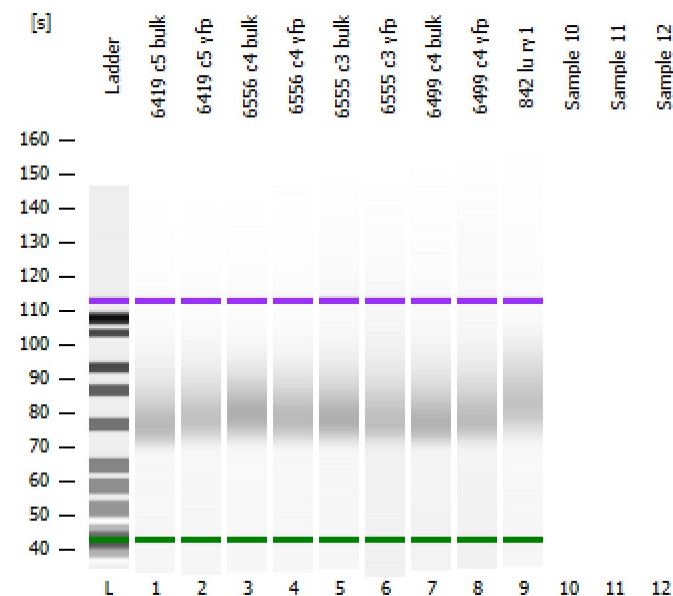


Assay Class: DNA 1000  
Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
Modified: 9/9/2016 12:00:50 PM

### Electrophoresis File Run Summary



#### Instrument Information:

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

#### Assay Information:

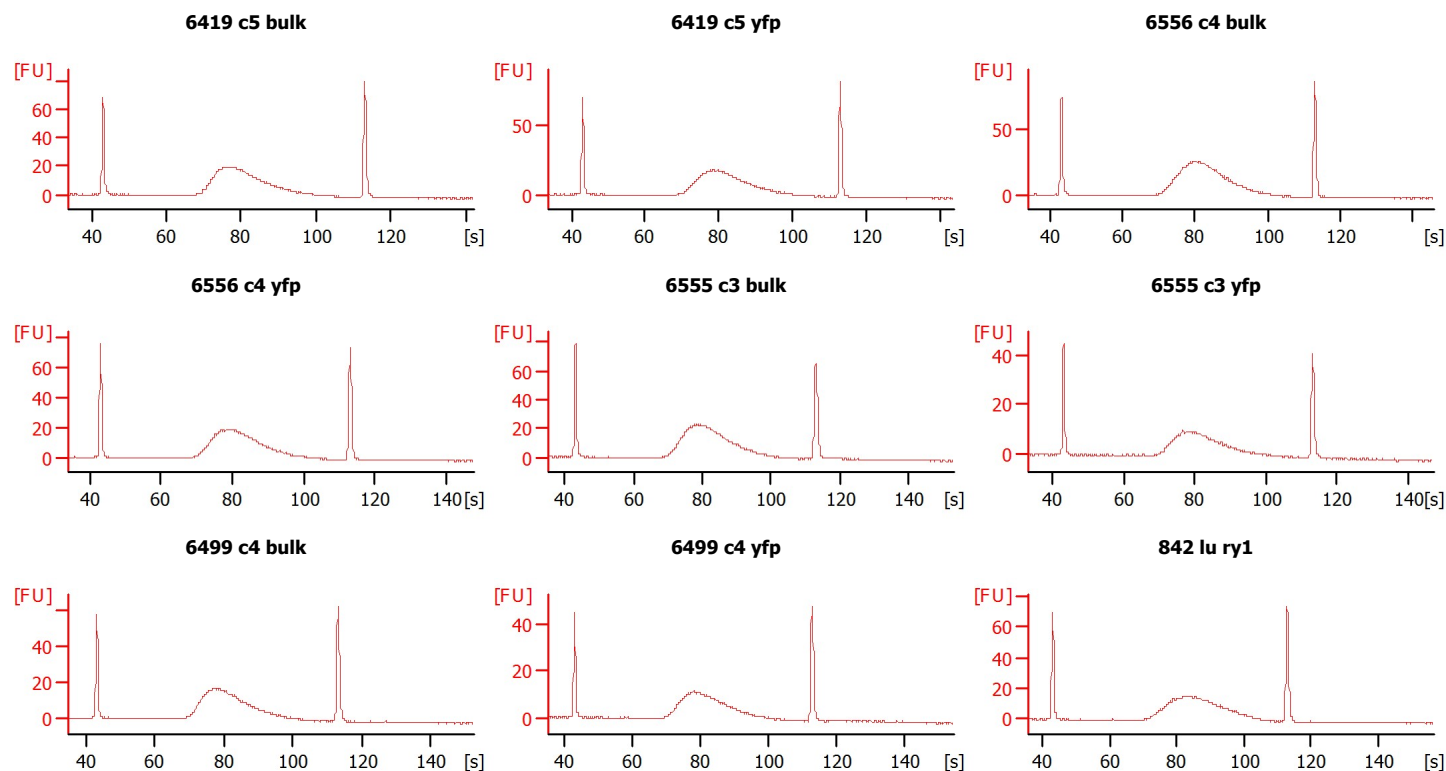
Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 1000 Series II.xsy

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:



Assay Class: DNA 1000  
Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
Modified: 9/9/2016 12:00:50 PM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
6419 c5 bulk		<input type="checkbox"/>	✓			
6419 c5 yfp		<input type="checkbox"/>	✓			
6556 c4 bulk		<input type="checkbox"/>	✓			
6556 c4 yfp		<input type="checkbox"/>	✓			
6555 c3 bulk		<input type="checkbox"/>	✓			
6555 c3 yfp		<input type="checkbox"/>	✓			
6499 c4 bulk		<input type="checkbox"/>	✓			
6499 c4 yfp		<input type="checkbox"/>	✓			
842 lu ry1		<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:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
Modified: 9/9/2016 12:00:50 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

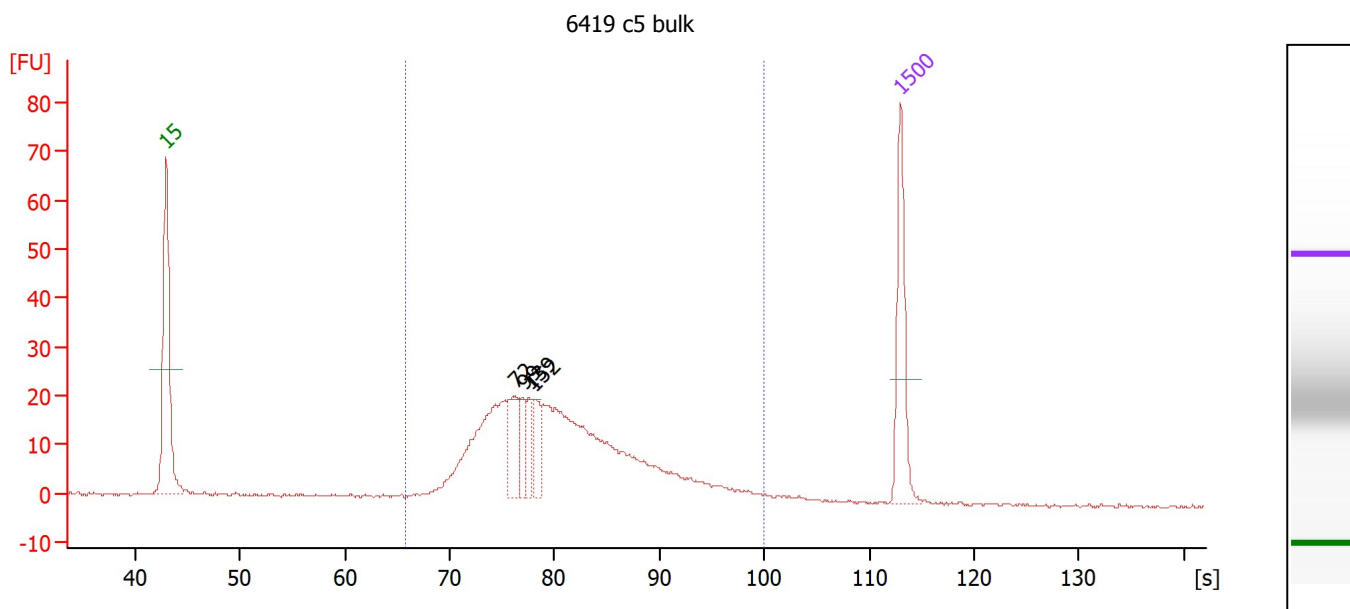
### Ladder

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:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
 Modified: 9/9/2016 12:00:50 PM

### Electropherogram Summary



### Overall Results for sample 1 : 6419 c5 bulk

Number of peaks found: 4 Area 1: 293.2

### Peak table for sample 1 : 6419 c5 bulk

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	72	1.79	37.7	
3	99	0.98	14.9	
4	139	0.75	8.1	
5	152	1.08	10.7	
6	1,500	2.10	2.1	Upper Marker

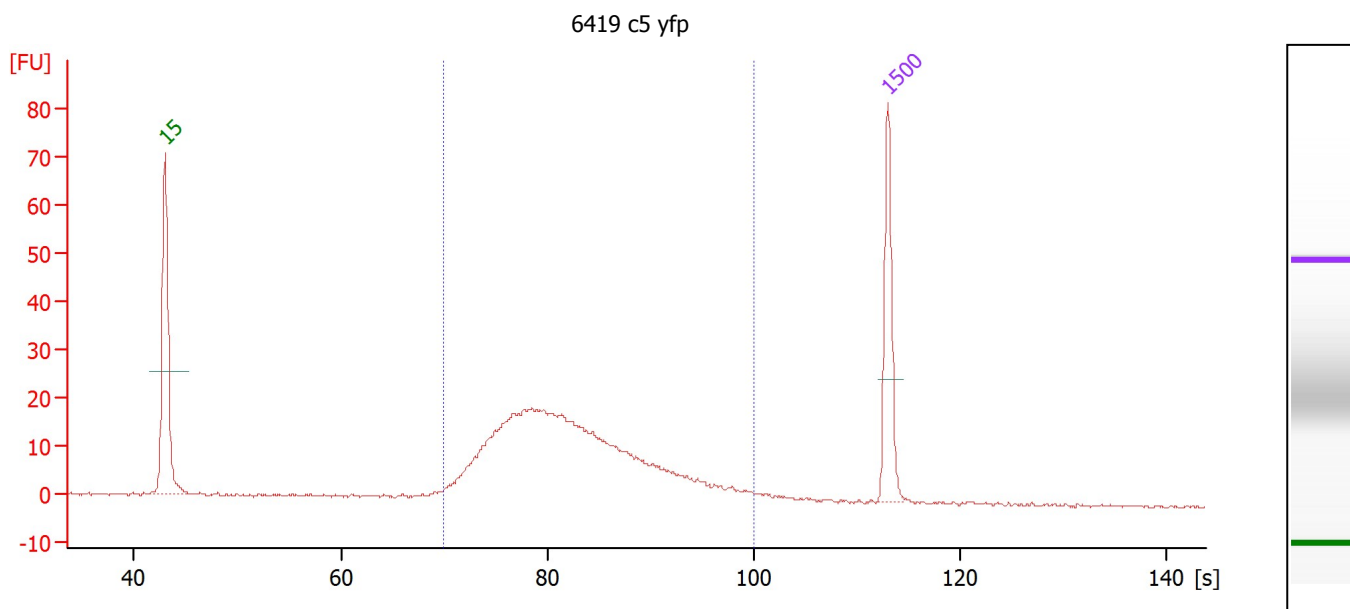
### Region table for sample 1 : 6419 c5 bulk

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
65.89	100.00	293.2	97	182	87.5	21.74	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
 Modified: 9/9/2016 12:00:50 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 2 : 6419 c5 yfp

Number of peaks found: 0 Area 1: 264.2

### Peak table for sample 2 : 6419 c5 yfp

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	1,500	2.10	2.1	Upper Marker

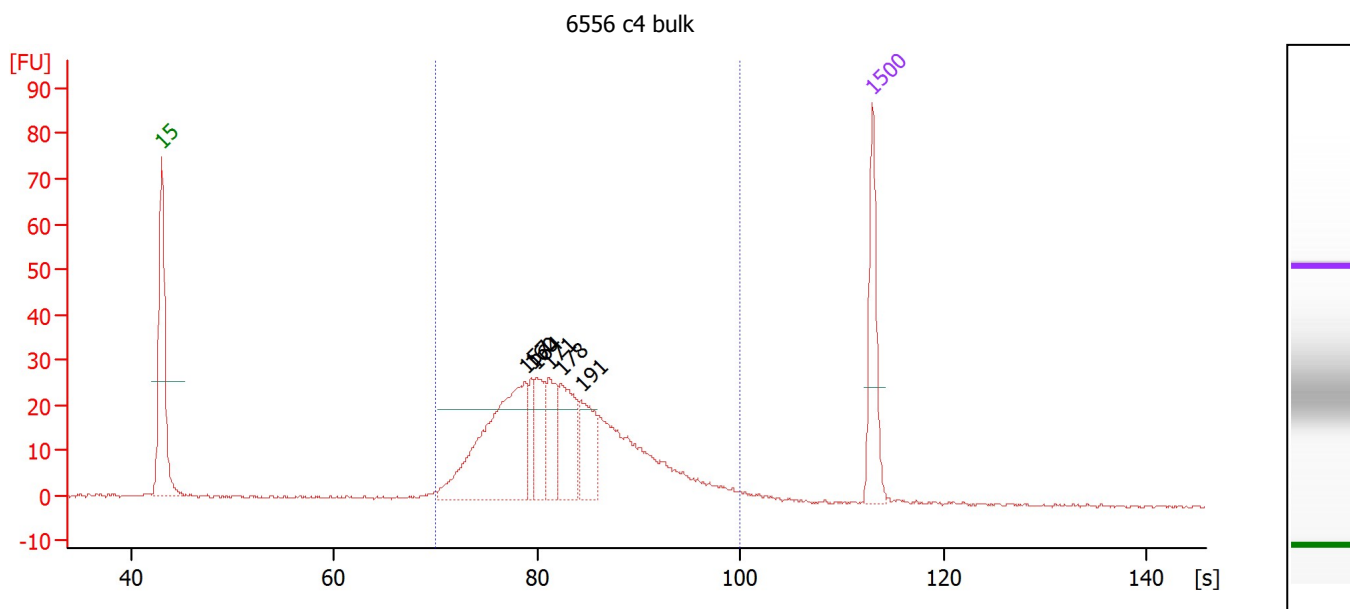
### Region table for sample 2 : 6419 c5 yfp

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	264.2	94	213	79.2	18.64	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
 Modified: 9/9/2016 12:00:50 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 3 : 6556 c4 bulk

Number of peaks found: 6      Area 1: 368.4

### Peak table for sample 3 : 6556 c4 bulk

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	157	7.90	76.3	
3	160	1.00	9.4	
4	164	1.71	15.9	
5	171	1.83	16.2	
6	178	2.75	23.3	
7	191	2.07	16.4	
8	1,500	2.10	2.1	Upper Marker

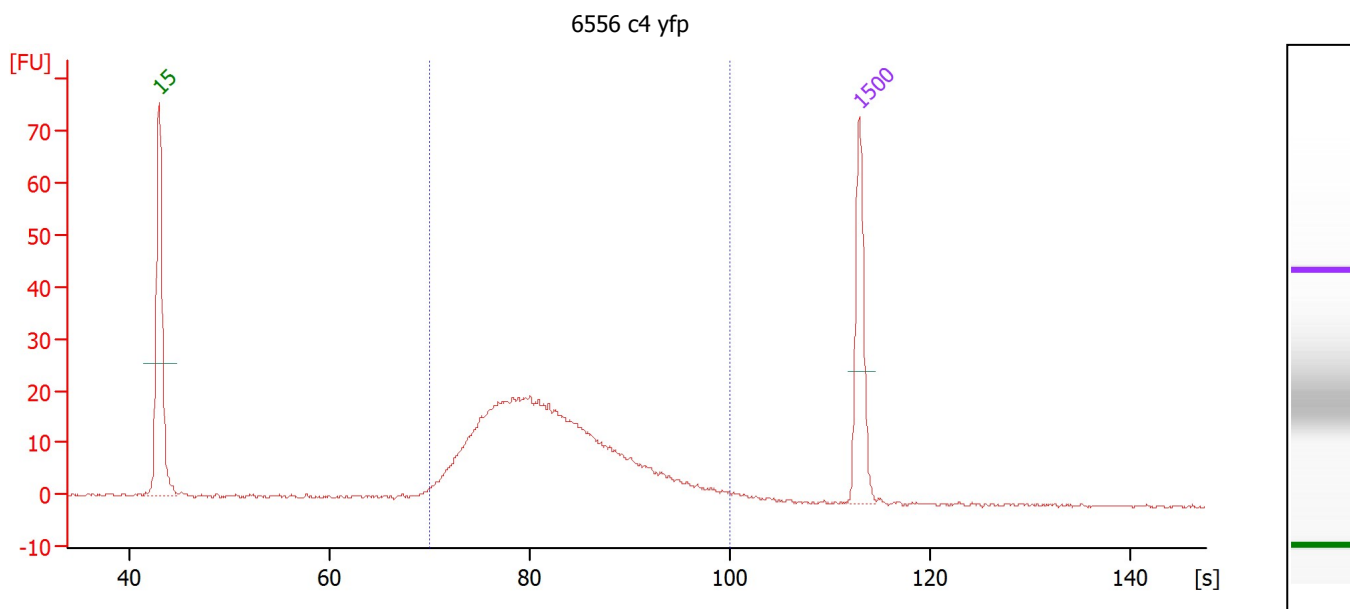
### Region table for sample 3 : 6556 c4 bulk

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	368.4	95	221	74.0	24.09	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
 Modified: 9/9/2016 12:00:50 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 4 : 6556 c4 yfp

Number of peaks found: 0 Area 1: 268.1

### Peak table for sample 4 : 6556 c4 yfp

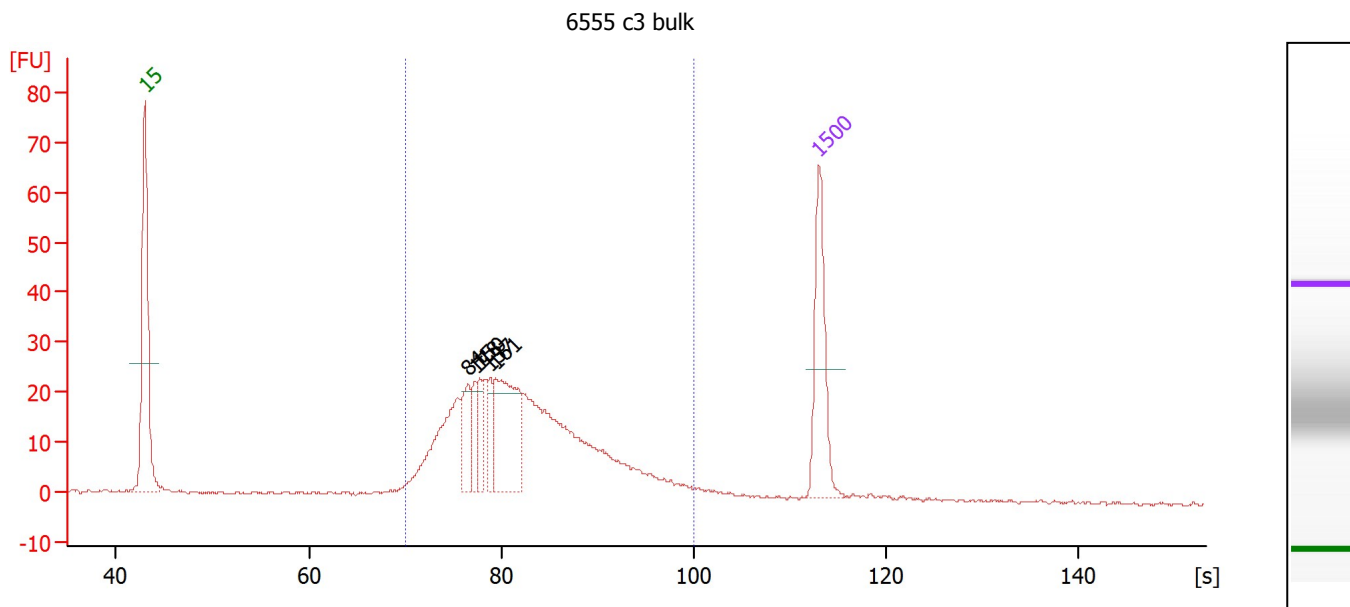
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	1,500	2.10	2.1	Upper Marker

### Region table for sample 4 : 6556 c4 yfp

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	268.1	97	209	78.1	18.85	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
 Modified: 9/9/2016 12:00:50 PM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : 6555 c3 bulk**

Number of peaks found: 5 Area 1: 307.7

**Peak table for sample 5 : 6555 c3 bulk**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	84	1.45	26.0	
3	118	0.79	10.1	
4	150	0.77	7.8	
5	157	0.75	7.3	
6	161	3.51	33.2	Upper Marker
7	1,500	2.10	2.1	

**Region table for sample 5 : 6555 c3 bulk**

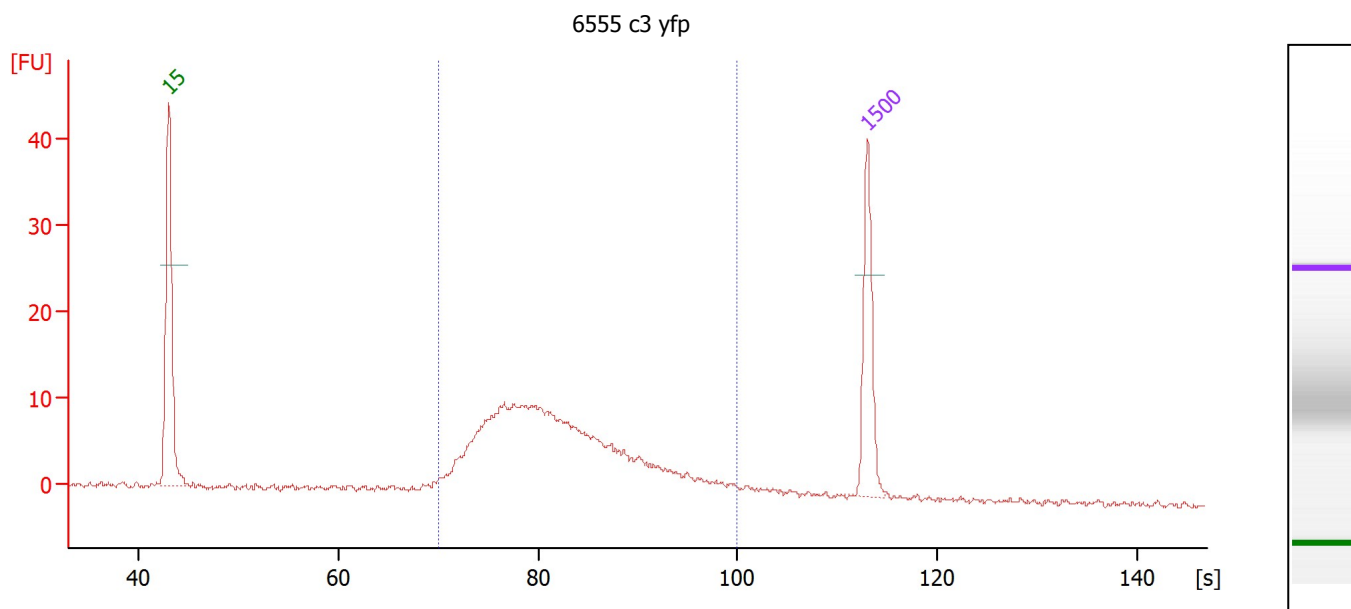
From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	307.7	95	211	78.6	20.02	Blue



Assay Class: DNA 1000  
 Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
 Modified: 9/9/2016 12:00:50 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 6 : 6555 c3 yfp

Number of peaks found: 0 Area 1: 143.0

### Peak table for sample 6 : 6555 c3 yfp

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	1,500	2.10	2.1	Upper Marker

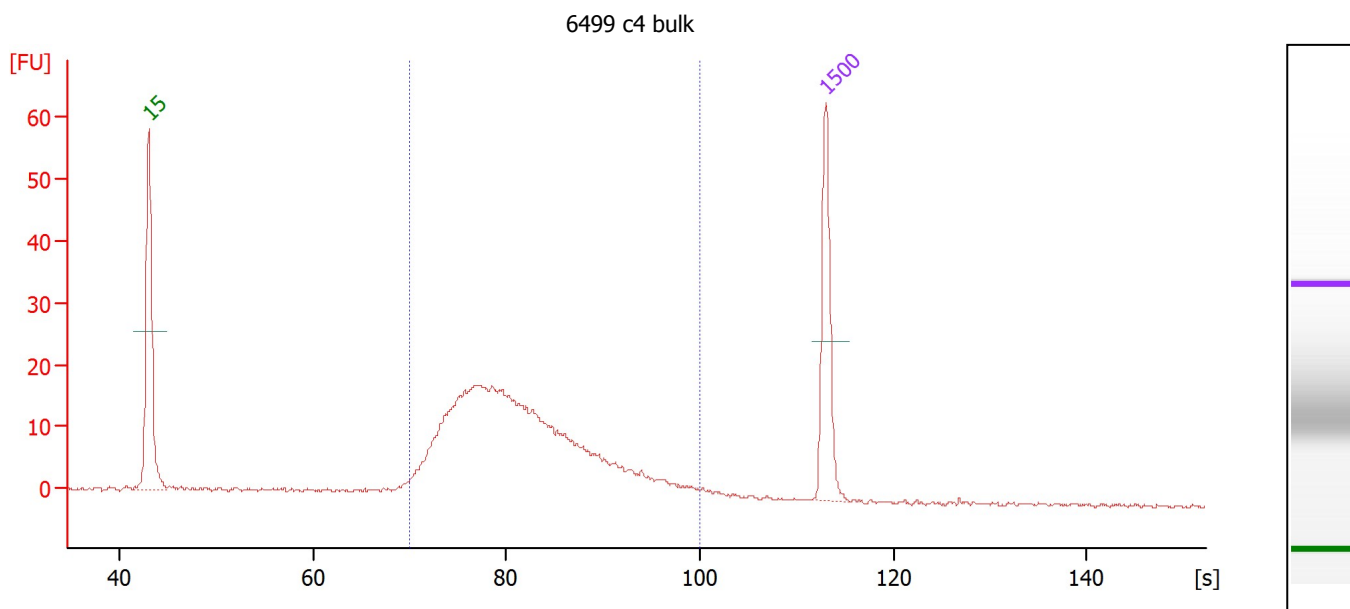
### Region table for sample 6 : 6555 c3 yfp

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	143.0	89	213	82.0	17.61	Blue

Assay Class: DNA 1000  
 Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
 Modified: 9/9/2016 12:00:50 PM

### Electropherogram Summary Continued ...



### Overall Results for sample 7 : 6499 c4 bulk

Number of peaks found: 0 Area 1: 225.4

### Peak table for sample 7 : 6499 c4 bulk

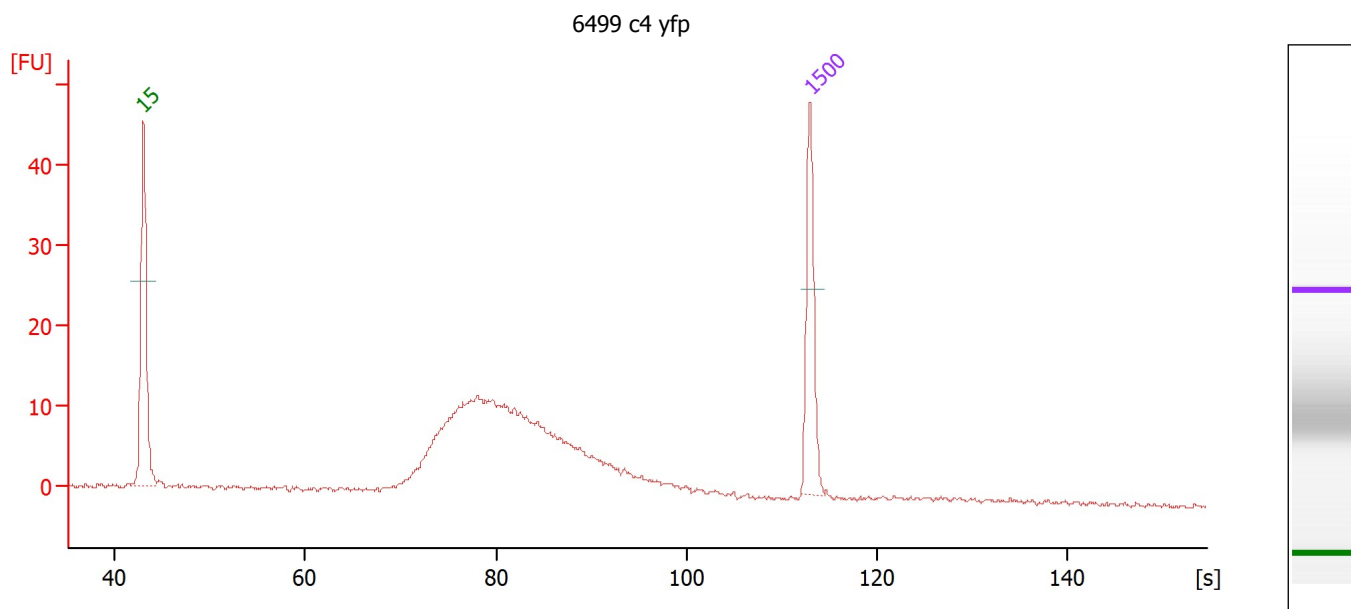
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	1,500	2.10	2.1	Upper Marker

### Region table for sample 7 : 6499 c4 bulk

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	225.4	95	197	83.2	19.32	Blue

Assay Class: DNA 1000  
Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
Modified: 9/9/2016 12:00:50 PM

**Electropherogram Summary Continued ...****Overall Results for sample 8 : 6499 c4 yfp**

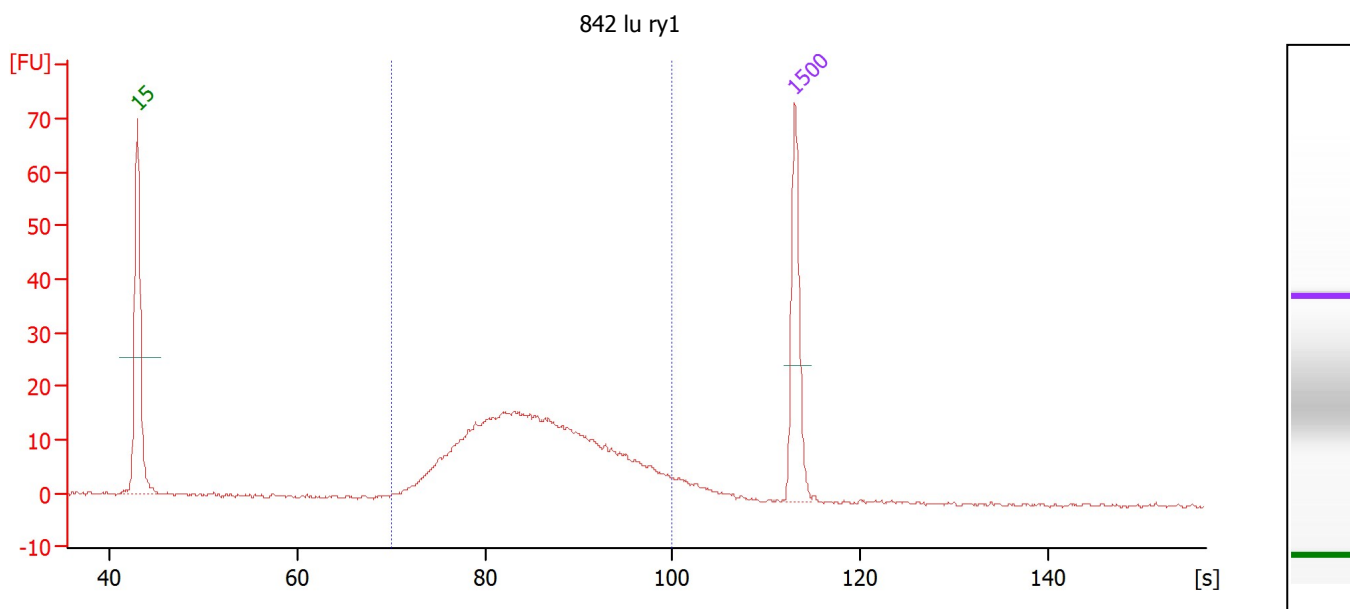
Number of peaks found: 0

**Peak table for sample 8 : 6499 c4 yfp**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000  
 Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
 Modified: 9/9/2016 12:00:50 PM

**Electropherogram Summary Continued ...****Overall Results for sample 9 : 842 lu ry1**

Number of peaks found: 0 Area 1: 241.4

**Peak table for sample 9 : 842 lu ry1**

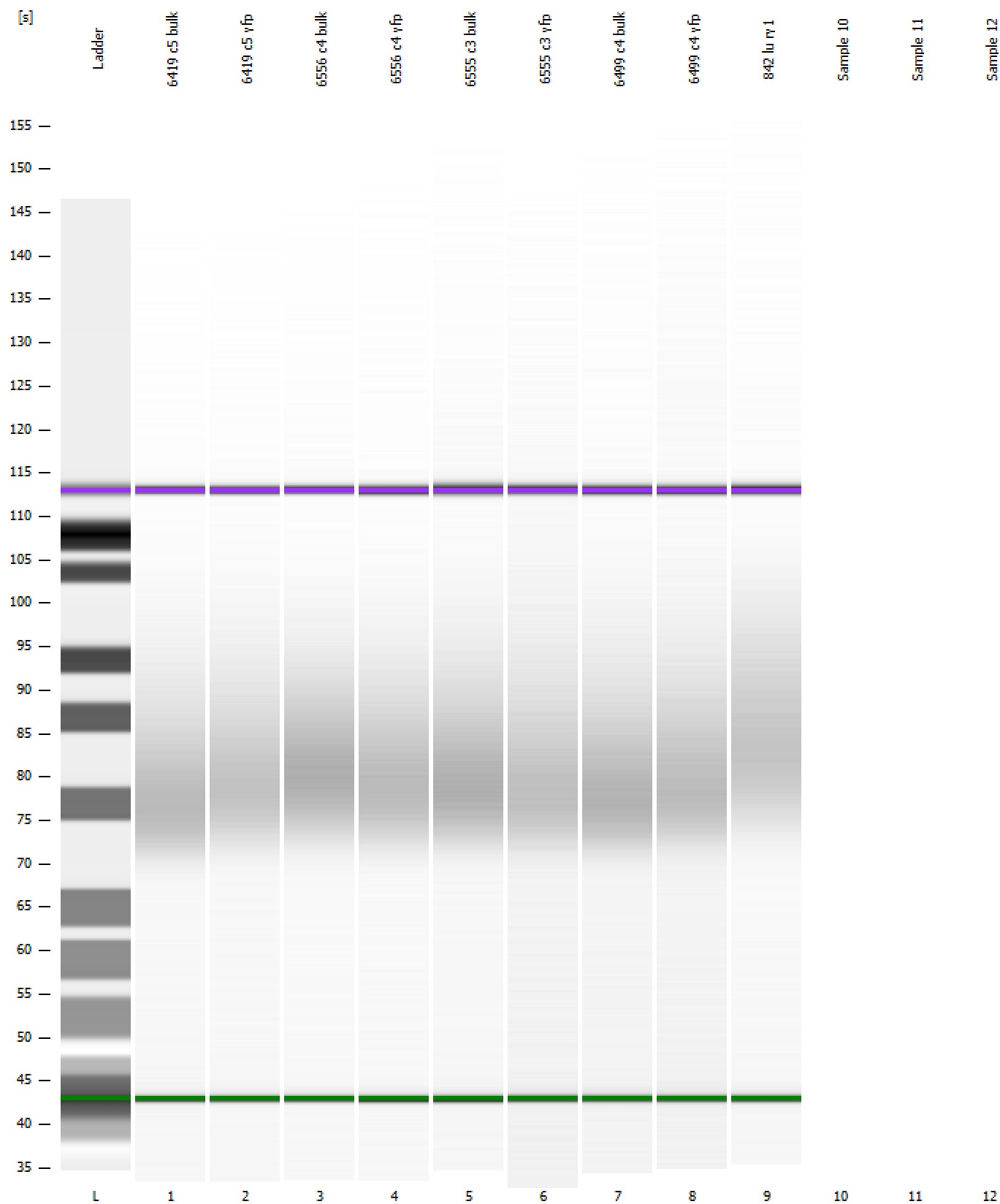
Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	1,500	2.10	2.1	Upper Marker

**Region table for sample 9 : 842 lu ry1**

From [s]	To [s]	Area	% of Total	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Col or
70.00	100.00	241.4	93	293	69.4	15.08	Blue

Assay Class: DNA 1000  
Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
Modified: 9/9/2016 12:00:50 PM

**Gel Image**

Assay Class: DNA 1000  
Data Path: C:\...-09\2100 expert\_DNA 1000\_DE54700243\_2016-09-09\_11-16-05.xad

Created: 9/9/2016 11:16:04 AM  
Modified: 9/9/2016 12:00:50 PM

**Invalid Samples**

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.