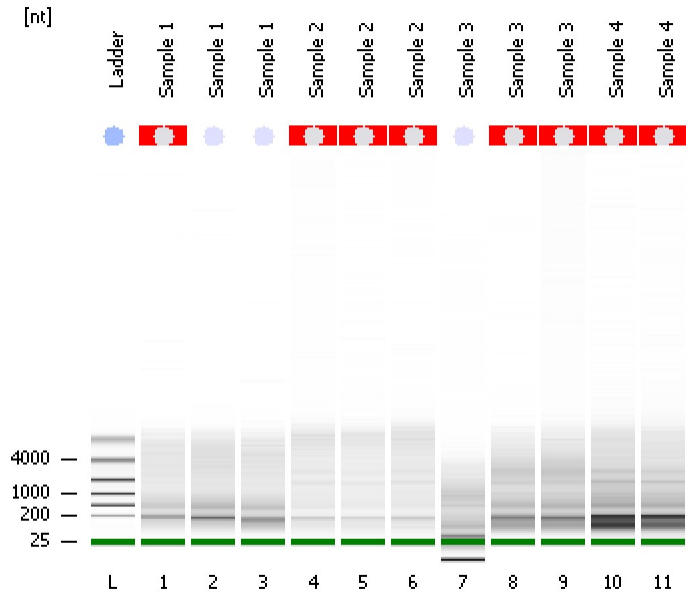


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

Electrophoresis File Run Summary



Instrument Information:

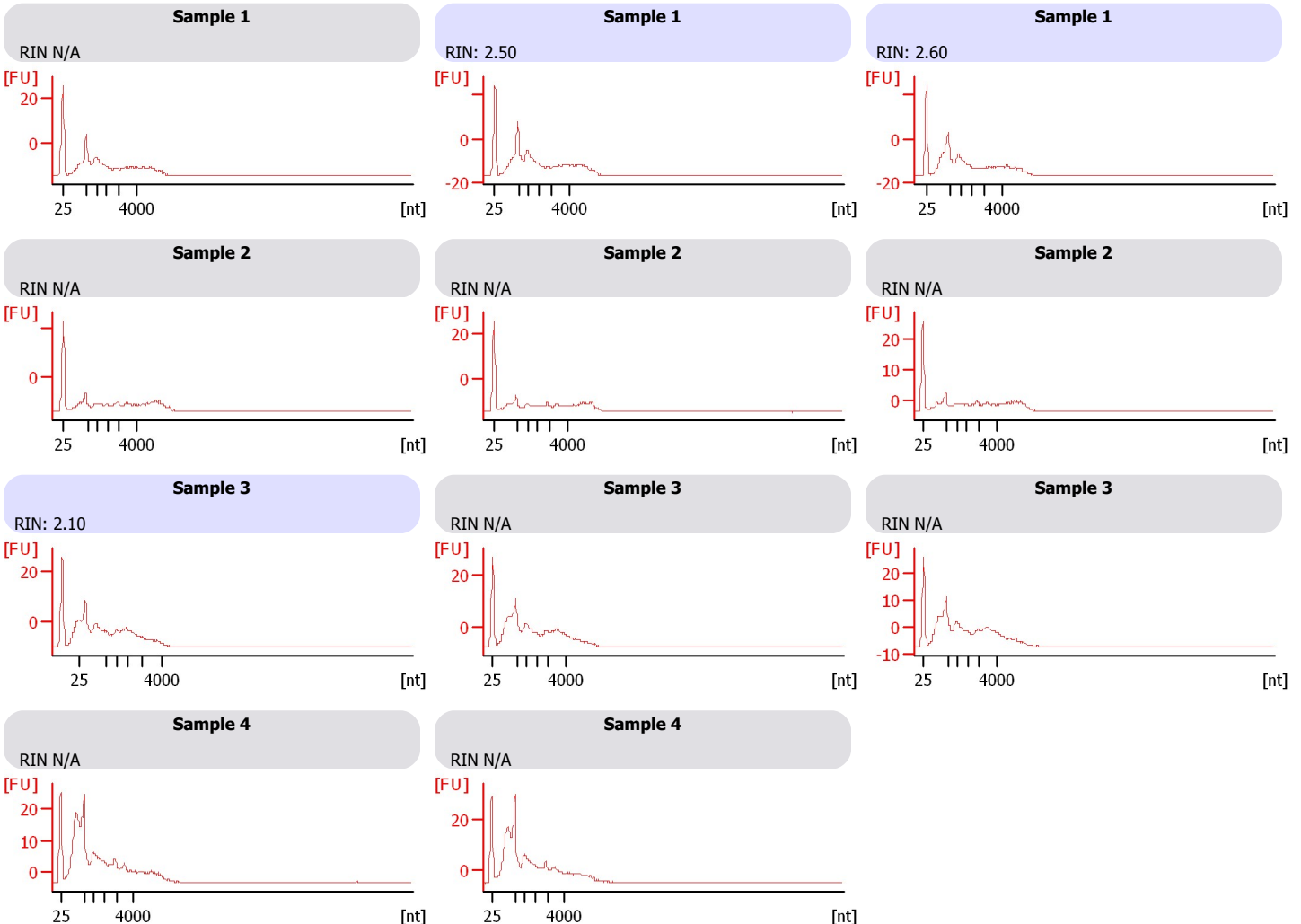
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy  
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN N/A	
Sample 1		✓	RIN: 2.50	
Sample 1		✓	RIN: 2.60	
Sample 2		✓	RIN N/A	
Sample 2		✓	RIN N/A	
Sample 2		✓	RIN N/A	
Sample 3		✓	RIN: 2.10	
Sample 3		✓	RIN N/A	
Sample 3		✓	RIN N/A	
Sample 4		✓	RIN N/A	
Sample 4		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

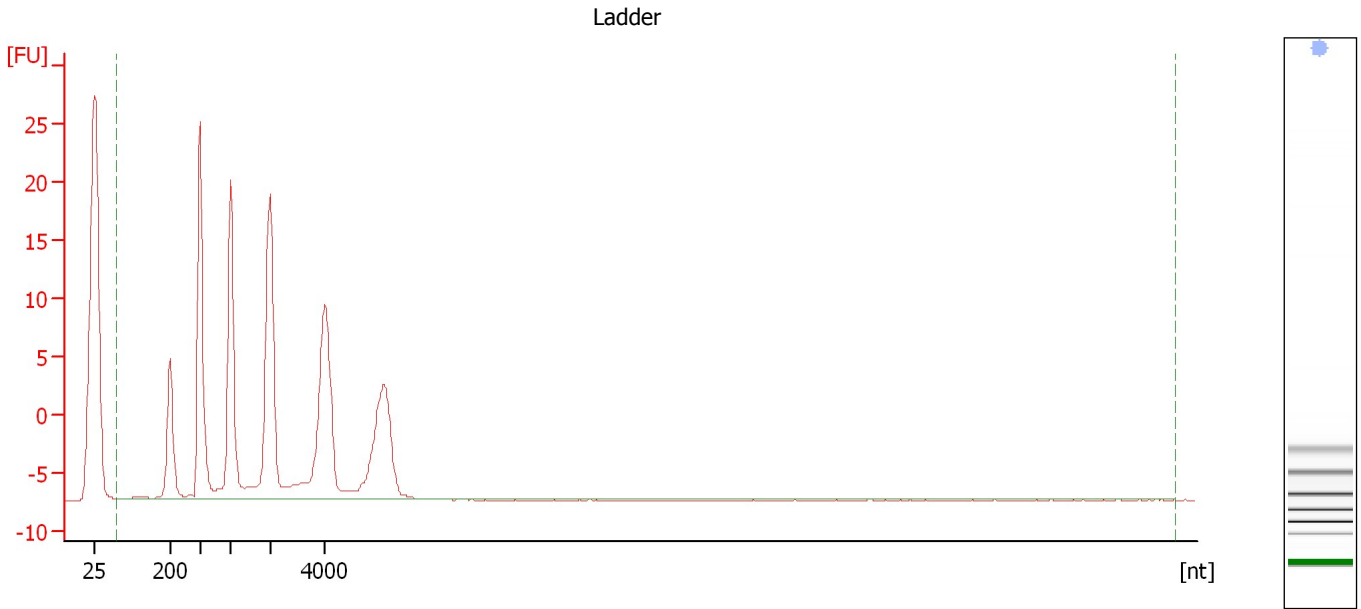
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary**



**Overall Results for Ladder**

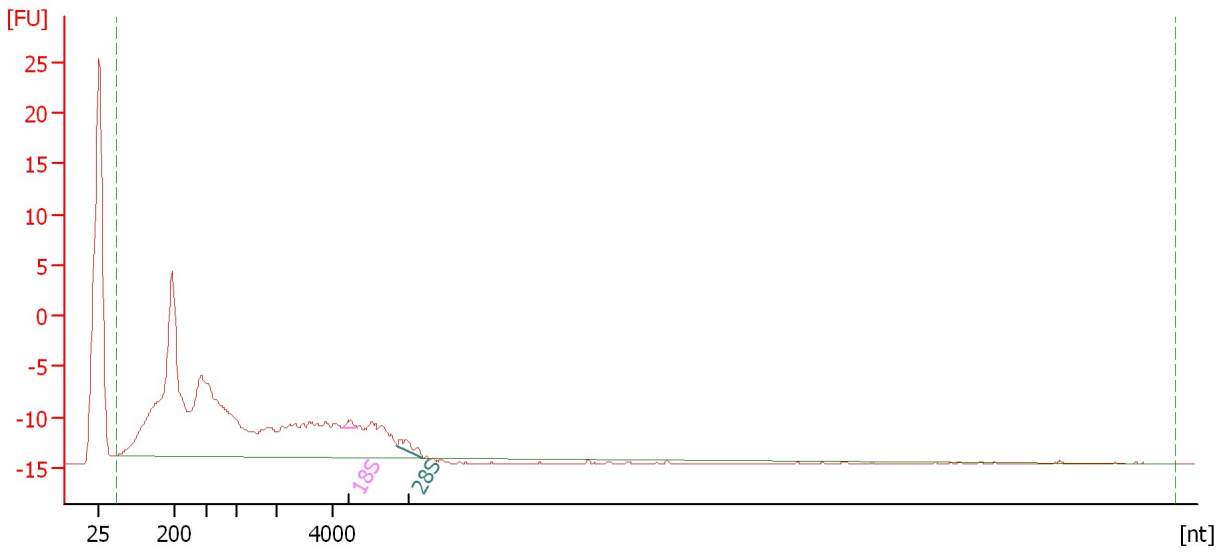
RNA Area:	160.3	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 1



**Overall Results for sample 1 : Sample 1**

RNA Area:	174.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,091 pg/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]:	2.8	Result Flagging Label:	RIN N/A

**Fragment table for sample 1 : Sample 1**

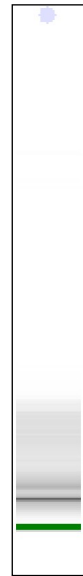
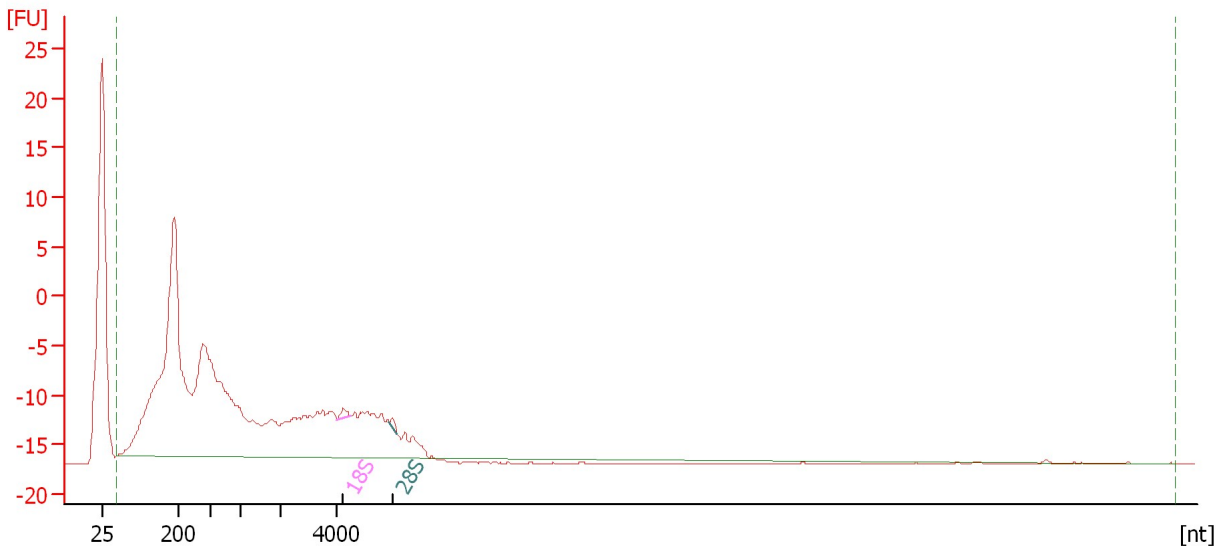
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,405	4,900	0.8	0.4
28S	6,308	7,259	2.1	1.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 1



**Overall Results for sample 2 : Sample 1**

RNA Area: 263.8                      RNA Integrity Number (RIN): 2.5 (B.02.08)  
RNA Concentration: 1,646 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.6                      Result Flagging Label: RIN: 2.50

**Fragment table for sample 2 : Sample 1**

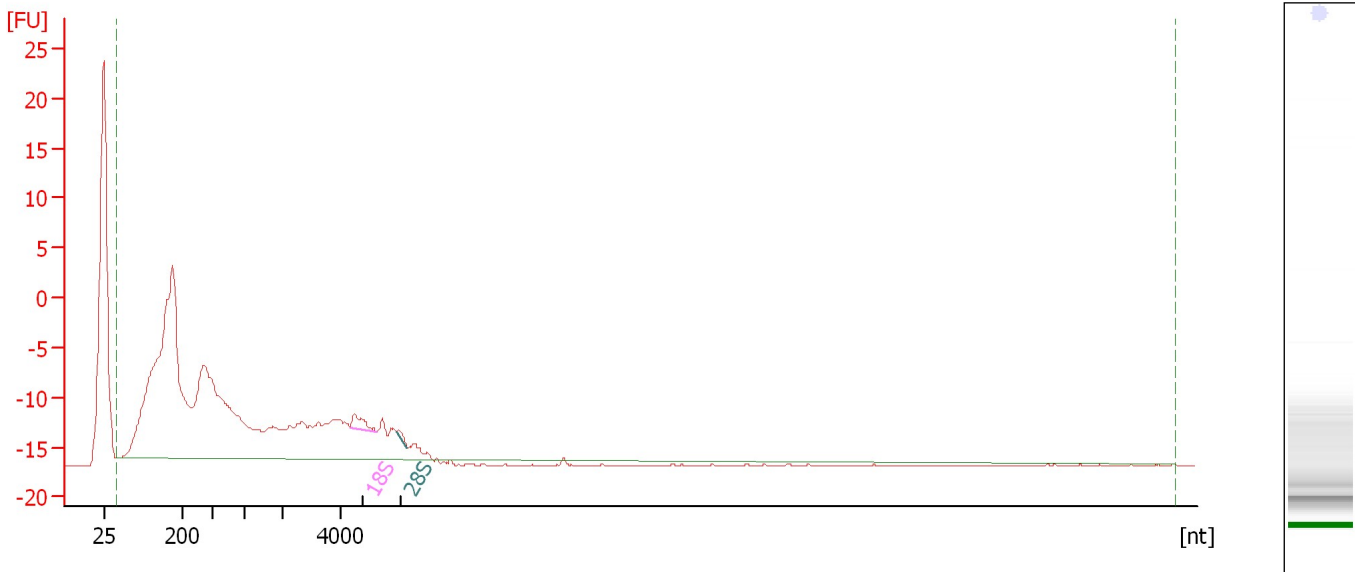
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,996	4,449	1.0	0.4
28S	5,845	6,110	0.6	0.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 1



**Overall Results for sample 3 : Sample 1**

RNA Area:	240.7	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	1,502 pg/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]:	0.3	Result Flagging Label:	RIN: 2.60

**Fragment table for sample 3 : Sample 1**

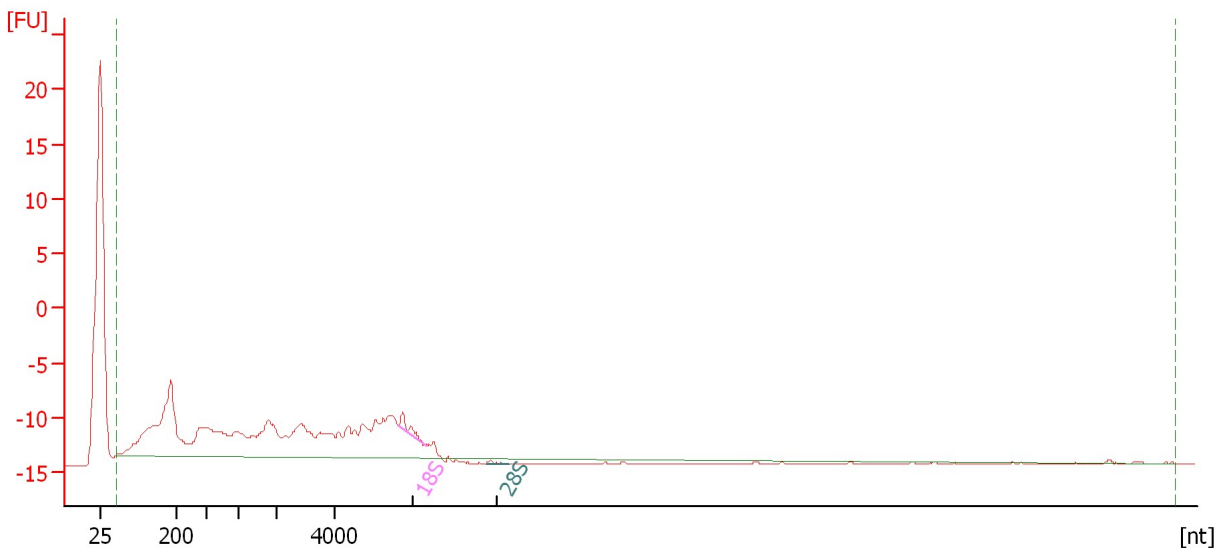
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,327	5,266	2.9	1.2
28S	5,942	6,355	0.8	0.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
 Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 2



**Overall Results for sample 4 : Sample 2**

RNA Area:	95.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	593 pg/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]:	0.2	Result Flagging Label:	RIN N/A

**Fragment table for sample 4 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	6,279	7,266	2.2	2.4
28S	9,429	10,188	0.4	0.4

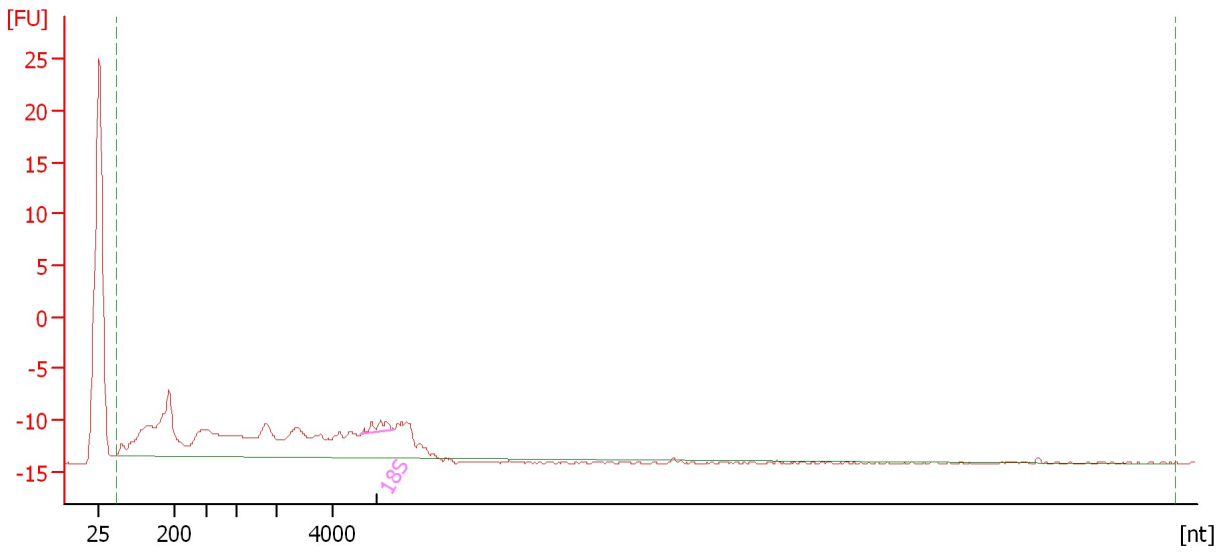


Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
 Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 2



**Overall Results for sample 5 : Sample 2**

RNA Area:	85.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	536 µg/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 : Sample 2**

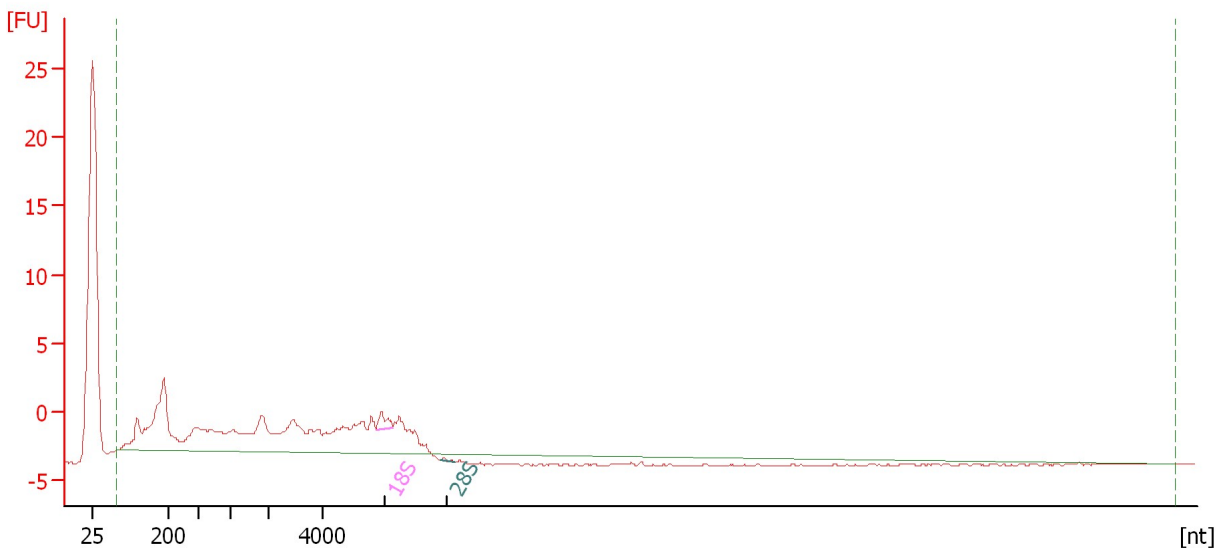
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,052	6,155	2.7	3.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 2



**Overall Results for sample 6 : Sample 2**

RNA Area: 43.5                      RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 271 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.1                      Result Flagging Label: RIN N/A

**Fragment table for sample 6 : Sample 2**

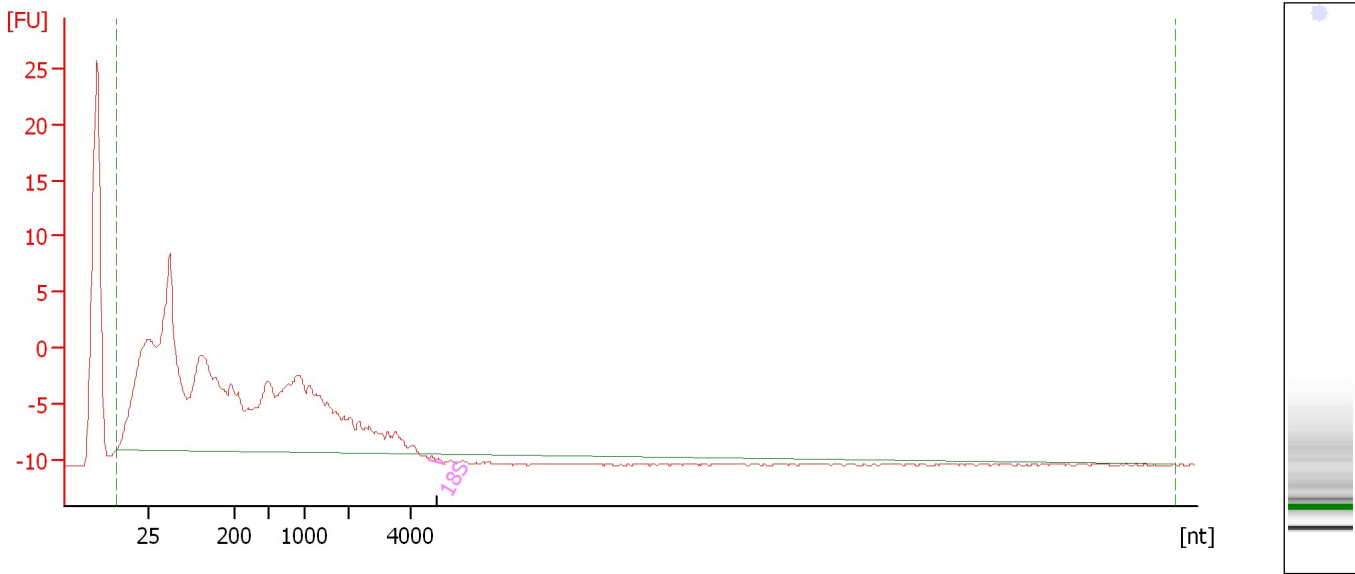
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,912	6,529	1.6	3.8
28S	8,226	8,766	0.2	0.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 3



**Overall Results for sample 7 : Sample 3**

RNA Area:	241.5	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	1,507 pg/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: 2.10

**Fragment table for sample 7 : Sample 3**

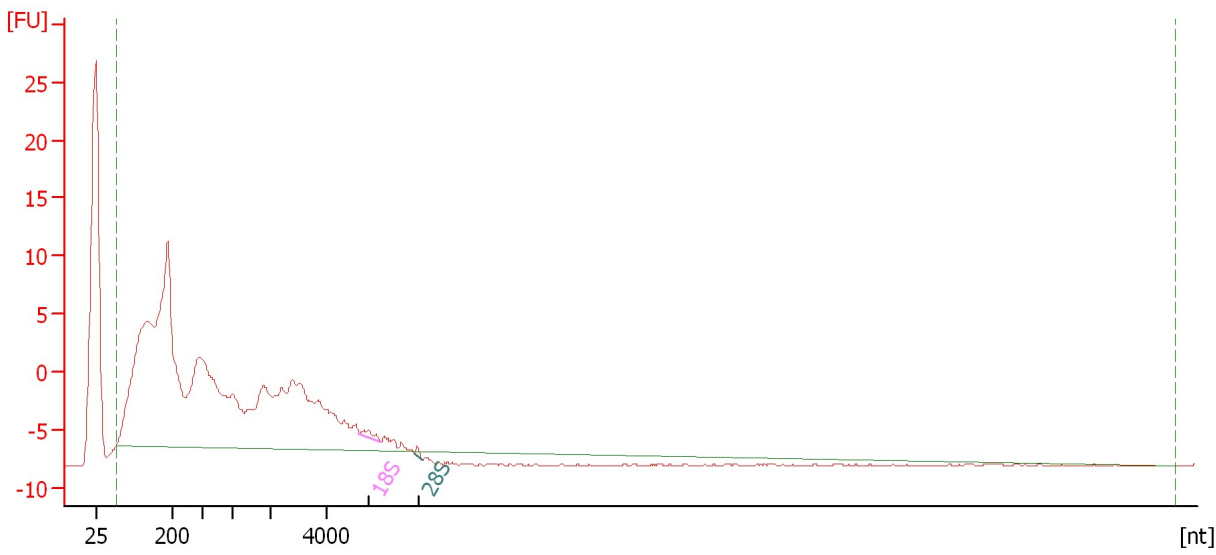
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,545	5,018	0.4	0.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
 Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 3



**Overall Results for sample 8 : Sample 3**

RNA Area:	228.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,424 pg/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]:	0.4	Result Flagging Label:	RIN N/A

**Fragment table for sample 8 : Sample 3**

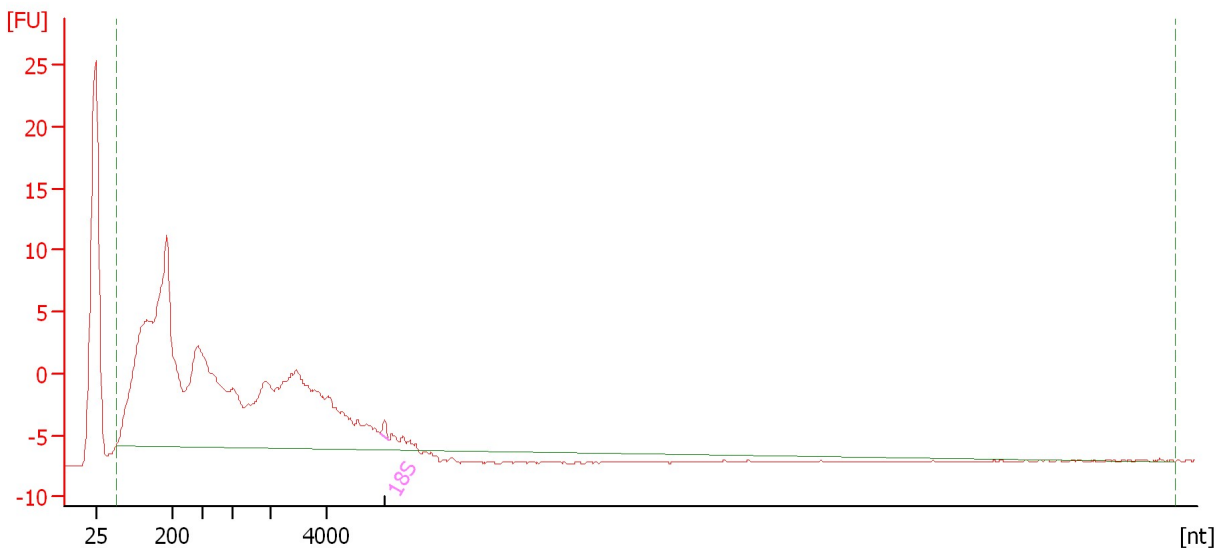
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,166	5,933	1.2	0.5
28S	7,122	7,429	0.5	0.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 3



**Overall Results for sample 9 : Sample 3**

RNA Area:	235.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,469 pg/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 : Sample 3**

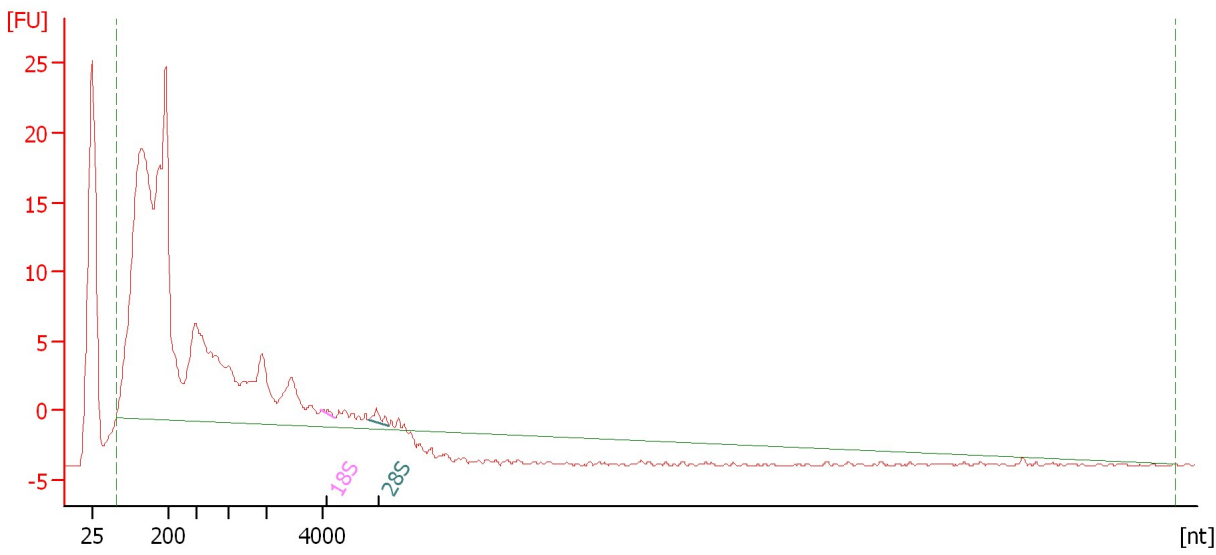
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	5,895	6,202	0.9	0.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
 Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 4



**Overall Results for sample 10 : Sample 4**

RNA Area:	228.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,426 pg/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]:	4.1	Result Flagging Label:	RIN N/A

**Fragment table for sample 10 : Sample 4**

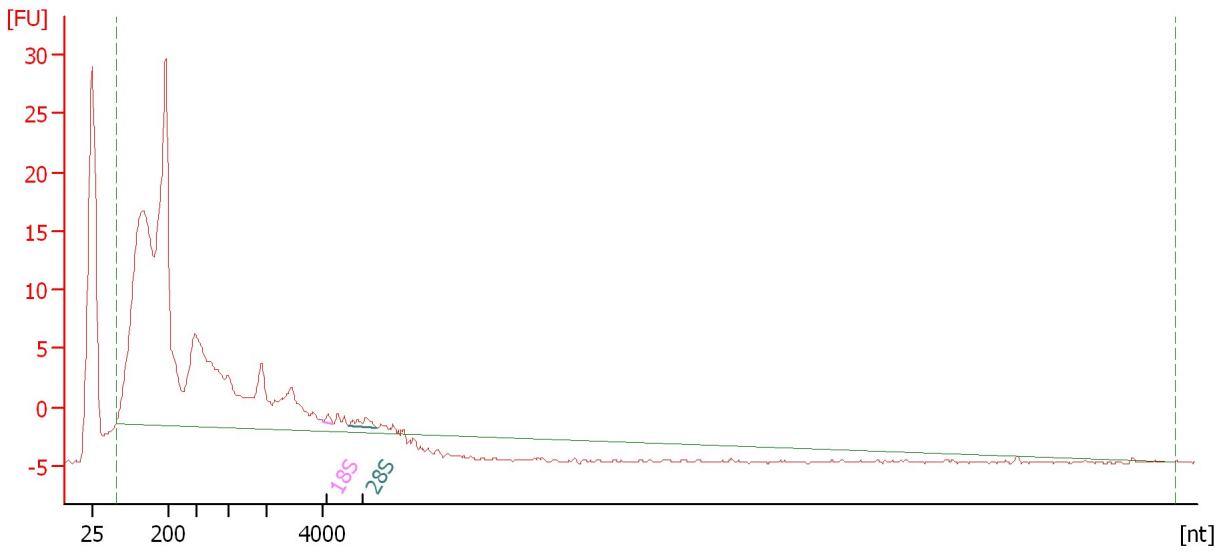
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,967	4,431	0.3	0.1
28S	5,669	6,442	1.3	0.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Electropherogram Summary Continued ...**

Sample 4



**Overall Results for sample 11 : Sample 4**

RNA Area:	227.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,417 pg/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]:	3.6	Result Flagging Label:	RIN N/A

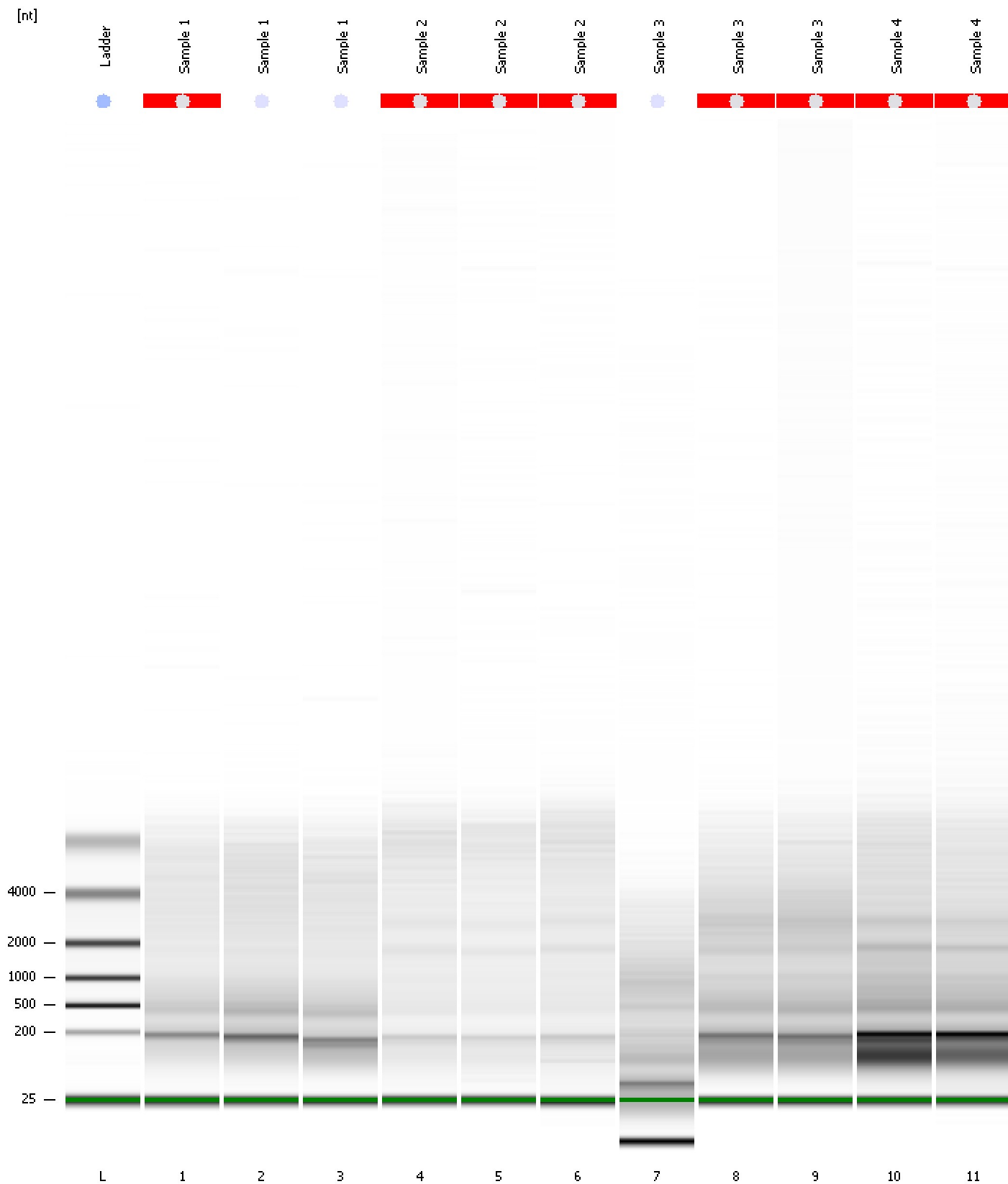
**Fragment table for sample 11 : Sample 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	4,045	4,393	0.5	0.2
28S	4,973	5,978	1.9	0.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
Modified: 3/30/2015 3:06:00 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-30\2015-03-30\_002.xad

Created: 3/30/2015 2:34:08 PM  
 Modified: 3/30/2015 3:06:00 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/30/2015 2:57:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-30\2015-03-30_002.xad)		Instrument	Run		3/30/2015 2:34:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/30/2015 2:34:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/30/2015 2:34:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/30/2015 2:34:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/30/2015 2:34:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/30/2015 2:34:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/30/2015 2:34:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1