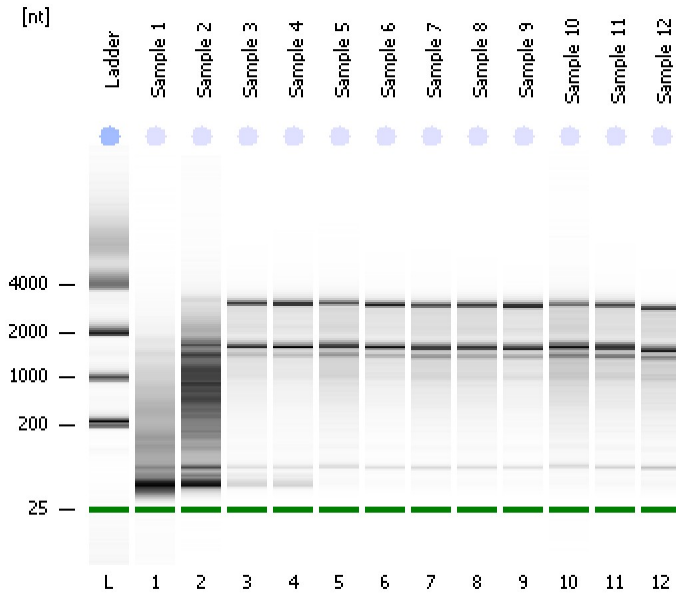


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 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)

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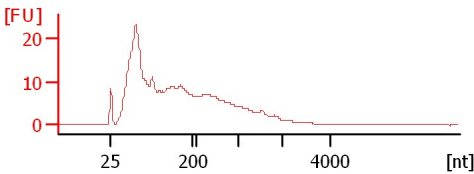
Chip Information:

Chip Lot #:

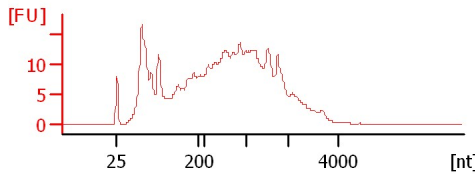
Reagent Kit Lot #:

Chip Comments:

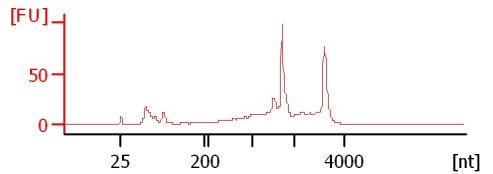
**Sample 1**  
RIN: 2.20



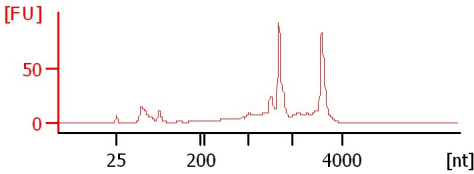
**Sample 2**  
RIN: 2.60



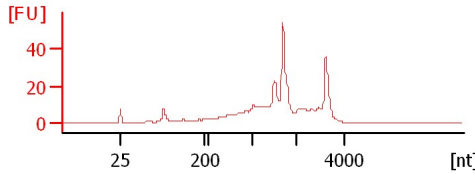
**Sample 3**  
RIN: 6.70



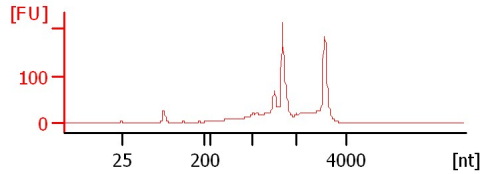
**Sample 4**  
RIN: 7.10



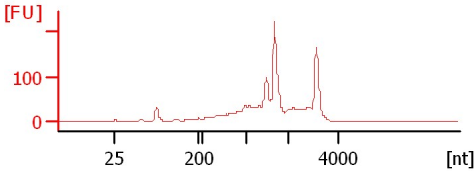
**Sample 5**  
RIN: 6.20



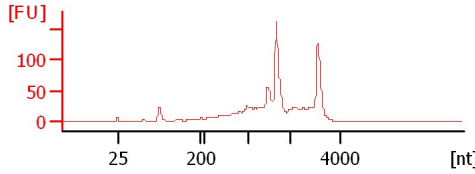
**Sample 6**  
RIN: 6.90



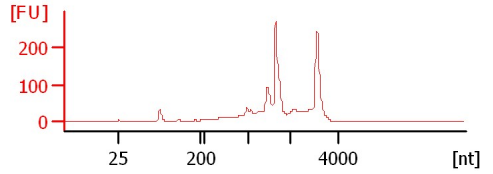
**Sample 7**  
RIN: 6.40



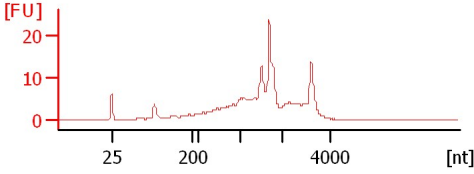
**Sample 8**  
RIN: 6.50



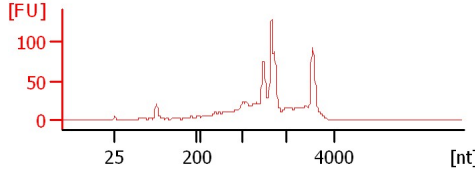
**Sample 9**  
RIN: 6.90



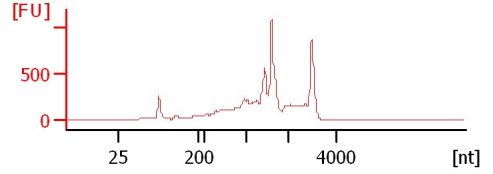
**Sample 10**  
RIN: 5.90



**Sample 11**  
RIN: 6.40



**Sample 12**  
RIN: 6.10



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 2.20	
Sample 2		✓	RIN: 2.60	
Sample 3		✓	RIN: 6.70	
Sample 4		✓	RIN: 7.10	
Sample 5		✓	RIN: 6.20	
Sample 6		✓	RIN: 6.90	
Sample 7		✓	RIN: 6.40	
Sample 8		✓	RIN: 6.50	
Sample 9		✓	RIN: 6.90	
Sample 10		✓	RIN: 5.90	
Sample 11		✓	RIN: 6.40	
Sample 12		✓	RIN: 6.10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 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/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 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

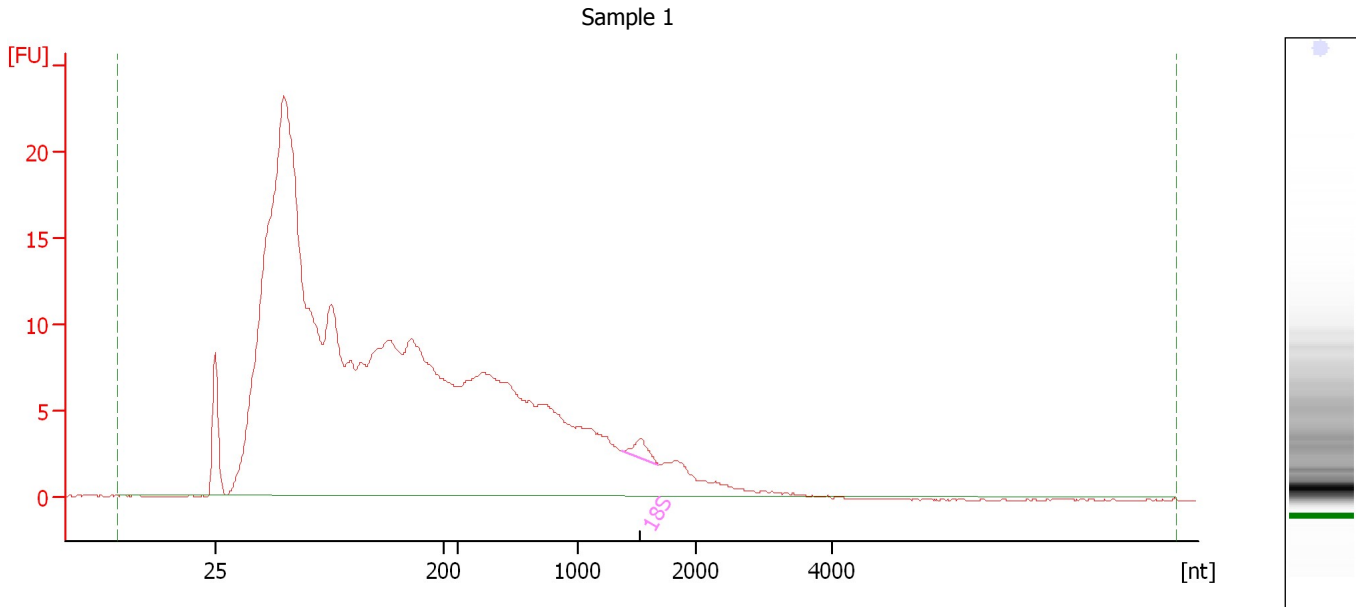
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary**



**Overall Results for sample 1 : Sample 1**

RNA Area:	474.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	435 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: 2.20

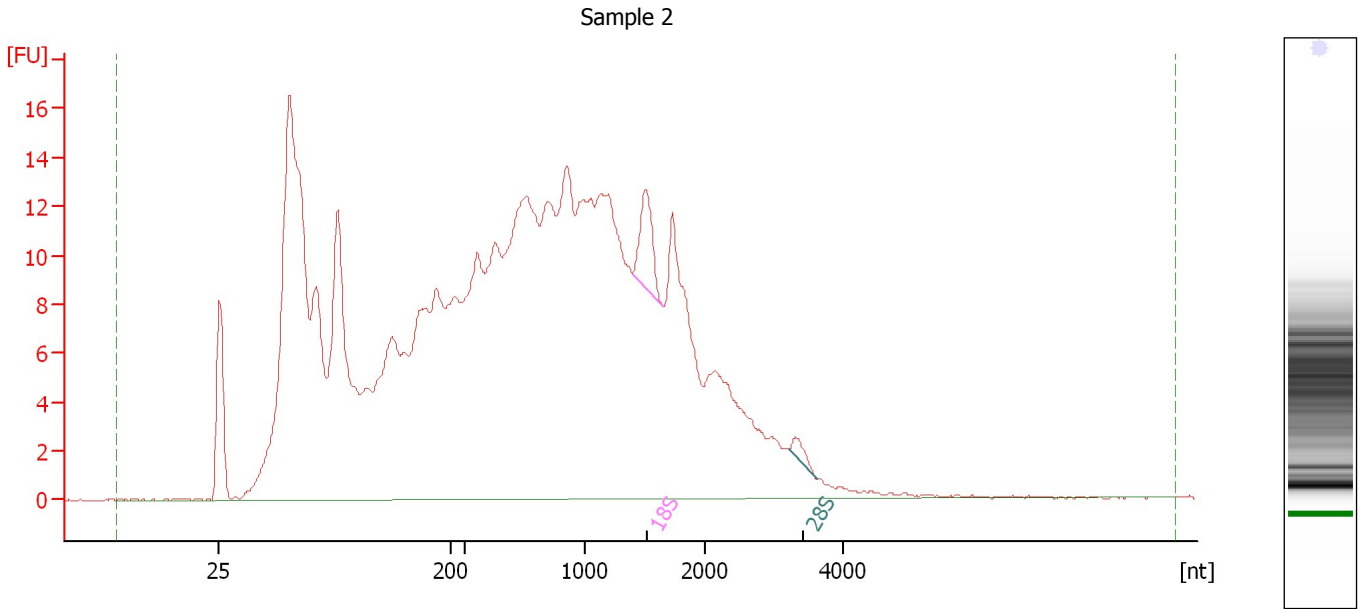
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,371	1,686	2.0	0.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area:	550.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	505 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]:	0.2	Result Flagging Label:	RIN: 2.60

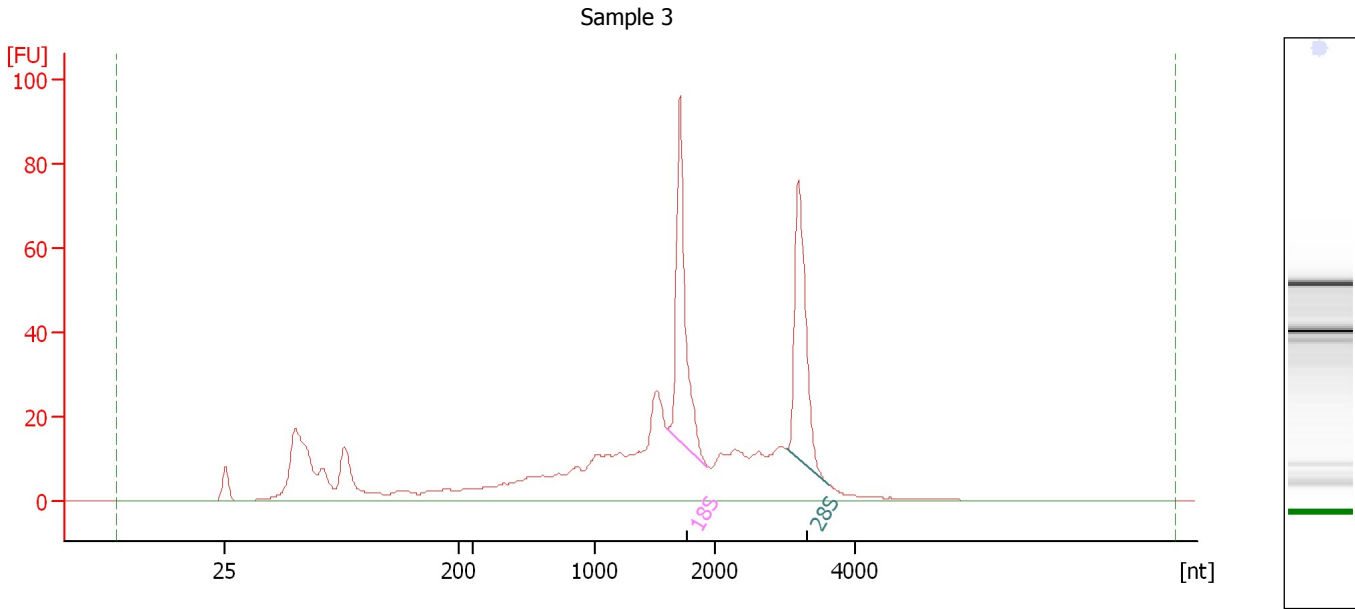
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,389	1,639	6.0	1.1
28S	3,208	3,629	1.2	0.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area:	671.4	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	616 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]:	1.0	Result Flagging Label:	RIN: 6.70

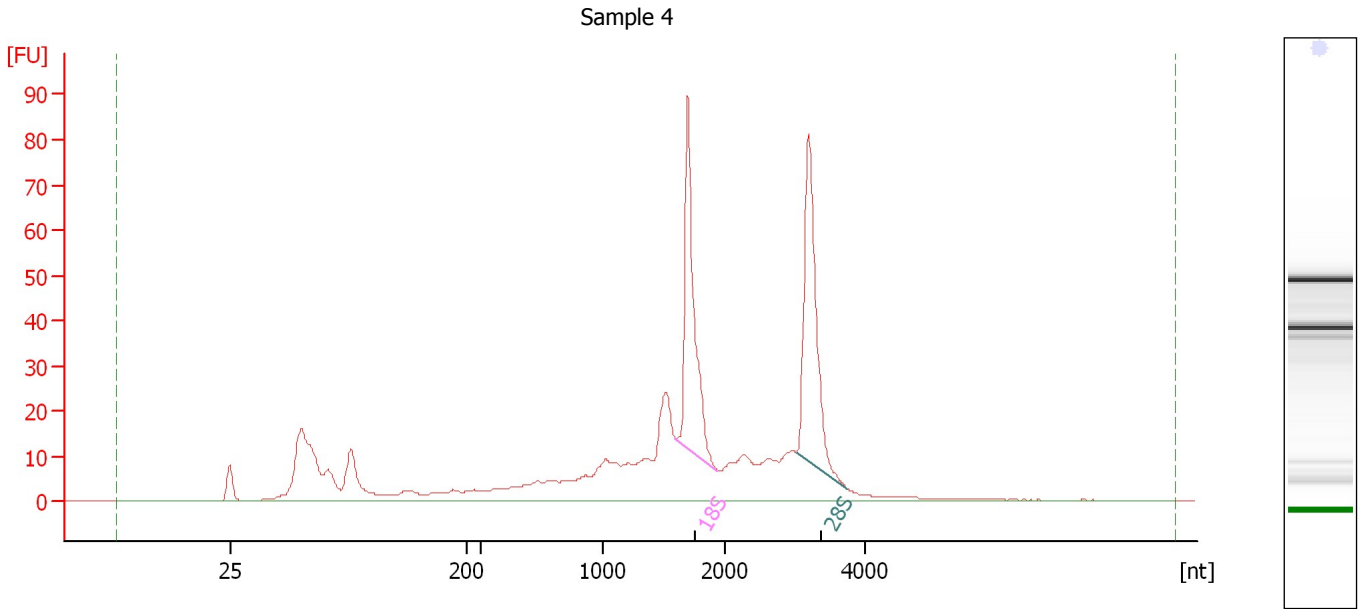
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,601	1,937	81.5	12.1
28S	3,031	3,633	77.7	11.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 4**

RNA Area: 596.9                      RNA Integrity Number (RIN): 7.1 (B.02.08)  
RNA Concentration: 548 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN: 7.10

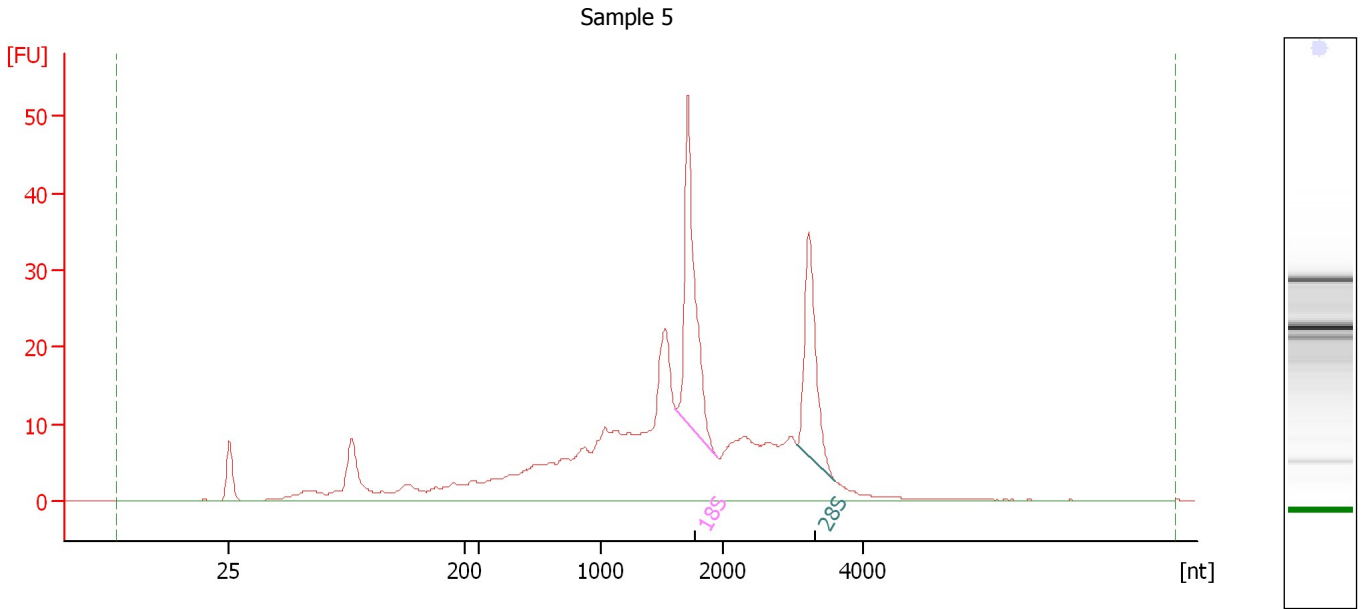
**Fragment table for sample 4 : Sample 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,591	1,932	81.9	13.7
28S	3,011	3,743	89.4	15.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 5**

RNA Area:	406.5	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	373 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]:	0.7	Result Flagging Label:	RIN: 6.20

**Fragment table for sample 5 : Sample 5**

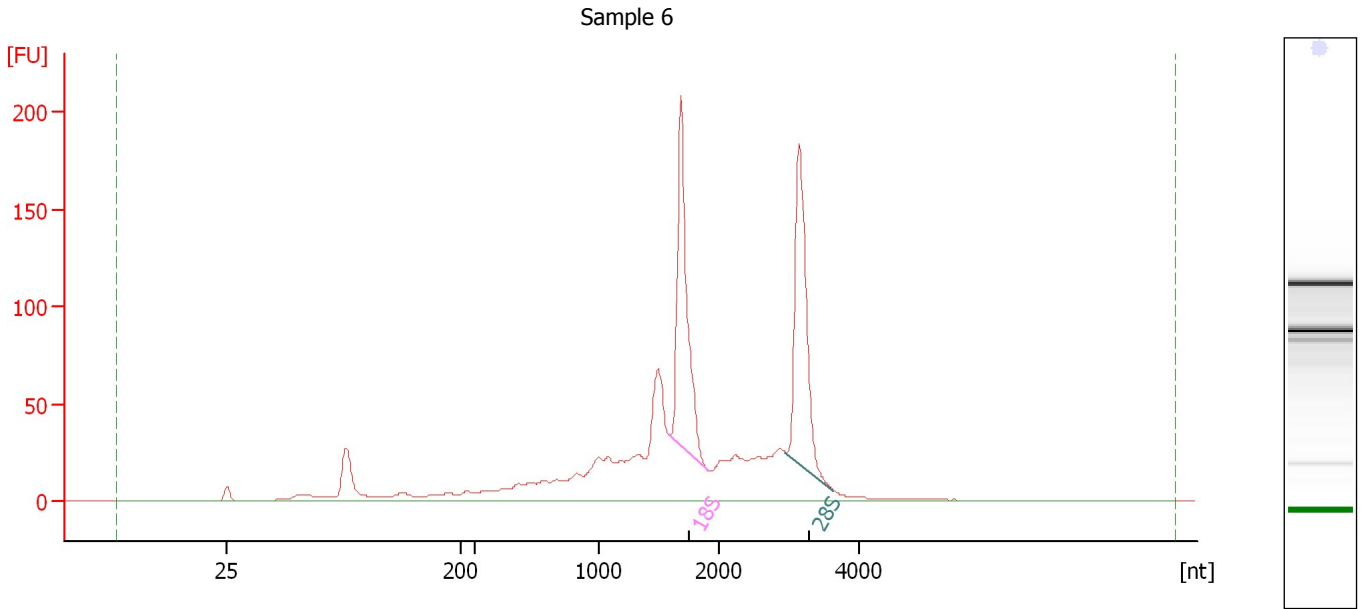
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	1,940	49.8	12.3
28S	3,058	3,593	34.1	8.4



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
 Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 6**

RNA Area:	1,222.7	RNA Integrity Number (RIN):	6.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,122 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]:	1.0	Result Flagging Label:	RIN: 6.90

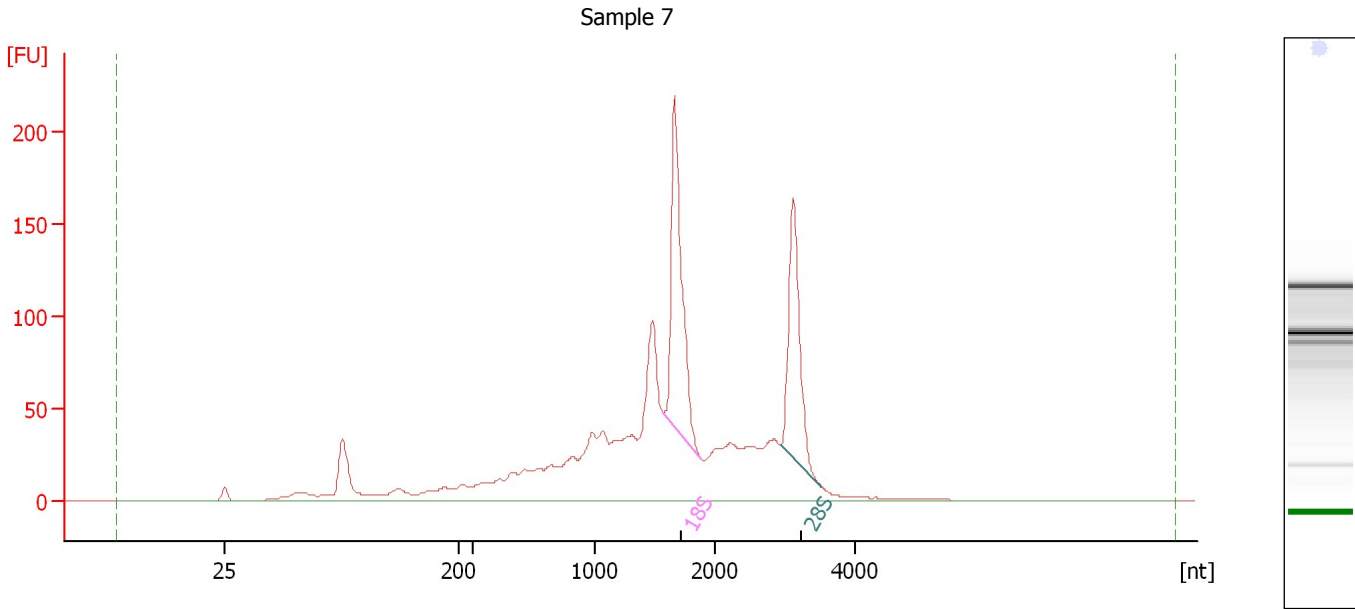
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,912	198.2	16.2
28S	2,952	3,643	193.5	15.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 7**

RNA Area:	1,593.3	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	1,462 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]:	0.8	Result Flagging Label:	RIN: 6.40

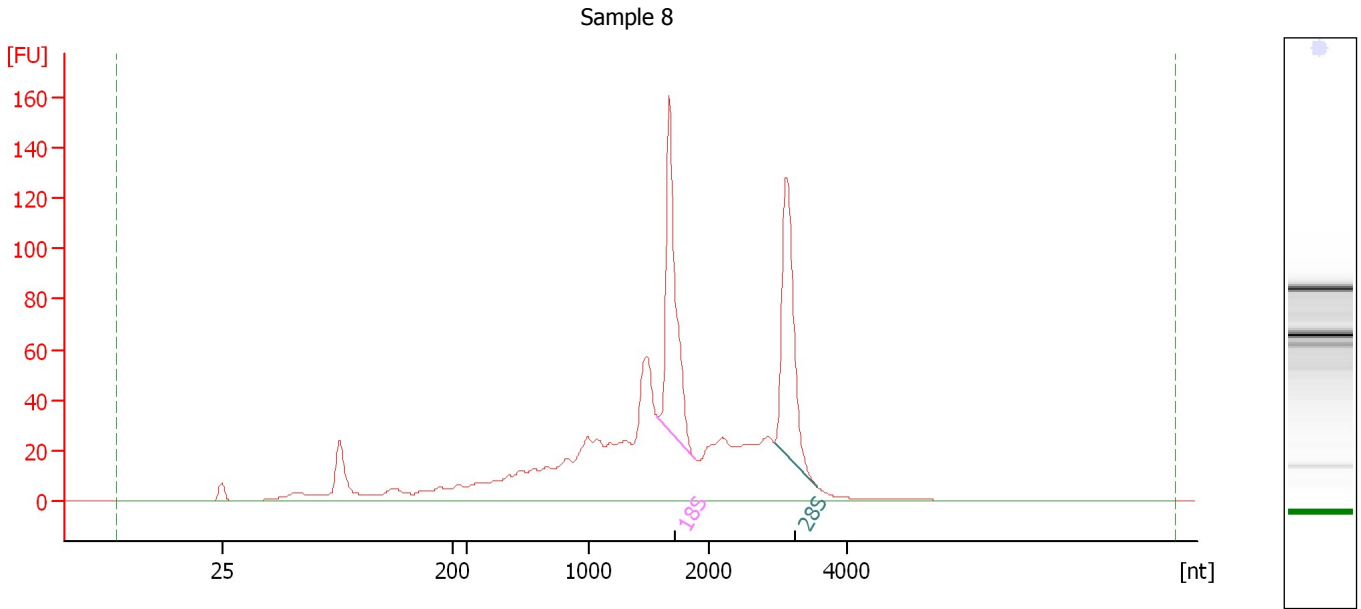
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,884	214.2	13.4
28S	2,939	3,525	164.3	10.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
 Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 8**

RNA Area:	1,146.1	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	1,051 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]:	0.9	Result Flagging Label:	RIN: 6.50

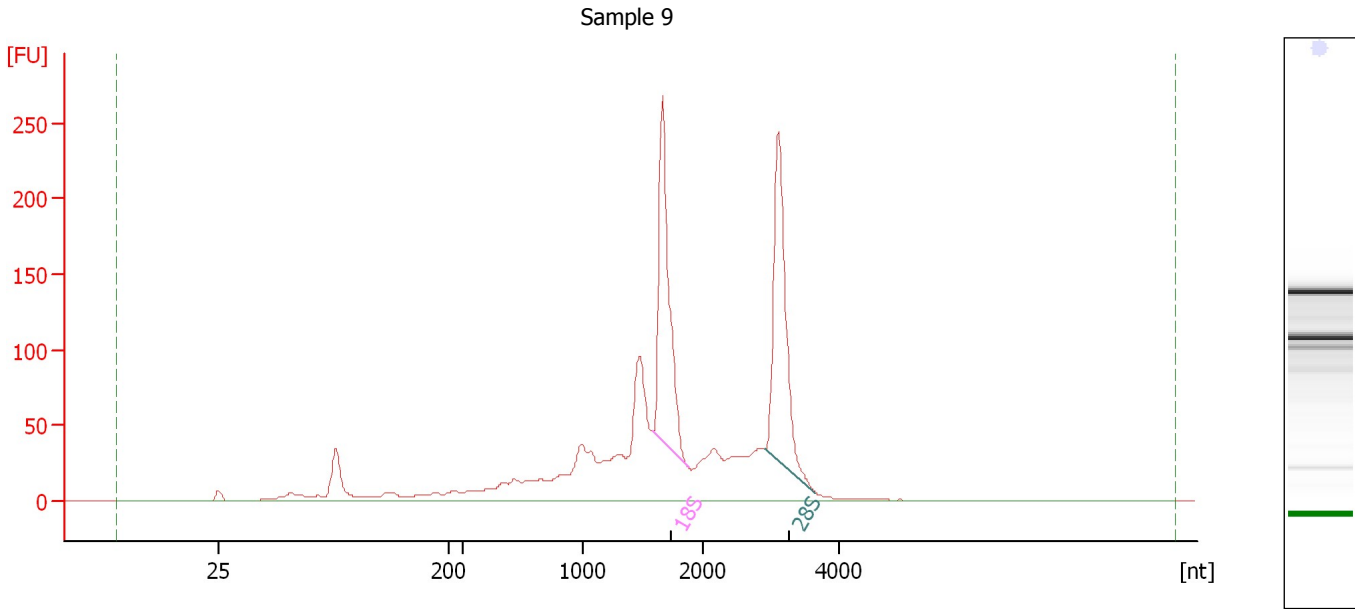
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,570	1,881	149.9	13.1
28S	2,942	3,578	135.2	11.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
 Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 9**

RNA Area:	1,668.9	RNA Integrity Number (RIN):	6.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,531 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]:	1.1	Result Flagging Label:	RIN: 6.90

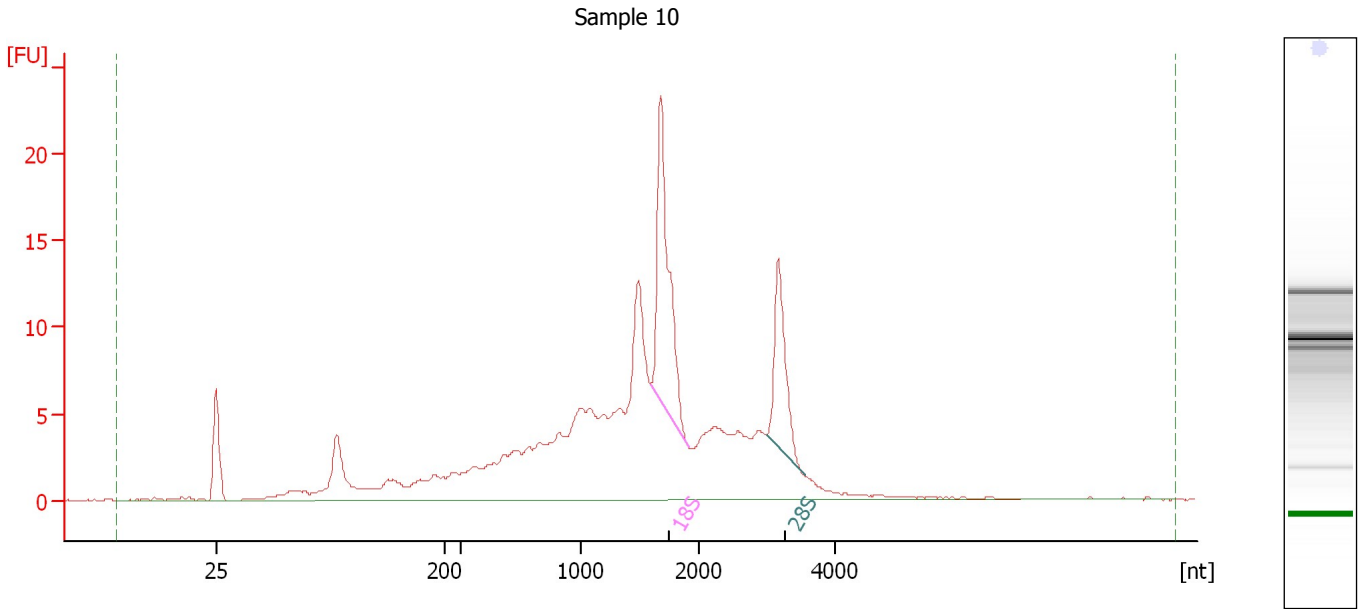
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,575	1,879	265.4	15.9
28S	2,897	3,647	281.7	16.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 10**

RNA Area:	215.6	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	198 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]:	0.6	Result Flagging Label:	RIN: 5.90

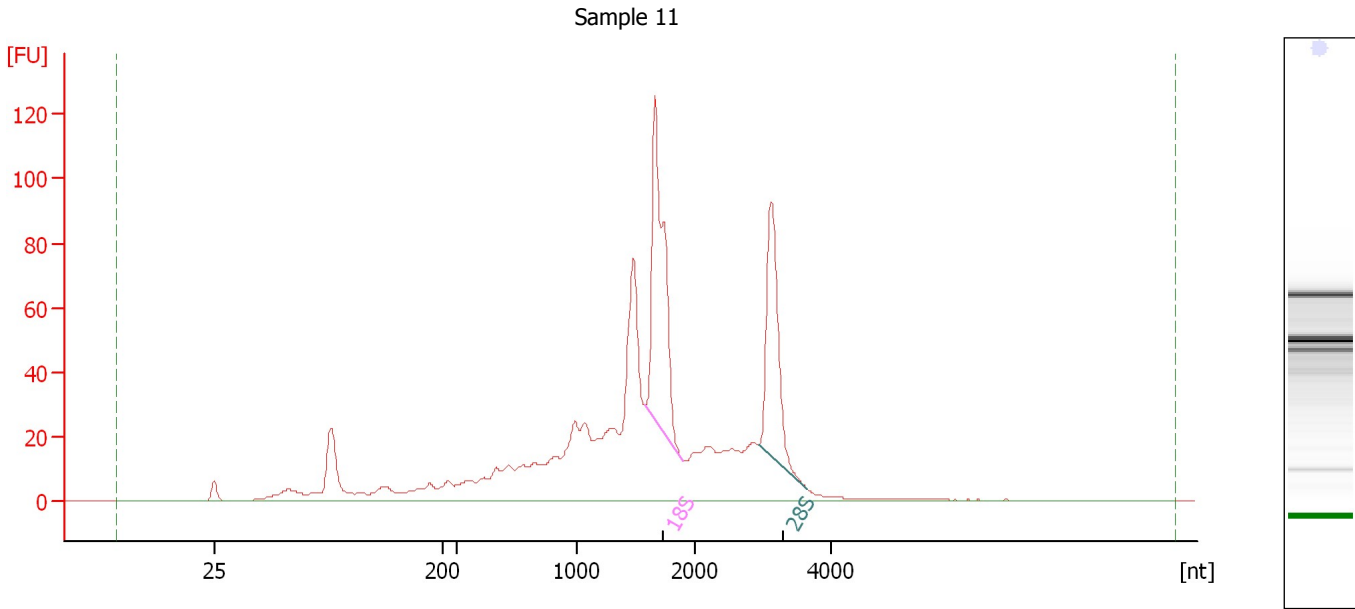
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	1,913	23.5	10.9
28S	2,993	3,542	13.1	6.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
 Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sample 11**

RNA Area:	996.8	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	914 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]:	0.7	Result Flagging Label:	RIN: 6.40

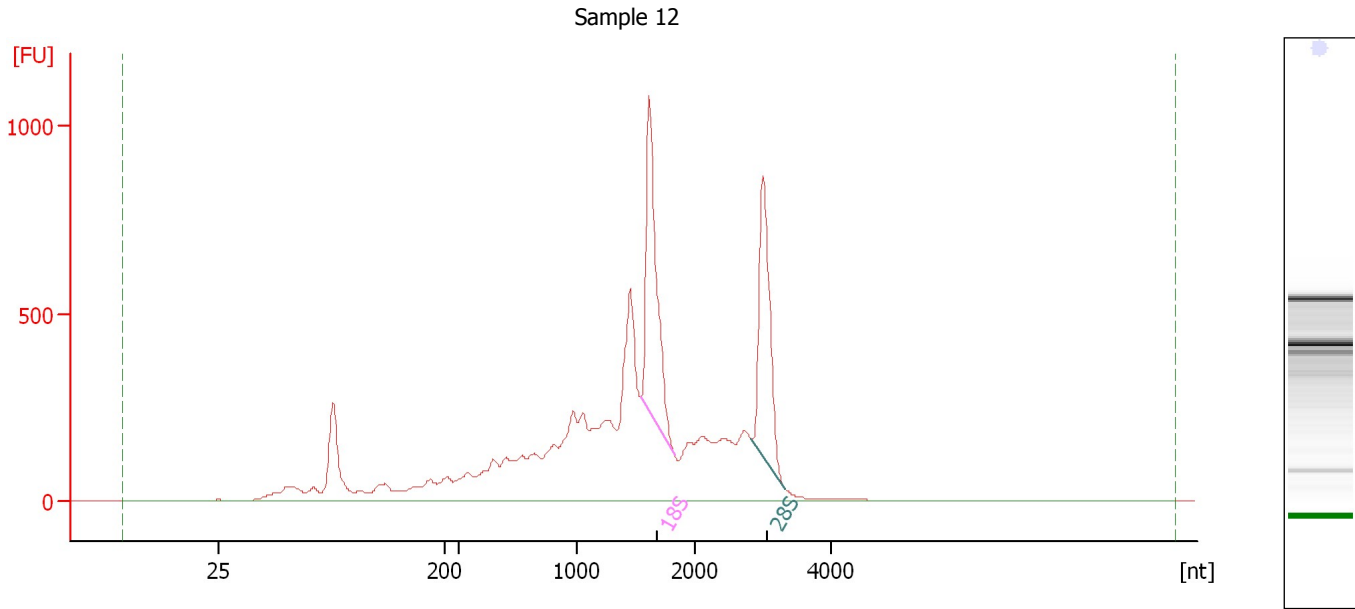
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	1,894	144.7	14.5
28S	2,932	3,656	97.9	9.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
 Modified: 7/3/2014 3:16:59 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Sample 12**

RNA Area:	9,184.1	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	8,425 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]:	0.9	Result Flagging Label:	RIN: 6.10

**Fragment table for sample 12 : Sample 12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,541	1,821	1,016.9	11.1
28S	2,839	3,328	877.1	9.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-03\2014-07-03\_002.xad

Created: 7/3/2014 2:50:55 PM  
Modified: 7/3/2014 3:16:59 PM

**Gel Image**

