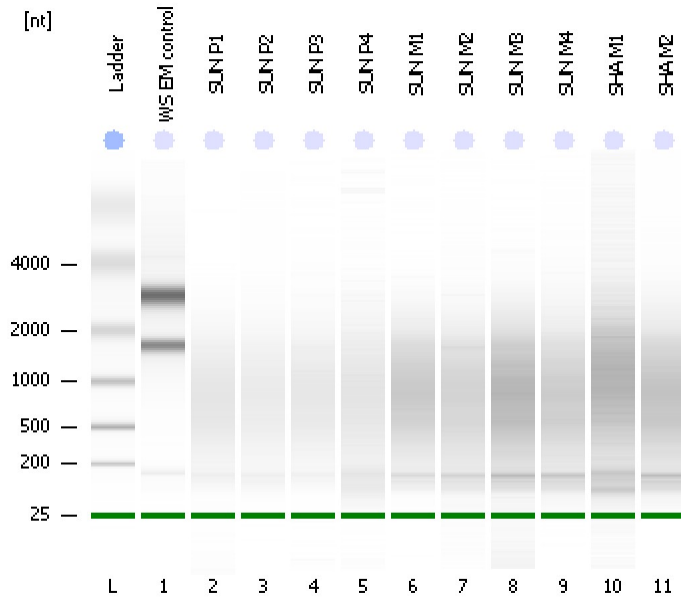


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 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)

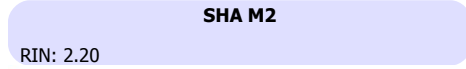
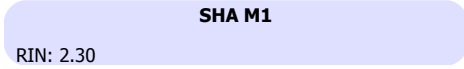
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#### Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
WS EM control		✓	RIN:10	
SUN P1		✓	RIN: 1.30	
SUN P2		✓	RIN: 1.40	
SUN P3		✓	RIN: 1.60	
SUN P4		✓	RIN: 1.10	
SUN M1		✓	RIN:2	
SUN M2		✓	RIN: 2.30	
SUN M3		✓	RIN: 2.20	
SUN M4		✓	RIN:2	
SHA M1		✓	RIN: 2.30	
SHA M2		✓	RIN: 2.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
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**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

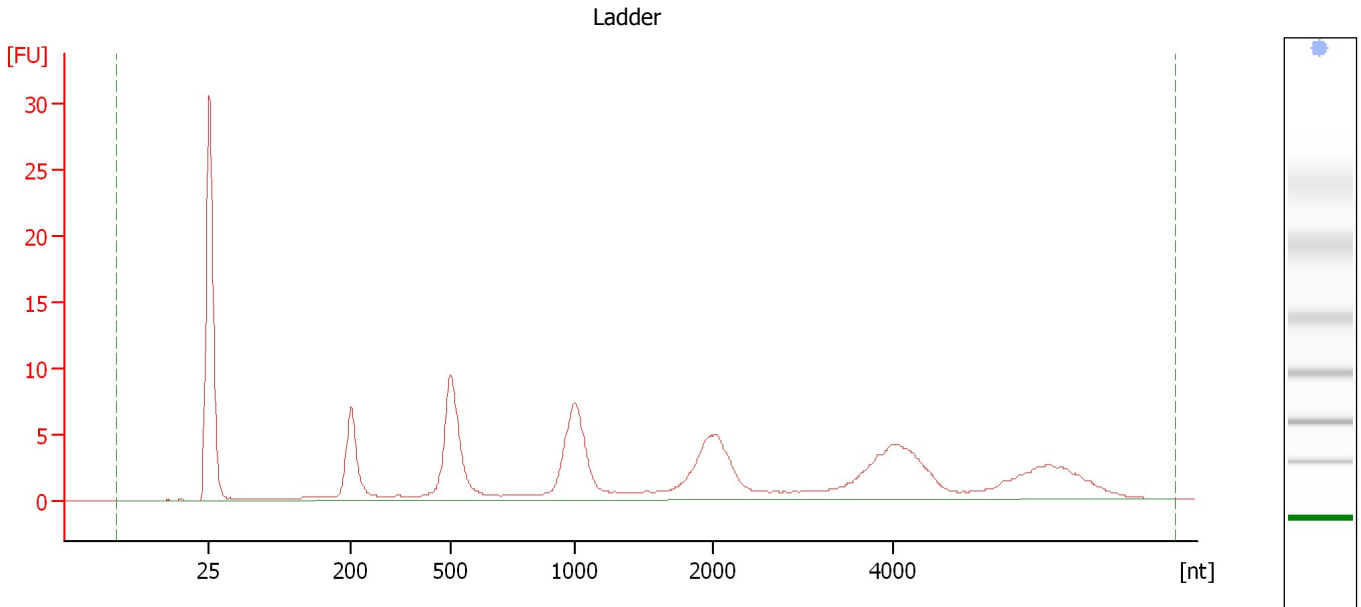
**Ladder**

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\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary**



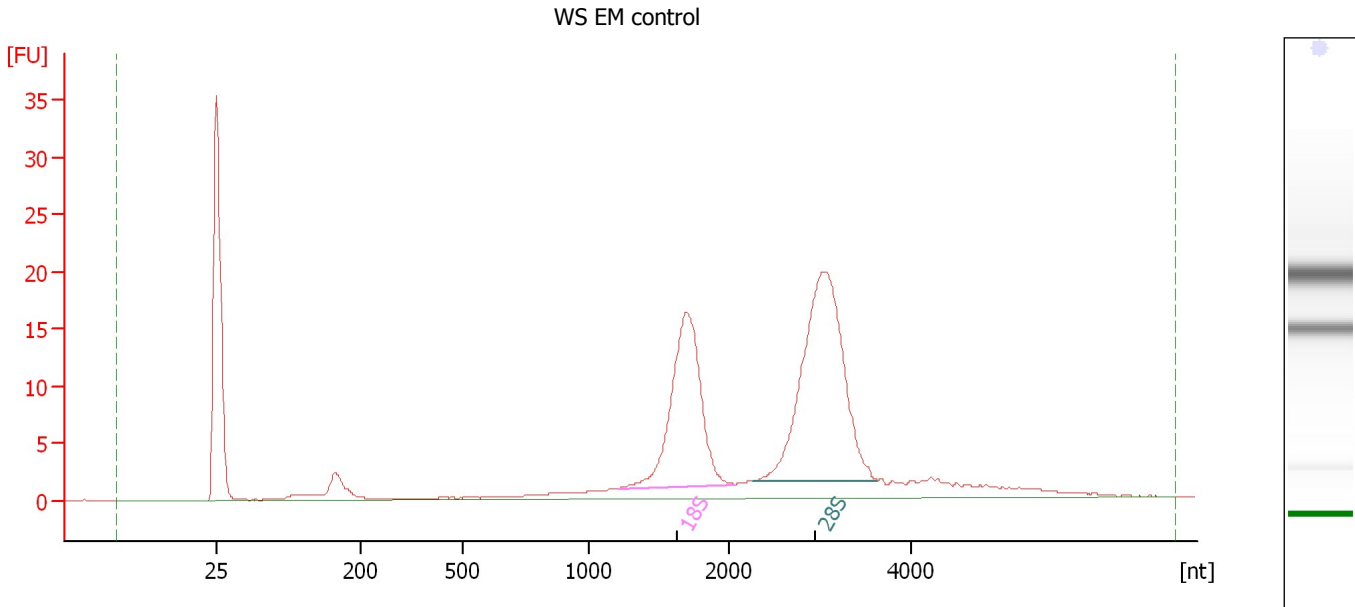
**Overall Results for Ladder**

RNA Area:	140.5	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\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : WS EM control**

RNA Area: 198.7 RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 1,414 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:10

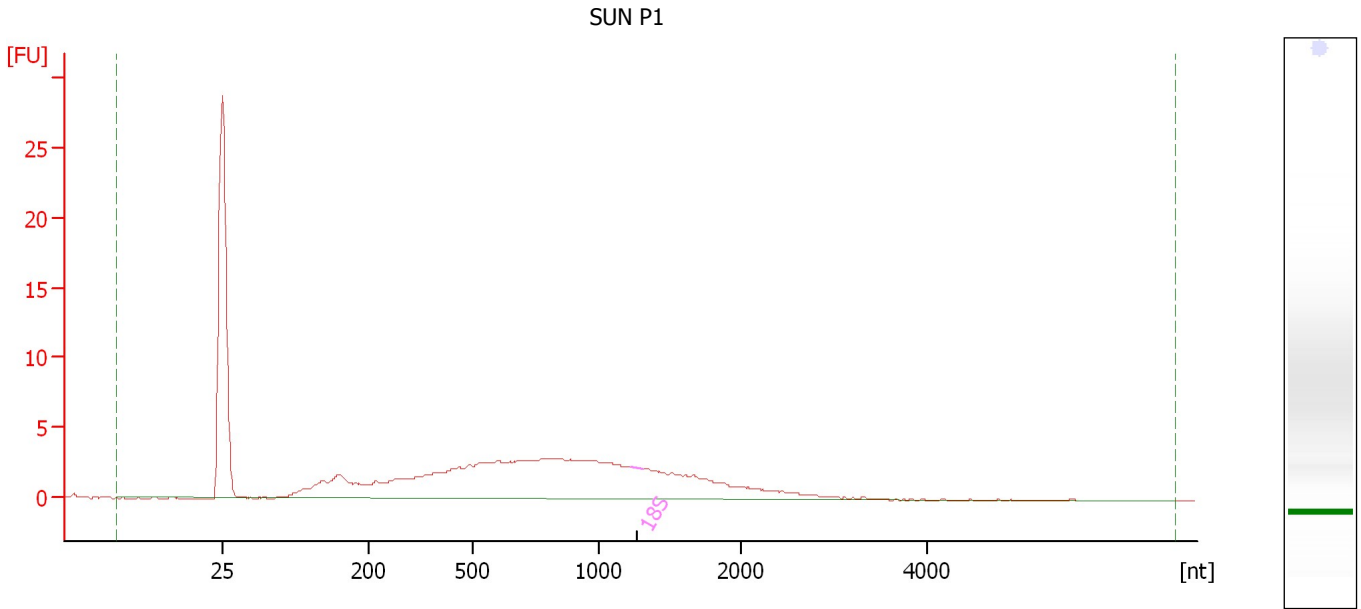
**Fragment table for sample 1 : WS EM control**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,221	2,082	52.5	26.4
28S	2,268	3,633	78.1	39.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : SUN P1**

RNA Area:	108.3	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	770 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: 1.30

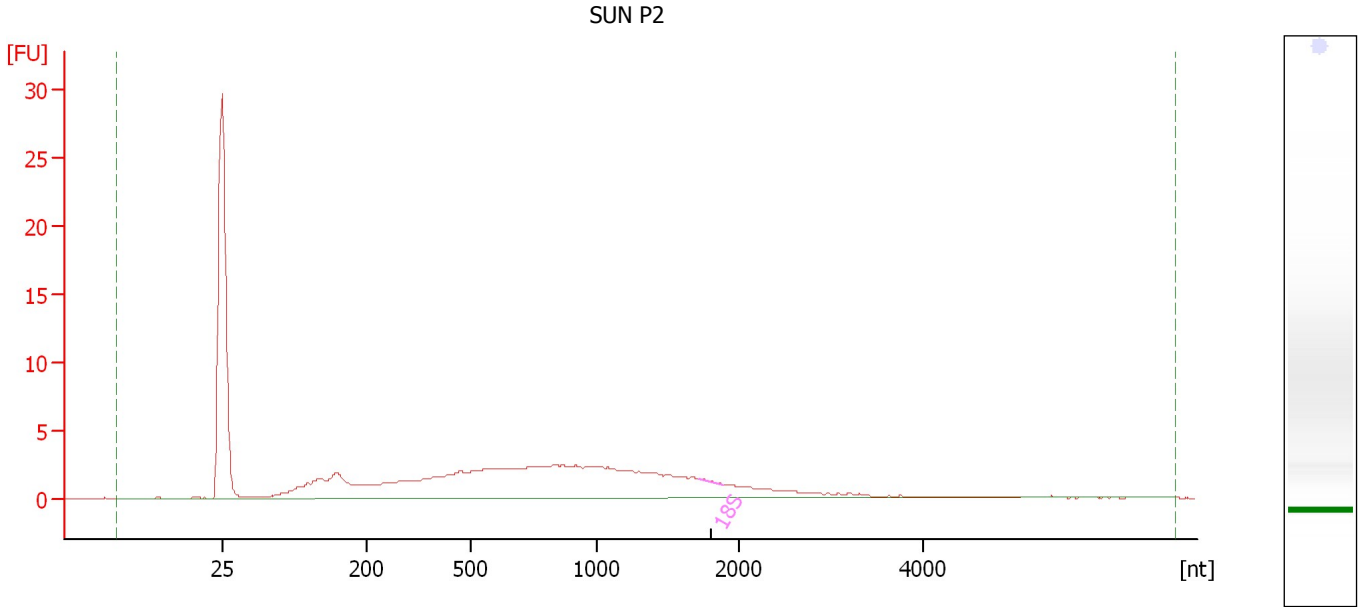
**Fragment table for sample 2 : SUN P1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,223	1,314	0.1	0.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : SUN P2**

RNA Area:	105.2	RNA Integrity Number (RIN):	1.4 (B.02.08)
RNA Concentration:	749 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: 1.40

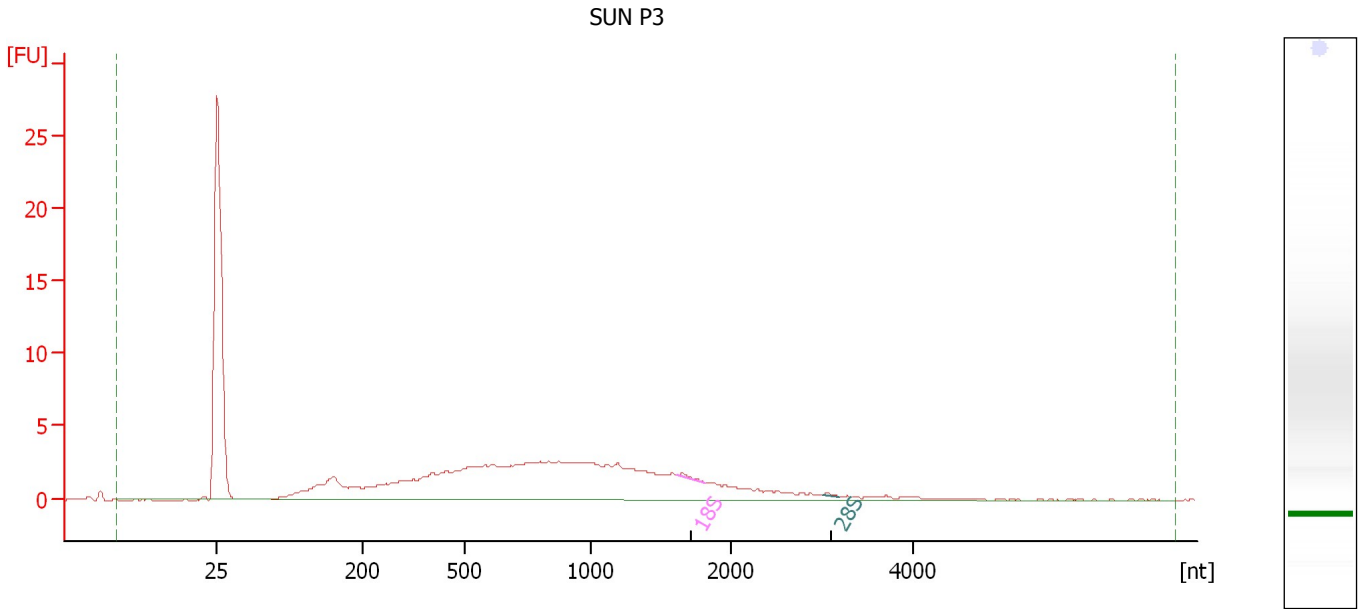
**Fragment table for sample 3 : SUN P2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,720	1,894	0.2	0.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : SUN P3**

RNA Area:	102.9	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	732 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: 1.60

**Fragment table for sample 4 : SUN P3**

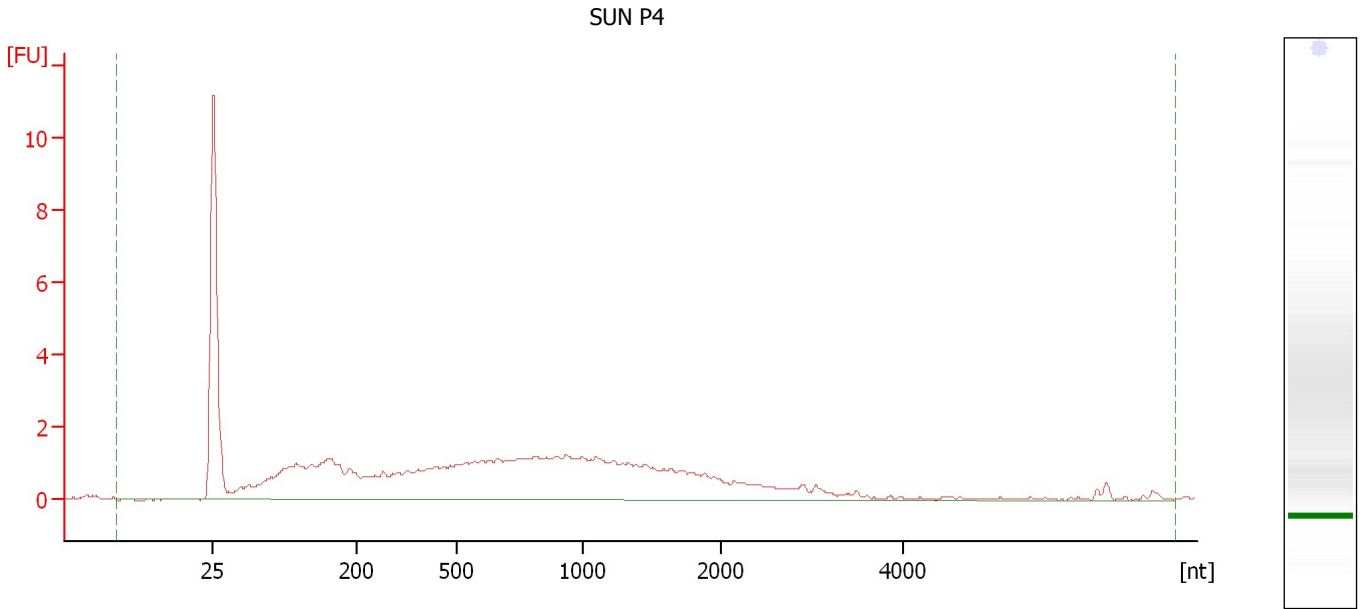
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,817	0.3	0.3
28S	3,013	3,176	0.1	0.1



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary Continued ...**



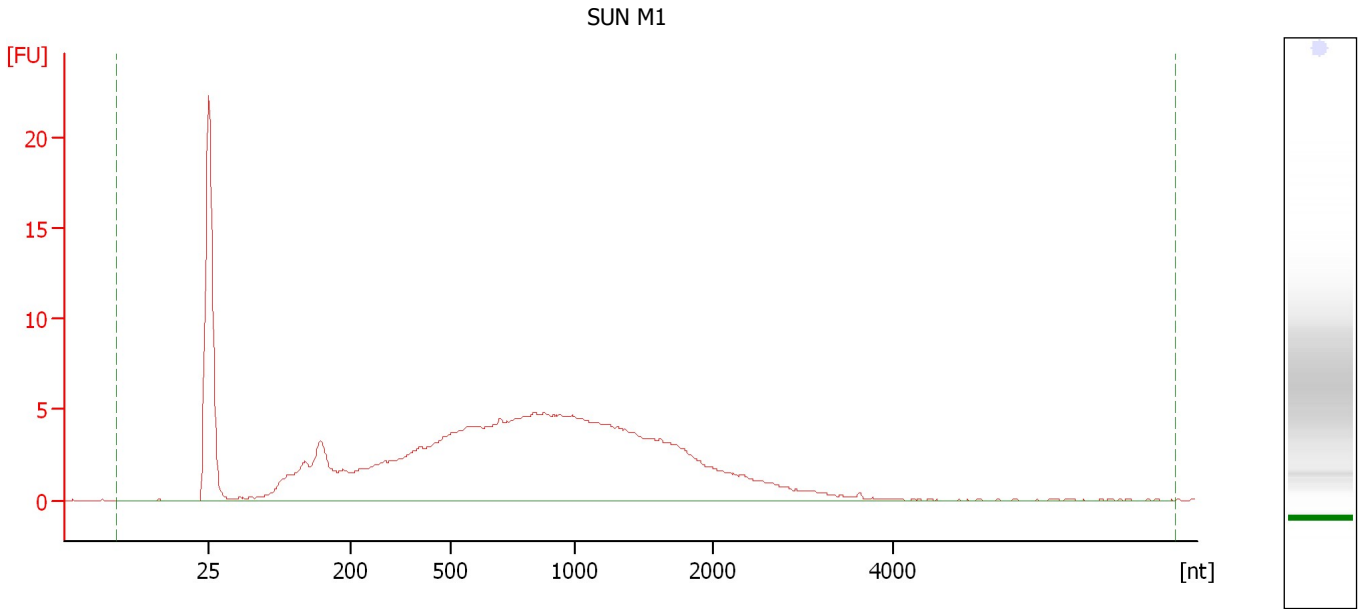
**Overall Results for sample 5 : SUN P4**

RNA Area:	61.9	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	440 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: 1.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary Continued ...**



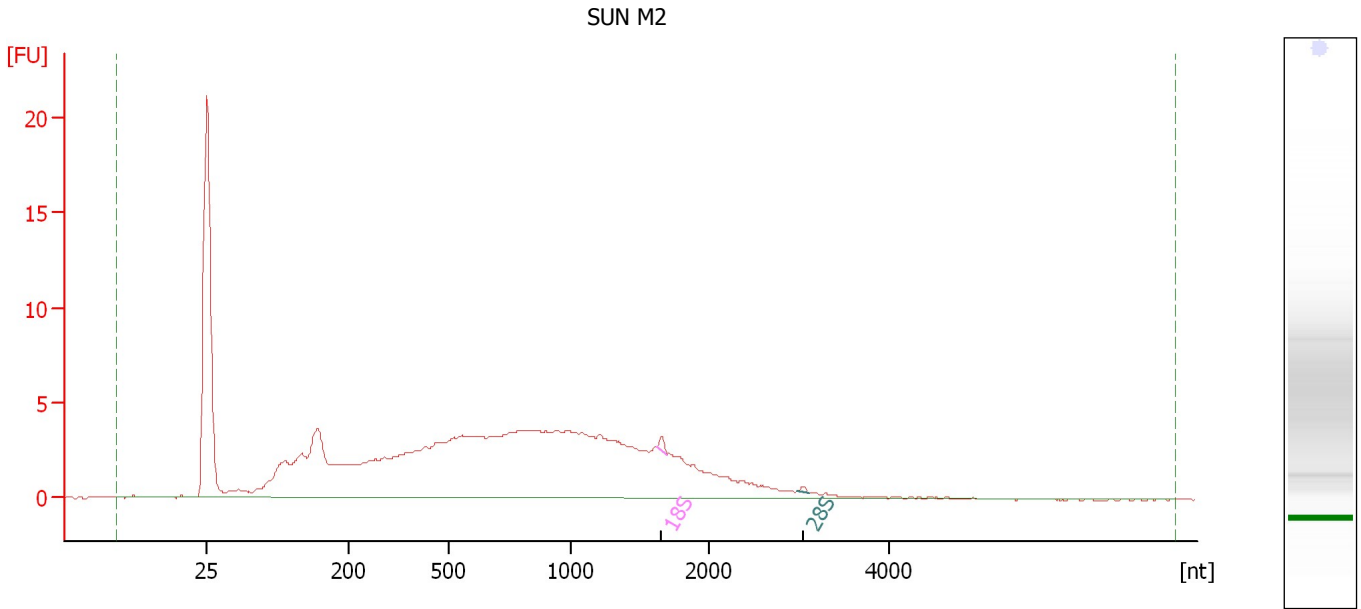
**Overall Results for sample 6 : SUN M1**

RNA Area:	190.5	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	1,356 pg/ $\mu$ l	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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : SUN M2**

RNA Area:	160.3	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,141 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]:	0.5	Result Flagging Label:	RIN: 2.30

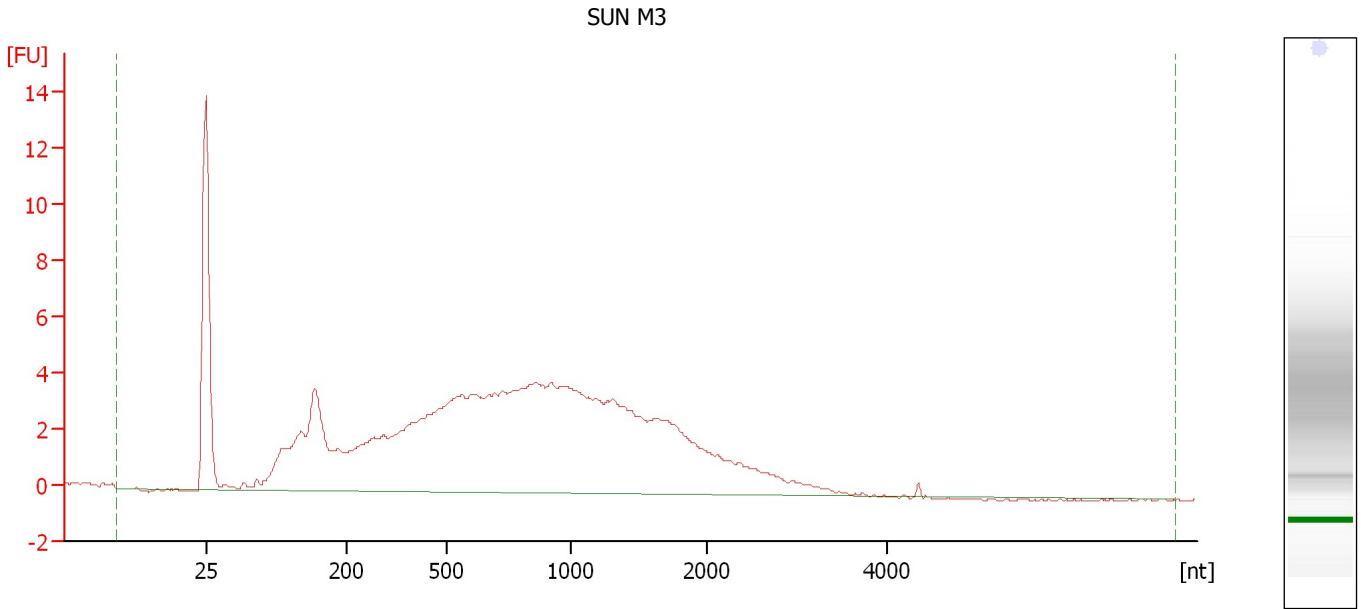
**Fragment table for sample 7 : SUN M2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,696	0.4	0.2
28S	2,974	3,105	0.2	0.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary Continued ...**



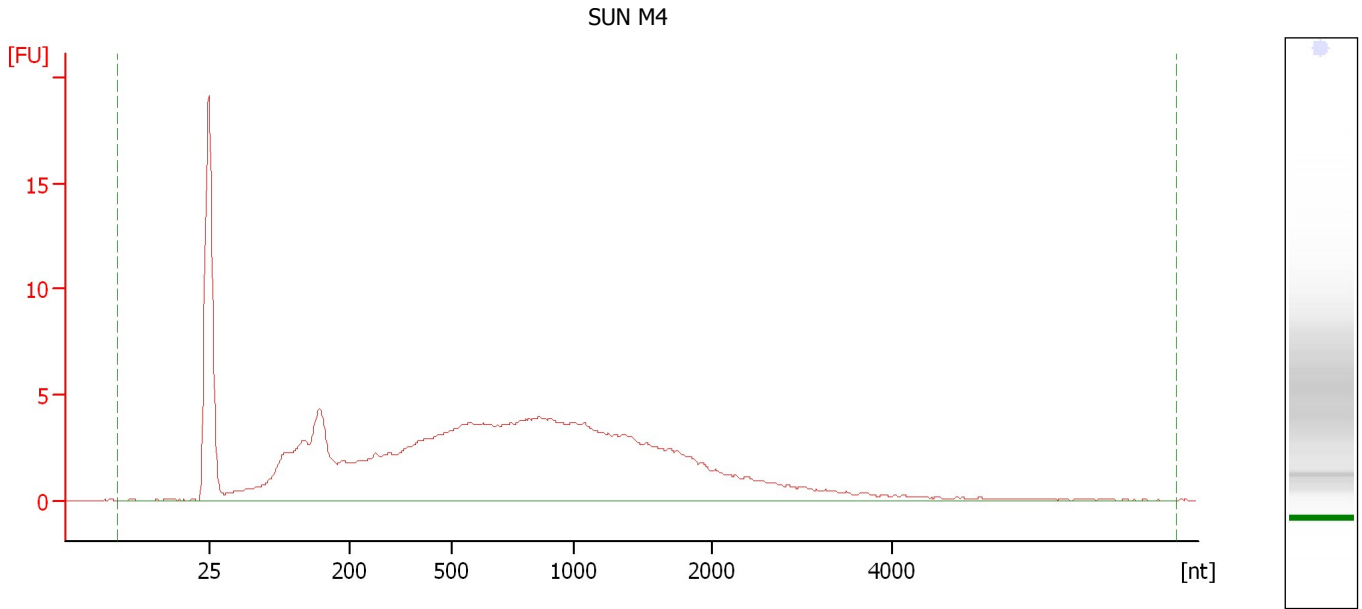
**Overall Results for sample 8 : SUN M3**

RNA Area:	159.9	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	1,138 pg/ $\mu$ l	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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary Continued ...**



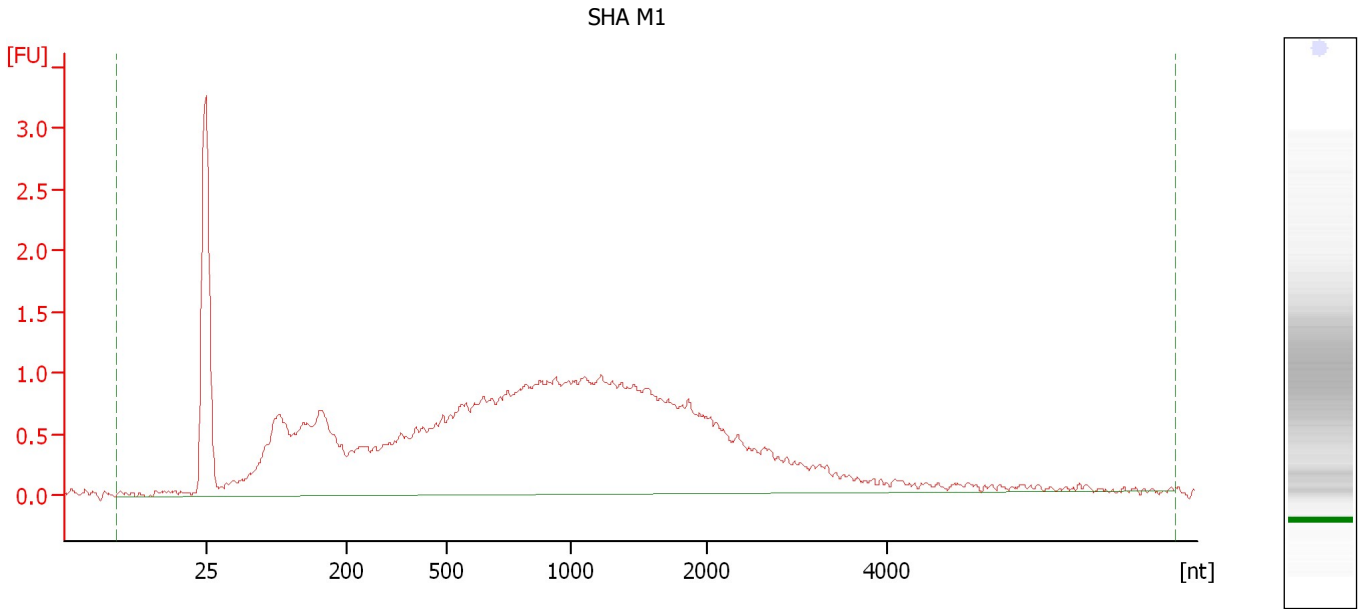
**Overall Results for sample 9 : SUN M4**

RNA Area:	182.7	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	1,300 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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary Continued ...**



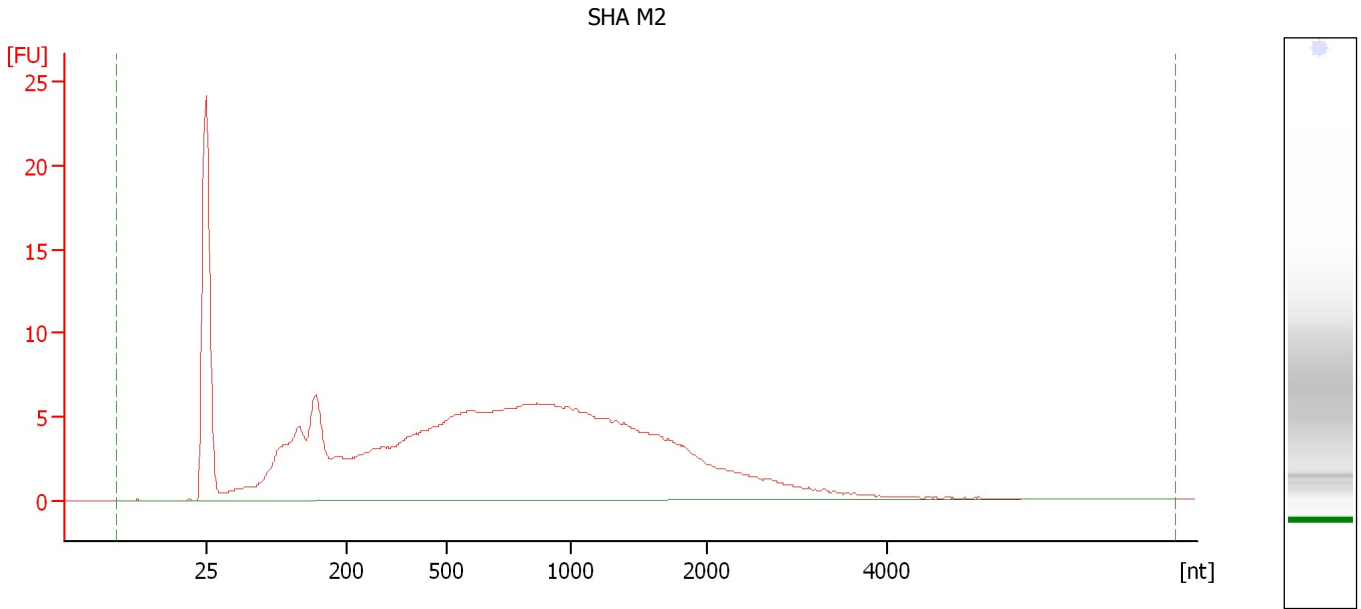
**Overall Results for sample 10 : SHA M1**

RNA Area:	45.8	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	326 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: 2.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
Modified: 11/19/2012 4:49:23 PM

**Electropherogram Summary Continued ...**



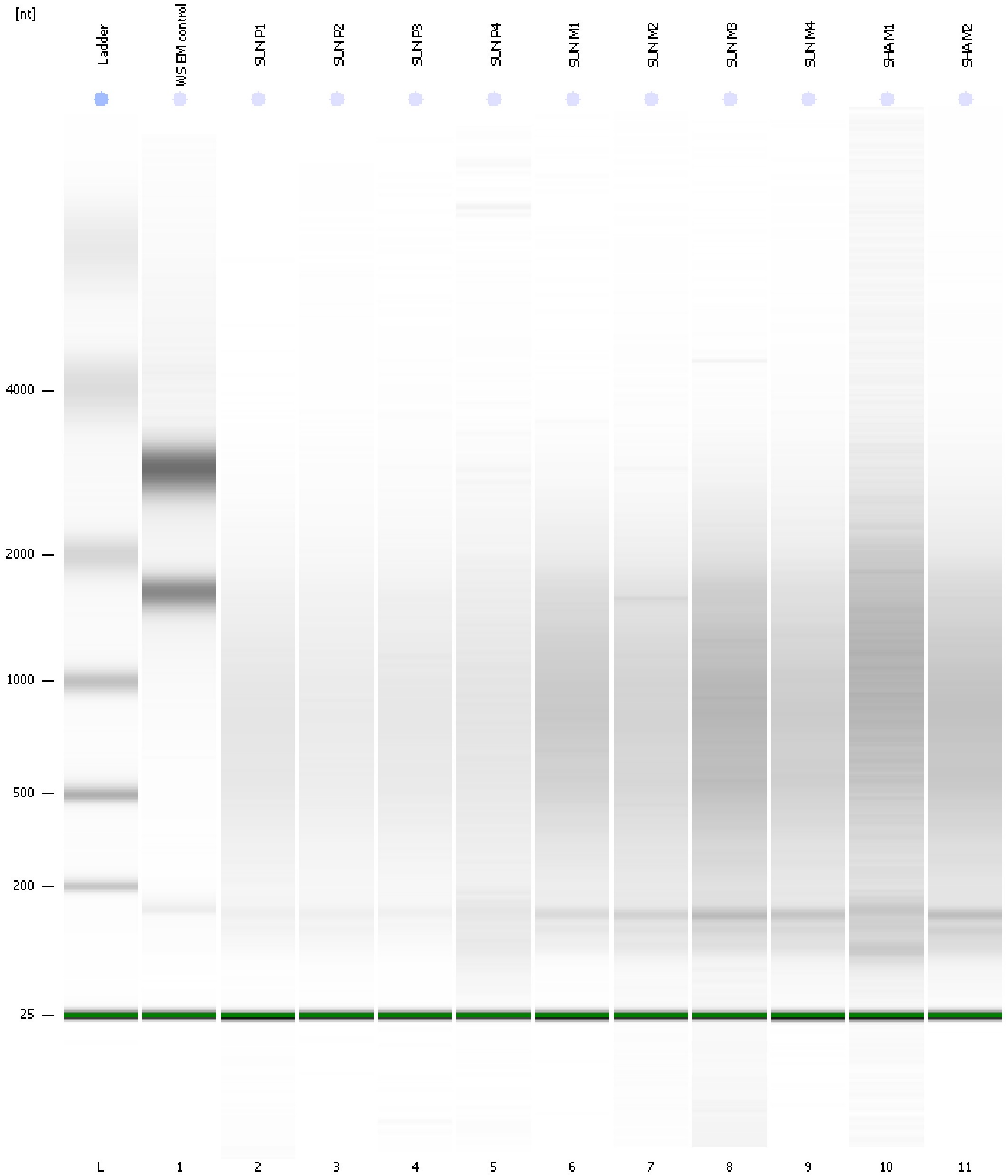
**Overall Results for sample 11 : SHA M2**

RNA Area:	259.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	1,847 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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
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**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-11-19\2012-11-19\_006.xad

Created: 11/19/2012 4:26:21 PM  
 Modified: 11/19/2012 4:49:23 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		11/19/2012 4:49:16 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-11-19\2012-11-19_006.xad)		Instrument	Run		11/19/2012 4:26:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/19/2012 4:26:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/19/2012 4:26:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/19/2012 4:26:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/19/2012 4:26:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/19/2012 4:26:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/19/2012 4:26:27 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1