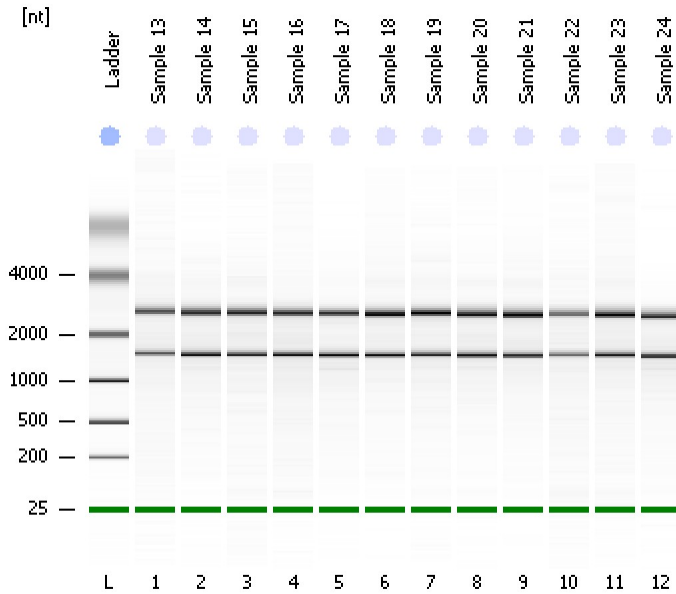


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

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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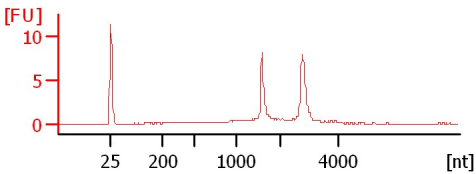
Chip Information:

Chip Lot #:

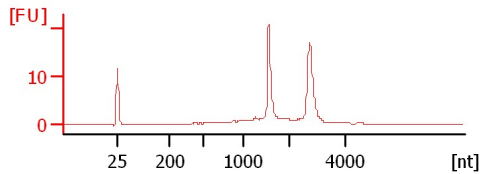
Reagent Kit Lot #:

Chip Comments:

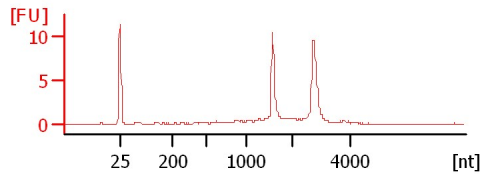
Sample 13  
RIN: 8.60



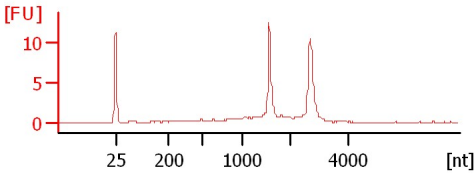
Sample 14  
RIN: 9



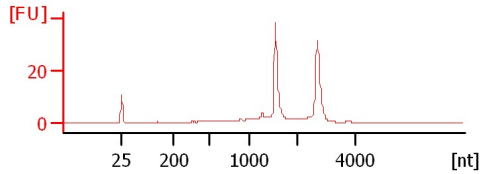
Sample 15  
RIN: 8.90



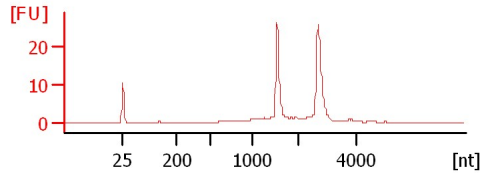
Sample 16  
RIN: 8.60



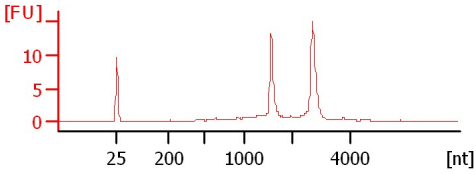
Sample 17  
RIN: 8.40



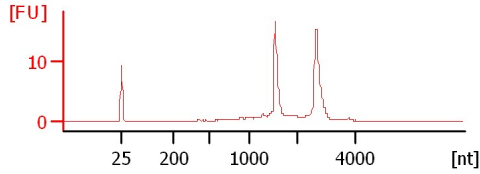
Sample 18  
RIN: 9.30



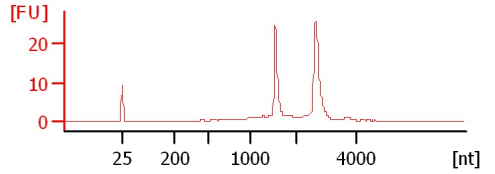
Sample 19  
RIN: 8.90



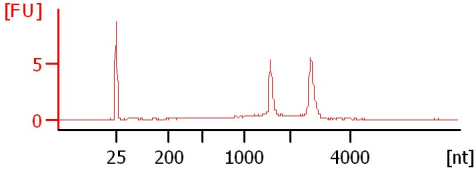
Sample 20  
RIN: 9.10



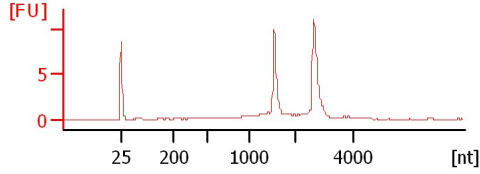
Sample 21  
RIN: 8.90



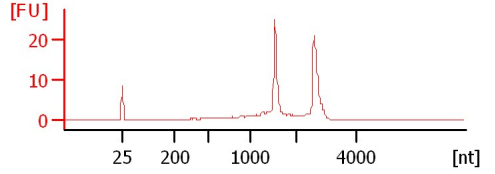
Sample 22  
RIN: 8.40



Sample 23  
RIN: 9



Sample 24  
RIN: 8.70



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
 Modified: 9/10/2015 11:59:28 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 13		✓	RIN: 8.60	
Sample 14		✓	RIN:9	
Sample 15		✓	RIN: 8.90	
Sample 16		✓	RIN: 8.60	
Sample 17		✓	RIN: 8.40	
Sample 18		✓	RIN: 9.30	
Sample 19		✓	RIN: 8.90	
Sample 20		✓	RIN: 9.10	
Sample 21		✓	RIN: 8.90	
Sample 22		✓	RIN: 8.40	
Sample 23		✓	RIN:9	
Sample 24		✓	RIN: 8.70	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

## 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

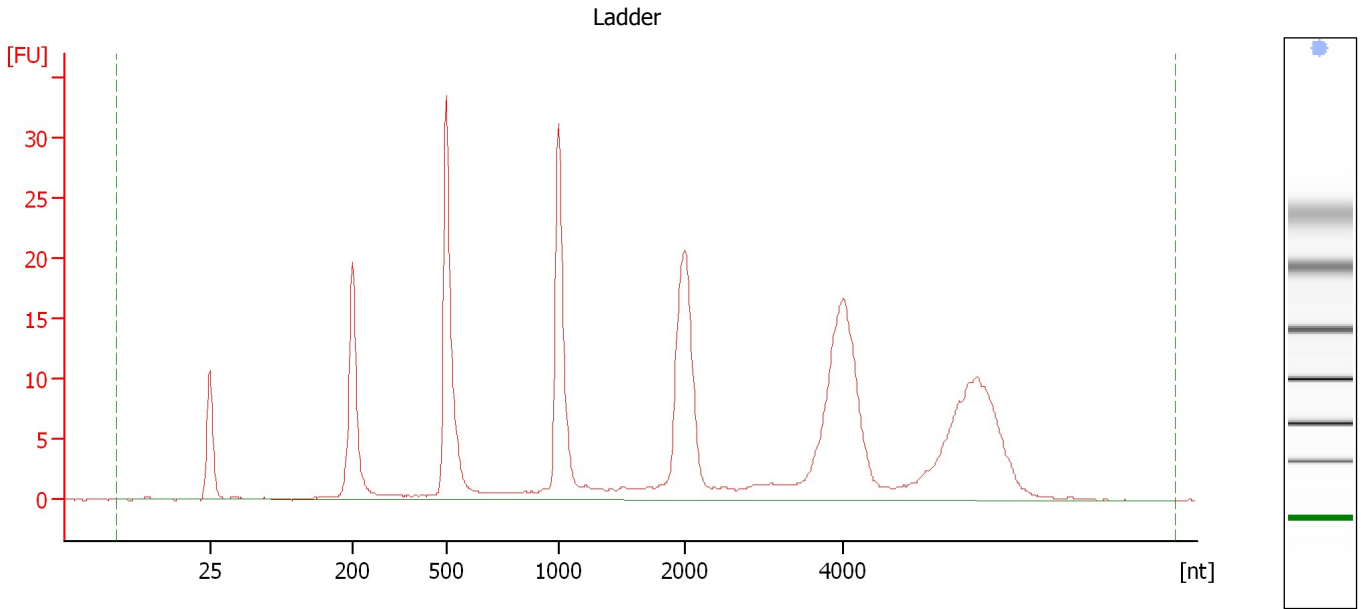
### Ladder

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\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary**



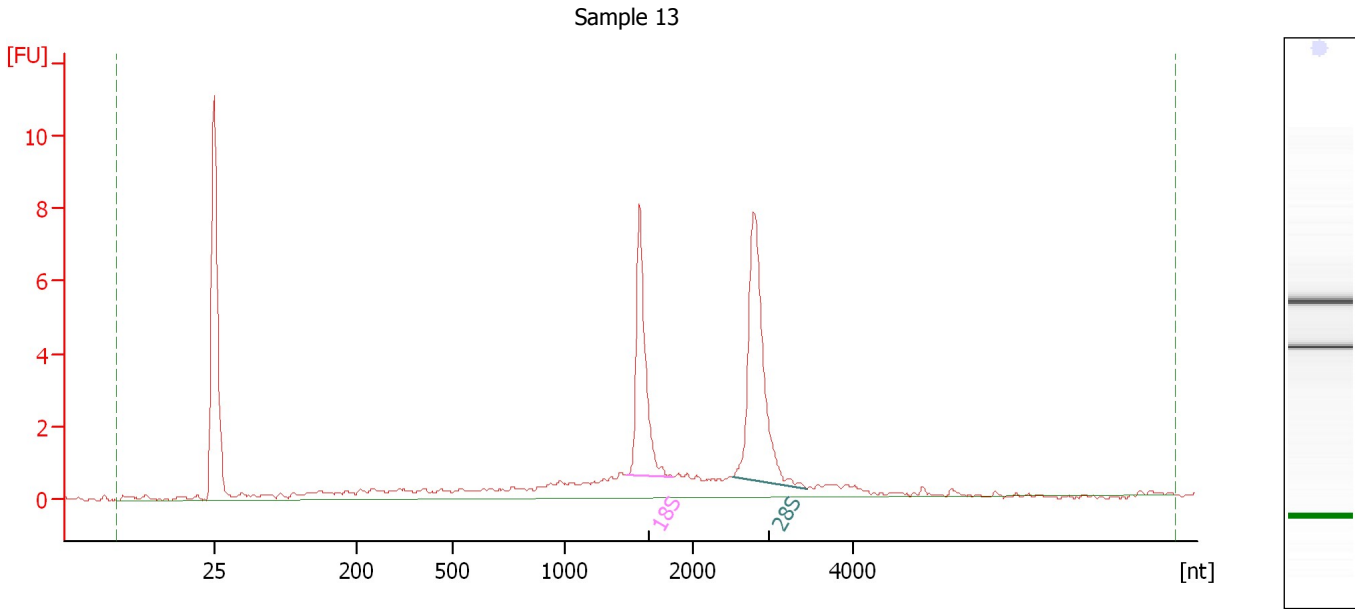
**Overall Results for Ladder**

RNA Area:	277.2	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\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 13**

RNA Area:	43.6	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	24 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: 8.60

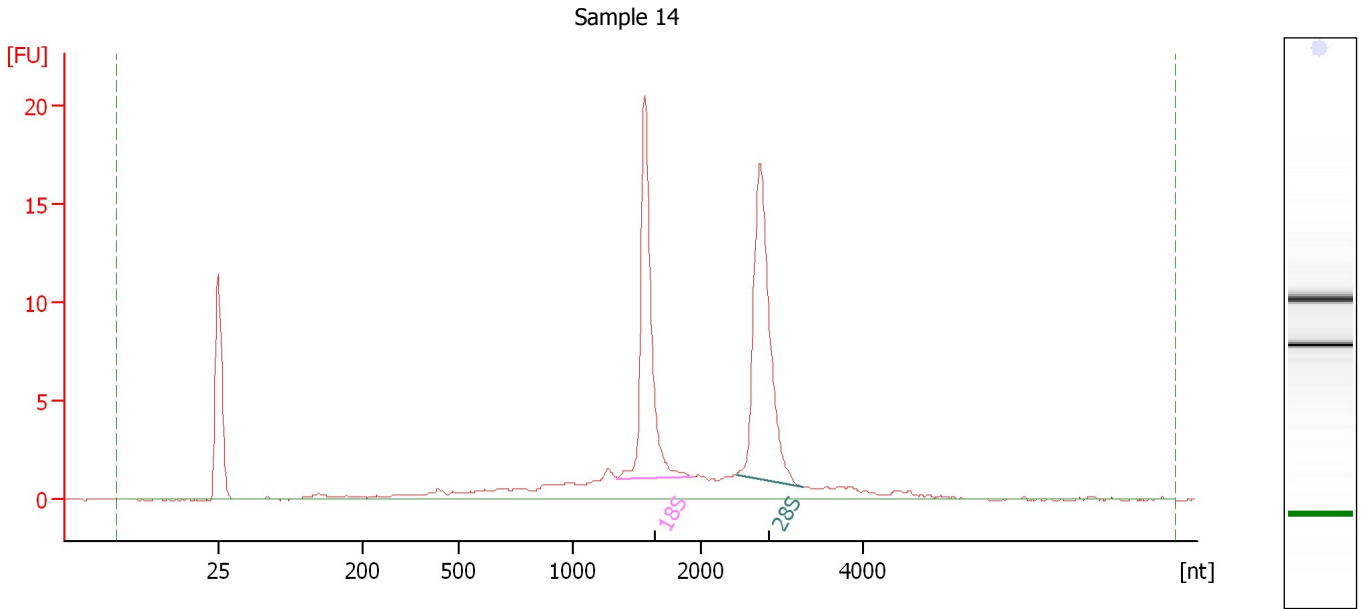
**Fragment table for sample 1 : Sample 13**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,481	1,851	8.3	19.0
28S	2,496	3,427	12.0	27.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 14**

RNA Area:	95.0	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	51 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:9

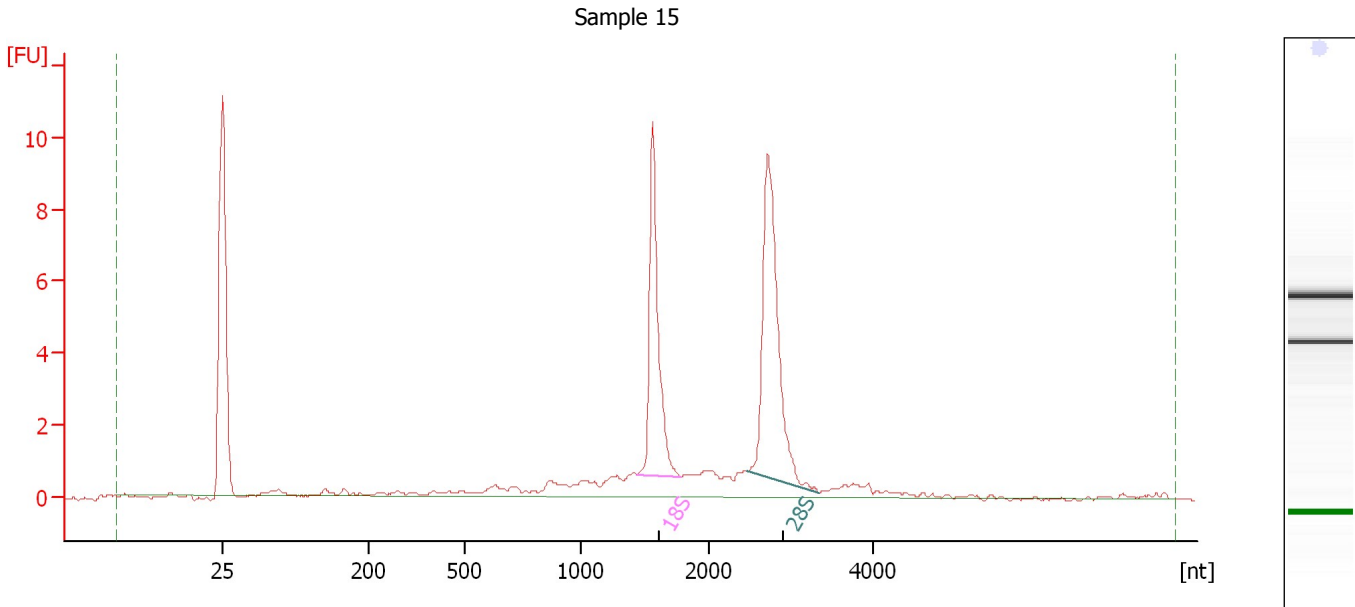
**Fragment table for sample 2 : Sample 14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,346	1,937	23.6	24.8
28S	2,442	3,261	27.9	29.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 15**

RNA Area:	46.0	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	25 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: 8.90

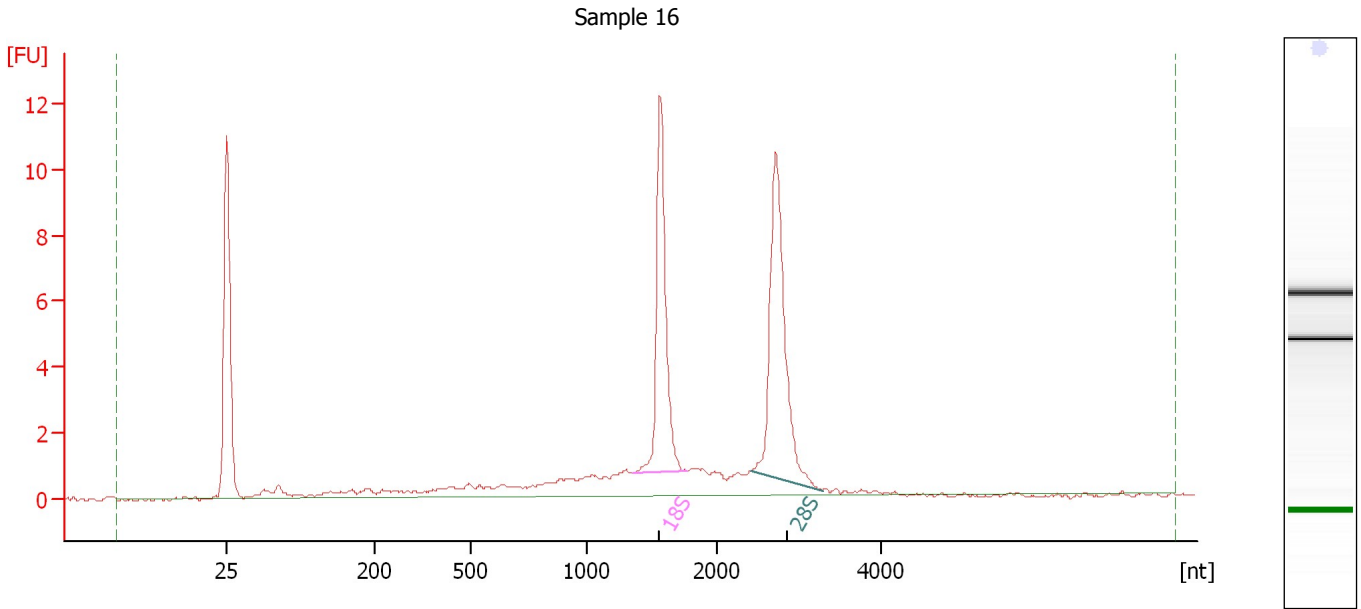
**Fragment table for sample 3 : Sample 15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,444	1,783	10.5	22.8
28S	2,469	3,346	14.7	31.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 16**

RNA Area:	54.1	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	29 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: 8.60

**Fragment table for sample 4 : Sample 16**

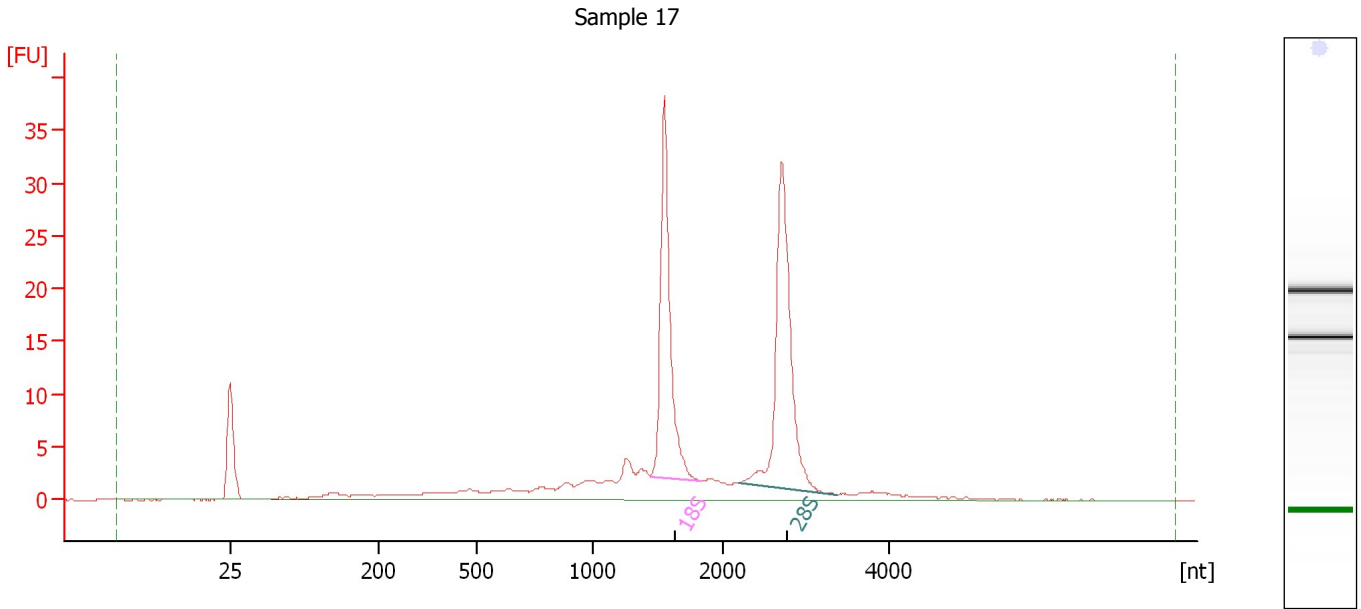
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,353	1,771	12.1	22.4
28S	2,416	3,274	15.4	28.6



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 17**

RNA Area:	166.1	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	90 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: 8.40

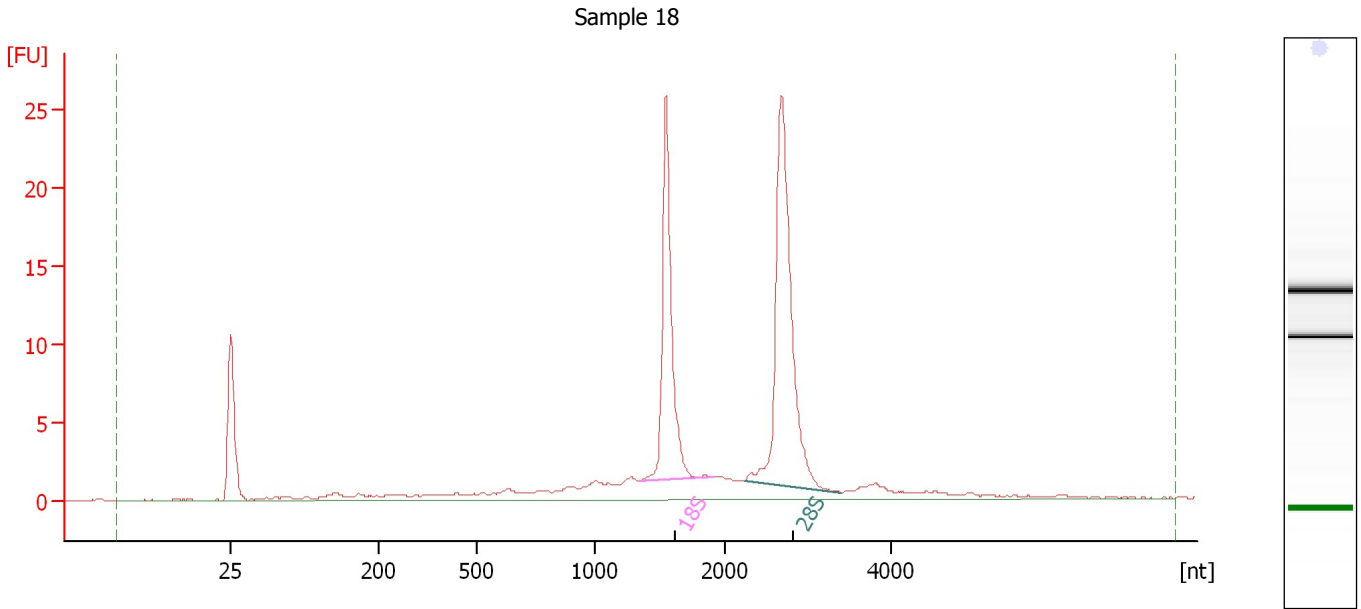
**Fragment table for sample 5 : Sample 17**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,440	1,831	40.0	24.1
28S	2,197	3,359	47.8	28.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



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

RNA Area: 116.7                      RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 63 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5                      Result Flagging Label: RIN: 9.30

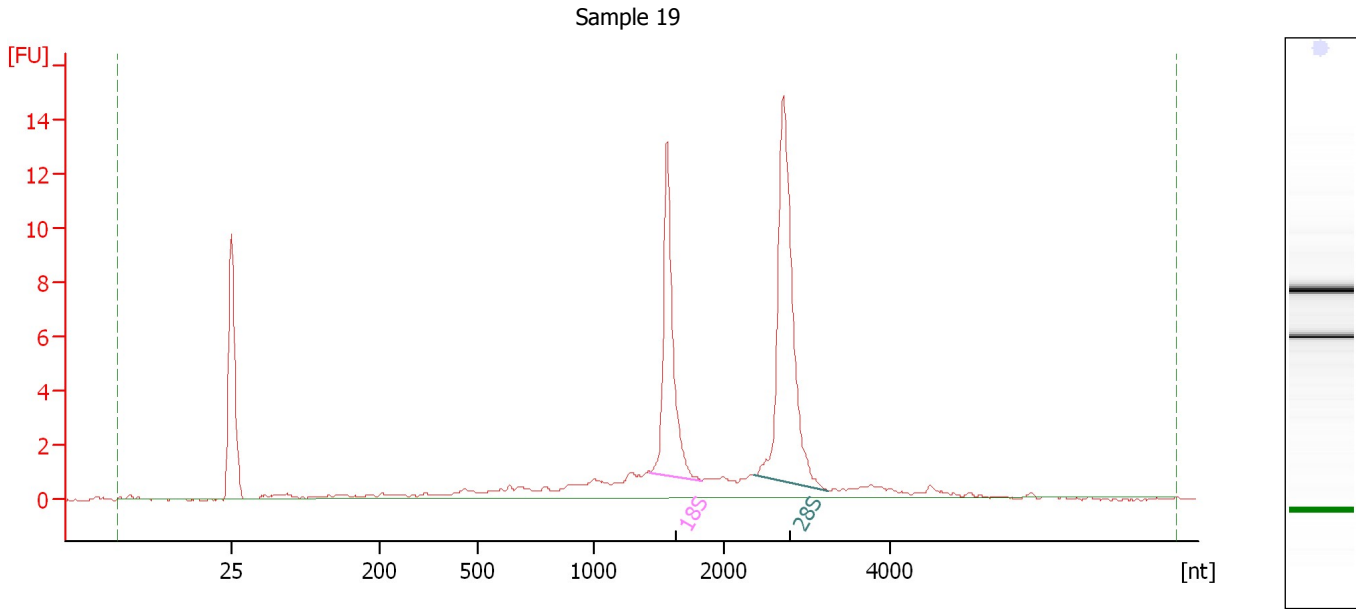
**Fragment table for sample 6 : Sample 18**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,344	1,897	26.7	22.9
28S	2,223	3,396	41.3	35.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



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

RNA Area: 65.3                      RNA Integrity Number (RIN): 8.9 (B.02.08)  
RNA Concentration: 35 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6              Result Flagging Label: RIN: 8.90

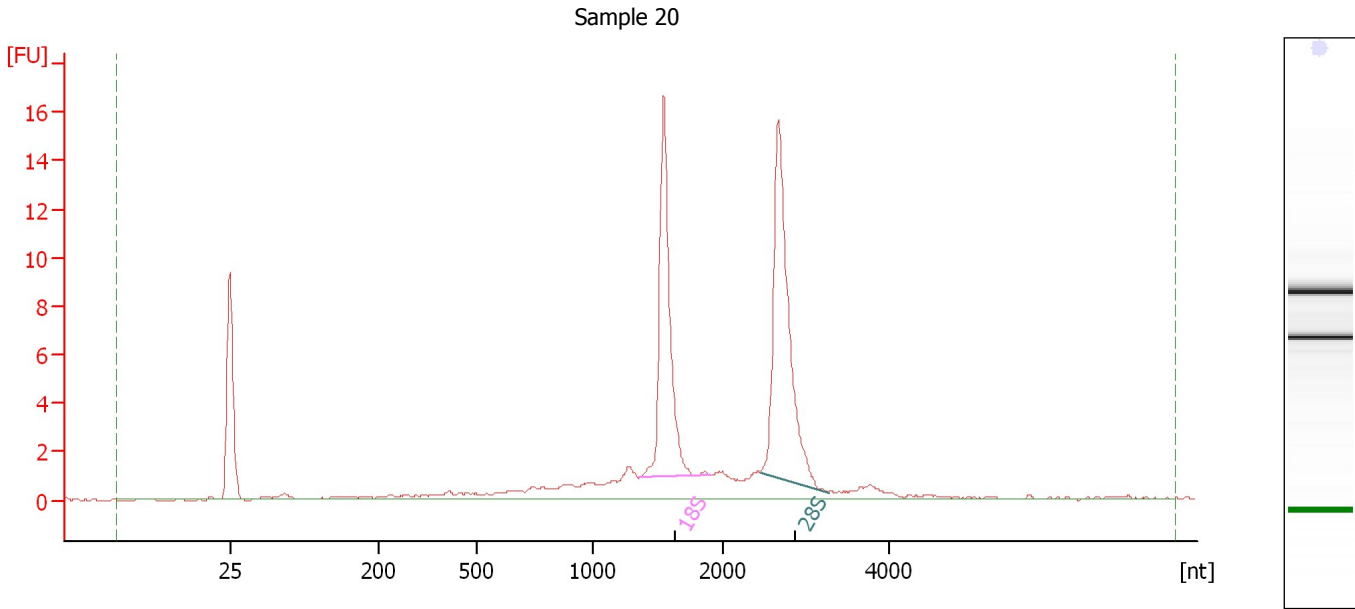
**Fragment table for sample 7 : Sample 19**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,432	1,823	13.8	21.2
28S	2,365	3,256	22.3	34.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 20**

RNA Area:	74.8	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	40 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: 9.10

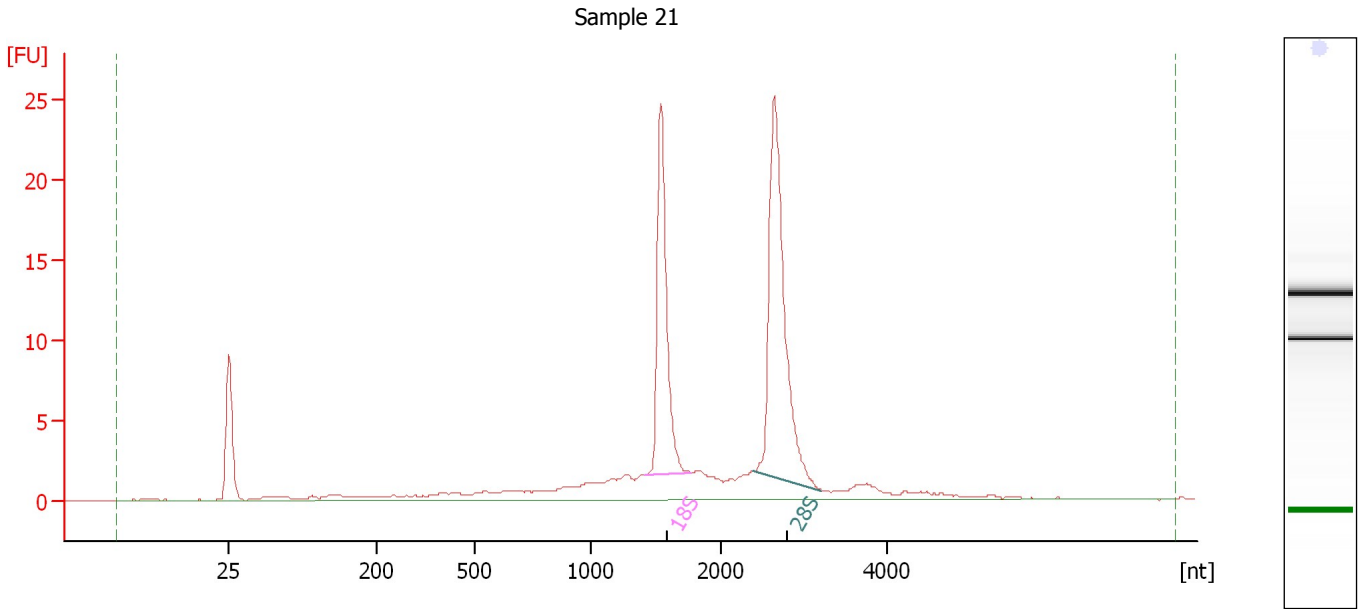
**Fragment table for sample 8 : Sample 20**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,358	1,904	18.8	25.2
28S	2,442	3,269	23.9	31.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 21**

RNA Area: 119.3 RNA Integrity Number (RIN): 8.9 (B.02.08)  
RNA Concentration: 65 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.90

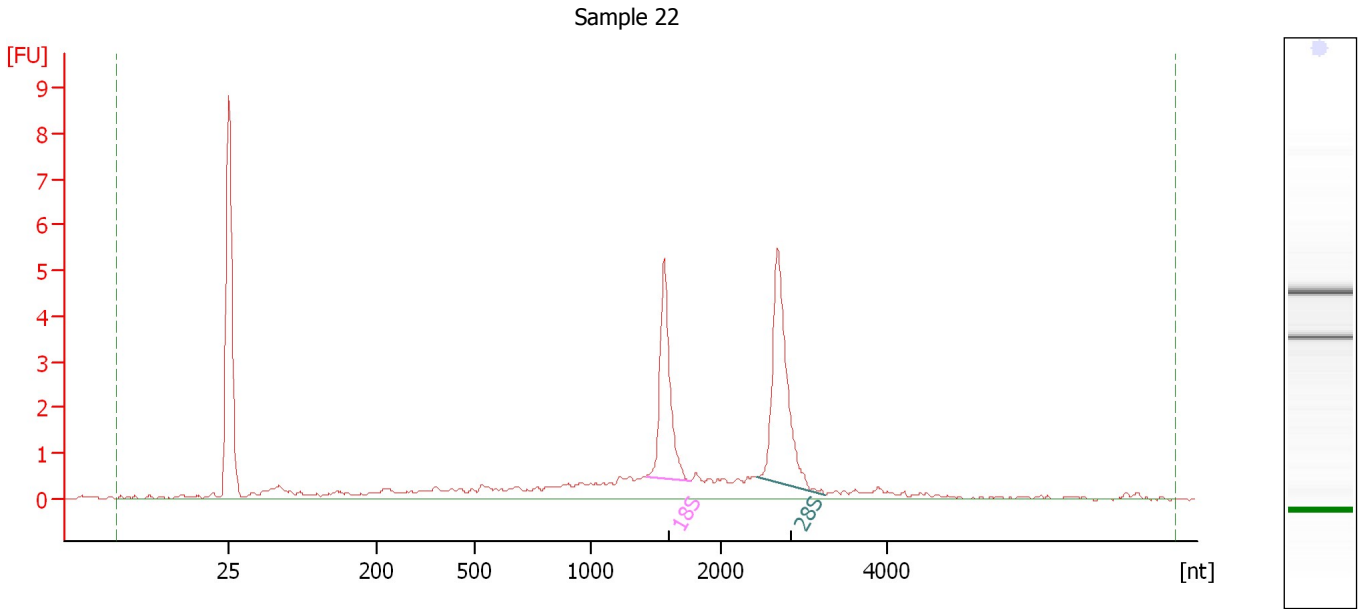
**Fragment table for sample 9 : Sample 21**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,414	1,773	25.0	20.9
28S	2,391	3,206	38.4	32.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 22**

RNA Area:	33.2	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	18 ng/ $\mu$ 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]:	1.4	Result Flagging Label:	RIN: 8.40

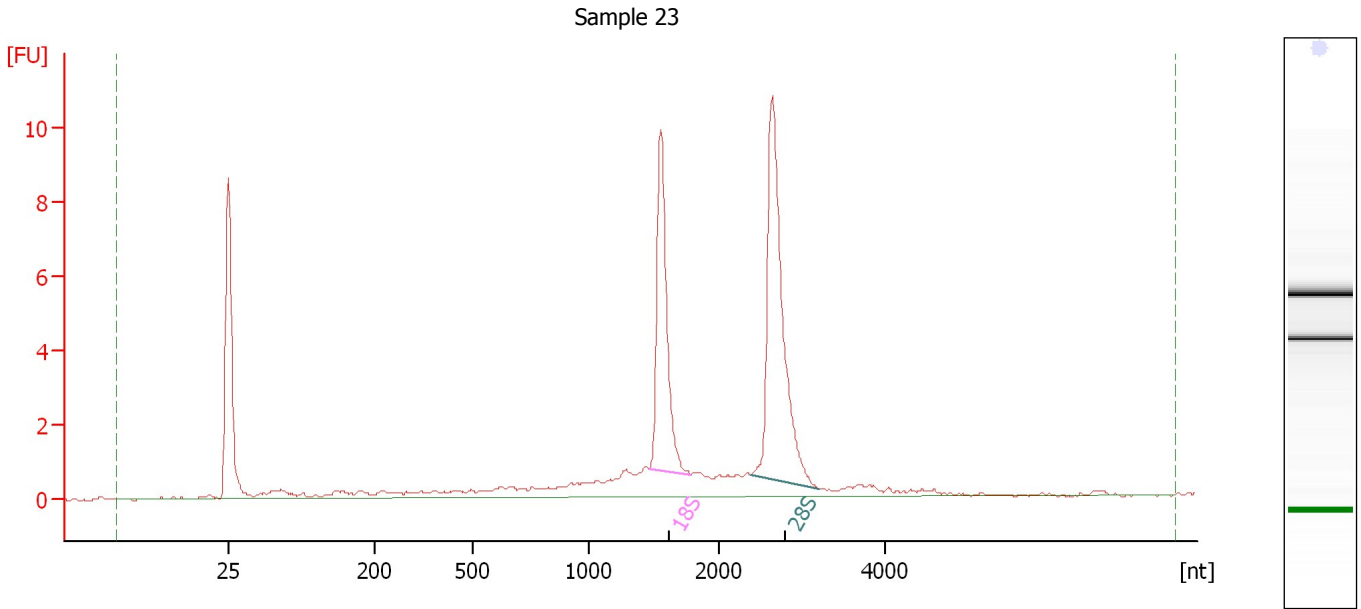
**Fragment table for sample 10 : Sample 22**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,422	1,765	5.6	16.8
28S	2,417	3,257	7.9	23.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sample 23**

RNA Area: 49.5      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 27 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5      Result Flagging Label: RIN:9

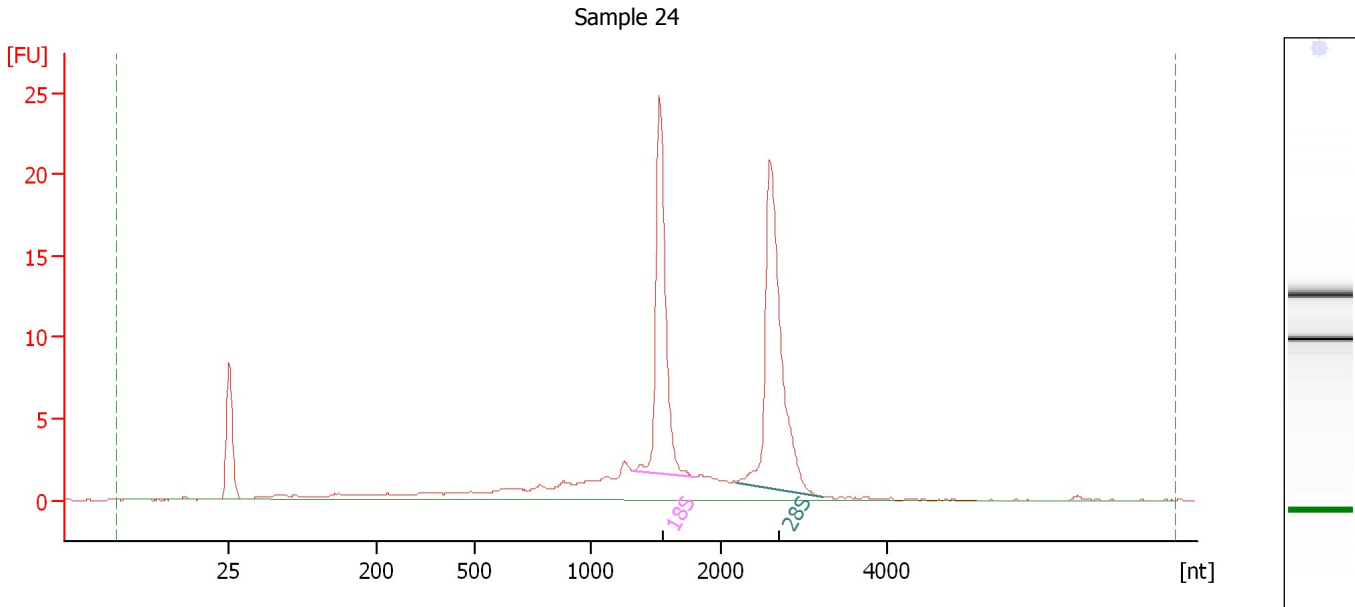
**Fragment table for sample 11 : Sample 23**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,461	1,780	10.6	21.3
28S	2,378	3,207	16.2	32.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
Modified: 9/10/2015 11:59:28 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Sample 24**

RNA Area:	108.7	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	59 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: 8.70

**Fragment table for sample 12 : Sample 24**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,324	1,789	26.2	24.1
28S	2,184	3,231	33.6	30.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-09-10\2015-09-10\_002.xad

Created: 9/10/2015 11:36:25 AM  
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**Gel Image**

