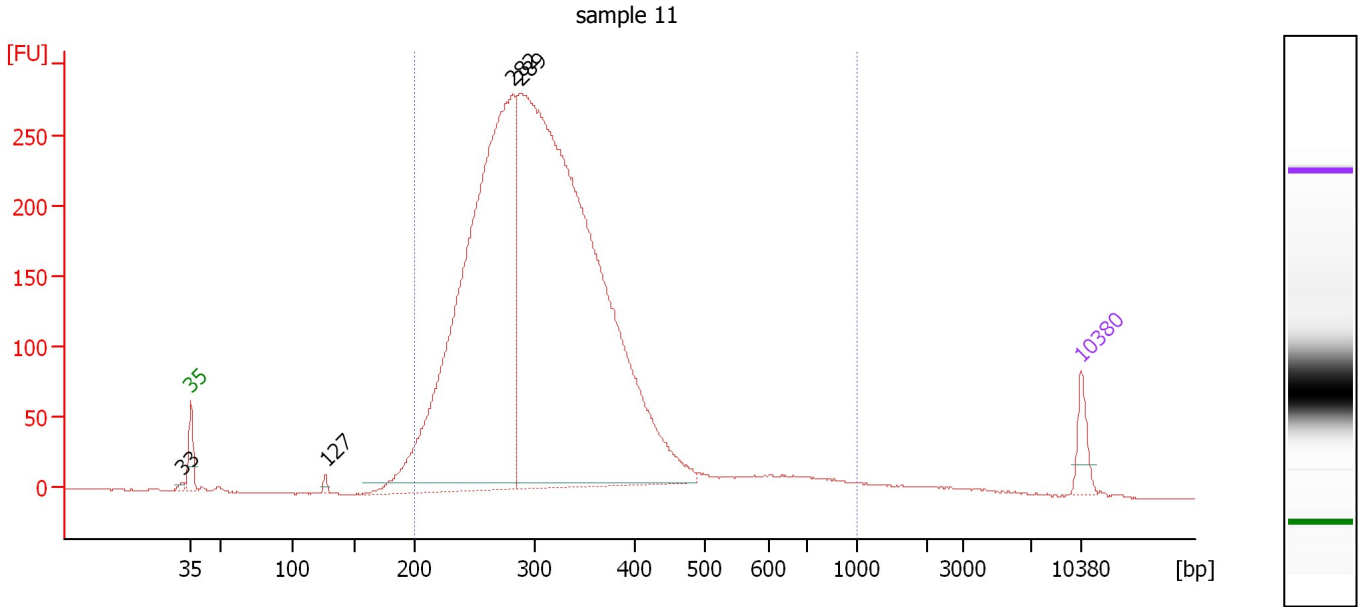
Region table for sample 10 : sample 10

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	336	6,444.7	64,706.5	13,064.08	96	34.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

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 Modified: 6/6/2017 1:17:53 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : sample 11

Number of peaks found: 4 Corr. Area 1: 5,116.3
 Noise: 0.3

Peak table for sample 11 : sample 11

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	33	0.00	0.0		42.36
2	35	125.00	5,411.3	Lower Marker	43.00
3	127	21.43	256.6		53.62
4	282	3,738.16	20,083.6		68.36
5	289	5,414.66	28,407.5		68.99
6	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : sample 11

From [bp]	To [bp]	Average Size [bp]	Corr. Area	Molarity [pmol/l]	Co Conc. lor [pg/μl]	% of Total	Size distribution in CV [%]
200	1,000	322	5,116.3	46,373.8	9,185.78	97	29.0

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-06-06\2017-06-06_002.xad

Created: 6/6/2017 12:22:19 PM
Modified: 6/6/2017 1:17:53 PM

Gel Image

