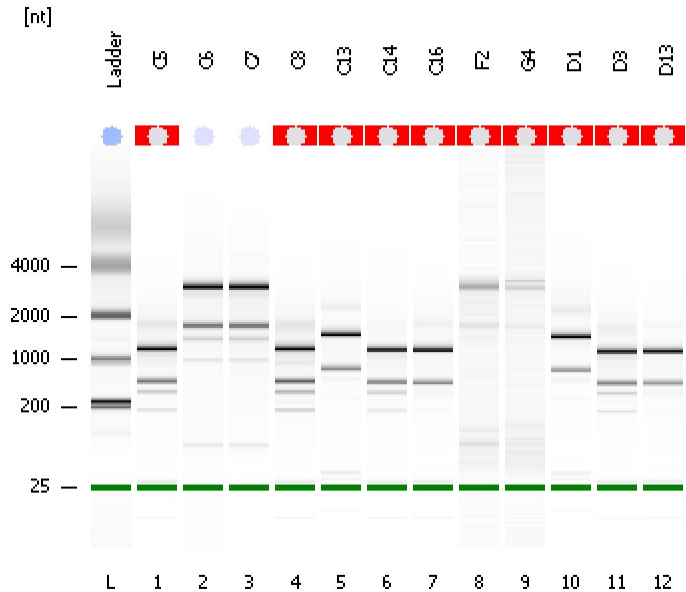


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086  
Serial#: DE13701086

Firmware: C.01.069  
Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy

Assay Class: Eukaryote Total RNA Nano

Version: 2.6

Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

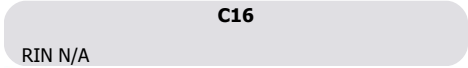
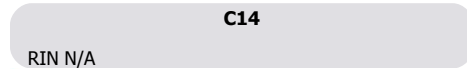
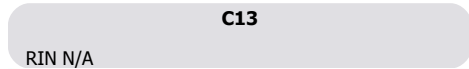
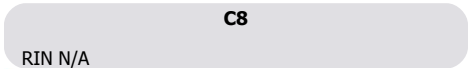
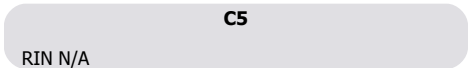
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
C5		✓	RIN N/A	
C6		✓	RIN: 6.10	
C7		✓	RIN: 5.90	
C8		✓	RIN N/A	
C13		✓	RIN N/A	
C14		✓	RIN N/A	
C16		✓	RIN N/A	
F2		✓	RIN N/A	
G4		✓	RIN N/A	
D1		✓	RIN N/A	
D3		✓	RIN N/A	
D13		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
Ladder Concentration [ng/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

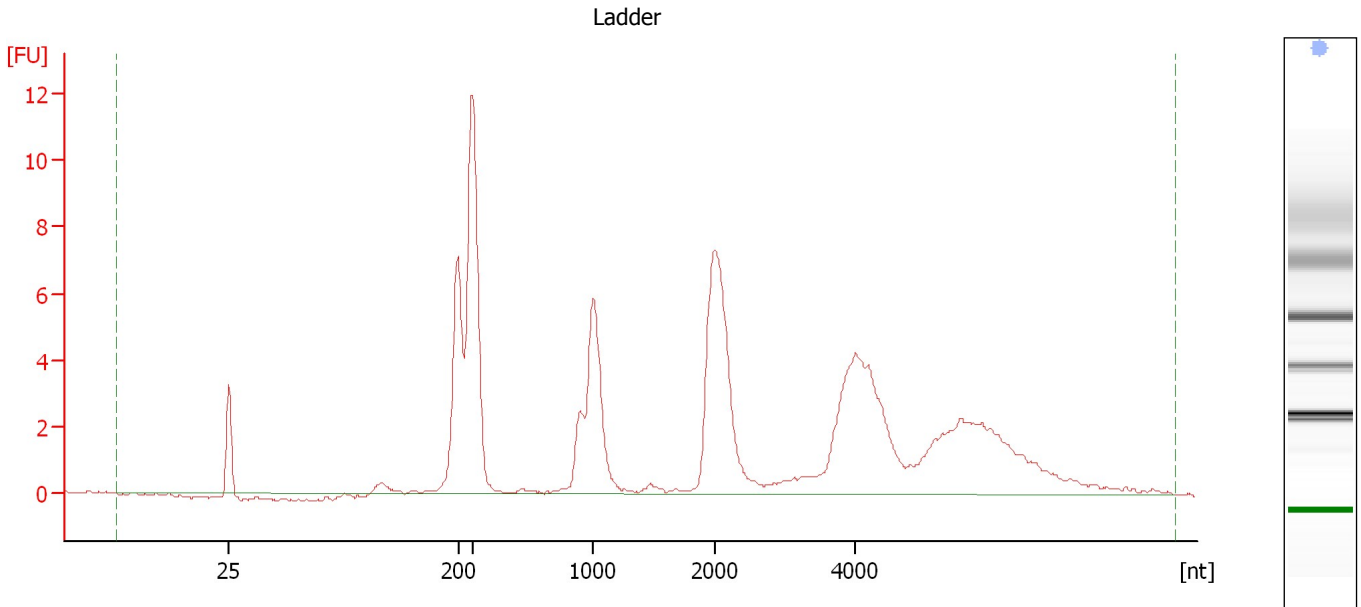
### Ladder

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary**



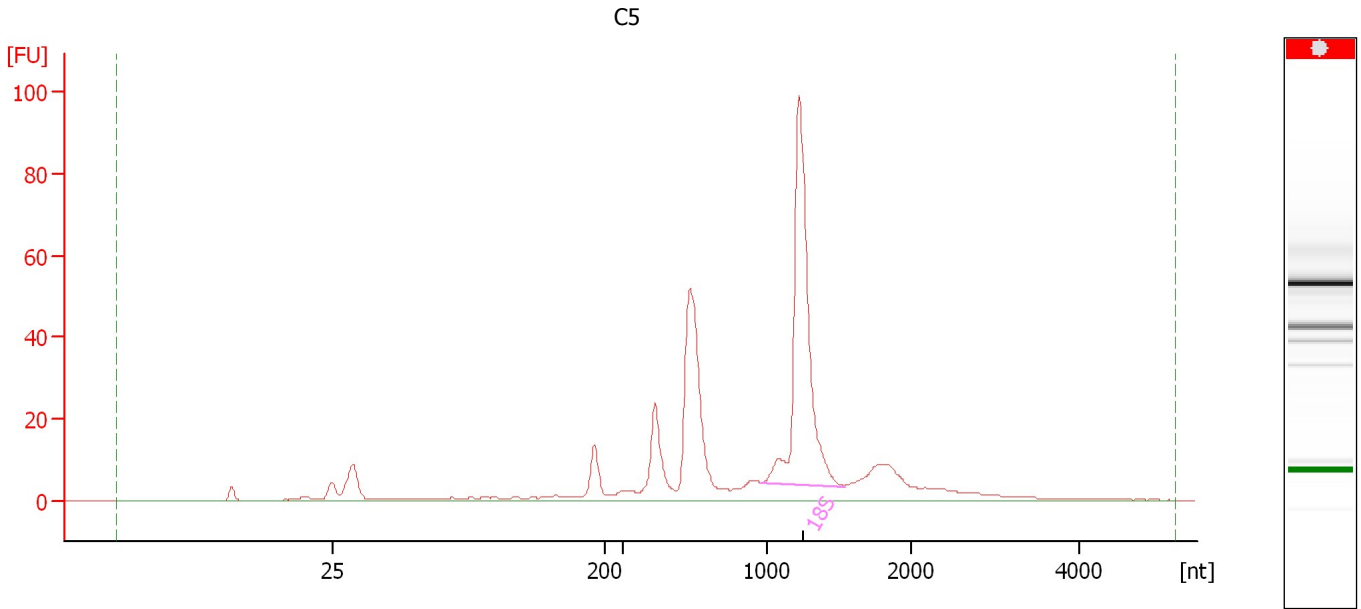
**Overall Results for Ladder**

RNA Area:	101.9	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : C5**

RNA Area:	429.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	632 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

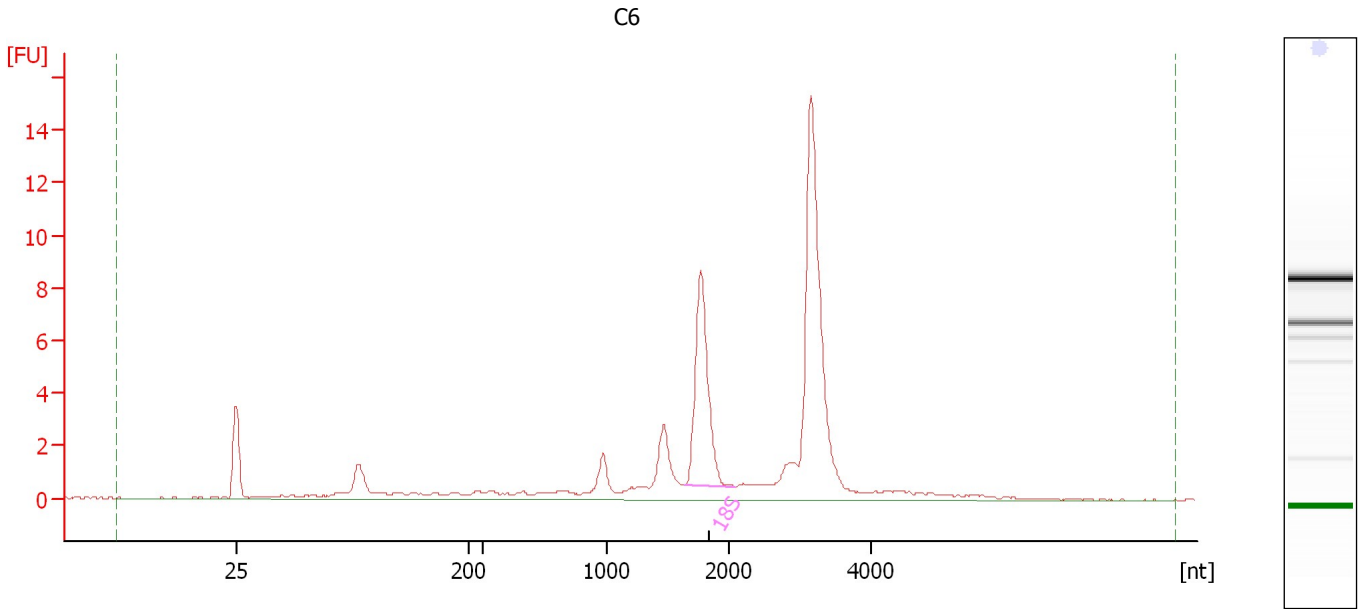
**Fragment table for sample 1 : C5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	980	1,540	140.5	32.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : C6**

RNA Area:	65.5	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	96 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.10

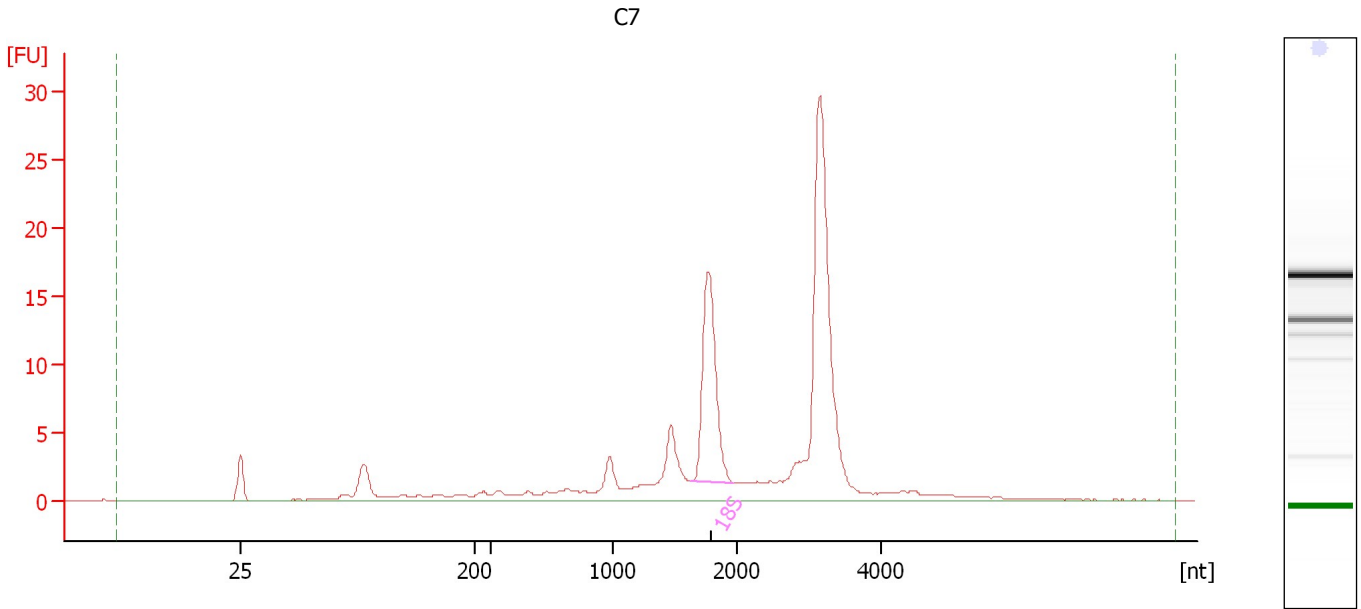
**Fragment table for sample 2 : C6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,638	2,083	11.9	18.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : C7**

RNA Area:	132.9	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	196 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

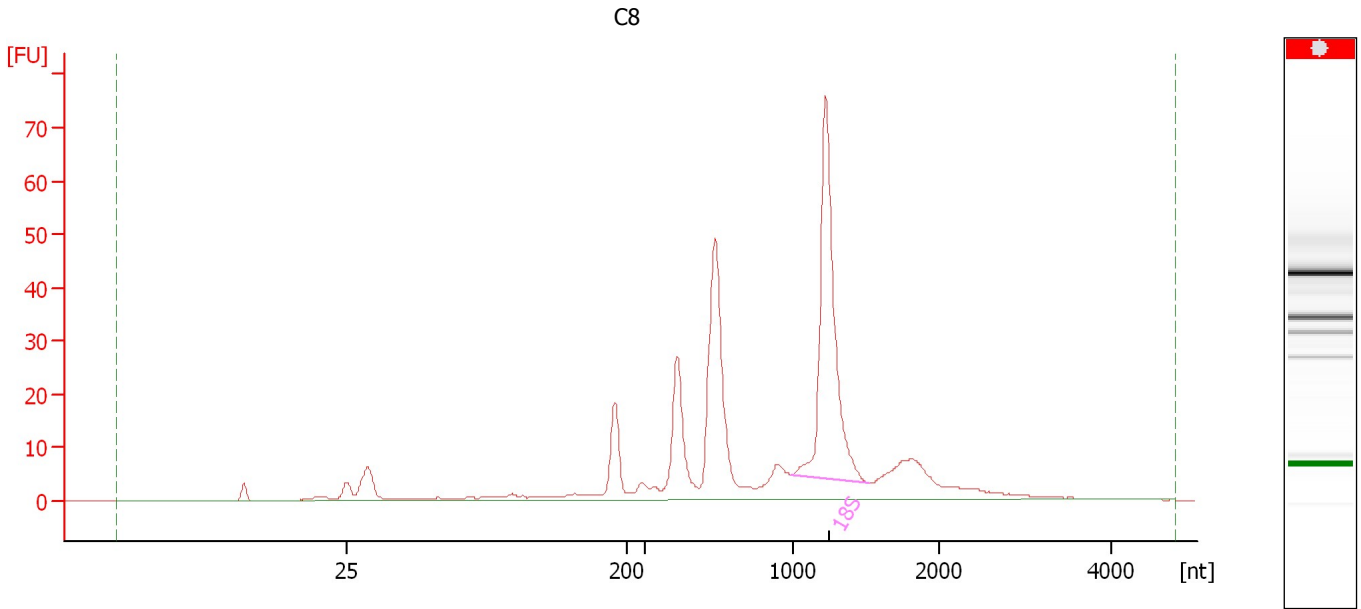
**Fragment table for sample 3 : C7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,973	23.1	17.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : C8**

RNA Area:	369.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	544 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 4 : C8**

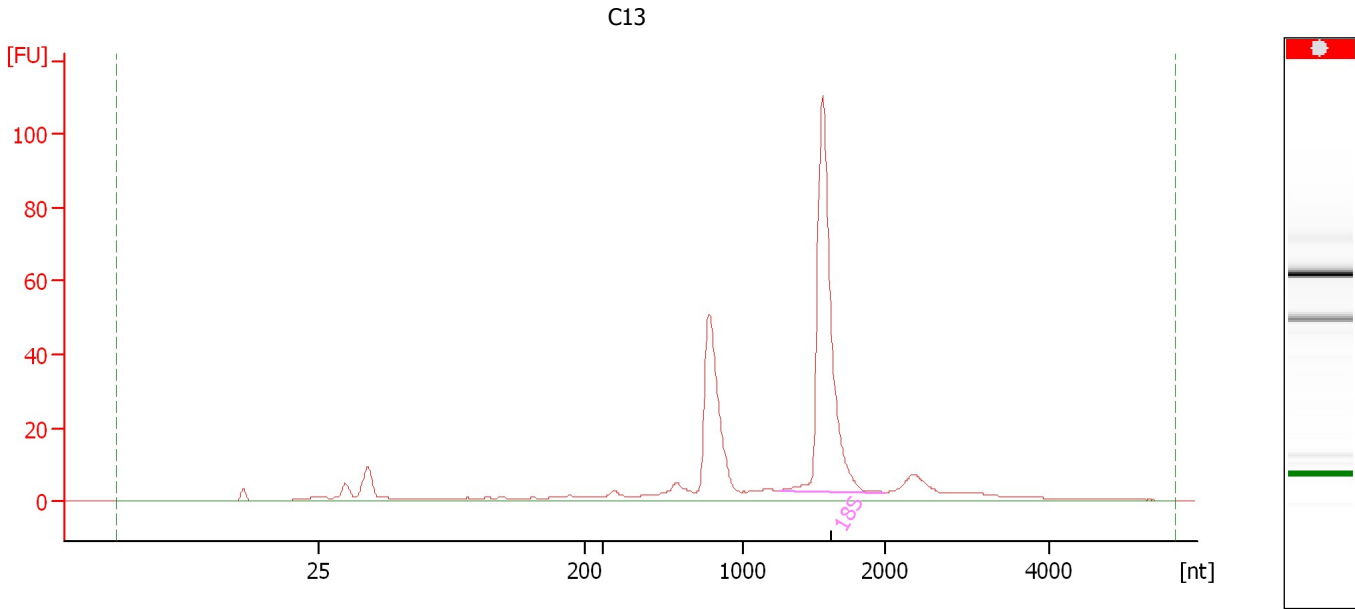
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	997	1,515	103.1	27.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : C13**

RNA Area:	371.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	547 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

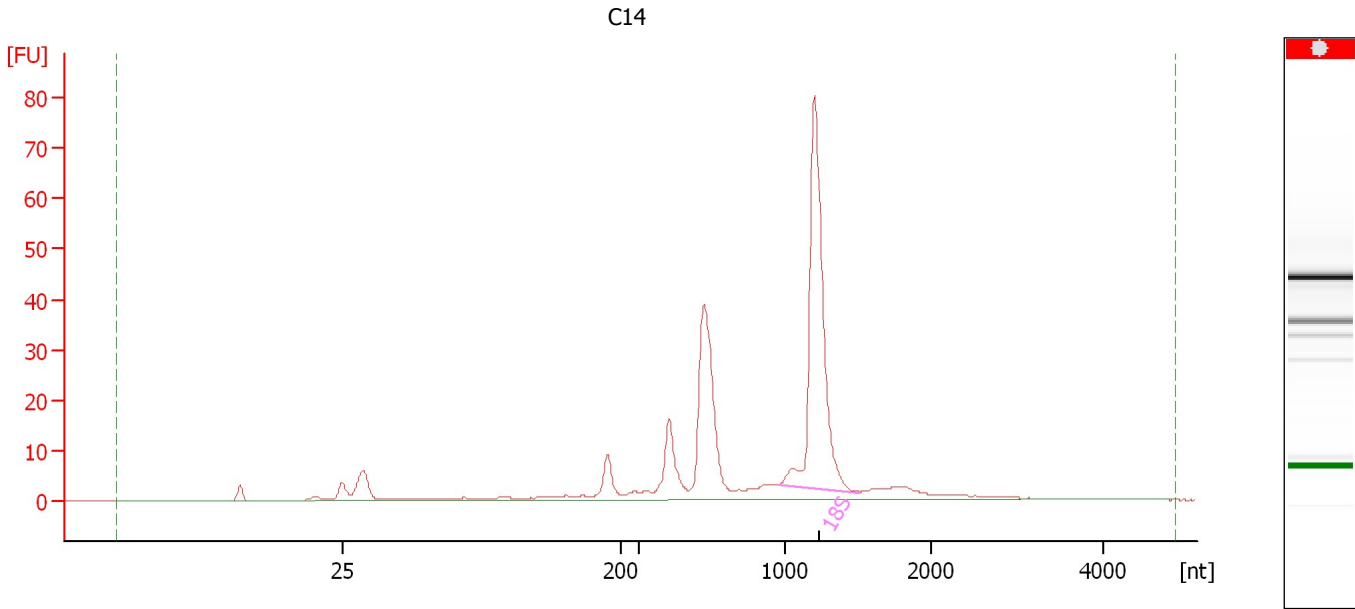
**Fragment table for sample 5 : C13**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,256	2,011	148.9	40.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : C14**

RNA Area:	291.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	429 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

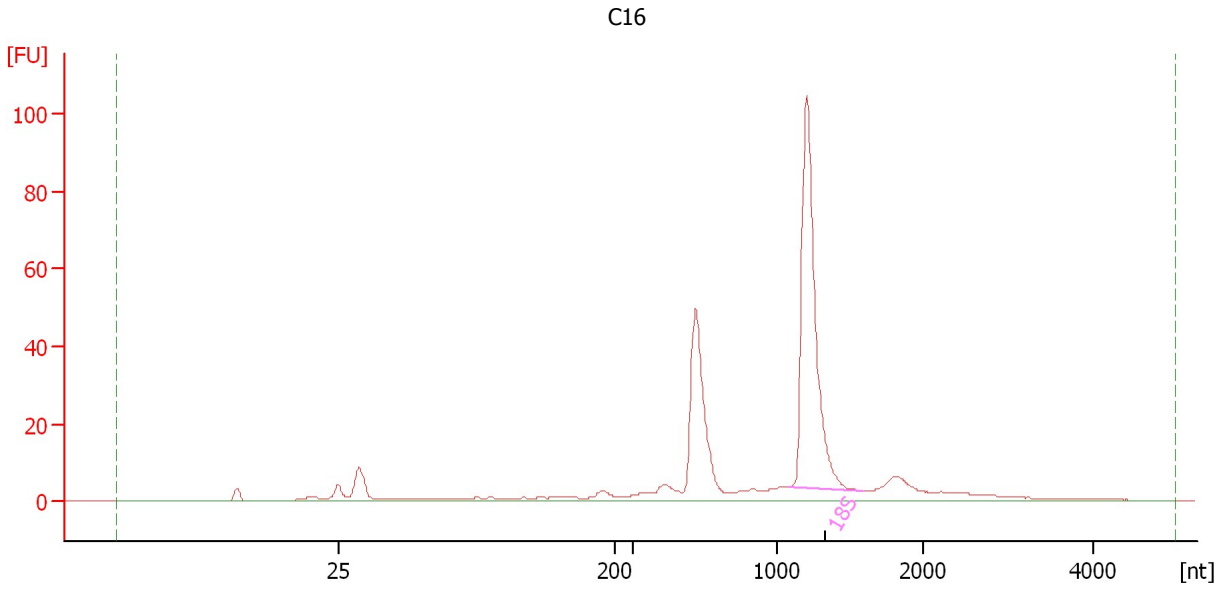
**Fragment table for sample 6 : C14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	978	1,510	107.9	37.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
 Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : C16**

RNA Area:	349.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	515 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

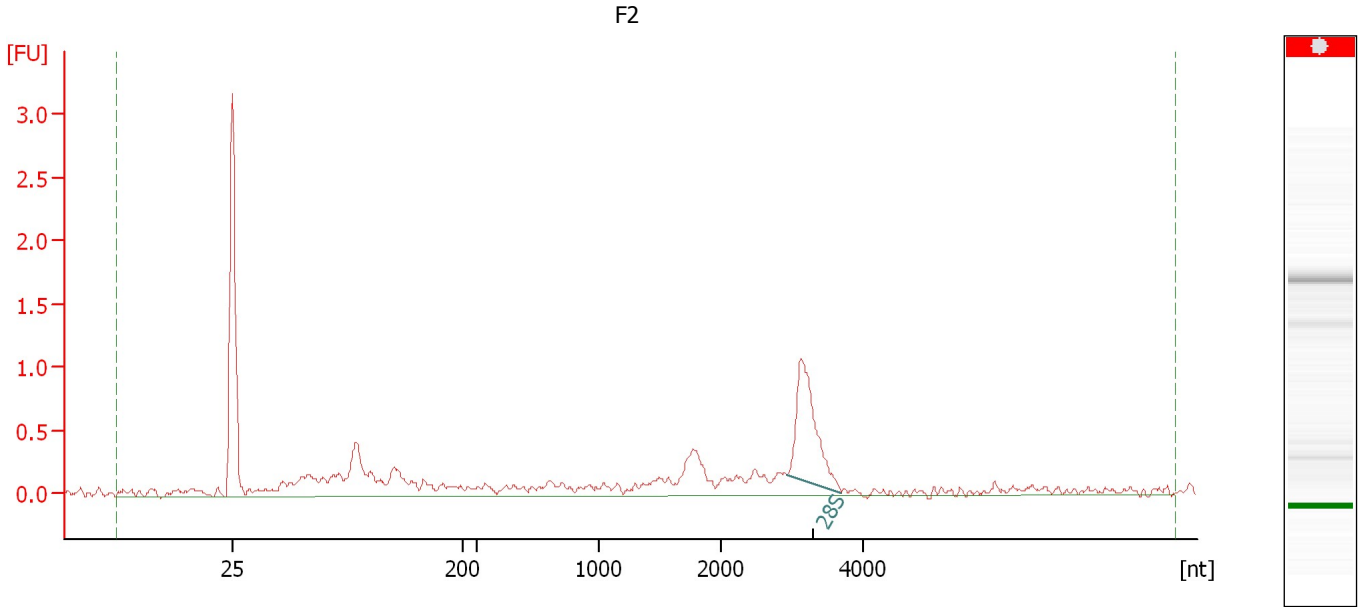
**Fragment table for sample 7 : C16**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,071	1,585	141.0	40.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
 Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : F2**

RNA Area:	11.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	16 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

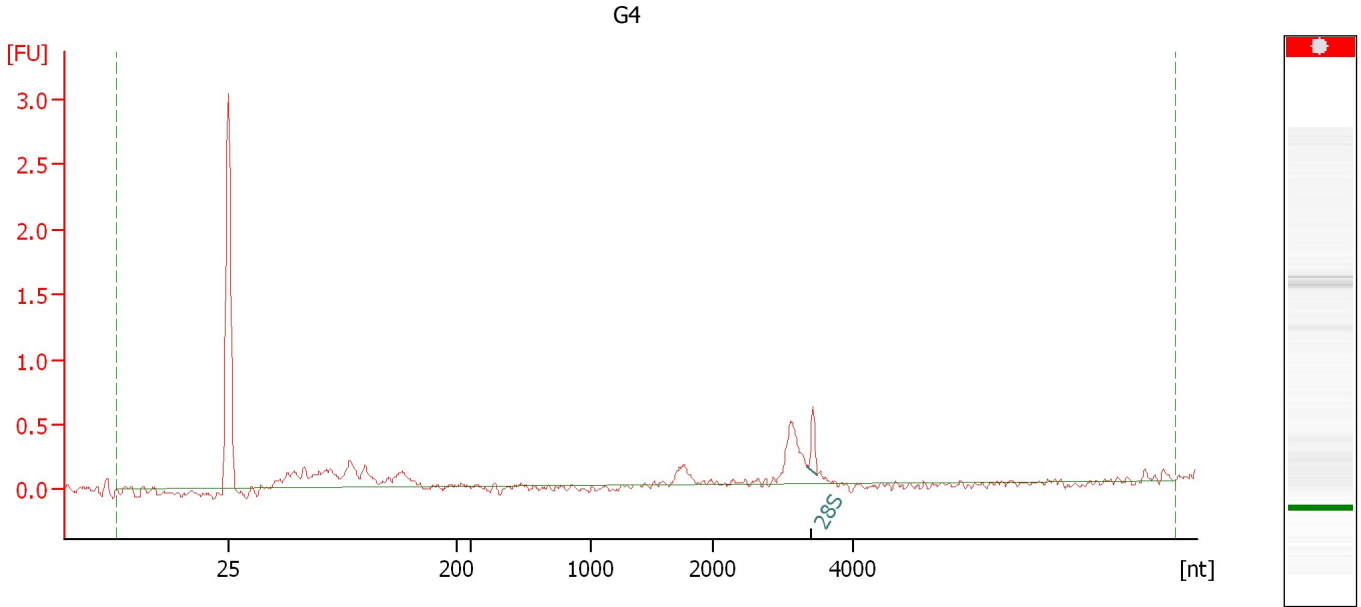
**Fragment table for sample 8 : F2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,937	3,705	1.9	16.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : G4**

RNA Area:	4.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

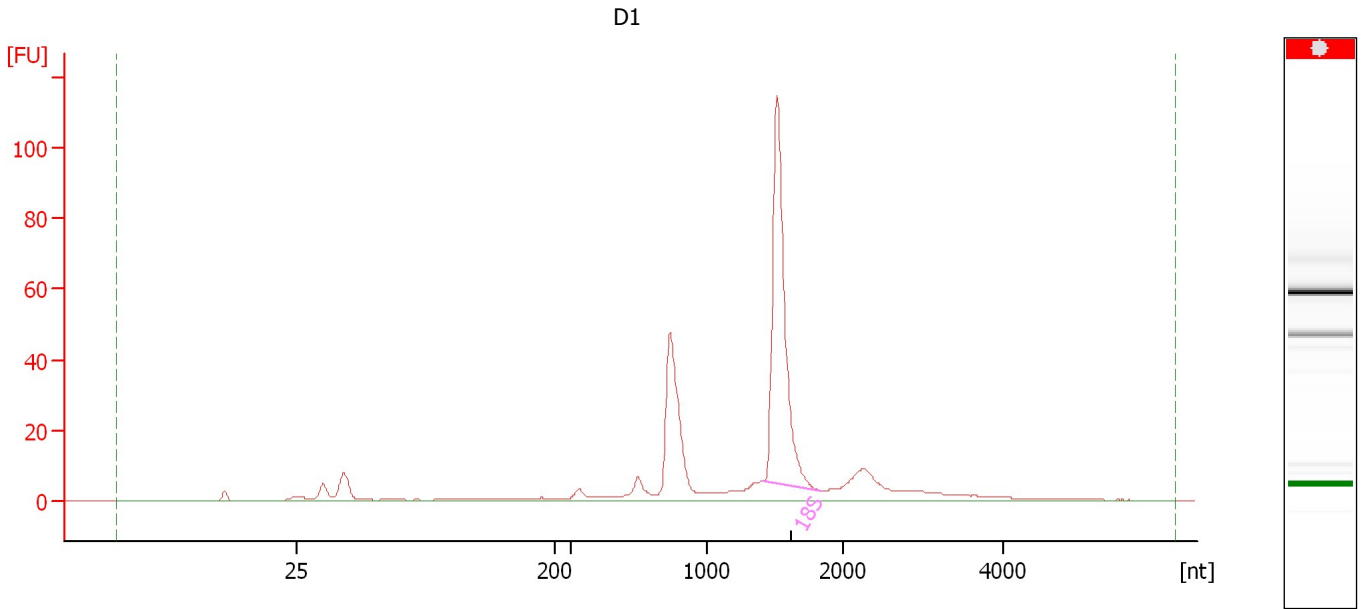
**Fragment table for sample 9 : G4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	3,334	3,501	0.2	5.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : D1**

RNA Area:	371.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	547 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

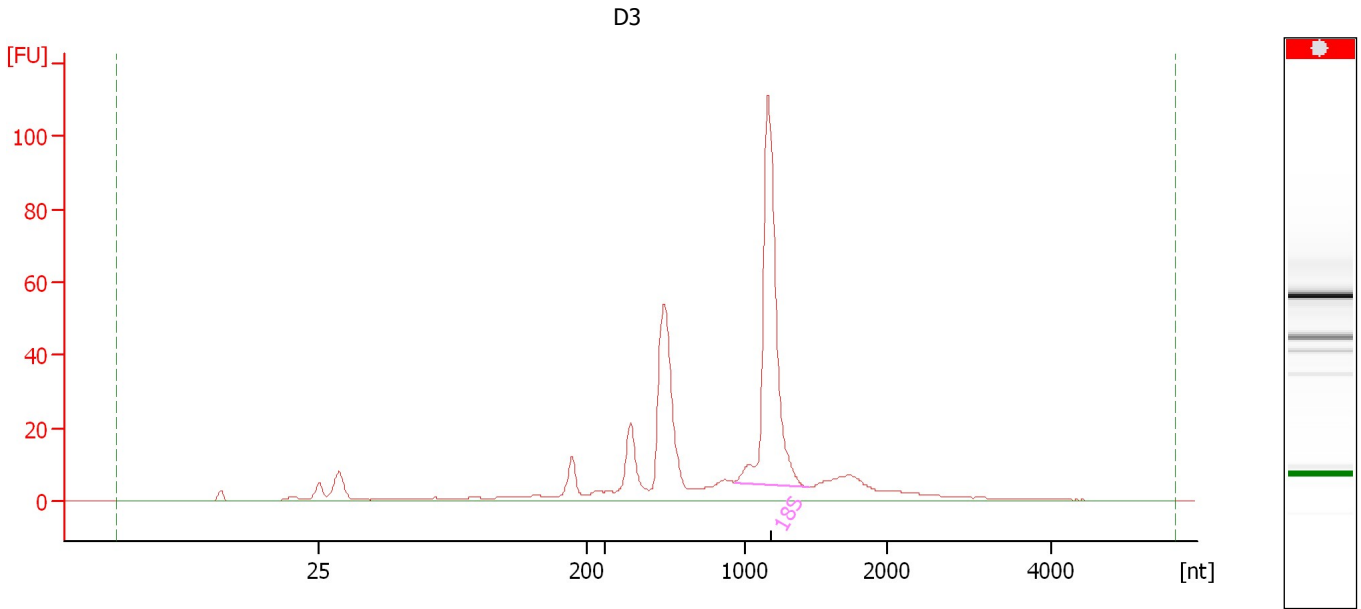
**Fragment table for sample 10 : D1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,412	1,836	142.1	38.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : D3**

RNA Area:	437.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	644 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

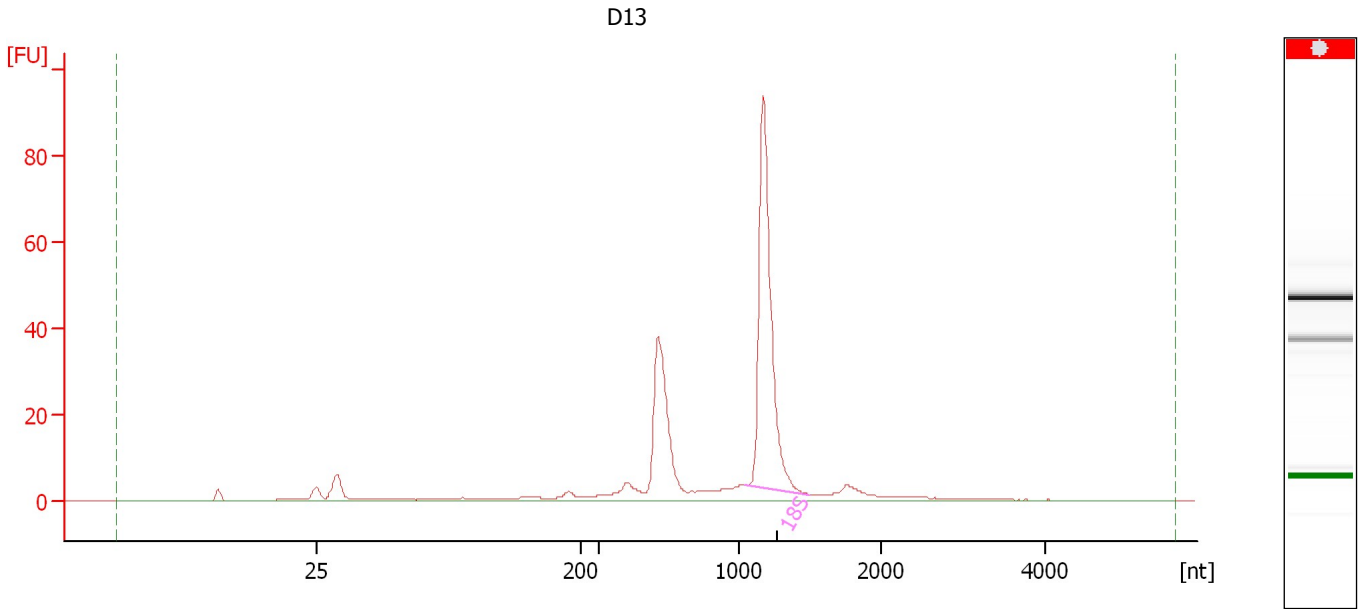
**Fragment table for sample 11 : D3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	962	1,447	148.1	33.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : D13**

RNA Area:	279.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	412 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 12 : D13**

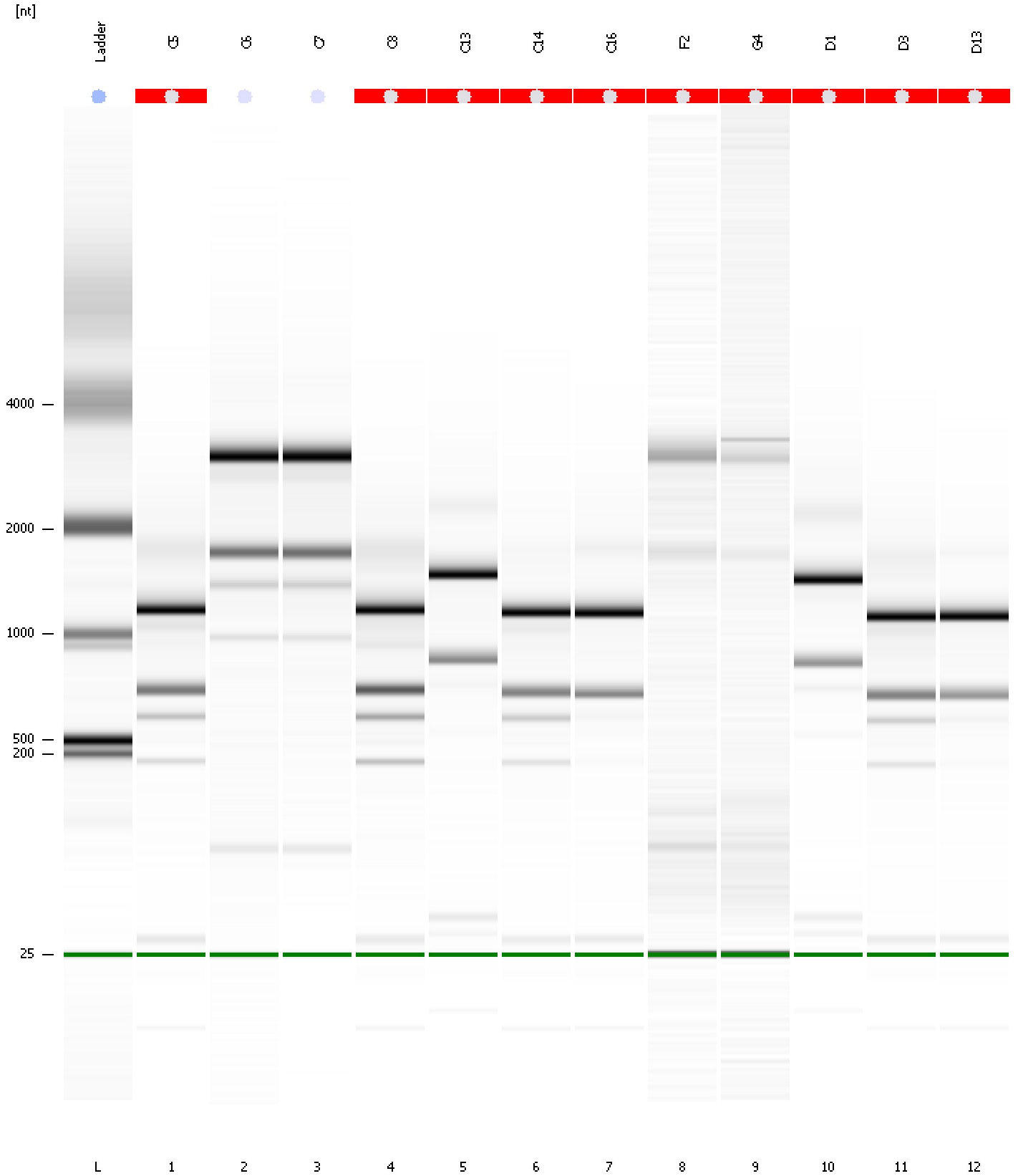
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,031	1,495	119.2	42.6



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
Modified: 8/26/2013 2:10:47 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-26\2013-08-26\_002.xad

Created: 8/26/2013 1:46:57 PM  
 Modified: 8/26/2013 2:10:47 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		8/26/2013 2:10:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-26\2013-08-26_002.xad)		Instrument	Run		8/26/2013 1:47:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/26/2013 1:47:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/26/2013 1:47:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/26/2013 1:47:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/26/2013 1:47:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/26/2013 1:47:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/26/2013 1:47:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1