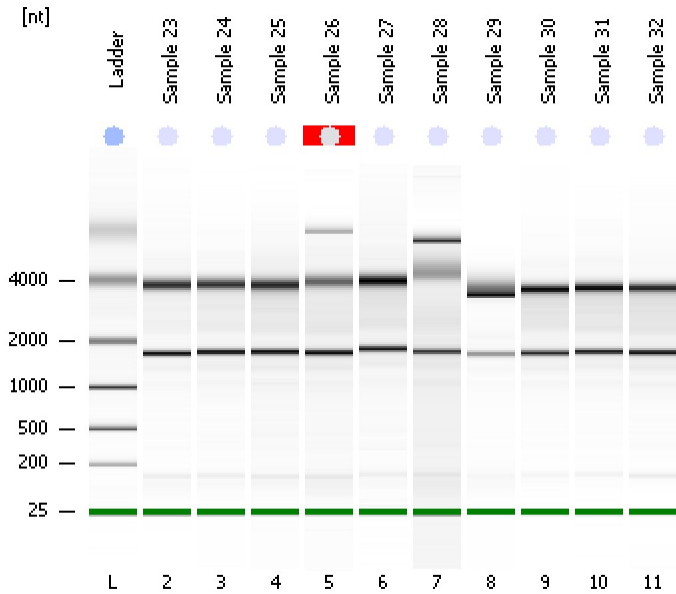


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
Modified: 11/30/2015 4:55:40 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

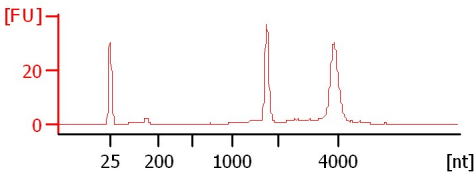
Assay Information:

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.

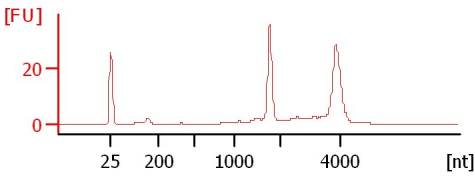
Chip Information:

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

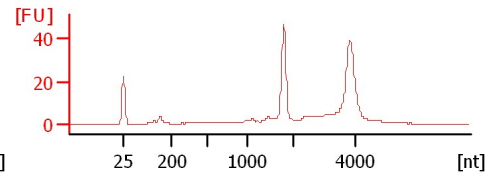
**Sample 23**  
RIN: 9.80



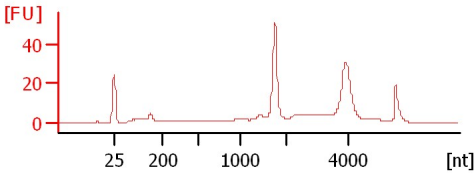
**Sample 24**  
RIN: 9.40



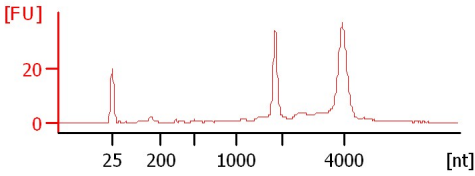
**Sample 25**  
RIN: 9.10



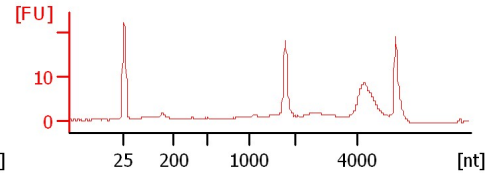
**Sample 26**  
RIN N/A



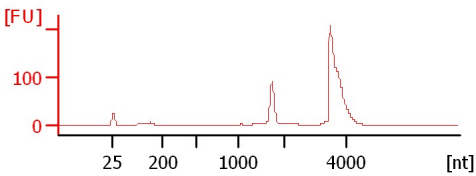
**Sample 27**  
RIN: 9.50



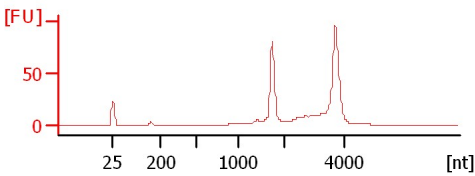
**Sample 28**  
RIN: 6.80



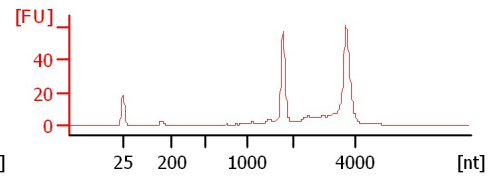
**Sample 29**  
RIN: 9.50



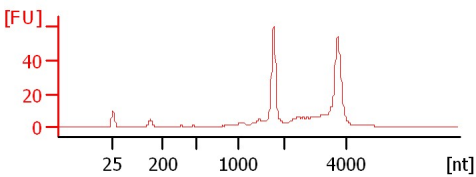
**Sample 30**  
RIN: 9.40



**Sample 31**  
RIN: 9.30



**Sample 32**  
RIN: 8.90



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 23		✓	RIN: 9.80	
Sample 24		✓	RIN: 9.40	
Sample 25		✓	RIN: 9.10	
Sample 26		✓	RIN N/A	
Sample 27		✓	RIN: 9.50	
Sample 28		✓	RIN: 6.80	
Sample 29		✓	RIN: 9.50	
Sample 30		✓	RIN: 9.40	
Sample 31		✓	RIN: 9.30	
Sample 32		✓	RIN: 8.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
Modified: 11/30/2015 4:55:40 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

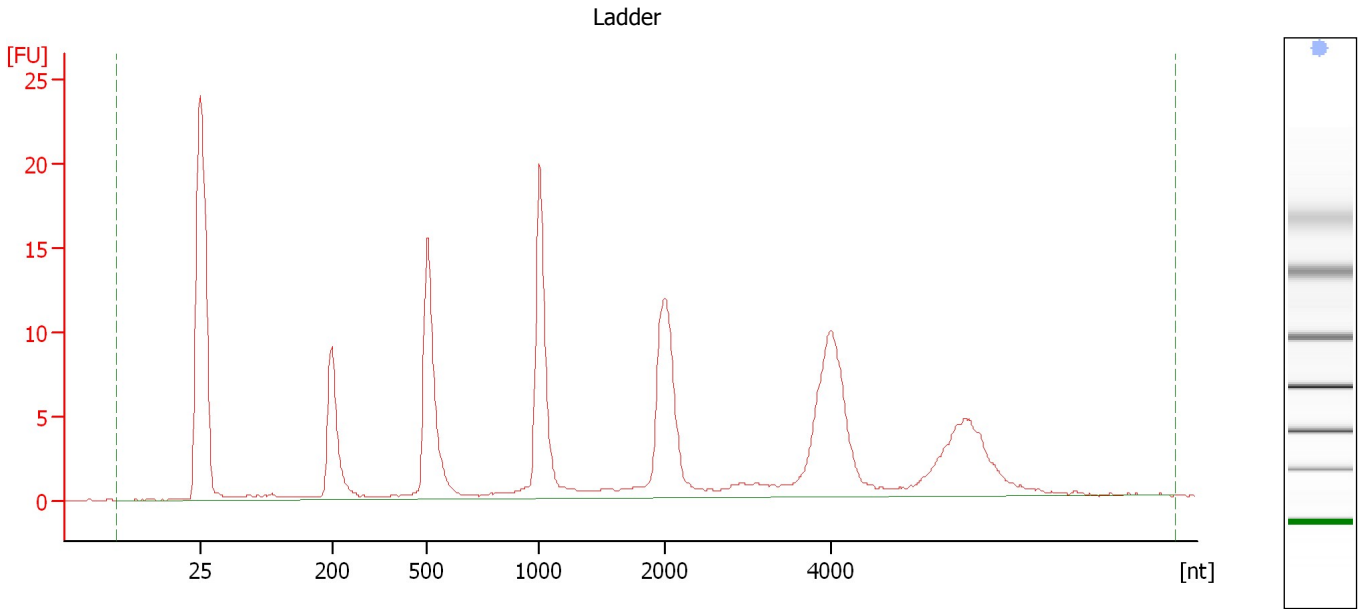
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary**



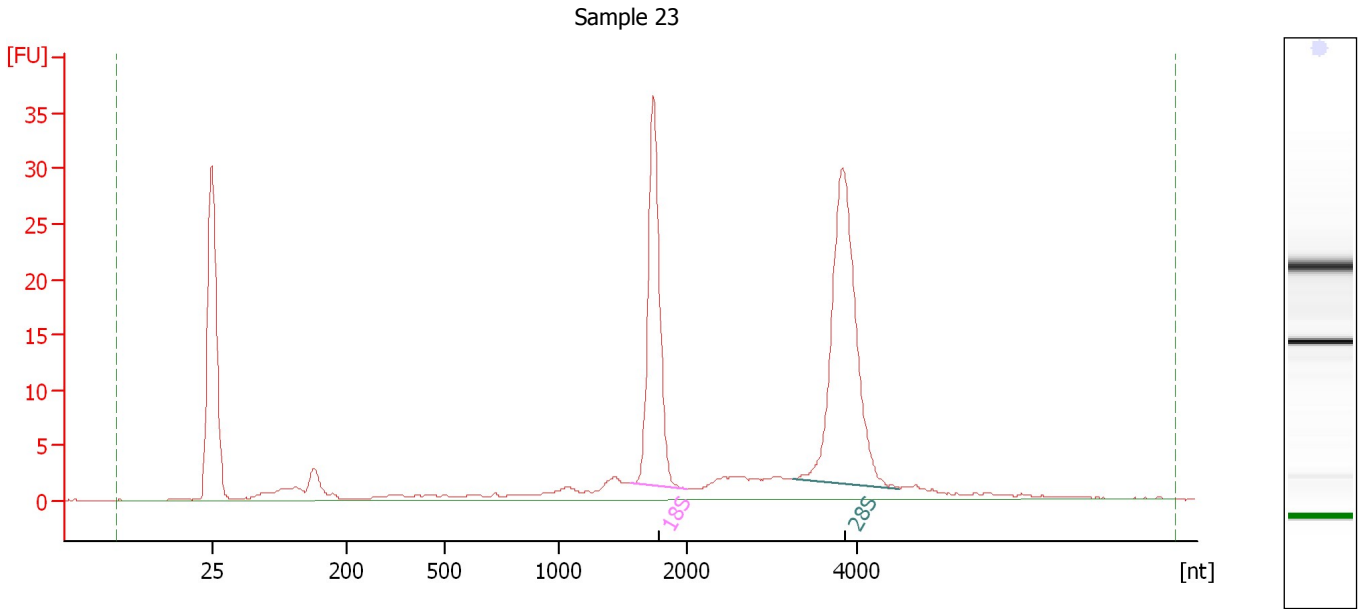
**Overall Results for Ladder**

RNA Area:	165.9	Result Flagging Color:	<span style="background-color: #6699ff; 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:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 23**

RNA Area:	199.2	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	1,201 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]:	1.4	Result Flagging Label:	RIN: 9.80

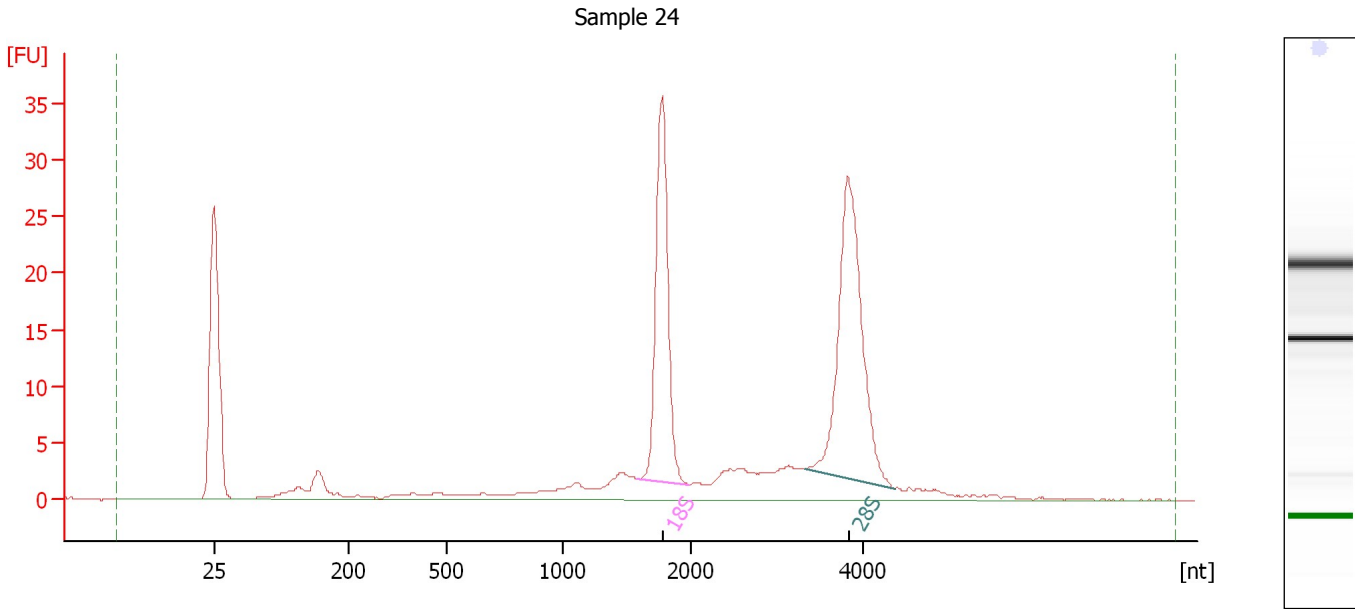
**Fragment table for sample 2 : Sample 23**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,564	2,010	49.3	24.7
28S	3,250	4,490	69.1	34.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 24**

RNA Area:	208.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	1,256 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]:	1.3	Result Flagging Label:	RIN: 9.40

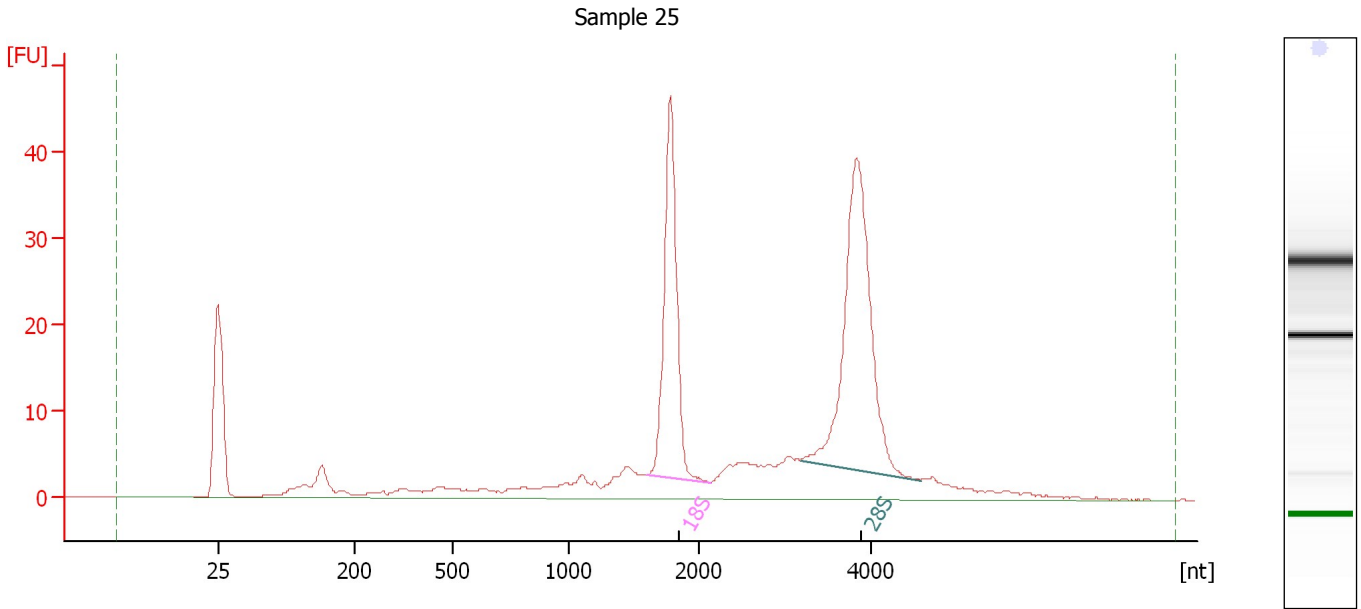
**Fragment table for sample 3 : Sample 24**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,991	48.9	23.5
28S	3,334	4,381	62.8	30.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 25**

RNA Area:	323.1	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	1,948 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]:	1.4	Result Flagging Label:	RIN: 9.10

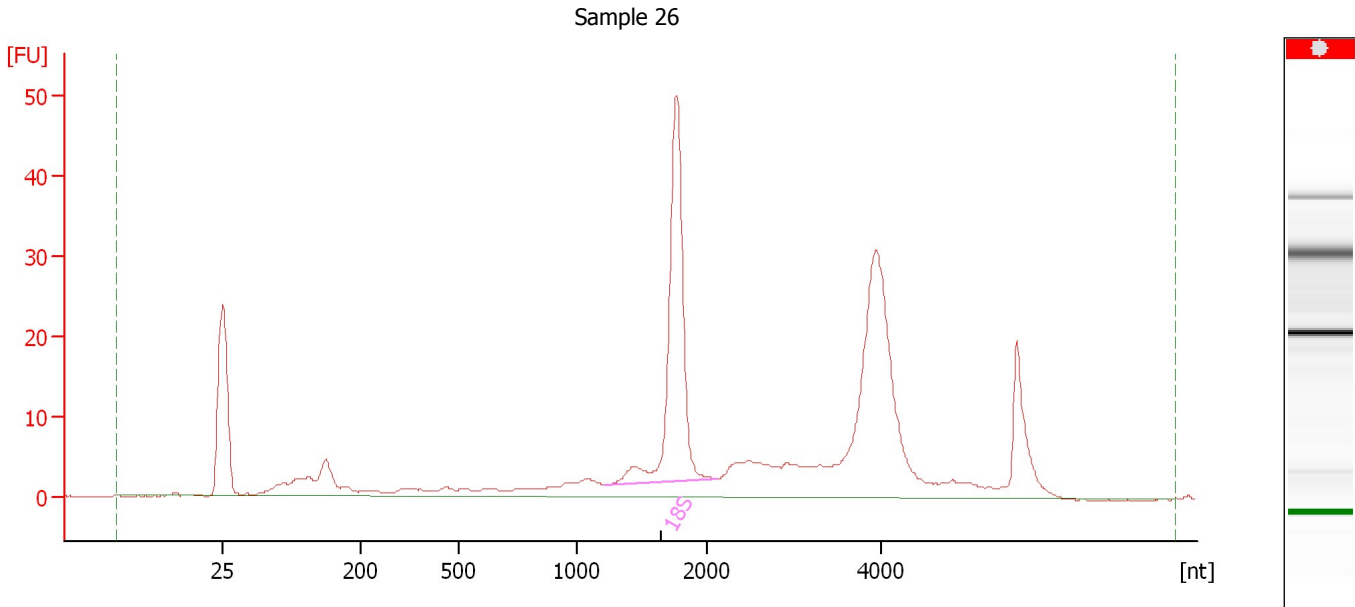
**Fragment table for sample 4 : Sample 25**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	2,126	65.2	20.2
28S	3,178	4,563	93.1	28.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 26**

RNA Area:	330.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,994 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 5 : Sample 26**

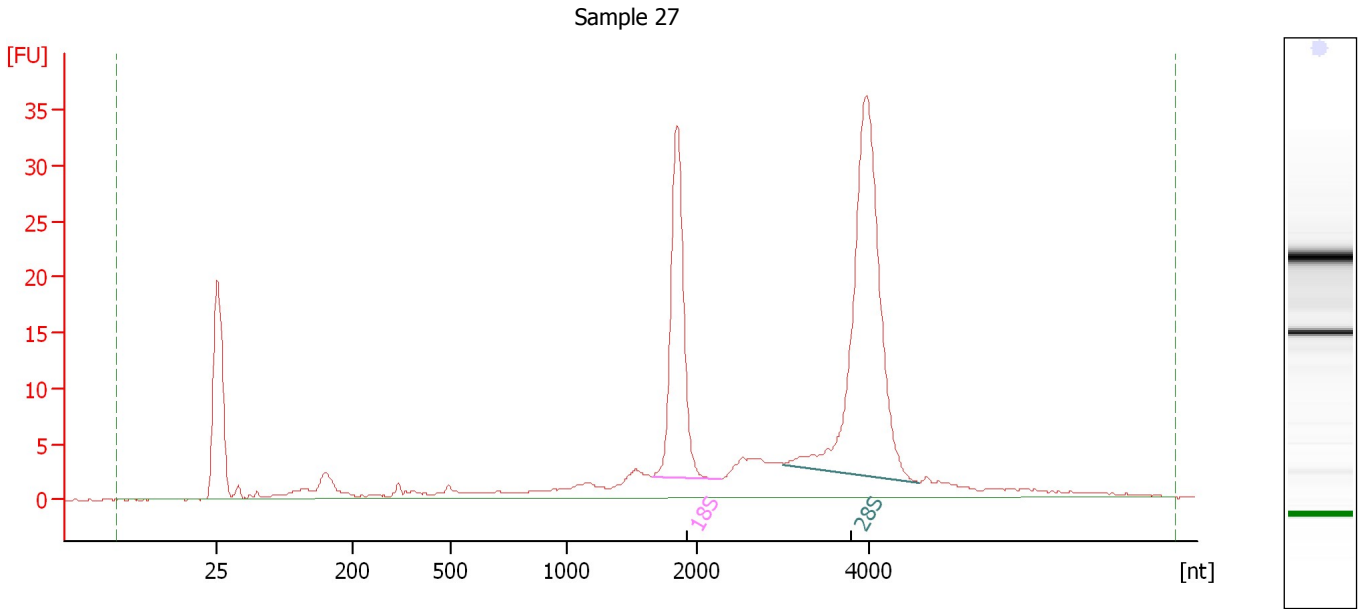
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,219	2,116	80.5	24.3



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 27**

RNA Area:	250.4	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	1,510 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]:	1.9	Result Flagging Label:	RIN: 9.50

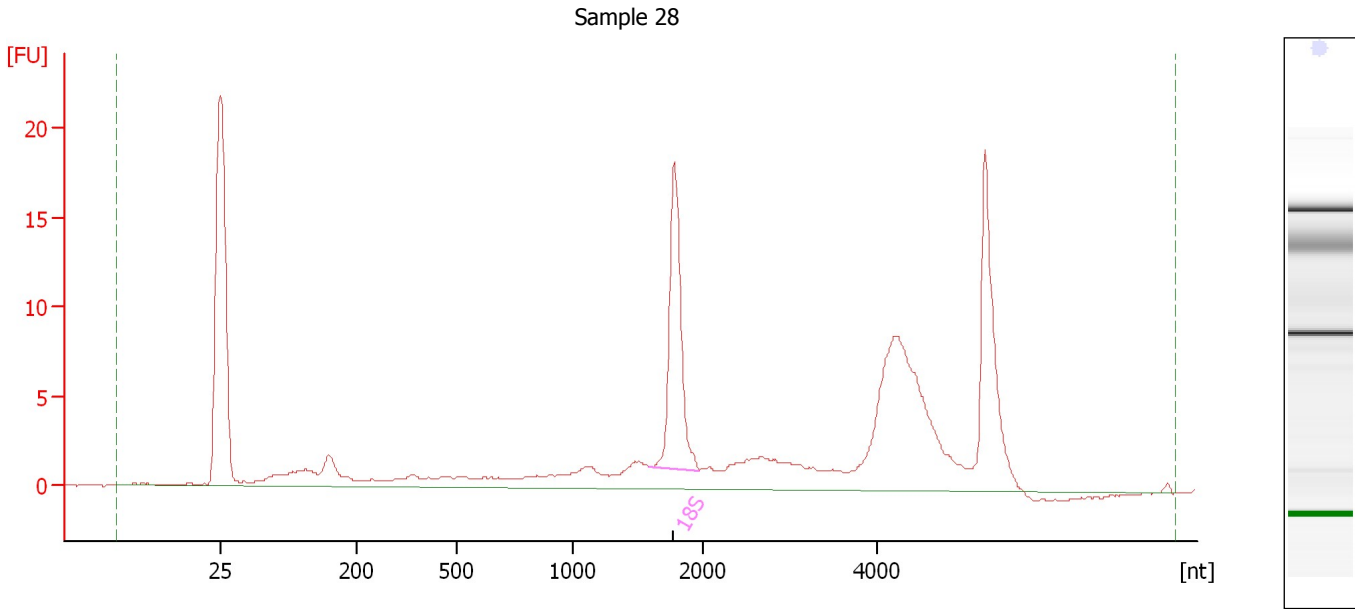
**Fragment table for sample 6 : Sample 27**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	2,274	47.1	18.8
28S	3,006	4,568	89.8	35.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 28**

RNA Area:	151.9	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	916 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: 6.80

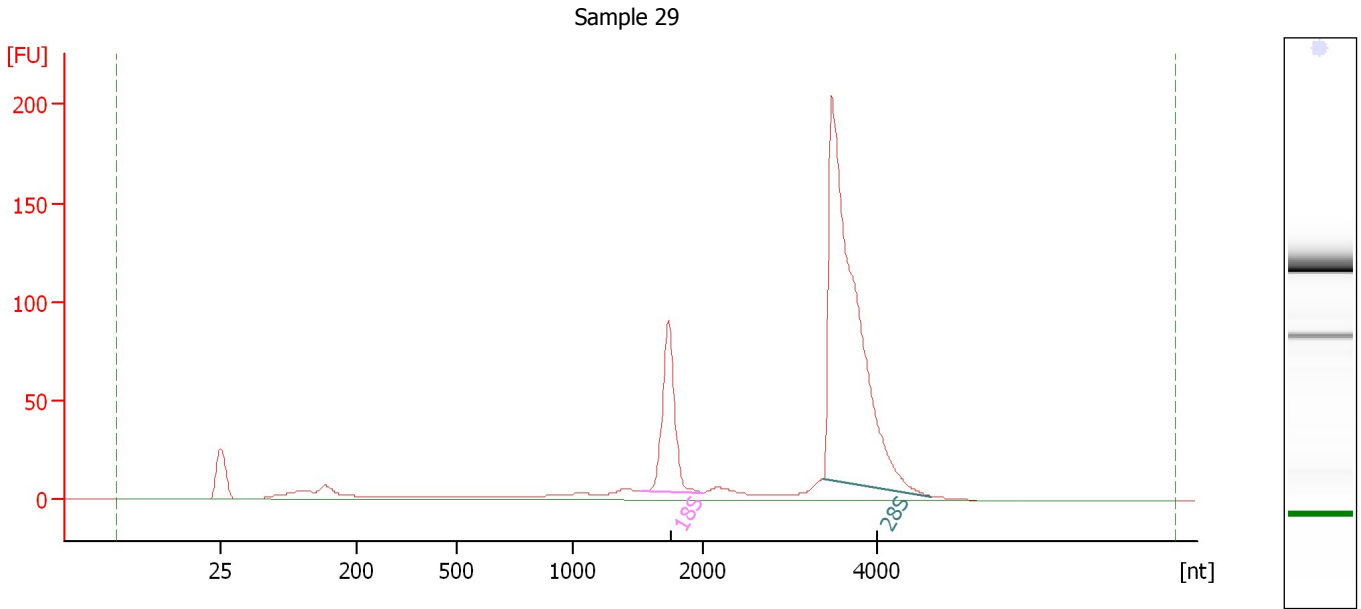
**Fragment table for sample 7 : Sample 28**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,970	23.0	15.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 29**

RNA Area:	888.4	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	5,356 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]:	4.0	Result Flagging Label:	RIN: 9.50

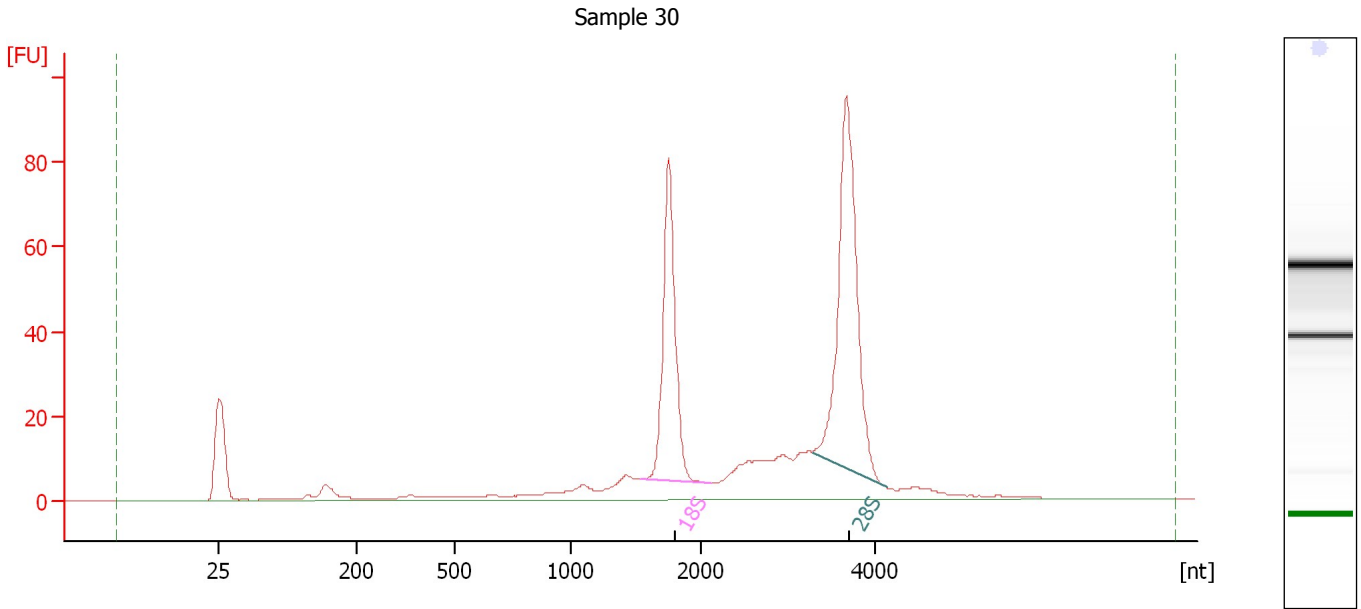
**Fragment table for sample 8 : Sample 29**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,518	2,004	125.4	14.1
28S	3,384	4,628	505.4	56.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 30**

RNA Area:	525.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	3,167 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]:	1.5	Result Flagging Label:	RIN: 9.40

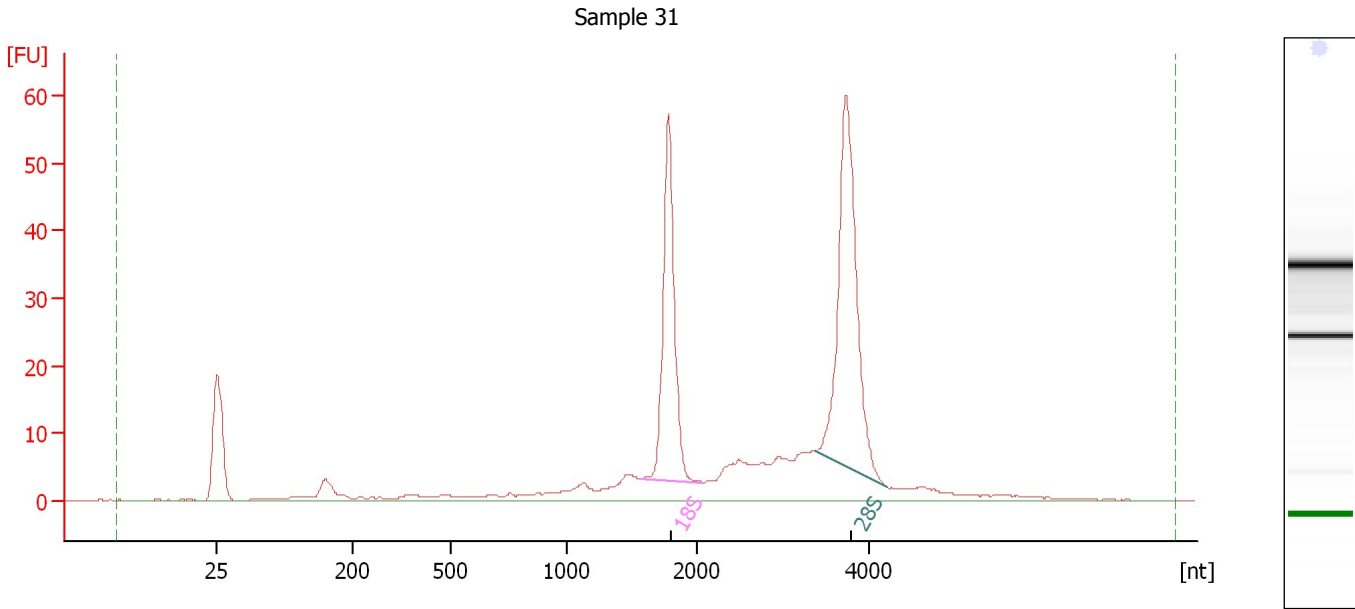
**Fragment table for sample 9 : Sample 30**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,533	2,102	109.7	20.9
28S	3,287	4,139	163.1	31.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 31**

RNA Area:	345.1	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	2,081 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]:	1.4	Result Flagging Label:	RIN: 9.30

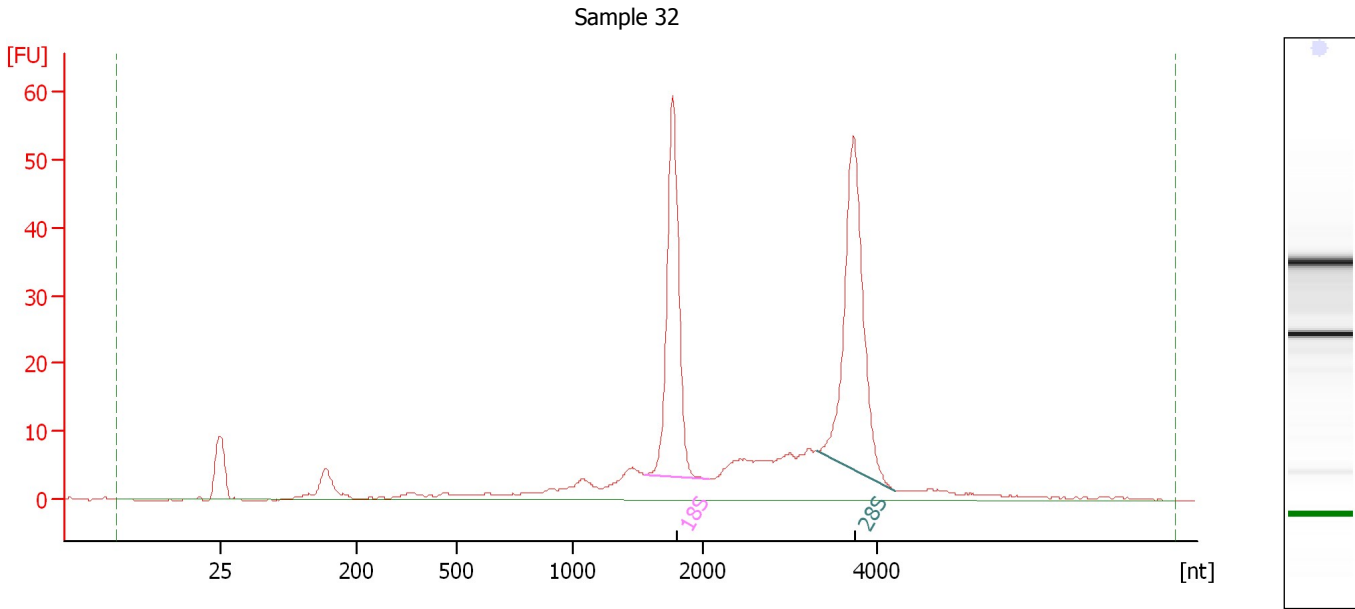
**Fragment table for sample 10 : Sample 31**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,563	2,076	72.5	21.0
28S	3,365	4,208	100.9	29.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sample 32**

RNA Area:	351.3	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	2,118 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]:	1.2	Result Flagging Label:	RIN: 8.90

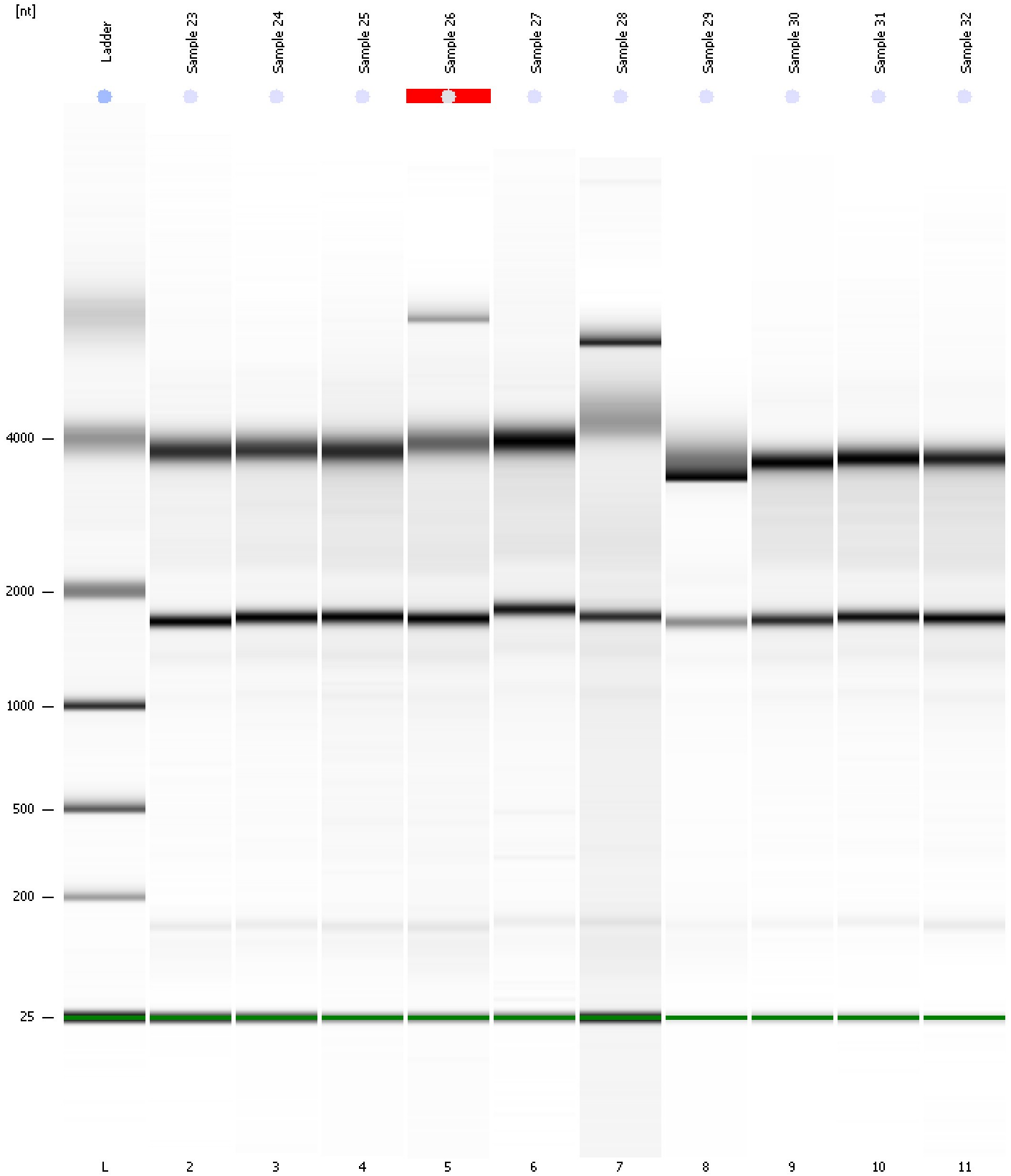
**Fragment table for sample 11 : Sample 32**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,551	2,066	78.2	22.3
28S	3,322	4,210	91.5	26.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
Modified: 11/30/2015 4:55:40 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...zer\2015-11-30\2015-11-30\_004\_HiSeq306\_TotalRNAQC\_23-32.xad

Created: 11/30/2015 4:08:17 PM  
 Modified: 11/30/2015 4:55:40 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		11/30/2015 4:31:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyser\2015-11-30\2015-11-30_004.xad)		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1