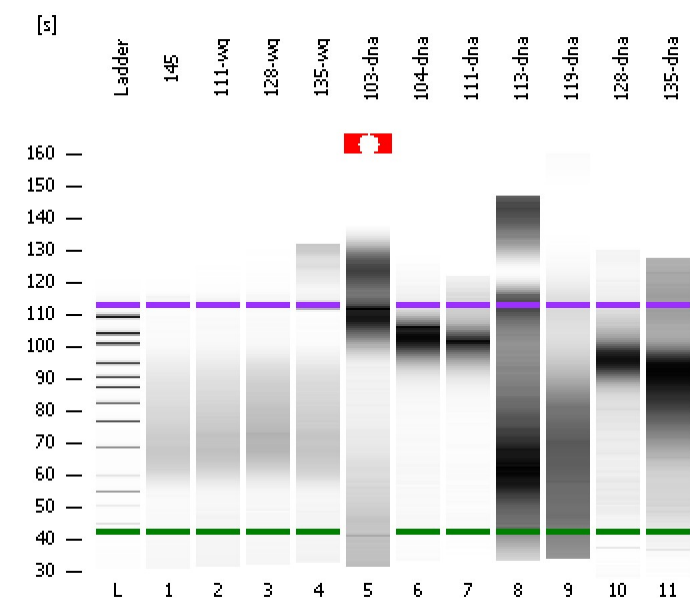


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

### Electrophoresis File Run Summary



#### Instrument Information:

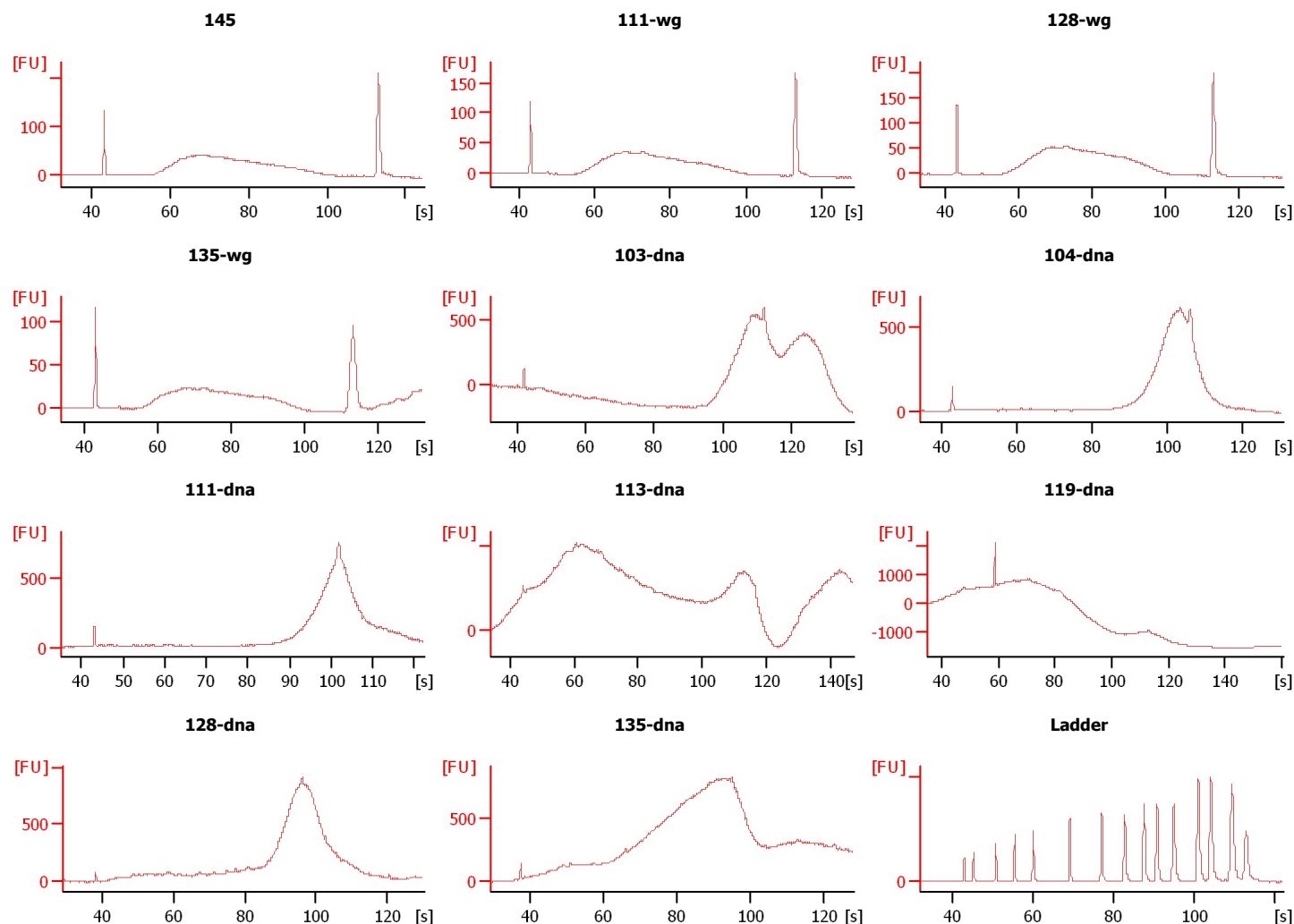
Instrument Name: DE72902486      Firmware: C.01.069  
Serial#: DE72902486      Type: G2939A

#### 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: 1.0  
Assay Comments: Copyright © 2003-2009 Agilent Technologies

#### Chip Information:

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



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

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

Sample Name	Sample Comment	Rest. Digest	Stat us	Observation	Result Label	Result Color
145		<input type="checkbox"/>	✓			
111-wg		<input type="checkbox"/>	✓			
128-wg		<input type="checkbox"/>	✓			
135-wg		<input type="checkbox"/>	✓			
103-dna		<input type="checkbox"/>	✓			
104-dna		<input type="checkbox"/>	✓			
111-dna		<input type="checkbox"/>	✓			
113-dna		<input type="checkbox"/>	✓			
119-dna		<input type="checkbox"/>	✓			
128-dna		<input type="checkbox"/>	✓			
135-dna		<input type="checkbox"/>	✓			

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

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

## 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

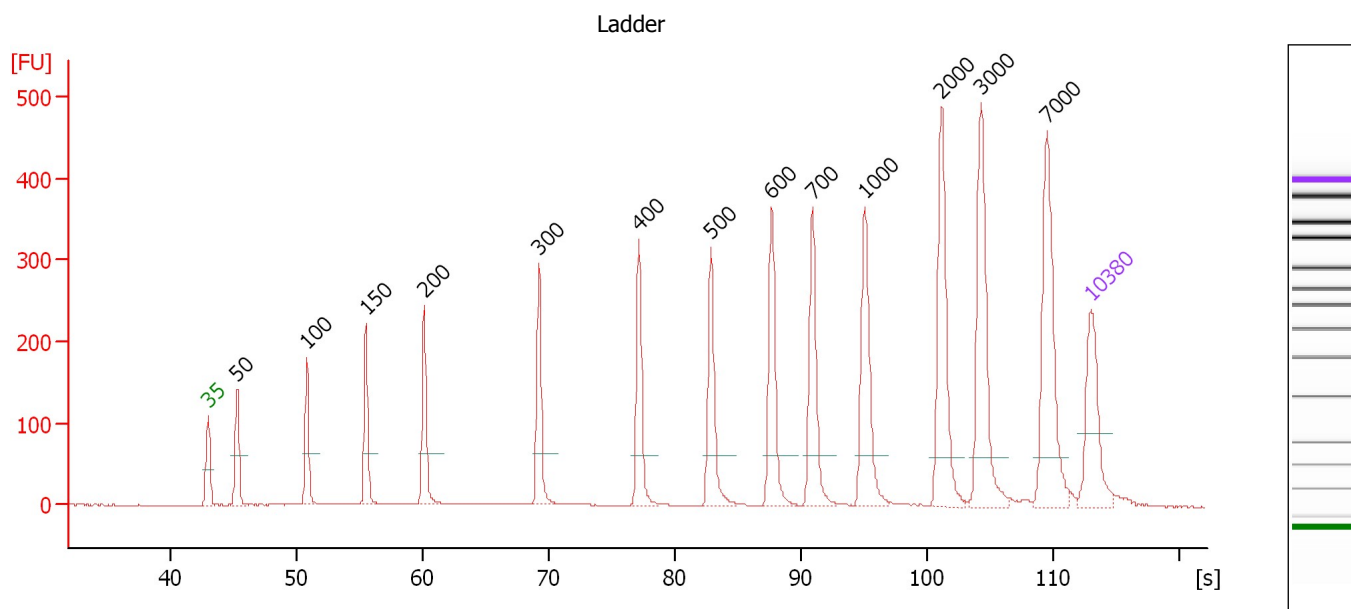
### Ladder

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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### Electropherogram Summary



### Setpoint Deviations for sample 12 : Ladder

Height Threshold [FU] : 20      Baseline Plateau [s] : 0.3  
 Area Threshold : 0

### Overall Results for Ladder

Noise: 0.3

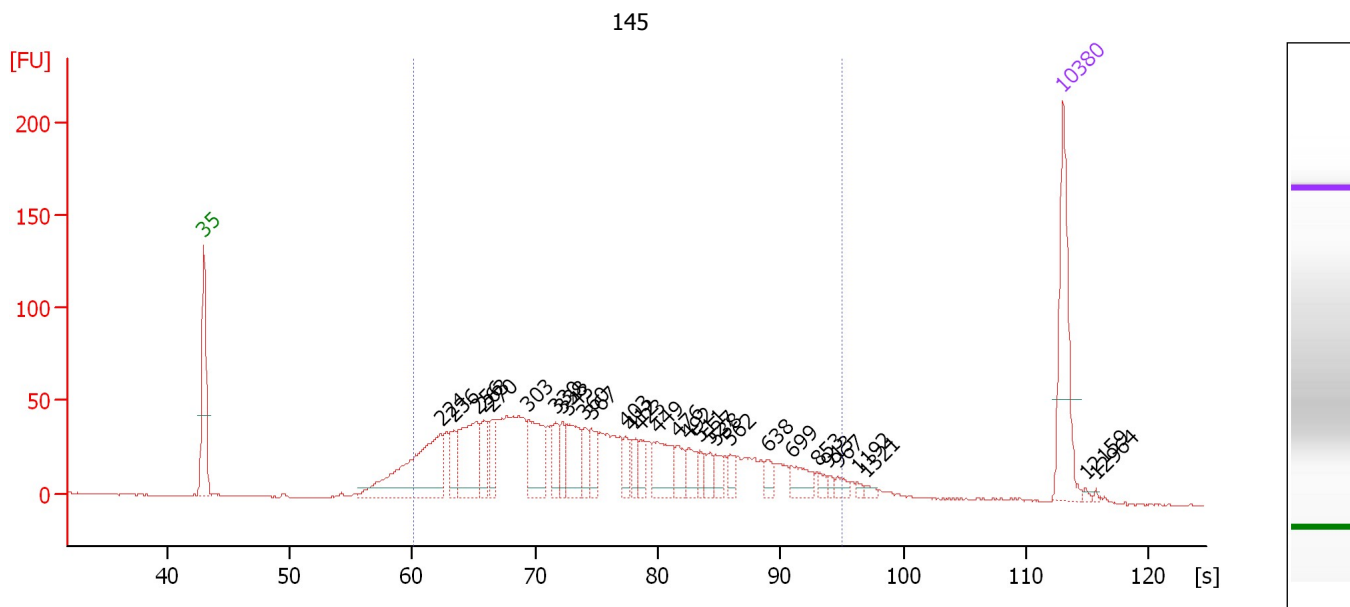
### Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
 Modified: 12/5/2016 4:39:16 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 1 : 145

Number of peaks found: 30      Corr. Area 1: 1,512.8  
 Noise: 0.3

### Peak table for sample 1 : 145

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	224	157.91	1,068.0	
3	236	30.27	194.3	
4	256	91.34	539.9	
5	263	28.09	161.8	
6	270	28.30	158.9	
7	303	66.69	333.5	
8	330	24.68	113.2	
9	338	22.61	101.4	
10	343	45.14	199.6	
11	360	20.05	84.5	
12	367	26.45	109.3	
13	403	15.86	59.6	
14	412	16.47	60.6	
15	423	15.96	57.1	
16	449	43.17	145.8	
17	476	19.25	61.3	
18	492	19.81	61.0	
19	511	11.67	34.6	
20	527	12.63	36.3	
21	538	12.83	36.1	
22	562	11.49	31.0	
23	638	10.61	25.2	
24	699	21.62	46.9	
25	853	6.18	11.0	
26	913	4.15	6.9	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

**Electropherogram Summary Continued ...****... Peak table for sample 1 : 145**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	967	7.25	11.3	
28	1,192	2.68	3.4	
29	1,321	3.12	3.6	
30	10,380	75.00	10.9	Upper Marker
31	12,159	0.00	0.0	
32	12,964	0.00	0.0	

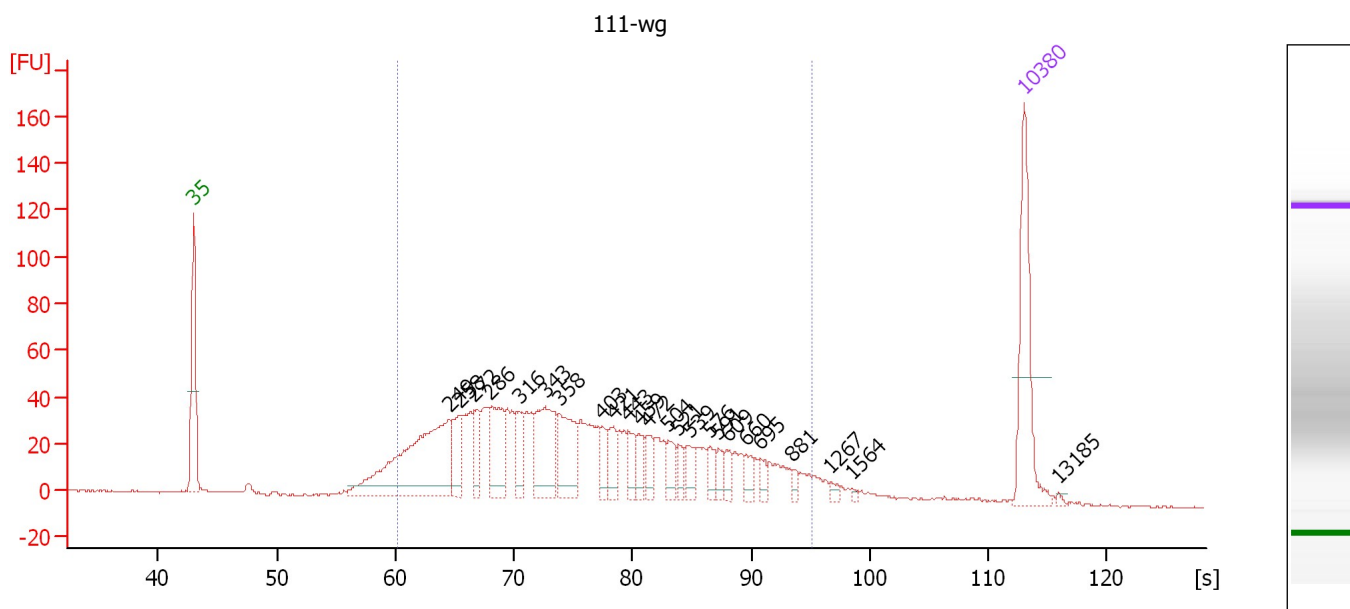
**Region table for sample 1 : 145**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,512.8	89	405	40.5	1,039.74	4,719.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
 Modified: 12/5/2016 4:39:16 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 2 : 111-wg

Number of peaks found: 24      Corr. Area 1: 1,321.9  
 Noise: 0.3

### Peak table for sample 2 : 111-wg

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	249	217.69	1,325.0	
3	258	38.10	223.8	
4	272	28.84	160.7	
5	286	66.40	351.9	
6	316	29.66	142.1	
7	343	77.88	344.0	
8	358	61.53	260.5	
9	403	17.48	65.7	
10	421	22.29	80.2	
11	443	21.73	74.4	
12	459	17.46	57.6	
13	472	16.99	54.5	
14	504	17.06	51.3	
15	521	12.04	35.0	
16	539	17.72	49.8	
17	576	12.99	34.2	
18	591	12.21	31.3	
19	609	10.39	25.9	
20	660	11.58	26.6	
21	695	9.27	20.2	
22	881	5.96	10.3	
23	1,267	3.77	4.5	
24	1,564	1.94	1.9	
25	10,380	75.00	10.9	Upper Marker
26	13,185	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

**Electropherogram Summary Continued ...****... Region table for sample 2 :****111-wg**

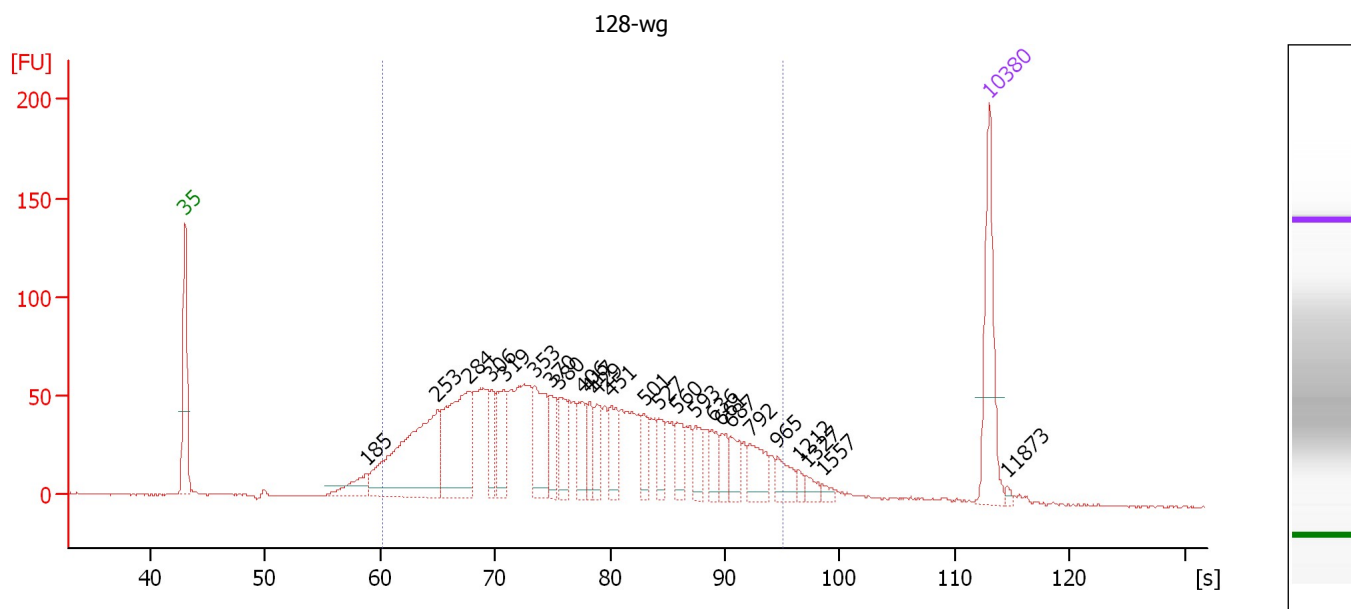
From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Co lor
200	1,000	1,321.9	90	411	39.8	1,021.23	4,553.4	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
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### Electropherogram Summary Continued ...



### Overall Results for sample 3 : 128-wg

Number of peaks found: 25      Corr. Area 1: 2,020.6  
 Noise: 0.4

### Peak table for sample 3 : 128-wg

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	185	32.22	263.5	
3	253	219.58	1,315.2	
4	284	163.81	874.3	
5	306	36.70	181.9	
6	319	59.76	283.6	
7	353	72.95	313.4	
8	370	41.41	169.7	
9	380	41.91	167.3	
10	406	36.42	135.9	
11	417	25.62	93.0	
12	429	28.93	102.2	
13	451	38.76	130.2	
14	501	21.28	64.3	
15	527	22.43	64.4	
16	560	24.39	65.9	
17	593	23.39	59.7	
18	636	20.80	49.5	
19	661	18.95	43.4	
20	687	24.04	53.0	
21	792	33.73	64.6	
22	965	21.16	33.2	
23	1,212	6.11	7.6	
24	1,327	8.79	10.0	
25	1,557	4.52	4.4	
26	10,380	75.00	10.9	Upper Marker

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

**Electropherogram Summary Continued ...****... Peak table for sample 3 : 128-wg**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	11,873	0.00	0.0	

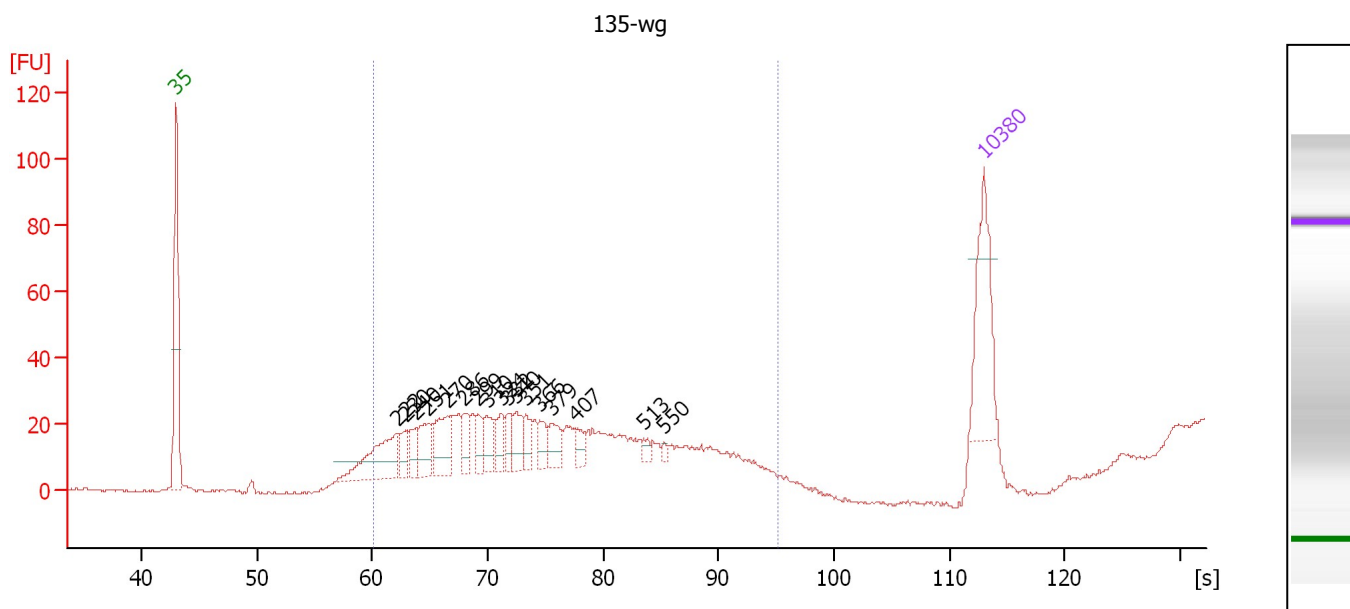
**Region table for sample 3 : 128-wg**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	2,020.6	91	429	39.2	1,406.60	6,019.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
 Modified: 12/5/2016 4:39:16 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 4 : 135-wg

Number of peaks found: 17      Corr. Area 1: 400.0  
 Noise: 0.4

### Peak table for sample 4 : 135-wg

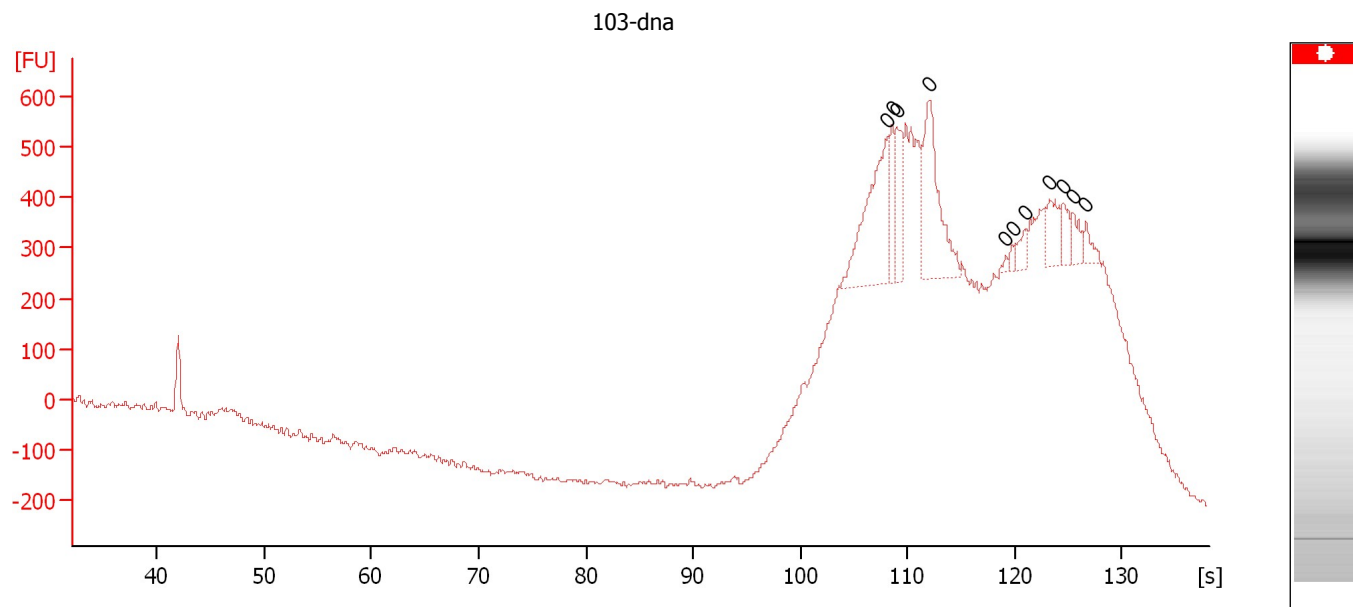
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	222	85.47	582.7	
3	230	24.95	164.4	
4	240	21.27	134.2	
5	251	38.08	229.4	
6	270	50.58	283.3	
7	286	23.39	124.0	
8	299	22.94	116.2	
9	310	24.16	118.2	
10	324	23.33	109.0	
11	332	18.59	84.9	
12	340	25.80	115.0	
13	351	19.76	85.2	
14	366	16.78	69.4	
15	379	22.92	91.7	
16	407	13.77	51.3	
17	513	6.50	19.2	
18	550	3.98	11.0	
19	10,380	75.00	10.9	Upper Marker

### Region table for sample 4 : 135-wg

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	400.0	97	333	26.6	460.44	2,288.2	Blue

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : 103-dna**

Number of peaks found: 0

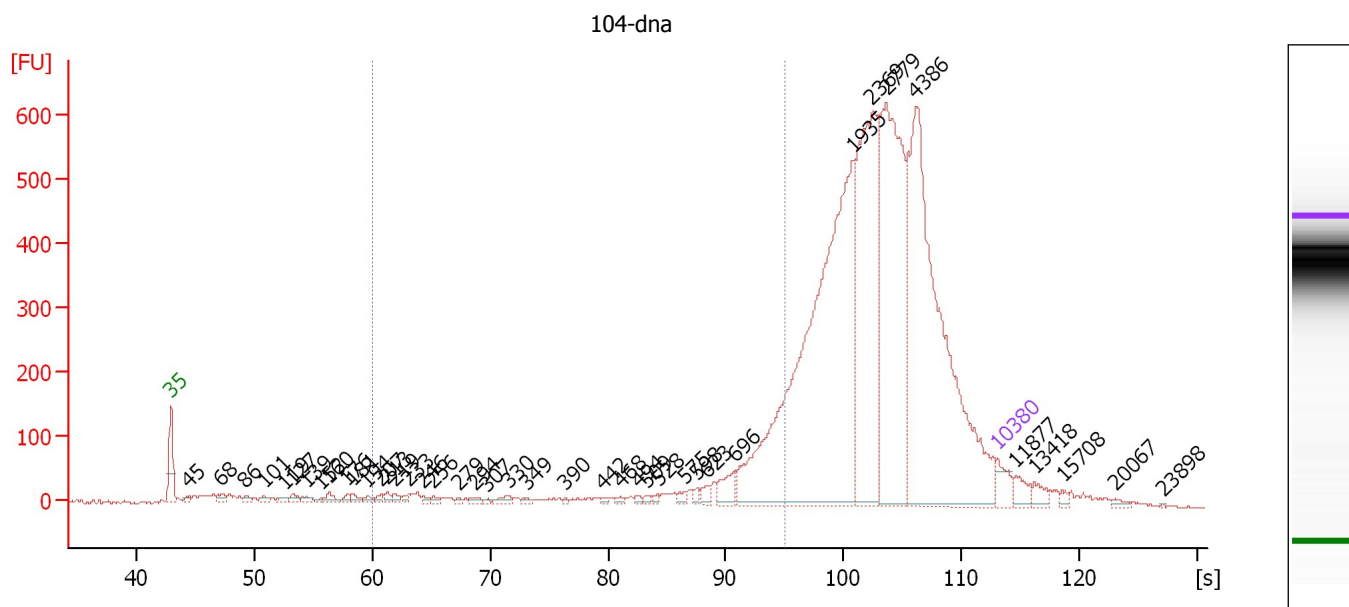
Noise: 6.7

**Peak table for sample 5 : 103-dna**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	0	0.00	0.0	
2	0	0.00	0.0	
3	0	0.00	0.0	
4	0	0.00	0.0	
5	0	0.00	0.0	
6	0	0.00	0.0	
7	0	0.00	0.0	
8	0	0.00	0.0	
9	0	0.00	0.0	
10	0	0.00	0.0	
11	0	0.00	0.0	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
 Modified: 12/5/2016 4:39:16 PM

**Electropherogram Summary Continued ...****Overall Results for sample 6 : 104-dna**

Number of peaks found: 42      Corr. Area 1: 1,000.4  
 Noise: 2.1

**Peak table for sample 6 : 104-dna**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	45	21.93	737.0	
3	68	41.27	921.6	
4	86	23.01	405.8	
5	101	29.39	439.4	
6	119	20.46	259.9	
7	127	34.29	410.4	
8	139	30.55	332.5	
9	152	12.10	120.7	
10	160	41.91	397.6	
11	176	23.25	200.3	
12	181	28.19	236.3	
13	194	25.20	196.3	
14	207	21.15	154.5	
15	213	27.02	192.3	
16	219	28.10	194.0	
17	233	19.81	128.8	
18	246	16.03	98.8	
19	256	19.11	113.3	
20	279	10.92	59.3	
21	294	23.12	119.1	
22	307	9.10	44.9	
23	330	32.68	150.1	
24	349	14.25	61.8	
25	390	8.66	33.7	
26	442	13.84	47.4	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
 Modified: 12/5/2016 4:39:16 PM

**Electropherogram Summary Continued ...****... Peak table for sample 6 : 104-dna**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	468	15.49	50.2	
28	494	14.75	45.2	
29	509	15.93	47.4	
30	528	13.42	38.5	
31	575	23.73	62.6	
32	598	20.94	53.0	
33	623	34.81	84.7	
34	696	103.07	224.5	
35	1,935	2,532.30	1,983.3	
36	2,369	1,229.32	786.1	
37	2,779	1,300.77	709.2	
38	4,386	2,033.45	702.4	
39	10,380	75.00	10.9	Upper Marker
40	11,877	0.00	0.0	
41	13,418	0.00	0.0	
42	15,708	0.00	0.0	
43	20,067	0.00	0.0	
44	23,898	0.00	0.0	

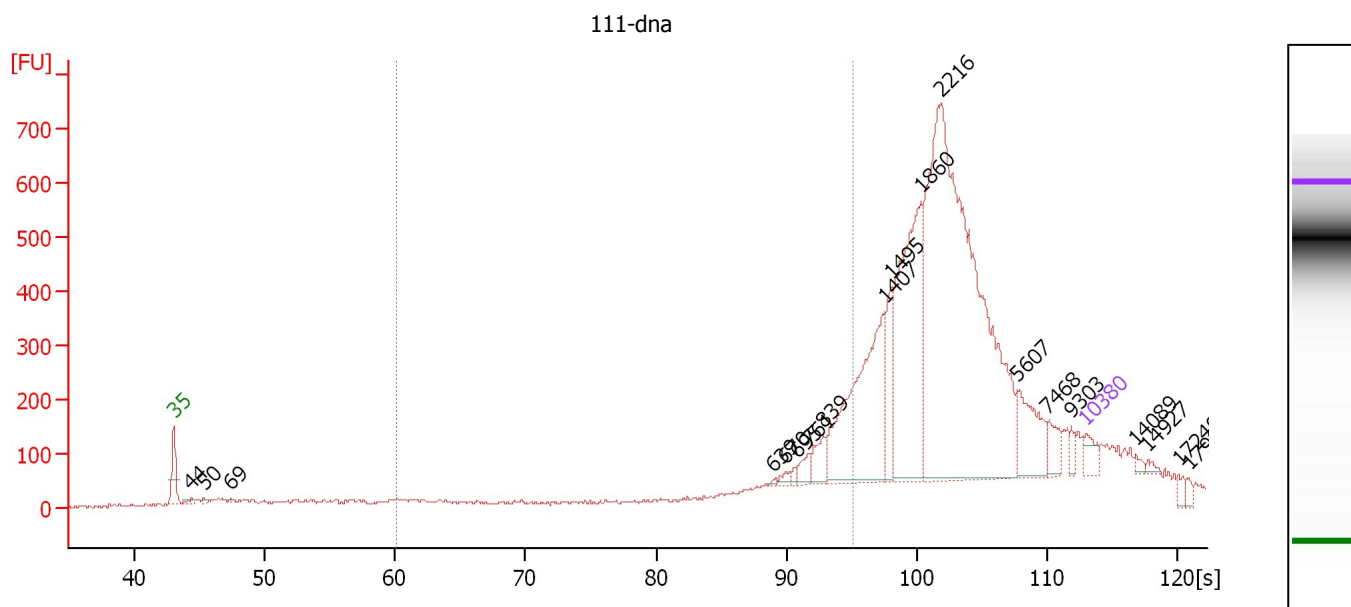
**Region table for sample 6 : 104-dna**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	1,000.4	12	683	34.7	1,263.99	3,849.9	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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 Modified: 12/5/2016 4:39:16 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : 111-dna

Number of peaks found: 19      Corr. Area 1: 678.1  
 Noise: 3.3

### Peak table for sample 7 : 111-dna

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	44	26.50	915.1	
3	50	18.03	545.7	
4	69	11.81	260.5	
5	639	8.55	20.3	
6	670	26.00	58.8	
7	695	22.20	48.4	
8	761	63.72	126.9	
9	839	118.21	213.6	
10	1,407	952.56	1,026.1	
11	1,495	229.01	232.2	
12	1,860	1,036.81	844.6	
13	2,216	2,966.08	2,027.9	
14	5,607	282.63	76.4	
15	7,468	100.89	20.5	
16	9,303	38.72	6.3	
17	10,380	75.00	10.9	Upper Marker
18	14,089	0.00	0.0	
19	14,927	0.00	0.0	
20	17,240	0.00	0.0	
21	17,998	0.00	0.0	

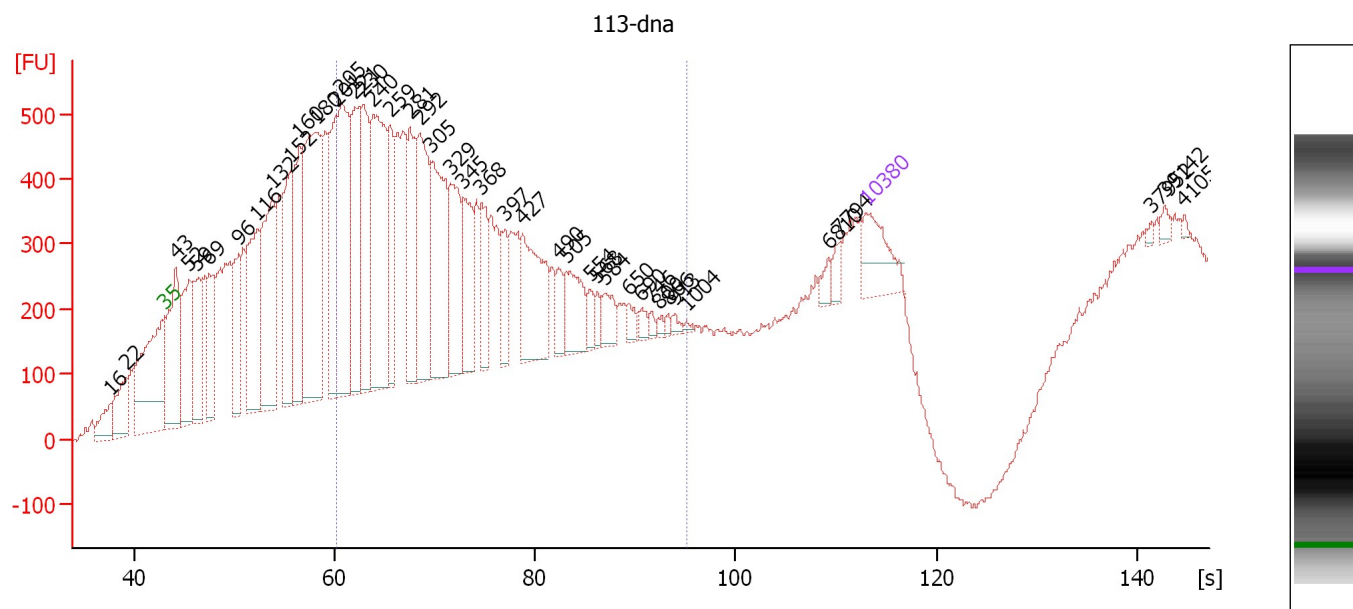
### Region table for sample 7 : 111-dna

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	678.1	9	830	16.1	753.35	1,487.7	Blue

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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 Modified: 12/5/2016 4:39:16 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 8 : 113-dna

Number of peaks found: 43      Corr. Area 1: 10,691.3  
 Noise: 9.9

### Peak table for sample 8 : 113-dna

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	16	0.00	0.0	
2	22	0.00	0.0	
3	35	125.00	5,411.3	Lower Marker
4	43	335.69	11,920.0	
5	52	250.77	7,318.5	
6	59	197.69	5,063.2	
7	69	172.53	3,772.4	
8	96	177.01	2,784.3	
9	116	335.45	4,395.9	
10	132	399.79	4,583.3	
11	152	273.98	2,738.8	
12	160	259.12	2,450.6	
13	180	567.57	4,783.4	
14	201	251.34	1,899.2	
15	205	366.82	2,708.1	
16	221	276.30	1,893.1	
17	230	253.22	1,668.3	
18	240	432.26	2,729.0	
19	259	155.59	910.7	
20	281	185.83	1,001.2	
21	292	263.53	1,368.2	
22	305	297.67	1,479.7	
23	329	175.98	810.6	
24	345	142.21	624.4	
25	368	98.42	405.4	
26	397	58.92	225.0	



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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**Electropherogram Summary Continued ...****... Peak table for sample 8 : 113-dna**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	427	190.56	675.7	
28	490	42.56	131.6	
29	505	98.14	294.5	
30	554	23.18	63.4	
31	568	19.71	52.6	
32	584	39.26	101.9	
33	650	19.68	45.9	
34	690	15.25	33.5	
35	746	8.48	17.2	
36	800	7.37	14.0	
37	866	6.03	10.6	
38	913	7.31	12.1	
39	1,004	3.42	5.2	
40	6,810	16.41	3.7	
41	7,794	17.78	3.5	
42	10,380	75.00	10.9	Upper Marker
43	37,952	0.00	0.0	
44	39,142	0.00	0.0	
45	41,056	0.00	0.0	

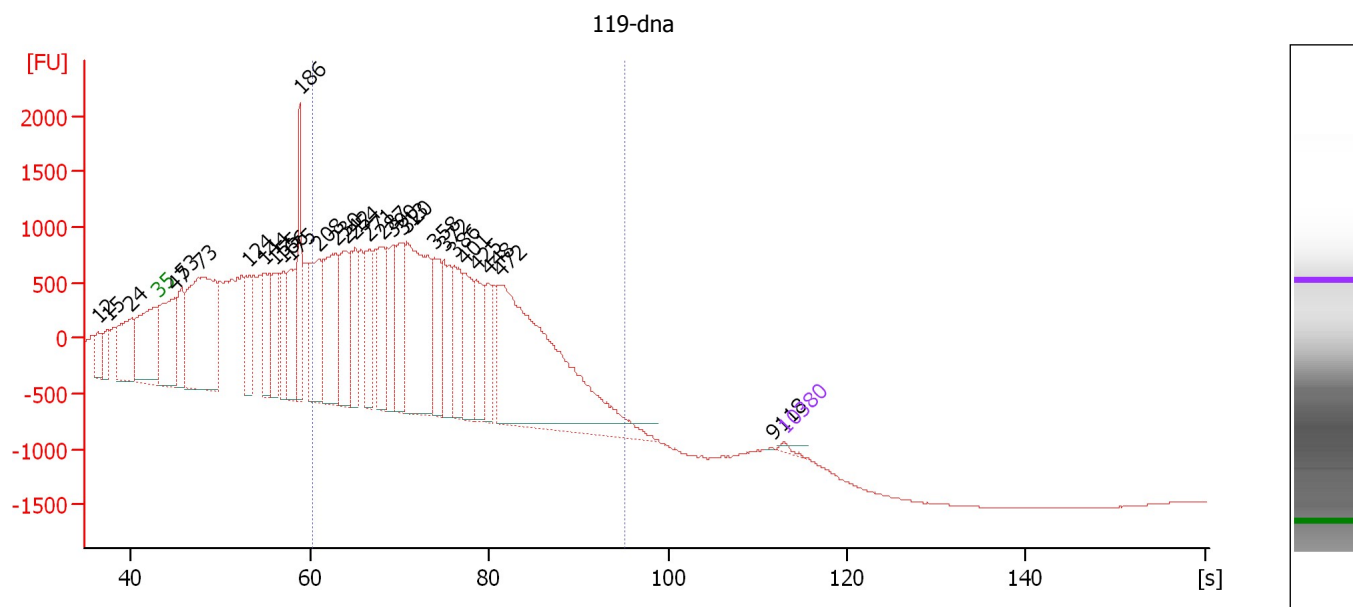
**Region table for sample 8 : 113-dna**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	10,691.3	51	339	37.0	3,778.21	19,415.8	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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 Modified: 12/5/2016 4:39:16 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 9 : 119-dna

Number of peaks found: 29      Corr. Area 1: 38,806.7  
 Noise: 1.9

### Peak table for sample 9 : 119-dna

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	12	0.00	0.0	
2	15	0.00	0.0	
3	24	0.00	0.0	
4	35	125.00	5,411.3	Lower Marker
5	47	4,632.98	150,635.3	
6	53	2,917.64	83,743.0	
7	73	11,058.54	230,794.6	
8	124	2,252.08	27,533.4	
9	144	3,057.10	32,126.6	
10	155	2,156.60	21,083.7	
11	166	2,110.83	19,285.5	
12	175	2,914.81	25,268.9	
13	186	3,216.37	26,252.6	
14	208	3,810.75	27,823.9	
15	230	5,037.58	33,224.0	
16	242	3,498.98	21,893.3	
17	254	2,197.23	13,111.2	
18	271	2,438.47	13,638.1	
19	287	3,009.71	15,875.5	
20	300	2,220.71	11,228.3	
21	313	2,936.44	14,213.8	
22	320	6,968.53	33,024.4	
23	358	2,348.43	9,927.4	
24	372	2,228.34	9,080.3	
25	386	2,222.02	8,722.7	
26	401	2,269.30	8,570.2	

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

**Electropherogram Summary Continued ...****... Peak table for sample 9 : 119-dna**

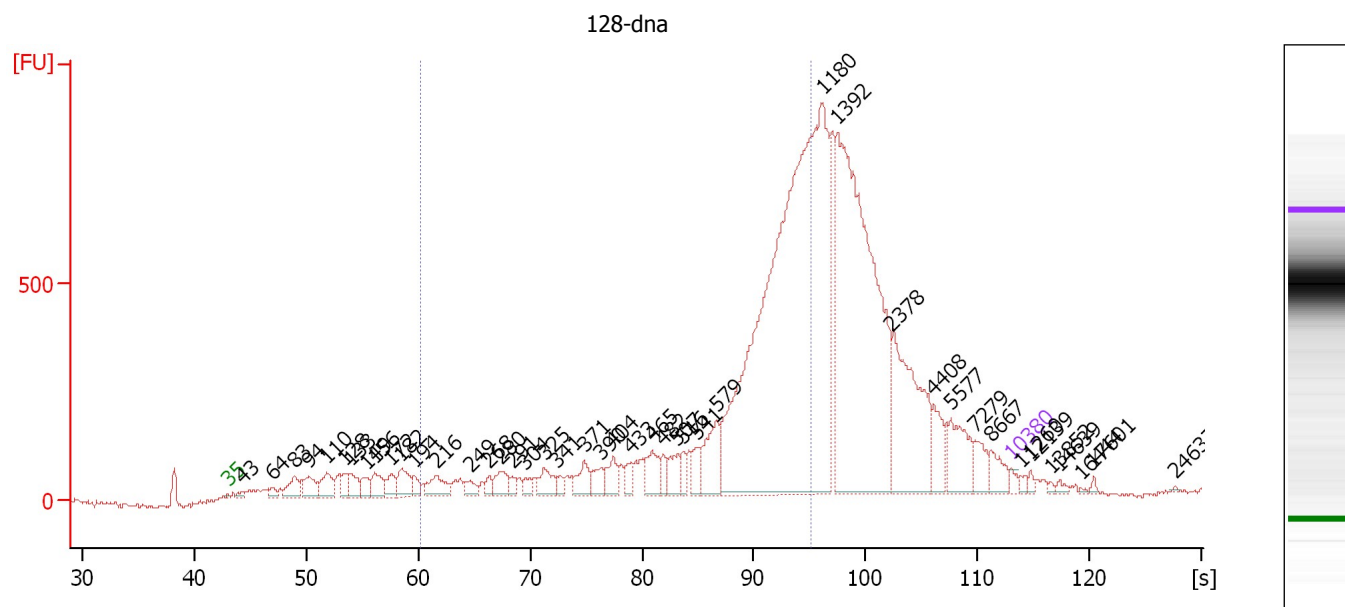
Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	425	2,056.74	7,330.9	
28	448	1,244.15	4,208.3	
29	472	13,010.47	41,779.1	
30	9,118	9.07	1.5	
31	10,380	75.00	10.9	Upper Marker

**Region table for sample 9 : 119-dna**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	38,806.7	63	374	33.2	45,557.93	212,910.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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**Electropherogram Summary Continued ...****Overall Results for sample 10 : 128-dna**

Number of peaks found: 44      Corr. Area 1: 6,333.6  
 Noise: 6.4

**Peak table for sample 10 : 128-dna**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	43	81.66	2,890.8	
3	64	123.66	2,917.7	
4	83	385.87	7,062.1	
5	94	381.97	6,127.7	
6	110	481.97	6,621.7	
7	128	221.26	2,626.5	
8	133	350.47	3,985.1	
9	149	258.77	2,639.1	
10	156	350.13	3,405.8	
11	172	258.01	2,269.5	
12	182	422.77	3,518.8	
13	194	174.42	1,359.5	
14	216	409.77	2,875.9	
15	249	189.95	1,155.4	
16	268	120.25	679.6	
17	280	333.17	1,805.0	
18	291	114.49	596.6	
19	304	132.61	661.2	
20	325	344.03	1,601.5	
21	341	111.19	494.8	
22	371	326.64	1,335.7	
23	390	232.97	905.7	
24	404	297.04	1,113.7	
25	433	191.30	670.0	
26	465	399.64	1,301.3	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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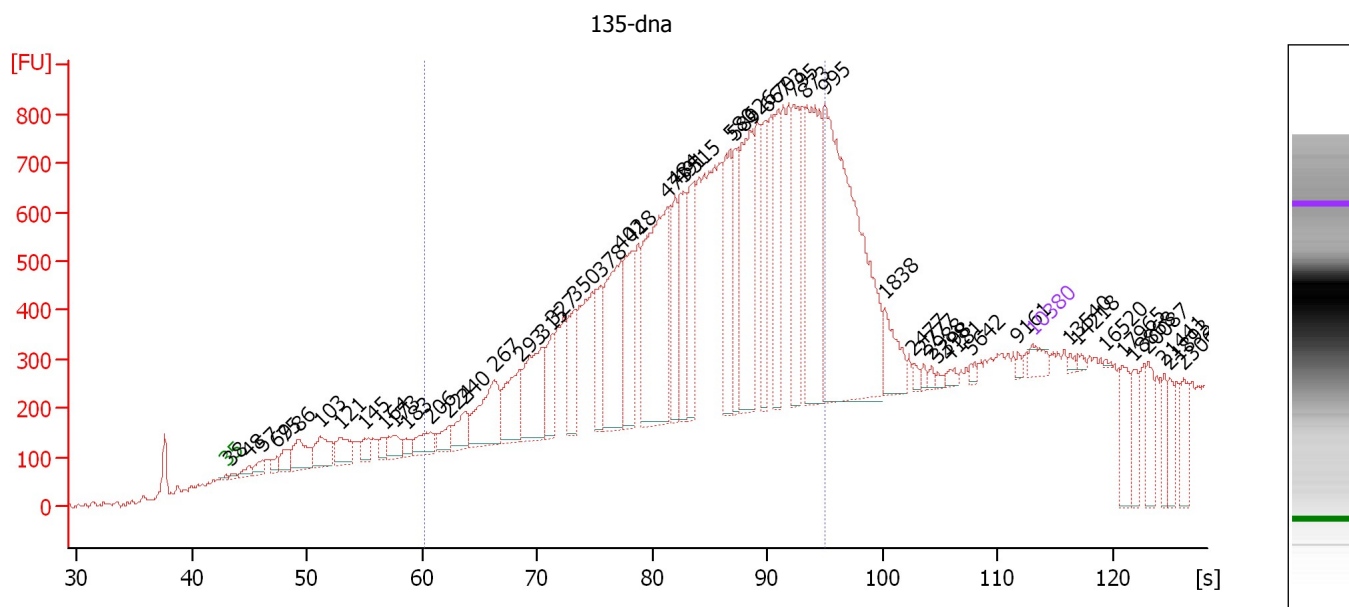
**Electropherogram Summary Continued ...****... Peak table for sample 10 : 128-dna**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	482	170.85	537.0	
28	507	310.01	927.3	
29	516	180.87	530.6	
30	541	281.97	789.2	
31	579	636.61	1,665.6	
32	1,180	11,659.99	14,973.6	
33	1,392	6,548.79	7,128.8	
34	2,378	1,910.90	1,217.6	
35	4,408	367.39	126.3	
36	5,577	604.99	164.4	
37	7,279	264.24	55.0	
38	8,667	245.28	42.9	
39	10,380	75.00	10.9	Upper Marker
40	11,260	0.00	0.0	
41	12,139	0.00	0.0	
42	13,852	0.00	0.0	
43	14,639	0.00	0.0	
44	16,444	0.00	0.0	
45	17,601	0.00	0.0	
46	24,637	0.00	0.0	

**Region table for sample 10 : 128-dna**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	6,333.6	43	677	31.9	15,772.42	44,704.8	

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Number of peaks found:	52	Corr. Area 1:	15,925.3
Noise:	5.9		

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.2	Lower Marker
2	38	24.32	976.5	
3	48	69.32	2,184.5	
4	57	98.12	2,587.6	
5	69	69.81	1,536.6	
6	75	139.27	2,823.8	
7	86	303.63	5,369.4	
8	103	301.26	4,432.1	
9	121	254.16	3,171.9	
10	145	99.09	1,036.8	
11	164	83.39	771.2	
12	173	158.74	1,387.0	
13	183	67.01	553.4	
14	206	166.05	1,220.1	
15	224	110.89	751.1	
16	240	208.97	1,321.4	
17	267	532.61	3,018.0	
18	293	425.19	2,201.8	
19	315	579.54	2,787.8	
20	327	264.79	1,228.1	
21	350	349.23	1,511.3	
22	378	306.61	1,228.2	
23	402	789.25	2,978.3	
24	418	533.75	1,935.4	
25	473	1,352.76	4,336.7	
26	484	364.41	1,140.6	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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**Electropherogram Summary Continued ...****... Peak table for sample 11 : 135-dna**

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
27	491	487.82	1,504.1	
28	515	460.04	1,353.4	
29	580	518.76	1,355.2	
30	589	378.35	973.8	
31	626	832.50	2,013.6	
32	667	408.45	928.1	
33	703	420.65	906.4	
34	795	526.20	1,003.3	
35	873	956.17	1,660.3	
36	995	2,041.94	3,110.9	
37	1,838	211.89	174.7	
38	2,477	28.72	17.6	
39	2,777	21.52	11.7	
40	2,988	20.42	10.4	
41	3,398	17.58	7.8	
42	4,181	29.45	10.7	
43	5,642	25.75	6.9	
44	9,161	20.74	3.4	
45	10,380	75.00	10.9	Upper Marker
46	13,540	0.00	0.0	
47	14,218	0.00	0.0	
48	16,520	0.00	0.0	
49	17,965	0.00	0.0	
50	18,868	0.00	0.0	
51	20,087	0.00	0.0	
52	21,441	0.00	0.0	
53	21,893	0.00	0.0	
54	23,066	0.00	0.0	

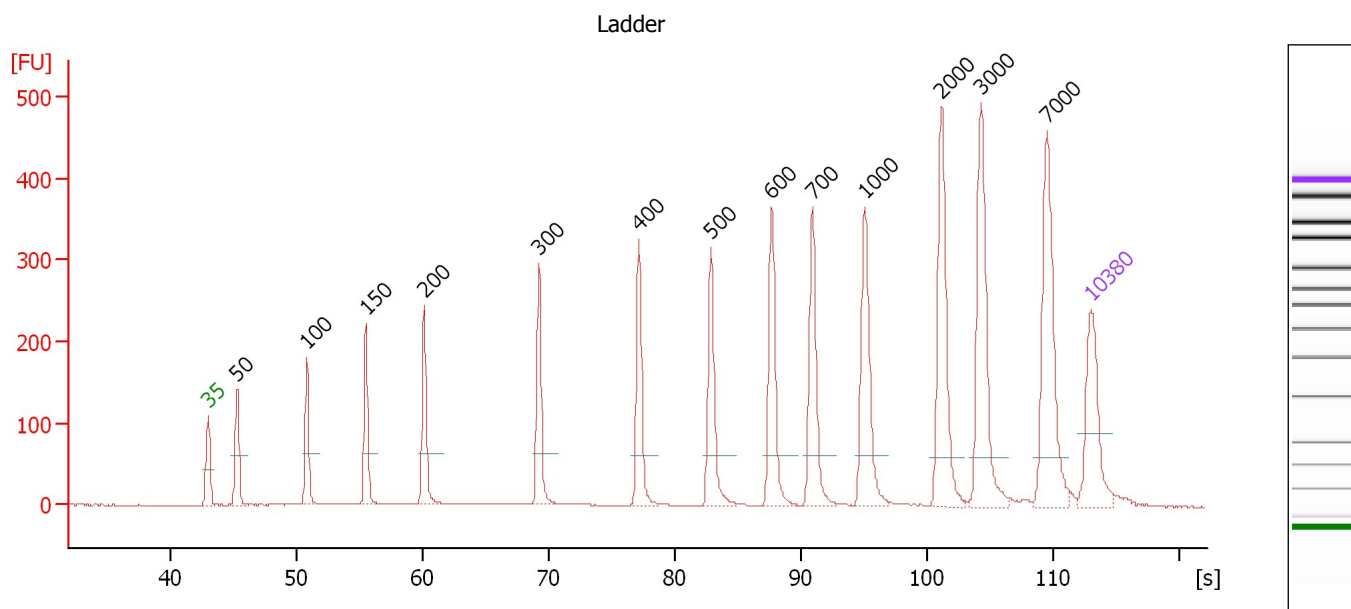
**Region table for sample 11 : 135-dna**

From [bp]	To [bp]	Corr. Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [pg/μl]	Molarity [pmol/l]	Color
200	1,000	15,925.3	72	551	35.0	17,422.84	58,192.7	

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

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### Electropherogram Summary Continued ...



### Setpoint Deviations for sample 12 : Ladder

Height Threshold [FU] : 20      Baseline Plateau [s] : 0.3  
 Area Threshold : 0

### Overall Results for Ladder

Noise: 0.3

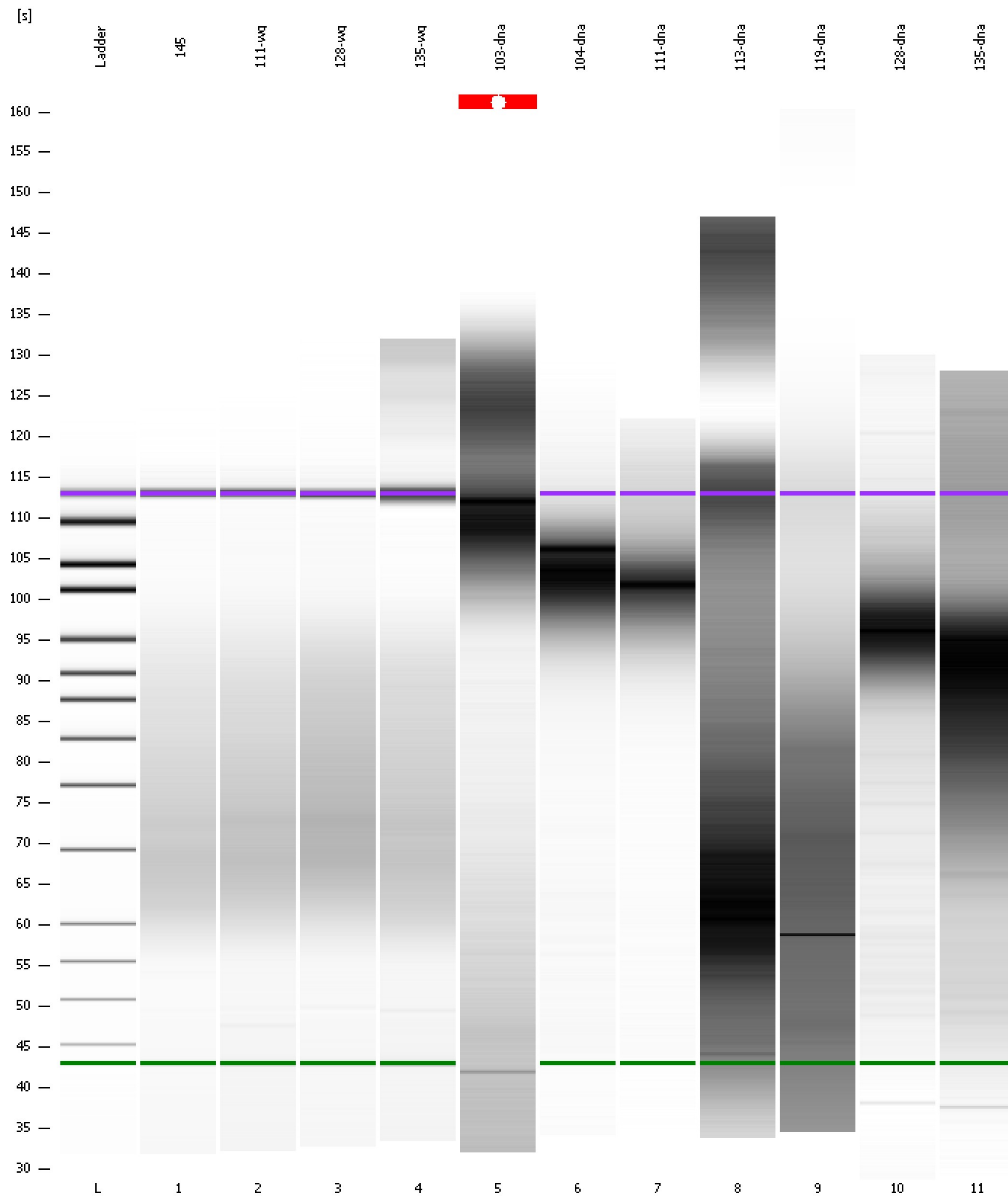
### Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
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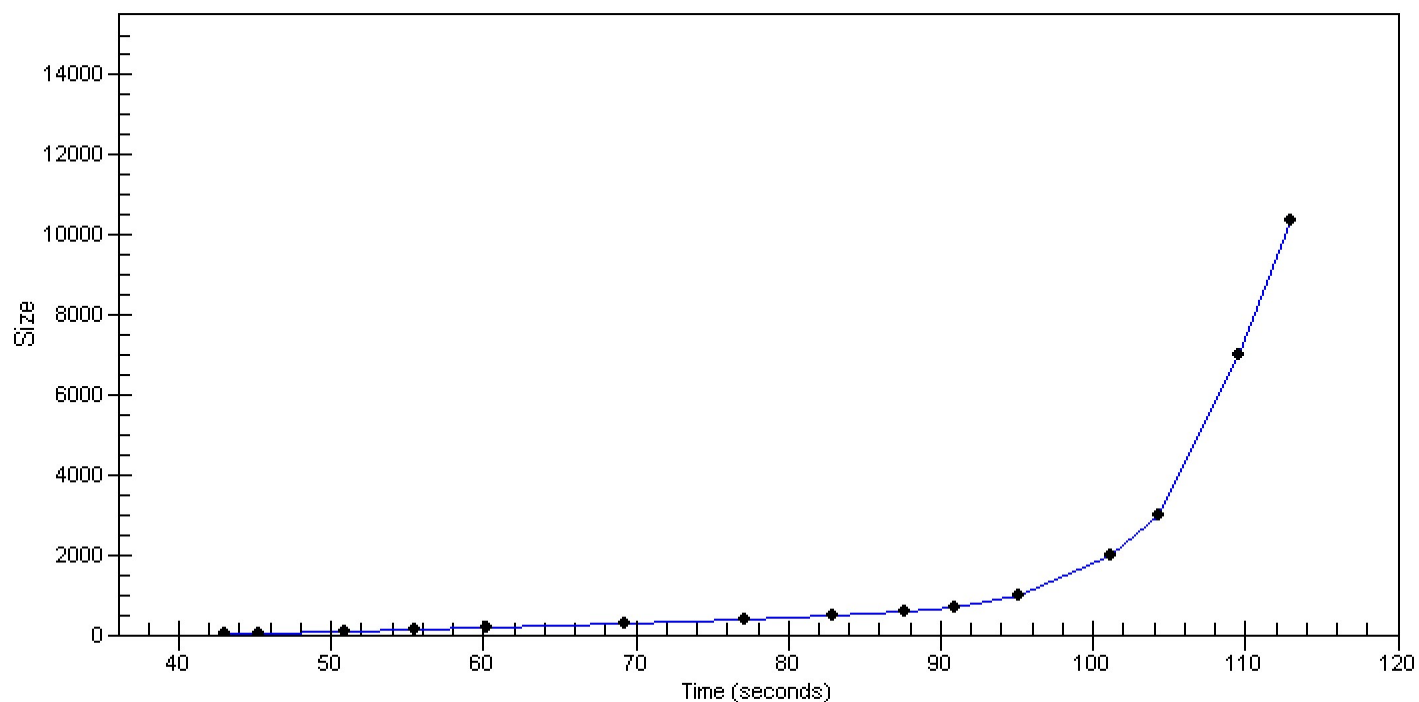
**Gel Image**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad

Created: 12/5/2016 3:57:57 PM  
Modified: 12/5/2016 4:39:16 PM

## Curves

### Standard Curve



Assay Class: High Sensitivity DNA Assay Created: 12/5/2016 3:57:57 PM  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE72902486\_2016-12-05\_15-57-57.xad Modified: 12/5/2016 4:39:16 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time Stamp	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		12/5/2016 4:39:10 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2016-12-05\2100 expert_High Sensitivity DNA Assay_DE72902486_2016-12-05_15-57-57.xad)		Instrument	Run		12/5/2016 3:57:58 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Product Number : G2939A		Instrument	Run		12/5/2016 3:57:58 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Name :		Instrument	Run		12/5/2016 3:57:58 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Vendor : Agilent Technologies		Instrument	Run		12/5/2016 3:57:58 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Serial# : DE72902486		Instrument	Run		12/5/2016 3:57:58 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Firmware : C.01.069		Instrument	Run		12/5/2016 3:57:58 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01
Cartridge : Electrode		Instrument	Run		12/5/2016 3:57:57 PM	(GMT --08:00) Pacific Standard Time	Administrator	DATASYSTEM01