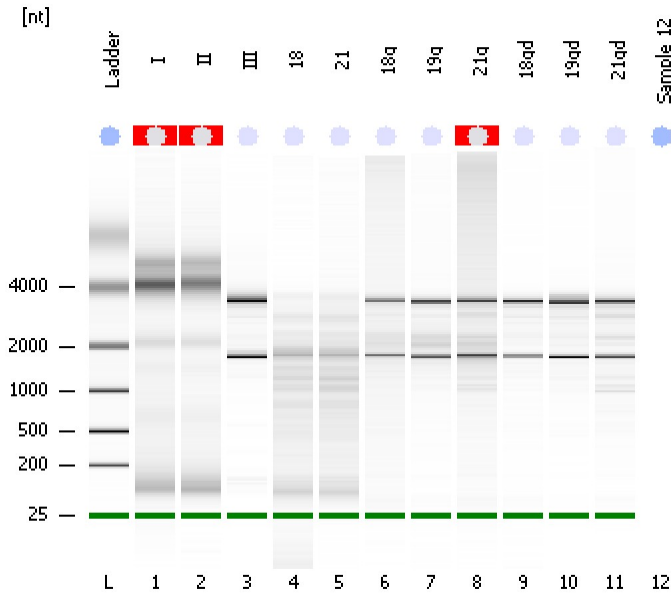


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

Electrophoresis File Run Summary



Instrument Information:

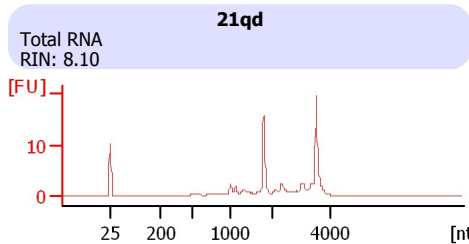
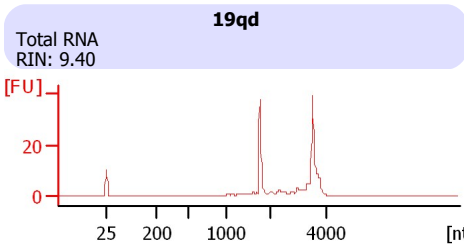
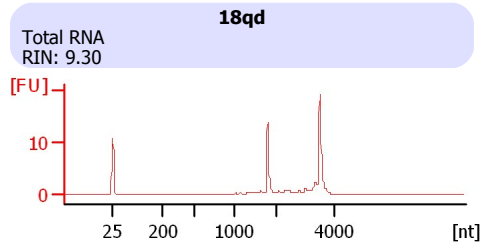
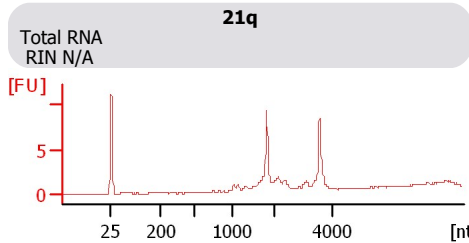
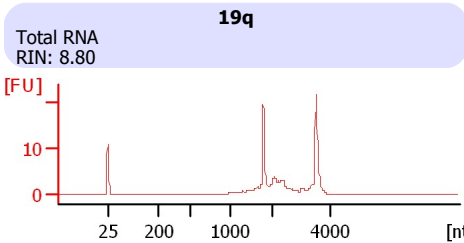
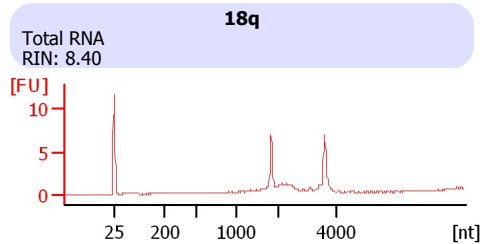
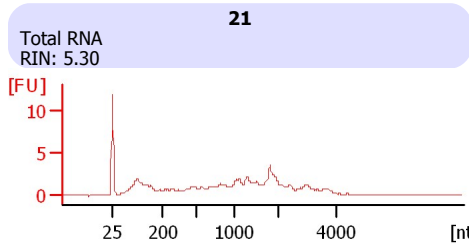
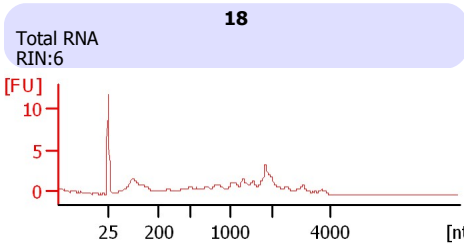
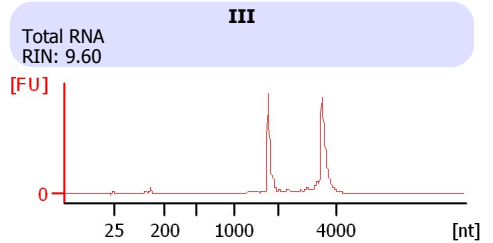
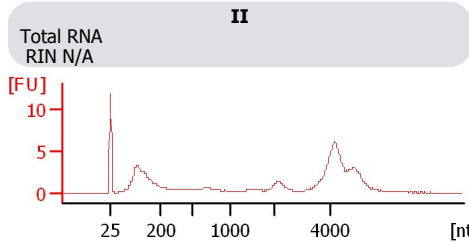
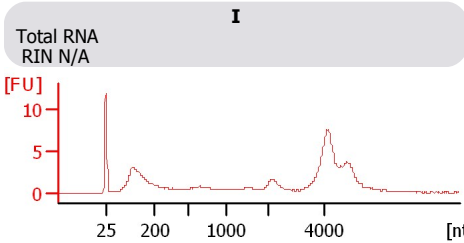
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy  
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
I	Total RNA	✓	RIN N/A	
II	Total RNA	✓	RIN N/A	
III	Total RNA	✓	RIN: 9.60	
18	Total RNA	✓	RIN:6	
21	Total RNA	✓	RIN: 5.30	
18q	Total RNA	✓	RIN: 8.40	
19q	Total RNA	✓	RIN: 8.80	
21q	Total RNA	✓	RIN N/A	
18qd	Total RNA	✓	RIN: 9.30	
19qd	Total RNA	✓	RIN: 9.40	
21qd	Total RNA	✓	RIN: 8.10	
Sample 12				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
Ladder Concentration [ng/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

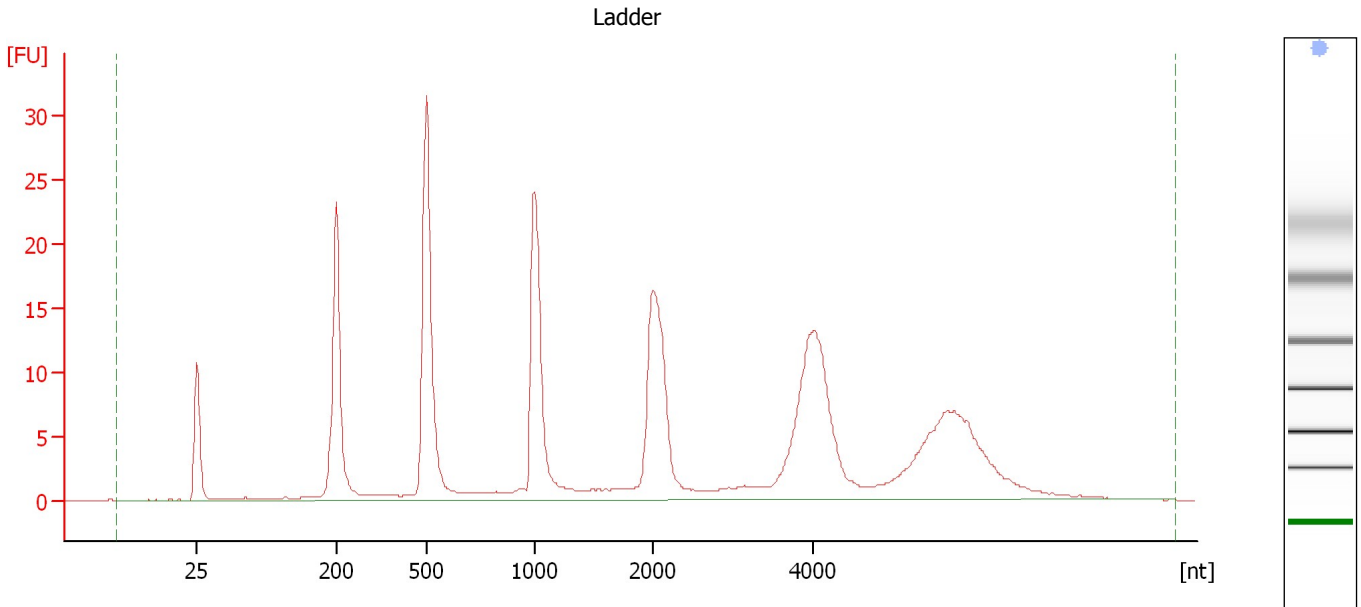
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary**



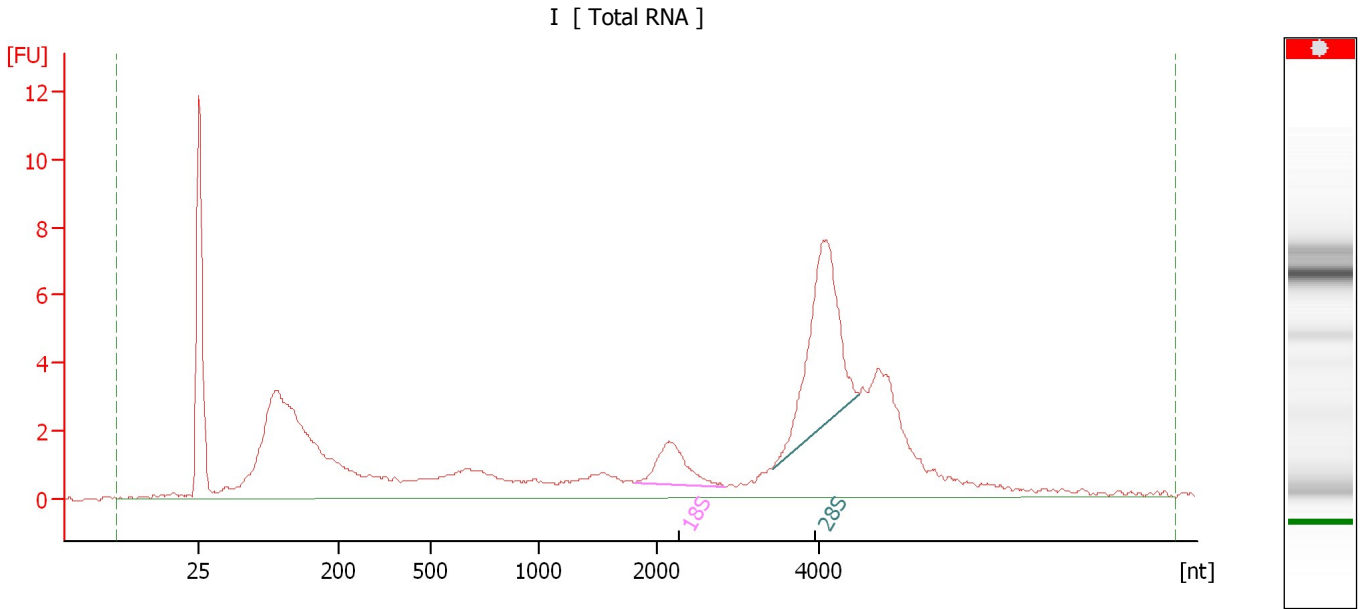
**Overall Results for Ladder**

RNA Area:	266.5	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : I**

RNA Area:	115.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	65 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	3.7	Result Flagging Label:	RIN N/A

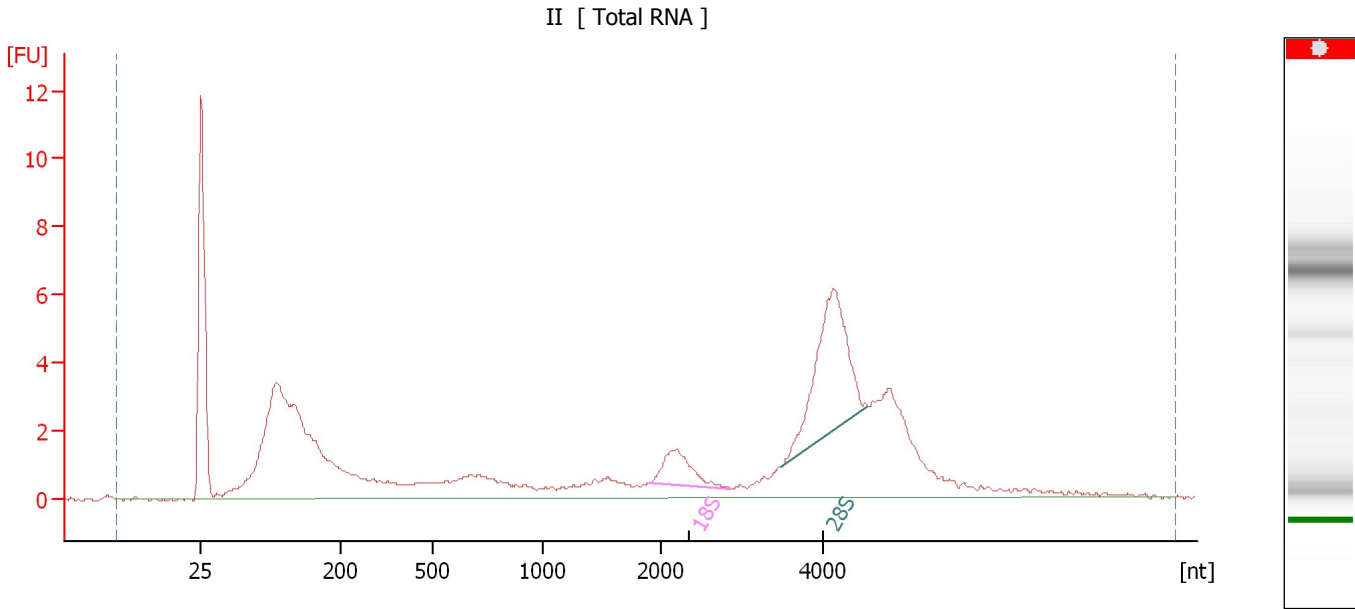
**Fragment table for sample 1 : I**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,804	2,838	4.5	3.9
28S	3,422	4,511	16.5	14.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : II**

RNA Area:	101.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	57 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	3.8	Result Flagging Label:	RIN N/A

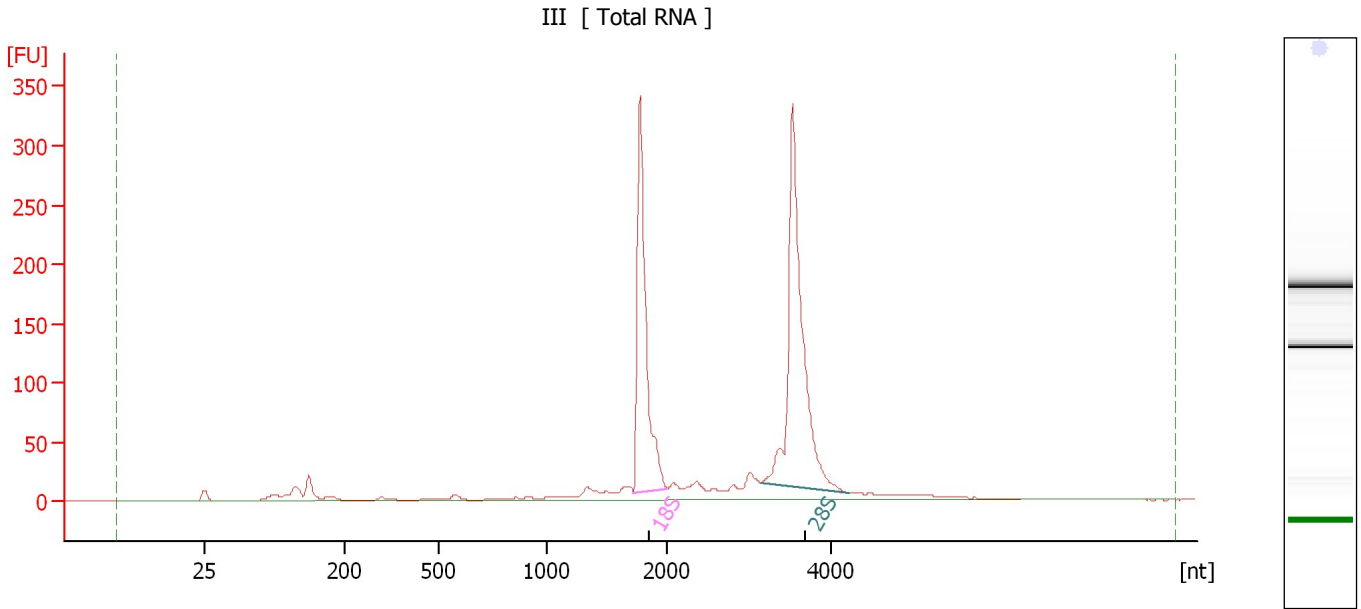
**Fragment table for sample 2 : II**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,895	2,850	3.5	3.5
28S	3,484	4,542	13.5	13.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : III**

RNA Area:	1,275.0	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	718 ng/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]:	1.3	Result Flagging Label:	RIN: 9.60

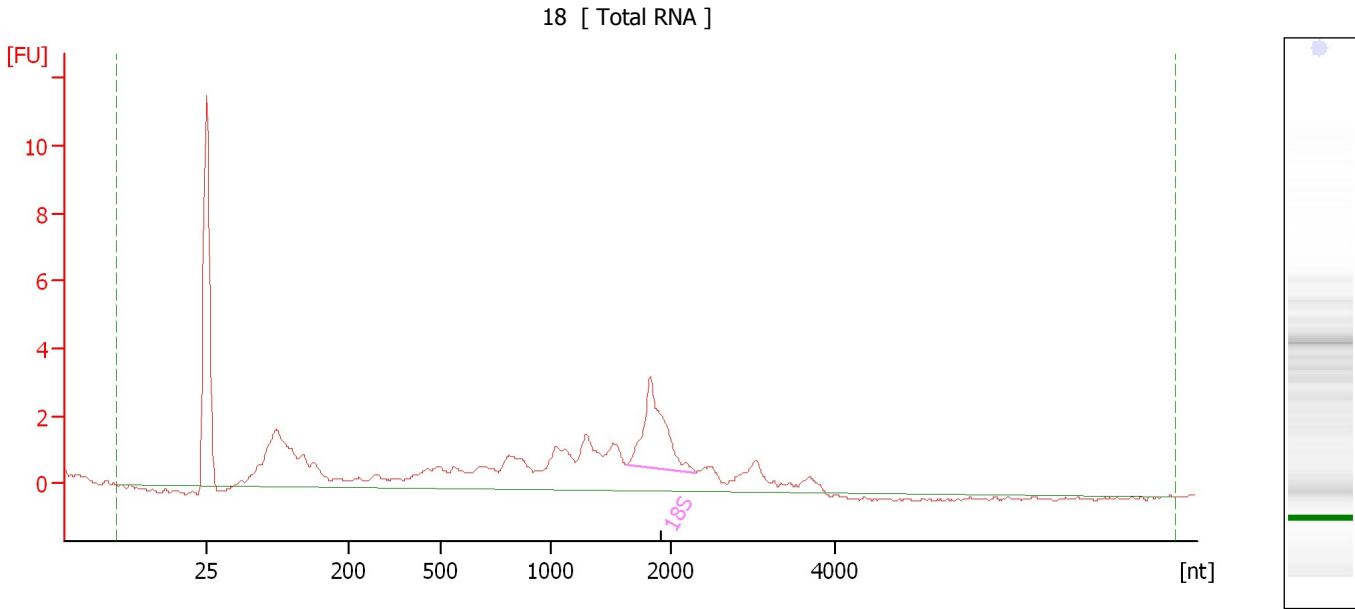
**Fragment table for sample 3 : III**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,712	1,996	350.5	27.5
28S	3,150	4,227	467.3	36.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 18**

RNA Area:	52.9	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	30 ng/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:6

**Fragment table for sample 4 : 18**

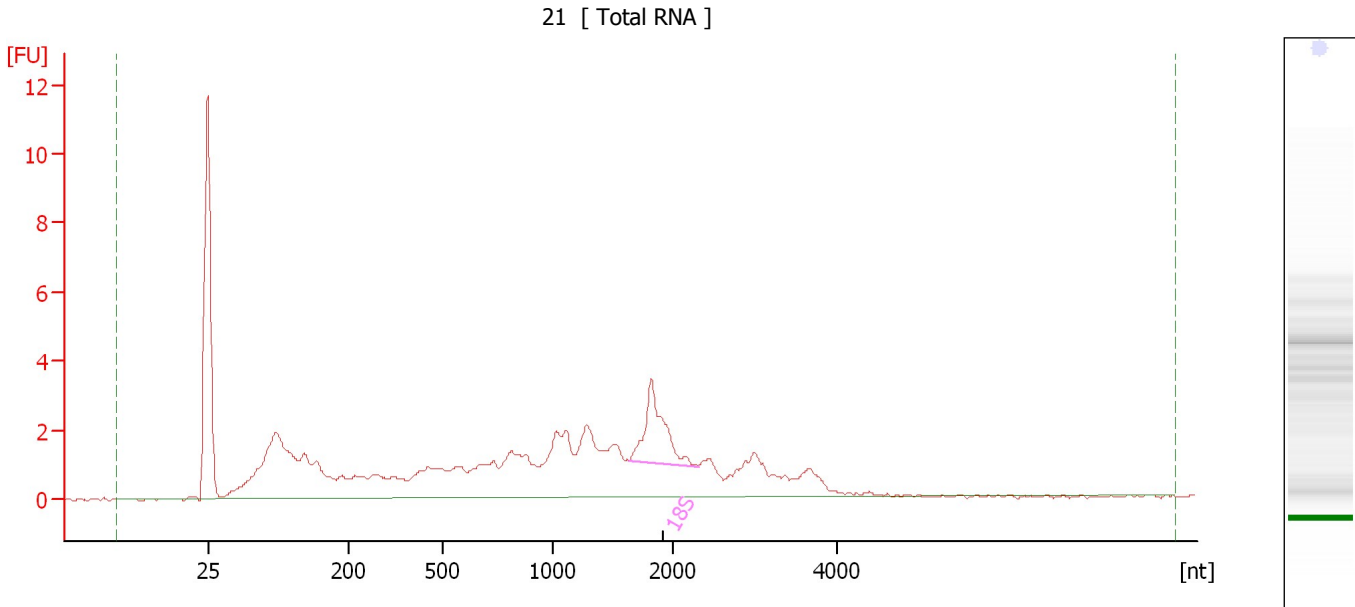
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	2,284	6.6	12.4



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 21**

RNA Area:	76.8	RNA Integrity Number (RIN):	5.3 (B.02.08)
RNA Concentration:	43 ng/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: 5.30

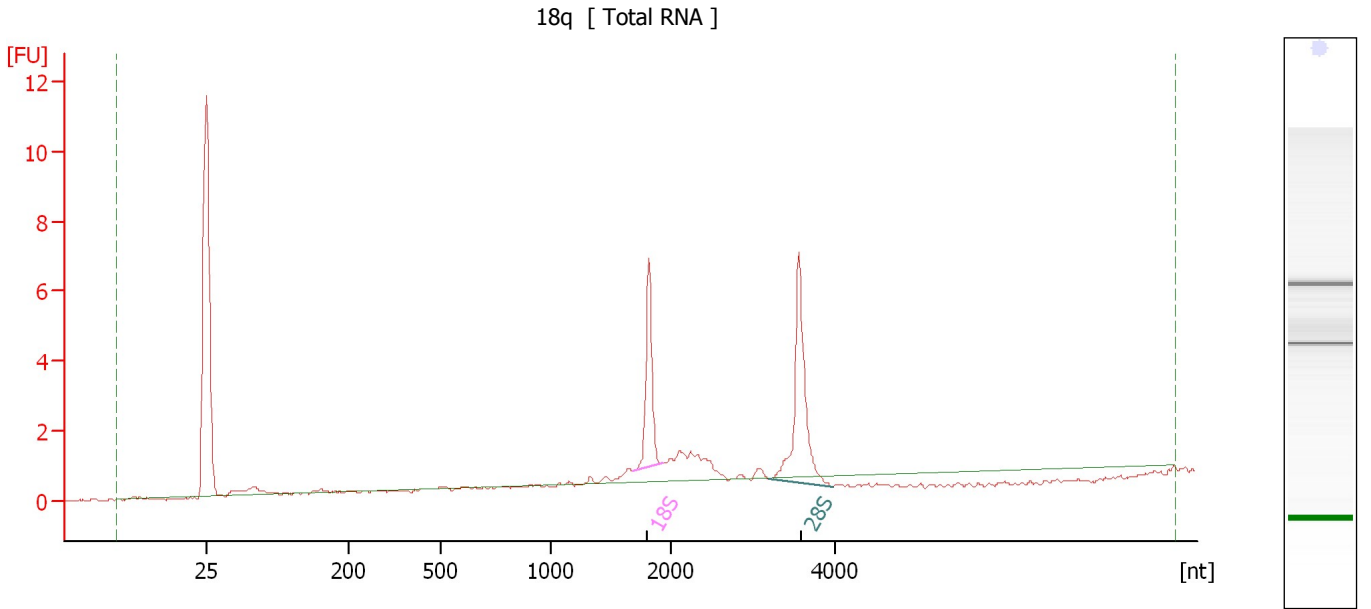
**Fragment table for sample 5 : 21**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	2,297	5.4	7.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 18q**

RNA Area: 19.1                      RNA Integrity Number (RIN): 8.4 (B.02.08)  
RNA Concentration: 11 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6              Result Flagging Label: RIN: 8.40

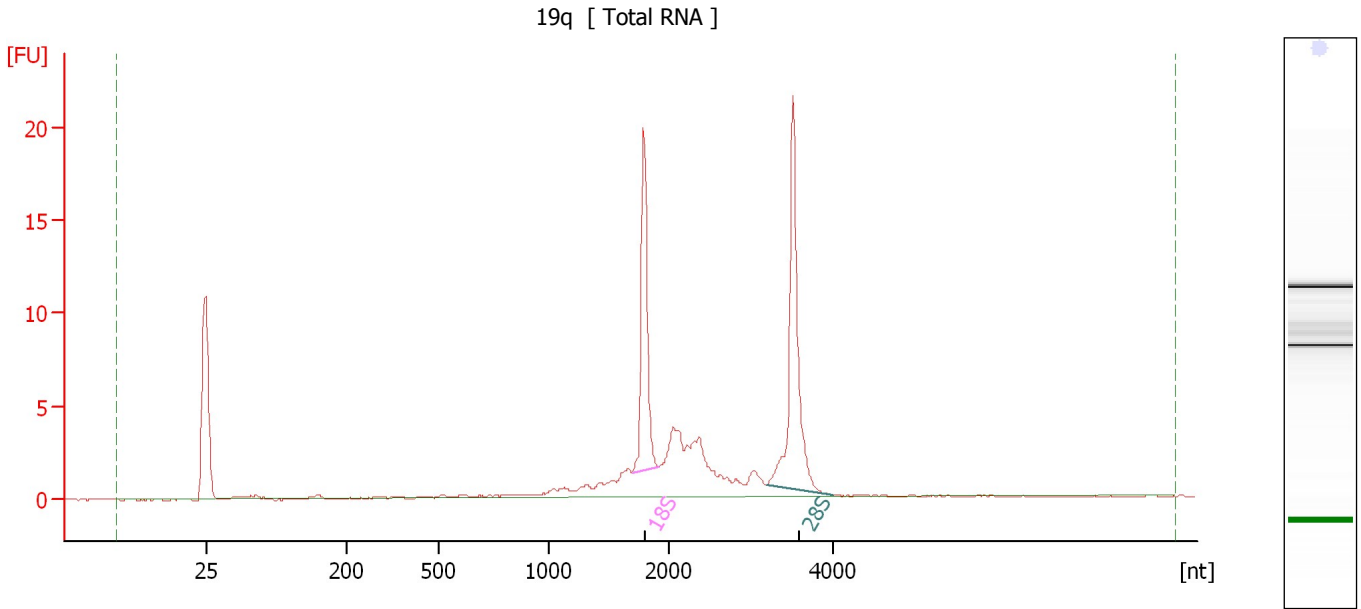
**Fragment table for sample 6 : 18q**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	1,926	4.4	23.2
28S	3,199	3,984	7.0	36.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 19q**

RNA Area: 68.6                      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 39 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5              Result Flagging Label: RIN: 8.80

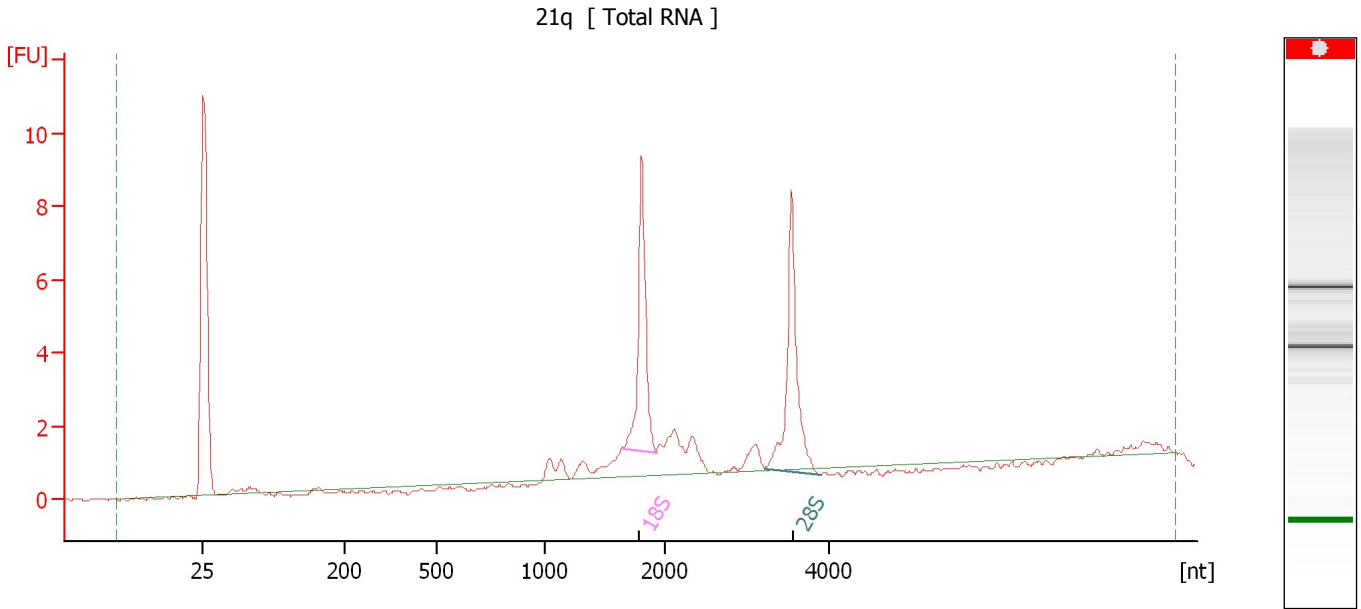
**Fragment table for sample 7 : 19q**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	1,908	12.8	18.7
28S	3,188	4,014	19.3	28.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 21q**

RNA Area: 27.3                      RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 15 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN N/A

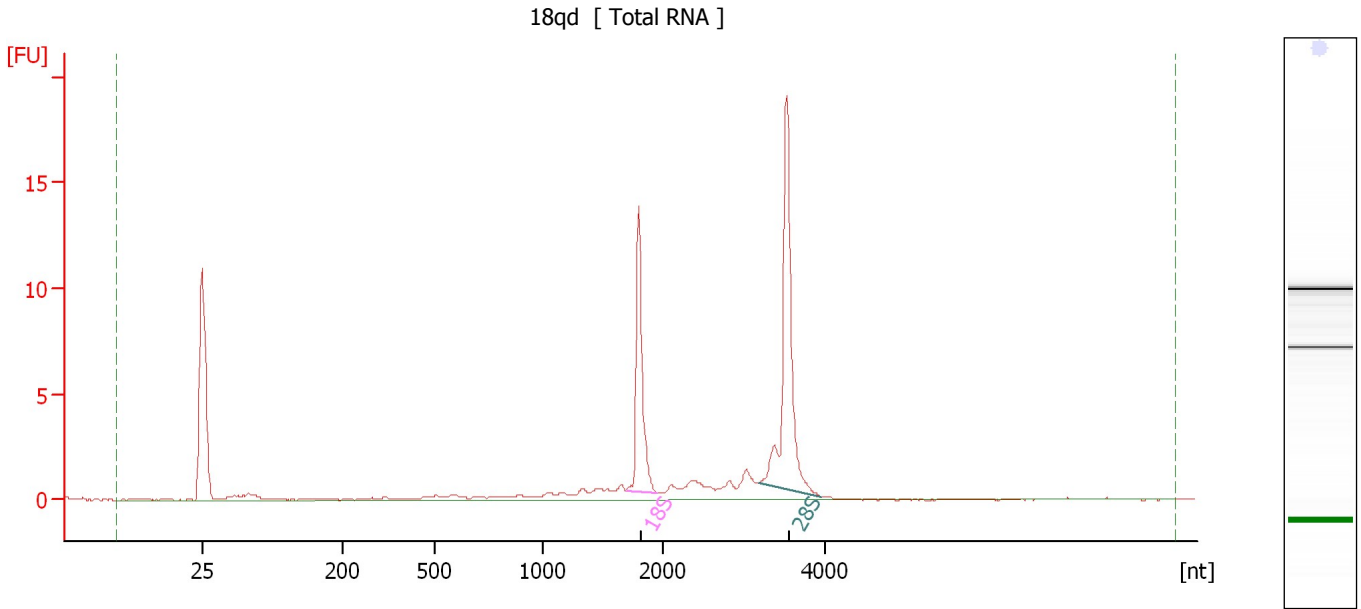
**Fragment table for sample 8 : 21q**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	1,924	7.0	25.5
28S	3,217	3,901	7.9	28.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 18qd**

RNA Area: 45.6                      RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 26 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6              Result Flagging Label: RIN: 9.30

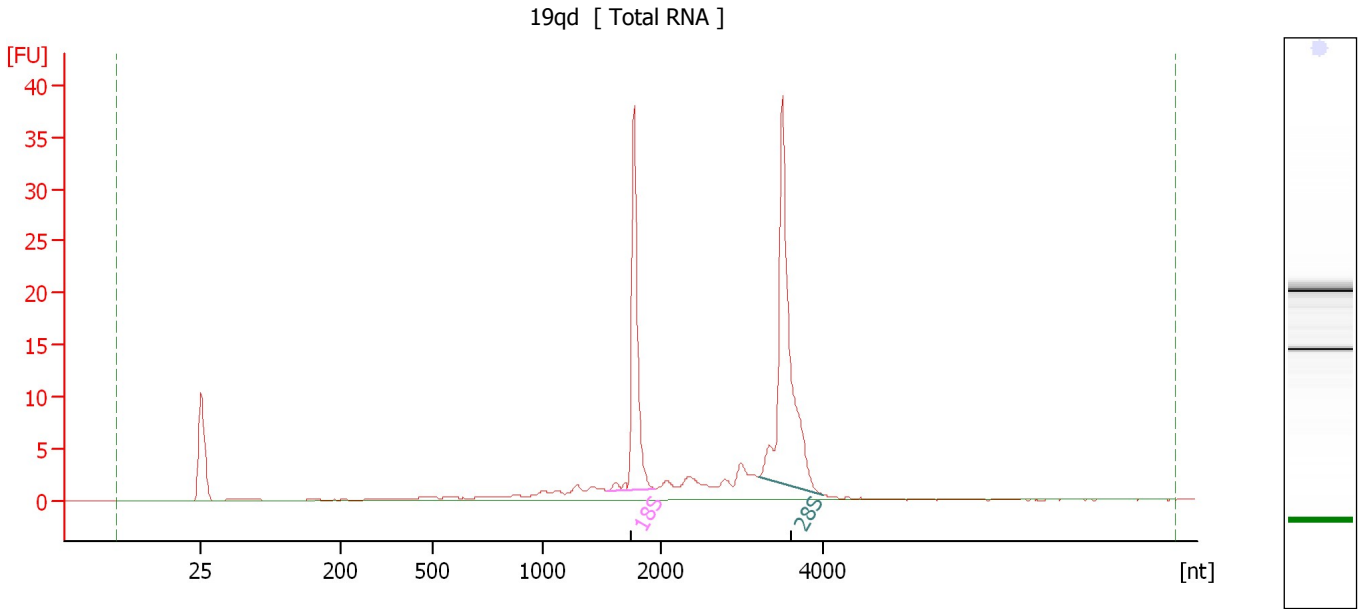
**Fragment table for sample 9 : 18qd**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,691	1,950	10.2	22.4
28S	3,179	3,944	16.1	35.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 19qd**

RNA Area: 119.5                      RNA Integrity Number (RIN): 9.4 (B.02.08)  
RNA Concentration: 67 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5              Result Flagging Label: RIN: 9.40

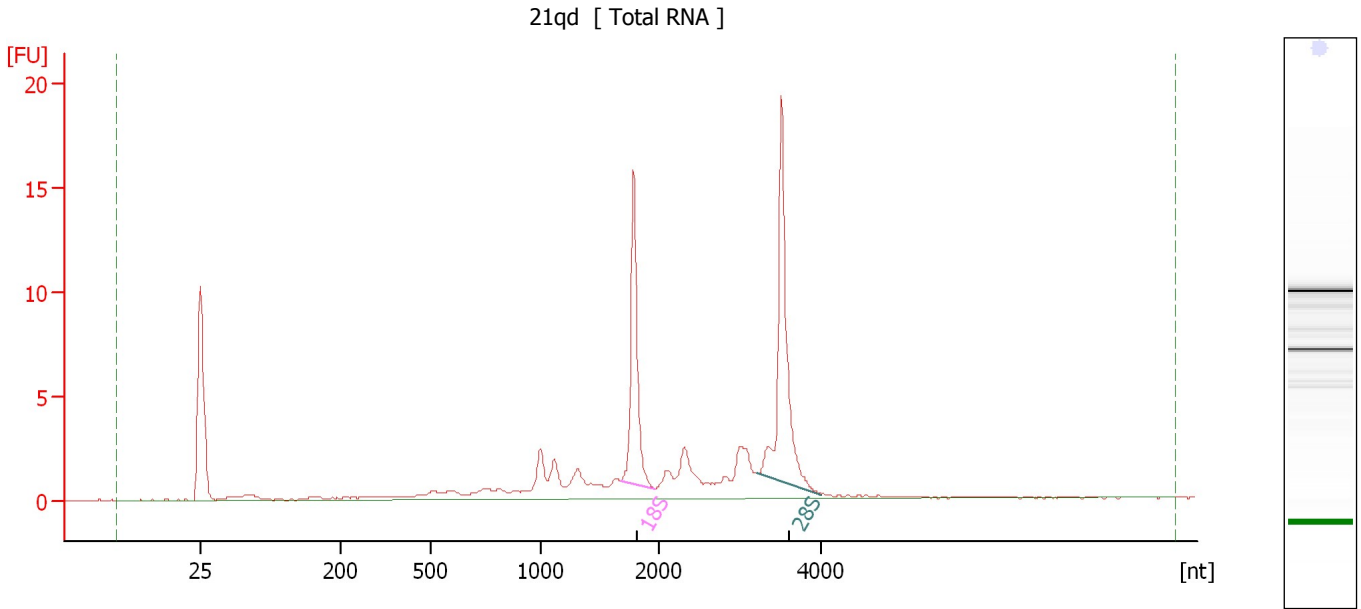
**Fragment table for sample 10 : 19qd**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,547	1,940	28.2	23.6
28S	3,194	4,000	43.4	36.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 21qd**

RNA Area:	67.8	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	38 ng/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]:	1.4	Result Flagging Label:	RIN: 8.10

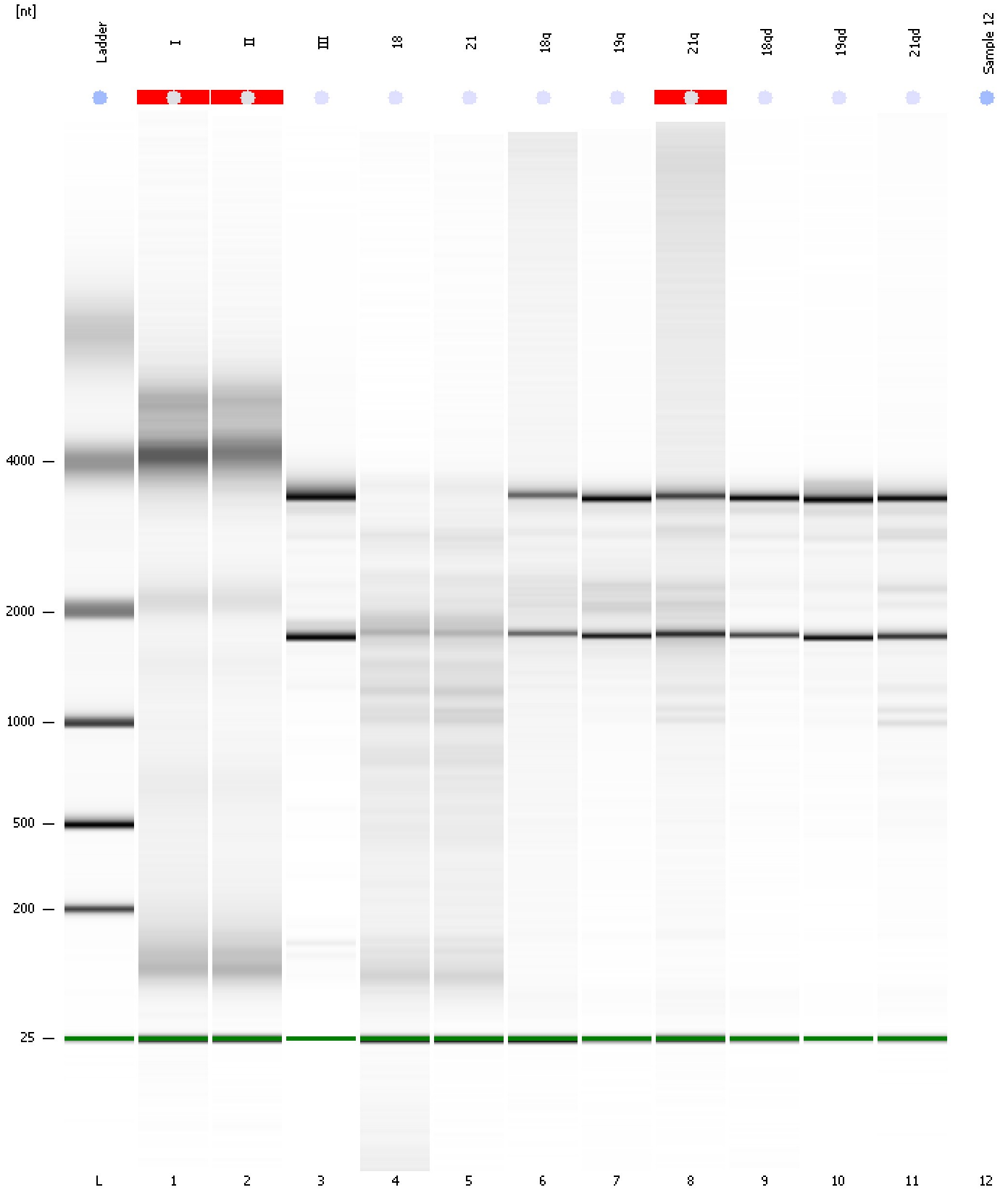
**Fragment table for sample 11 : 21qd**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	1,966	12.2	18.0
28S	3,195	4,003	16.8	24.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-05-29\2015-05-29\_002.xad

Created: 5/29/2015 3:31:49 PM  
Modified: 5/29/2015 3:54:14 PM

**Invalid Samples**

Sample 12 has not been run, no results available.