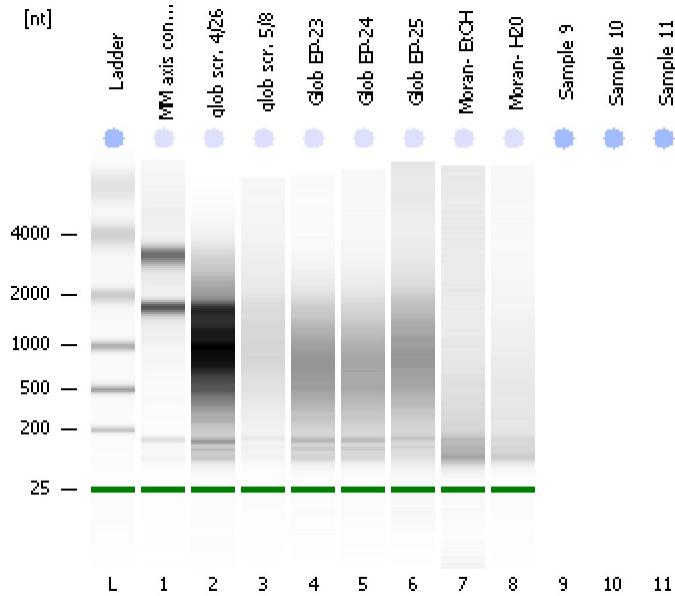


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

Electrophoresis File Run Summary



Instrument Information:

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

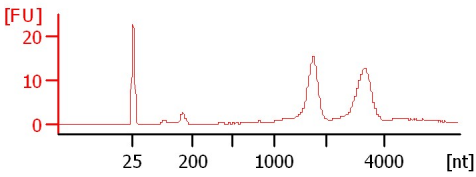
Assay Information:

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.

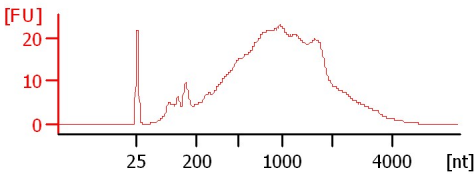
Chip Information:

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

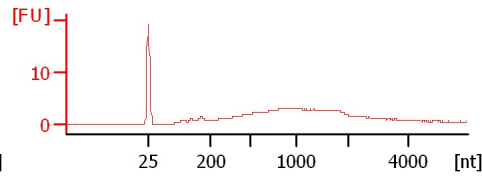
**MM axis control**  
RIN:10



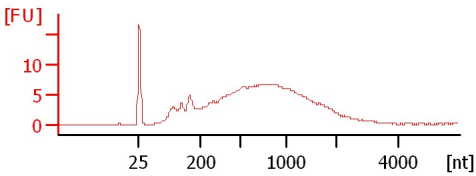
**glob scr. 4/26**  
RIN: 2.30



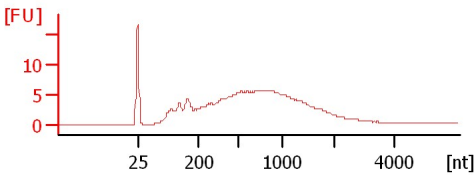
**glob scr. 5/8**  
RIN: 4.10



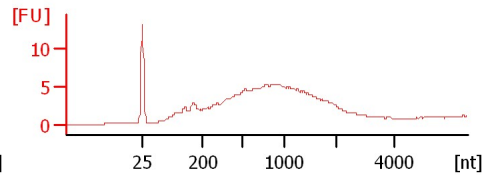
**Glob EP-23**  
RIN: 2.30



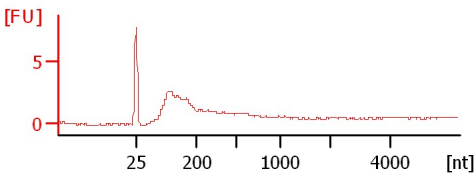
**Glob EP-24**  
RIN: 2.30



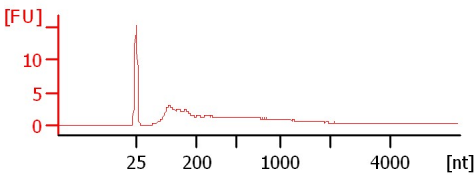
**Glob EP-25**  
RIN: 2.40



**Moran- EtOH**  
RIN: 2.30



**Moran- H2O**  
RIN: 1.80



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
 Modified: 5/21/2013 12:21:36 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
MM axis control		✓	RIN:10	
glob scr. 4/26		✓	RIN: 2.30	
glob scr. 5/8		✓	RIN: 4.10	
Glob EP-23		✓	RIN: 2.30	
Glob EP-24		✓	RIN: 2.30	
Glob EP-25		✓	RIN: 2.40	
Moran- EtOH		✓	RIN: 2.30	
Moran- H2O		✓	RIN: 1.80	
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\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 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

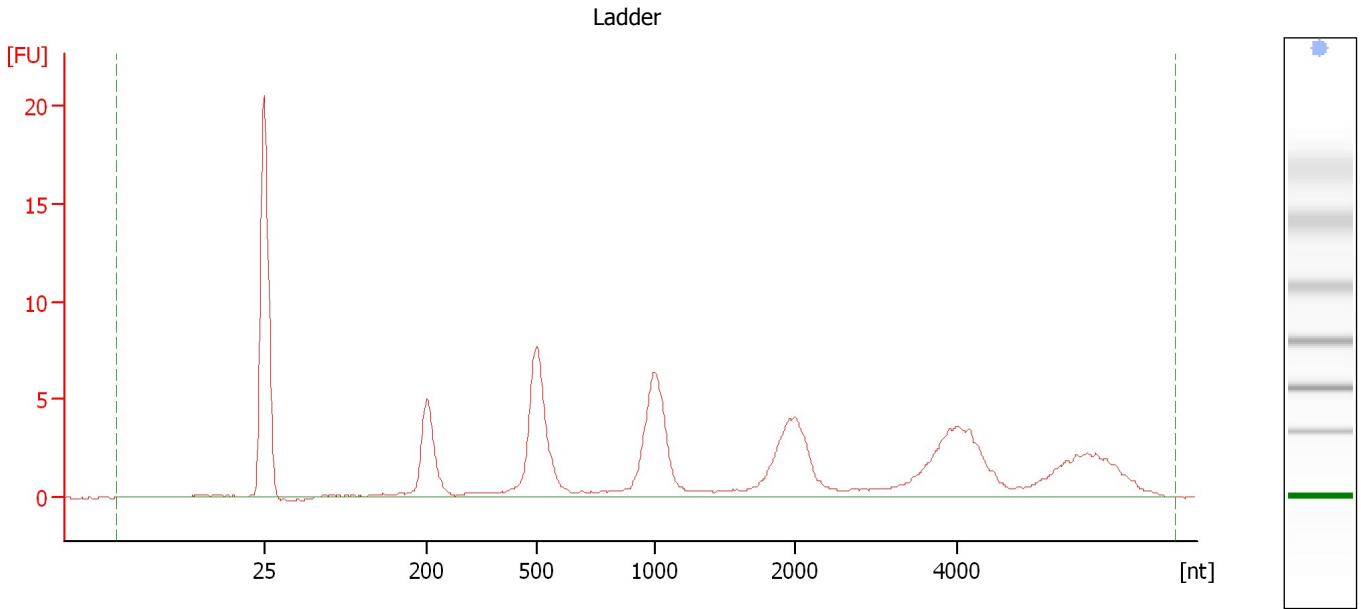
### Ladder

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\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary**



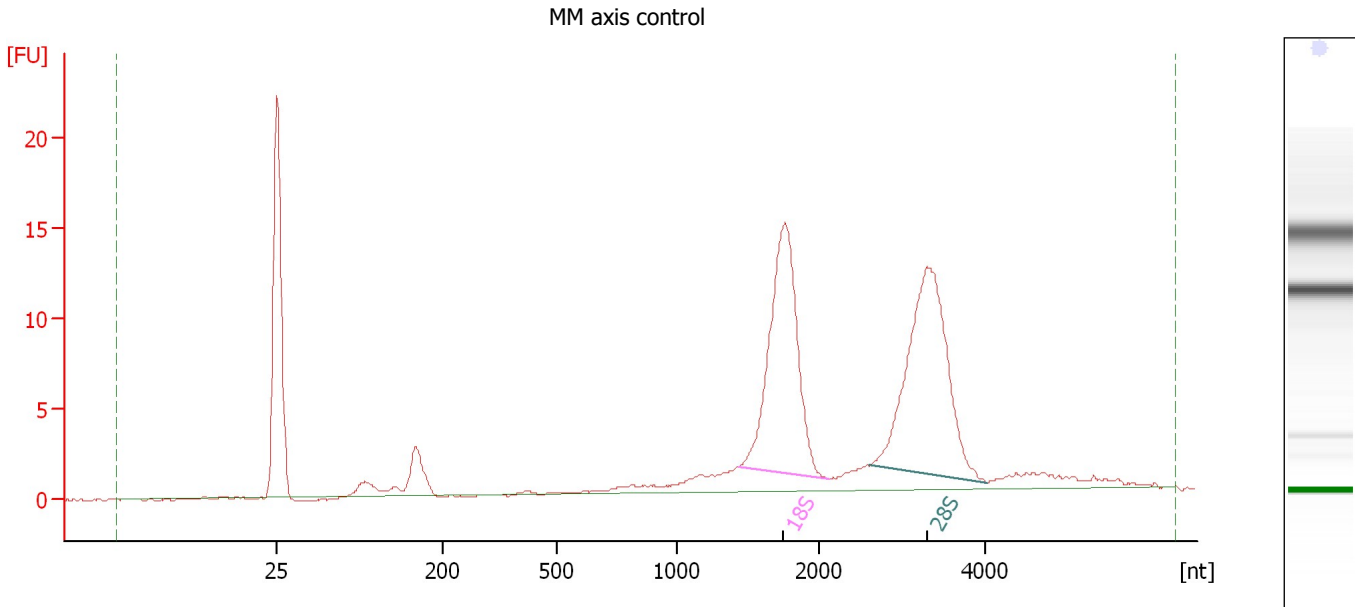
**Overall Results for Ladder**

RNA Area:	96.5	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\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : MM axis control**

RNA Area: 128.9                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 1,335 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN:10

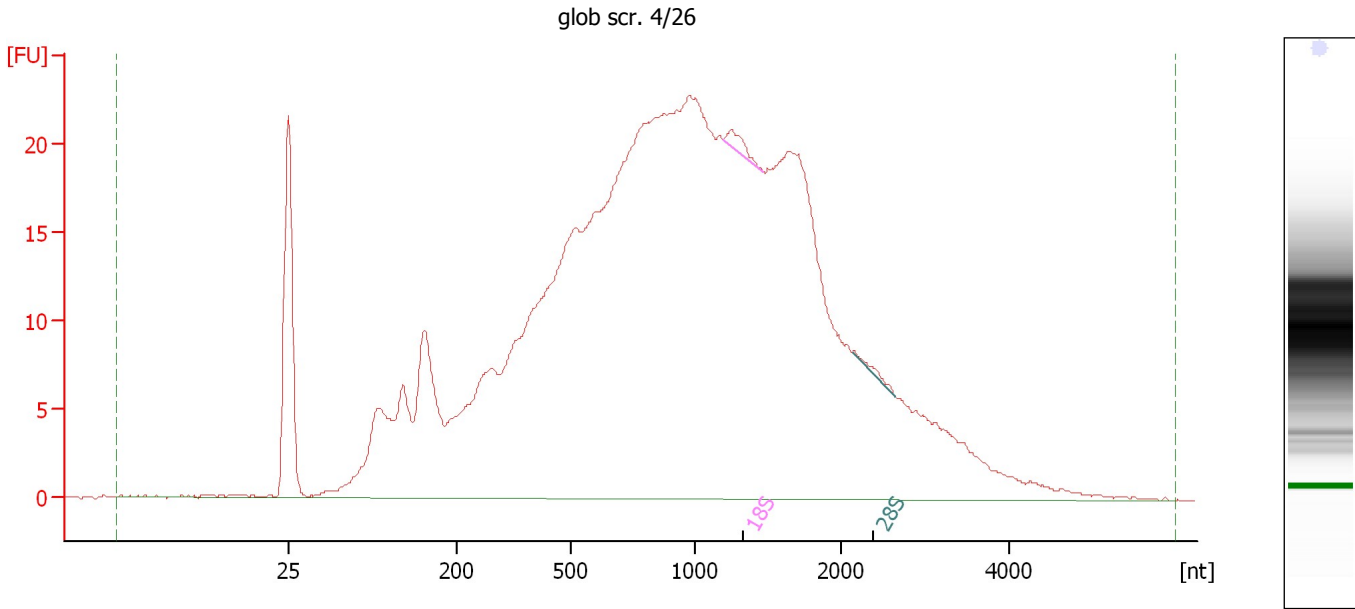
**Fragment table for sample 1 : MM axis control**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,433	2,112	41.1	31.9
28S	2,588	4,029	43.3	33.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : glob scr. 4/26**

RNA Area: 785.7 RNA Integrity Number (RIN): 2.3 (B.02.08)  
RNA Concentration: 8,139 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 2.30

**Fragment table for sample 2 : glob scr. 4/26**

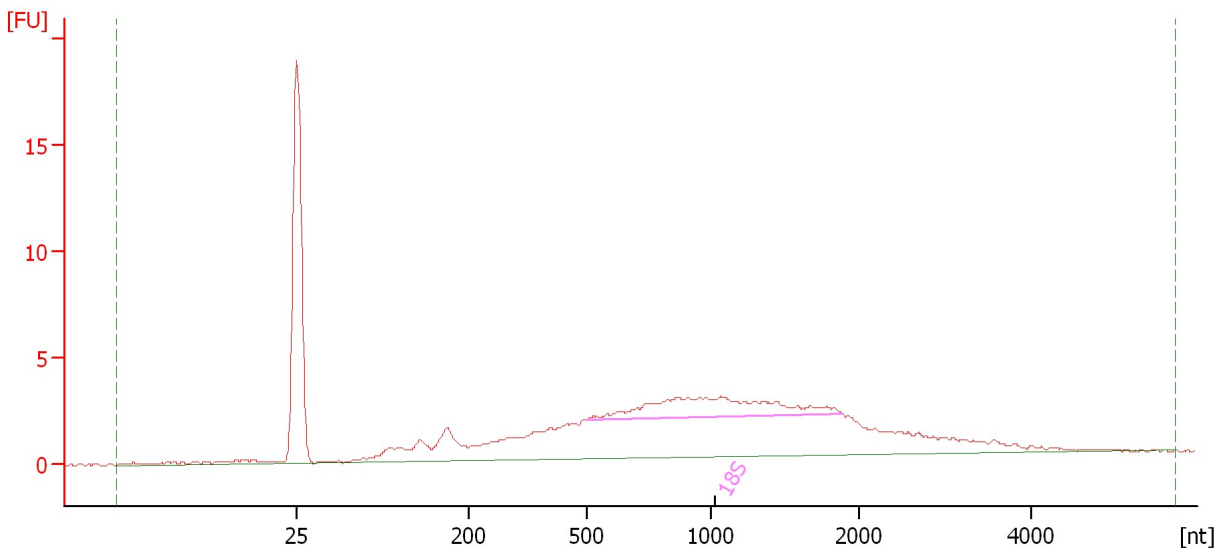
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,197	1,463	1.9	0.2
28S	2,143	2,661	0.8	0.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary Continued ...**

glob scr. 5/8



**Overall Results for sample 3 : glob scr. 5/8**

RNA Area:	105.2	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	1,090 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: 4.10

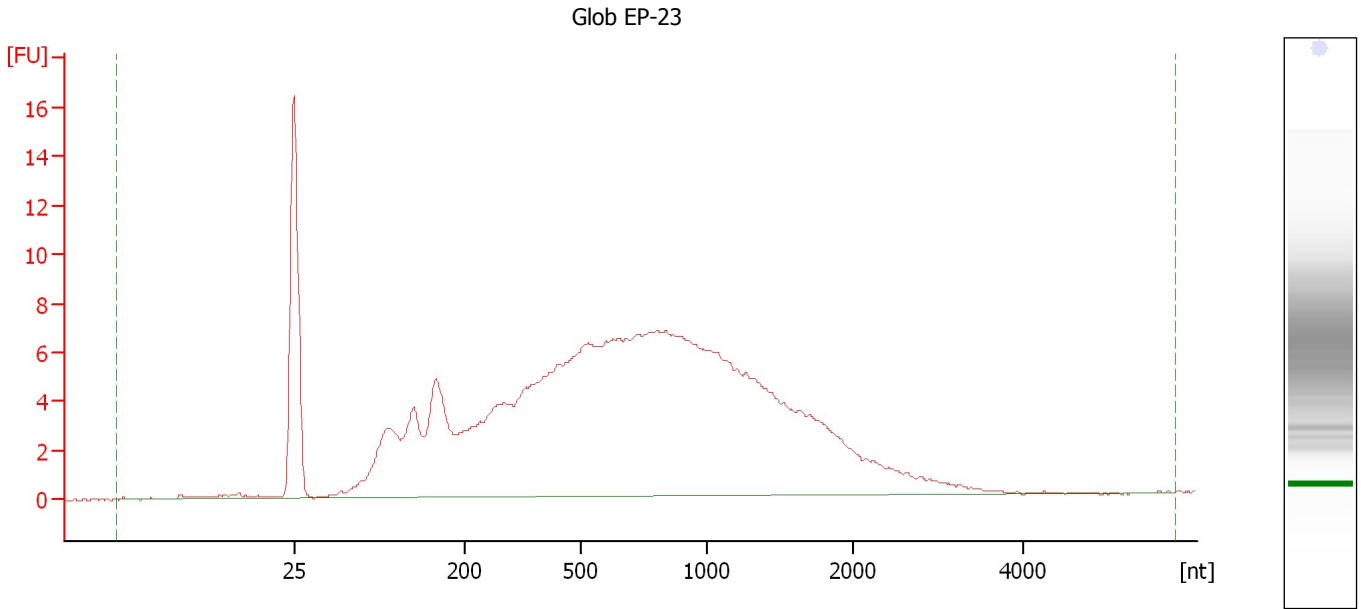
**Fragment table for sample 3 : glob scr. 5/8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	504	1,897	14.3	13.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Glob EP-23**

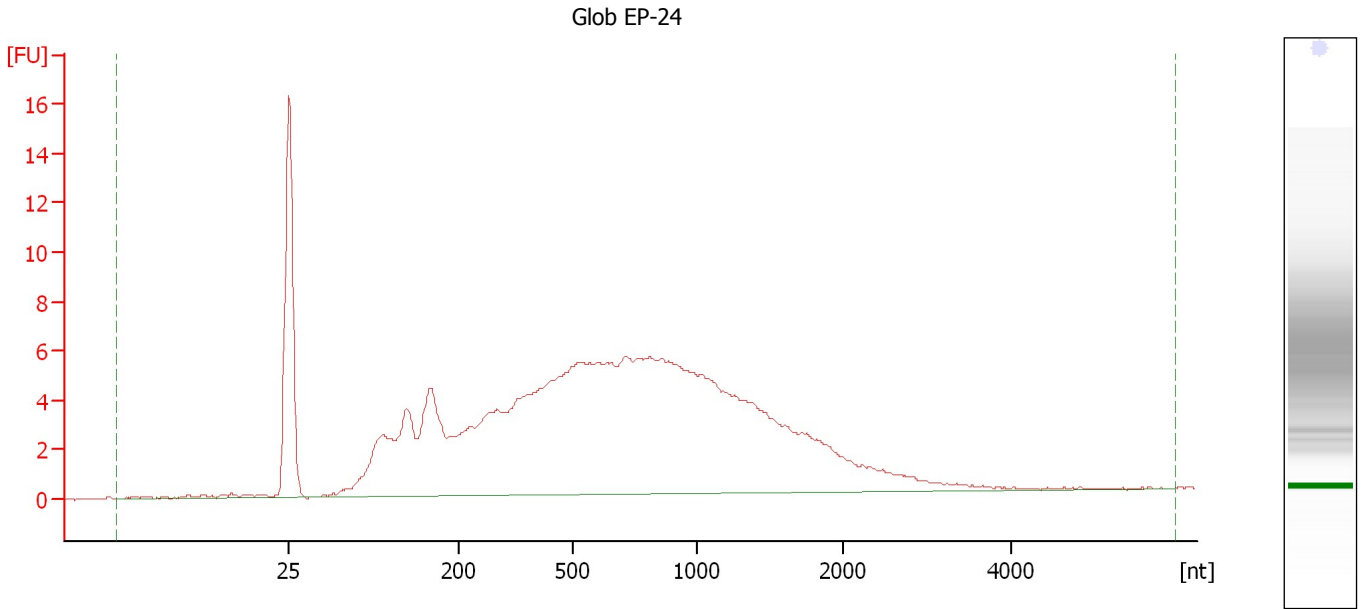
RNA Area:	250.1	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	2,590 pg/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary Continued ...**



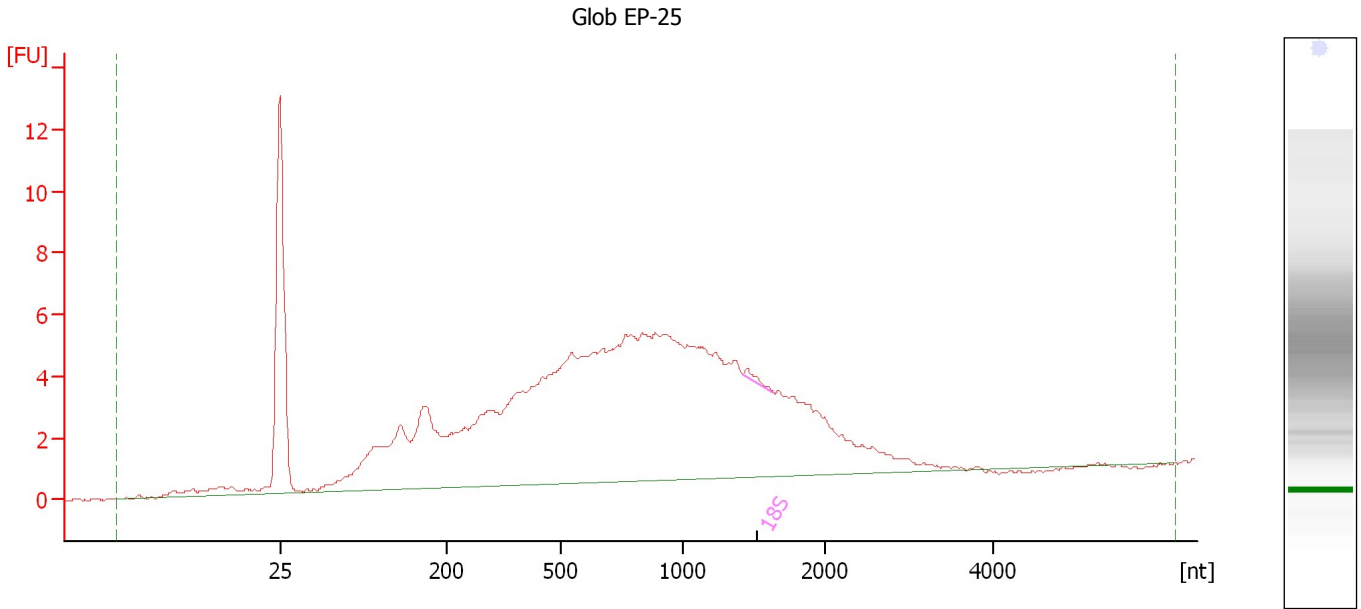
**Overall Results for sample 5 : Glob EP-24**

RNA Area:	211.0	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	2,186 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: 2.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Glob EP-25**

RNA Area:	175.7	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	1,820 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: 2.40

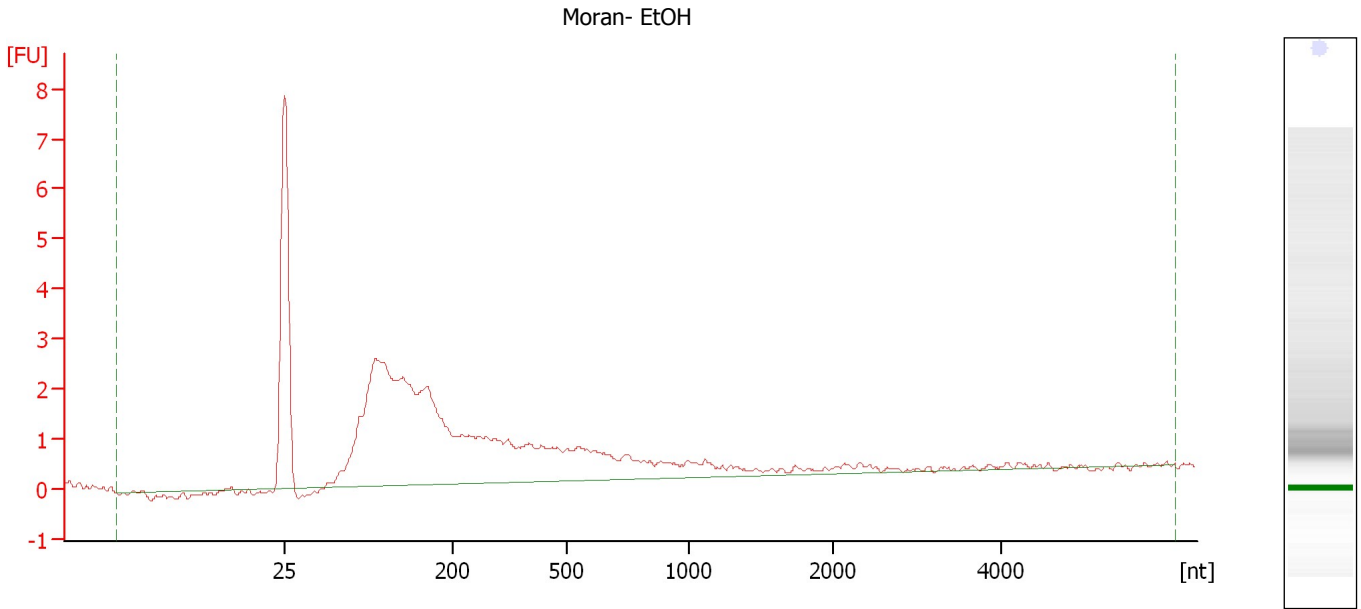
**Fragment table for sample 6 : Glob EP-25**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,423	1,632	0.4	0.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary Continued ...**



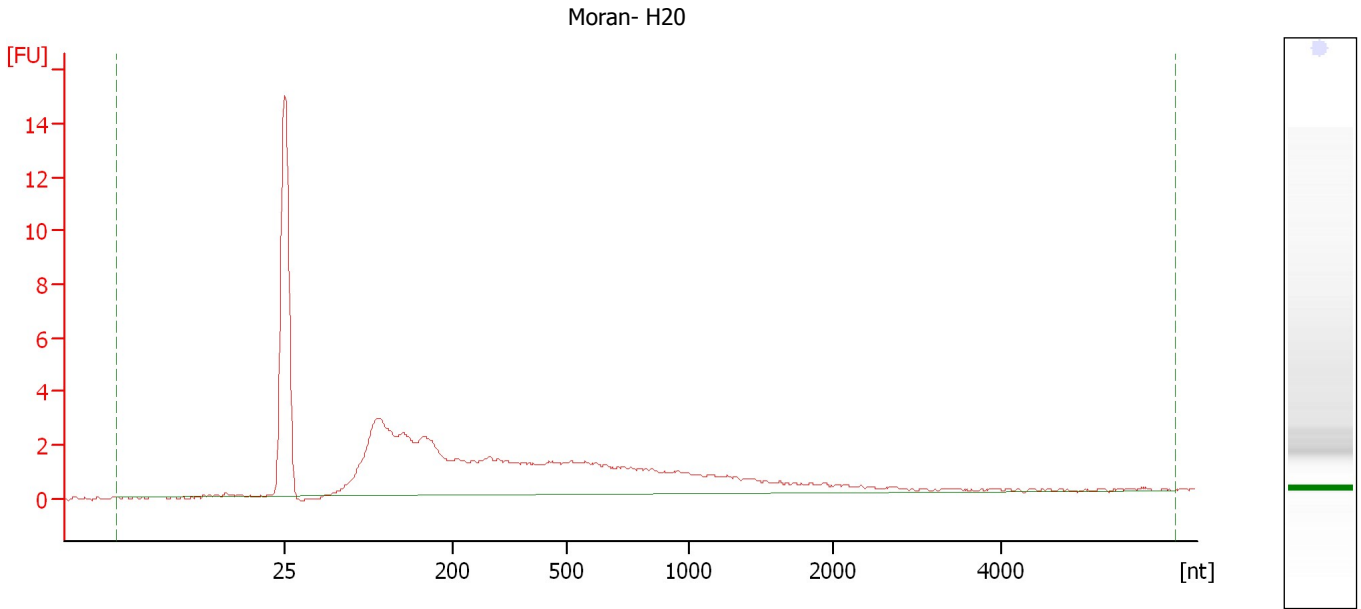
**Overall Results for sample 7 : Moran- EtOH**

RNA Area:	48.1	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	498 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\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Electropherogram Summary Continued ...**



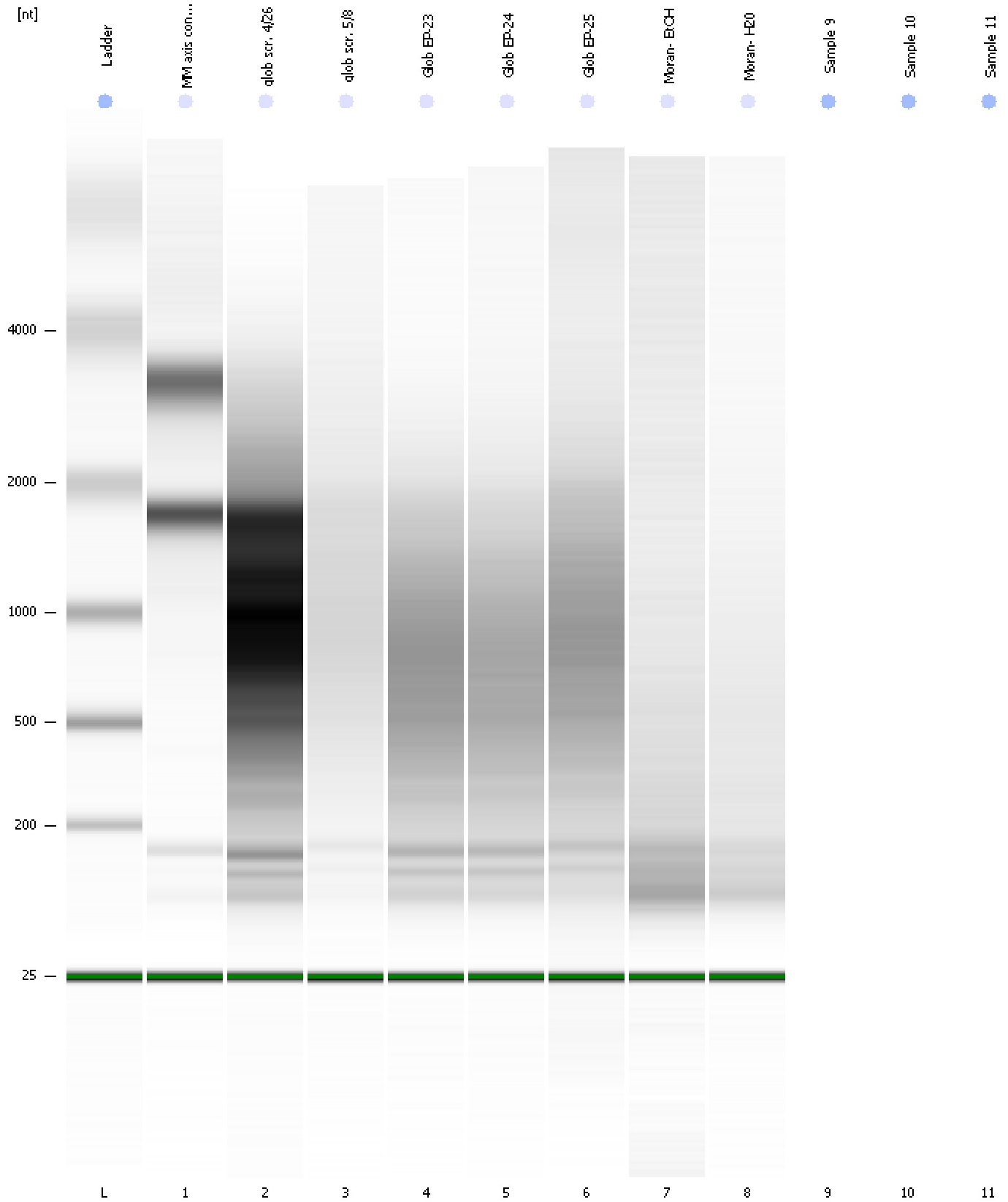
**Overall Results for sample 8 : Moran- H20**

RNA Area:	67.8	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	702 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: 1.80

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
Modified: 5/21/2013 12:21:36 PM

**Invalid Samples**

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\2013-05-21\2013-05-21\_002.xad

Created: 5/21/2013 12:02:56 PM  
 Modified: 5/21/2013 12:21:36 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		5/21/2013 12:21:34 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-21\2013-05-21_002.xad)		Instrument	Run		5/21/2013 12:03:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/21/2013 12:03:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/21/2013 12:03:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/21/2013 12:03:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/21/2013 12:03:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/21/2013 12:03:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/21/2013 12:03:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1