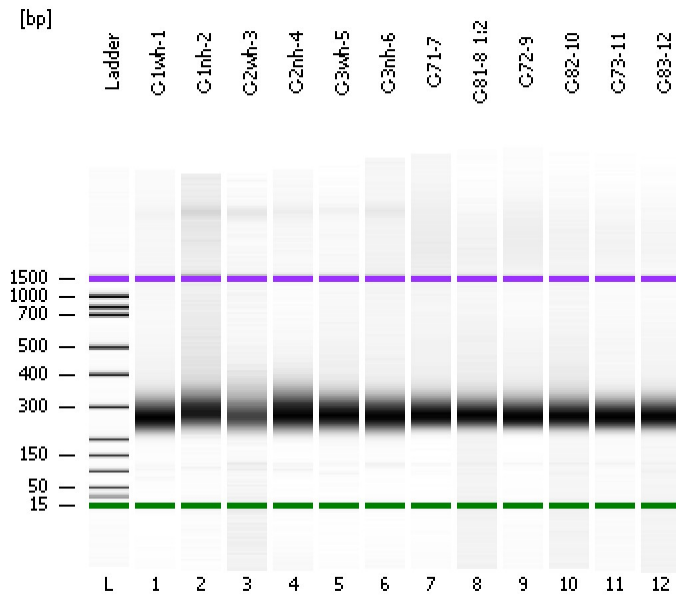


Assay Class: DNA 1000  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
Modified: 12/20/2012 11:56:26 AM

### Electrophoresis File Run Summary



#### Instrument Information:

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

#### Assay Information:

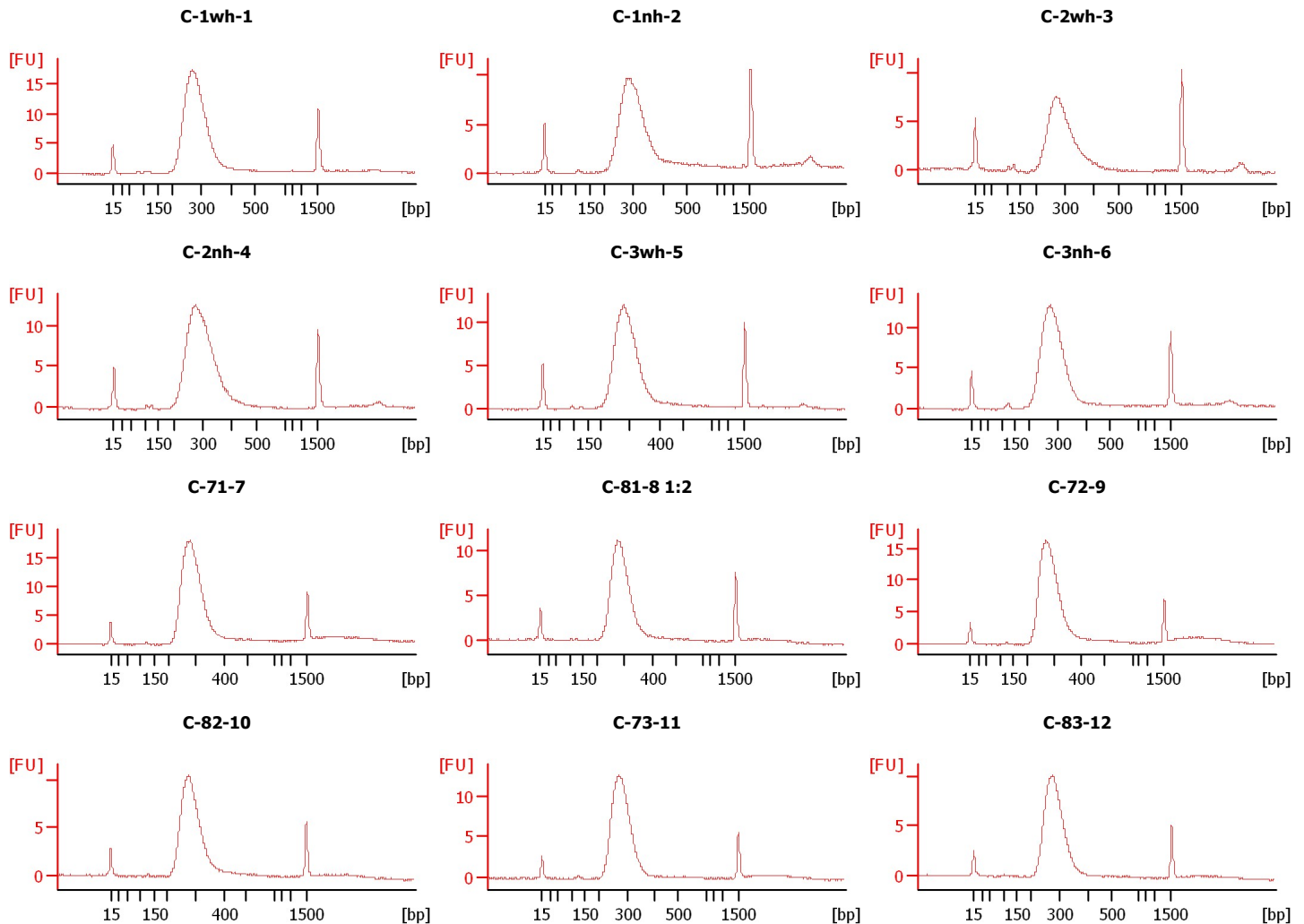
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\DNA 1000 Series II.xsy

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:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
Modified: 12/20/2012 11:56:26 AM

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

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
C-1wh-1		<input type="checkbox"/>	✓			
C-1nh-2		<input type="checkbox"/>	✓			
C-2wh-3		<input type="checkbox"/>	✓			
C-2nh-4		<input type="checkbox"/>	✓			
C-3wh-5		<input type="checkbox"/>	✓			
C-3nh-6		<input type="checkbox"/>	✓			
C-71-7		<input type="checkbox"/>	✓			
C-81-8 1:2		<input type="checkbox"/>	✓			
C-72-9		<input type="checkbox"/>	✓			
C-82-10		<input type="checkbox"/>	✓			
C-73-11		<input type="checkbox"/>	✓			
C-83-12		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: DNA 1000  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
Modified: 12/20/2012 11:56:26 AM

**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] : 2  
Area Threshold : 0.1  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

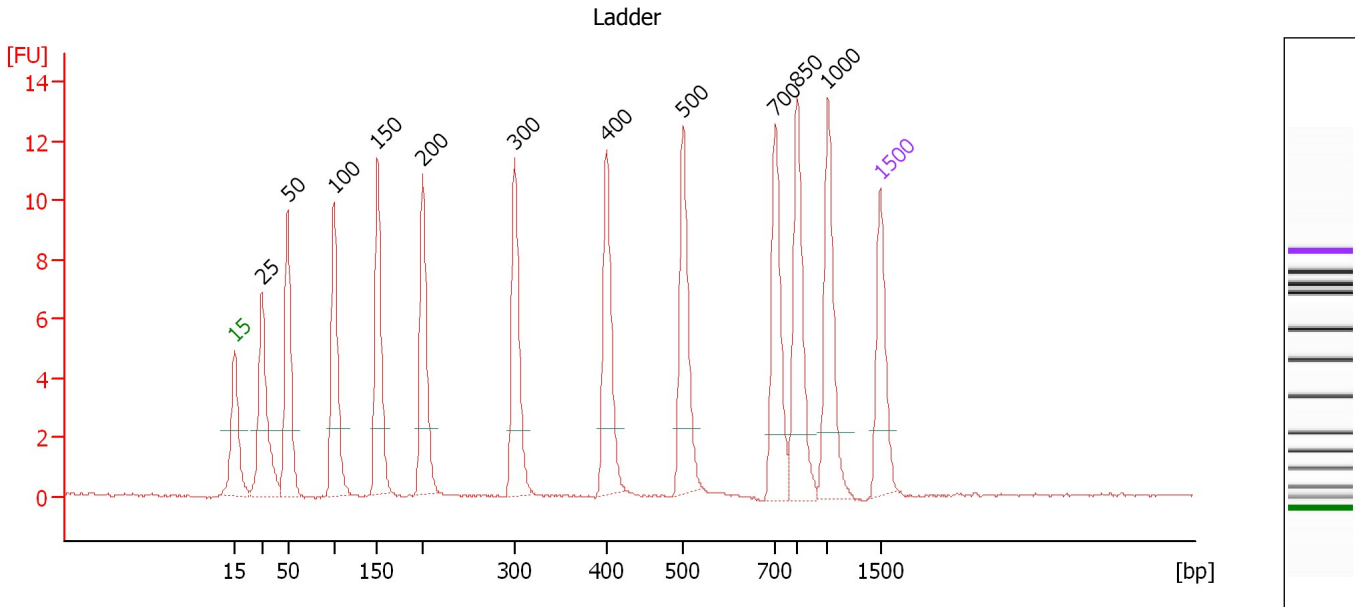
**Ladder**

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:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary**



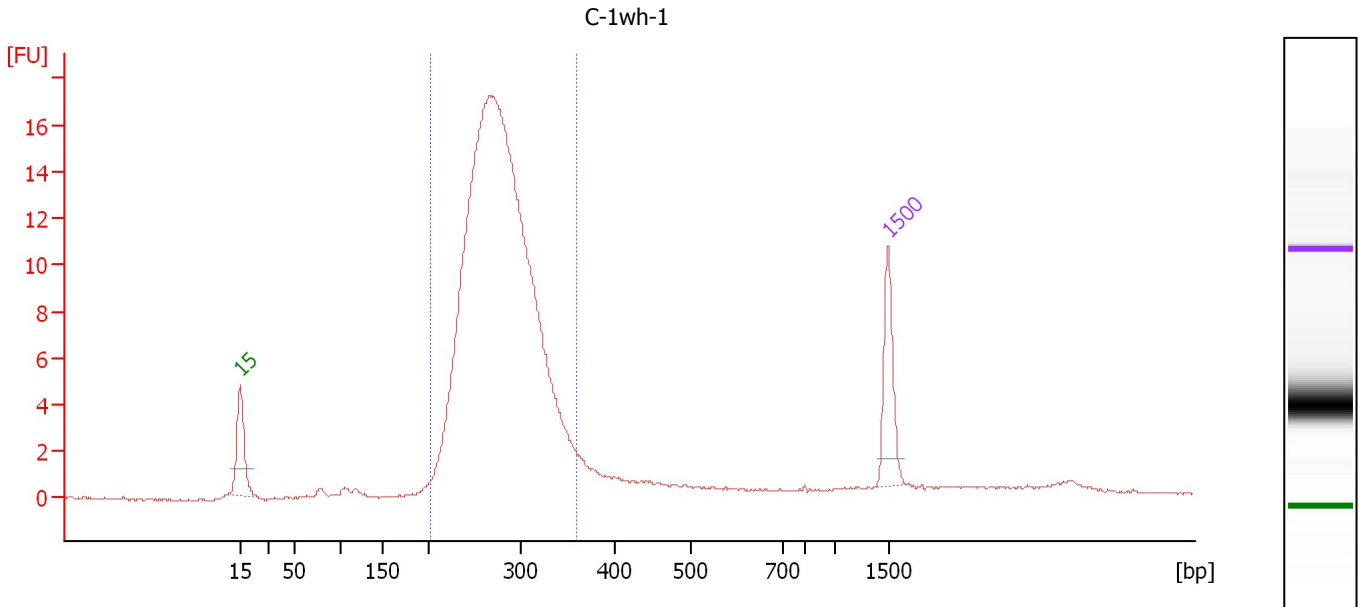
**Peak table for Ladder**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	25	4.00	242.4	Ladder Peak
3	50	4.00	121.2	Ladder Peak
4	100	4.00	60.6	Ladder Peak
5	150	4.00	40.4	Ladder Peak
6	200	4.00	30.3	Ladder Peak
7	300	4.00	20.2	Ladder Peak
8	400	4.00	15.2	Ladder Peak
9	500	4.00	12.1	Ladder Peak
10	700	4.00	8.7	Ladder Peak
11	850	4.00	7.1	Ladder Peak
12	1,000	4.00	6.1	Ladder Peak
13	1,500	2.10	2.1	Upper Marker

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : C-1wh-1**

Number of peaks found: 0                      Area 1: 117.1

**Peak table for sample 1 : C-1wh-1**

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

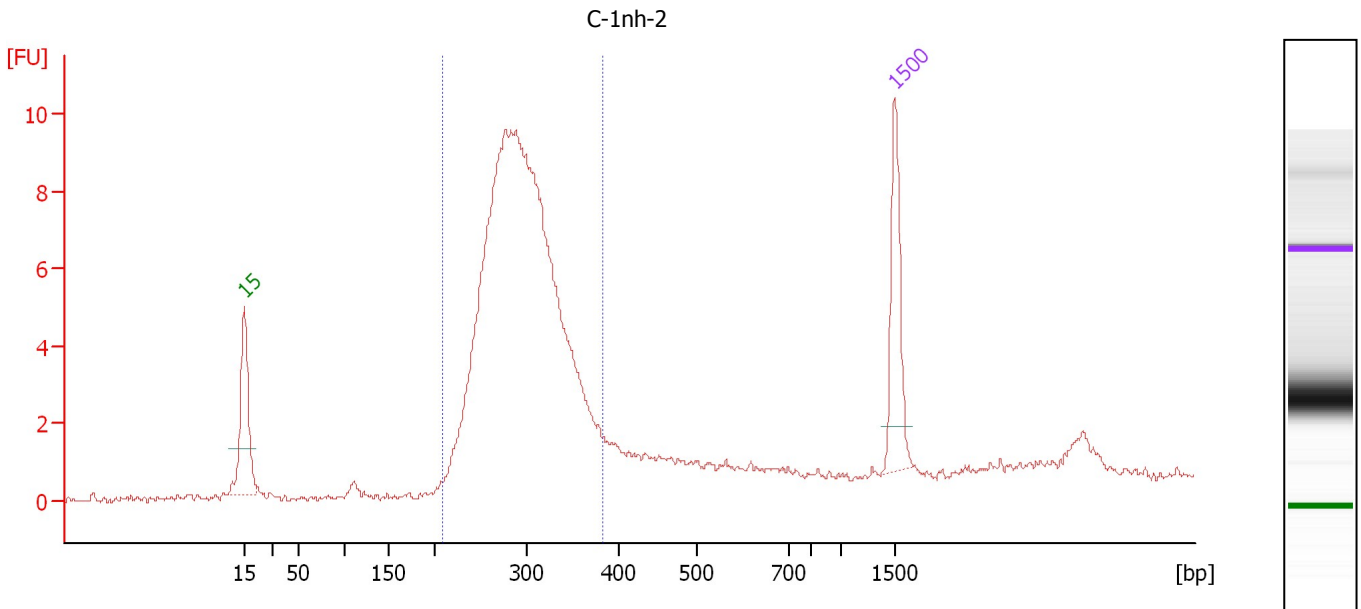
**Region table for sample 1 : C-1wh-1**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
200	360	117.1	86	234.5	277	11.8	42.41	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : C-1nh-2**

Number of peaks found: 0                      Area 1: 71.4

**Peak table for sample 2 : C-1nh-2**

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

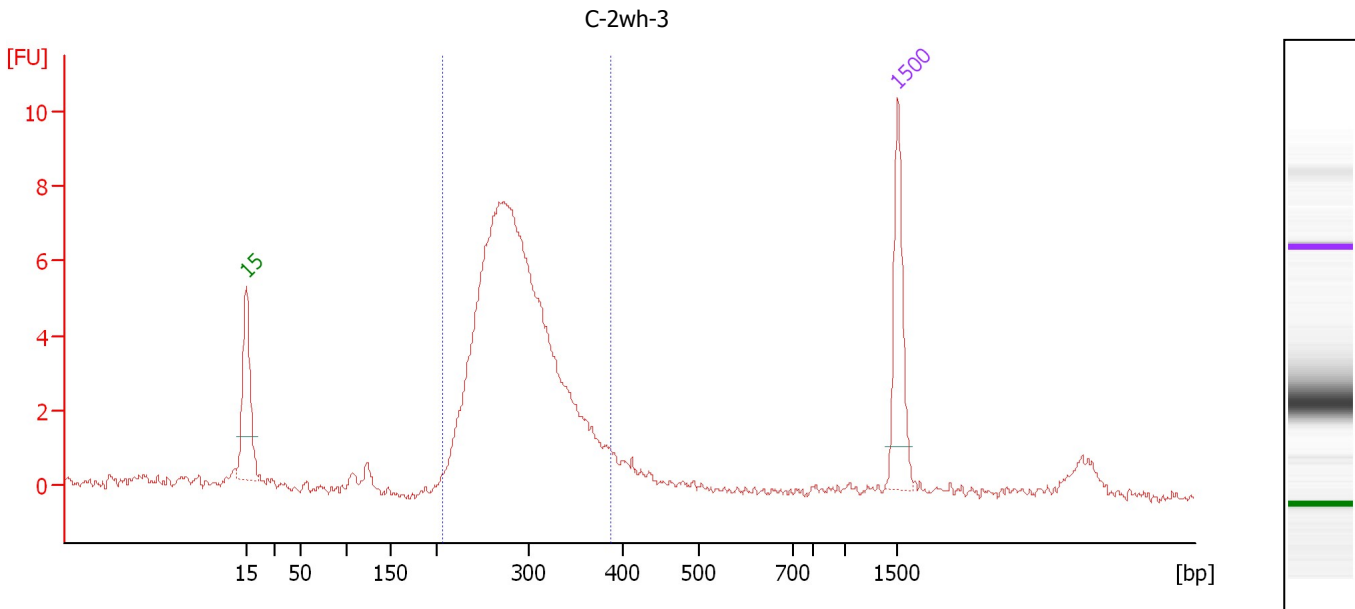
**Region table for sample 2 : C-1nh-2**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
208	383	71.4	77	134.2	296	12.2	25.77	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : C-2wh-3**

Number of peaks found: 0 Area 1: 58.8

**Peak table for sample 3 : C-2wh-3**

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

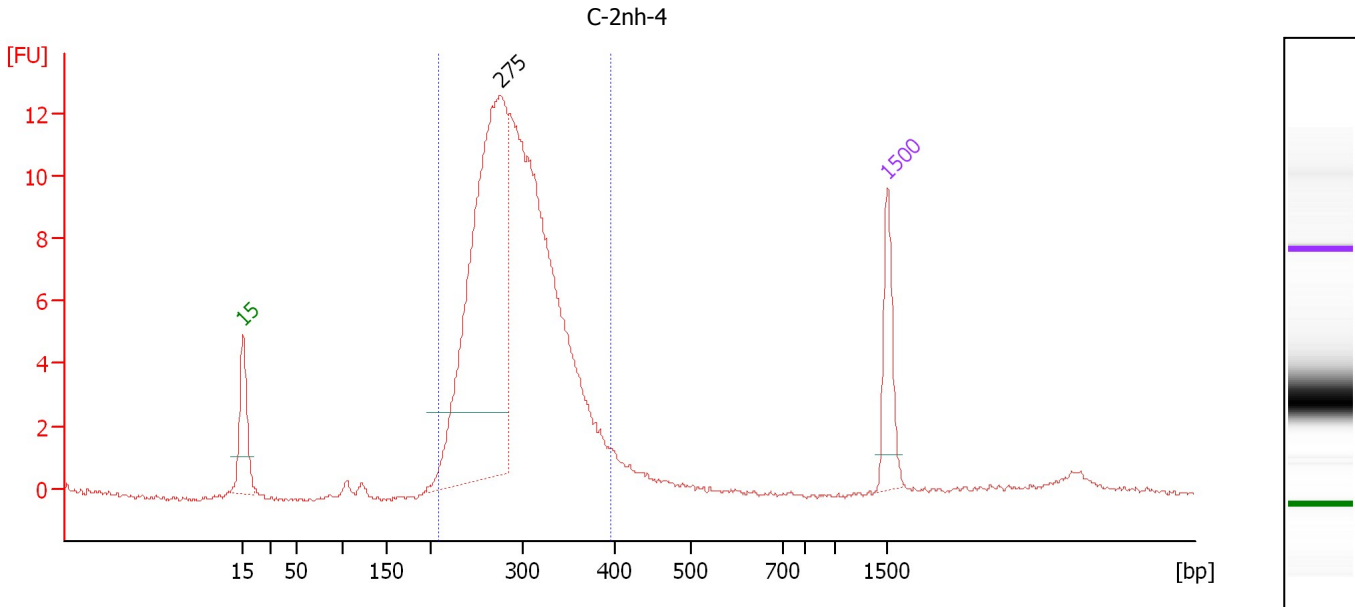
**Region table for sample 3 : C-2wh-3**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
207	389	58.8	81	111.1	289	13.5	20.80	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : C-2nh-4**

Number of peaks found: 1                      Area 1: 104.6

**Peak table for sample 4 : C-2nh-4**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	275	17.36	95.5	
3	1,500	2.10	2.1	Upper Marker

**Region table for sample 4 : C-2nh-4**

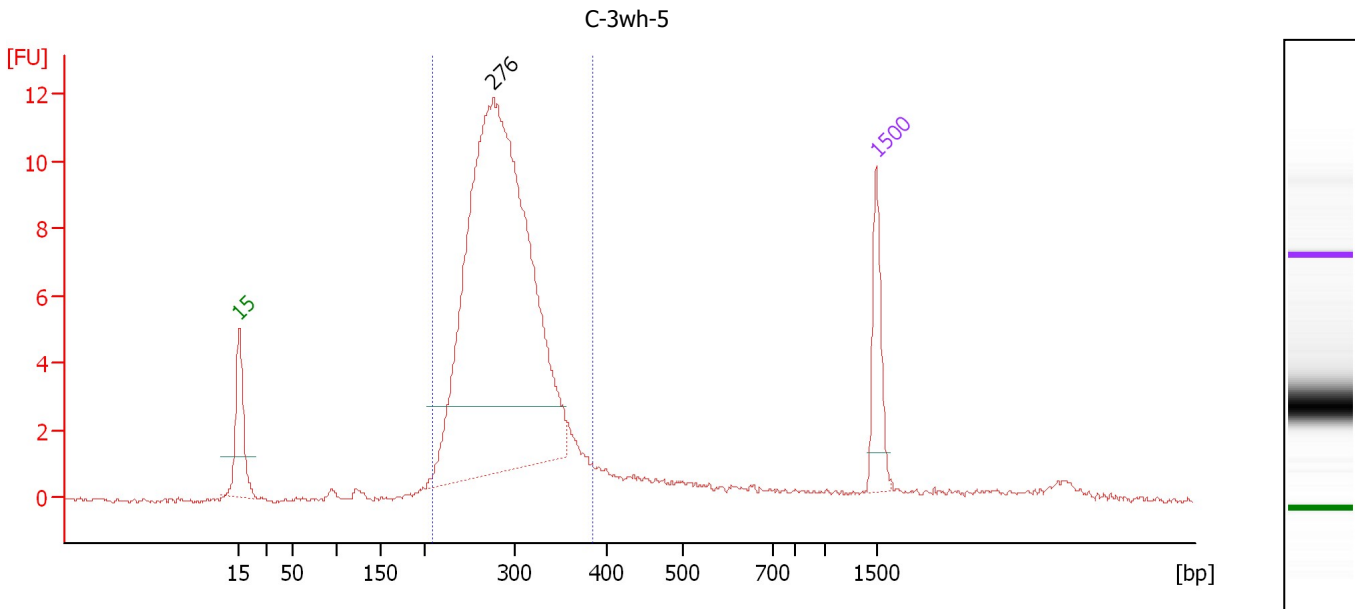
From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
208	397	104.6	91	204.6	293	13.6	38.89	Region 1



Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : C-3wh-5**

Number of peaks found: 1      Area 1: 85.5

**Peak table for sample 5 : C-3wh-5**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	276	29.60	162.7	
3	1,500	2.10	2.1	Upper Marker

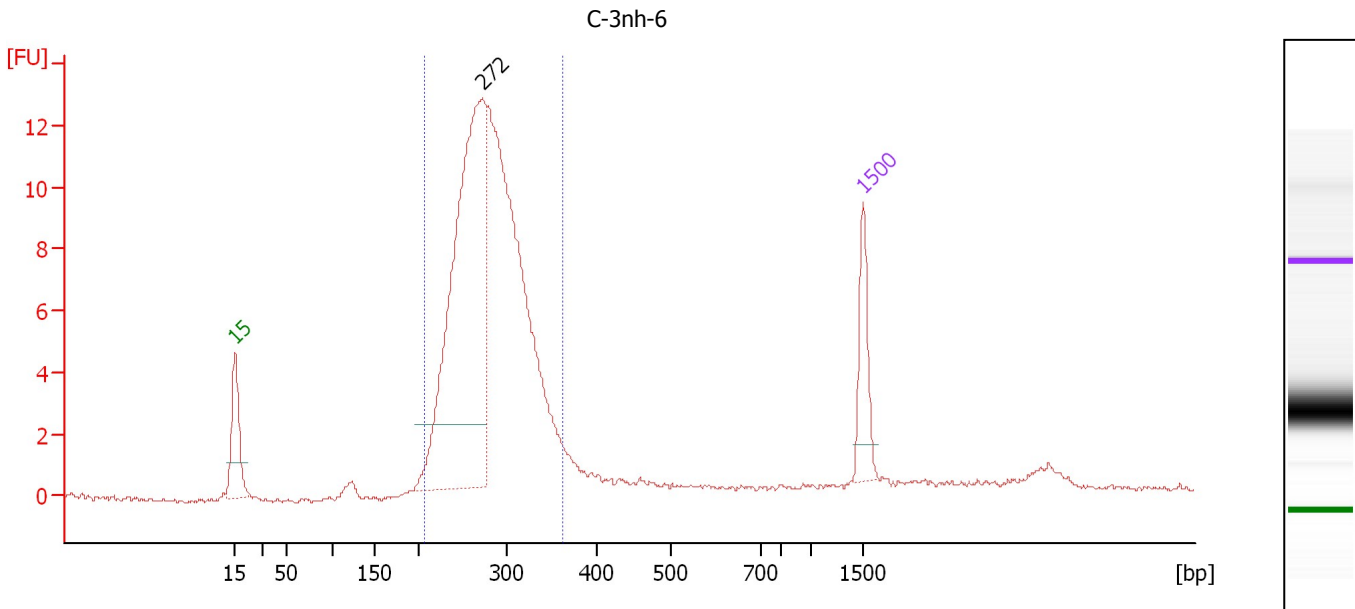
**Region table for sample 5 : C-3wh-5**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
209	386	85.5	82	182.8	287	12.6	34.18	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : C-3nh-6**

Number of peaks found: 1      Area 1: 87.7

**Peak table for sample 6 : C-3nh-6**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	272	17.89	99.6	
3	1,500	2.10	2.1	Upper Marker

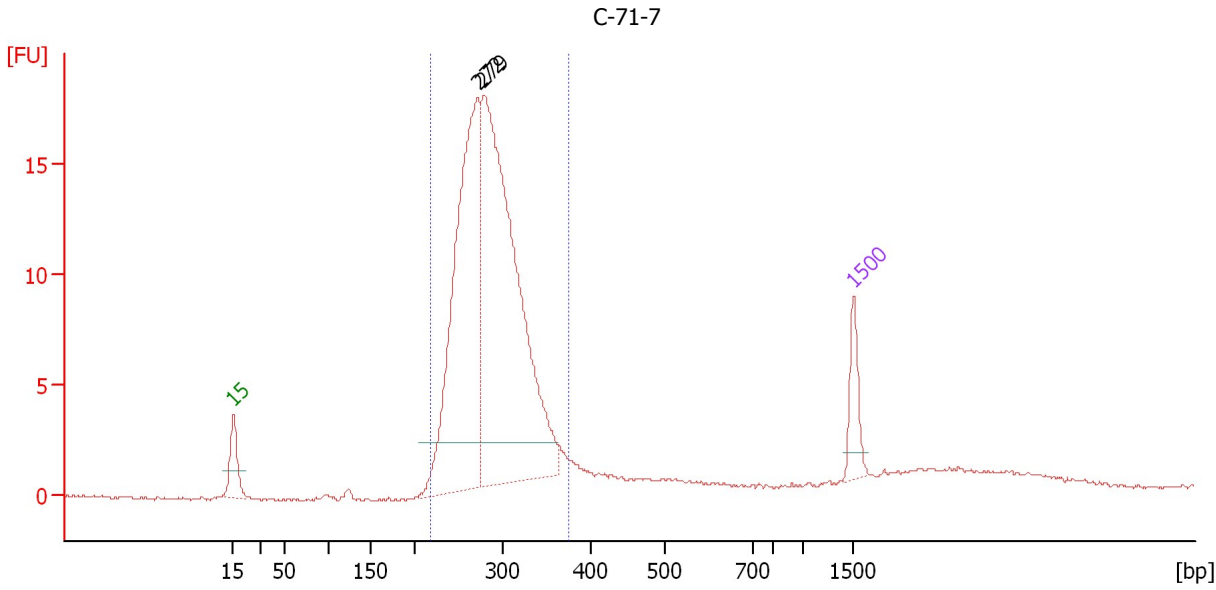
**Region table for sample 6 : C-3nh-6**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
207	362	87.7	85	204.2	281	11.8	37.38	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : C-71-7**

Number of peaks found: 2                      Area 1: 112.7

**Peak table for sample 7 : C-71-7**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	272	21.58	120.1	
3	279	30.09	163.5	
4	1,500	2.10	2.1	Upper Marker

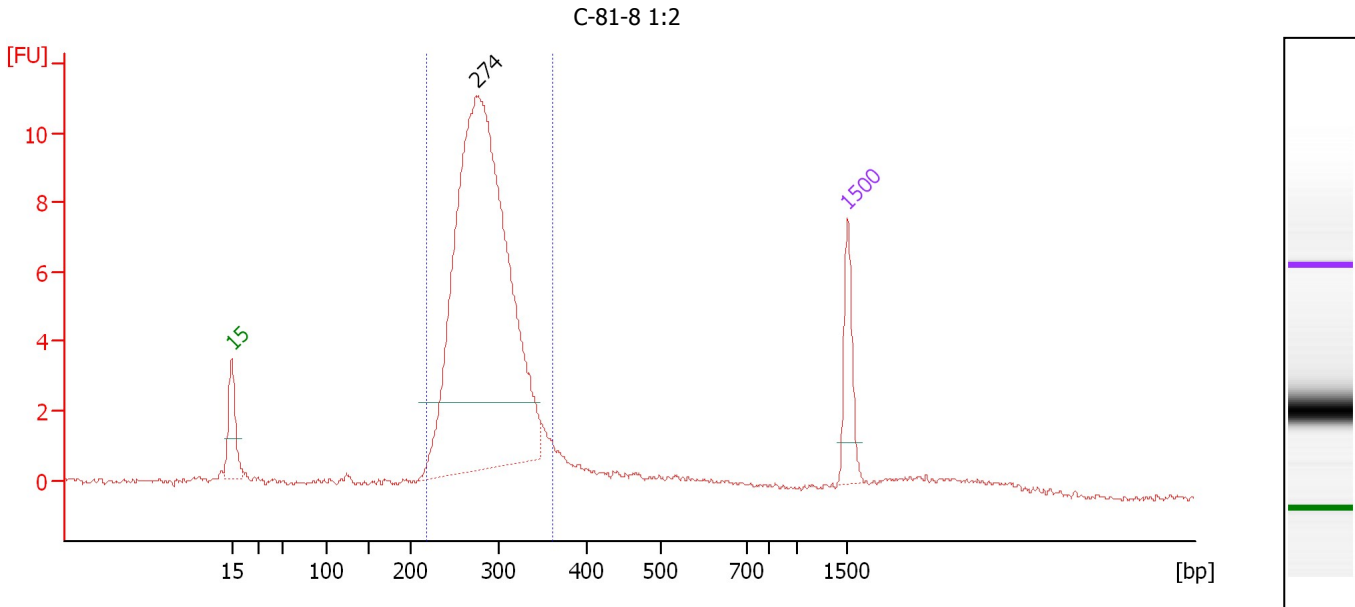
**Region table for sample 7 : C-71-7**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
219	375	112.7	83	285.7	287	11.1	53.50	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : C-81-8 1:2**

Number of peaks found: 1      Area 1: 65.1

**Peak table for sample 8 : C-81-8 1:2**

Peak	Size [bp]	Conc. [ng/µl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	274	31.54	174.3	
3	1,500	2.10	2.1	Upper Marker

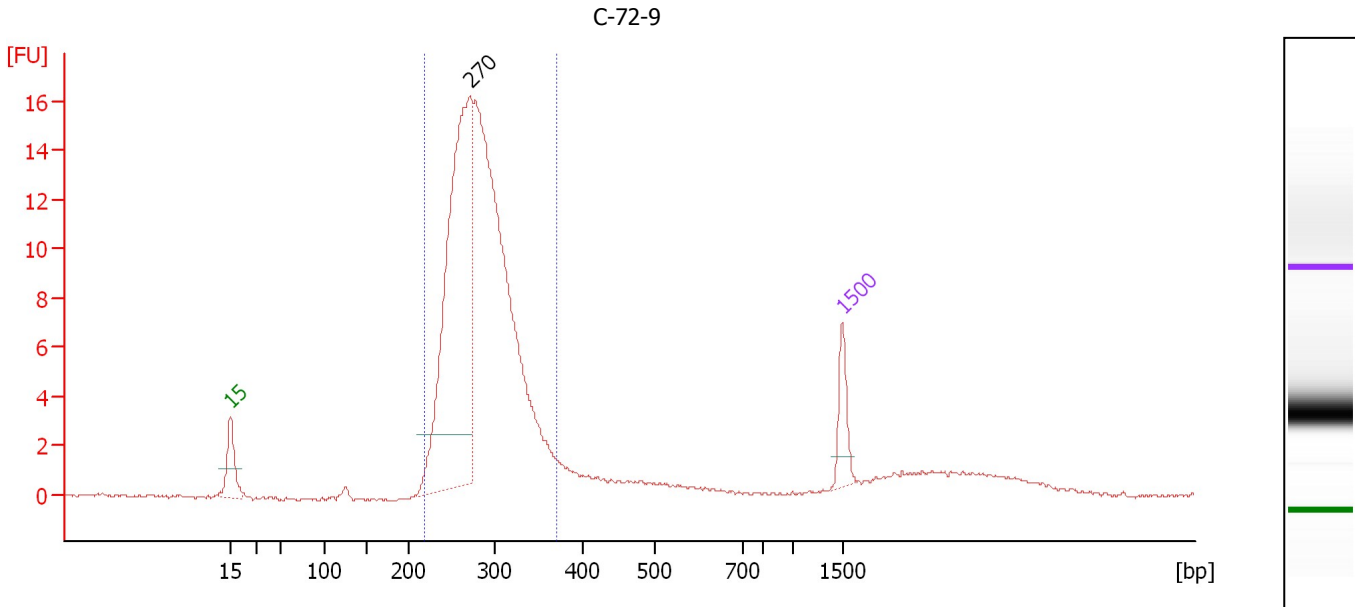
**Region table for sample 8 : C-81-8 1:2**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/µl]	Co Name
218	361	65.1	80	184.2	284	10.5	34.24	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : C-72-9**

Number of peaks found: 1      Area 1: 98.0

**Peak table for sample 9 : C-72-9**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	270	26.28	147.3	
3	1,500	2.10	2.1	Upper Marker

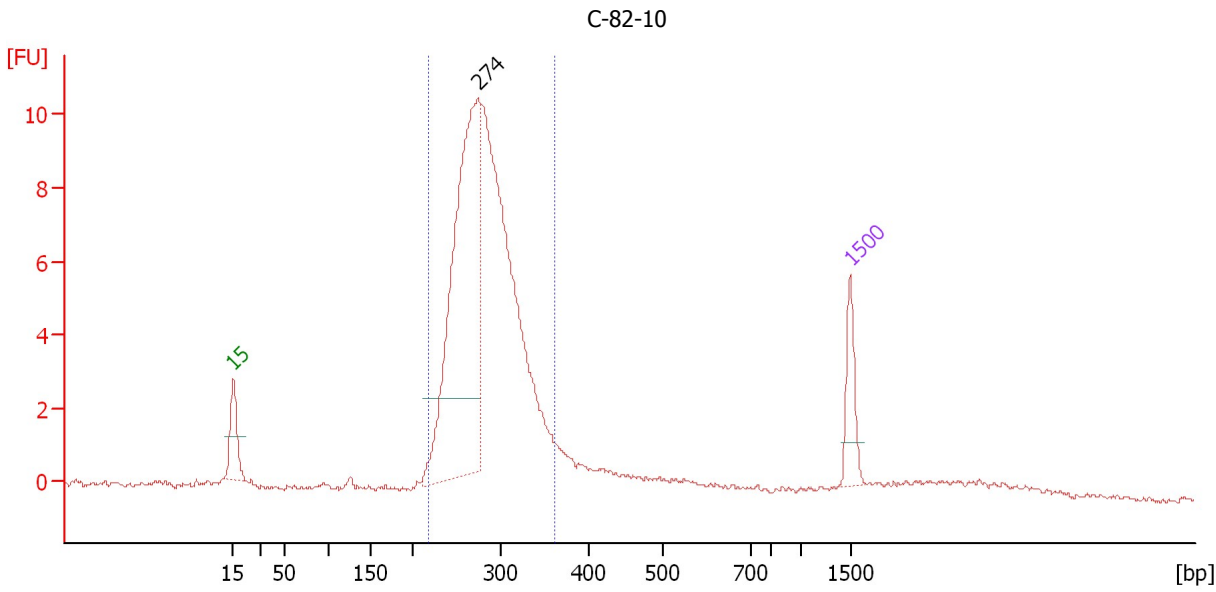
**Region table for sample 9 : C-72-9**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
219	369	98.0	82	332.2	284	11.0	61.48	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : C-82-10**

Number of peaks found: 1      Area 1: 63.3

**Peak table for sample 10 : C-82-10**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	274	20.75	114.9	
3	1,500	2.10	2.1	Upper Marker

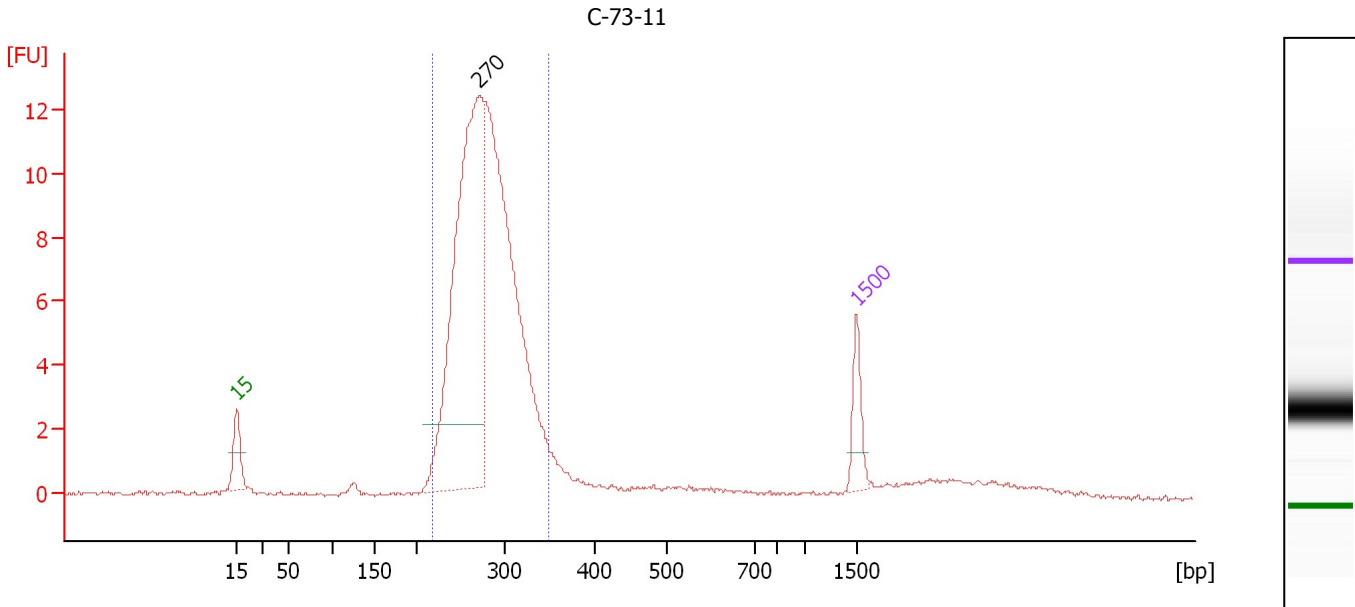
**Region table for sample 10 : C-82-10**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
218	361	63.3	82	245.3	283	10.8	45.37	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : C-73-11**

Number of peaks found: 1      Area 1: 73.3

**Peak table for sample 11 : C-73-11**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	270	27.11	152.2	
3	1,500	2.10	2.1	Upper Marker

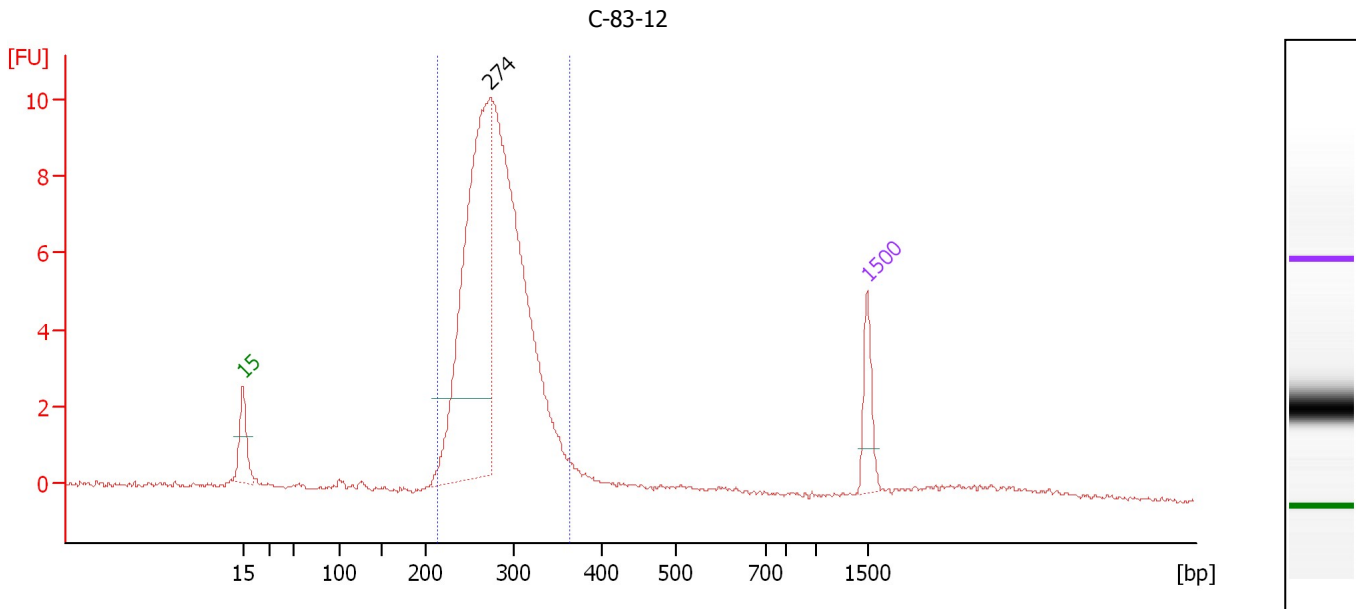
**Region table for sample 11 : C-73-11**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
217	349	73.3	83	297.6	279	10.2	54.28	Region 1

Assay Class: DNA 1000  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
 Modified: 12/20/2012 11:56:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : C-83-12**

Number of peaks found: 1      Area 1: 61.7

**Peak table for sample 12 : C-83-12**

Peak	Size [bp]	Conc. [ng/μl]	Molarity [nmol/l]	Observations
1	15	4.20	424.2	Lower Marker
2	274	22.01	121.8	
3	1,500	2.10	2.1	Upper Marker

**Region table for sample 12 : C-83-12**

From [bp]	To [bp]	Area	% of Total	Molarity [nmol/l]	Average Size [bp]	Size distribution in CV [%]	Conc. [ng/μl]	Co Name
215	363	61.7	87	262.4	281	10.8	48.26	Region 1



Assay Class: DNA 1000  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-20\2012-12-20\_001.xad

Created: 12/20/2012 11:12:18 AM  
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**Gel Image**

