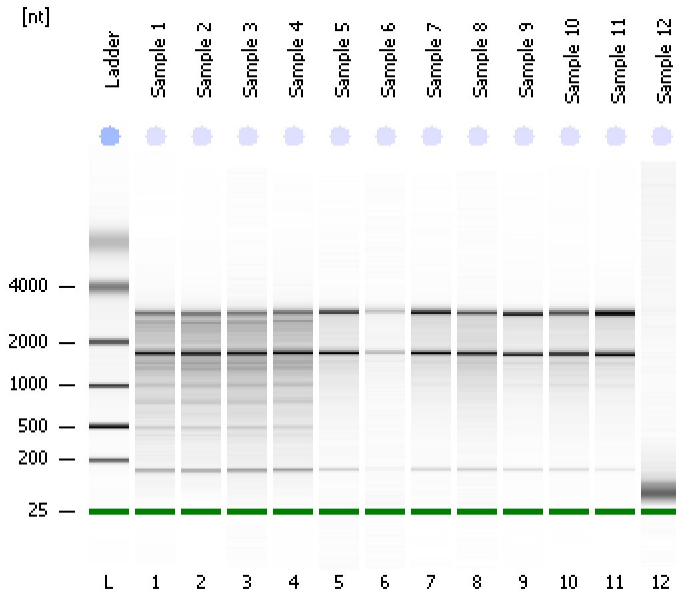


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 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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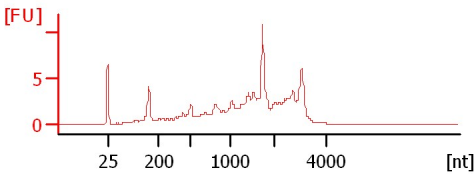
#### Chip Information:

Chip Lot #:

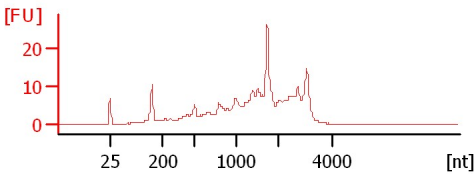
Reagent Kit Lot #:

Chip Comments:

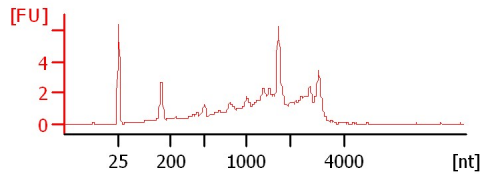
**Sample 1**  
RIN: 5.60



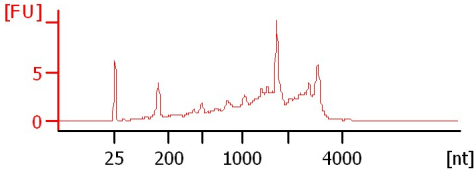
**Sample 2**  
RIN: 5.30



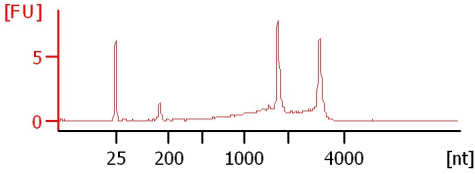
**Sample 3**  
RIN: 5.40



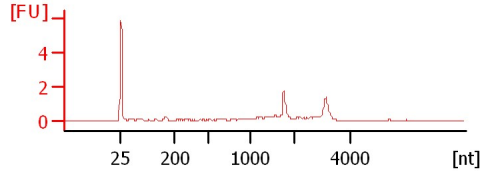
**Sample 4**  
RIN: 5.50



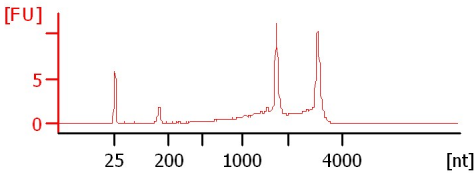
**Sample 5**  
RIN: 7.30



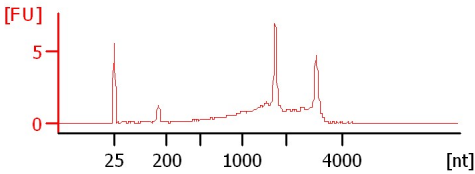
**Sample 6**  
RIN: 7.90



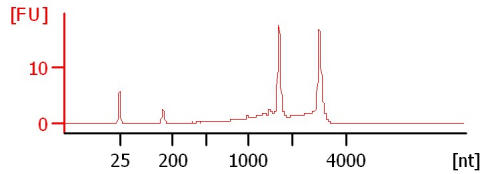
**Sample 7**  
RIN: 7.40



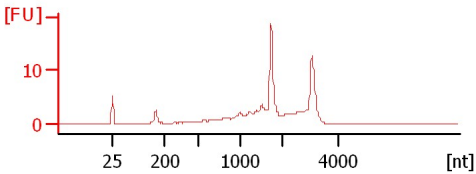
**Sample 8**  
RIN: 6.90



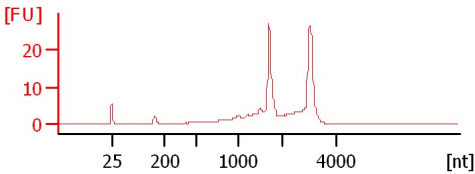
**Sample 9**  
RIN: 7.50



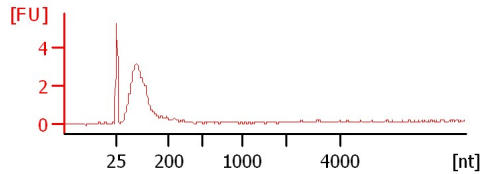
**Sample 10**  
RIN: 7.10



**Sample 11**  
RIN: 8



**Sample 12**  
RIN: 2.60



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 5.60	
Sample 2		✓	RIN: 5.30	
Sample 3		✓	RIN: 5.40	
Sample 4		✓	RIN: 5.50	
Sample 5		✓	RIN: 7.30	
Sample 6		✓	RIN: 7.90	
Sample 7		✓	RIN: 7.40	
Sample 8		✓	RIN: 6.90	
Sample 9		✓	RIN: 7.50	
Sample 10		✓	RIN: 7.10	
Sample 11		✓	RIN:8	
Sample 12		✓	RIN: 2.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 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

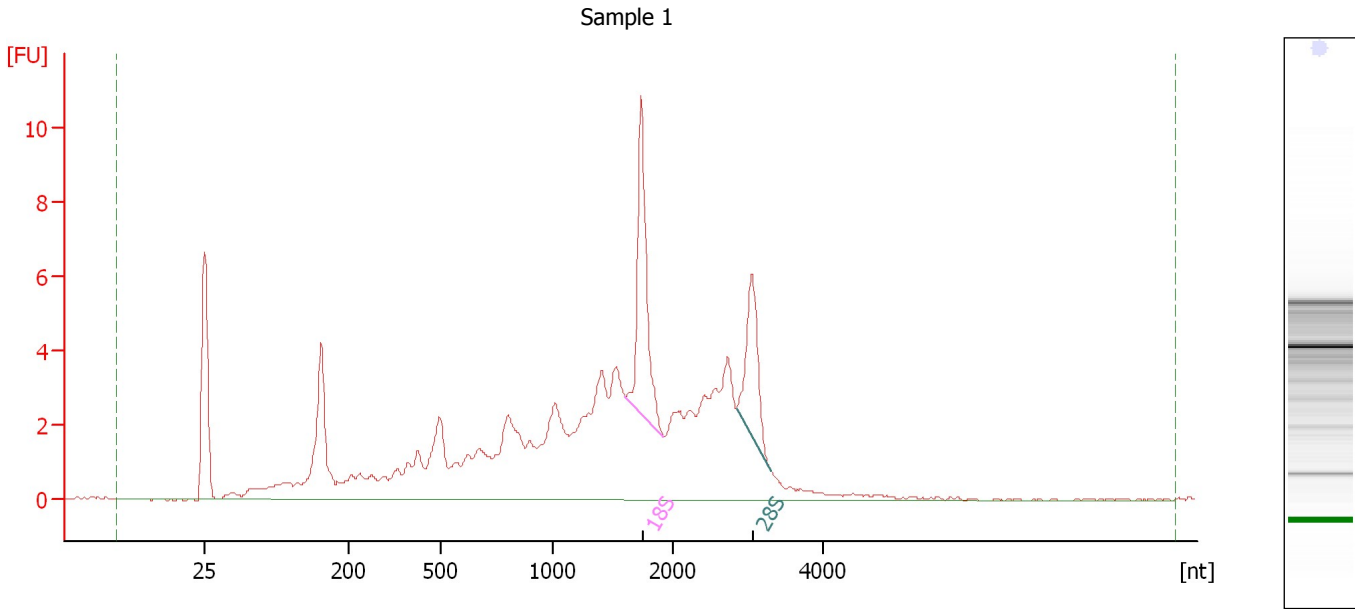
**Ladder**

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\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary**



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

RNA Area:	115.1	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	109 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: 5.60

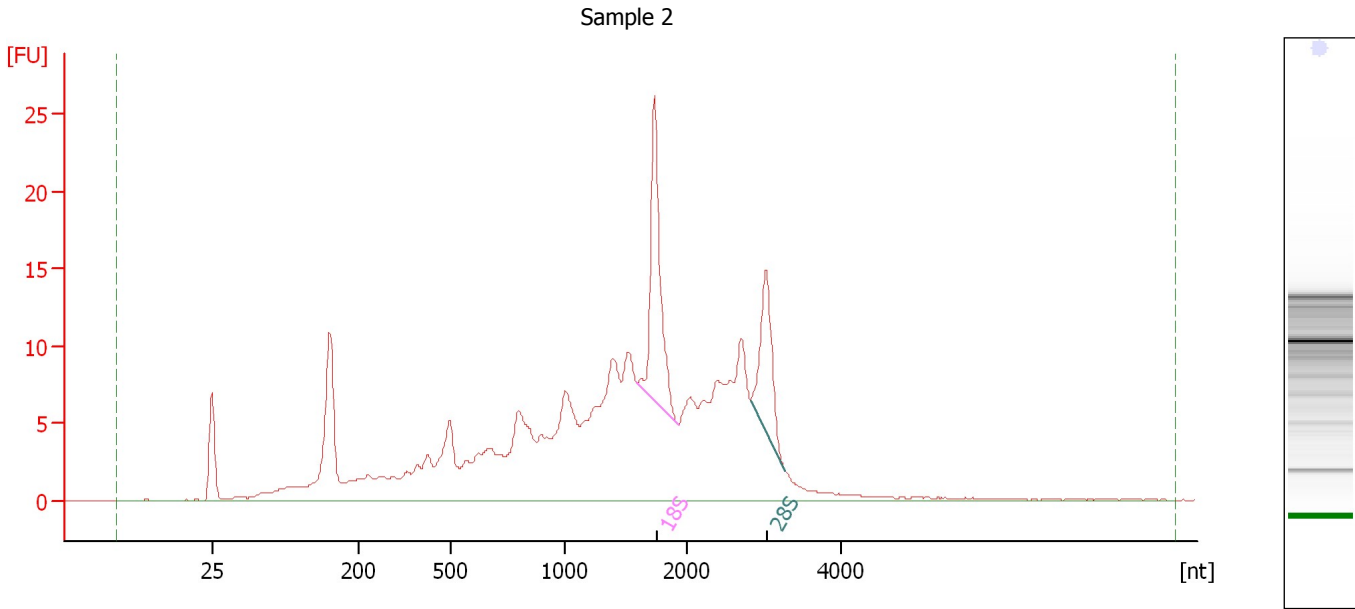
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,603	1,914	9.1	7.9
28S	2,844	3,298	5.5	4.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	301.0	RNA Integrity Number (RIN):	5.3 (B.02.08)
RNA Concentration:	286 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: 5.30

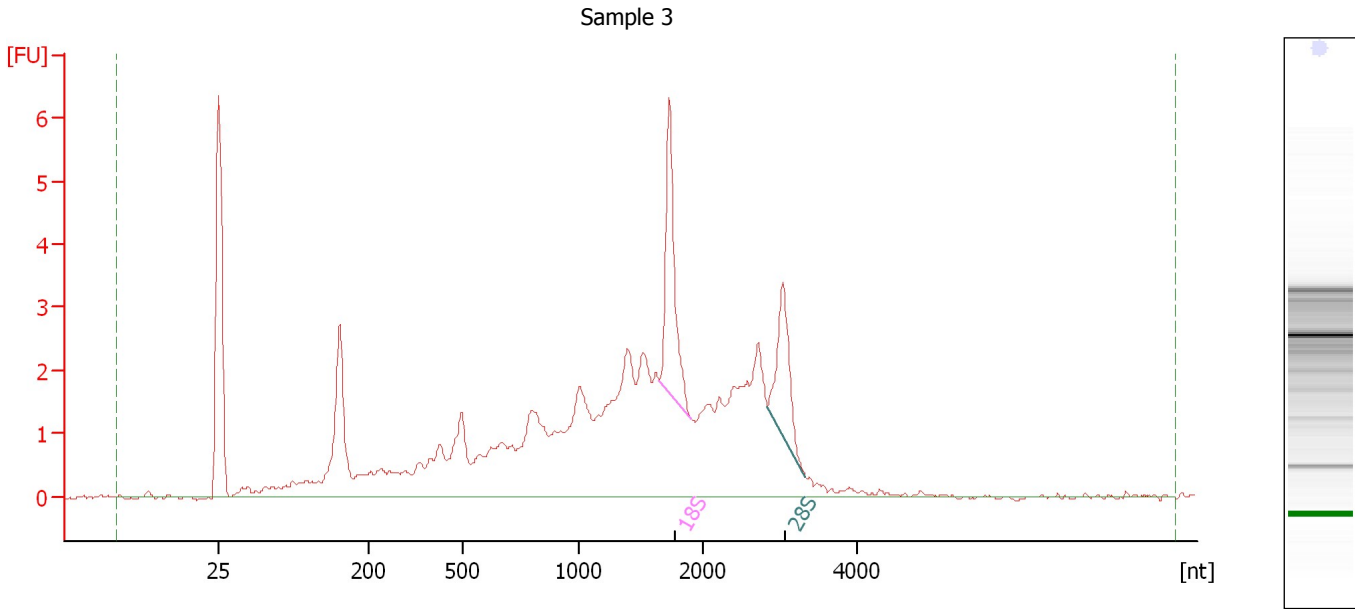
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	1,920	22.6	7.5
28S	2,824	3,286	12.9	4.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 72.4                      RNA Integrity Number (RIN): 5.4 (B.02.08)  
RNA Concentration: 69 ng/μl            Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.6            Result Flagging Label: RIN: 5.40

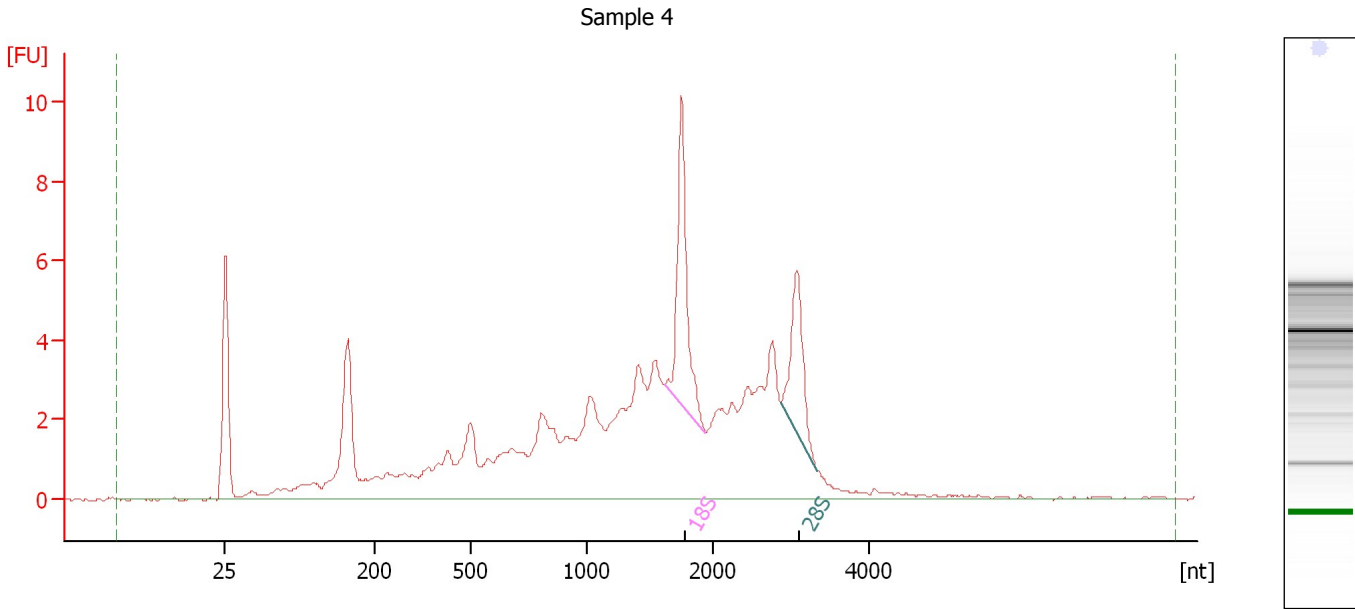
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,658	1,908	4.9	6.7
28S	2,847	3,330	3.1	4.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	111.9	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	106 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: 5.50

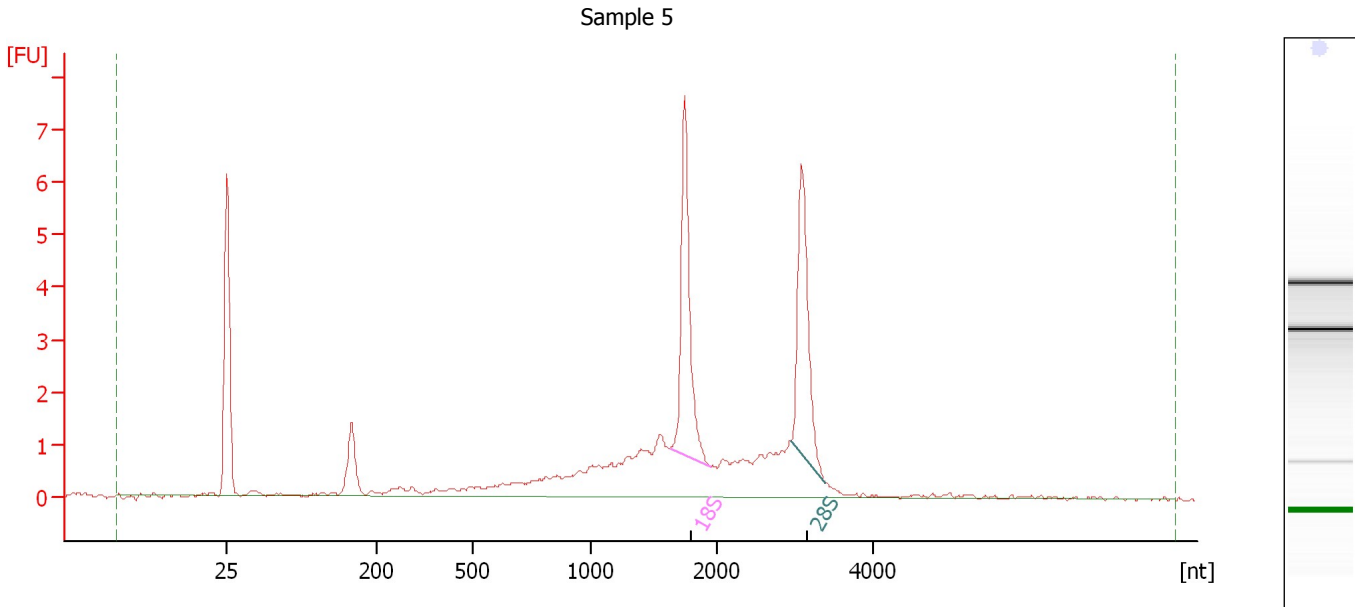
**Fragment table for sample 4 : Sample 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,946	8.5	7.6
28S	2,870	3,348	5.1	4.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	39.3	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	37 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: 7.30

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

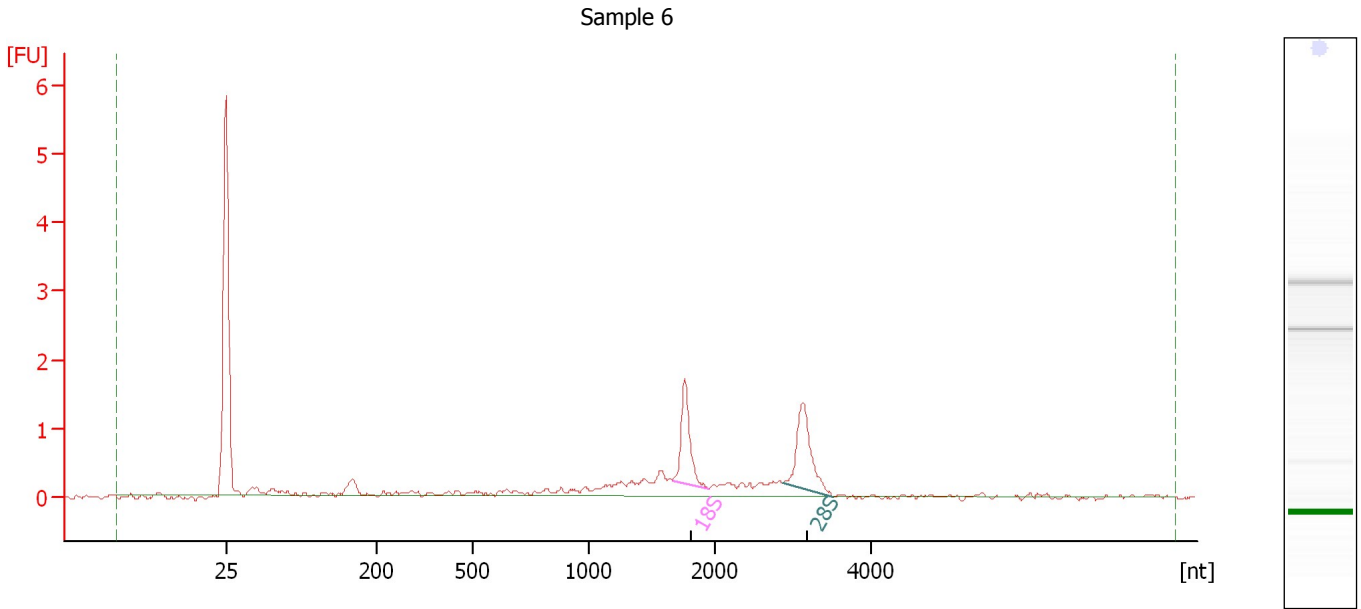
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,633	1,948	6.9	17.6
28S	2,950	3,386	5.9	14.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 11.1 RNA Integrity Number (RIN): 7.9 (B.02.08)  
RNA Concentration: 10 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 7.90

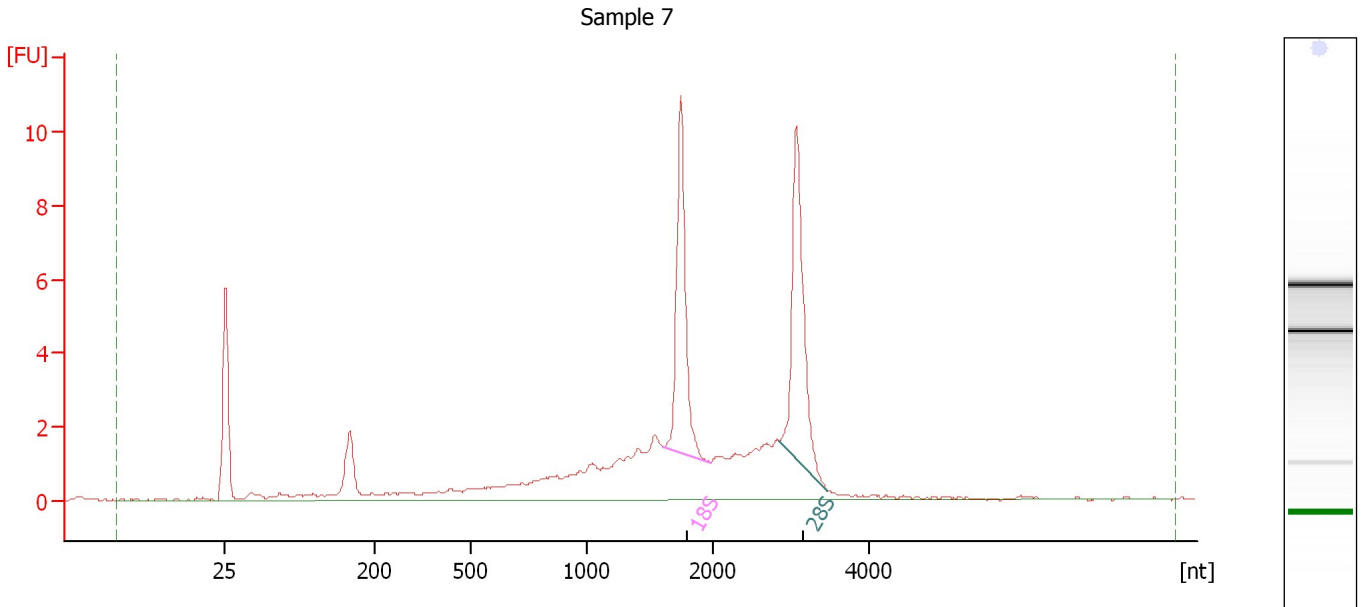
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	1,955	1.5	14.0
28S	2,870	3,524	1.8	16.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	66.6	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	63 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: 7.40

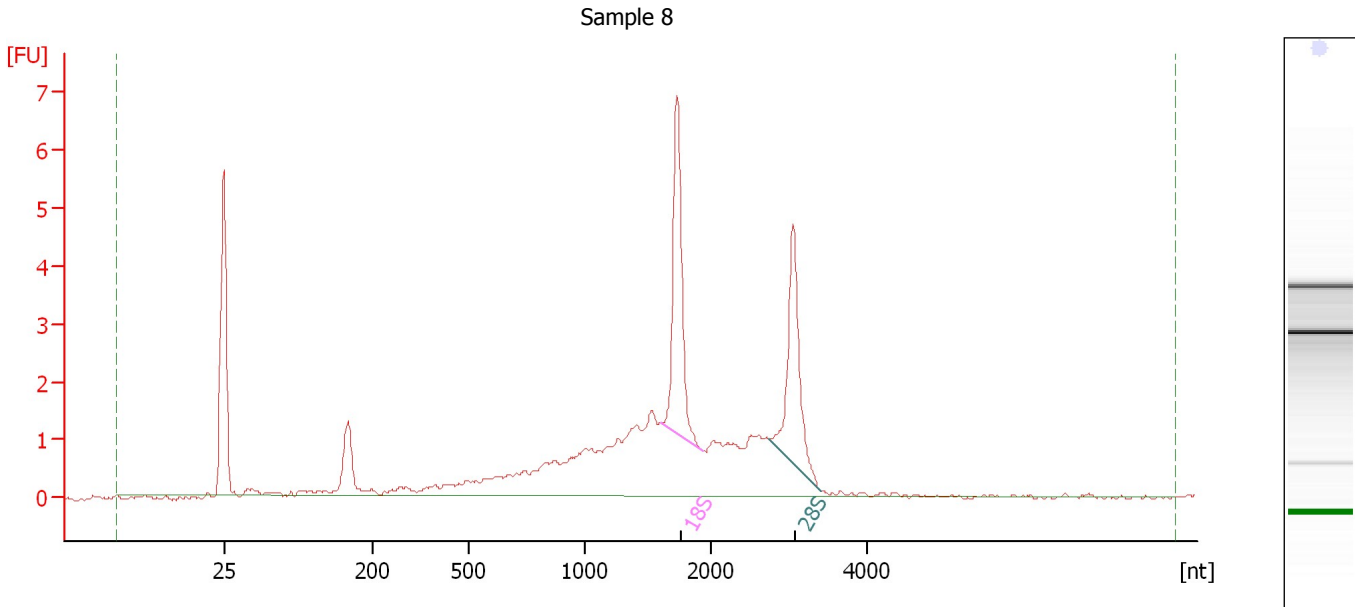
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,989	9.9	14.9
28S	2,857	3,471	10.9	16.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	43.8	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	42 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: 6.90

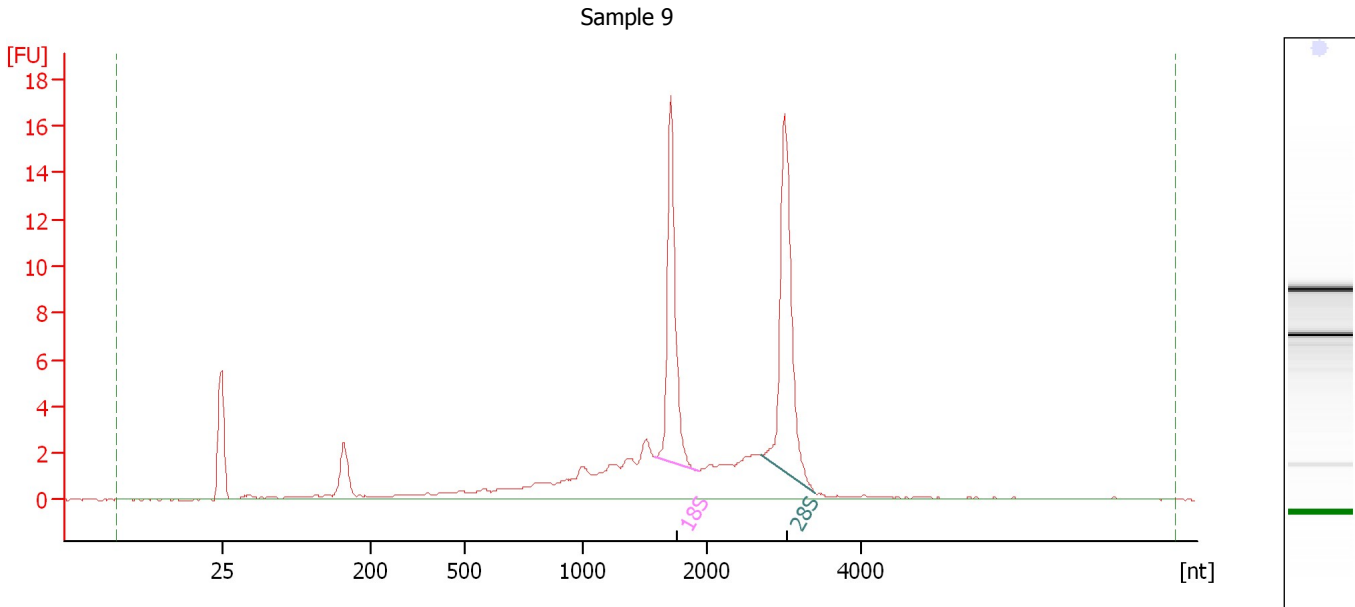
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,603	1,937	5.8	13.3
28S	2,762	3,405	5.0	11.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
 Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	83.8	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	79 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]:	1.2	Result Flagging Label:	RIN: 7.50

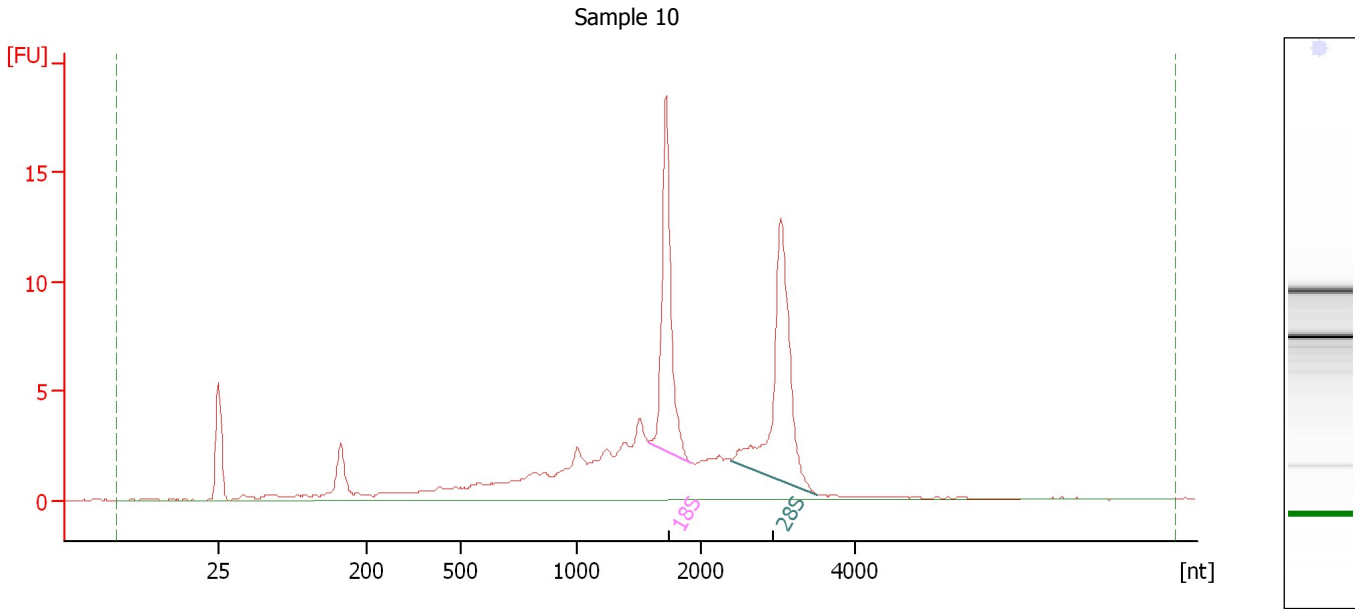
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,591	1,935	14.9	17.7
28S	2,708	3,409	18.0	21.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	109.0	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	103 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]:	1.2	Result Flagging Label:	RIN: 7.10

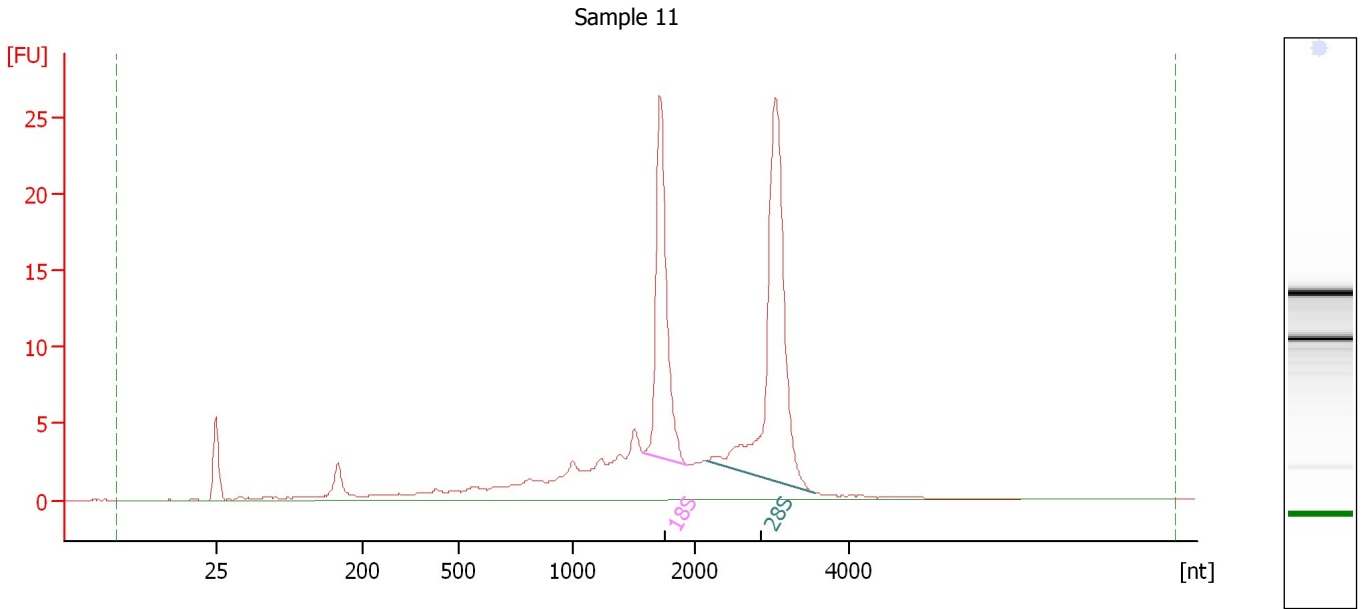
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	1,933	17.3	15.9
28S	2,405	3,525	21.0	19.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 157.8                      RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 150 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN:8

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

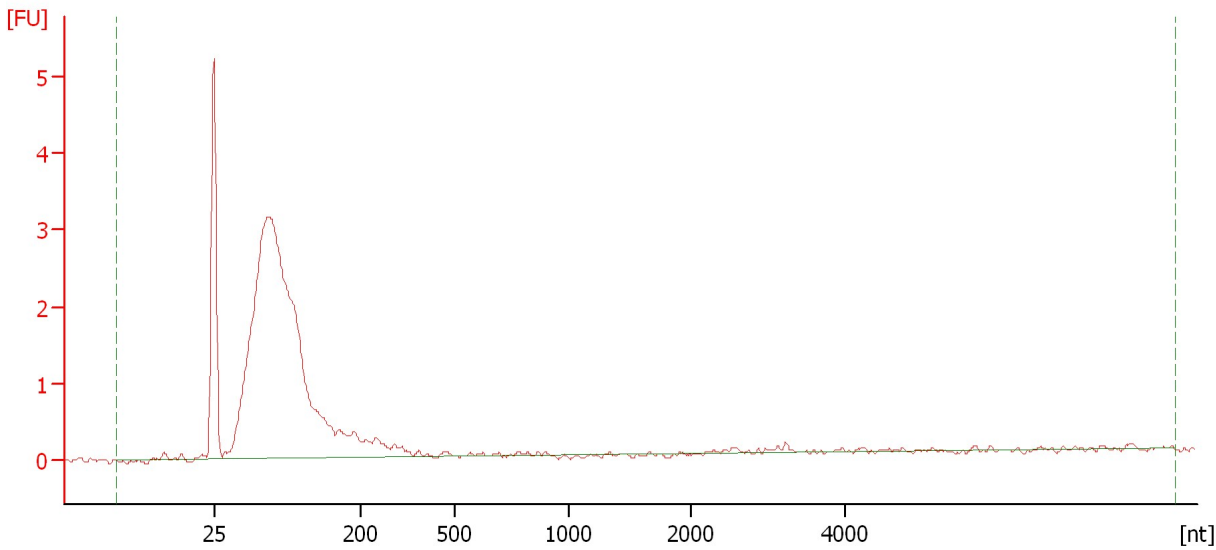
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,923	28.8	18.3
28S	2,141	3,543	47.1	29.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Electropherogram Summary Continued ...**

Sample 12



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

RNA Area:	31.3	RNA Integrity Number (RIN):	2.6 (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: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-17\2014-06-17\_002.xad

Created: 6/17/2014 2:45:31 PM  
Modified: 6/17/2014 3:09:20 PM

**Gel Image**

