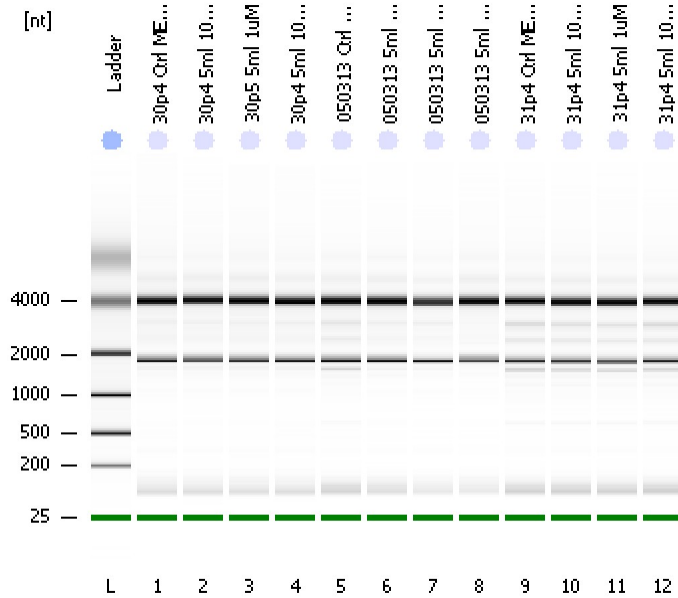


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 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

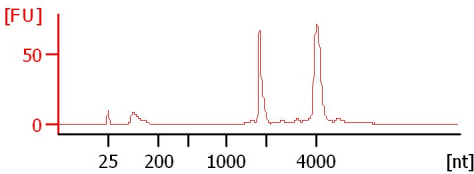
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

© Copyright 2003 - 2009 Agilent Technologies, Inc.

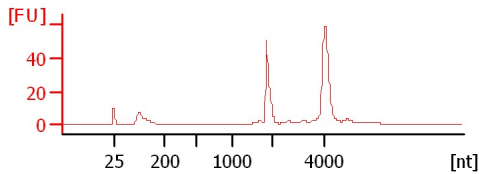
Chip Information:

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

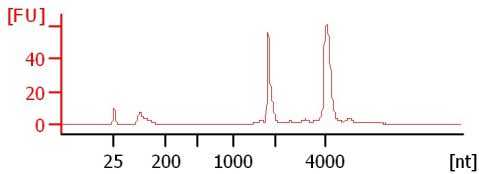
**30p4 Ctrl MEMa**  
RIN: 9.80



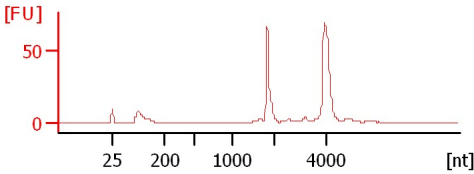
**30p4 5ml 100nM**  
RIN: 10



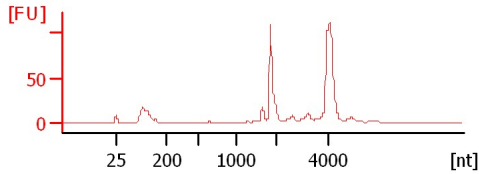
**30p5 5ml 1uM**  
RIN: 9.90



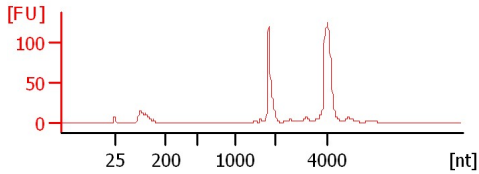
**30p4 5ml 10uM**  
RIN: 9.80



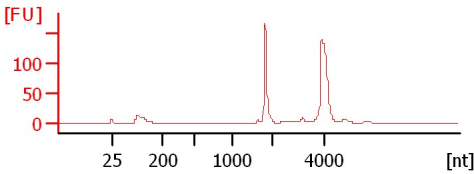
**050313 Ctrl MEMa**  
RIN: 9.50



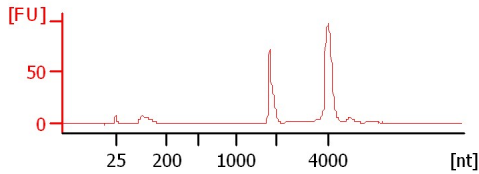
**050313 5ml 100nM**  
RIN: 9.80



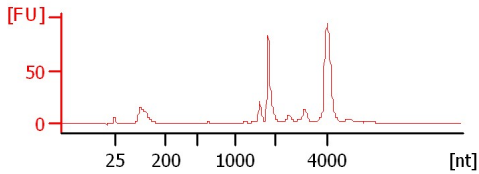
**050313 5ml 1uM**  
RIN: 9.80



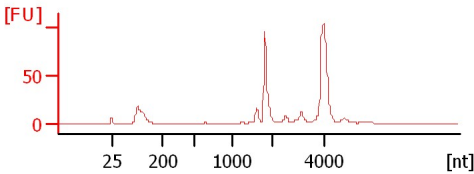
**050313 5ml 10uM**  
RIN: 10



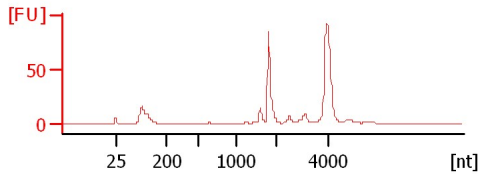
**31p4 Ctrl MEMa**  
RIN: 9.40



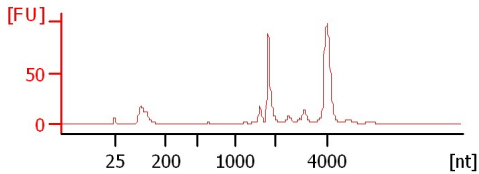
**31p4 5ml 100nM**  
RIN: 9.50



**31p4 5ml 1uM**  
RIN: 9.50



**31p4 5ml 10uM**  
RIN: 9.40



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
30p4 Ctrl MEMa		✓	RIN: 9.80	
30p4 5ml 100nM		✓	RIN:10	
30p5 5ml 1uM		✓	RIN: 9.90	
30p4 5ml 10uM		✓	RIN: 9.80	
050313 Ctrl MEMa		✓	RIN: 9.50	
050313 5ml 100nM		✓	RIN: 9.80	
050313 5ml 1uM		✓	RIN: 9.80	
050313 5ml 10uM		✓	RIN:10	
31p4 Ctrl MEMa		✓	RIN: 9.40	
31p4 5ml 100nM		✓	RIN: 9.50	
31p4 5ml 1uM		✓	RIN: 9.50	
31p4 5ml 10uM		✓	RIN: 9.40	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 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

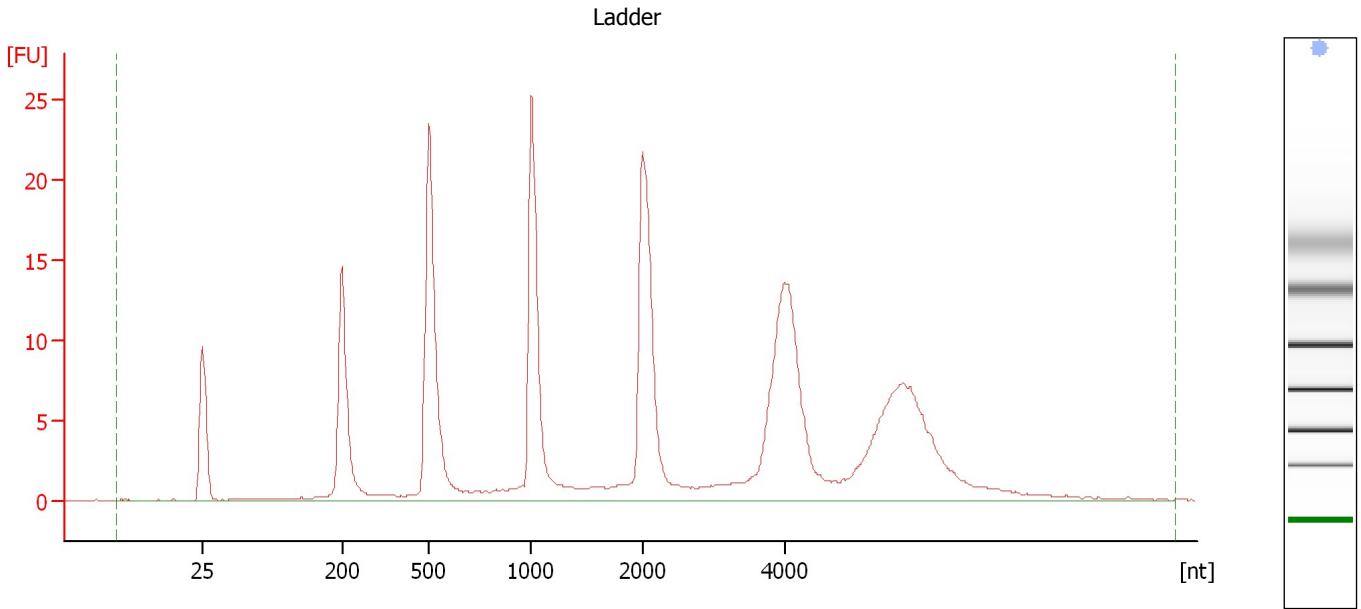
### Ladder

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\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary**



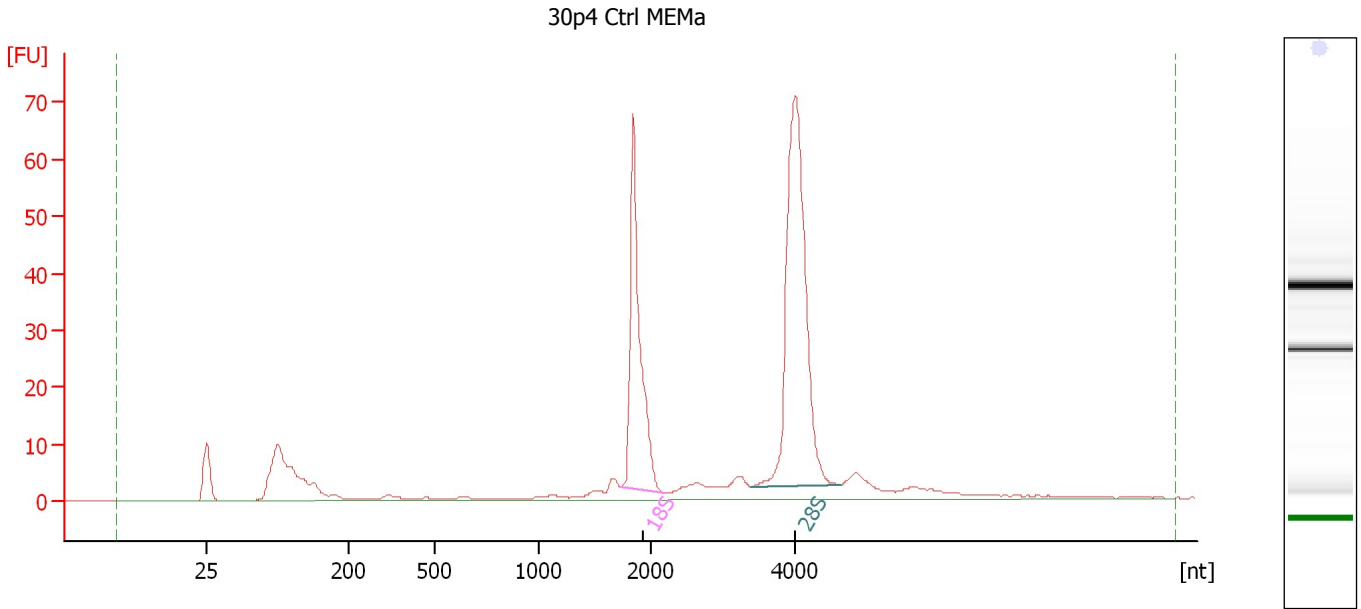
**Overall Results for Ladder**

RNA Area:	239.1	Result Flagging Color:	<span style="background-color: blue; 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\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 30p4 Ctrl MEMa**

RNA Area: 361.5                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 227 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 9.80

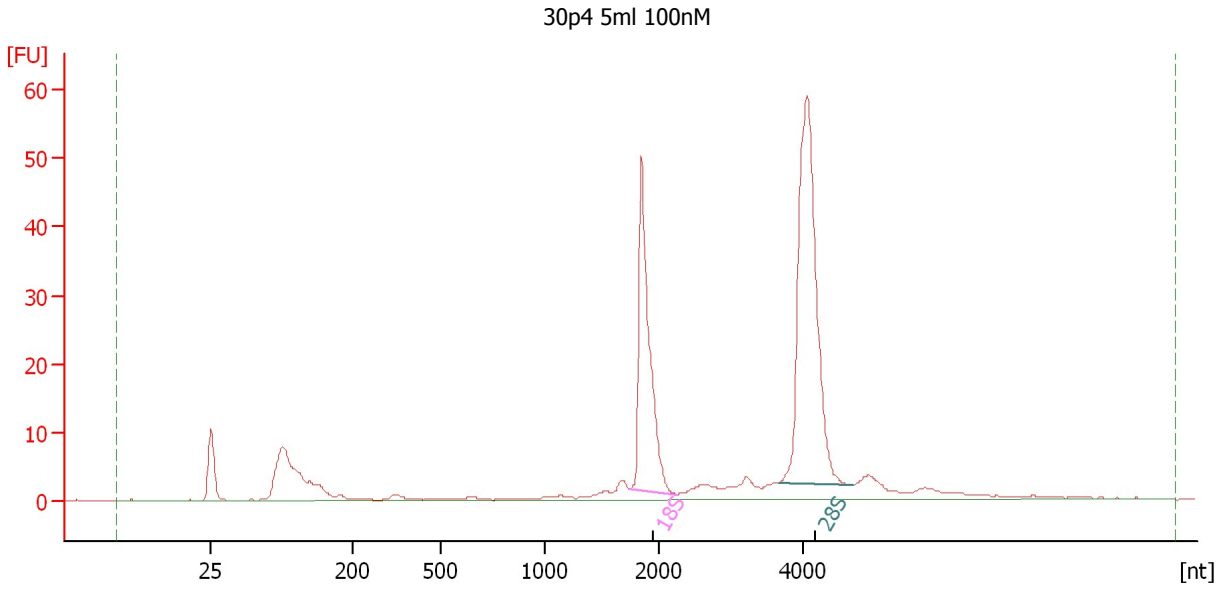
**Fragment table for sample 1 : 30p4 Ctrl MEMa**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	2,186	76.9	21.3
28S	3,408	4,646	136.1	37.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
 Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 30p4 5ml 100nM**

RNA Area:	276.5	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	173 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]:	1.8	Result Flagging Label:	RIN:10

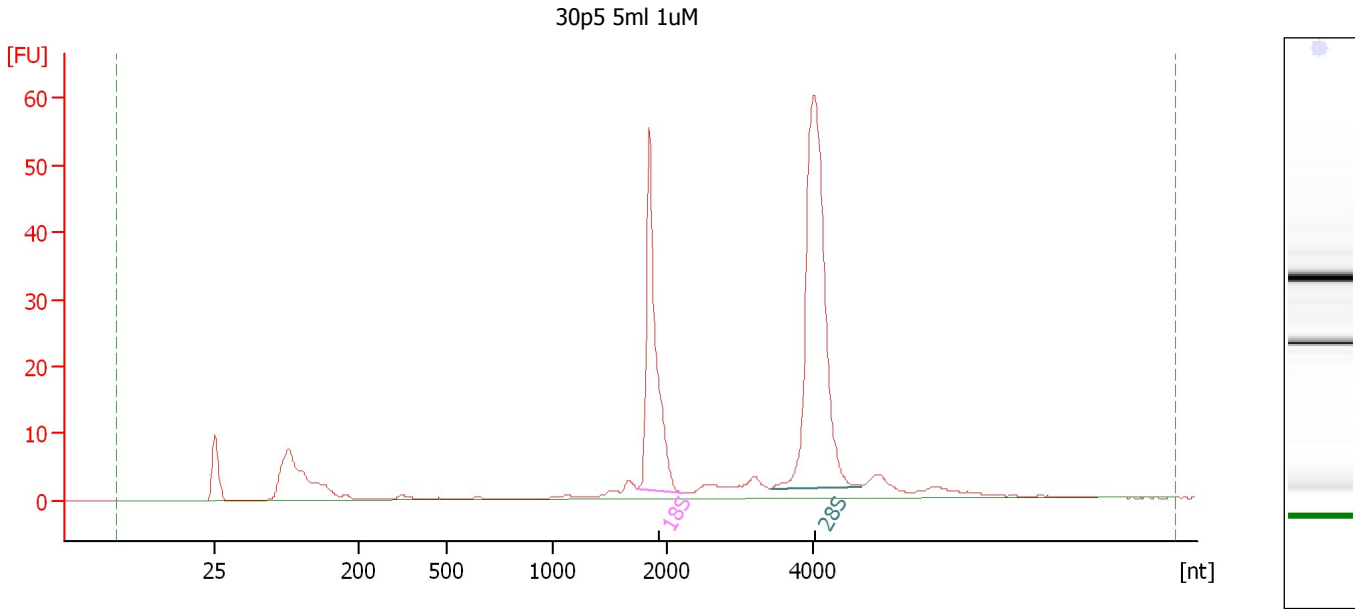
**Fragment table for sample 2 : 30p4 5ml 100nM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,744	2,251	60.0	21.7
28S	3,655	4,676	105.4	38.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 30p5 5ml 1uM**

RNA Area: 275.5                      RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 173 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9                      Result Flagging Label: RIN: 9.90

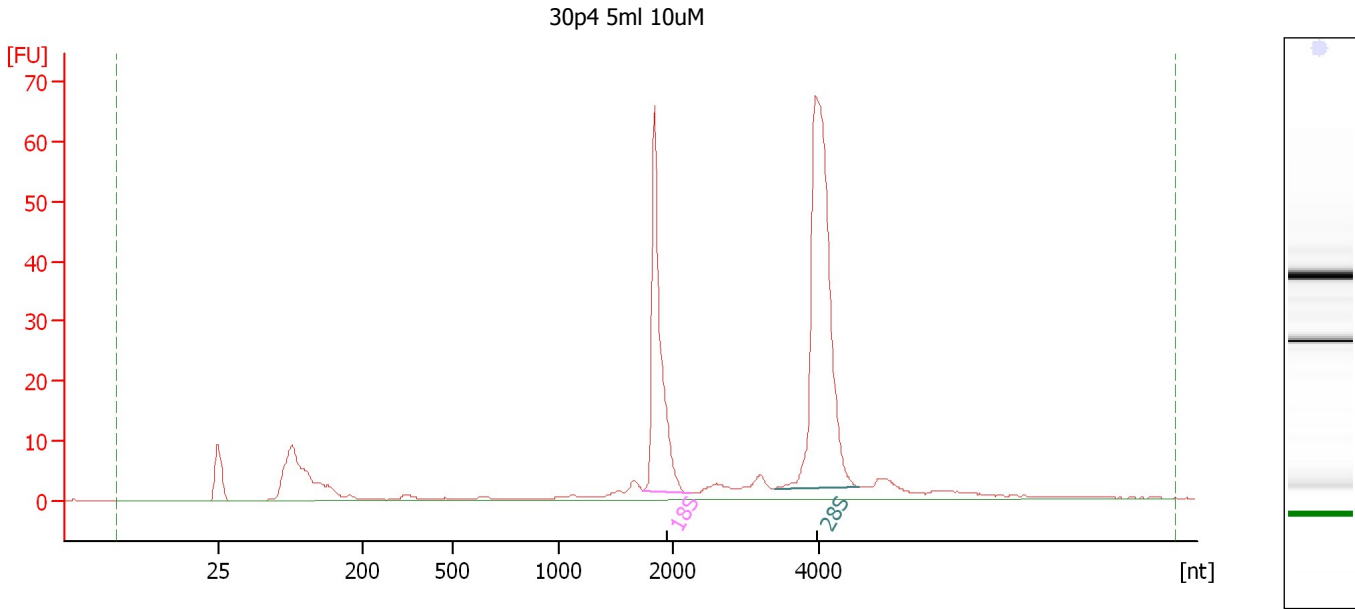
**Fragment table for sample 3 : 30p5 5ml 1uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,741	2,226	60.7	22.0
28S	3,429	4,675	113.4	41.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 30p4 5ml 10uM**

RNA Area: 305.6                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 192 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN: 9.80

**Fragment table for sample 4 : 30p4 5ml 10uM**

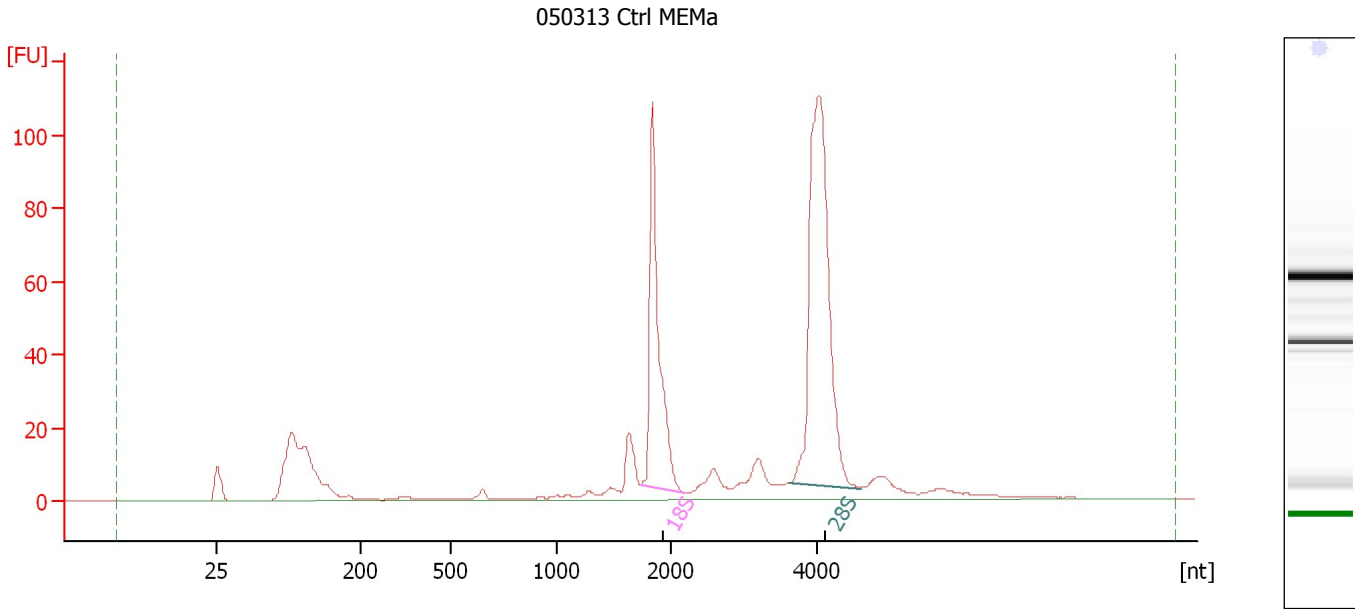
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,737	2,245	67.4	22.1
28S	3,396	4,548	124.9	40.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 050313 Ctrl MEMa**

RNA Area: 593.7                      RNA Integrity Number (RIN): 9.5 (B.02.08,  
RNA Concentration: 372 ng/μl                      Anomaly Threshold(s)  
rRNA Ratio [28s / 18s]: 1.8                      manually adapted)  
Result Flagging Color:   
Result Flagging Label: RIN: 9.50

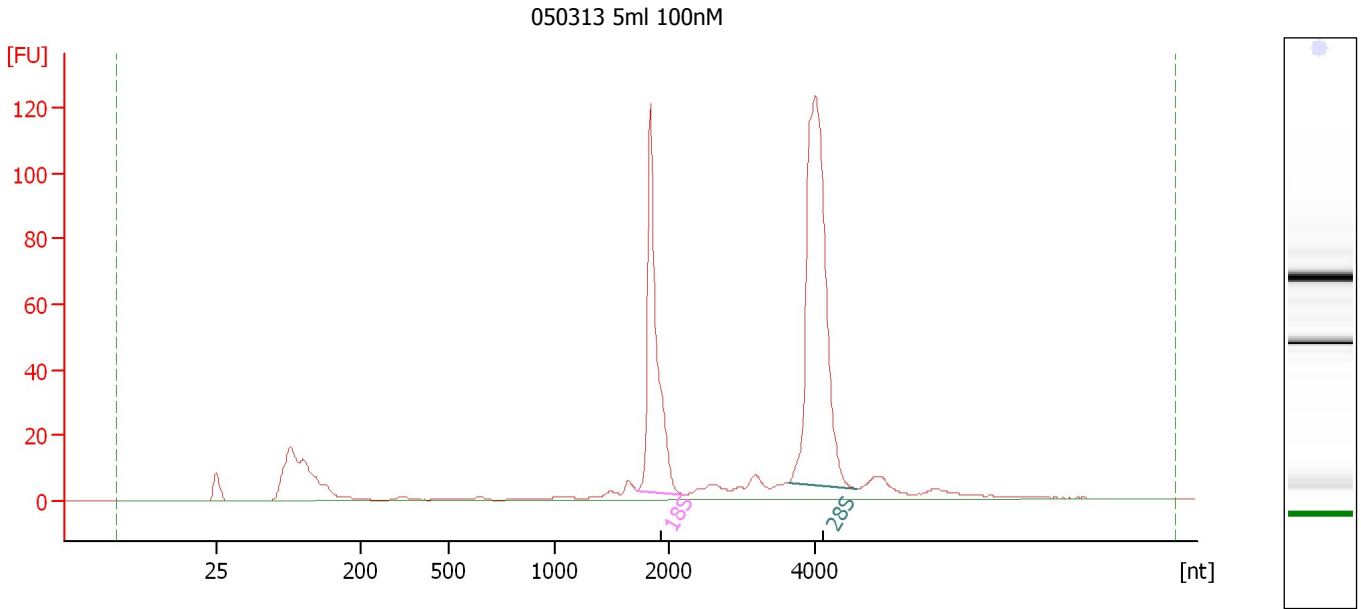
**Fragment table for sample 5 : 050313 Ctrl MEMa**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,736	2,185	116.4	19.6
28S	3,616	4,595	214.0	36.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 050313 5ml 100nM**

RNA Area: 592.9                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 372 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8                      Result Flagging Label: RIN: 9.80

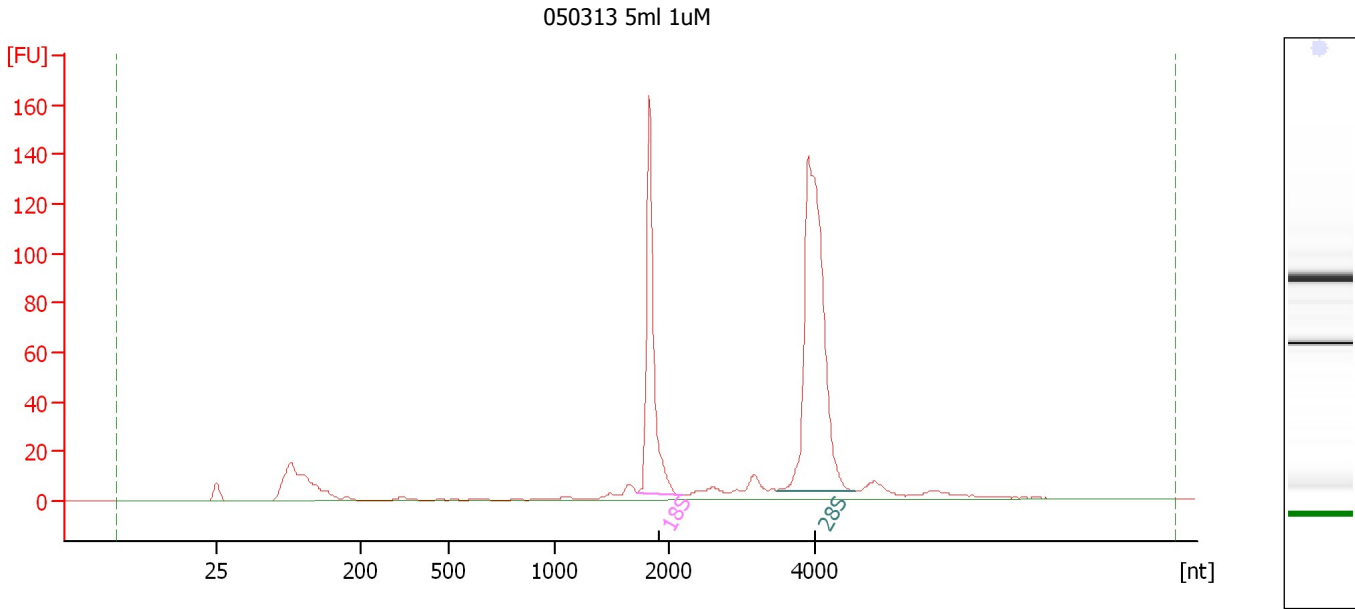
**Fragment table for sample 6 : 050313 5ml 100nM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	2,213	131.2	22.1
28S	3,633	4,569	237.3	40.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 050313 5ml 1uM**

RNA Area: 626.3                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 393 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9                      Result Flagging Label: RIN: 9.80

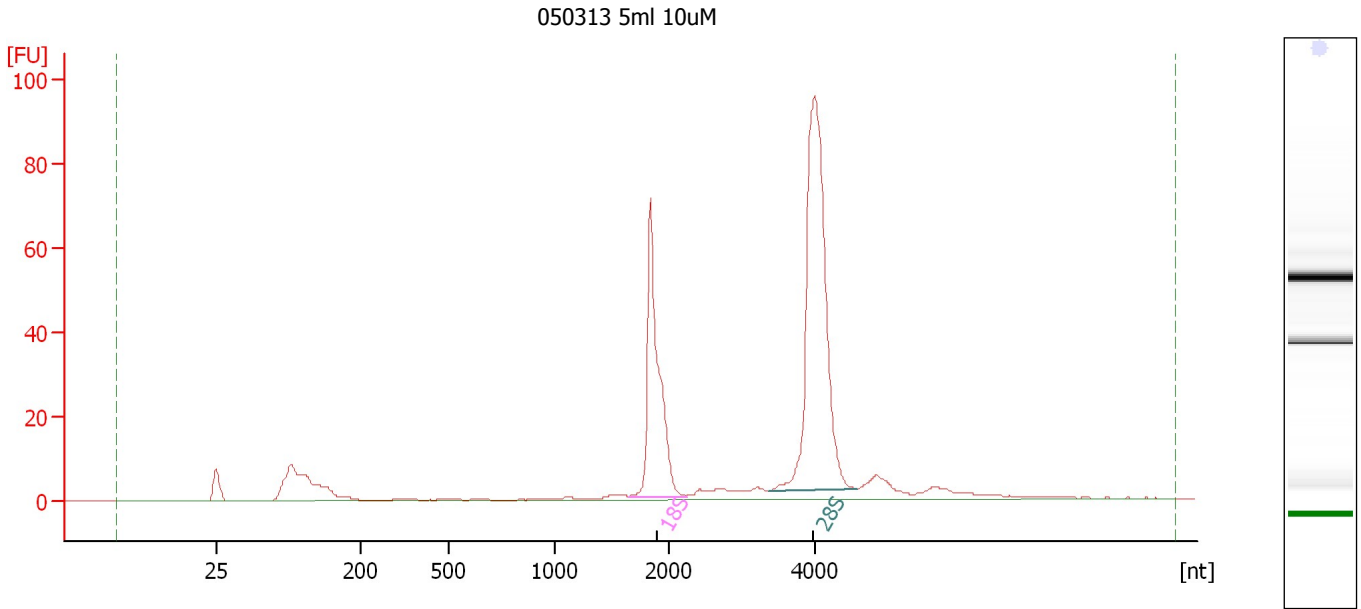
**Fragment table for sample 7 : 050313 5ml 1uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	2,184	139.7	22.3
28S	3,472	4,540	264.9	42.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 050313 5ml 10uM**

RNA Area: 395.7 RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 248 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

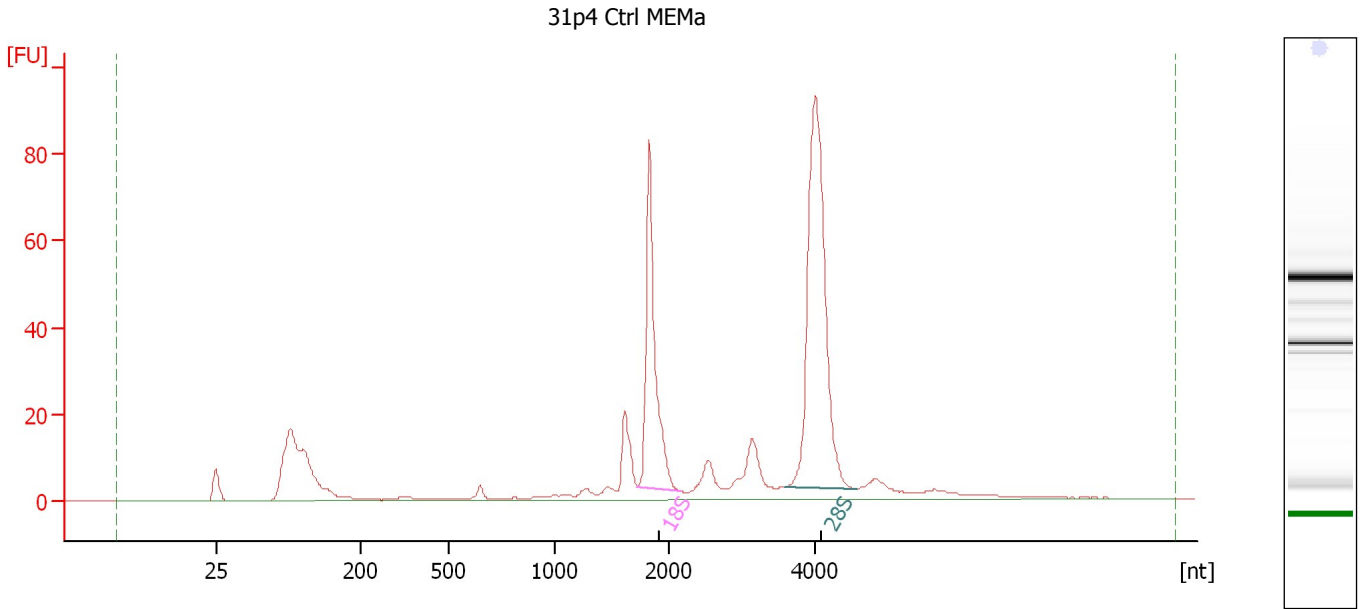
**Fragment table for sample 8 : 050313 5ml 10uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	2,242	92.0	23.3
28S	3,369	4,569	183.6	46.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
 Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 31p4 Ctrl MEMa**

RNA Area:	477.5	RNA Integrity Number (RIN):	9.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	299 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]:	1.9	Result Flagging Label:	RIN: 9.40

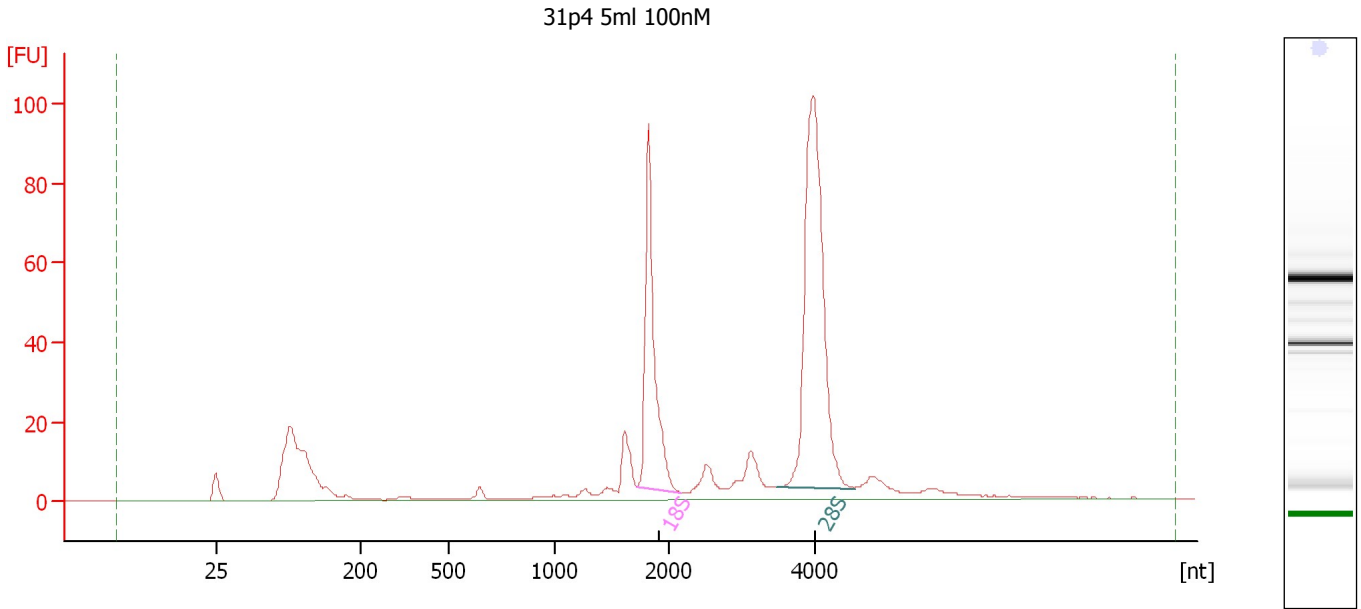
**Fragment table for sample 9 : 31p4 Ctrl MEMa**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	2,169	84.6	17.7
28S	3,603	4,569	160.8	33.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
 Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 31p4 5ml 100nM**

RNA Area:	520.1	RNA Integrity Number (RIN):	9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	326 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]:	1.9	Result Flagging Label:	RIN: 9.50

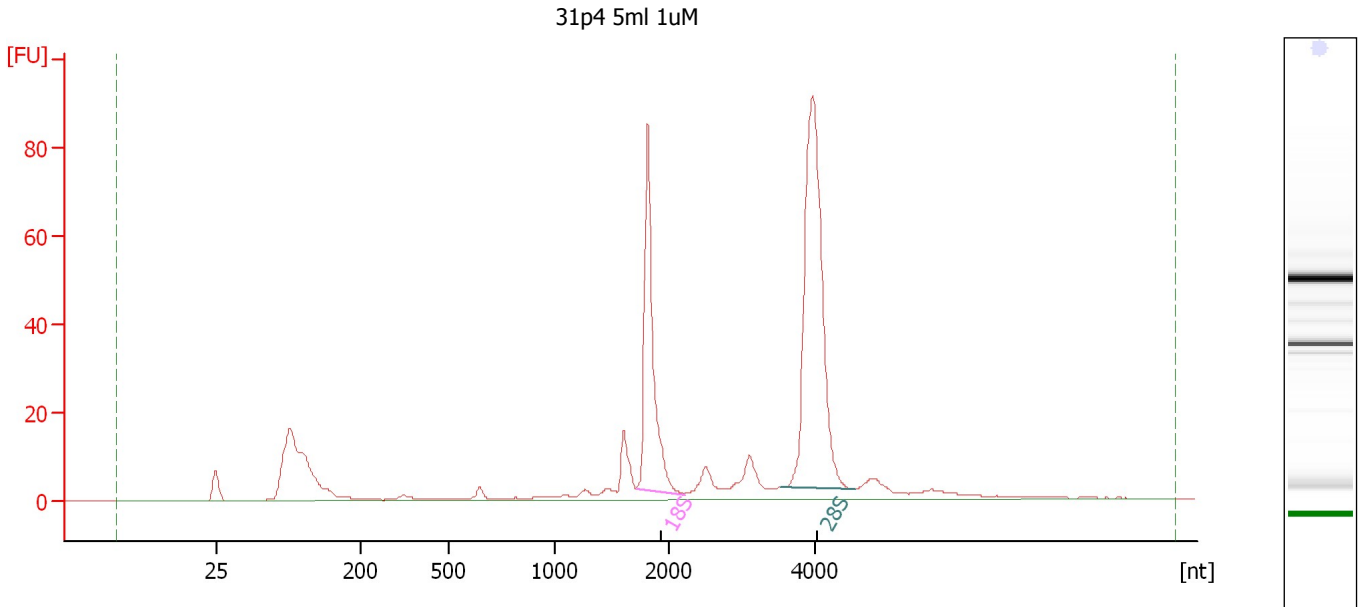
**Fragment table for sample 10 : 31p4 5ml 100nM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	2,155	96.7	18.6
28S	3,472	4,540	187.1	36.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
 Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 31p4 5ml 1uM**

RNA Area:	450.9	RNA Integrity Number (RIN):	9.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	283 ng/μl		
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 9.50

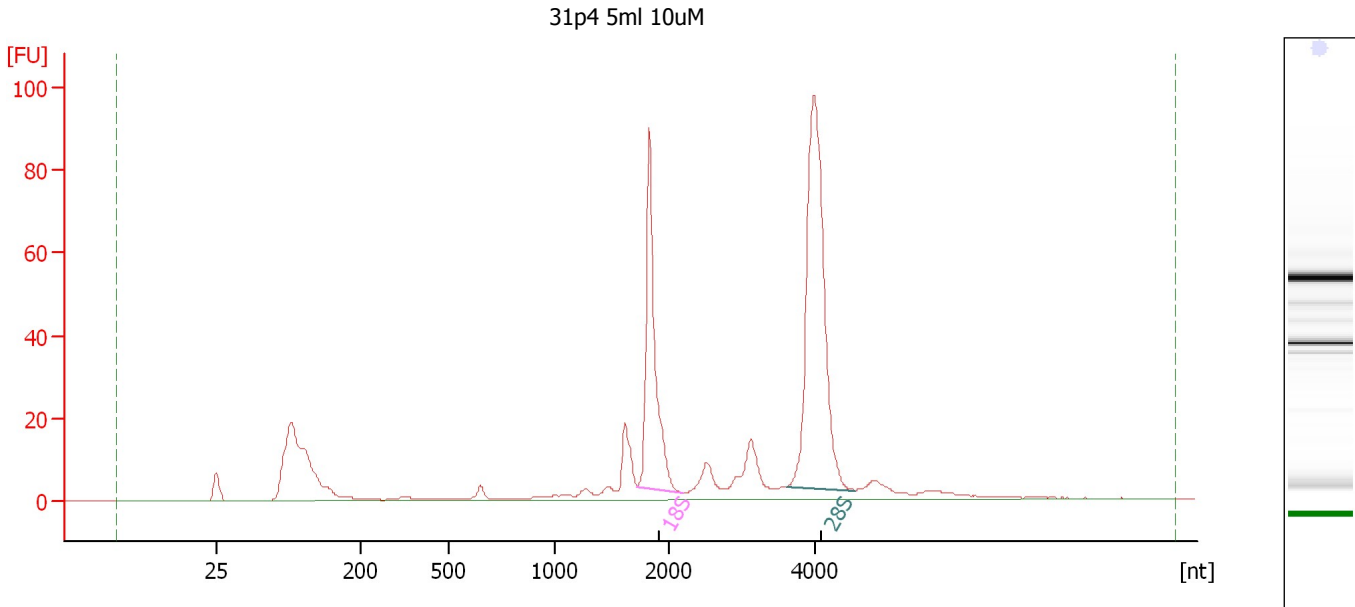
**Fragment table for sample 11 : 31p4 5ml 1uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,715	2,213	83.4	18.5
28S	3,530	4,554	161.3	35.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
 Modified: 10/25/2013 1:33:36 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 31p4 5ml 10uM**

RNA Area:	498.6	RNA Integrity Number (RIN):	9.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	313 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]:	1.9	Result Flagging Label:	RIN: 9.40

**Fragment table for sample 12 : 31p4 5ml 10uM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	2,184	90.2	18.1
28S	3,618	4,554	169.9	34.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-25\2013-10-25\_002.xad

Created: 10/25/2013 1:04:06 PM  
Modified: 10/25/2013 1:33:36 PM

**Gel Image**

