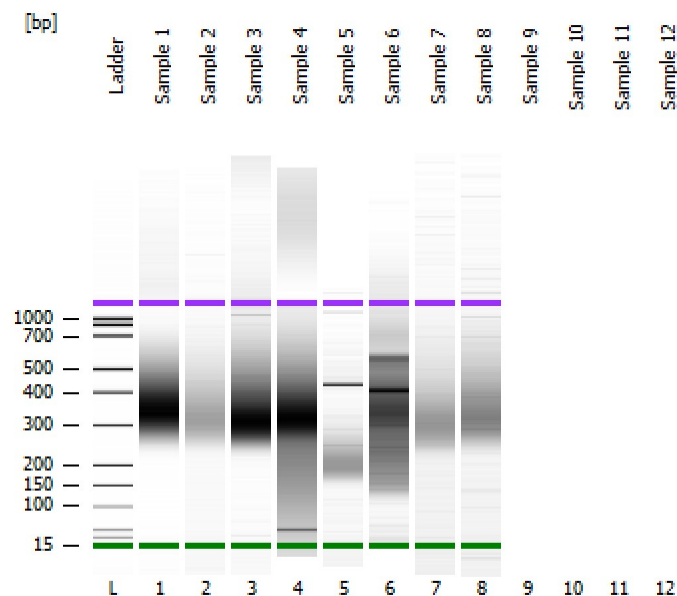


Assay Class: DNA 1000  
Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
Modified: 9/14/2016 4:01:07 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: Chodosh  
Serial#: DE54700243  
Firmware: C.01.069  
Type: G2939A

#### Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 1000 Series II.xsy

Assay Class: DNA 1000

Version: 2.3

Assay Comments: DNA Analysis 25 -1000 bp

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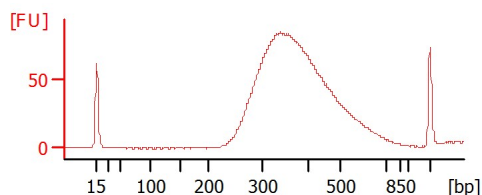
#### Chip Information:

Chip Lot #:

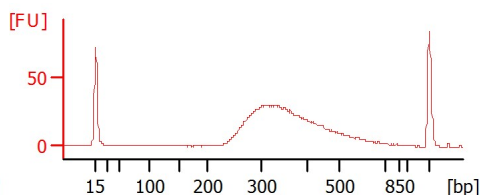
Reagent Kit Lot #:

Chip Comments:

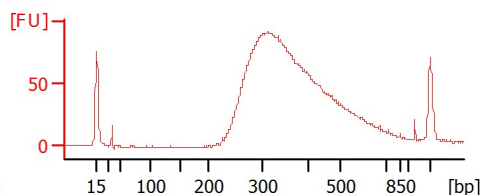
Sample 1



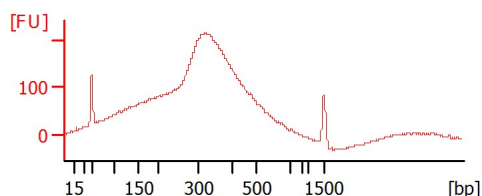
Sample 2



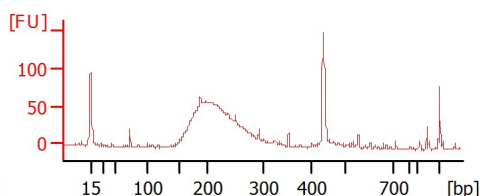
Sample 3



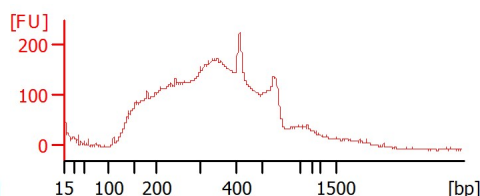
Sample 4



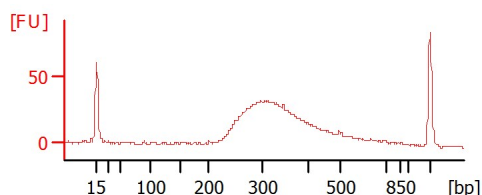
Sample 5



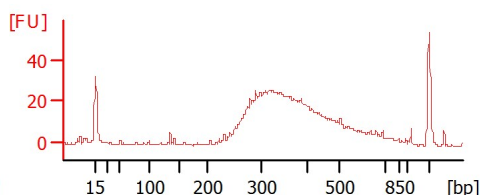
Sample 6



Sample 7



Sample 8



Assay Class: DNA 1000  
Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
Modified: 9/14/2016 4:01:07 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"/>				
Sample 12		<input type="checkbox"/>				
Ladder		<input type="checkbox"/>	✓			

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

Assay Class: DNA 1000  
Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
Modified: 9/14/2016 4:01:07 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 30  
Maximum Visible Range [s] : 129  
Start Analysis Time Range [s] : 30  
End Analysis Time Range [s] : 128.95  
Ladder Concentration [ng/μl] : 44  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [ng/μl] : 4.2  
Upper Marker Concentration [ng/μl] : 2.1  
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] : 30  
Integration End Time [s] : 128.95  
Slope Threshold : 0.5  
Height Threshold [FU] : 20  
Area Threshold : 0.1  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

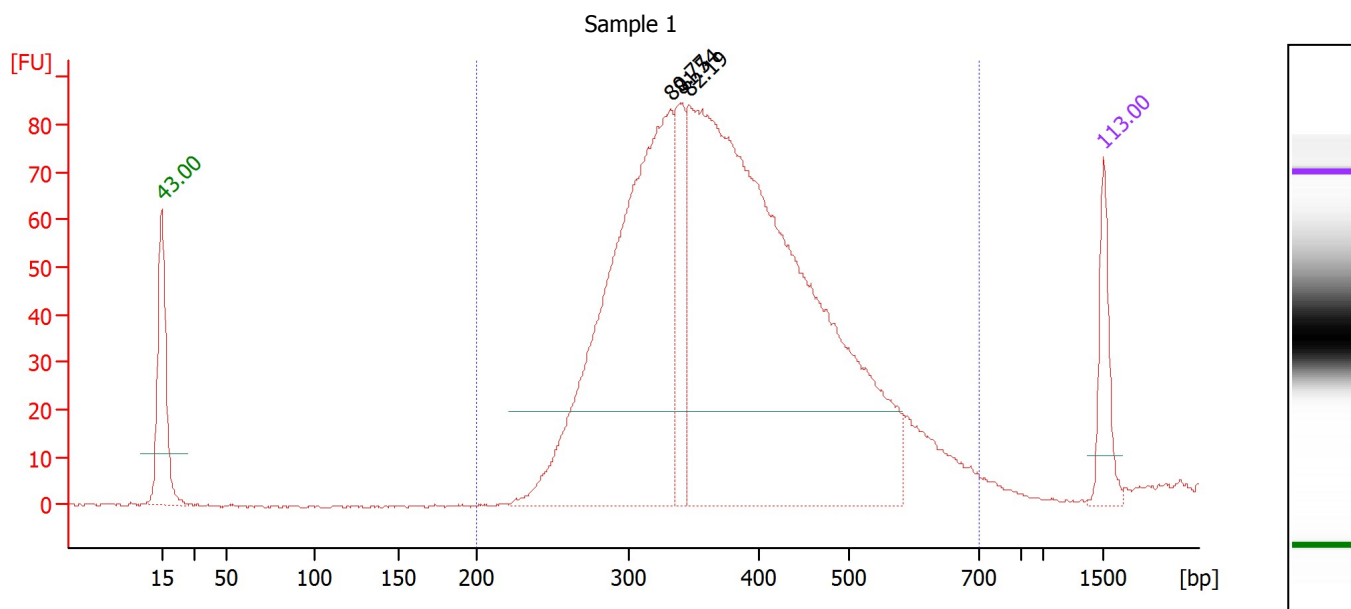
### Ladder

Ladder Peak	Size	Area
1	15	25
2	25	26
3	50	34
4	100	41
5	150	45
6	200	52
7	300	63
8	400	76
9	500	83
10	700	88
11	850	86
12	1000	90
13	1500	52

Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

### Electropherogram Summary



### Overall Results for sample 1 : Sample 1

Number of peaks found: 3      Area 1: 1,225.8

### Peak table for sample 1 : Sample 1

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	331	23.10	105.7	
3	339	3.87	17.3	
4	346	40.76	178.4	
5	1,500	2.10	2.1	Upper Marker

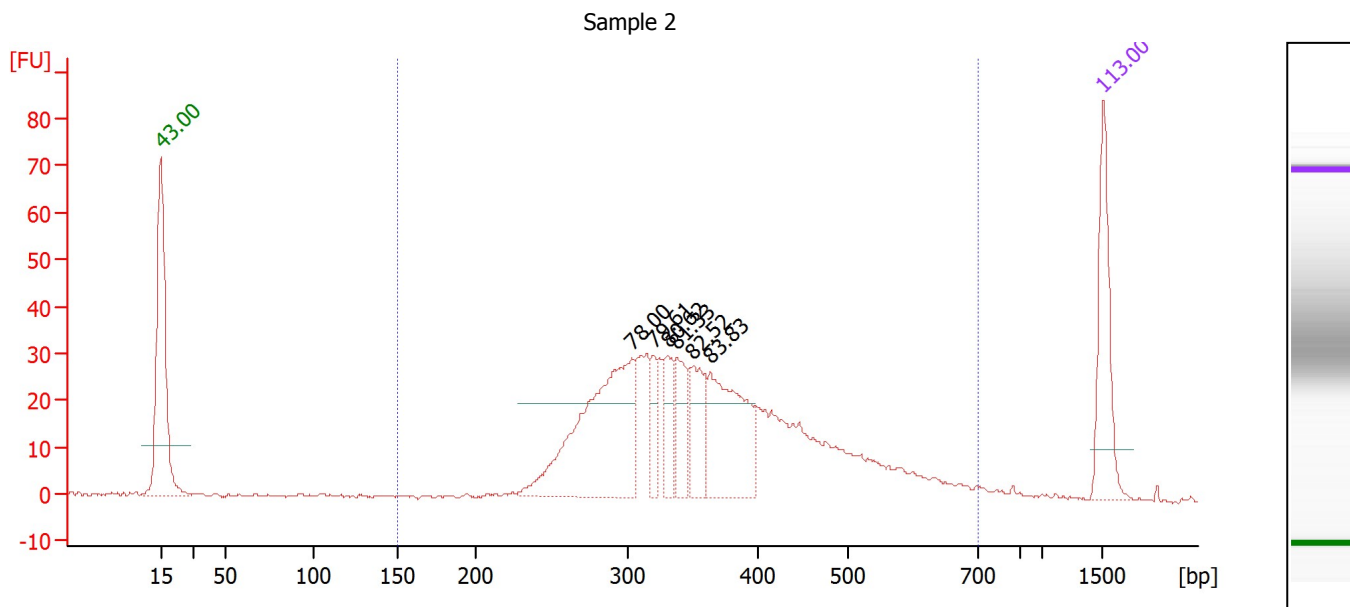
### Region table for sample 1 : Sample 1

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Color
200	700	1,225.8	94	387	23.5	67.32	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 2 : Sample 2

Number of peaks found: 6 Area 1: 429.4

### Peak table for sample 2 : Sample 2

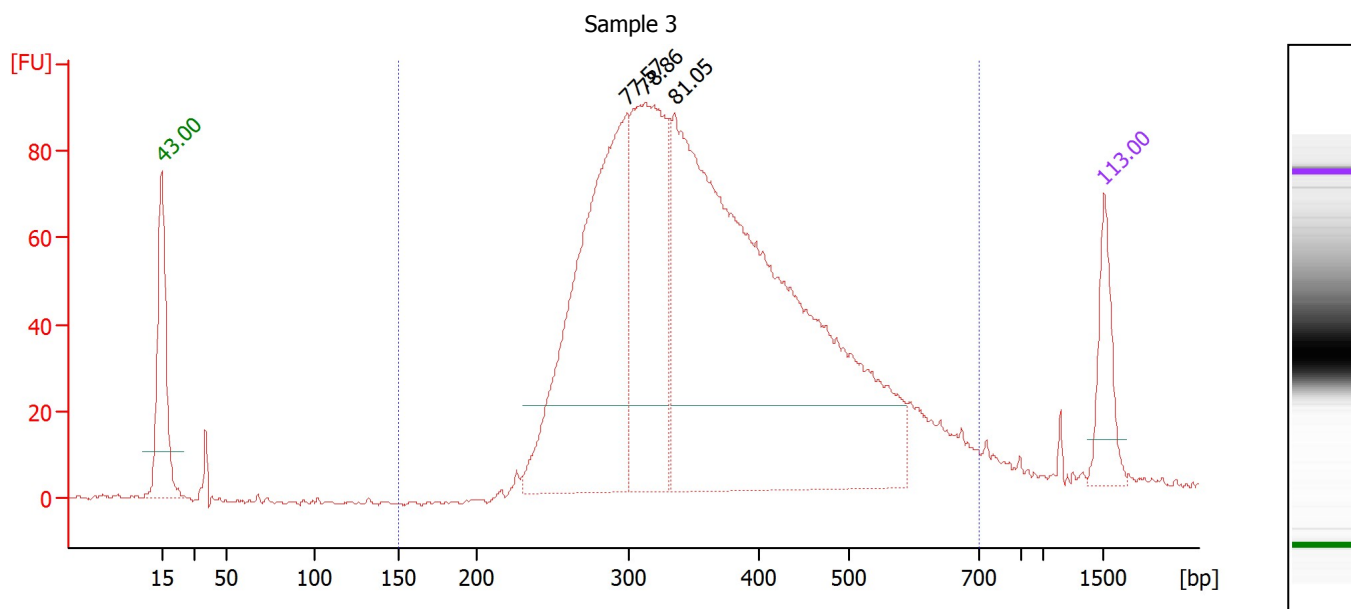
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	302	5.61	28.1	
3	319	0.72	3.4	
4	330	0.85	3.9	
5	337	1.07	4.8	
6	350	1.30	5.7	
7	363	3.18	13.3	
8	1,500	2.10	2.1	Upper Marker

### Region table for sample 2 : Sample 2

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
150	700	429.4	99	370	24.6	19.61	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

**Electropherogram Summary Continued ...****Overall Results for sample 3 : Sample 3**

Number of peaks found: 3      Area 1: 1,297.0

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

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	298	16.57	84.2	
3	311	11.34	55.2	
4	334	34.33	155.6	
5	1,500	2.10	2.1	Upper Marker

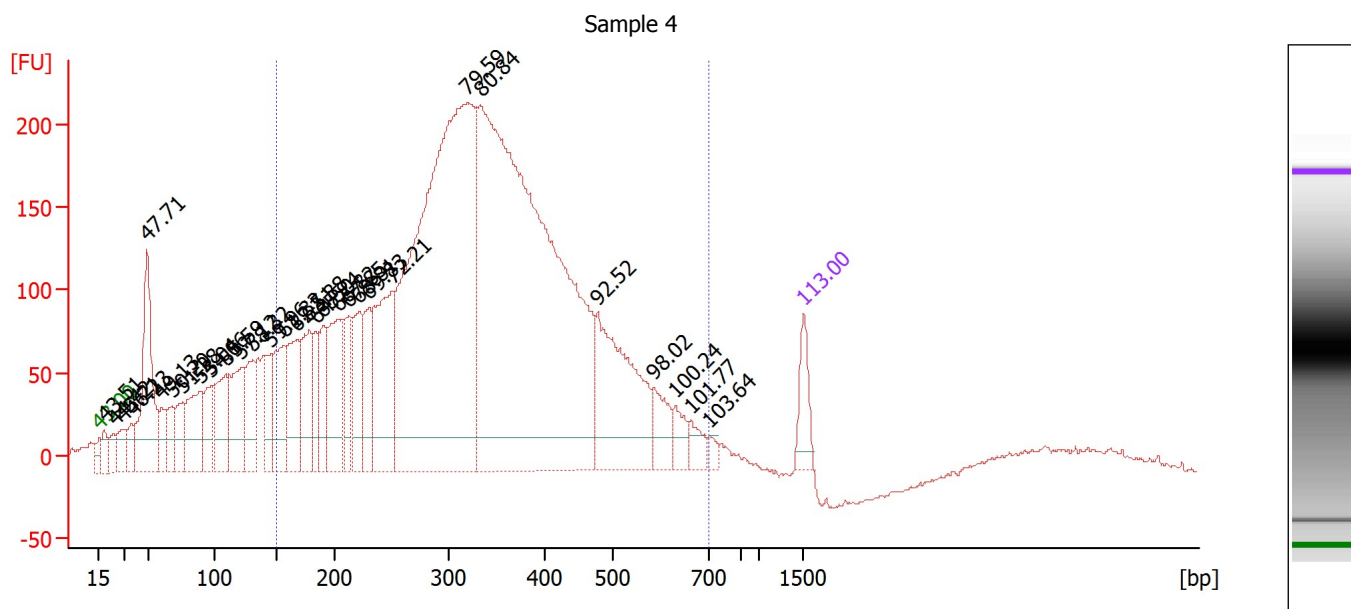
**Region table for sample 3 : Sample 3**

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Color
150	700	1,297.0	97	374	26.1	62.01	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 4 : Sample 4

Number of peaks found: 31      Area 1: 4,063.9

### Peak table for sample 4 : Sample 4

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	17	1.48	131.5	
3	21	1.43	104.3	
4	24	2.03	128.3	
5	33	1.53	70.0	
6	49	9.92	307.8	
7	60	1.56	39.5	
8	68	2.07	46.1	
9	76	2.13	42.2	
10	90	4.83	81.7	
11	97	2.61	40.7	
12	109	4.46	61.7	
13	122	4.72	58.7	
14	131	3.37	38.8	
15	145	2.35	24.6	
16	156	4.78	46.4	
17	167	4.89	44.4	
18	178	4.16	35.3	
19	184	2.29	18.9	
20	190	2.94	23.4	
21	204	5.49	40.7	
22	213	2.56	18.2	
23	222	3.87	26.4	
24	230	3.24	21.3	
25	251	8.60	51.9	
26	319	47.57	226.0	
27	332	59.30	270.6	

Assay Class: DNA 1000  
Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
Modified: 9/14/2016 4:01:07 PM

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

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
28	478	10.44	33.1	
29	583	2.26	5.9	
30	629	1.36	3.3	
31	661	1.13	2.6	
32	700	0.51	1.1	
33	1,500	2.10	2.1	Upper Marker

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

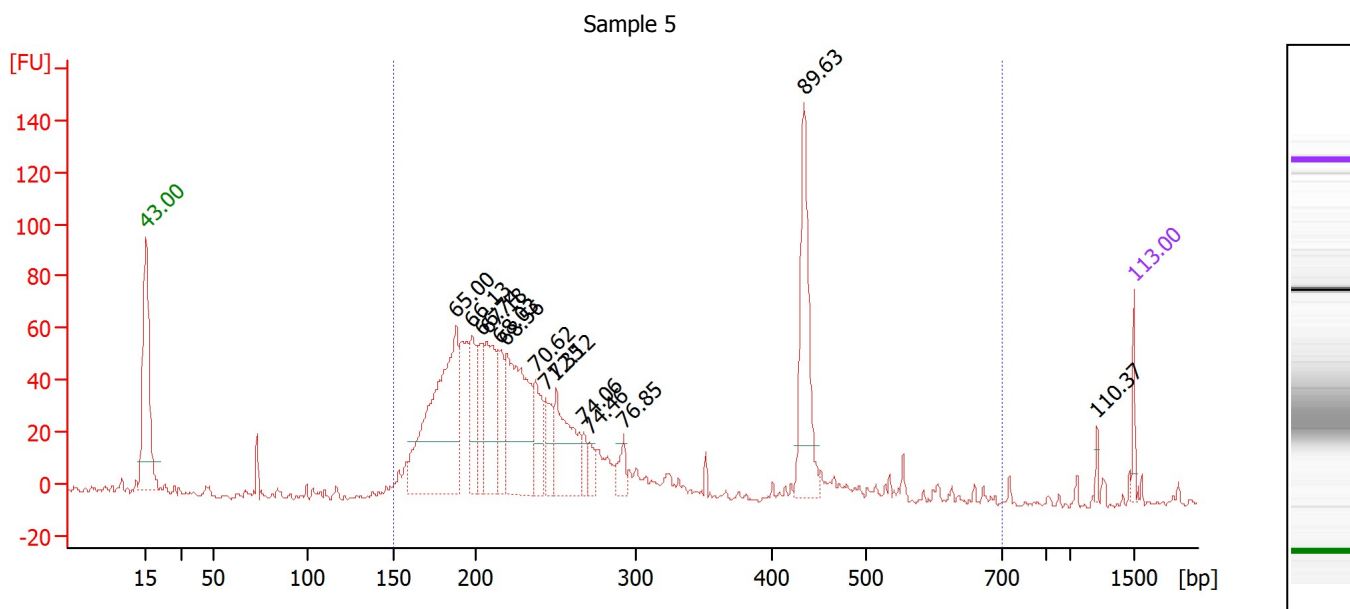
From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Color
150	700	4,063.9	84	340	31.7	152.71	



Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 5 : Sample 5

Number of peaks found: 14      Area 1: 938.7

### Peak table for sample 5 : Sample 5

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	188	33.90	272.9	
3	198	7.89	60.4	
4	203	6.56	48.9	
5	207	13.88	101.5	
6	215	5.53	39.0	
7	219	21.37	147.6	
8	237	6.69	42.7	
9	244	4.63	28.8	
10	250	12.28	74.3	
11	267	2.03	11.5	
12	271	1.90	10.6	
13	292	2.67	13.8	
14	434	16.82	58.7	
15	1,206	0.69	0.9	
16	1,500	2.10	2.1	Upper Marker

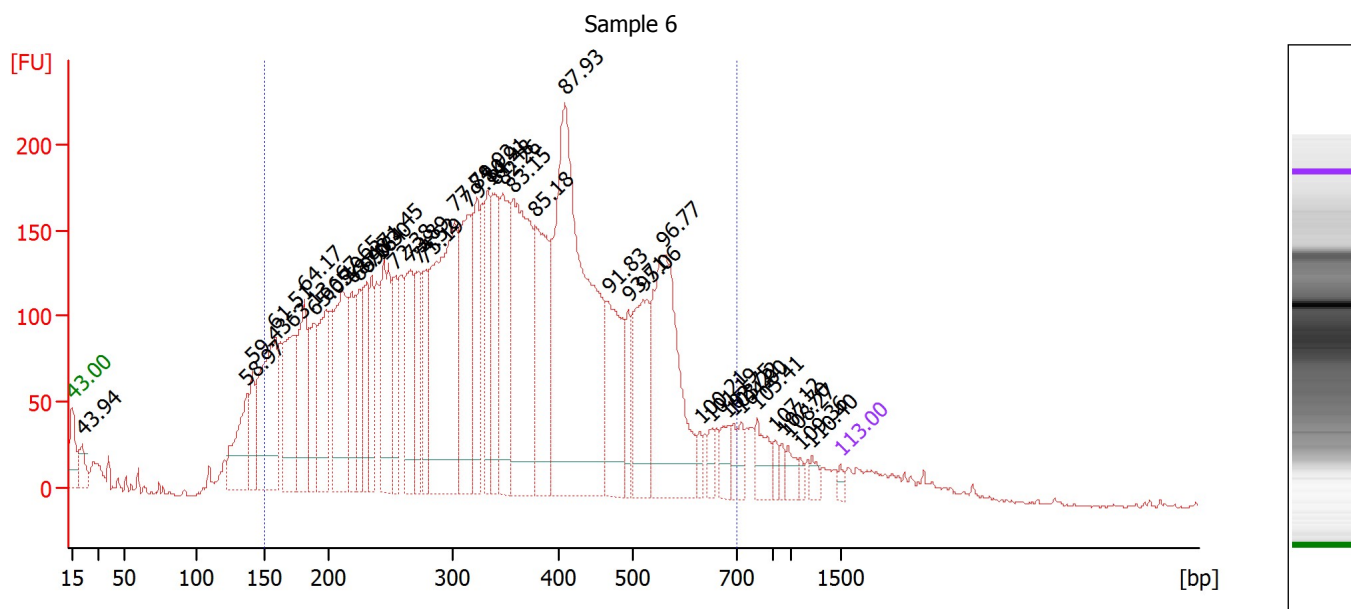
### Region table for sample 5 : Sample 5

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
150	700	938.7	97	267	38.1	161.51	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 6 : Sample 6

Number of peaks found: 42 Area 1: 4,723.4

### Peak table for sample 6 : Sample 6

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	19	11.76	947.8	
3	137	28.19	312.5	
4	140	14.84	160.0	
5	158	58.62	562.7	
6	172	37.28	328.6	
7	181	38.33	321.0	
8	189	25.12	201.7	
9	199	36.09	275.3	
10	211	47.60	341.2	
11	219	24.06	166.7	
12	225	20.51	138.4	
13	231	22.78	149.7	
14	235	20.95	135.3	
15	245	41.24	255.4	
16	253	18.92	113.4	
17	266	33.88	192.9	
18	271	20.60	115.0	
19	277	22.40	122.4	
20	301	101.45	511.1	
21	314	51.40	247.7	
22	322	30.92	145.3	
23	333	29.23	133.1	
24	339	31.26	139.8	
25	347	41.31	180.4	
26	356	83.54	355.4	
27	377	51.06	205.0	

Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

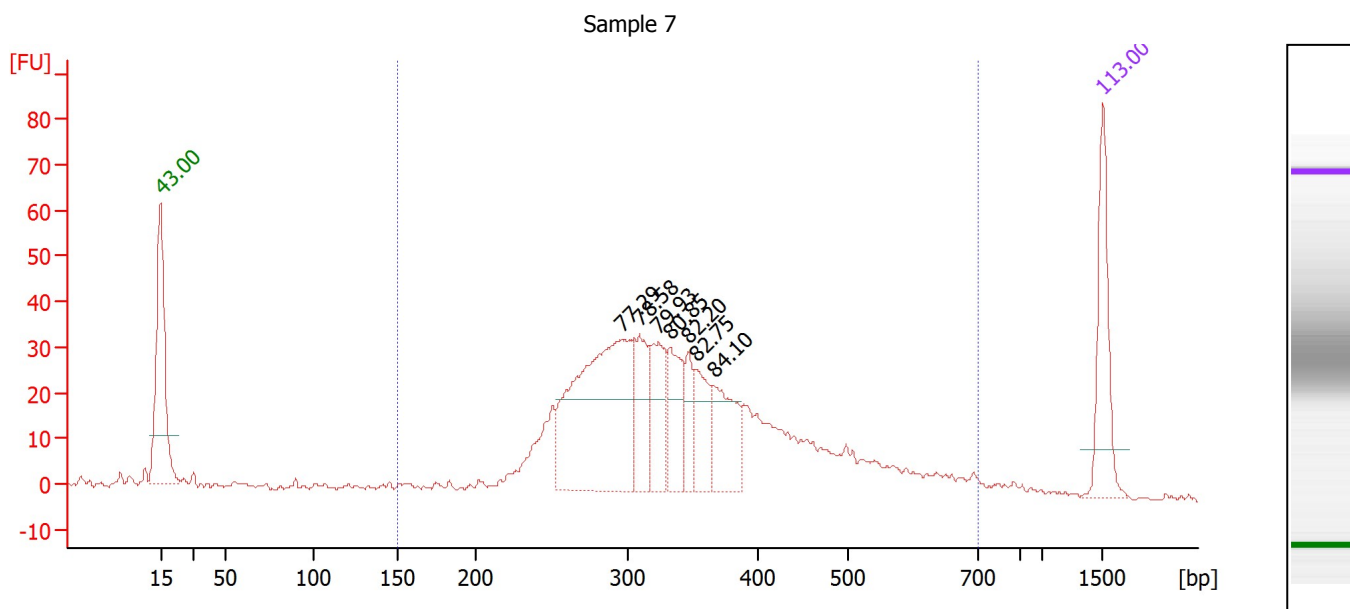
**Electropherogram Summary Continued ...****... Peak table for sample 6 : Sample 6**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
28	409	171.39	635.4	
29	467	39.85	129.2	
30	495	12.39	37.9	
31	522	37.63	109.3	
32	557	80.21	218.0	
33	629	4.17	10.0	
34	649	5.60	13.1	
35	681	7.99	17.8	
36	691	4.63	10.1	
37	717	5.91	12.5	
38	784	12.20	23.6	
39	878	4.28	7.4	
40	928	3.06	5.0	
41	978	5.78	9.0	
42	1,093	2.41	3.3	
43	1,209	4.07	5.1	
44	1,500	2.10	2.1	Upper Marker

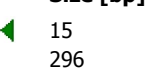
**Region table for sample 6 : Sample 6**

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Color
150	700	4,723.4	91	353	34.9	1,243.80	

Created: 9/14/2016 3:21:01 PM  
Modified: 9/14/2016 4:01:07 PM



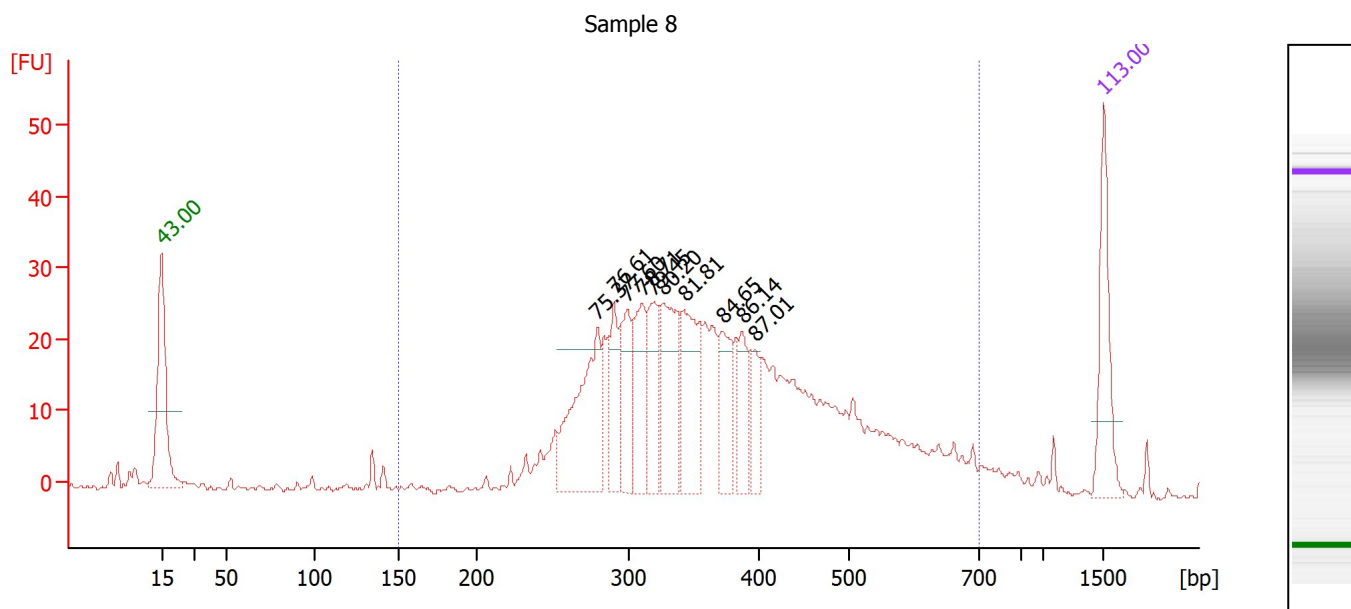
Number of peaks found:	7	Area 1:	473.8
------------------------	---	---------	-------

Peak		Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1		15	4.20	424.2	Lower Marker
2		296	6.87	35.2	
3		308	1.54	7.6	
4		323	1.61	7.6	
5		332	1.49	6.8	
6		346	0.89	3.9	
7		352	1.26	5.4	
8		366	1.77	7.3	
9		1,500	2.10	2.1	Upper Marker

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/µl]	Color
150	700	473.8	94	355	27.5	23.27	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

**Electropherogram Summary Continued ...****Overall Results for sample 8 : Sample 8**

Number of peaks found: 10      Area 1: 424.1

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

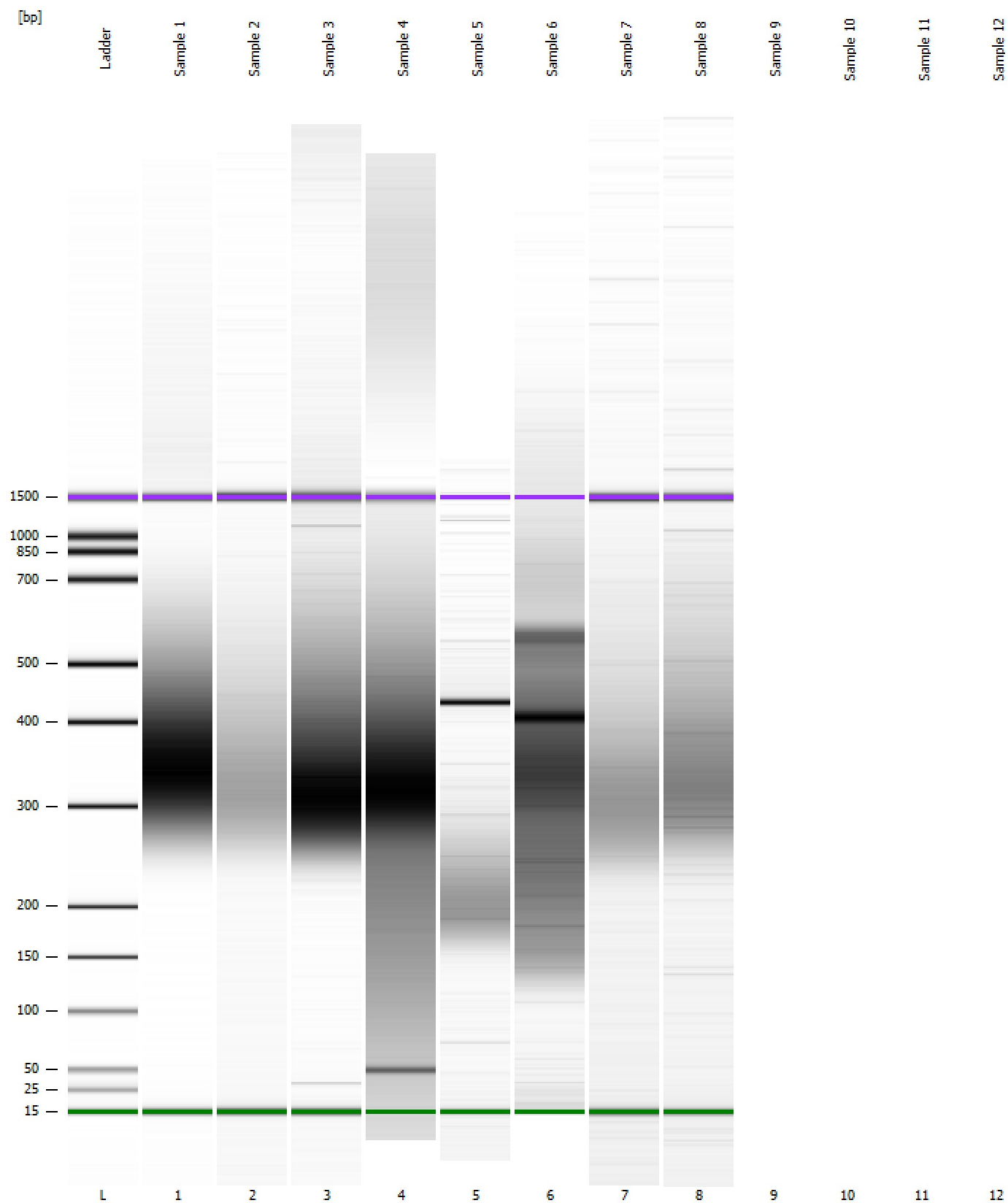
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	279	3.82	20.7	
3	290	1.46	7.6	
4	298	1.81	9.2	
5	310	1.96	9.6	
6	318	1.64	7.8	
7	325	2.61	12.2	
8	342	2.41	10.7	
9	372	1.42	5.8	
10	387	1.25	4.9	
11	396	0.91	3.5	
12	1,500	2.10	2.1	Upper Marker

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

From [bp]	To [bp]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
150	700	424.1	89	383	27.5	34.94	Blue

Assay Class: DNA 1000  
Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
Modified: 9/14/2016 4:01:07 PM

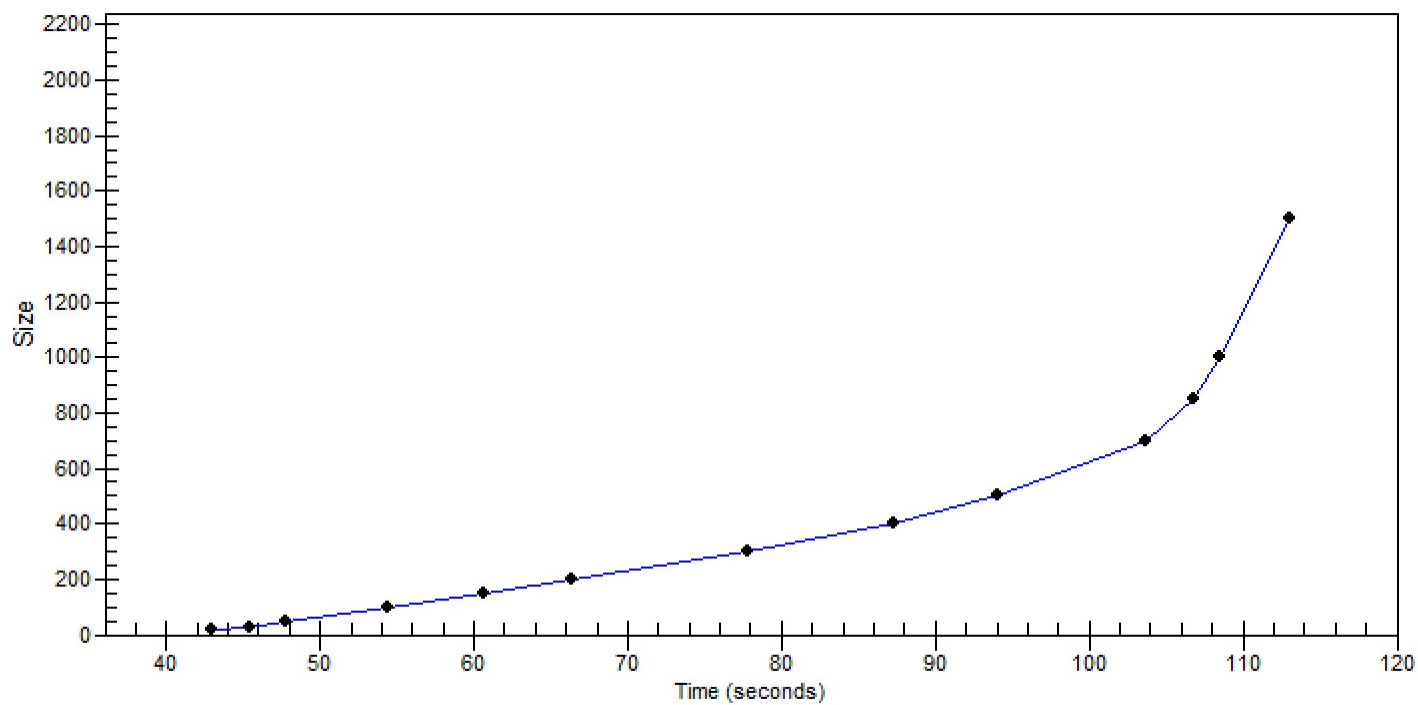
**Gel Image**

Assay Class: DNA 1000  
Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
Modified: 9/14/2016 4:01:07 PM

## Curves

### Standard Curve



Assay Class: DNA 1000  
Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
Modified: 9/14/2016 4:01:07 PM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.



Assay Class: DNA 1000  
 Data Path: C:\...-14\2100 expert\_DNA 1000\_DE54700243\_2016-09-14\_15-21-02.xad

Created: 9/14/2016 3:21:01 PM  
 Modified: 9/14/2016 4:01:07 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		9/14/2016 3:52:14 PM	(GMT --04:00) Eastern Standard Time	paradesi	ABRMSN-D1
Run started on port 1 (File: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\Data\2016-09-14\2100 expert_DNA 1000_DE54700243_2016-09-14_15-21-02.xad)		Instrument	Run		9/14/2016 3:21:07 PM	(GMT --04:00) Eastern Standard Time	paradesi	ABRMSN-D1
Product Number : G2939A		Instrument	Run		9/14/2016 3:21:07 PM	(GMT --04:00) Eastern Standard Time	paradesi	ABRMSN-D1
Name : Chodosh		Instrument	Run		9/14/2016 3:21:07 PM	(GMT --04:00) Eastern Standard Time	paradesi	ABRMSN-D1
Vendor : Agilent Technologies		Instrument	Run		9/14/2016 3:21:07 PM	(GMT --04:00) Eastern Standard Time	paradesi	ABRMSN-D1
Serial# : DE54700243		Instrument	Run		9/14/2016 3:21:07 PM	(GMT --04:00) Eastern Standard Time	paradesi	ABRMSN-D1
Firmware : C.01.069		Instrument	Run		9/14/2016 3:21:07 PM	(GMT --04:00) Eastern Standard Time	paradesi	ABRMSN-D1
Cartridge : Electrode		Instrument	Run		9/14/2016 3:21:07 PM	(GMT --04:00) Eastern Standard Time	paradesi	ABRMSN-D1