

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...analyzer\2100 expert\data\2018-05-31\2018-05-31\_Booster.xad

Created: 5/31/2018 11:32:50 AM  
Modified: 6/4/2018 2:10:30 PM

**Electrophoresis File Run Summary**

Instrument Information:

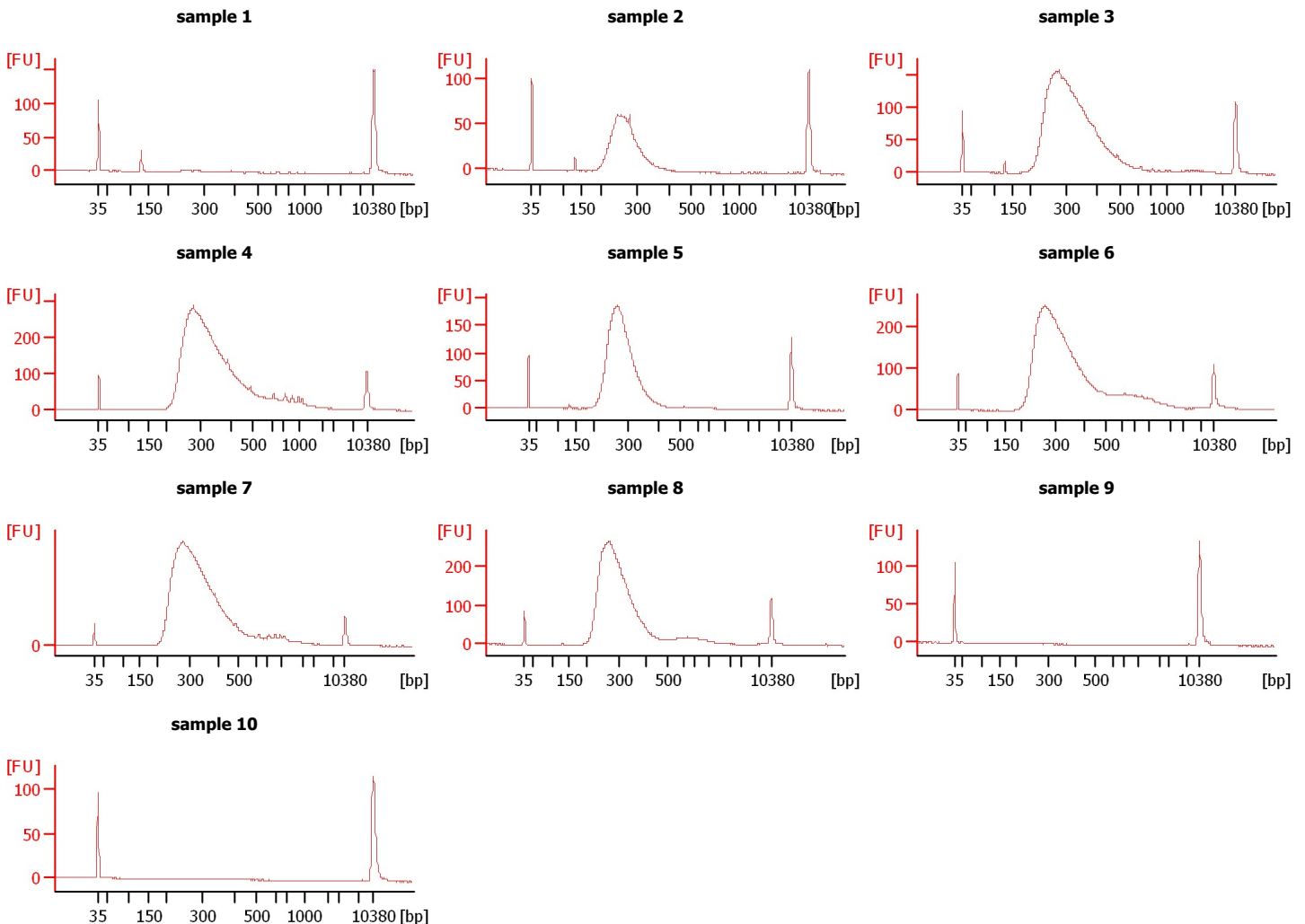
Instrument Name: DE34903152                      Firmware: C.01.069  
Serial#: DE34903152                                Type: G2938C

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:



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**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 :**

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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

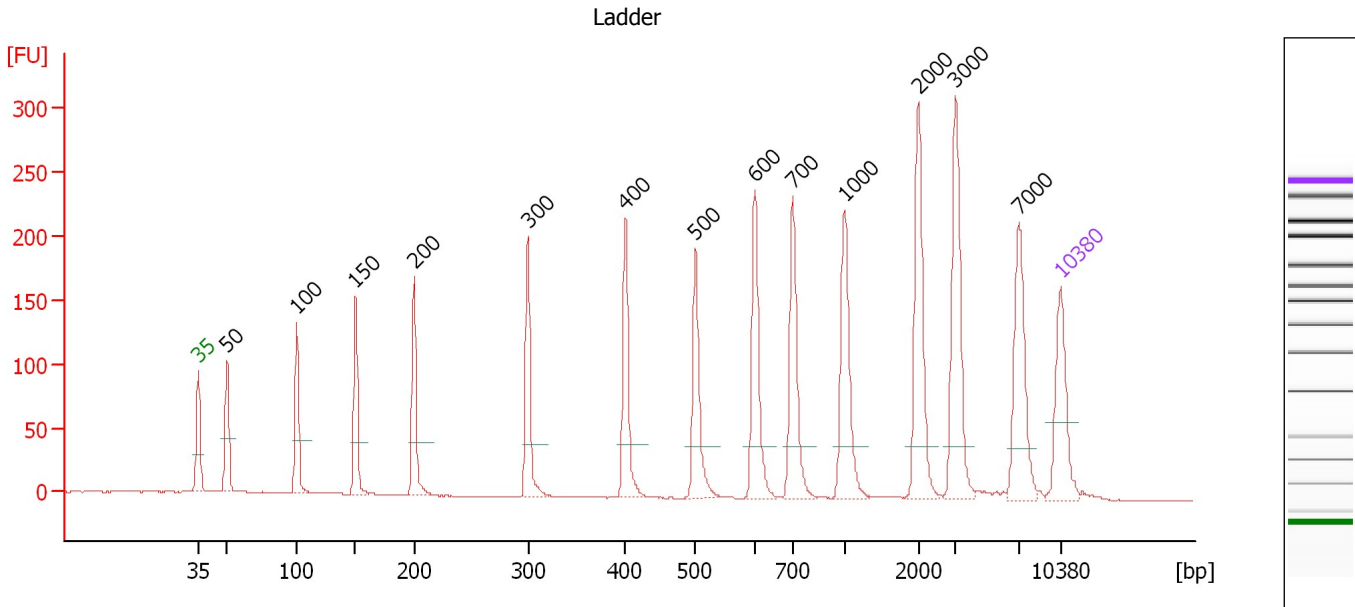
**Ladder**

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: 0.4

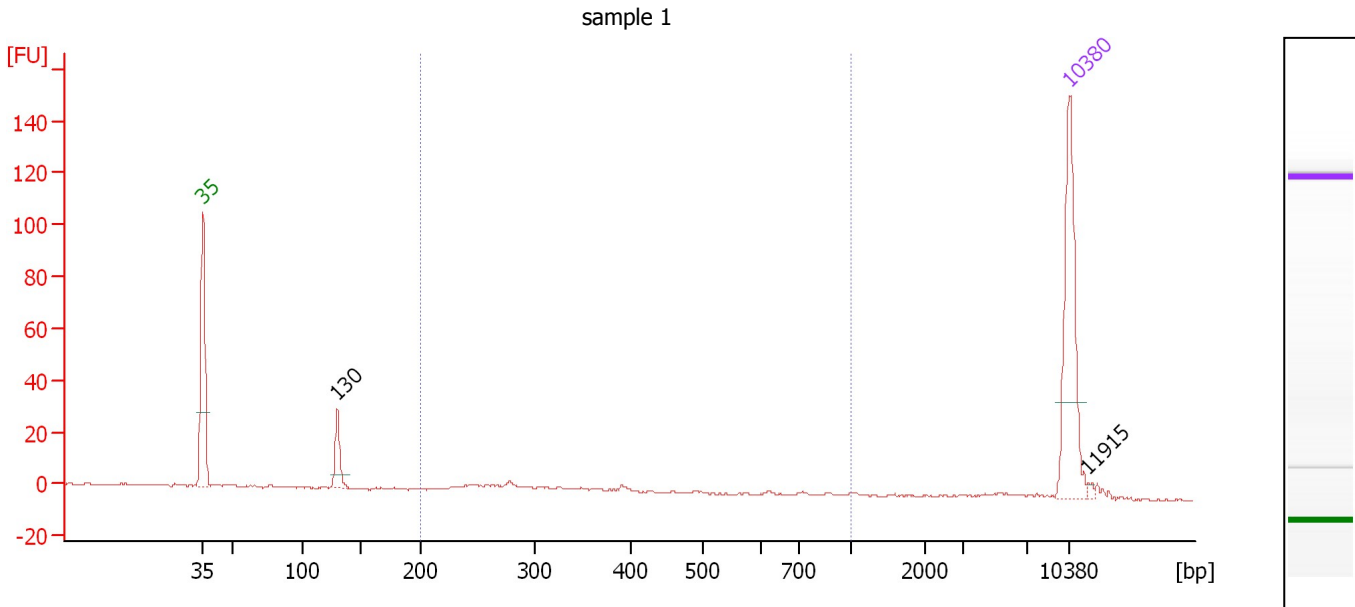
**Peak table for Ladder**

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	45.34
3	100	150.00	2,272.7	Ladder Peak	51.00
4	150	150.00	1,515.2	Ladder Peak	55.76
5	200	150.00	1,136.4	Ladder Peak	60.52
6	300	150.00	757.6	Ladder Peak	69.74
7	400	150.00	568.2	Ladder Peak	77.65
8	500	150.00	454.5	Ladder Peak	83.36
9	600	150.00	378.8	Ladder Peak	88.17
10	700	150.00	324.7	Ladder Peak	91.24
11	1,000	150.00	227.3	Ladder Peak	95.44
12	2,000	150.00	113.6	Ladder Peak	101.41
13	3,000	150.00	75.8	Ladder Peak	104.43
14	7,000	150.00	32.5	Ladder Peak	109.58
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 1**

Number of peaks found: 2                      Corr. Area 1: 43.9  
 Noise: 0.4

**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	28.91	336.9		53.86
3	10,380	75.00	10.9	Upper Marker	113.00
4	11,915	0.00	0.0		114.55

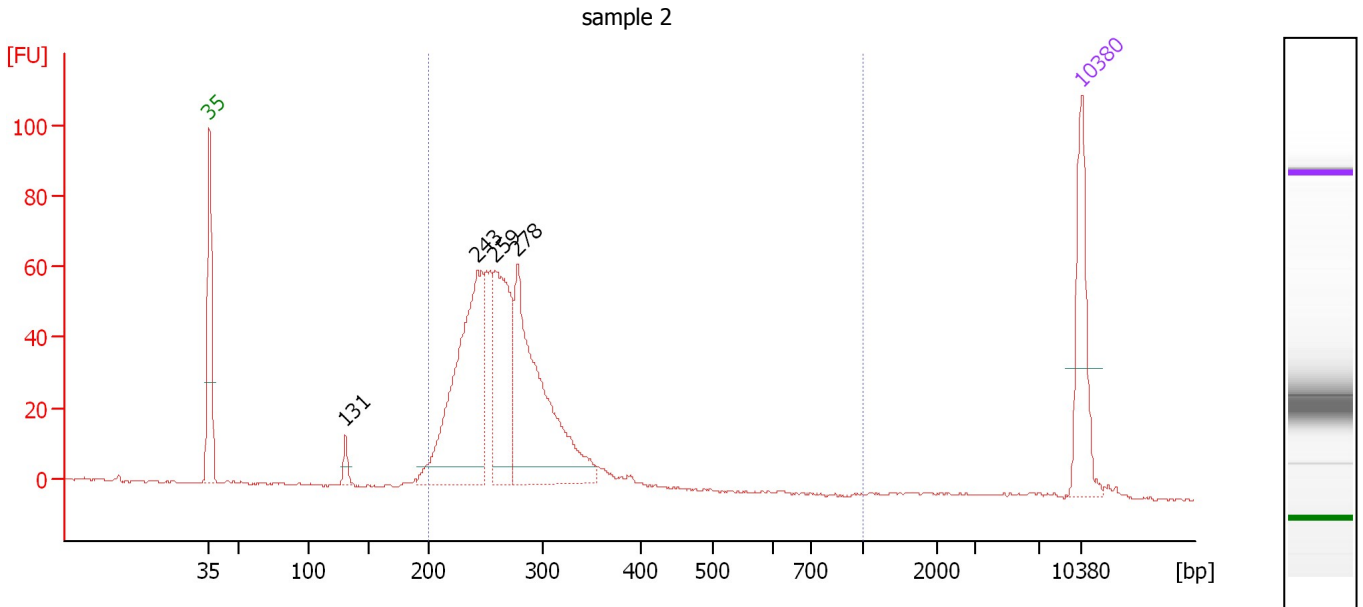
**Region table for sample 1 : sample 1**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	374	35.74	43.9	171.9	42	44.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2**

Number of peaks found: 4                      Corr. Area 1: 759.9  
 Noise: 0.3

**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	131	16.71	194.0		53.91
3	243	333.44	2,075.5		64.52
4	259	186.11	1,089.9		65.93
5	278	309.99	1,688.1		67.73
6	10,380	75.00	10.9	Upper Marker	113.00

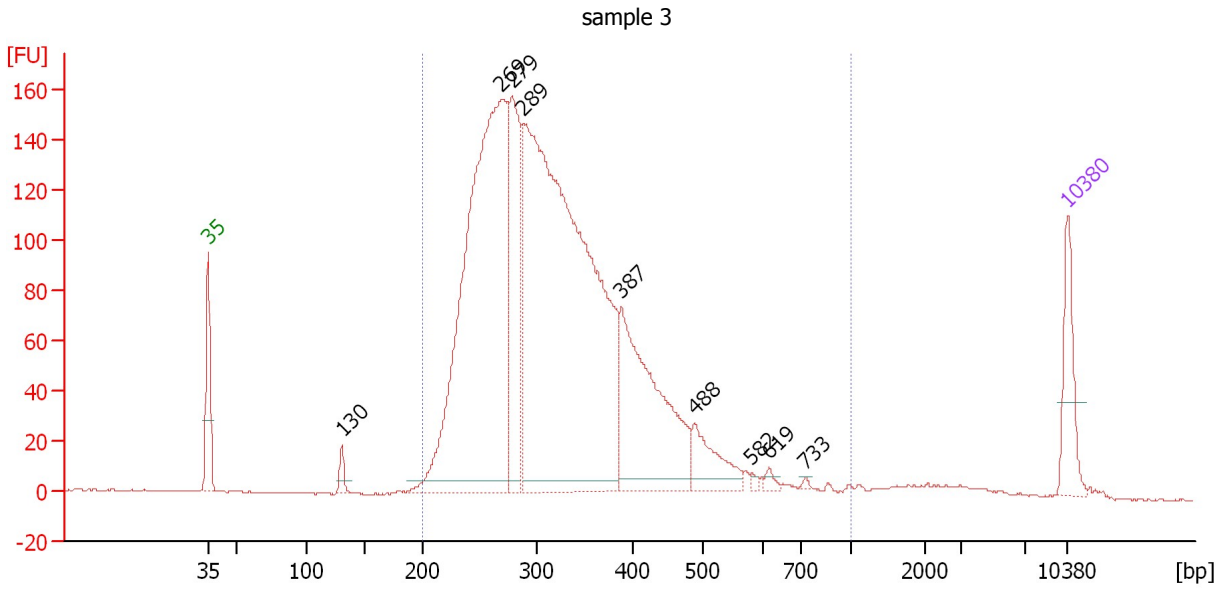
**Region table for sample 2 : sample 2**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	270	957.66	759.9	5,471.5	96	14.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 3**

Number of peaks found: 9                      Corr. Area 1: 3,073.5  
 Noise: 0.4

**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	24.36	283.7		53.87
3	269	1,296.53	7,305.8		66.87
4	279	305.65	1,661.1		67.78
5	289	1,696.49	8,903.4		68.70
6	387	409.18	1,600.5		76.65
7	488	91.18	283.4		82.65
8	582	4.89	12.7		87.30
9	619	8.87	21.7		88.74
10	733	3.51	7.3		91.70
11	10,380	75.00	10.9	Upper Marker	113.00

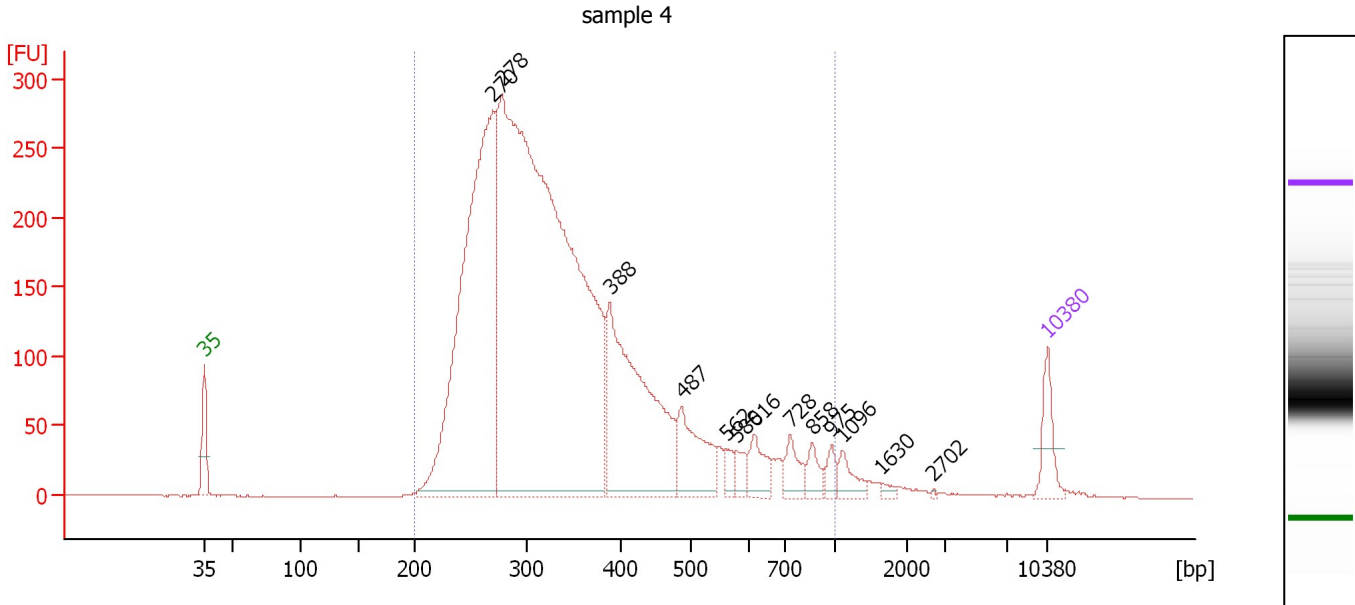
**Region table for sample 3 : sample 3**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	330	3,793.73	3,073.5	18,855.0	97	28.0

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 4**

Number of peaks found: 13                      Corr. Area 1: 5,445.6  
 Noise: 0.3

**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	270	1,739.45	9,757.3		66.98
3	278	3,831.35	20,861.1		67.73
4	388	784.26	3,065.7		76.67
5	487	219.94	683.7		82.65
6	562	30.29	81.7		86.32
7	580	37.06	96.8		87.20
8	616	83.03	204.2		88.66
9	728	67.52	140.5		91.63
10	858	45.41	80.2		93.44
11	975	33.44	52.0		95.08
12	1,096	48.85	67.5		96.01
13	1,630	11.51	10.7		99.19
14	2,702	2.25	1.3		103.53
15	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : sample 4**

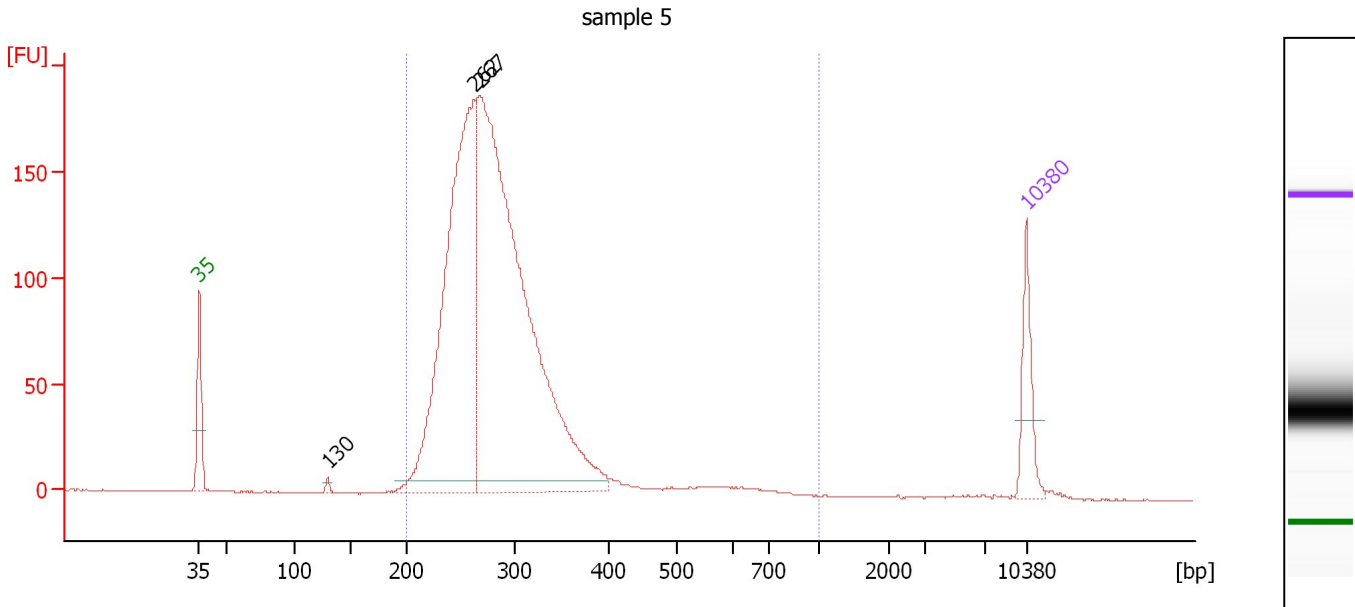
From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	357	6,615.63	5,445.6	31,579.9	98	36.3



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 5**

Number of peaks found: 3                      Corr. Area 1: 2,265.1  
 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	130	8.36	97.2		53.88
3	262	1,056.53	6,107.9		66.24
4	267	1,655.06	9,375.3		66.74
5	10,380	75.00	10.9	Upper Marker	113.00

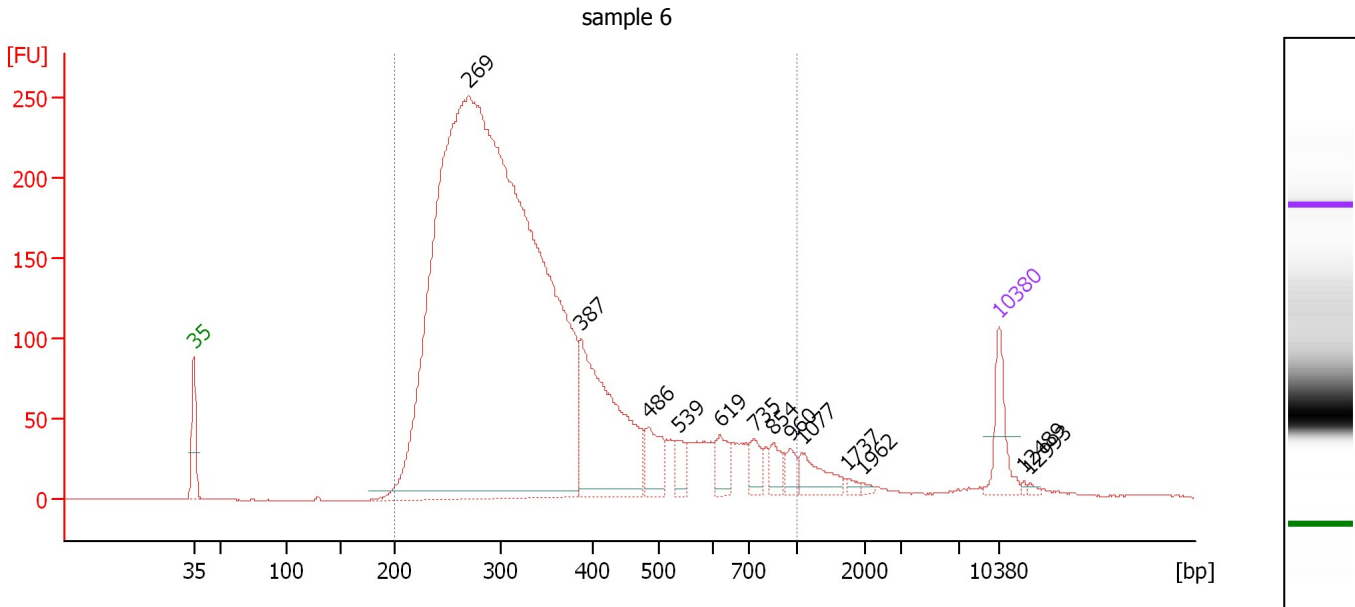
**Region table for sample 5 : sample 5**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	291	2,751.54	2,265.1	14,961.4	99	23.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 6**

Number of peaks found: 13                      Corr. Area 1: 4,894.5  
 Noise: 0.4

**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	269	4,993.44	28,079.8		66.92
3	387	534.11	2,089.0		76.66
4	486	93.75	292.5		82.54
5	539	45.07	126.7		85.23
6	619	54.89	134.3		88.75
7	735	44.06	90.9		91.72
8	854	39.28	69.7		93.39
9	960	27.53	43.5		94.87
10	1,077	61.25	86.2		95.89
11	1,737	8.35	7.3		99.83
12	1,962	5.48	4.2		101.18
13	10,380	75.00	10.9	Upper Marker	113.00
14	12,489	0.00	0.0		115.13
15	12,993	0.00	0.0		115.64

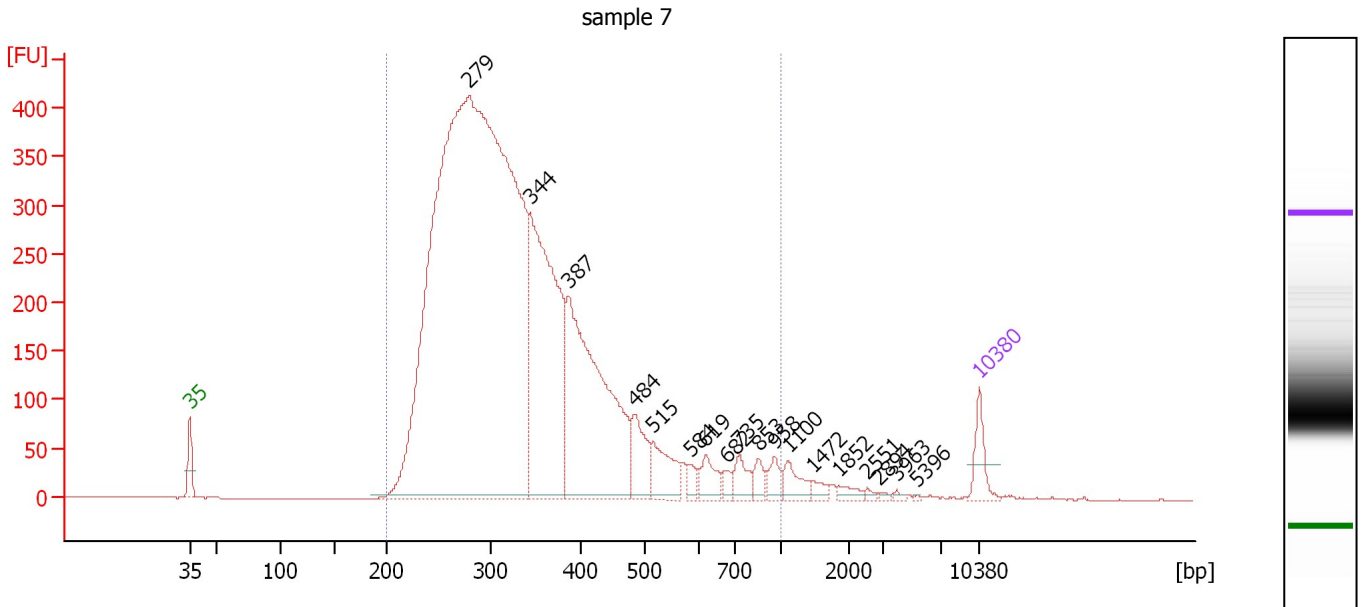
**Region table for sample 6 : sample 6**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	354	5,767.68	4,894.5	28,251.6	96	39.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7**

Number of peaks found: 18                      Corr. Area 1: 8,029.6  
 Noise: 0.2

**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	279	6,839.54	37,193.0		67.77
3	344	1,374.23	6,056.7		73.20
4	387	1,201.79	4,708.1		76.61
5	484	182.07	569.7		82.47
6	515	165.63	487.5		84.07
7	584	35.39	91.9		87.38
8	619	80.50	197.0		88.75
9	682	29.79	66.2		90.69
10	735	70.98	146.3		91.73
11	853	45.62	81.0		93.38
12	958	50.13	79.3		94.85
13	1,100	66.32	91.4		96.03
14	1,472	25.63	26.4		98.25
15	1,852	25.23	20.6		100.52
16	2,551	9.09	5.4		103.07
17	2,894	6.18	3.2		104.11
18	3,963	6.55	2.5		105.67
19	5,396	3.09	0.9		107.52
20	10,380	75.00	10.9	Upper Marker	113.00

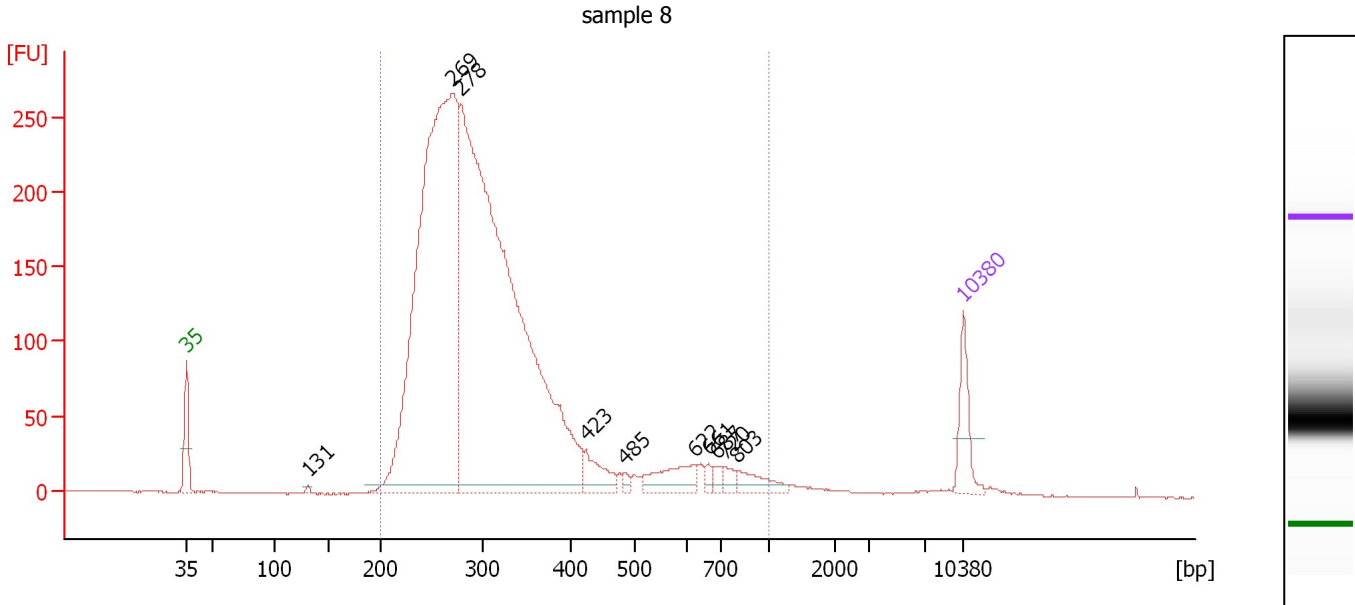
**Region table for sample 7 : sample 7**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	348	9,885.23	8,029.6	47,783.4	98	34.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 8**

Number of peaks found: 10                      Corr. Area 1: 4,093.9  
 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	131	6.18	71.5		53.95
3	269	2,029.59	11,410.6		66.93
4	278	2,583.54	14,062.5		67.74
5	423	73.72	263.9		78.98
6	485	12.83	40.1		82.49
7	622	82.75	201.7		88.83
8	661	13.32	30.5		90.04
9	687	16.24	35.8		90.85
10	720	21.66	45.5		91.52
11	803	46.43	87.6		92.68
12	10,380	75.00	10.9	Upper Marker	113.00

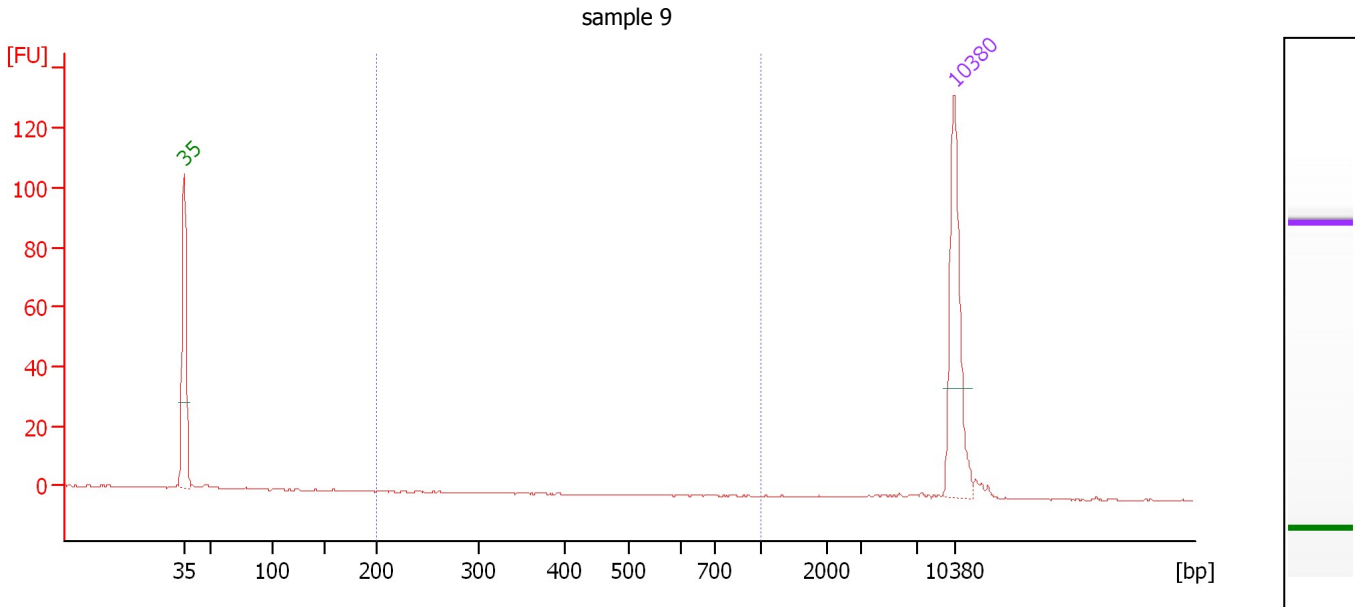
**Region table for sample 8 : sample 8**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	323	4,795.68	4,093.9	24,732.6	98	35.1

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : sample 9**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 9 : sample 9**

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

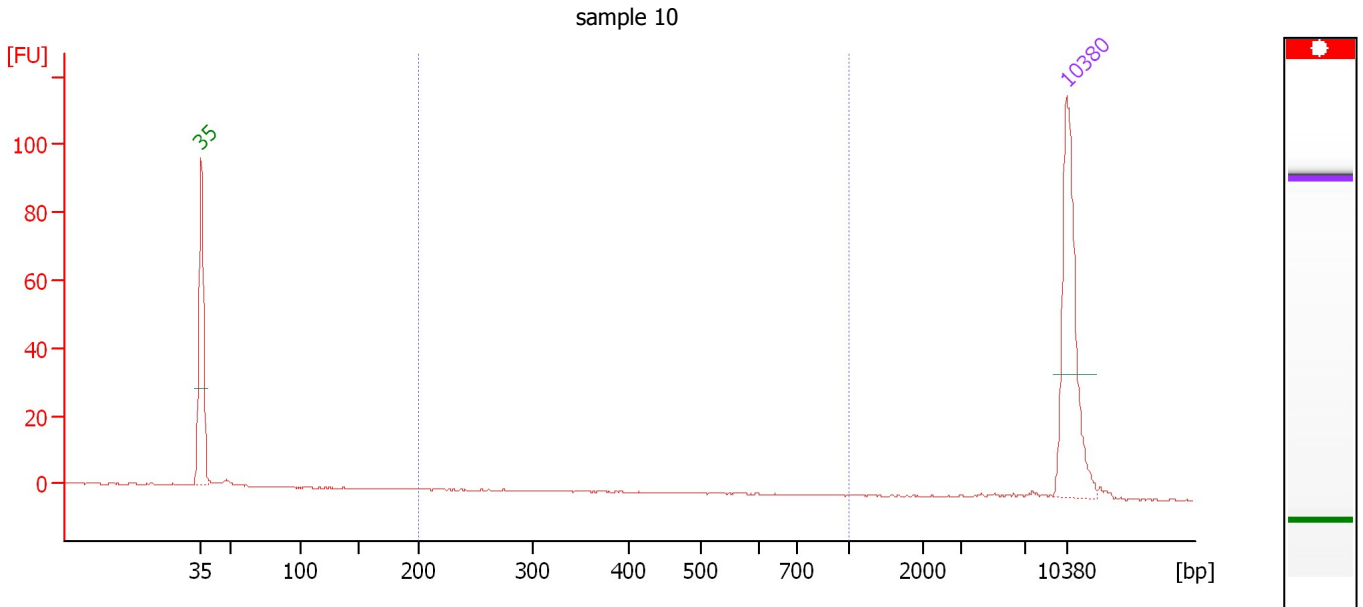
**Region table for sample 9 : sample 9**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	0	0.00	0.0	0.0	0	0.0

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : sample 10**

End Analysis Time Range [s] : 125.8

**Overall Results for sample 10 : sample 10**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 10 : sample 10**

Pea k	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 : sample 10**

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	0	0.00	0.0	0.0	0	0.0

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**Gel Image**

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**Invalid Samples**

Sample 11 has not been run, no results available.