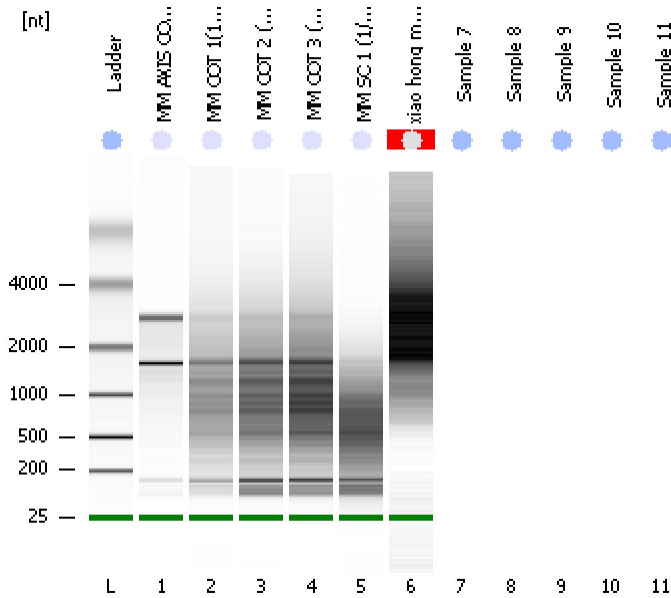


Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
 Modified: 5/1/2013 12:52:00 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

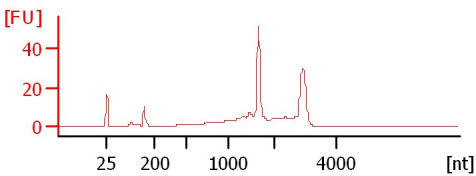
Assay Information:

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.

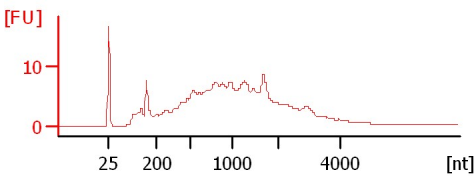
Chip Information:

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

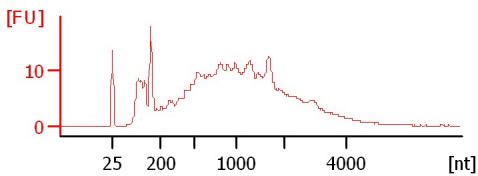
**MM AXIS CONTROL**  
 RIN: 7.40



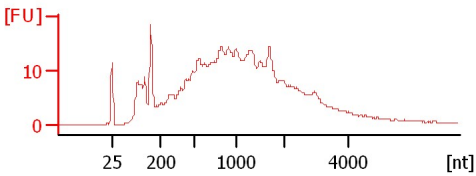
**MM COT 1 (1/50)**  
 RIN: 3.30



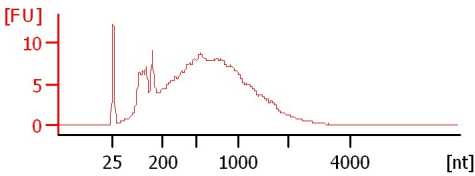
**MM COT 2 (1/50)**  
 RIN: 2.80



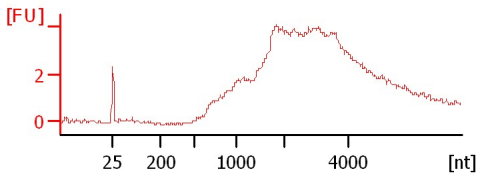
**MM COT 3 (1/20)**  
 RIN: 2.50



**MM SC 1 (1/20)**  
 RIN: 2.20



**xiao hong mRNA**  
 RIN N/A



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
MM AXIS CONTROL		✓	RIN: 7.40	
MM COT 1(1/50)		✓	RIN: 3.30	
MM COT 2 (1/50)		✓	RIN: 2.80	
MM COT 3 (1/20)		✓	RIN: 2.50	
MM SC 1 (1/20)		✓	RIN: 2.20	
xiao hong mRNA		✓	RIN N/A	
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 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

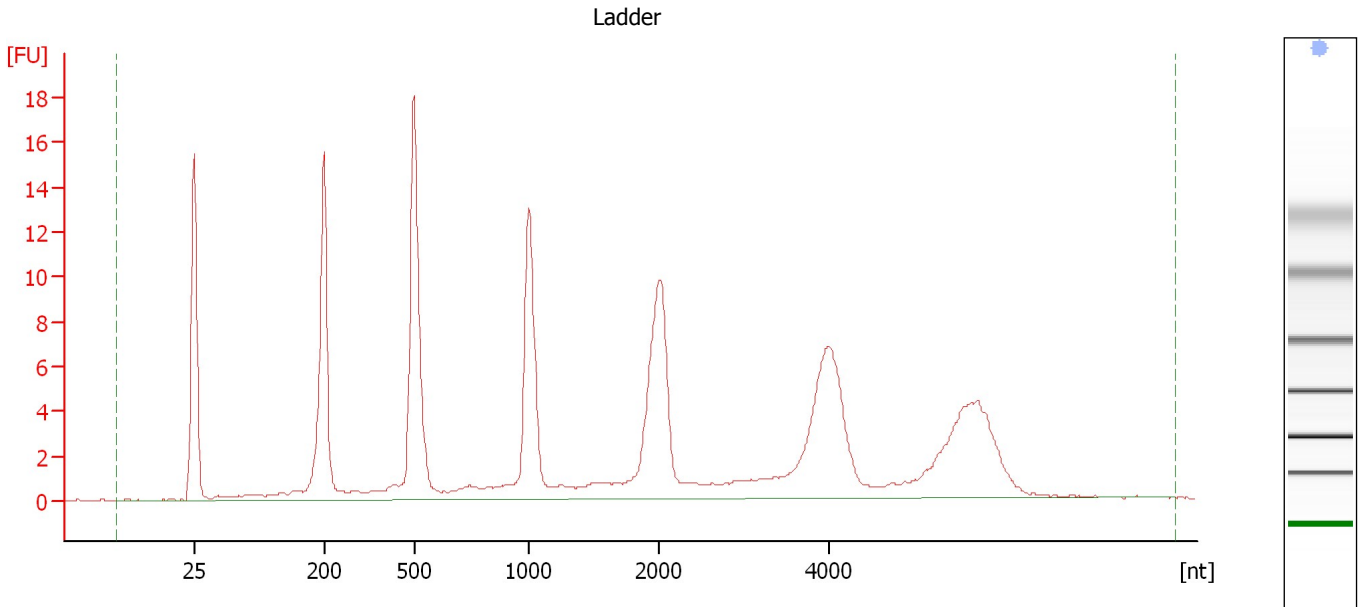
### Ladder

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\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

**Electropherogram Summary**



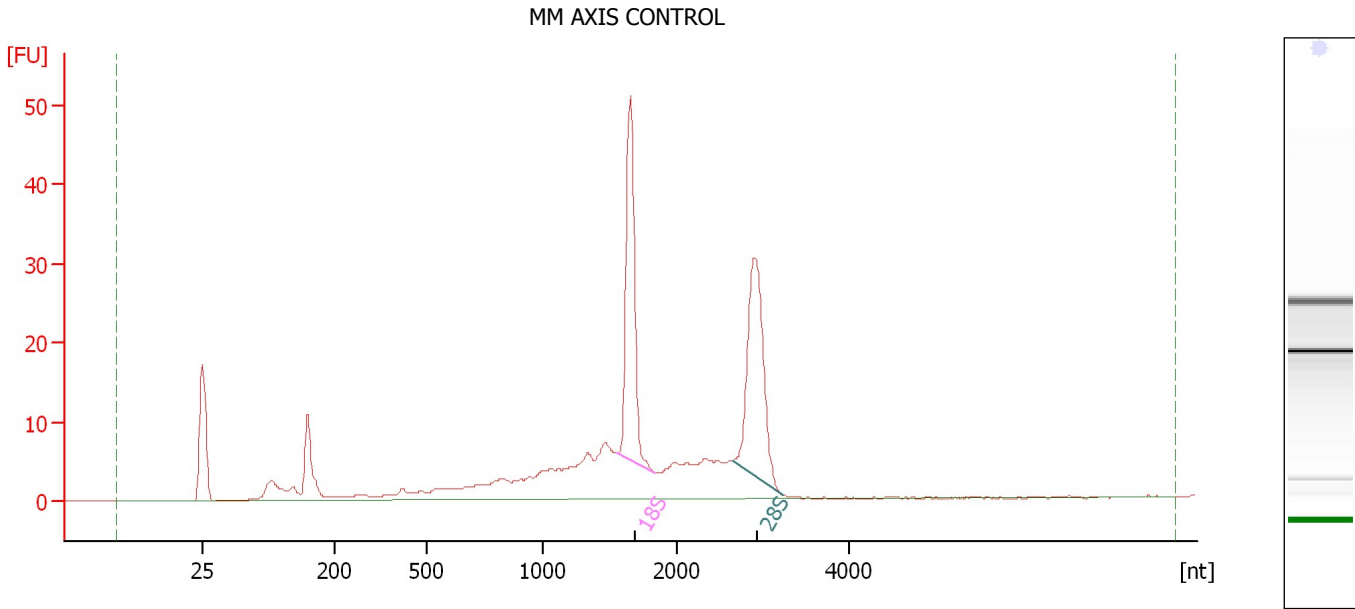
**Overall Results for Ladder**

RNA Area:	162.4	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\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : MM AXIS CONTROL**

RNA Area: 264.7 RNA Integrity Number (RIN): 7.4 (B.02.08)  
RNA Concentration: 1,629 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.40

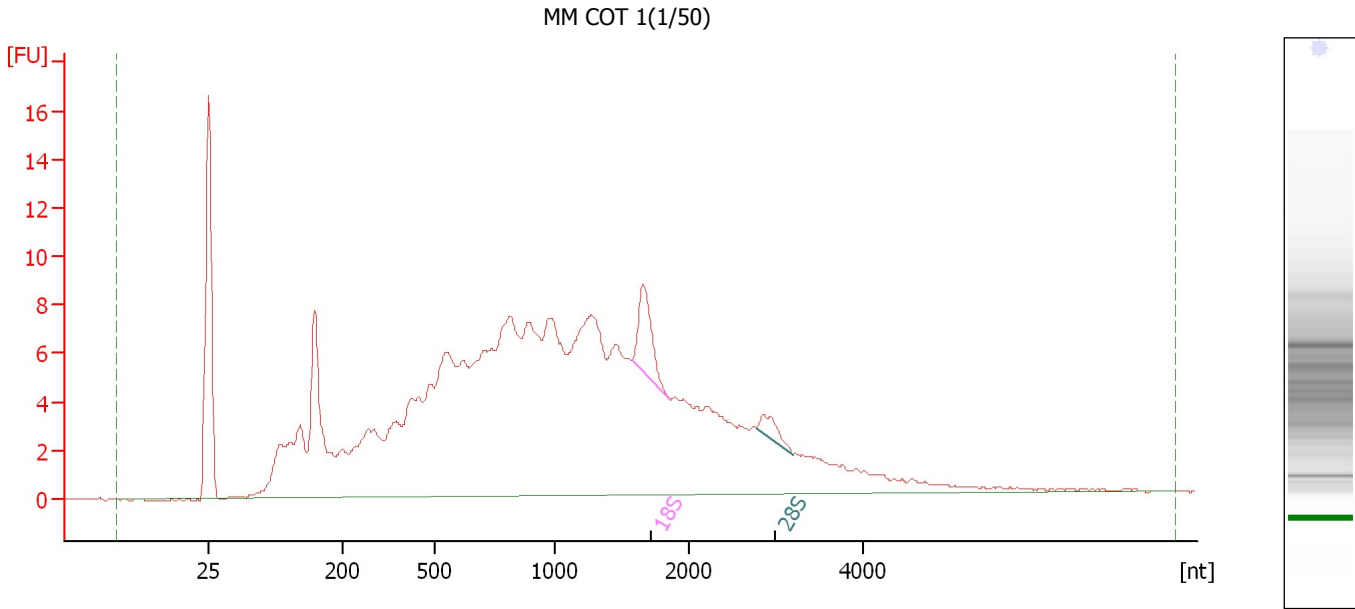
**Fragment table for sample 1 : MM AXIS CONTROL**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,544	1,842	47.0	17.7
28S	2,652	3,237	47.7	18.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : MM COT 1(1/50)**

RNA Area: 295.2 RNA Integrity Number (RIN): 3.3 (B.02.08)  
RNA Concentration: 1,817 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 3.30

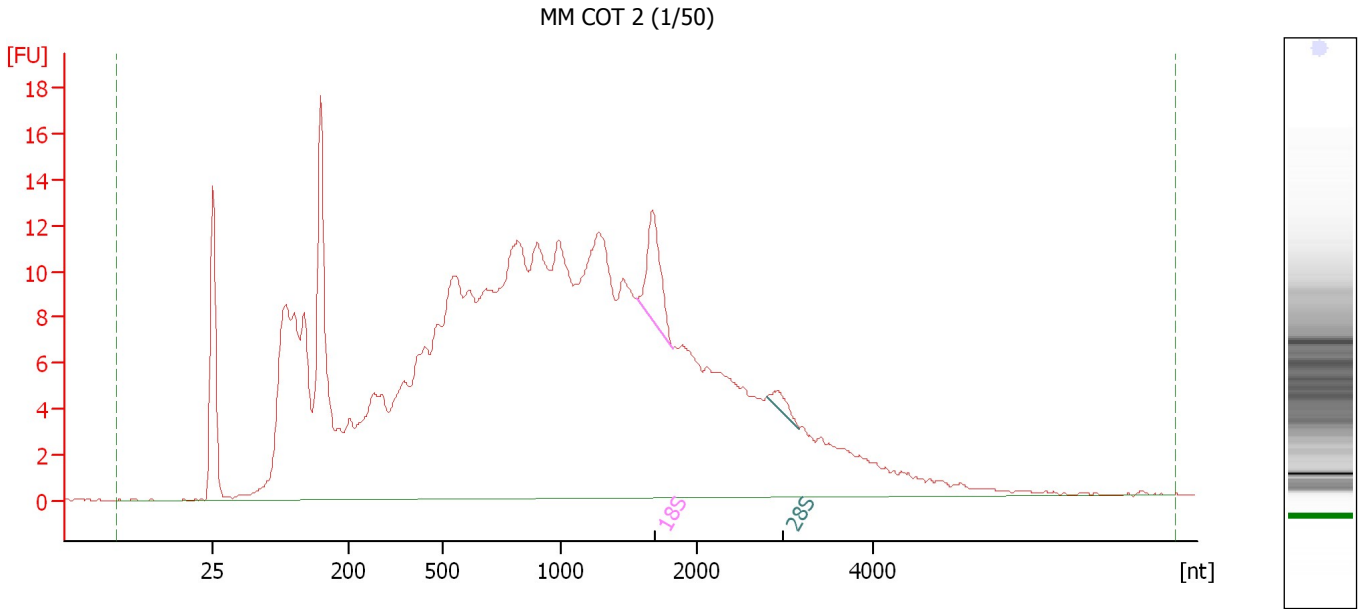
**Fragment table for sample 2 : MM COT 1(1/50)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,855	5.7	1.9
28S	2,771	3,189	1.7	0.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : MM COT 2 (1/50)**

RNA Area: 497.5 RNA Integrity Number (RIN): 2.8 (B.02.08)  
RNA Concentration: 3,063 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 2.80

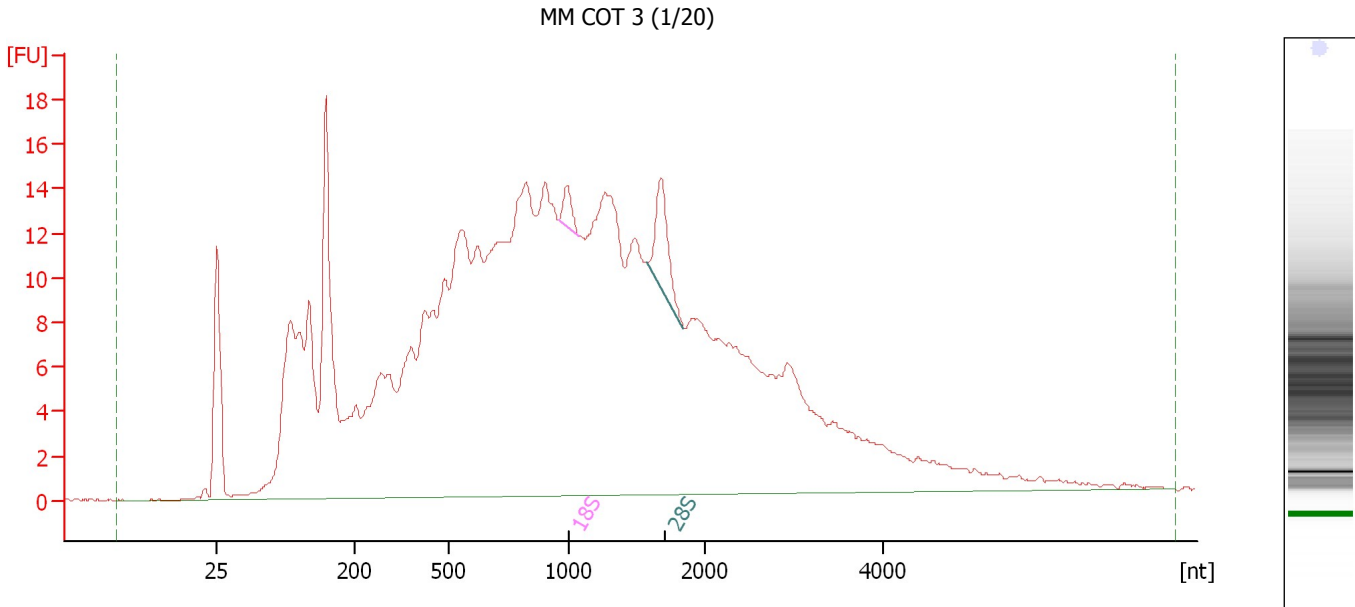
**Fragment table for sample 3 : MM COT 2 (1/50)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,550	1,818	7.9	1.6
28S	2,792	3,169	1.3	0.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
 Modified: 5/1/2013 12:52:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : MM COT 3 (1/20)**

RNA Area:	600.8	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	3,698 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]:	3.6	Result Flagging Label:	RIN: 2.50

**Fragment table for sample 4 : MM COT 3 (1/20)**

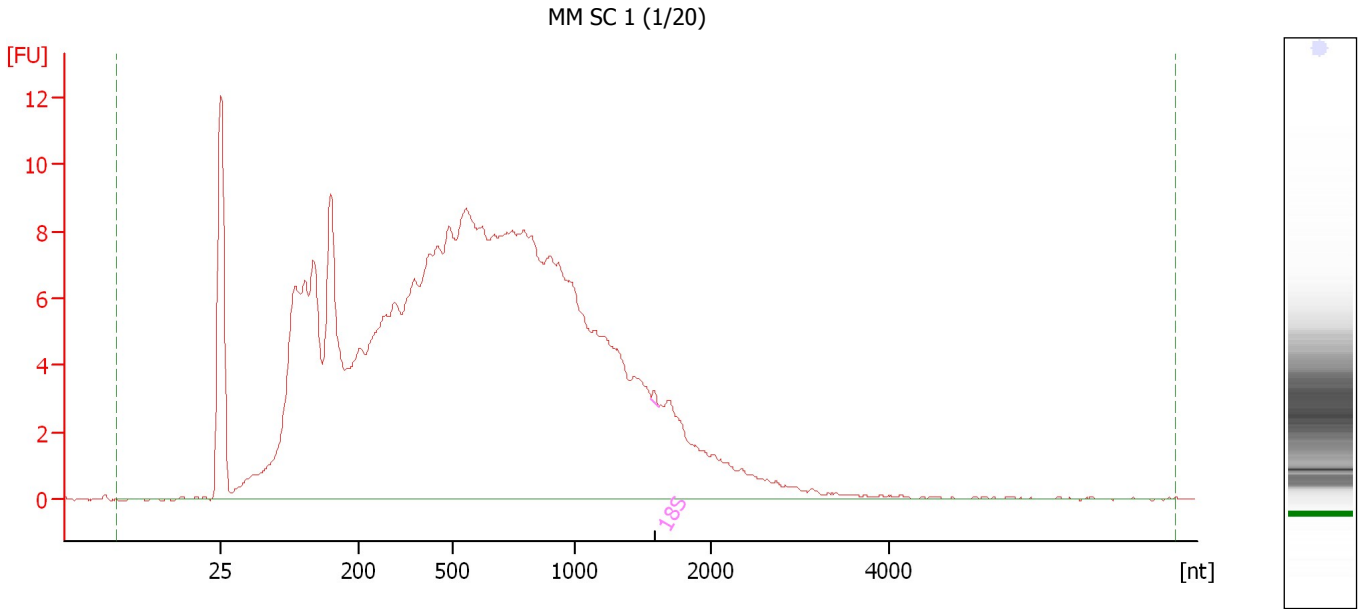
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	956	1,078	2.1	0.3
28S	1,563	1,837	7.3	1.2



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : MM SC 1 (1/20)**

RNA Area:	329.3	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,027 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: 2.20

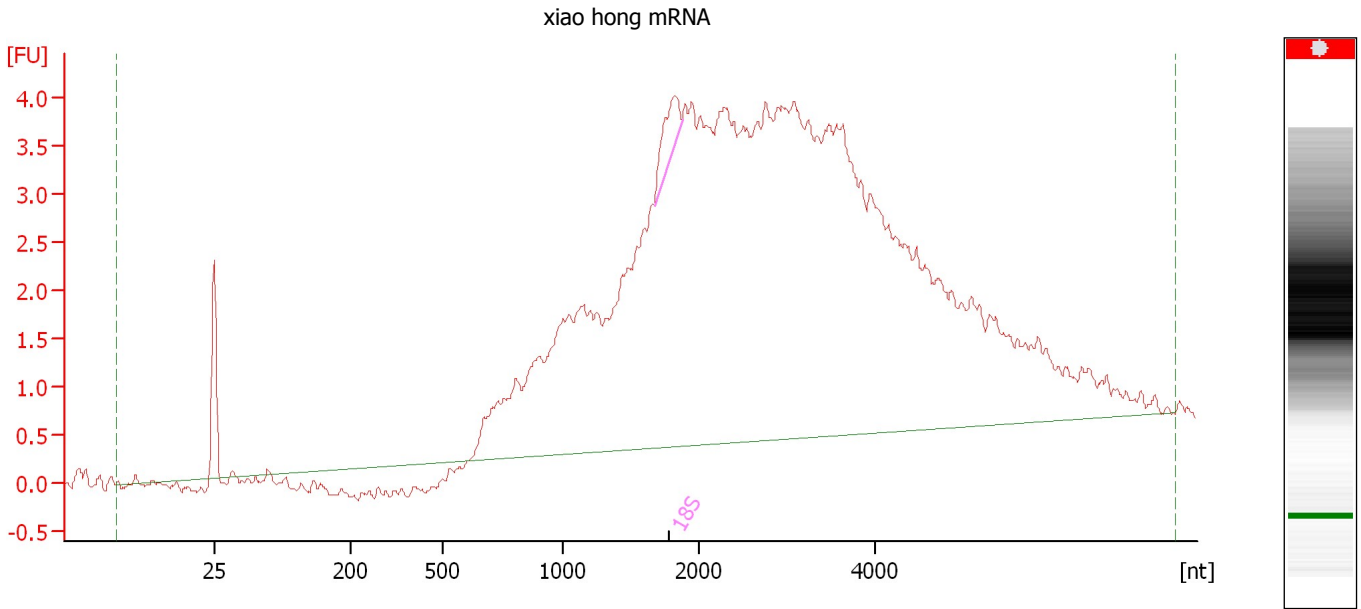
**Fragment table for sample 5 : MM SC 1 (1/20)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,614	0.2	0.1


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : xiao hong mRNA**

RNA Area:	114.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	707 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

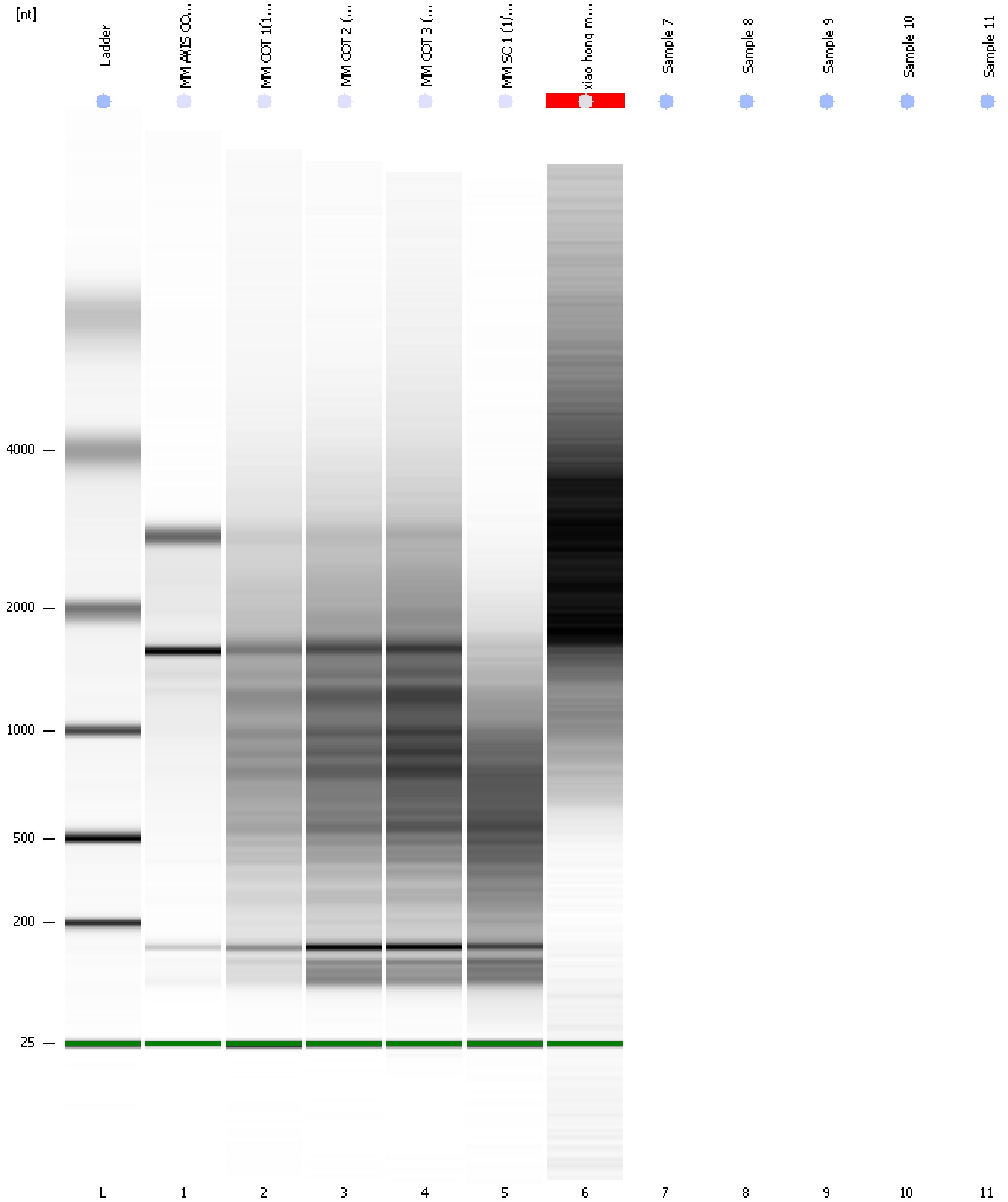
**Fragment table for sample 6 : xiao hong mRNA**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,669	1,874	1.1	1.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
Modified: 5/1/2013 12:52:00 PM

**Invalid Samples**

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-01\2013-05-01\_001.xad

Created: 5/1/2013 12:36:15 PM  
 Modified: 5/1/2013 12:52:00 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		5/1/2013 12:51:58 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-01\2013-05-01_001.xad)		Instrument	Run		5/1/2013 12:36:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/1/2013 12:36:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/1/2013 12:36:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/1/2013 12:36:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/1/2013 12:36:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/1/2013 12:36:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/1/2013 12:36:20 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1