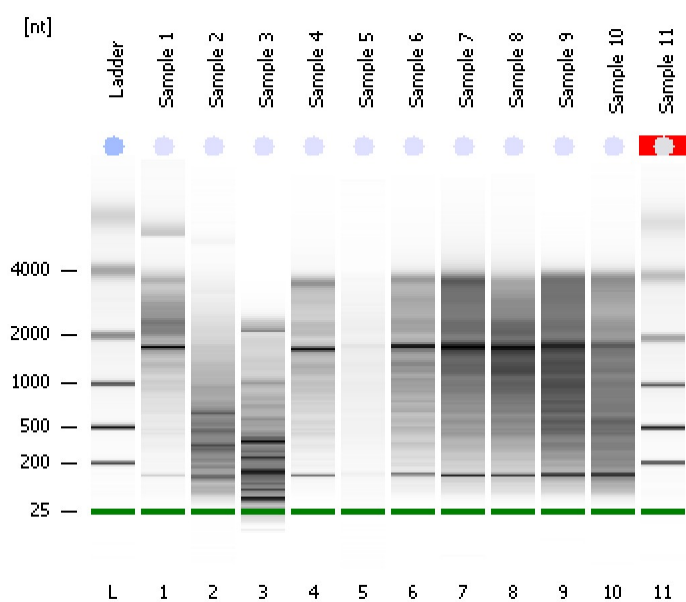


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

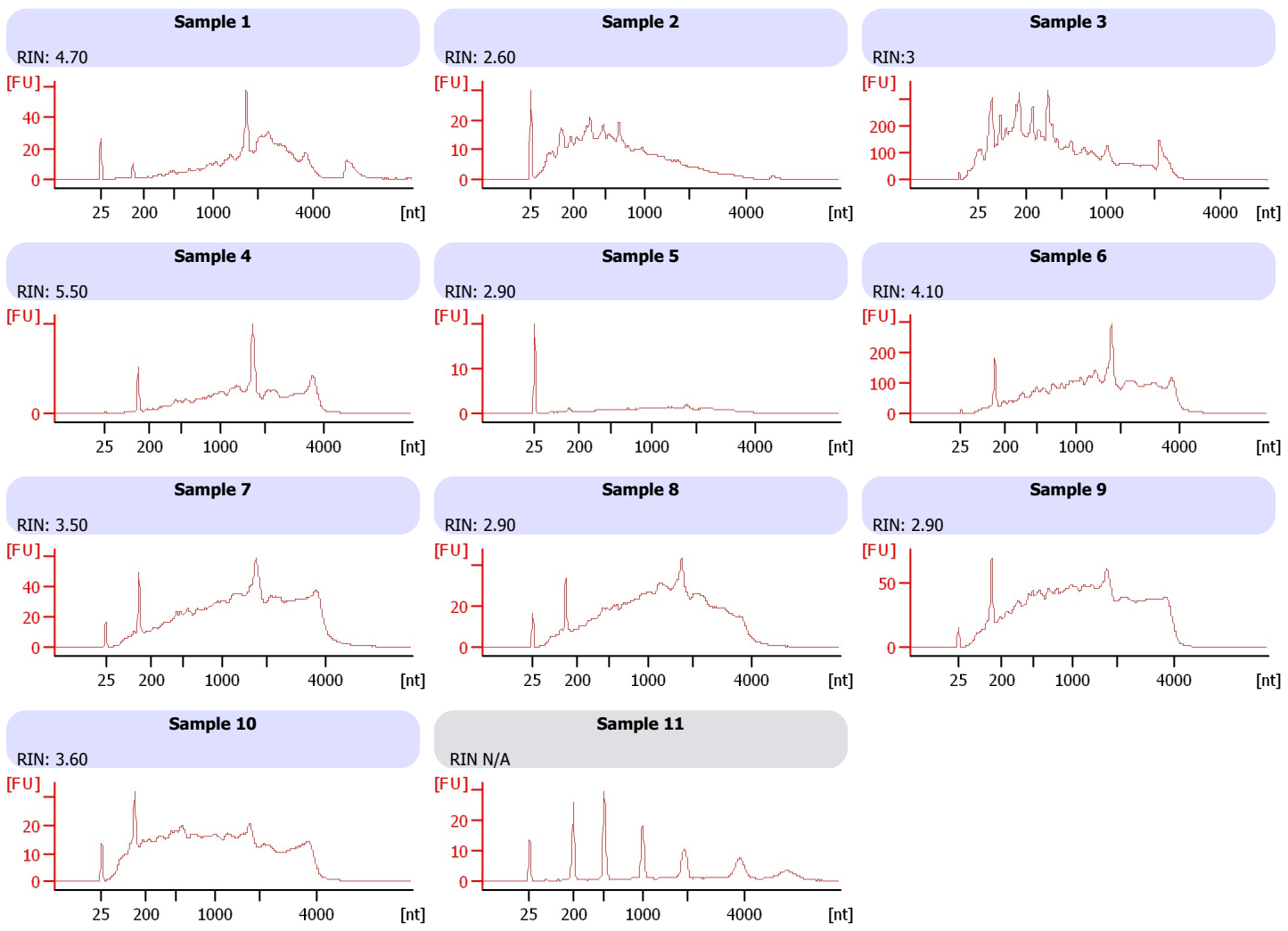
**Electrophoresis File Run Summary**



**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\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
 Modified: 6/18/2015 4:36:56 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 4.70	
Sample 2		✓	RIN: 2.60	
Sample 3		✓	RIN:3	
Sample 4		✓	RIN: 5.50	
Sample 5		✓	RIN: 2.90	
Sample 6		✓	RIN: 4.10	
Sample 7		✓	RIN: 3.50	
Sample 8		✓	RIN: 2.90	
Sample 9		✓	RIN: 2.90	
Sample 10		✓	RIN: 3.60	
Sample 11		✓	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\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 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

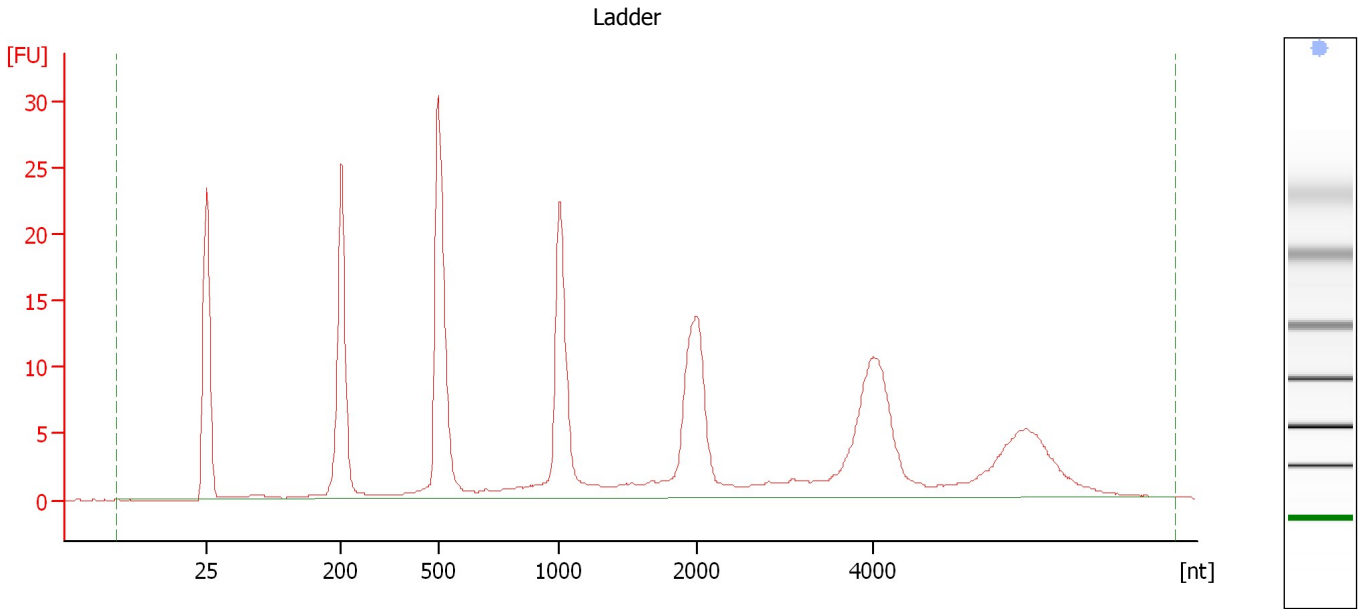
### Ladder

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\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary**



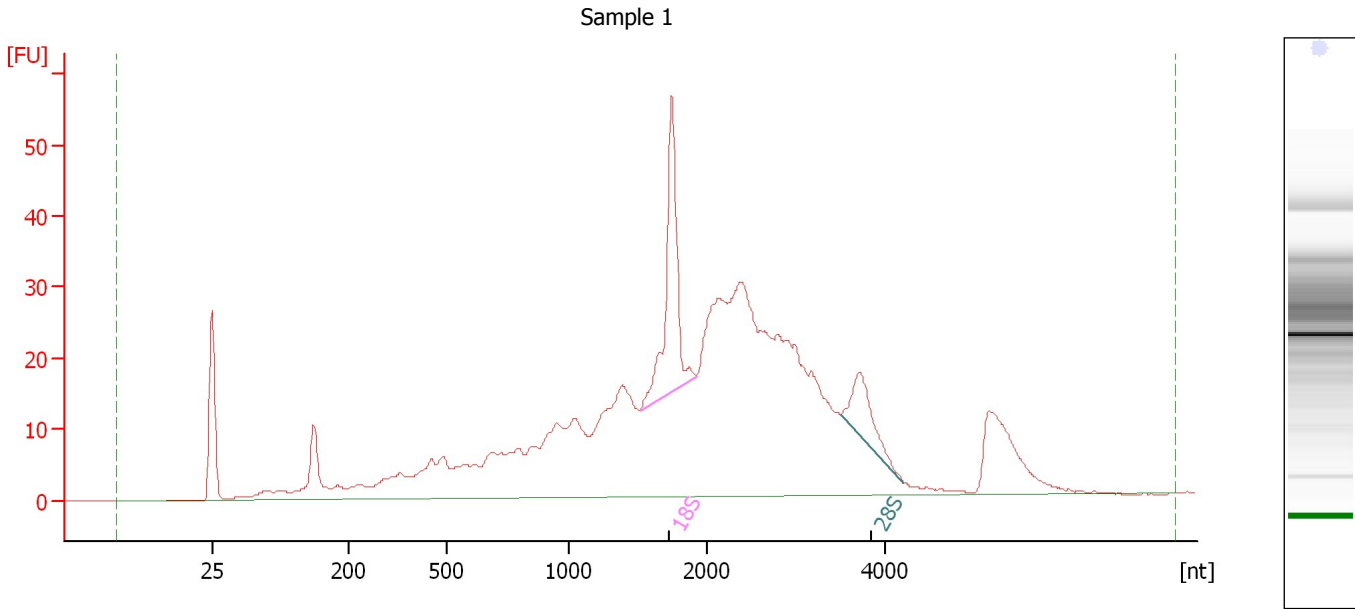
**Overall Results for Ladder**

RNA Area:	256.4	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\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	796.3	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	3,106 µg/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]:	0.4	Result Flagging Label:	RIN: 4.70

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

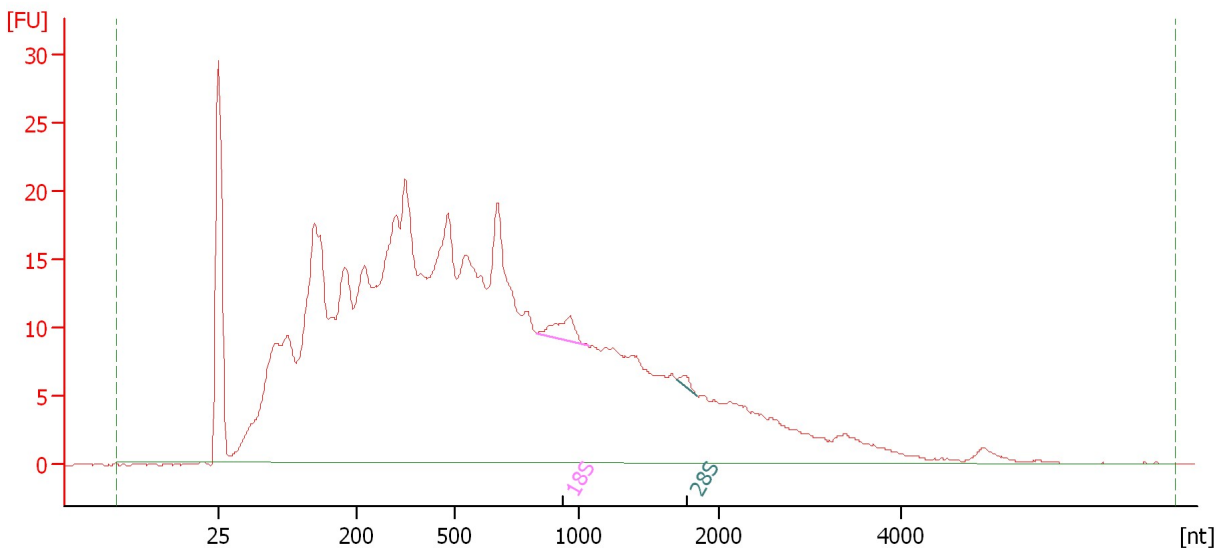
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,521	1,923	53.0	6.7
28S	3,492	4,195	18.6	2.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**

Sample 2



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

RNA Area:	729.7	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	2,846 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]:	0.2	Result Flagging Label:	RIN: 2.60

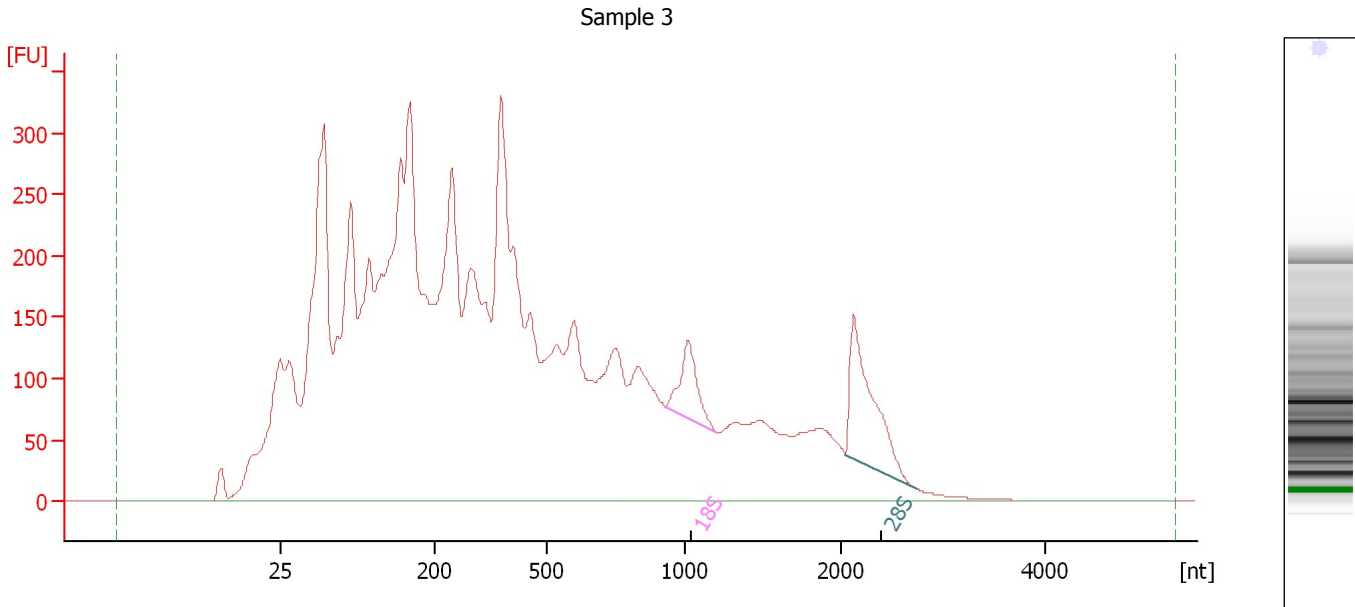
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	828	1,063	4.8	0.7
28S	1,697	1,842	0.9	0.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
 Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	9,526.4	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	37,159 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]:	2.1	Result Flagging Label:	RIN:3

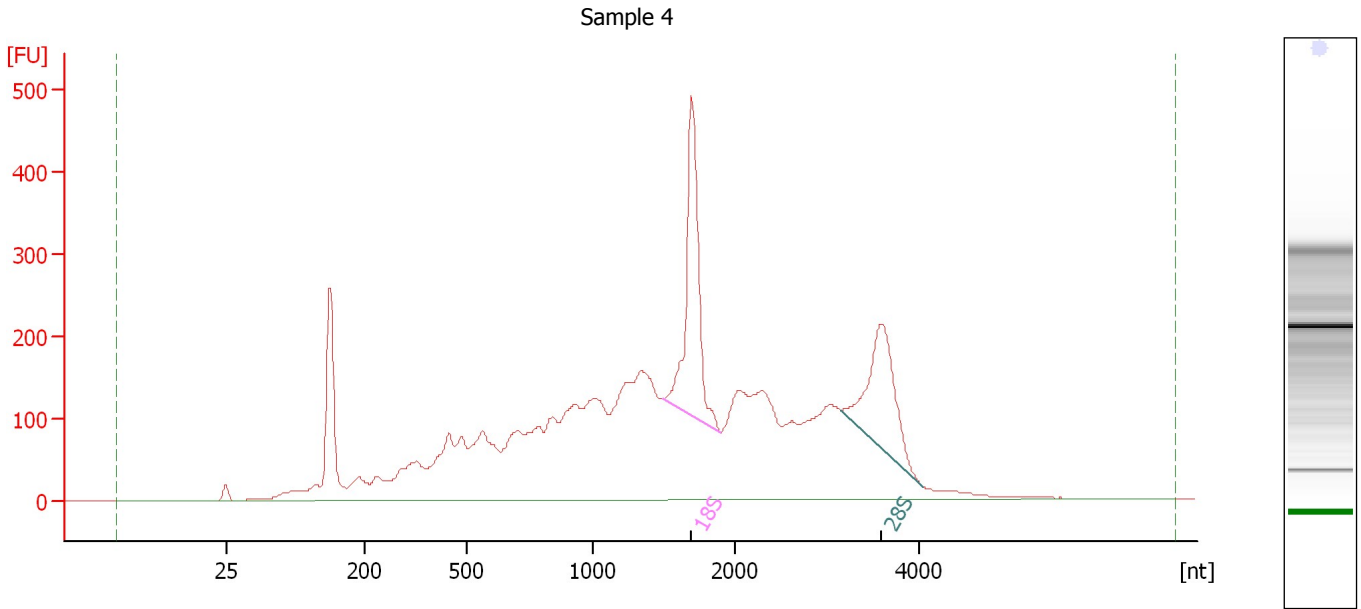
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	930	1,211	121.7	1.3
28S	2,045	2,739	256.4	2.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 6,738.6                      RNA Integrity Number (RIN): 5.5 (B.02.08)  
RNA Concentration: 26,285 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7                      Result Flagging Label: RIN: 5.50

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,492	1,906	540.8	8.0
28S	3,156	4,049	386.2	5.7

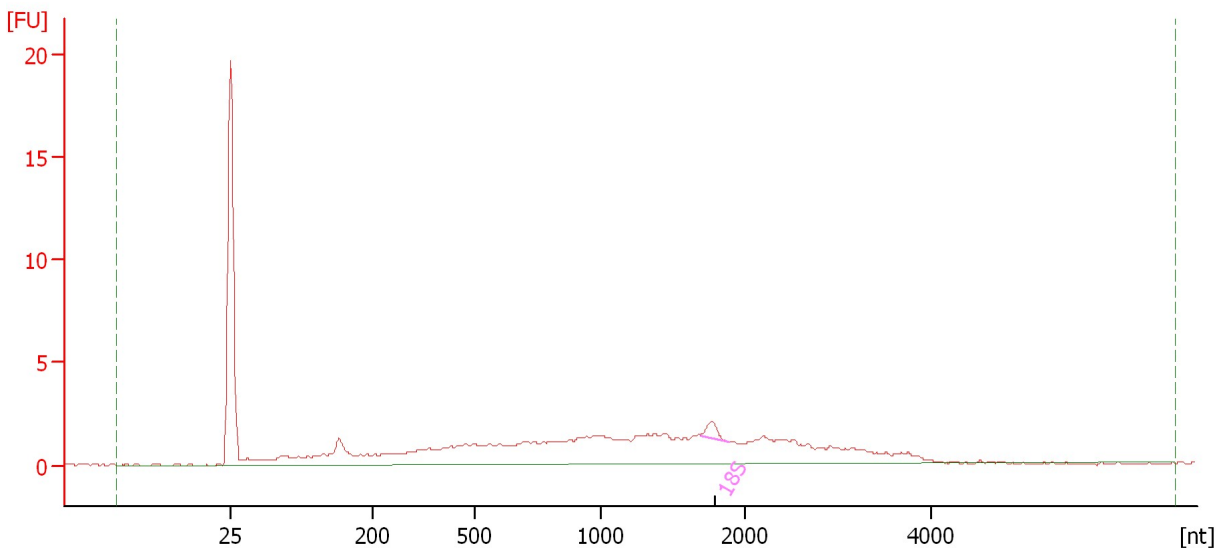


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**

Sample 5



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

RNA Area:	68.0	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	265 µg/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: 2.90

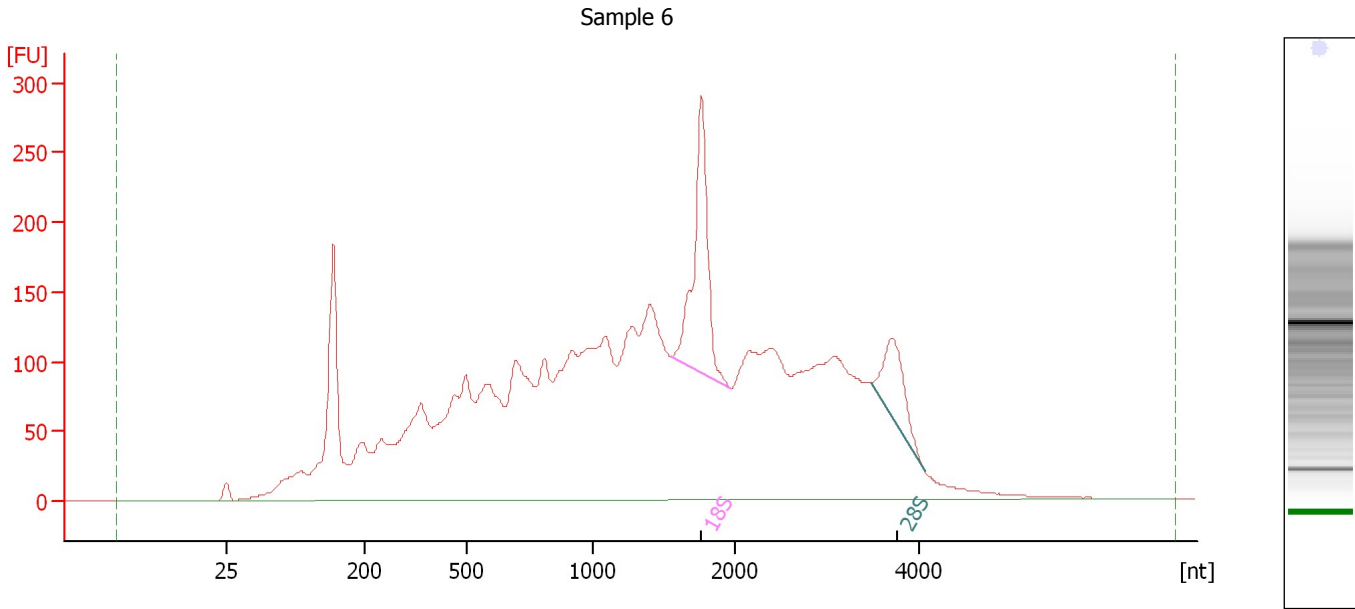
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,692	1,894	0.9	1.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
 Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	6,174.4	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	24,084 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]:	0.4	Result Flagging Label:	RIN: 4.10

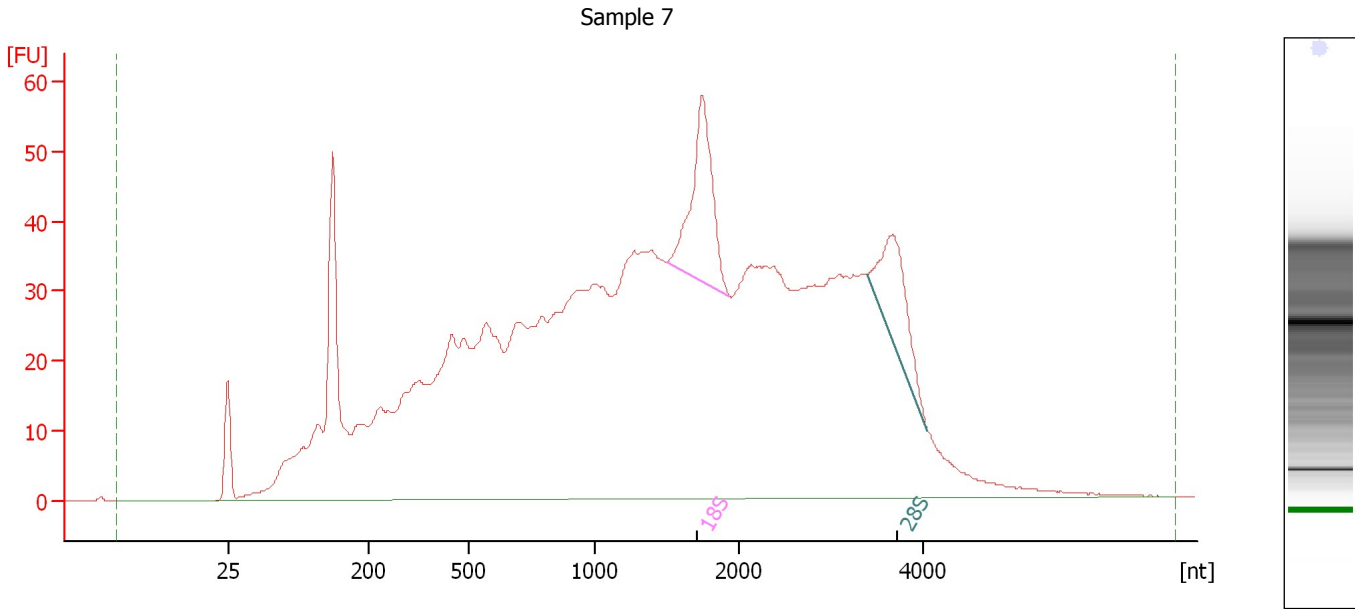
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,560	1,974	314.3	5.1
28S	3,492	4,073	116.5	1.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
 Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,891.8	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	7,379 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]:	0.6	Result Flagging Label:	RIN: 3.50

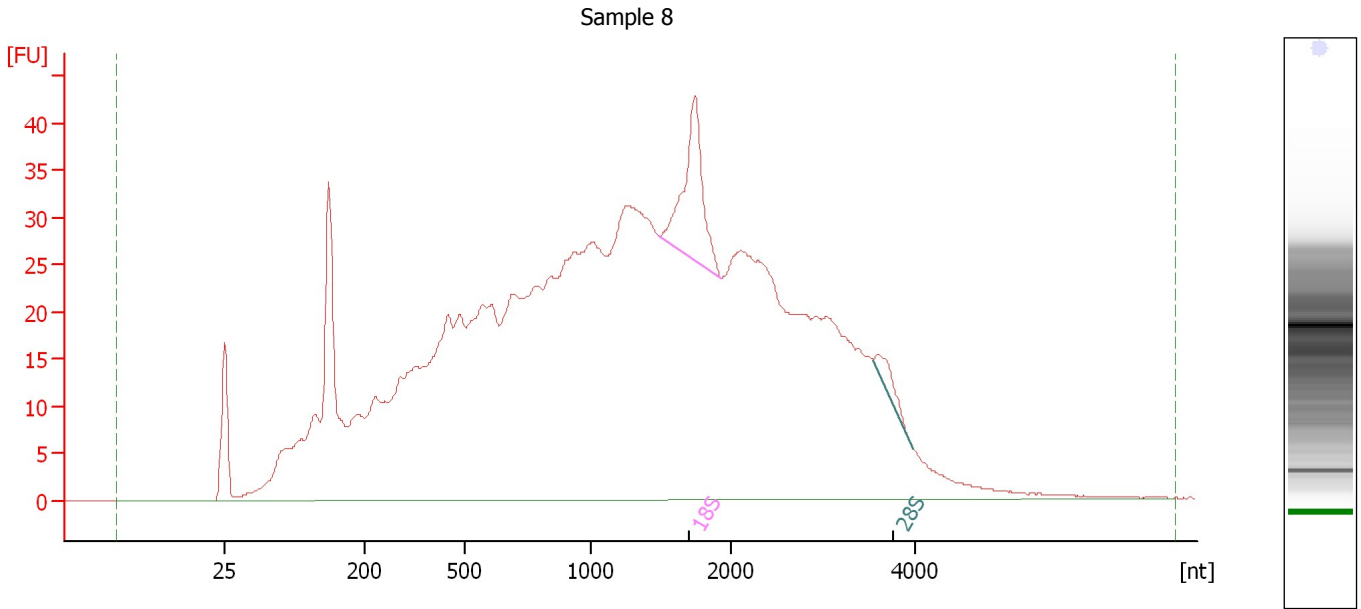
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,495	1,937	63.1	3.3
28S	3,383	4,053	39.6	2.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 1,431.5                      RNA Integrity Number (RIN): 2.9 (B.02.08)  
RNA Concentration: 5,584 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.1                      Result Flagging Label: RIN: 2.90

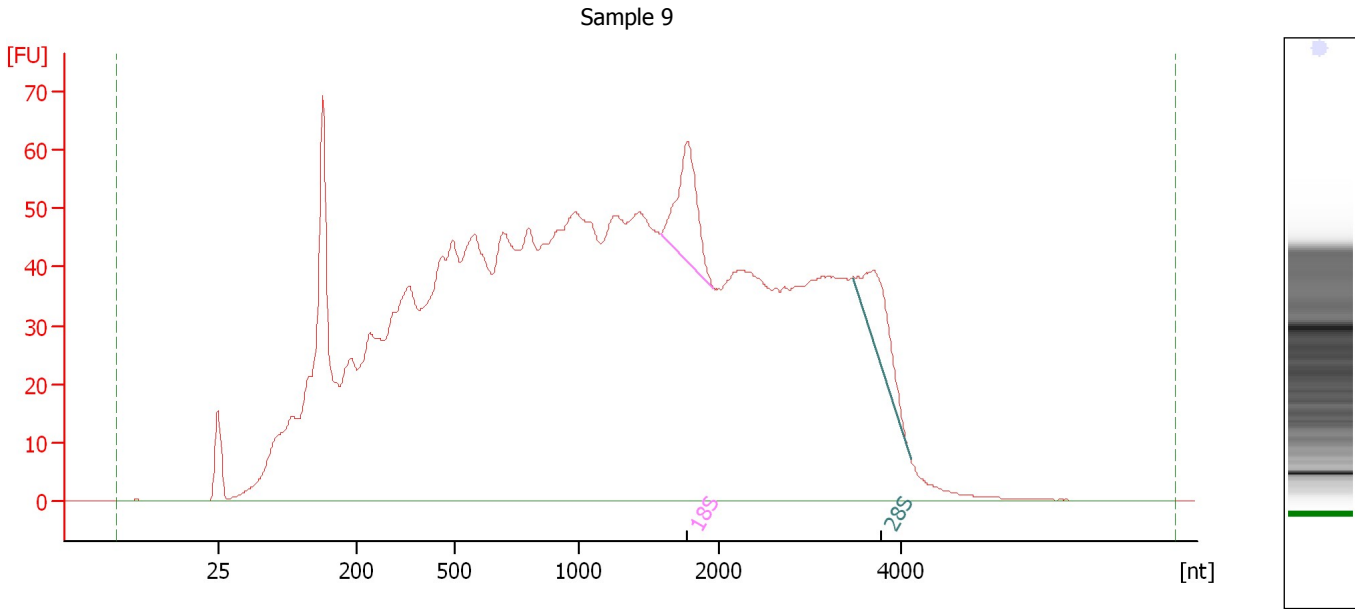
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,928	36.2	2.5
28S	3,541	3,972	4.8	0.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 2,797.0 RNA Integrity Number (RIN): 2.9 (B.02.08)  
RNA Concentration: 10,910 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 2.90

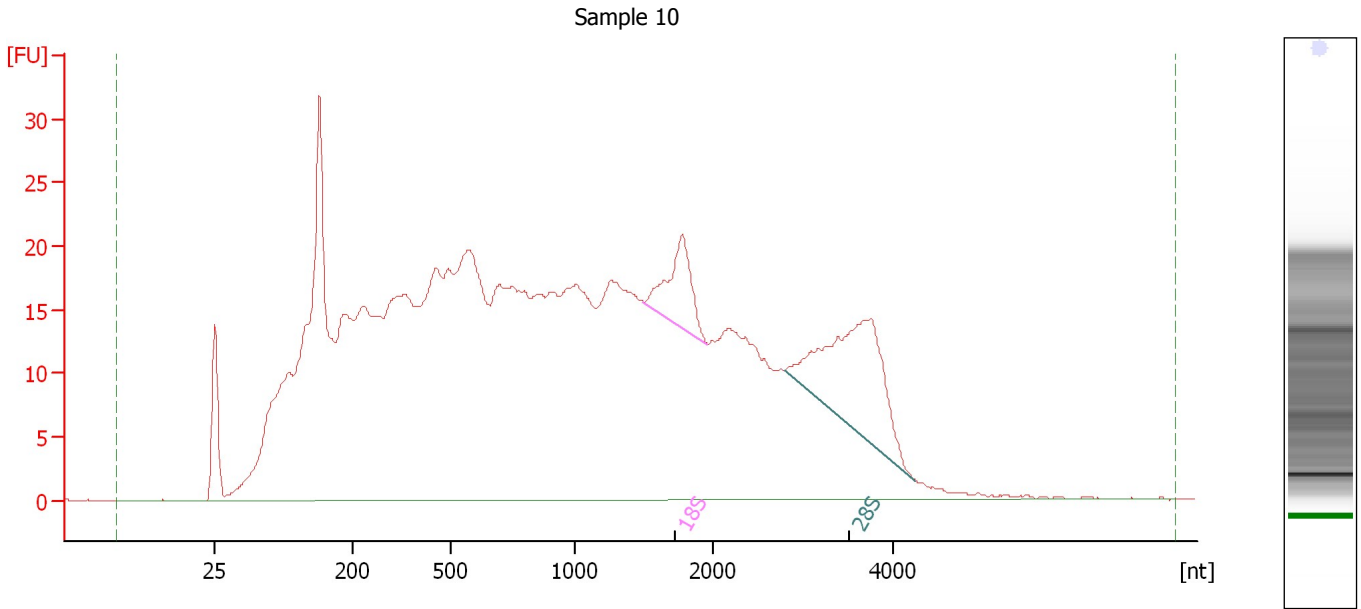
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	1,957	46.5	1.7
28S	3,464	4,112	35.5	1.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,126.4	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	4,394 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]:	2.7	Result Flagging Label:	RIN: 3.60

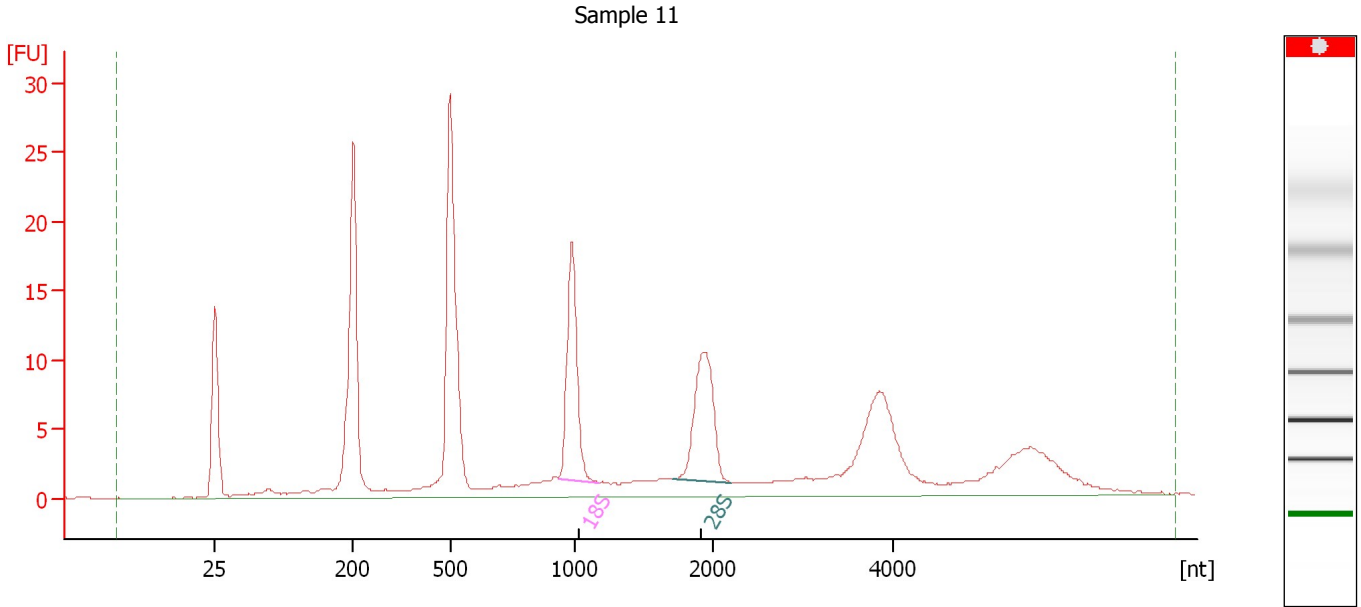
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,502	1,963	18.9	1.7
28S	2,797	4,242	51.4	4.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
 Modified: 6/18/2015 4:36:56 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	226.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	884 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]:	0.9	Result Flagging Label:	RIN N/A

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	936	1,180	22.4	9.9
28S	1,717	2,192	20.5	9.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-18\2015-06-18\_004.xad

Created: 6/18/2015 4:14:02 PM  
Modified: 6/18/2015 4:36:56 PM

**Gel Image**

