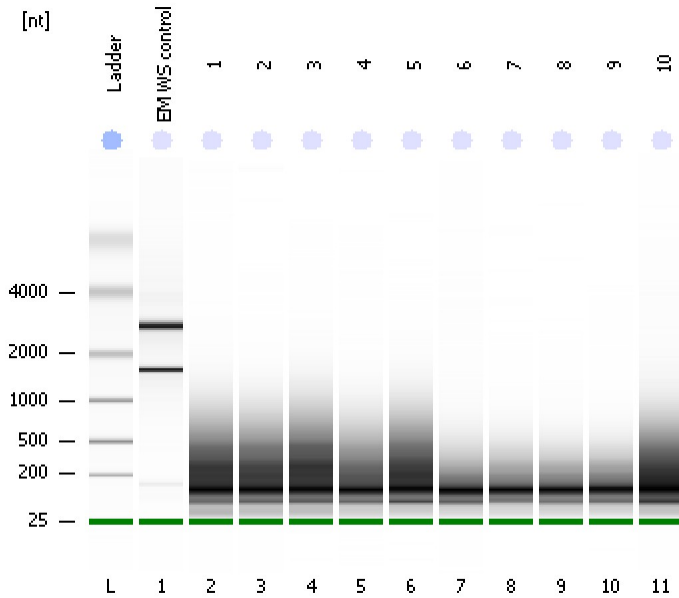


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

### Electrophoresis File Run Summary



#### Instrument Information:

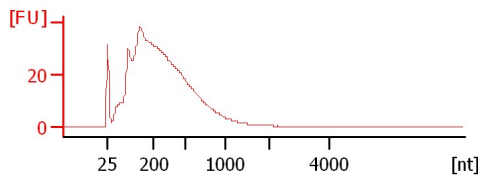
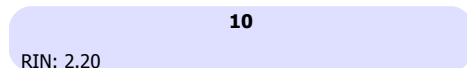
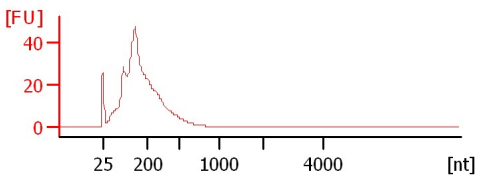
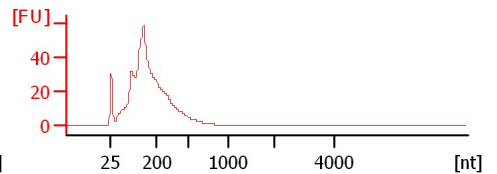
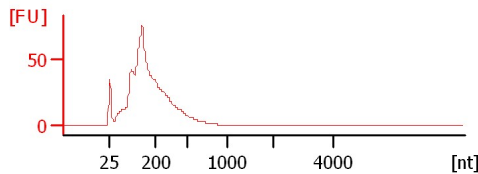
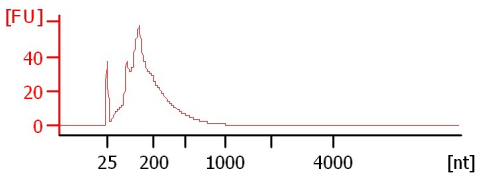
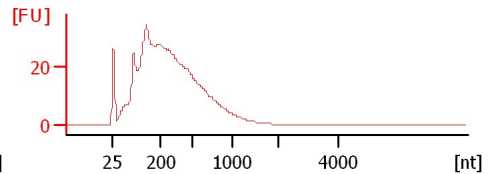
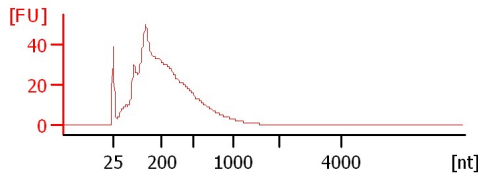
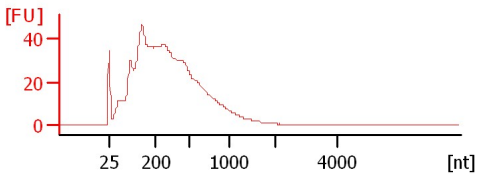
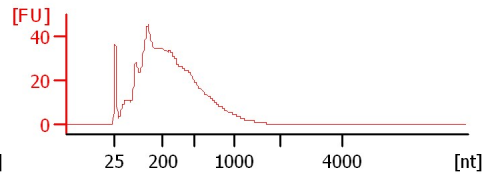
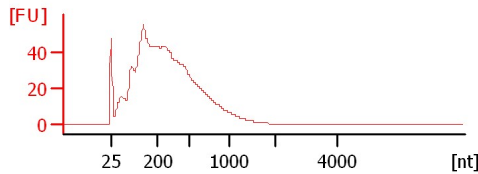
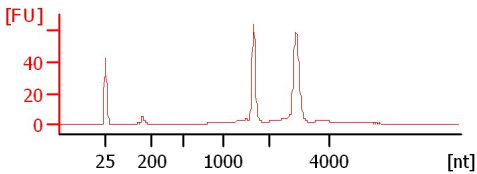
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
EM WS control		✓	RIN: 9.80	
1		✓	RIN: 2.20	
2		✓	RIN: 2.20	
3		✓	RIN: 2.10	
4		✓	RIN: 2.20	
5		✓	RIN: 2.10	
6		✓	RIN: 2.40	
7		✓	RIN: 2.40	
8		✓	RIN: 2.40	
9		✓	RIN: 2.40	
10		✓	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\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 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/μl] : 1000  
Lower Marker Concentration [pg/μl] : 0  
Upper Marker Concentration [pg/μl] : 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

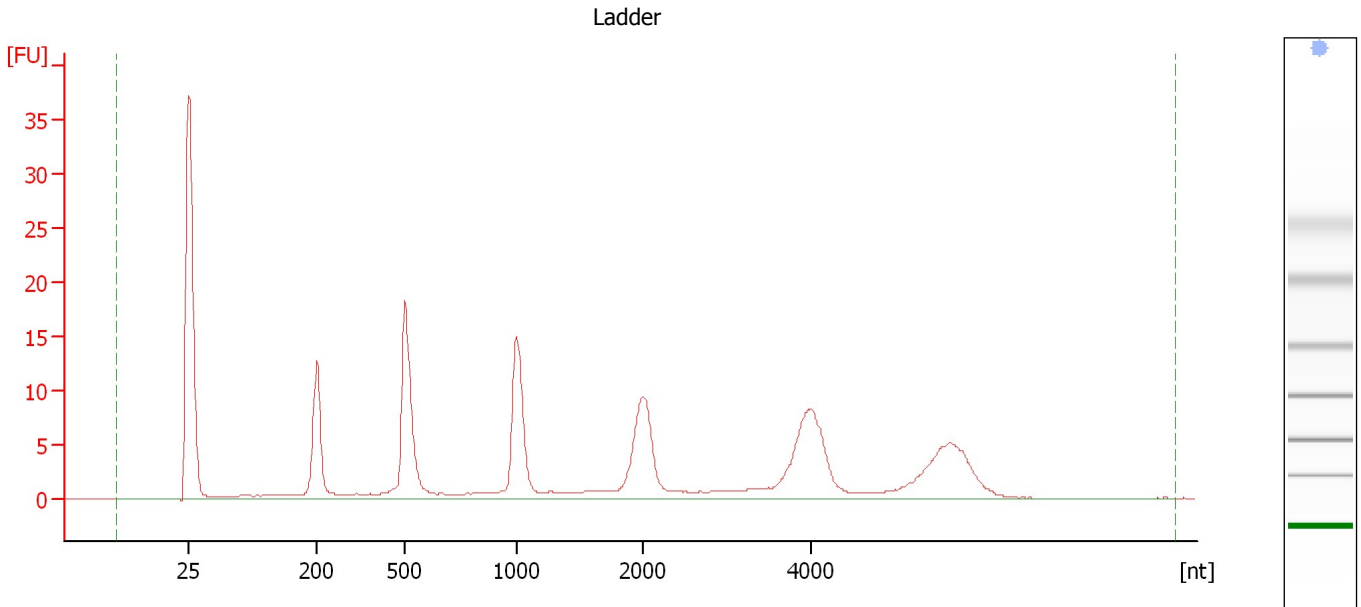
**Ladder**

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\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary**



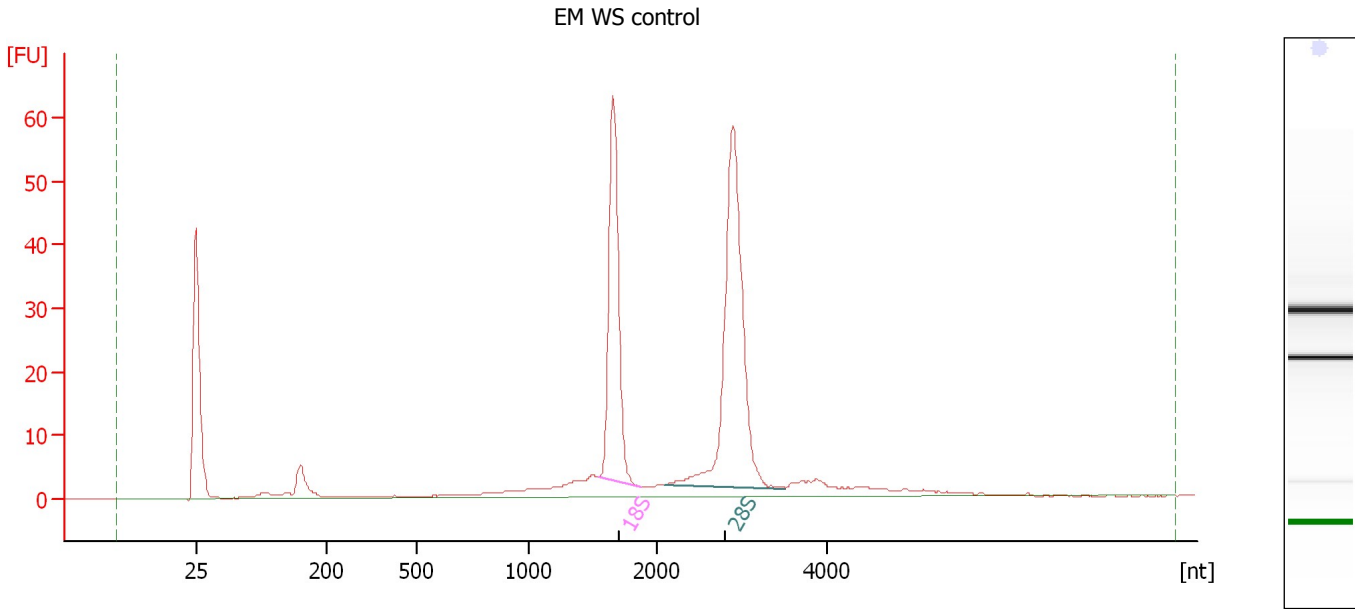
**Overall Results for Ladder**

RNA Area:	170.9	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\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 289.2                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 1,692 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN: 9.80

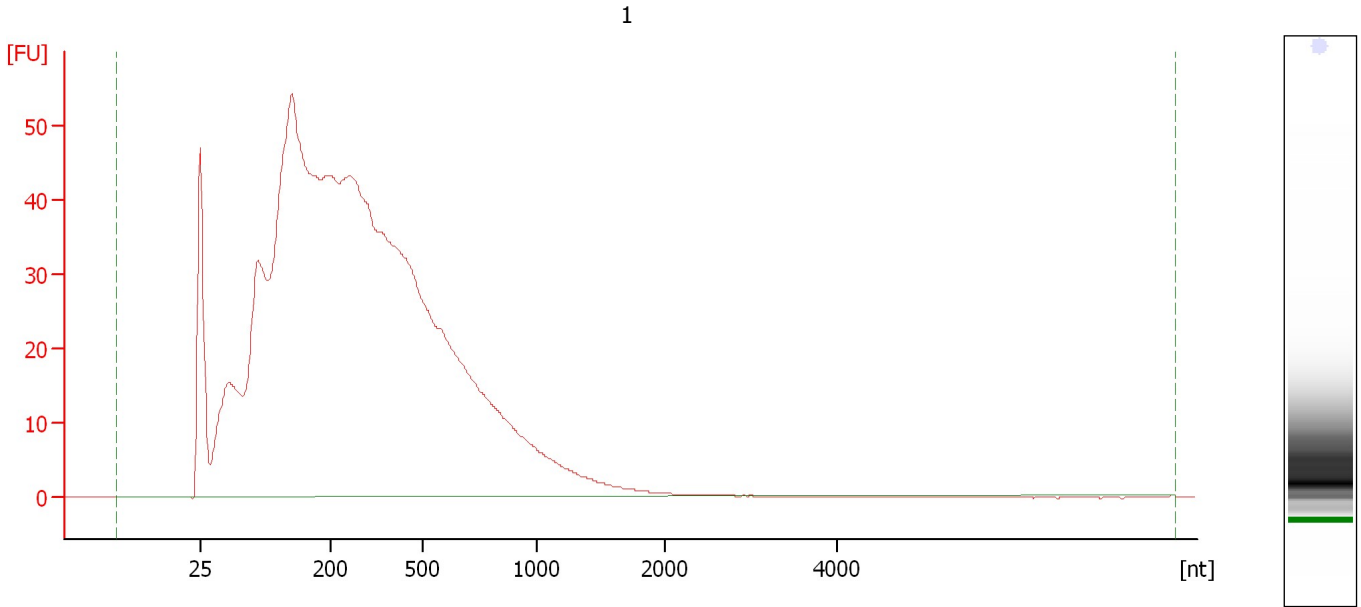
**Fragment table for sample 1 : EM WS control**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,545	1,878	72.6	25.1
28S	2,093	3,511	112.8	39.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1**

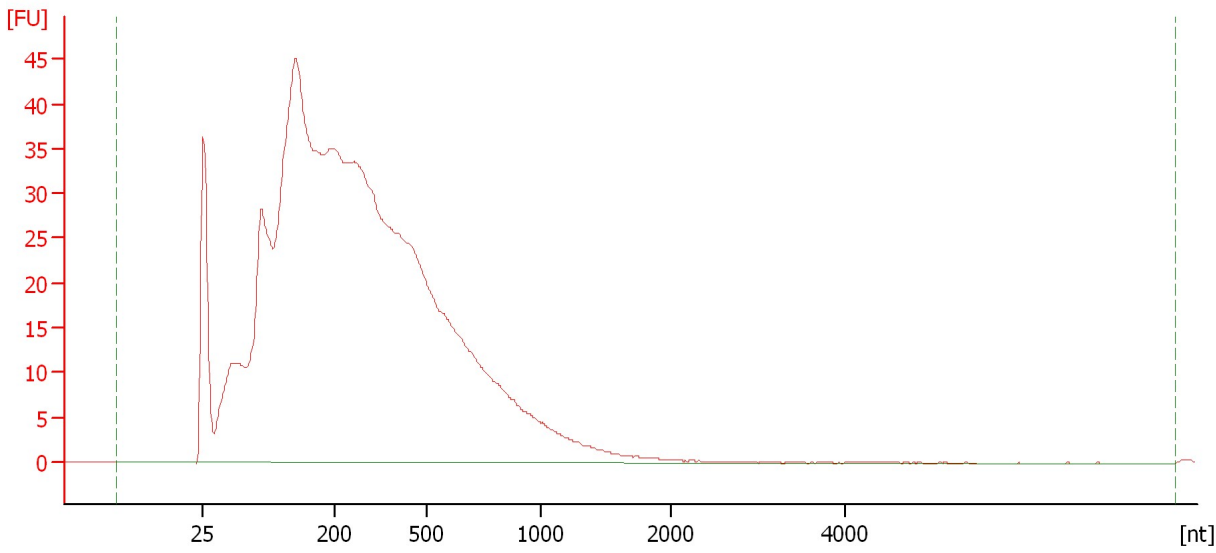
RNA Area:	1,405.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	8,220 pg/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**

2



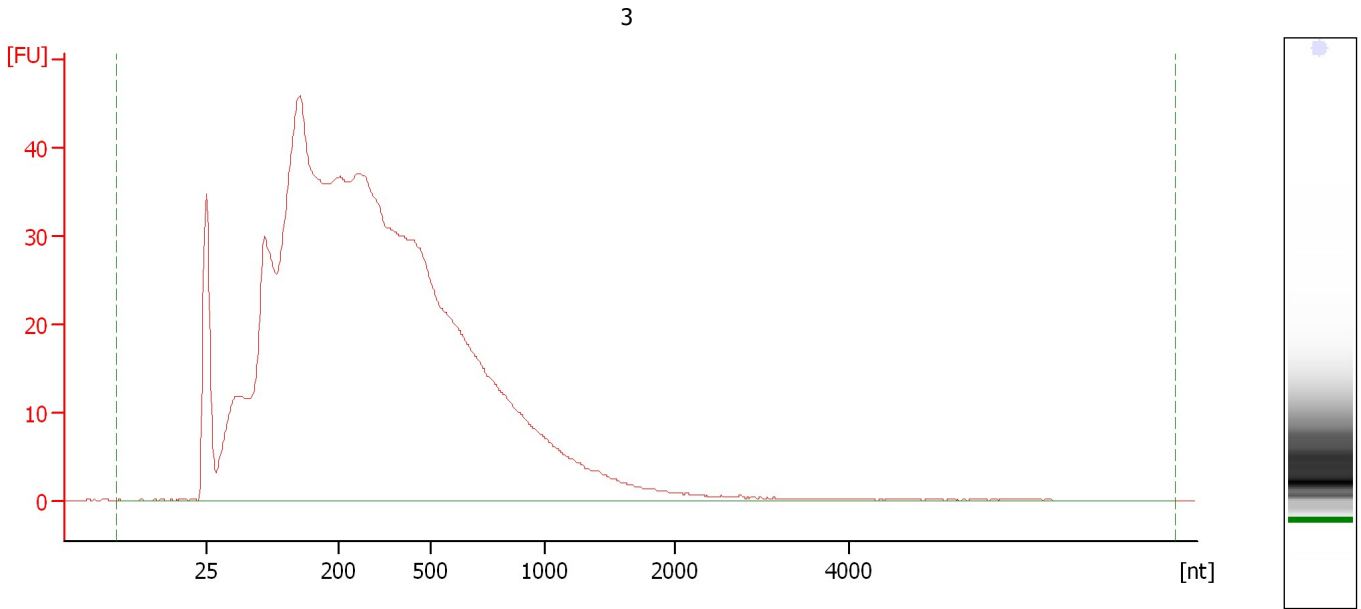
**Overall Results for sample 3 : 2**

RNA Area:	1,089.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	6,373 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\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 3**

RNA Area:	1,252.5	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	7,328 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: 2.10

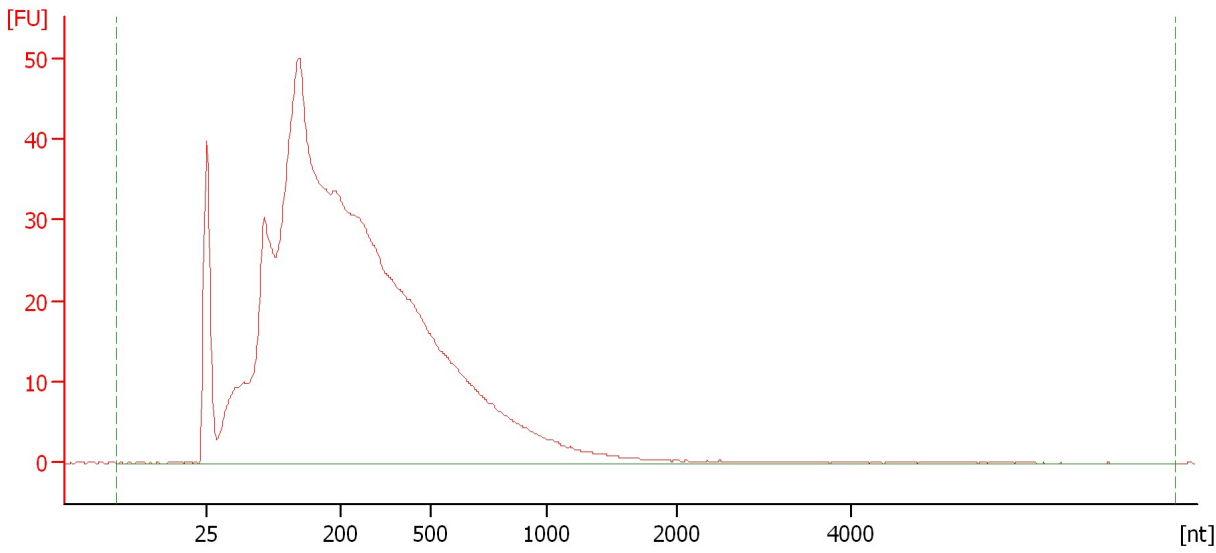


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**

4



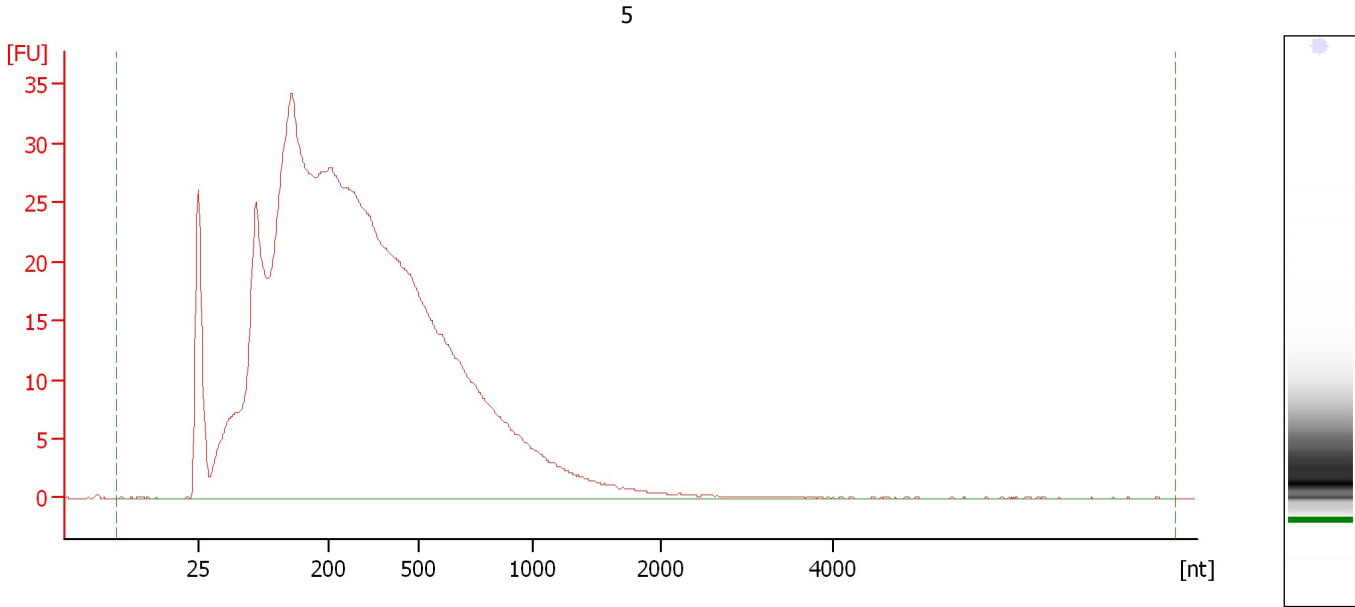
**Overall Results for sample 5 : 4**

RNA Area:	1,008.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	5,898 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\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 5**

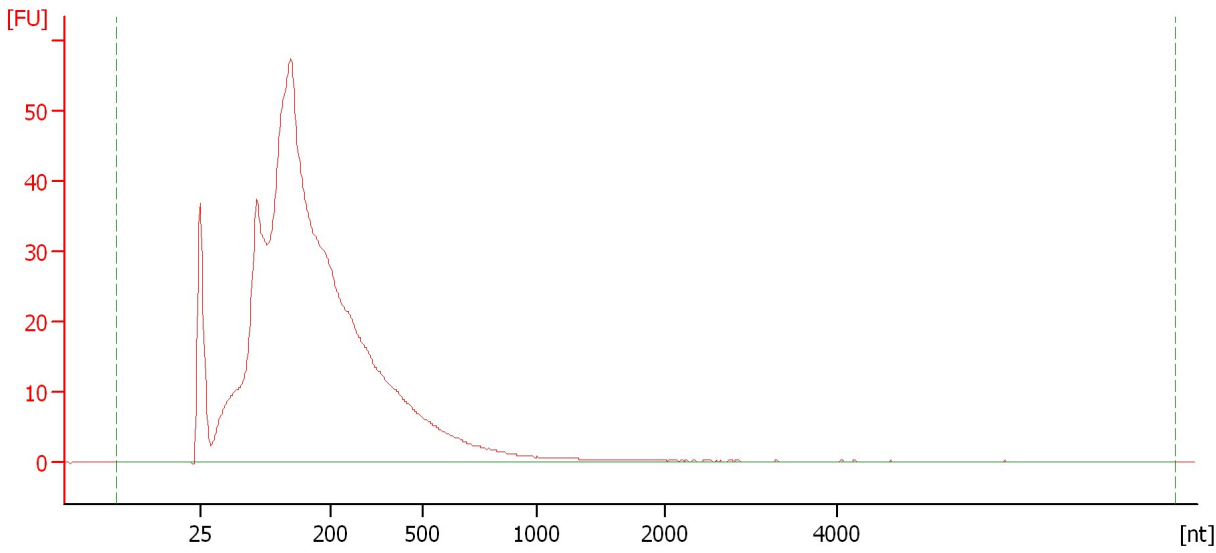
RNA Area:	882.5	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	5,163 pg/ $\mu$ l	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**

6



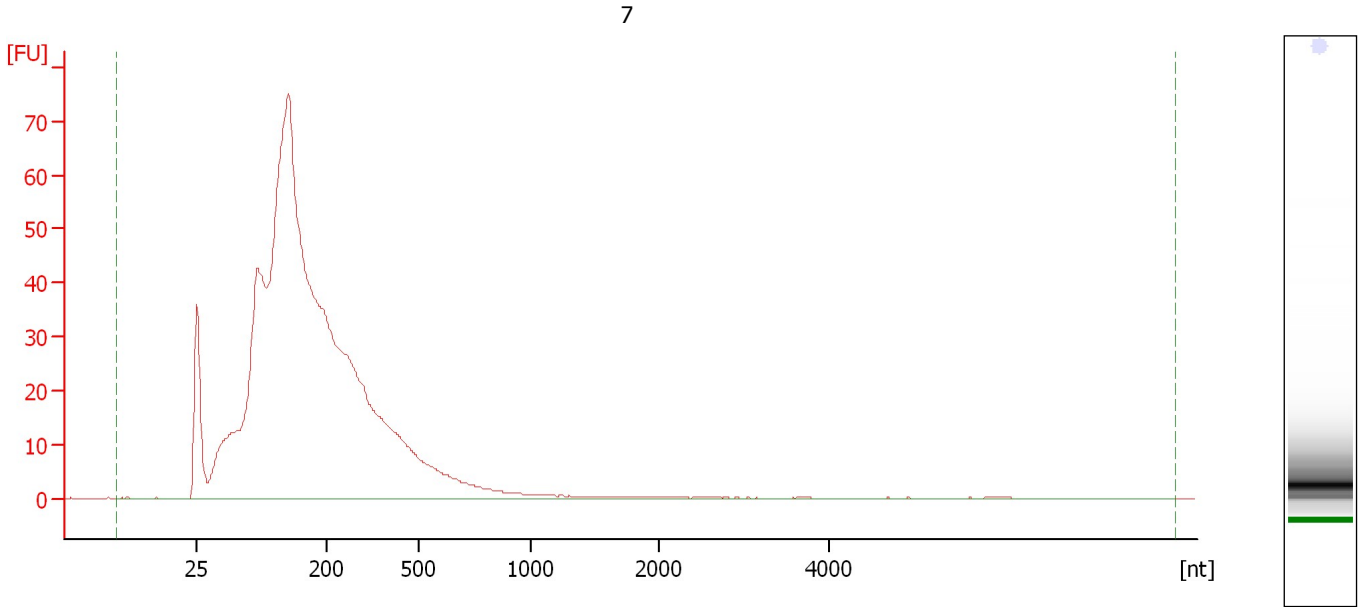
**Overall Results for sample 7 : 6**

RNA Area:	840.0	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	4,914 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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 7**

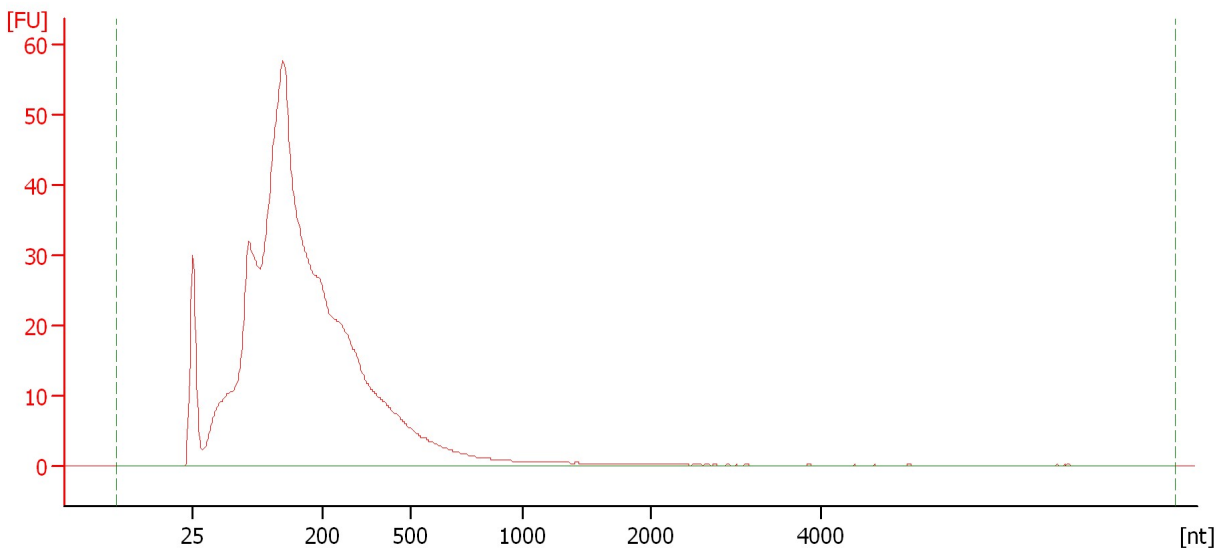
RNA Area:	1,011.9	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	5,920 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**

8



**Overall Results for sample 9 : 8**

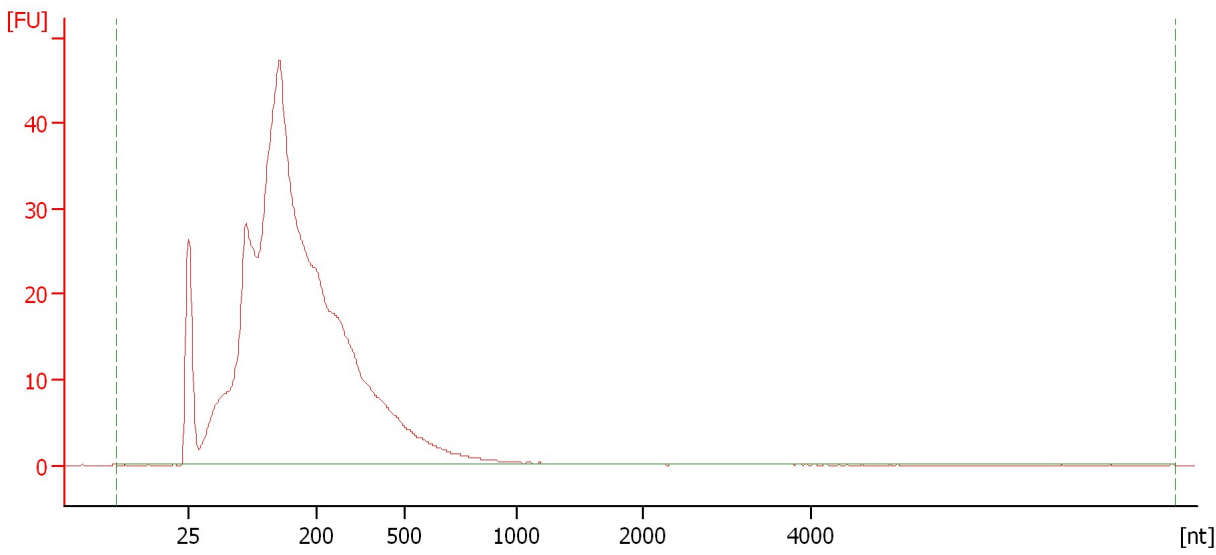
RNA Area:	779.5	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	4,561 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**

9



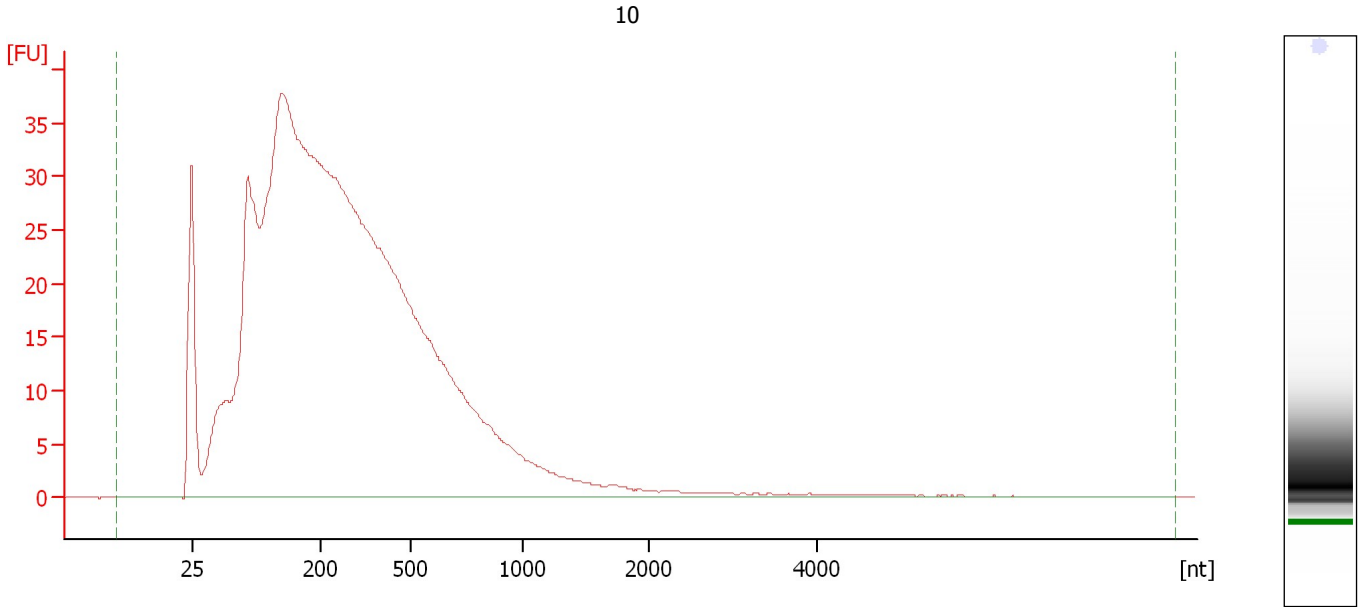
**Overall Results for sample 10 : 9**

RNA Area:	650.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	3,805 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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Electropherogram Summary Continued ...**



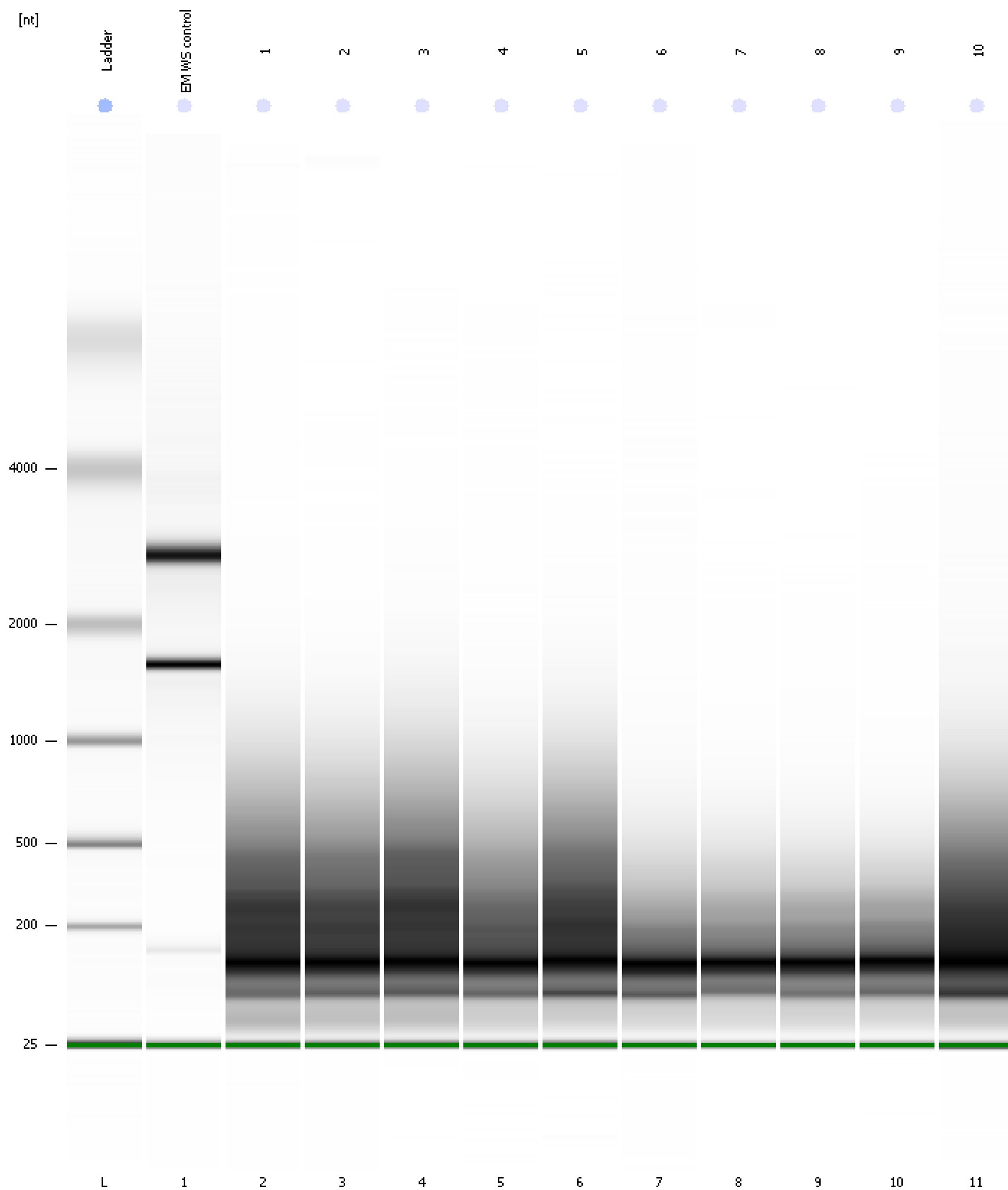
**Overall Results for sample 11 : 10**

RNA Area:	998.7	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	5,843 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\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
Modified: 3/6/2013 4:02:09 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06\_003.xad

Created: 3/6/2013 3:39:14 PM  
 Modified: 3/6/2013 4:02:09 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		3/6/2013 4:02:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-06\2013-03-06_003.xad)		Instrument	Run		3/6/2013 3:39:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/6/2013 3:39:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/6/2013 3:39:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/6/2013 3:39:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/6/2013 3:39:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/6/2013 3:39:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/6/2013 3:39:19 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1