

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-30\2015-06-30\_001.xad

Created: 6/30/2015 9:25:09 AM  
Modified: 6/30/2015 10:22:54 AM

**Electrophoresis File Run Summary**

Instrument Information:

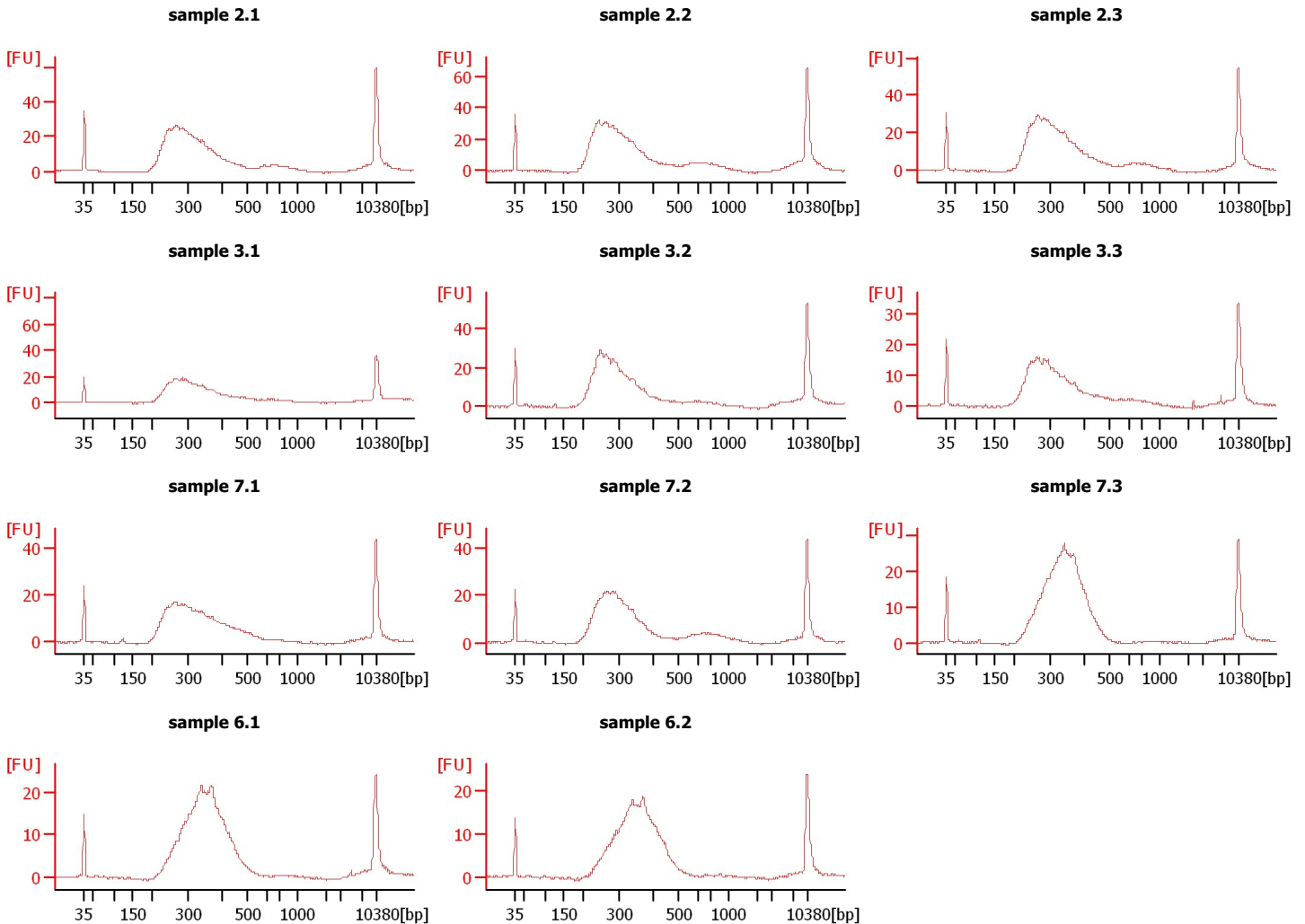
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
sample 2.1		<input type="checkbox"/>	✓			
sample 2.2		<input type="checkbox"/>	✓			
sample 2.3		<input type="checkbox"/>	✓			
sample 3.1		<input type="checkbox"/>	✓			
sample 3.2		<input type="checkbox"/>	✓			
sample 3.3		<input type="checkbox"/>	✓			
sample 7.1		<input type="checkbox"/>	✓			
sample 7.2		<input type="checkbox"/>	✓			
sample 7.3		<input type="checkbox"/>	✓			
sample 6.1		<input type="checkbox"/>	✓			
sample 6.2		<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

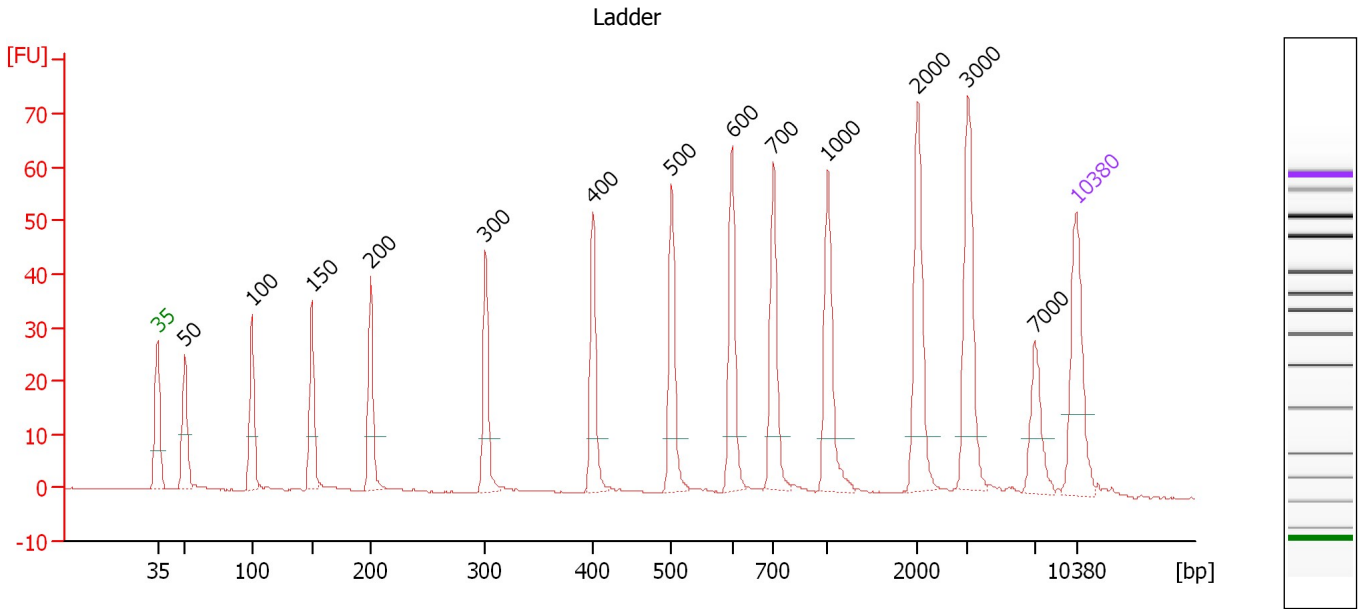
**Ladder**

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: 0.1

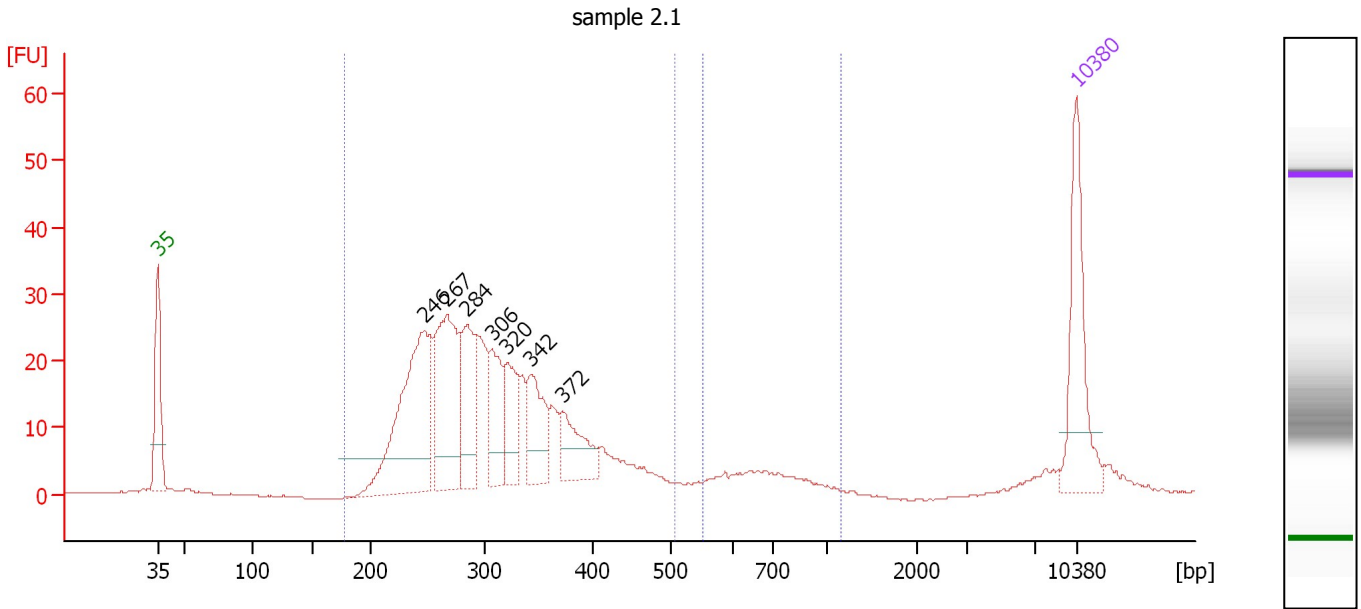
**Peak table for Ladder**

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	45.09
3	100	150.00	2,272.7	Ladder Peak	50.18
4	150	150.00	1,515.2	Ladder Peak	54.76
5	200	150.00	1,136.4	Ladder Peak	59.23
6	300	150.00	757.6	Ladder Peak	67.99
7	400	150.00	568.2	Ladder Peak	76.19
8	500	150.00	454.5	Ladder Peak	82.18
9	600	150.00	378.8	Ladder Peak	86.76
10	700	150.00	324.7	Ladder Peak	89.93
11	1,000	150.00	227.3	Ladder Peak	94.06
12	2,000	150.00	113.6	Ladder Peak	100.90
13	3,000	150.00	75.8	Ladder Peak	104.74
14	7,000	150.00	32.5	Ladder Peak	109.89
15	10,380	75.00	10.9	Upper Marker	113.00

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sample 2.1**

Number of peaks found: 7                      Corr. Area 1: 433.8  
 Noise: 0.1                                      Corr. Area 2: 24.2

**Peak table for sample 1 : sample 2.1**

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	246	197.17	1,212.1		63.30
3	267	147.38	837.6		65.06
4	284	81.63	435.4		66.60
5	306	57.58	285.2		68.48
6	320	52.84	250.3		69.61
7	342	59.78	264.9		71.43
8	372	47.53	193.7		73.88
9	10,380	75.00	10.9	Upper Marker	113.00

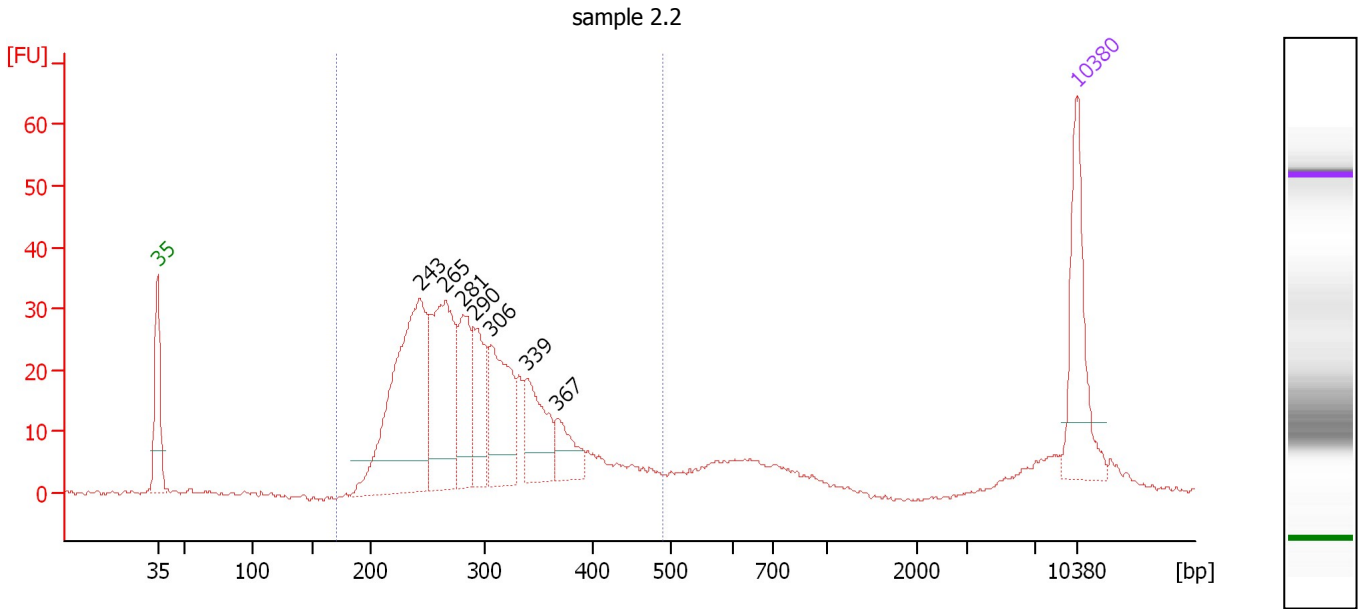
**Region table for sample 1 : sample 2.1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
178	306	506	433.8	4,434.4	90	19.8	854.97
551	703	1,150	24.2	86.0	5	17.6	38.75

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sample 2.2**

Number of peaks found: 7                      Corr. Area 1: 509.3  
 Noise: 0.4

**Peak table for sample 2 : sample 2.2**

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	243	281.29	1,755.6		62.98
3	265	173.39	991.0		64.93
4	281	88.82	479.2		66.31
5	290	67.30	351.6		67.12
6	306	109.82	544.6		68.44
7	339	70.54	315.7		71.15
8	367	36.24	149.8		73.45
9	10,380	75.00	10.9	Upper Marker	113.00

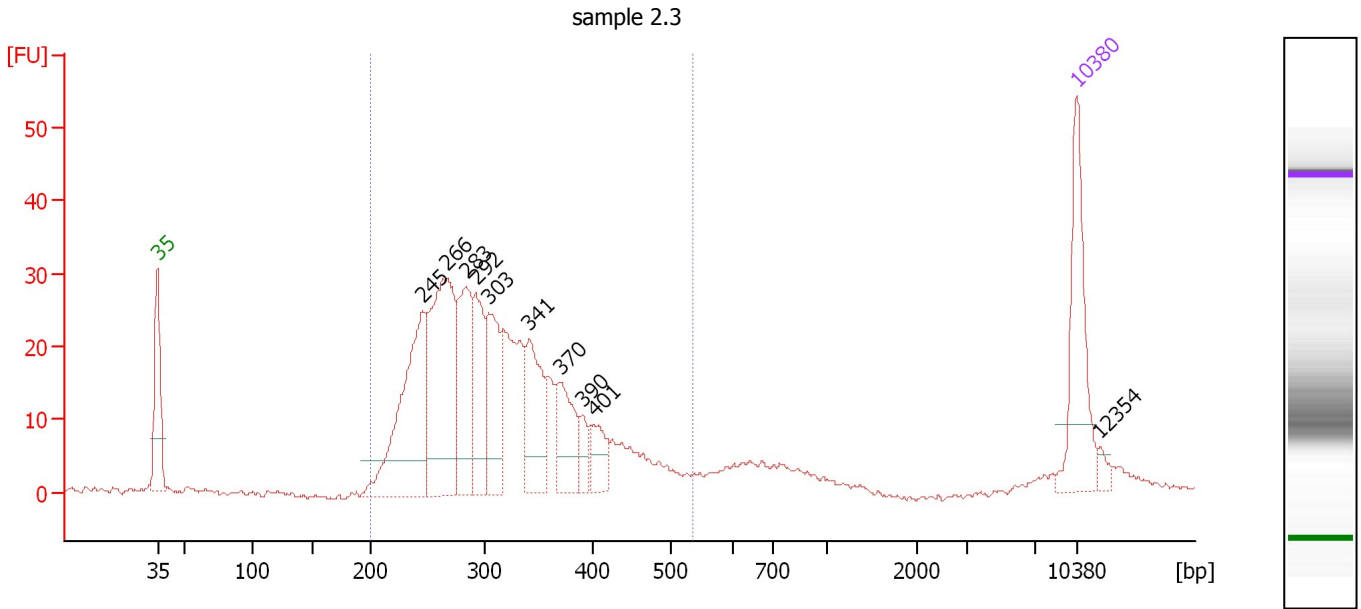
**Region table for sample 2 : sample 2.2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
170	295	489	509.3	5,121.3	85	20.4	951.42

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : sample 2.3**

Number of peaks found: 10                      Corr. Area 1: 471.1  
 Noise: 0.4

**Peak table for sample 3 : sample 2.3**

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	245	189.24	1,168.3		63.21
3	266	200.92	1,143.8		65.03
4	283	101.48	543.6		66.49
5	292	75.16	390.6		67.25
6	303	83.48	417.3		68.25
7	341	80.56	358.0		71.35
8	370	58.92	241.6		73.69
9	390	18.45	71.6		75.39
10	401	27.63	104.3		76.27
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,354	0.00	0.0		114.82

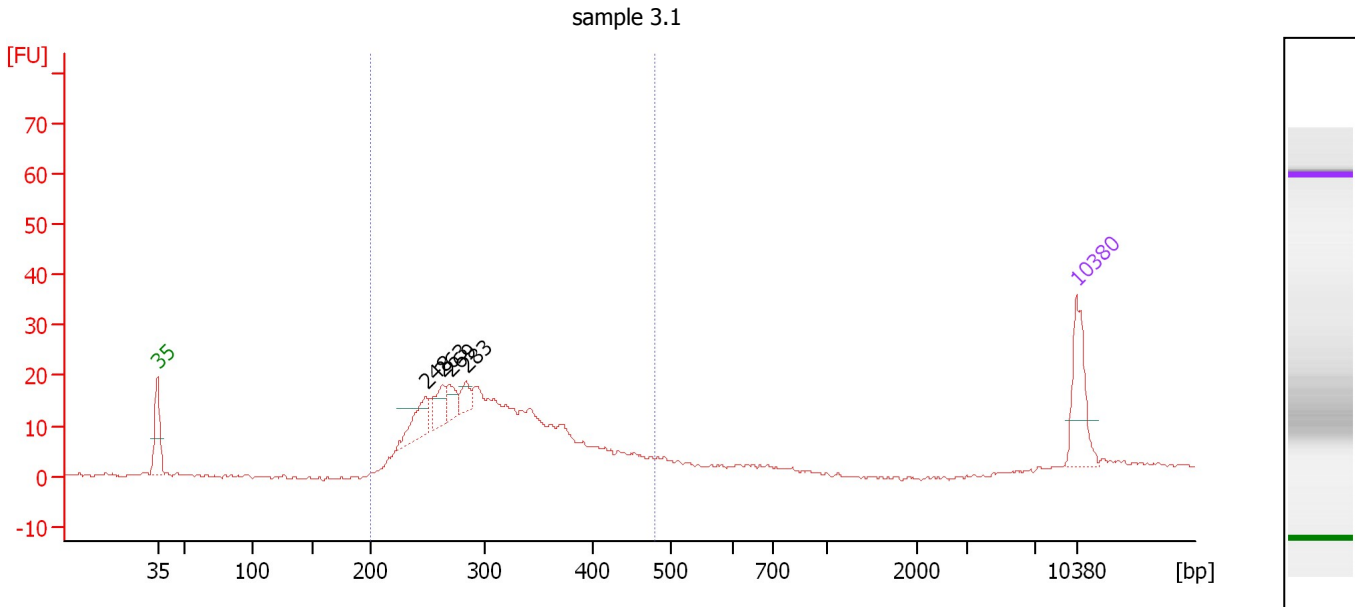
**Region table for sample 3 : sample 2.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	314	536	471.1	5,138.4	90	20.6	1,010.86

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : sample 3.1**

Number of peaks found: 4                      Corr. Area 1: 282.3  
 Noise: 0.3

**Peak table for sample 4 : sample 3.1**

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	248	63.42	387.3		63.44
3	263	43.06	248.1		64.75
4	269	29.22	164.5		65.28
5	283	25.32	135.4		66.53
6	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 4 : sample 3.1**

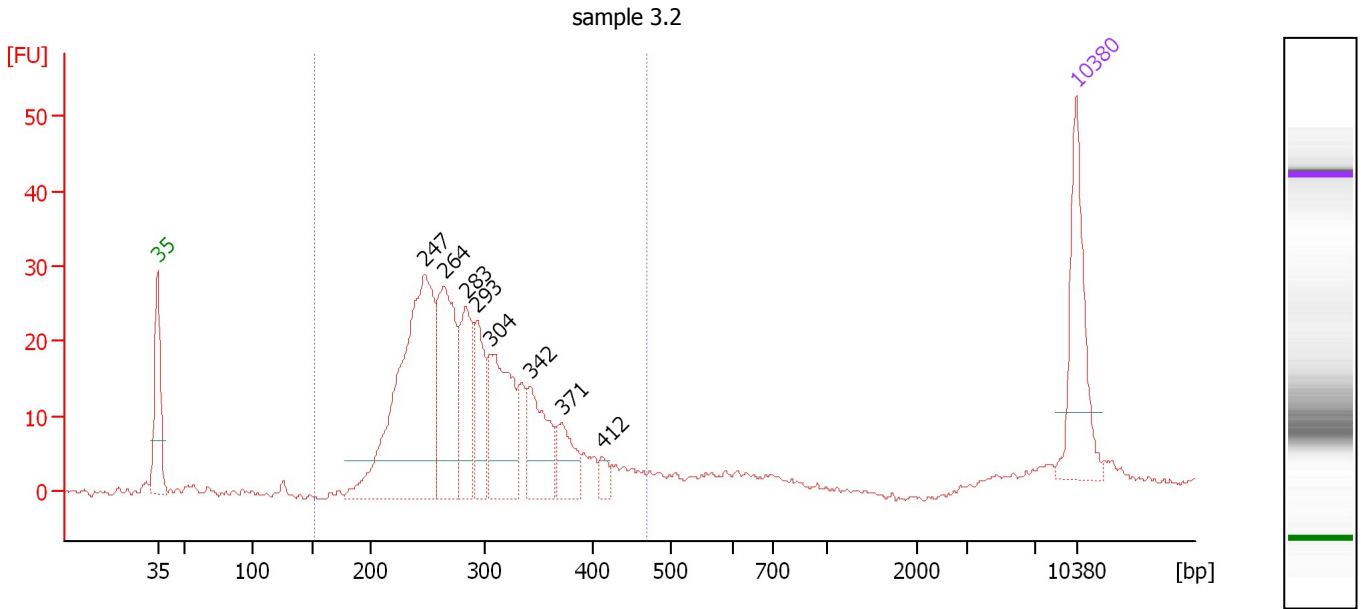
From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
200	313	480	282.3	5,424.1	82	19.1	1,070.57



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : sample 3.2**

Number of peaks found: 8                      Corr. Area 1: 398.1  
 Noise: 0.2

**Peak table for sample 5 : sample 3.2**

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	247	328.71	2,019.9		63.31
3	264	146.83	843.6		64.81
4	283	78.93	422.7		66.49
5	293	61.03	316.1		67.33
6	304	119.11	592.8		68.36
7	342	69.55	308.3		71.42
8	371	37.61	153.6		73.82
9	412	11.49	42.3		76.89
10	10,380	75.00	10.9	Upper Marker	113.00

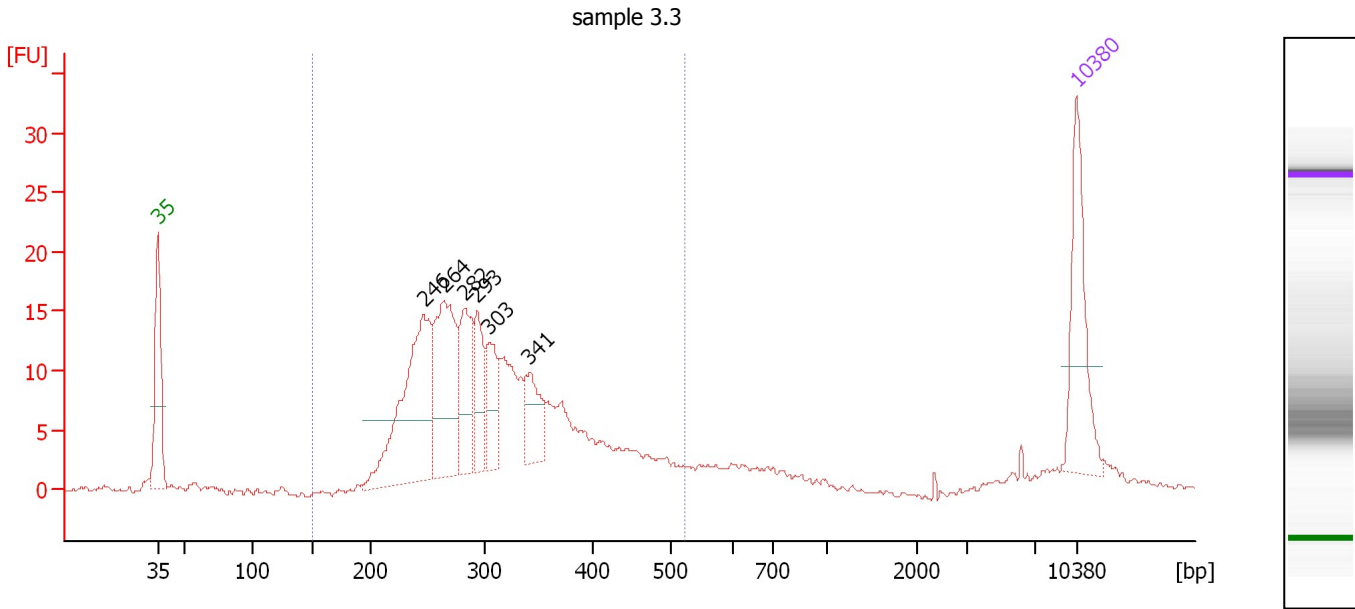
**Region table for sample 5 : sample 3.2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
152	292	467	398.1	4,846.4	86	19.0	895.46

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : sample 3.3**

Number of peaks found: 6                      Corr. Area 1: 248.1  
 Noise: 0.3

**Peak table for sample 6 : sample 3.3**

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	246	201.59	1,240.1		63.29
3	264	147.61	848.6		64.80
4	282	76.68	412.7		66.37
5	293	53.41	276.6		67.34
6	303	49.51	247.4		68.25
7	341	41.68	185.3		71.34
8	10,380	75.00	10.9	Upper Marker	113.00

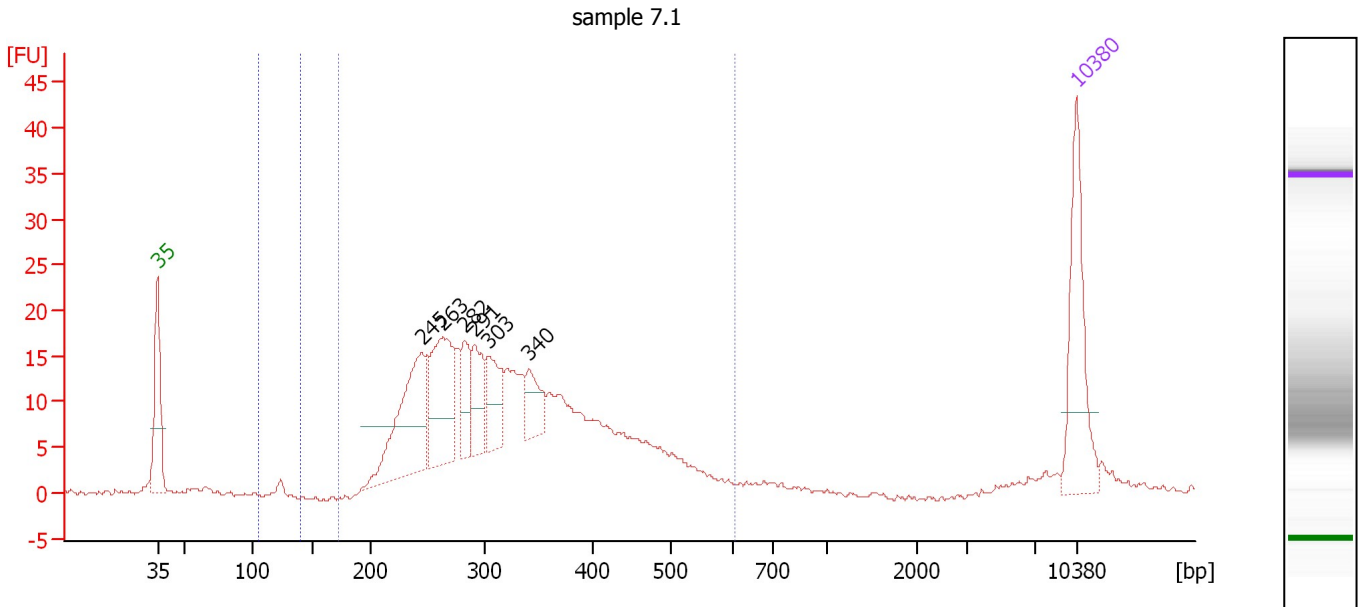
**Region table for sample 6 : sample 3.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
150	311	522	248.1	4,710.0	90	21.6	913.98

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : sample 7.1**

Number of peaks found: 6                      Corr. Area 1: 332.8  
 Noise: 0.3                                      Corr. Area 2: 1.0

**Peak table for sample 7 : sample 7.1**

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	245	139.91	866.9		63.13
3	263	108.09	623.4		64.72
4	282	39.16	210.7		66.37
5	291	45.40	236.7		67.17
6	303	44.17	220.6		68.27
7	340	33.64	149.9		71.27
8	10,380	75.00	10.9	Upper Marker	113.00

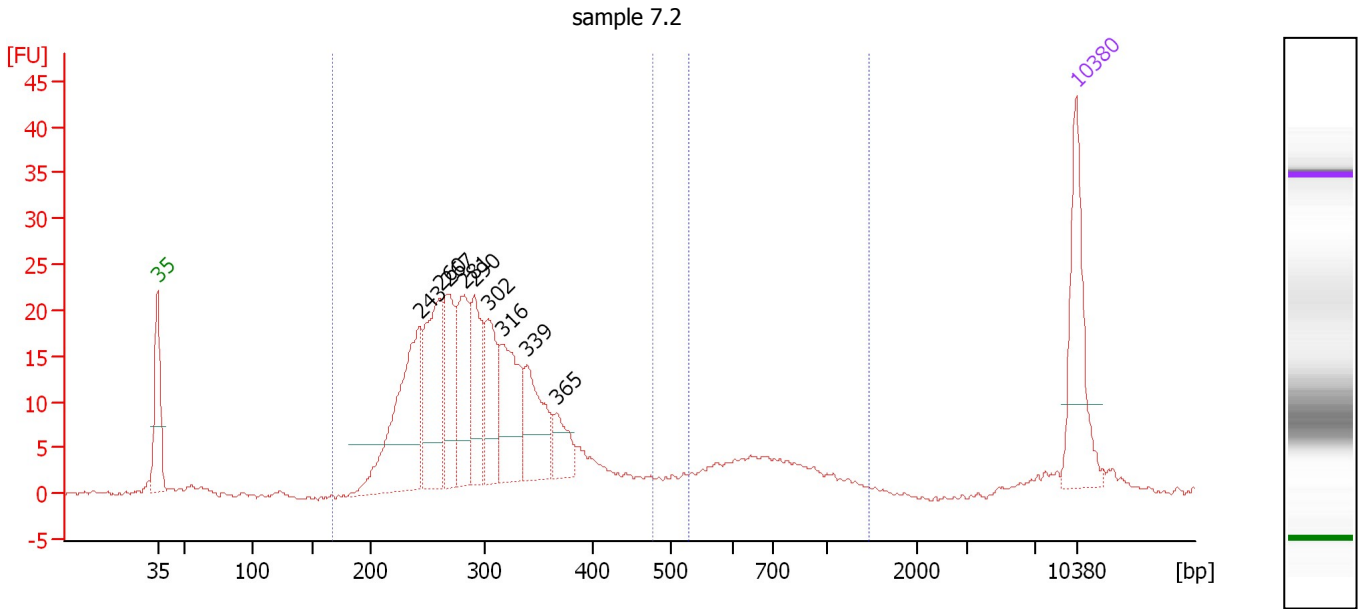
**Region table for sample 7 : sample 7.1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]	Conc. [pg/μl]
106	124	140	1.0	42.5	0	1.3	3.46
172	330	609	332.8	4,537.9	94	24.9	915.03

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : sample 7.2**

Number of peaks found: 9                      Corr. Area 1: 326.7  
 Noise: 0.3                                      Corr. Area 2: 38.4

**Peak table for sample 8 : sample 7.2**

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	243	179.26	1,118.5		62.98
3	260	121.99	710.0		64.51
4	267	80.45	456.0		65.13
5	281	87.33	470.4		66.35
6	290	67.27	351.0		67.15
7	302	69.06	346.0		68.19
8	316	93.95	450.6		69.30
9	339	74.88	334.6		71.20
10	365	31.06	128.8		73.34
11	10,380	75.00	10.9	Upper Marker	113.00

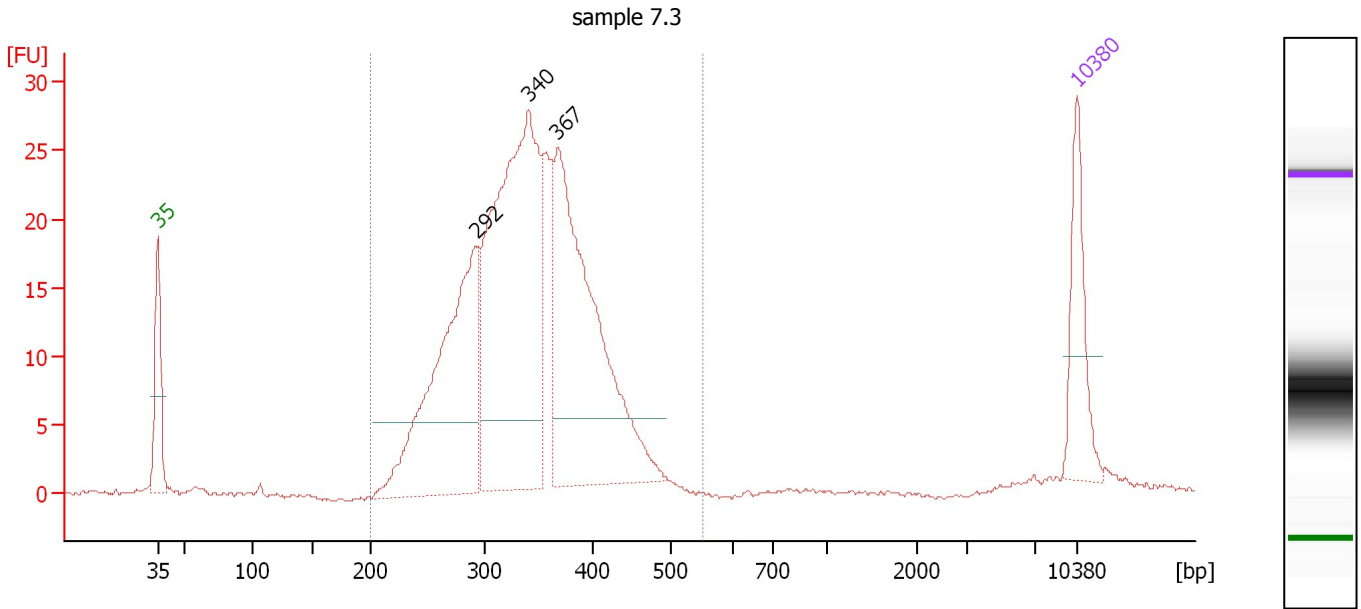
**Region table for sample 8 : sample 7.2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
168	296	475	326.7	5,076.1	84	18.0	955.86
530	747	1,451	38.4	194.2	10	26.1	89.75

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**Overall Results for sample 9 : sample 7.3**

Number of peaks found: 3                      Corr. Area 1: 377.3  
 Noise: 0.1

**Peak table for sample 9 : sample 7.3**

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	292	388.56	2,017.6		67.27
3	340	594.04	2,648.5		71.26
4	367	459.29	1,897.5		73.46
5	10,380	75.00	10.9	Upper Marker	113.00

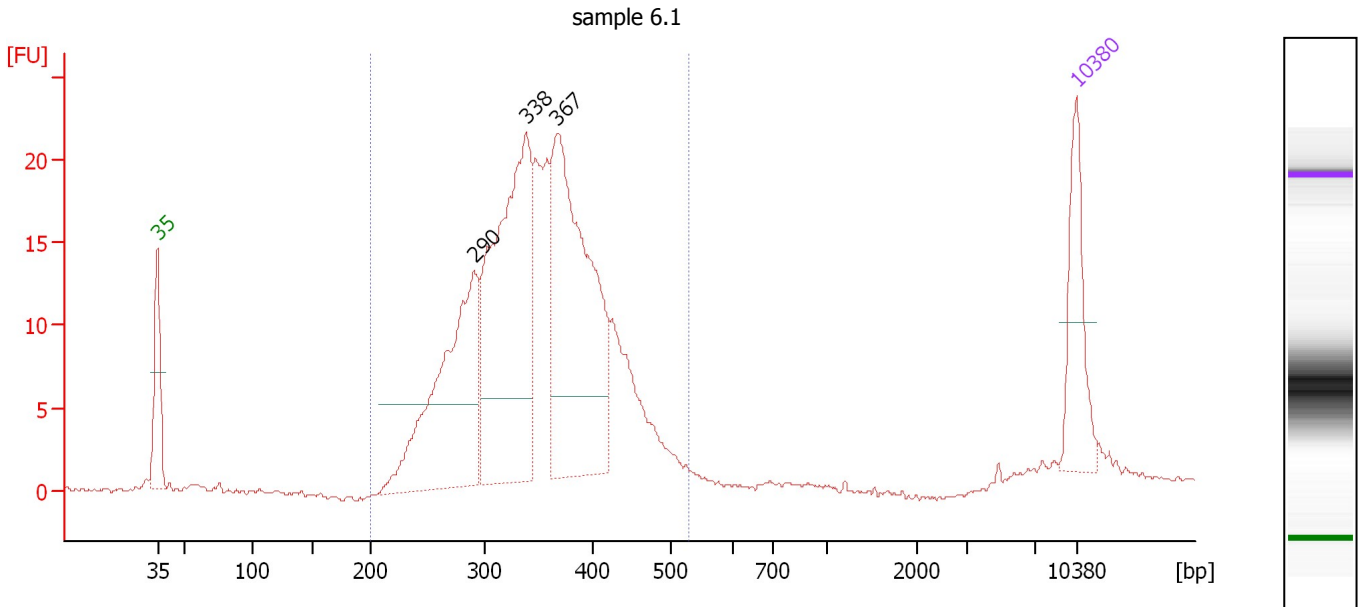
**Region table for sample 9 : sample 7.3**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	339	553	377.3	7,364.5	97	15.8	1,593.68

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : sample 6.1**

Number of peaks found: 3                      Corr. Area 1: 311.6  
 Noise: 0.2

**Peak table for sample 10 : sample 6.1**

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	290	313.03	1,637.1		67.09
3	338	422.11	1,894.5		71.07
4	367	398.32	1,645.6		73.46
5	10,380	75.00	10.9	Upper Marker	113.00

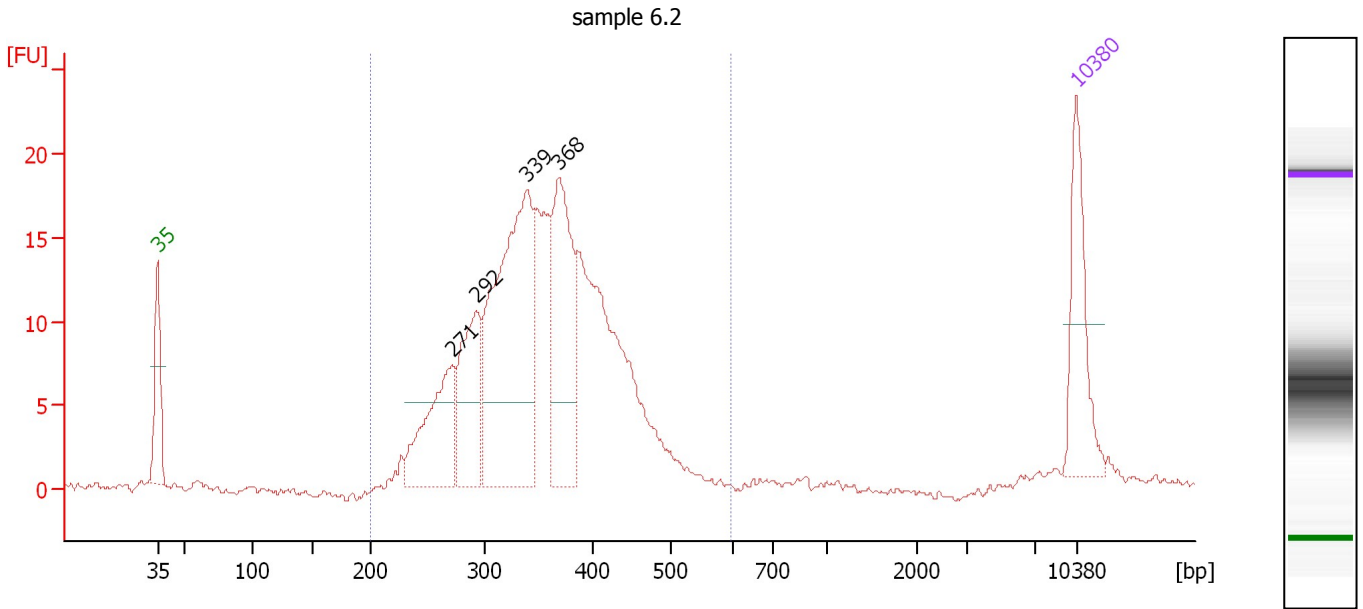
**Region table for sample 10 : sample 6.1**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	350	527	311.6	6,803.2	93	16.8	1,511.71

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : sample 6.2**

Number of peaks found: 4                      Corr. Area 1: 261.6  
 Noise: 0.2

**Peak table for sample 11 : sample 6.2**

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	271	130.84	731.5		65.45
3	292	123.26	639.4		67.30
4	339	352.69	1,576.6		71.19
5	368	179.34	739.3		73.53
6	10,380	75.00	10.9	Upper Marker	113.00

**Region table for sample 11 : sample 6.2**

From [bp]	Average Size [bp]	To [bp]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]	Conc. [pg/μl]
200	354	598	261.6	5,679.8	96	17.2	1,275.65

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**Gel Image**