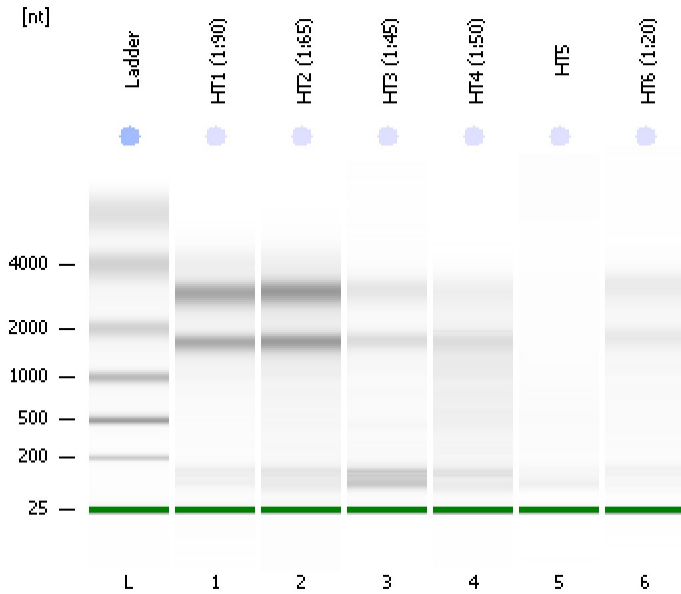


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
Modified: 8/18/2016 4:04:32 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

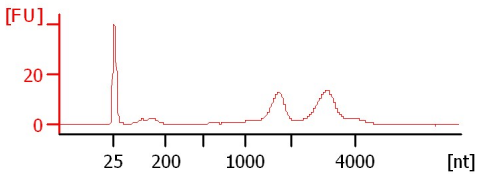
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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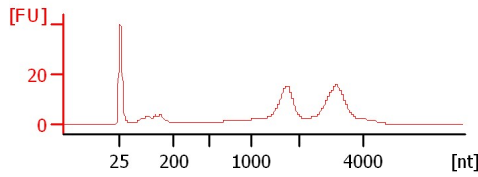
Chip Information:

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

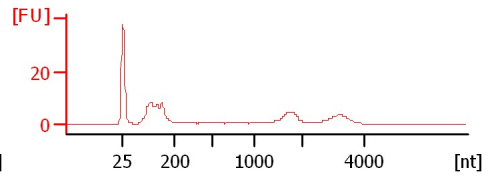
**HT1 (1:90)**  
RIN: 9.60



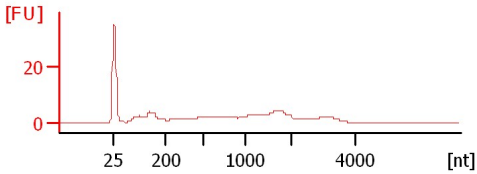
**HT2 (1:65)**  
RIN: 9.60



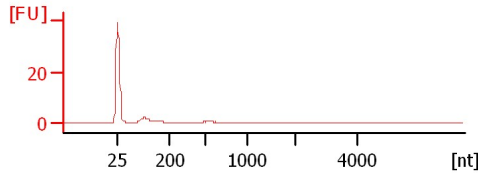
**HT3 (1:45)**  
RIN: 7.40



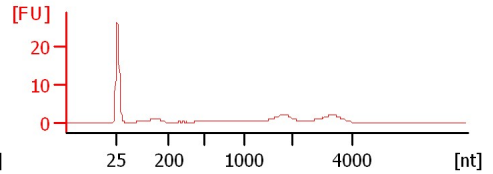
**HT4 (1:50)**  
RIN: 4.10



**HT5**  
RIN: 1



**HT6 (1:20)**  
RIN: 6.90



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
 Modified: 8/18/2016 4:04:32 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
HT1 (1:90)		✓	RIN: 9.60	
HT2 (1:65)		✓	RIN: 9.60	
HT3 (1:45)		✓	RIN: 7.40	
HT4 (1:50)		✓	RIN: 4.10	
HT5		✓	RIN:1	
HT6 (1:20)		✓	RIN: 6.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
Modified: 8/18/2016 4:04:32 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

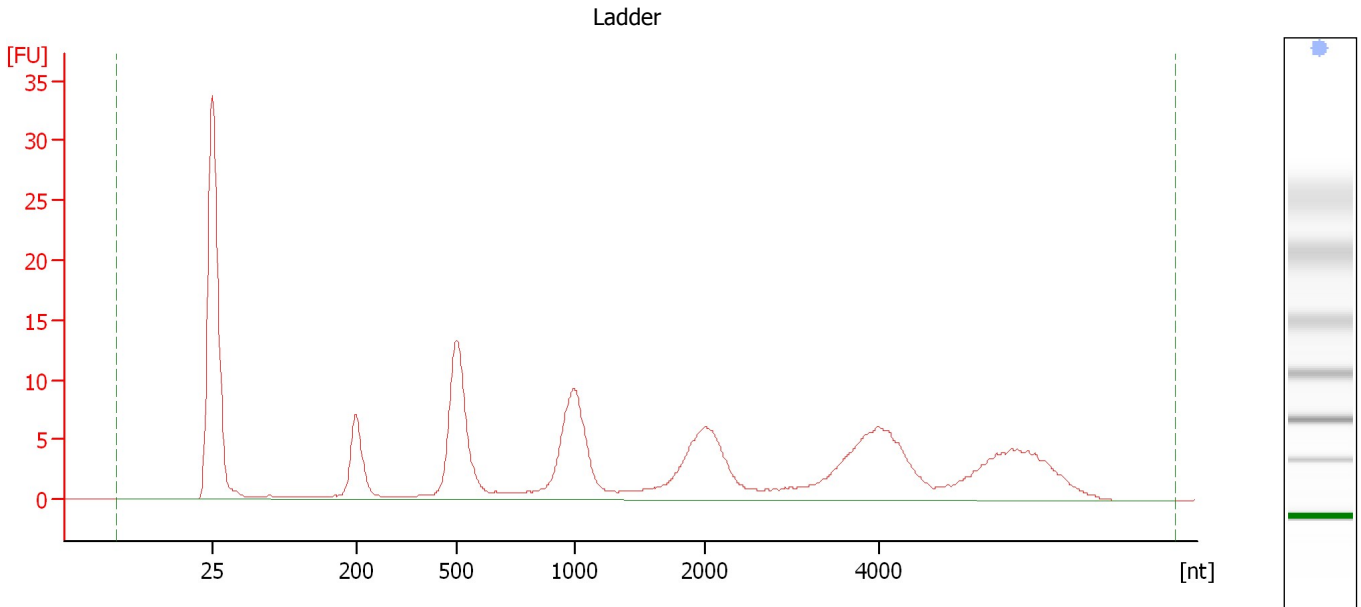
### Ladder

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
Modified: 8/18/2016 4:04:32 PM

**Electropherogram Summary**



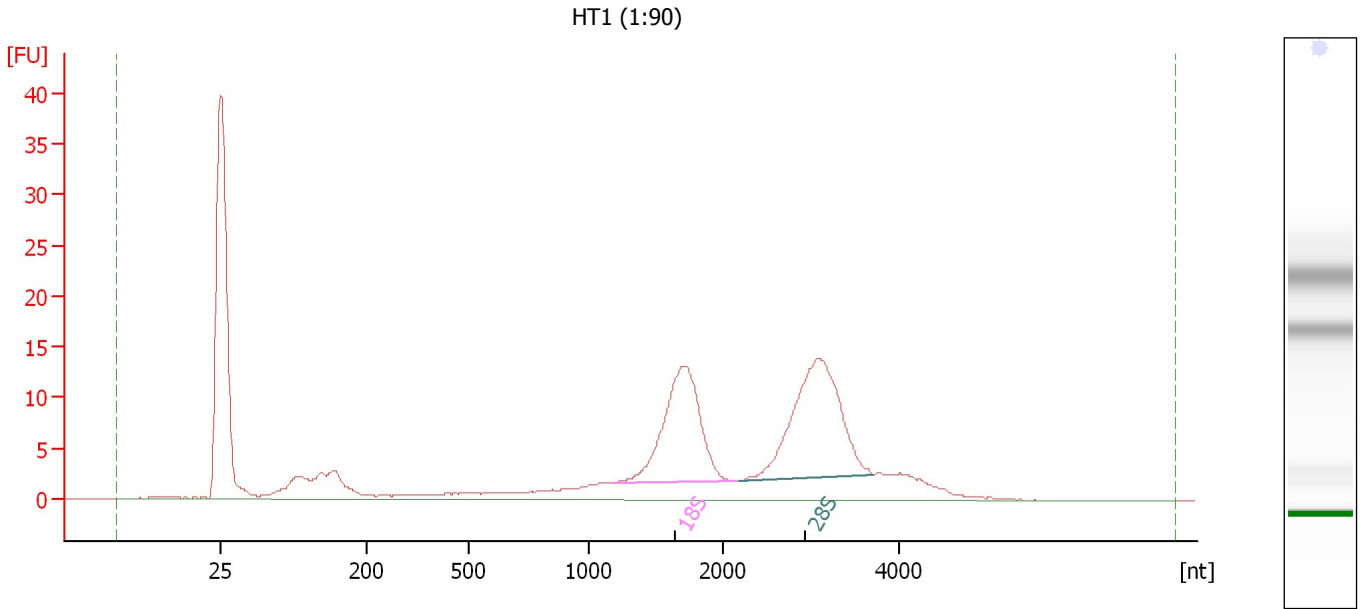
**Overall Results for Ladder**

RNA Area:	201.6	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:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
Modified: 8/18/2016 4:04:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HT1 (1:90)**

RNA Area:	220.0	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	1,091 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: 9.60

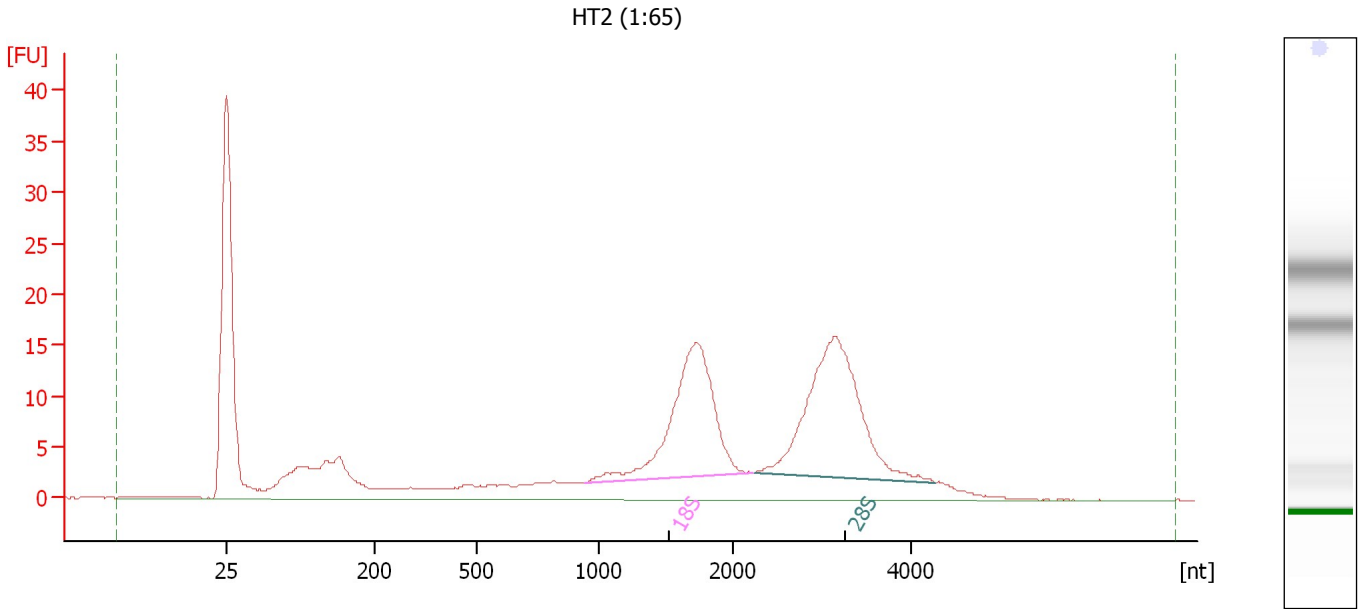
**Fragment table for sample 1 : HT1 (1:90)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,186	2,173	49.5	22.5
28S	2,197	3,715	57.9	26.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
 Modified: 8/18/2016 4:04:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HT2 (1:65)**

RNA Area:	295.2	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	1,464 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]:	1.1	Result Flagging Label:	RIN: 9.60

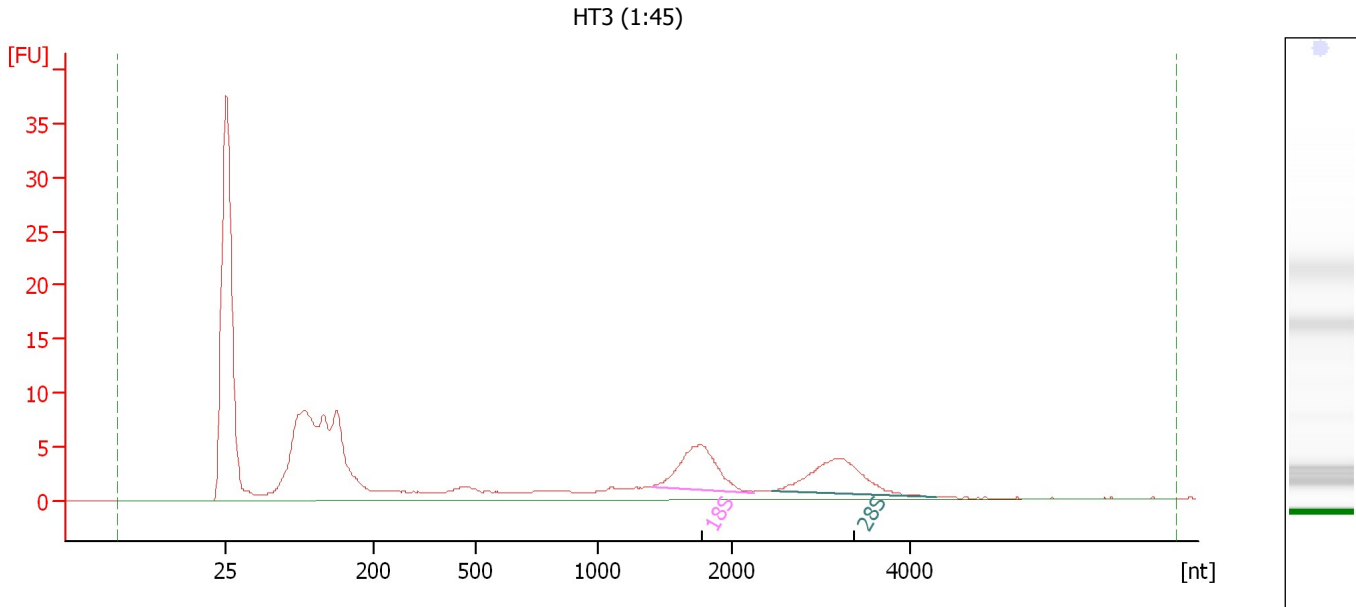
**Fragment table for sample 2 : HT2 (1:65)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	946	2,221	64.5	21.8
28S	2,245	4,277	73.0	24.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
Modified: 8/18/2016 4:04:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HT3 (1:45)**

RNA Area:	164.2	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	814 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]:	1.0	Result Flagging Label:	RIN: 7.40

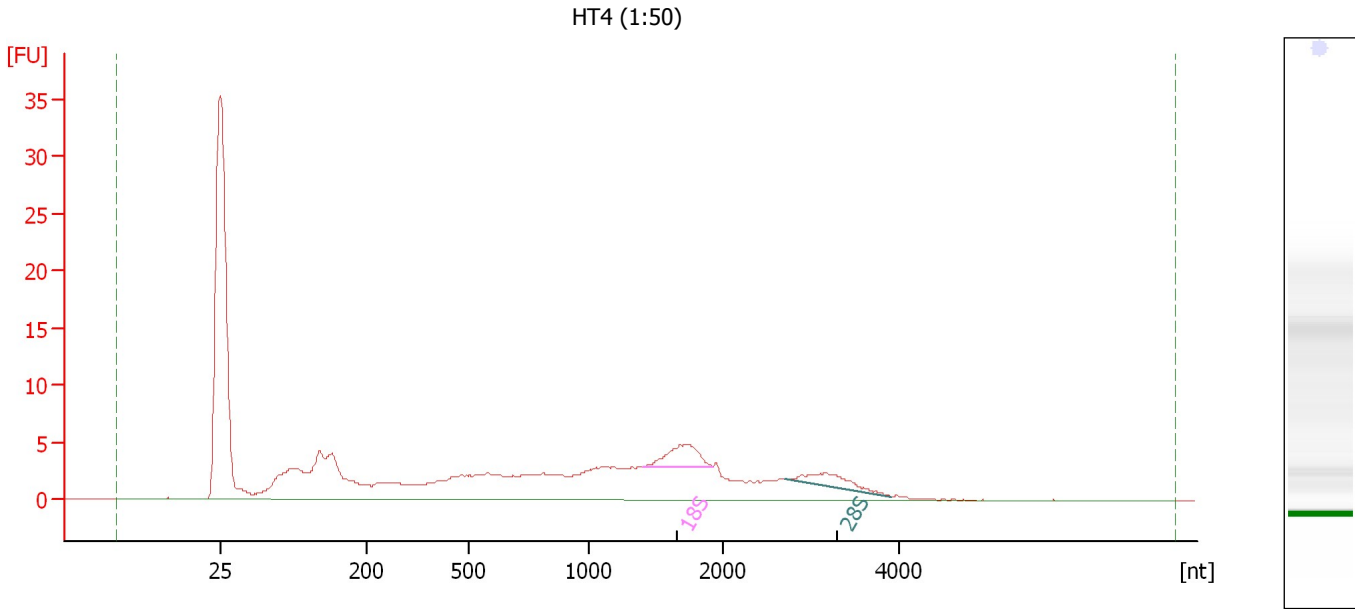
**Fragment table for sample 3 : HT3 (1:45)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,408	2,246	17.4	10.6
28S	2,450	4,305	17.7	10.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
 Modified: 8/18/2016 4:04:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : HT4 (1:50)**

RNA Area:	169.9	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	843 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]:	0.8	Result Flagging Label:	RIN: 4.10

**Fragment table for sample 4 : HT4 (1:50)**

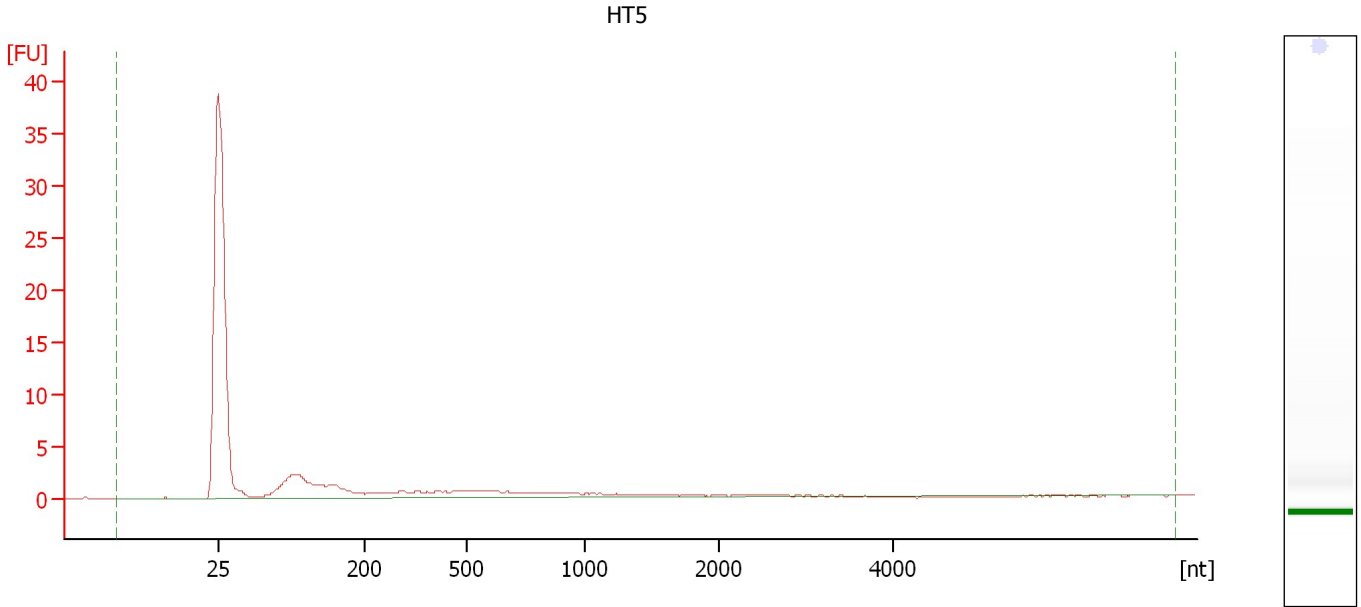
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,410	1,930	7.3	4.3
28S	2,707	3,922	5.6	3.3



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
Modified: 8/18/2016 4:04:32 PM

**Electropherogram Summary Continued ...**



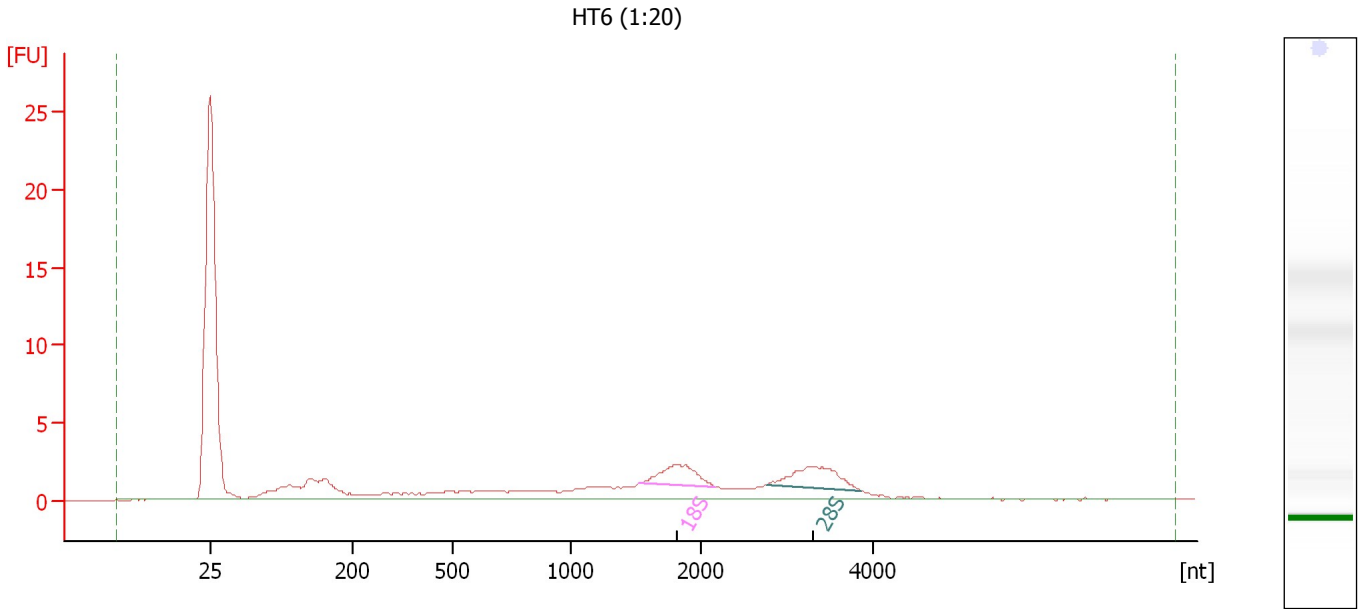
**Overall Results for sample 5 : HT5**

RNA Area:	39.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	194 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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
Modified: 8/18/2016 4:04:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HT6 (1:20)**

RNA Area: 63.2                      RNA Integrity Number (RIN): 6.9 (B.02.08)  
RNA Concentration: 314 µg/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2                      Result Flagging Label: RIN: 6.90

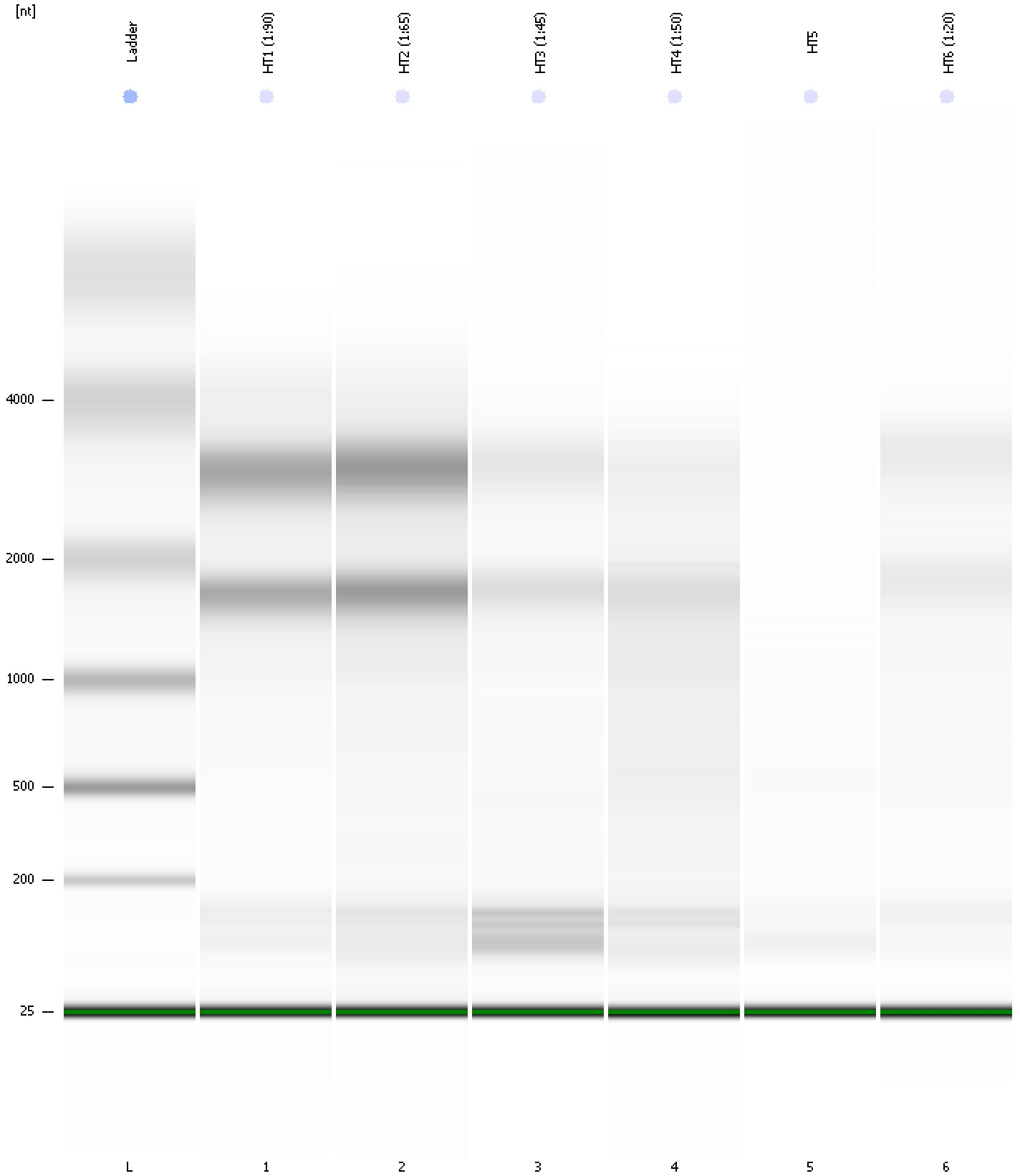
**Fragment table for sample 6 : HT6 (1:20)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,517	2,147	5.5	8.7
28S	2,755	3,846	6.4	10.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
Modified: 8/18/2016 4:04:32 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...\2100 expert\data\2016-08-18\2016-08-18\_004\_RNAQC\_HT1-6.xad

Created: 8/18/2016 3:32:31 PM  
 Modified: 8/18/2016 4:04:32 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		8/18/2016 3:55:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-18\2016-08-18_004.xad)		Instrument	Run		8/18/2016 3:32:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/18/2016 3:32:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/18/2016 3:32:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/18/2016 3:32:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/18/2016 3:32:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/18/2016 3:32:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/18/2016 3:32:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1