

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-18\2014-06-18\_002.xad

Created: 6/18/2014 2:22:37 PM  
Modified: 6/18/2014 3:03:59 PM

**Electrophoresis File Run Summary**

Instrument Information:

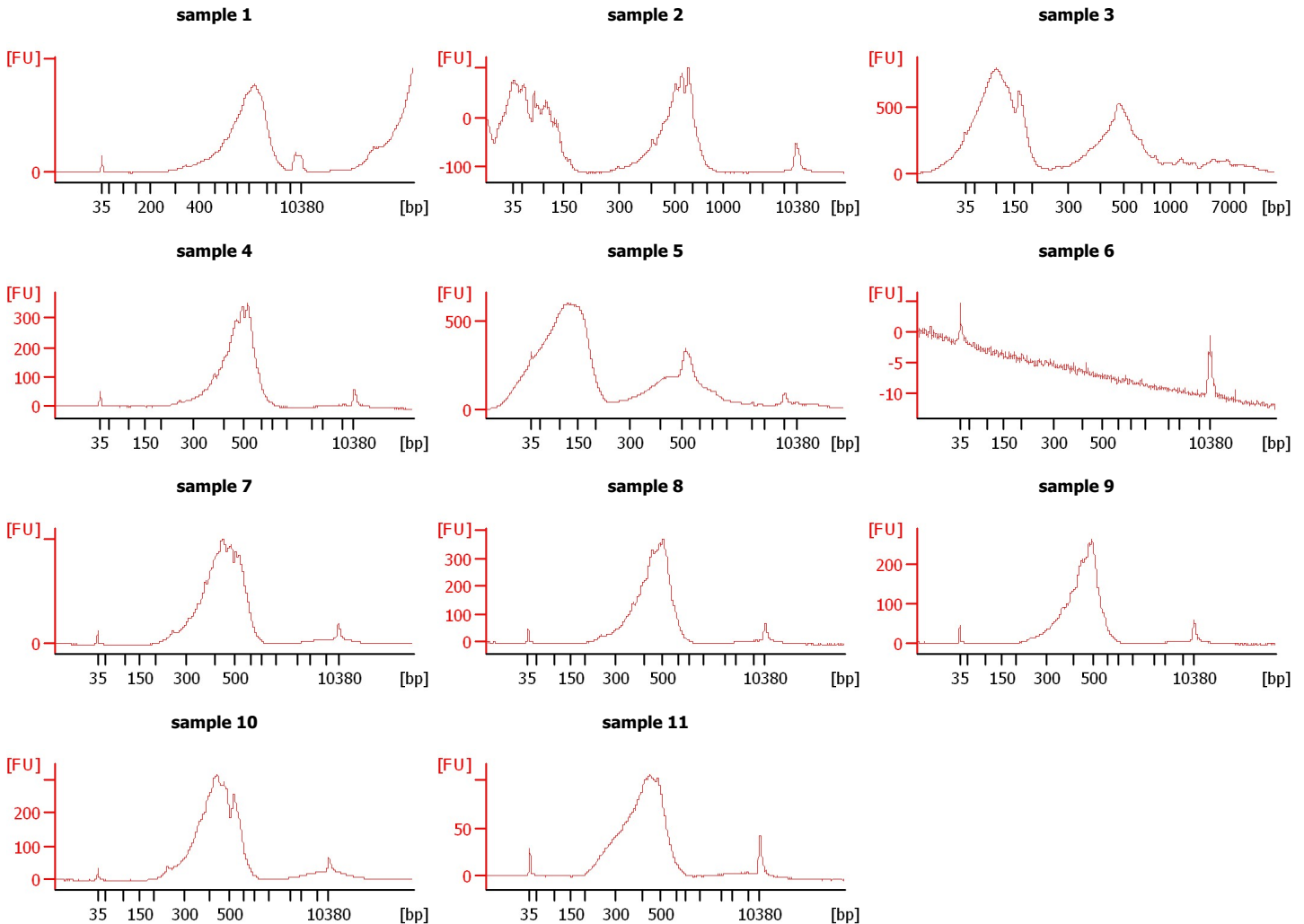
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



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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

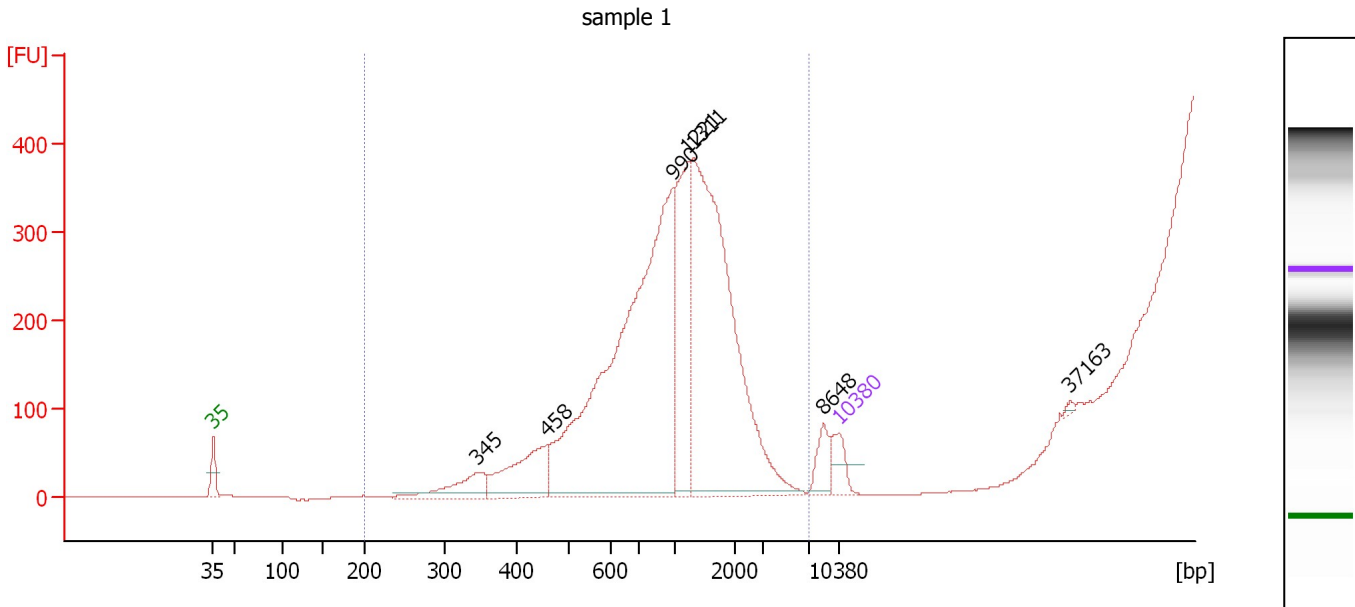
**Ladder**

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 sample 1 : sample 1**

Number of peaks found: 7                      Corr. Area 1: 896.7  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	345	177.19	778.0	
3	458	313.46	1,037.0	
4	990	1,998.82	3,060.4	
5	1,221	488.71	606.4	
6	1,311	1,558.94	1,802.0	
7	8,648	76.78	13.5	
8	10,380	75.00	10.9	Upper Marker
9	37,163	0.00	0.0	

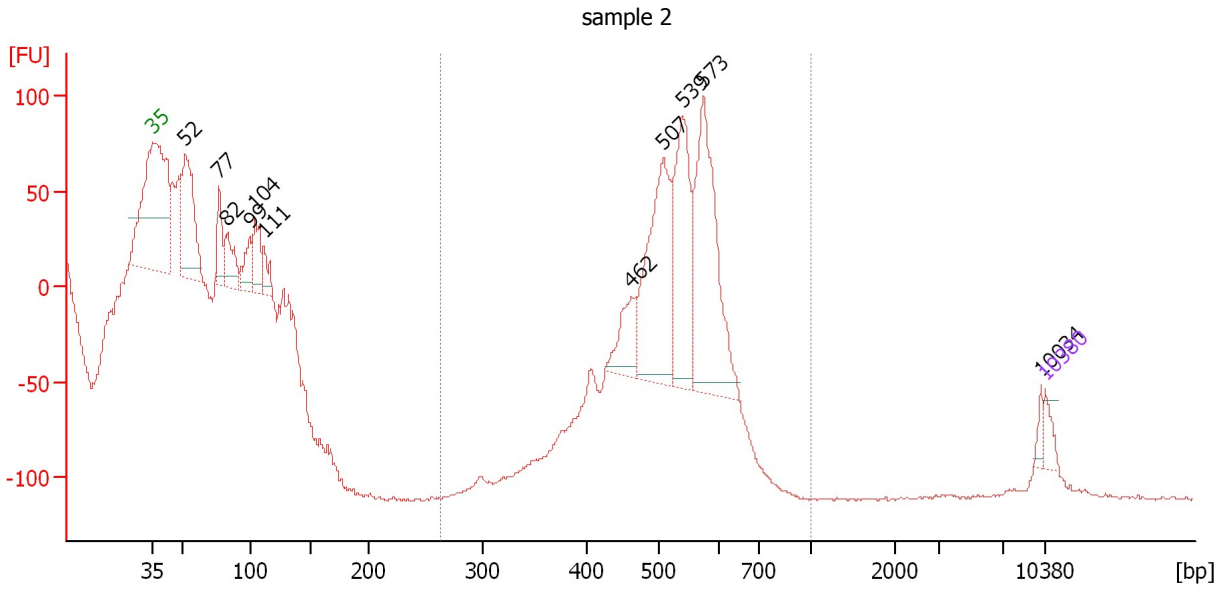
**Region table for sample 1 : sample 1**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	7,026	1,216	1,000.9	759.17	896.7	100	24.5

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 11      Corr. Area 1: 1,300.7  
 Noise: 0.5

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	52	1,022.43	29,747.9	
3	77	315.58	6,243.5	
4	82	312.21	5,745.9	
5	99	237.81	3,647.1	
6	104	320.61	4,690.6	
7	111	173.63	2,373.9	
8	462	328.80	1,079.0	
9	507	1,200.36	3,588.9	
10	539	937.79	2,635.7	
11	573	1,327.02	3,507.4	
12	10,034	49.39	7.5	
13	10,380	75.00	10.9	Upper Marker

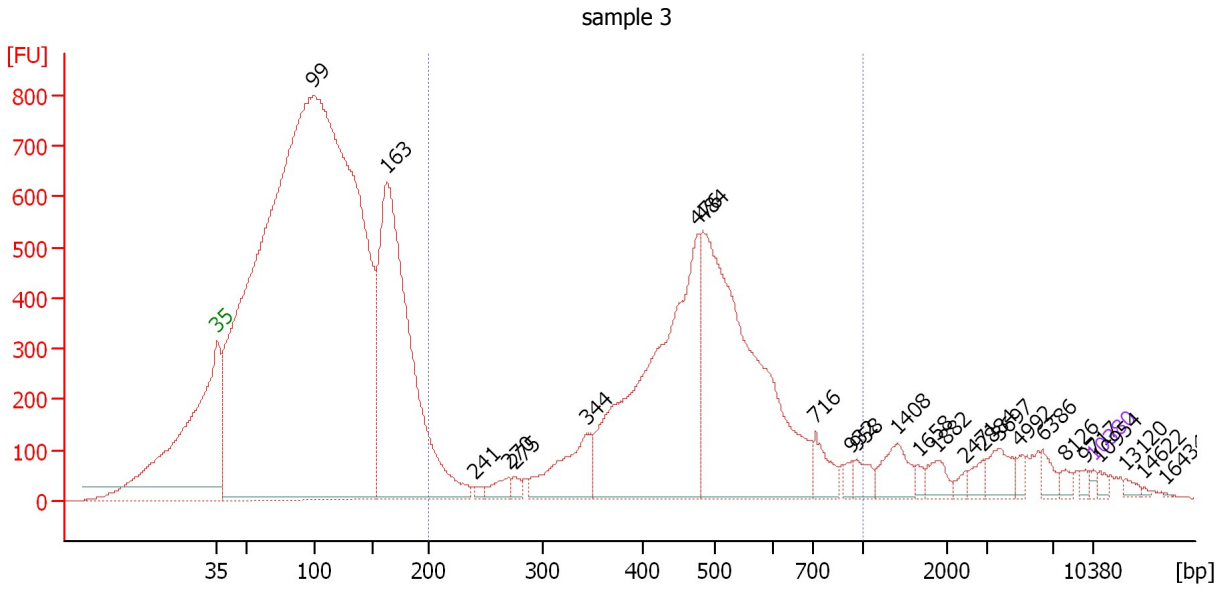
**Region table for sample 2 : sample 2**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
262	1,000	532	13,449.3	4,669.71	1,300.7	49	9.6

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 25                      Corr. Area 1: 7,982.9  
 Noise: 1.6

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	99	82,573.48	1,257,408.1	
3	163	17,364.57	161,535.4	
4	241	152.16	956.5	
5	270	470.26	2,635.8	
6	275	250.01	1,377.2	
7	344	2,237.14	9,842.3	
8	476	11,111.57	35,391.7	
9	484	12,247.51	38,348.6	
10	716	717.31	1,518.3	
11	932	177.97	289.3	
12	958	403.56	638.5	
13	1,408	806.56	868.1	
14	1,658	149.08	136.3	
15	1,882	380.08	306.0	
16	2,471	130.42	80.0	
17	2,884	257.72	135.4	
18	3,697	536.28	219.8	
19	4,992	157.55	47.8	
20	6,386	274.09	65.0	
21	8,126	157.15	29.3	
22	9,717	104.71	16.3	
23	10,380	75.00	10.9	Upper Marker
24	10,954	0.00	0.0	
25	13,120	0.00	0.0	
26	14,622	0.00	0.0	


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**Electropherogram Summary Continued ...****... Peak table for sample 3 : sample 3**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
27	16,434	0.00	0.0	

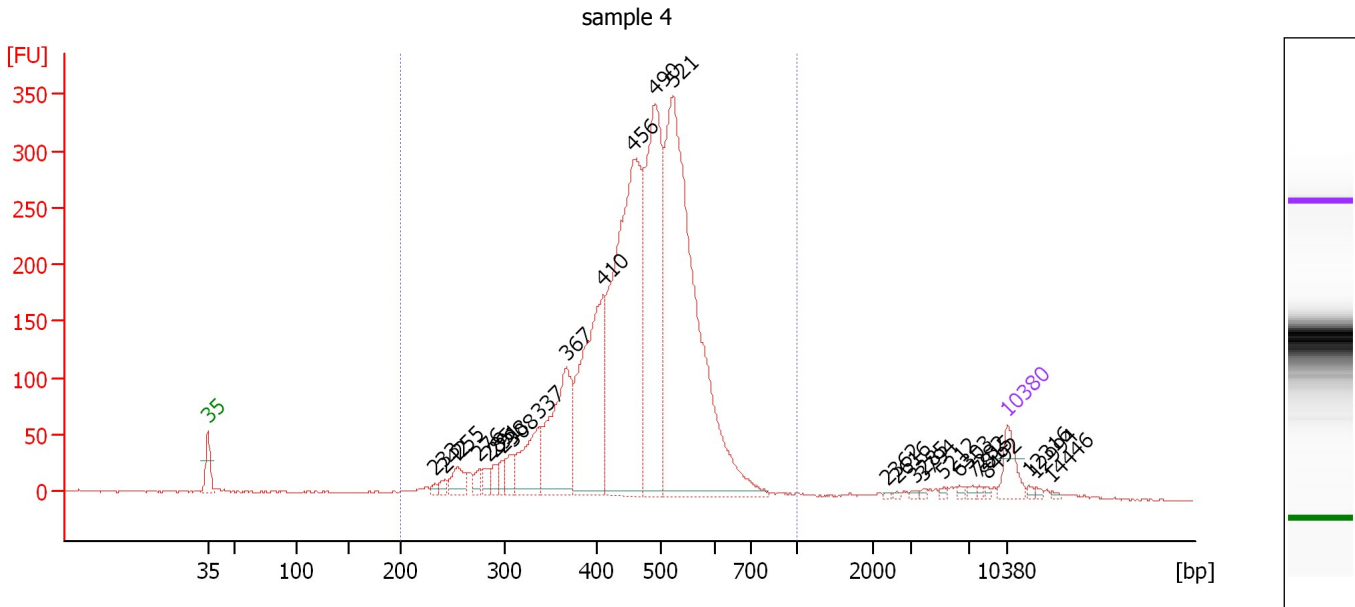
**Region table for sample 3 : sample 3**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	482	103,218.3	29,167.62	 7,982.9	28	27.3

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 26      Corr. Area 1: 4,312.8  
 Noise: 0.9

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	233	15.39	100.2	
3	242	21.48	134.4	
4	255	78.25	464.8	
5	276	35.43	194.7	
6	285	41.64	221.7	
7	291	37.24	193.7	
8	298	41.52	211.1	
9	308	57.75	283.9	
10	337	223.70	1,007.2	
11	367	486.87	2,009.4	
12	410	724.60	2,678.7	
13	456	1,418.18	4,708.0	
14	490	995.88	3,080.1	
15	521	1,867.42	5,433.6	
16	2,362	3.21	2.1	
17	2,616	3.40	2.0	
18	3,285	5.51	2.5	
19	3,794	5.80	2.3	
20	5,212	6.86	2.0	
21	6,303	8.27	2.0	
22	7,282	8.06	1.7	
23	7,815	7.11	1.4	
24	8,492	6.00	1.1	
25	10,380	75.00	10.9	Upper Marker
26	12,316	0.00	0.0	



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**Electropherogram Summary Continued ...****... Peak table for sample 4 : sample 4**

Peak	Size [bp]	Conc. [pg/ $\mu$ l]	Molarity [pmol/l]	Observations
27	12,994	0.00	0.0	
28	14,446	0.00	0.0	

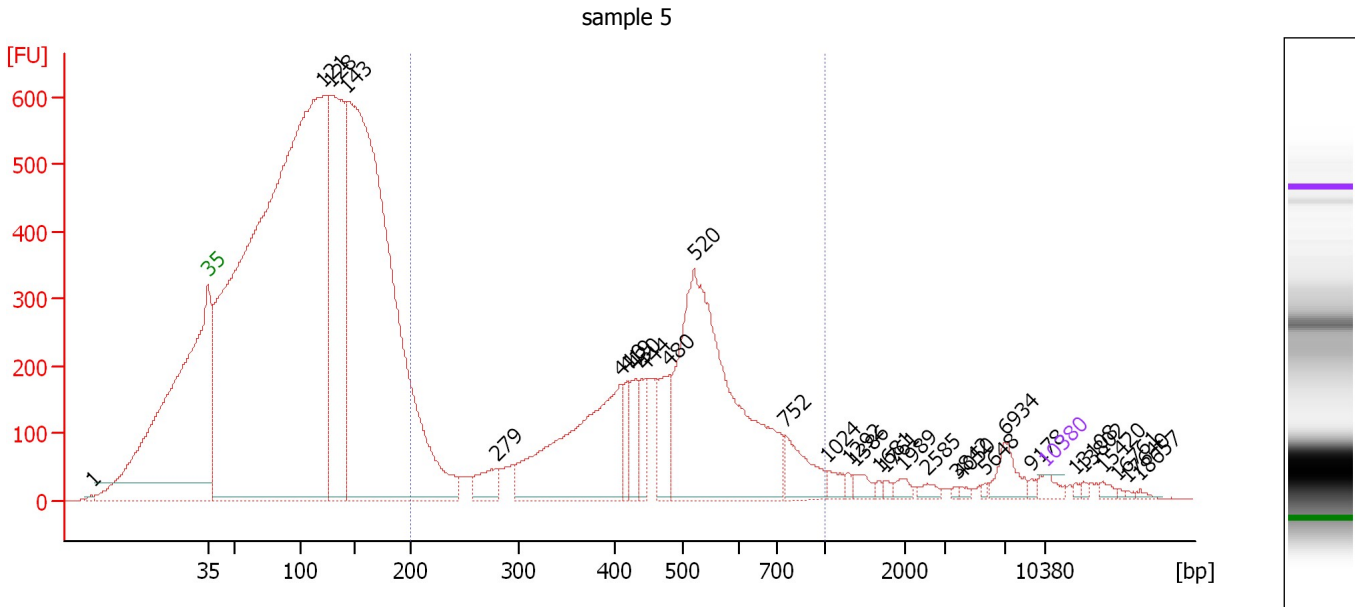
**Region table for sample 4 : sample 4**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ $\mu$ l]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	465	21,022.7	6,088.52	 4,312.8	96	18.7

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 30                      Corr. Area 1: 5,538.8  
 Noise: 2.1

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	1	0.00	0.0	
2	35	125.00	5,411.3	Lower Marker
3	121	20,852.05	260,622.8	
4	128	3,805.77	45,044.9	
5	143	11,841.20	125,852.8	
6	279	282.16	1,530.3	
7	410	2,058.99	7,605.9	
8	419	221.31	800.8	
9	430	310.87	1,096.2	
10	444	292.24	997.9	
11	480	440.93	1,393.0	
12	520	3,593.14	10,468.8	
13	752	392.11	790.0	
14	1,024	96.40	142.7	
15	1,292	31.61	37.1	
16	1,386	87.07	95.2	
17	1,681	23.74	21.4	
18	1,761	27.43	23.6	
19	1,989	56.75	43.2	
20	2,585	48.99	28.7	
21	3,842	15.54	6.1	
22	4,050	18.98	7.1	
23	5,648	15.78	4.2	
24	6,934	188.68	41.2	
25	9,178	22.95	3.8	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
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### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : sample 5

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	13,108	0.00	0.0	
28	13,802	0.00	0.0	
29	15,420	0.00	0.0	
30	16,761	0.00	0.0	
31	17,640	0.00	0.0	
32	18,657	0.00	0.0	

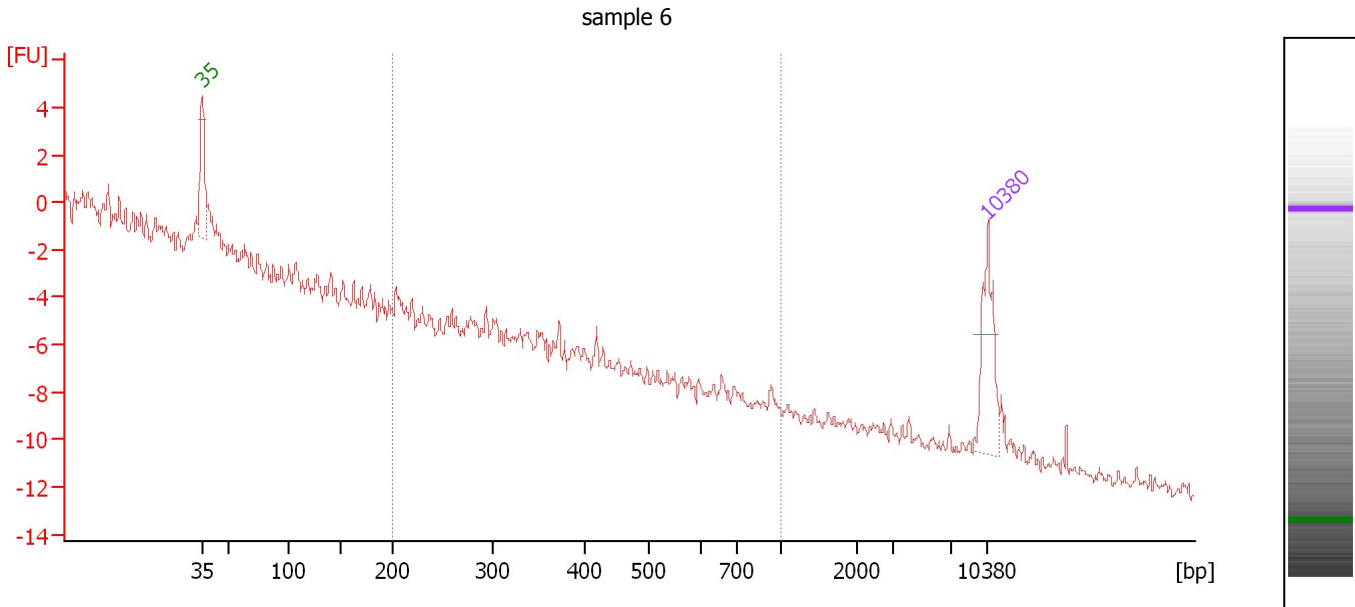
#### Region table for sample 5 : sample 5

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	473	35,890.2	9,372.02	 5,538.8	25	32.2

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.3

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

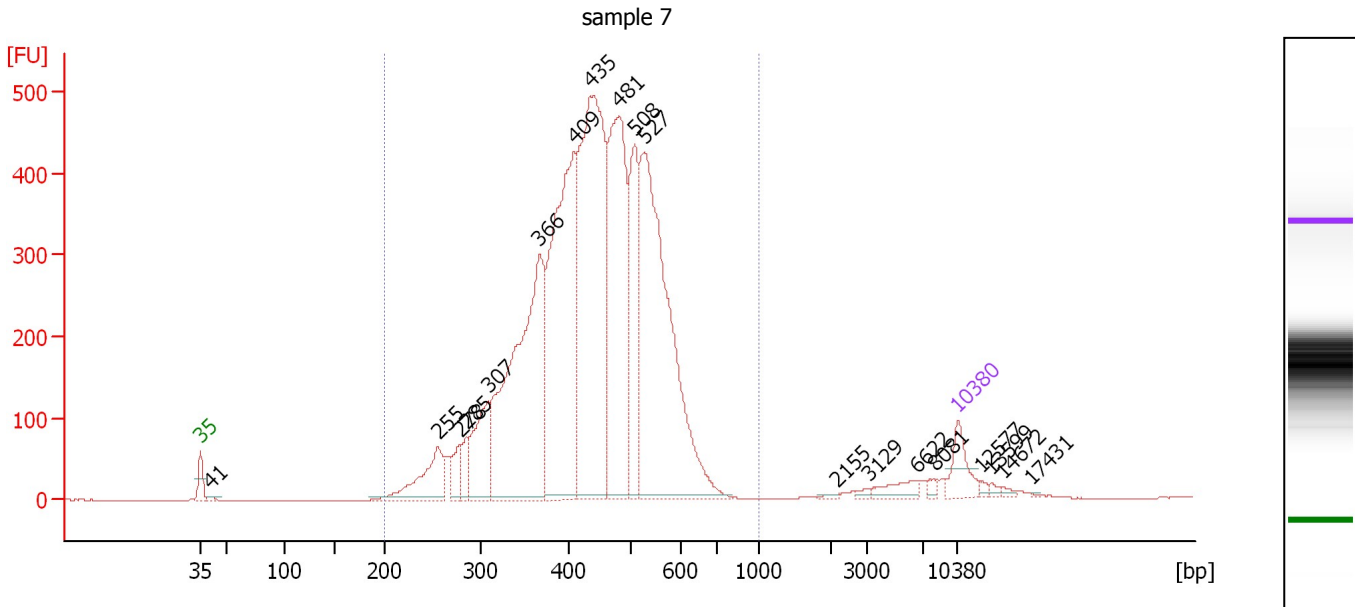
**Region table for sample 6 : sample 6**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	404	0.9	0.25	0.0	1	5.5

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**Electropherogram Summary Continued ...**



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

Number of peaks found: 19                      Corr. Area 1: 8,155.6  
 Noise: 0.2

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	41	11.92	442.1	
3	255	229.88	1,366.3	
4	278	73.63	401.5	
5	285	67.25	357.6	
6	307	246.94	1,218.7	
7	366	1,104.46	4,570.3	
8	409	1,055.39	3,909.3	
9	435	1,310.32	4,565.0	
10	481	822.24	2,587.6	
11	508	401.42	1,197.4	
12	527	1,246.38	3,583.1	
13	2,155	4.61	3.2	
14	3,129	9.07	4.4	
15	6,622	41.82	9.6	
16	8,081	10.45	2.0	
17	10,380	75.00	10.9	Upper Marker
18	12,577	0.00	0.0	
19	13,599	0.00	0.0	
20	14,672	0.00	0.0	
21	17,431	0.00	0.0	

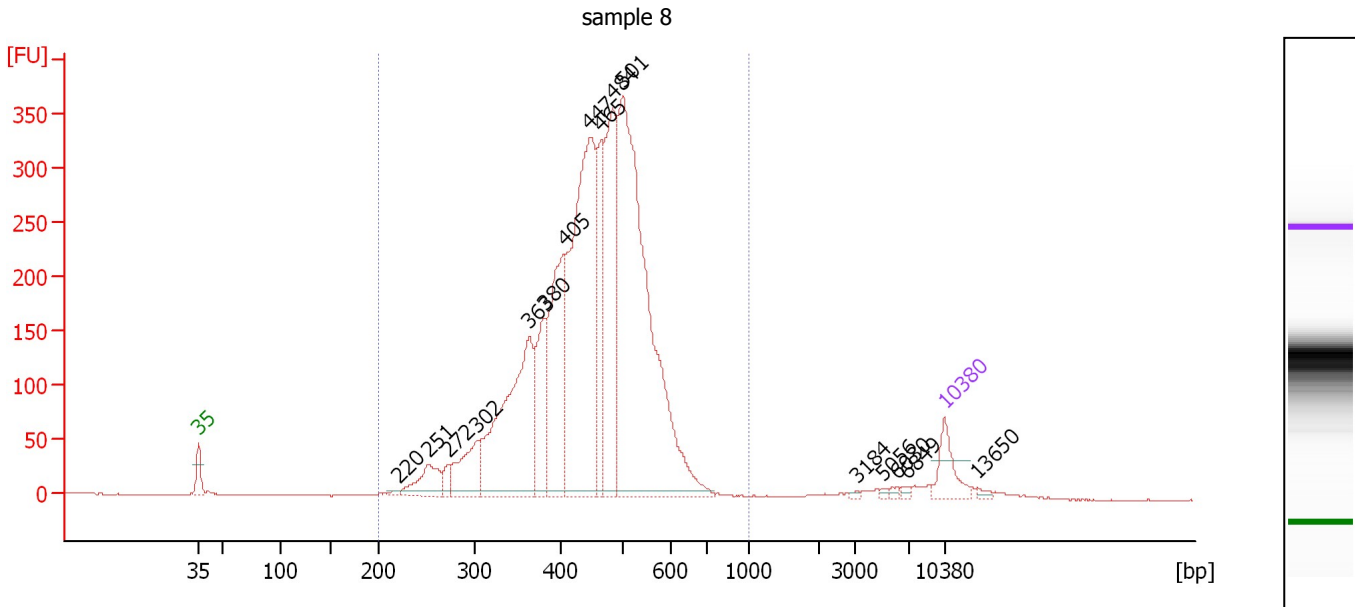
**Region table for sample 7 : sample 7**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	441	24,135.4	6,574.94	8,155.6	98	20.1

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

Number of peaks found: 16      Corr. Area 1: 4,885.6  
 Noise: 0.6

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	220	9.81	67.6	
3	251	126.72	765.0	
4	272	35.15	195.8	
5	302	172.64	865.4	
6	363	680.06	2,838.9	
7	380	232.36	925.7	
8	405	477.20	1,787.3	
9	447	1,054.32	3,577.2	
10	465	267.24	870.9	
11	484	535.95	1,677.0	
12	501	1,549.58	4,685.7	
13	3,184	4.46	2.1	
14	5,056	6.03	1.8	
15	6,030	7.48	1.9	
16	6,849	8.03	1.8	
17	10,380	75.00	10.9	Upper Marker
18	13,650	0.00	0.0	

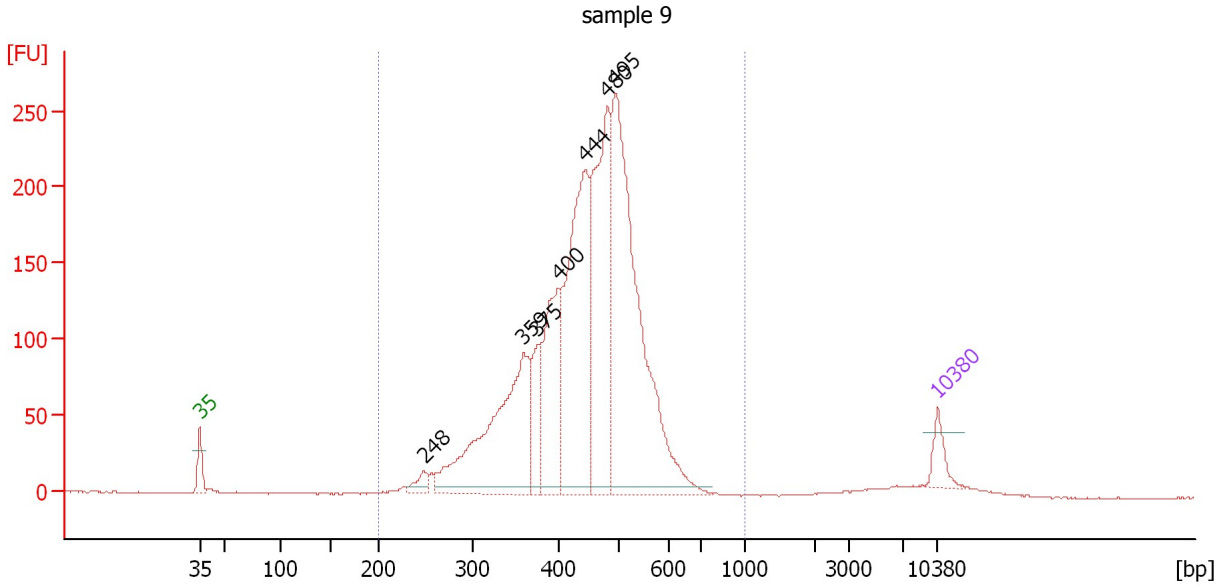
**Region table for sample 8 : sample 8**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	450	18,287.4	5,130.25	4,885.6	98	18.8

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

Number of peaks found: 7                      Corr. Area 1: 3,091.1  
 Noise: 0.3

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	248	69.79	426.7	
3	359	1,115.90	4,713.5	
4	375	227.54	919.4	
5	400	568.90	2,155.0	
6	444	1,199.23	4,090.4	
7	480	1,052.21	3,318.0	
8	495	1,842.81	5,644.8	
9	10,380	75.00	10.9	Upper Marker

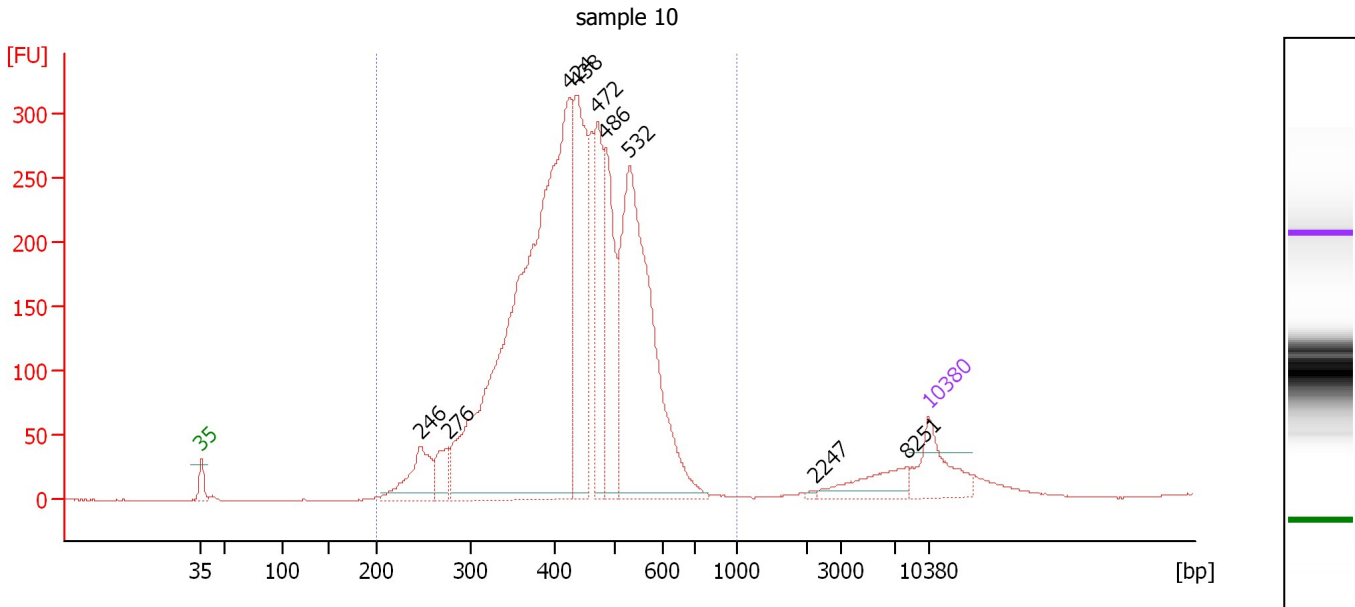
**Region table for sample 9 : sample 9**

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	445	22,119.5	6,162.28	3,091.1	98	18.1

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

Number of peaks found: 9                      Corr. Area 1: 5,002.4  
 Noise: 0.4

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	246	125.60	774.4	
3	276	59.09	324.5	
4	424	1,475.59	5,267.6	
5	438	354.94	1,228.1	
6	472	214.55	688.7	
7	486	239.45	747.3	
8	532	676.66	1,927.5	
9	2,247	3.07	2.1	
10	8,251	56.87	10.4	
11	10,380	75.00	10.9	Upper Marker

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

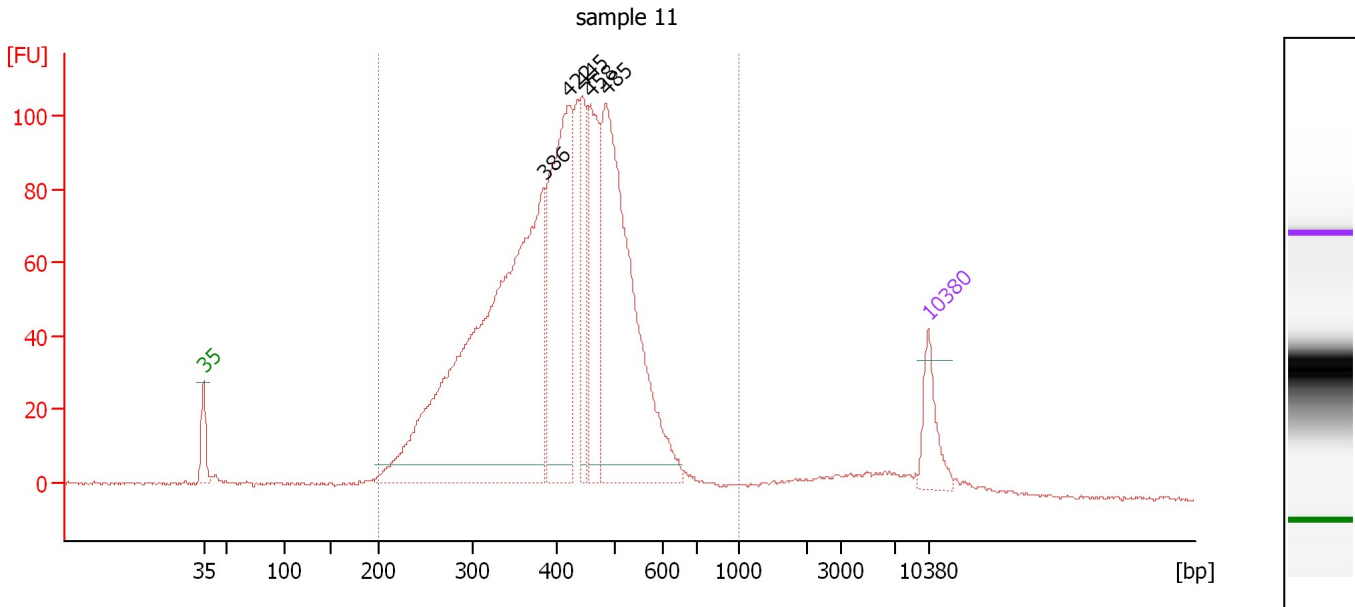
From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	438	12,306.1	3,325.96	5,002.4	97	20.5



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

Number of peaks found: 5                      Corr. Area 1: 1,932.2  
 Noise: 0.5

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

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	386	1,479.55	5,806.4	
3	422	583.74	2,097.1	
4	445	175.64	597.8	
5	458	276.16	914.0	
6	485	837.73	2,618.1	
7	10,380	75.00	10.9	Upper Marker

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

From [bp]	To [bp]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Co Corr. lor Area	% of Total	Size distribution in CV [%]
200	1,000	414	15,494.6	3,903.99	1,932.2	94	23.2

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-18\2014-06-18\_002.xad

Created: 6/18/2014 2:22:37 PM  
Modified: 6/18/2014 3:03:59 PM

**Gel Image**