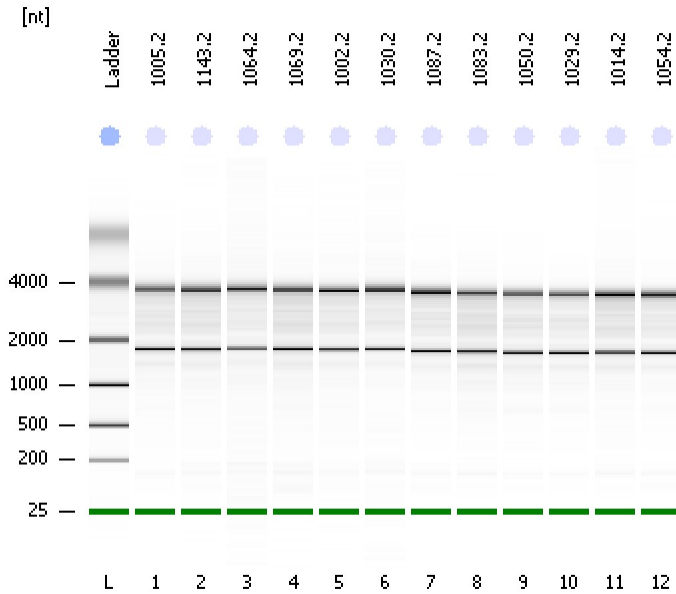


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

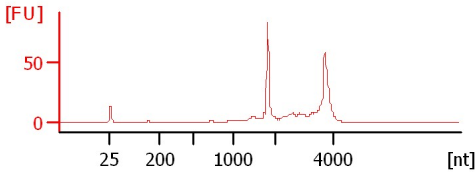
Assay Information:

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.

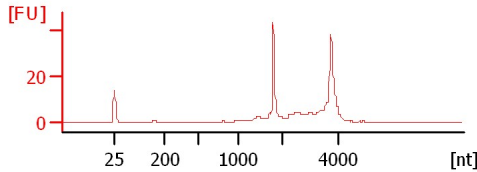
Chip Information:

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

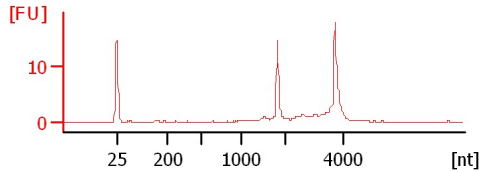
**1005.2**  
dil 1:2  
RIN: 8.90



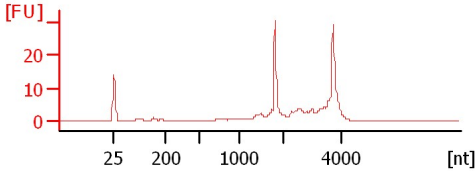
**1143.2**  
dil 1:2  
RIN: 9



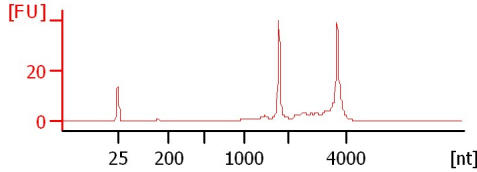
**1064.2**  
dil 1:2  
RIN: 9



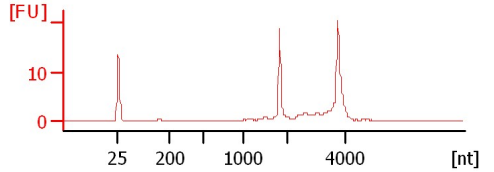
**1069.2**  
dil 1:2  
RIN: 8.80



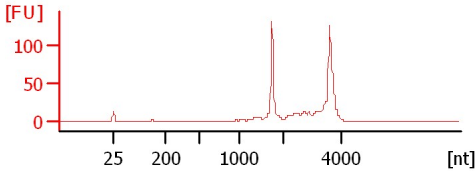
**1002.2**  
dil 1:2  
RIN: 9



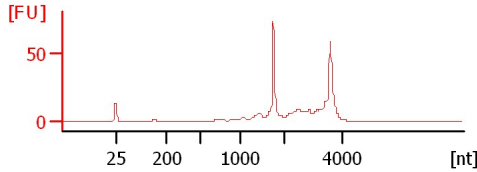
**1030.2**  
dil 1:2  
RIN: 9.60



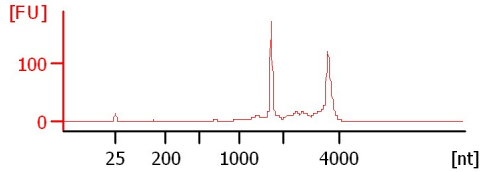
**1087.2**  
dil 1:2  
RIN: 9.20



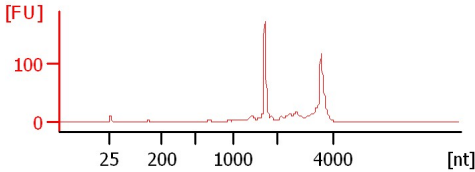
**1083.2**  
dil 1:2  
RIN: 8.40



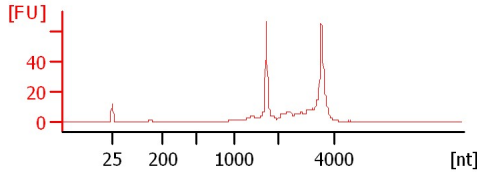
**1050.2**  
dil 1:2  
RIN: 8.50



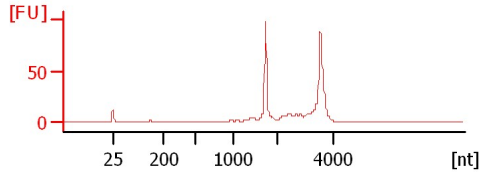
**1029.2**  
dil 1:2  
RIN: 8.80



**1014.2**  
dil 1:2  
RIN: 9.10



**1054.2**  
dil 1:2  
RIN: 9.30



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
 Modified: 10/9/2015 12:27:28 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
1005.2	dil 1:2	✓	RIN: 8.90	
1143.2	dil 1:2	✓	RIN:9	
1064.2	dil 1:2	✓	RIN:9	
1069.2	dil 1:2	✓	RIN: 8.80	
1002.2	dil 1:2	✓	RIN:9	
1030.2	dil 1:2	✓	RIN: 9.60	
1087.2	dil 1:2	✓	RIN: 9.20	
1083.2	dil 1:2	✓	RIN: 8.40	
1050.2	dil 1:2	✓	RIN: 8.50	
1029.2	dil 1:2	✓	RIN: 8.80	
1014.2	dil 1:2	✓	RIN: 9.10	
1054.2	dil 1:2	✓	RIN: 9.30	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 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

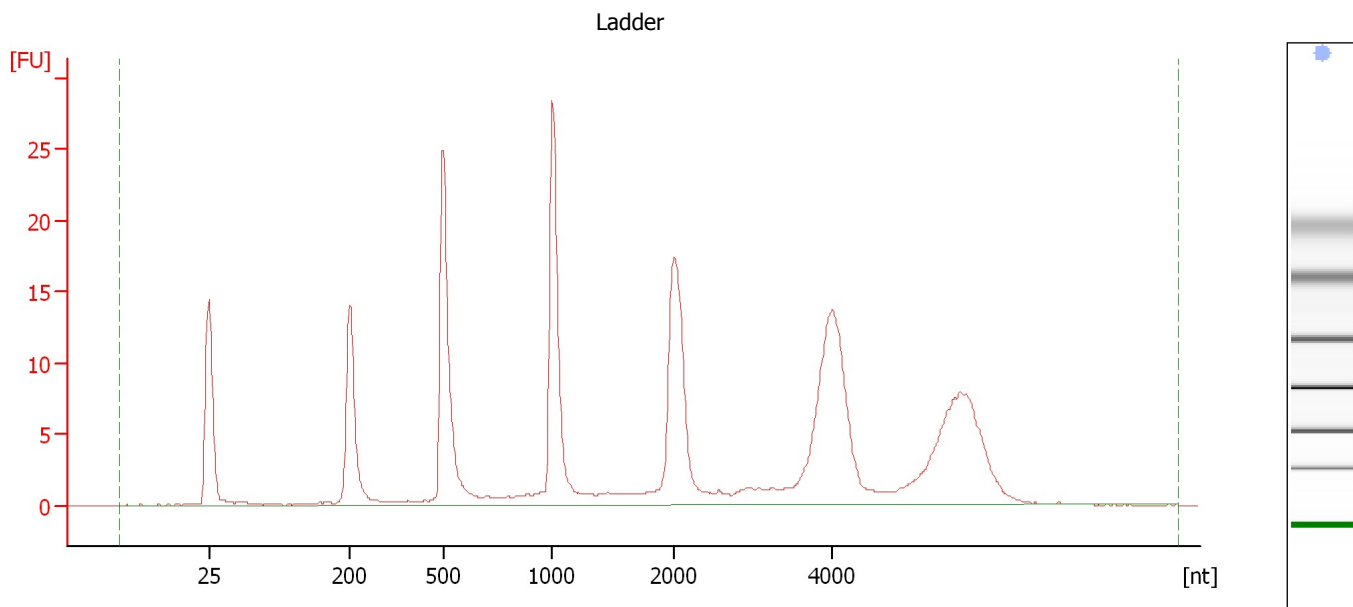
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary**



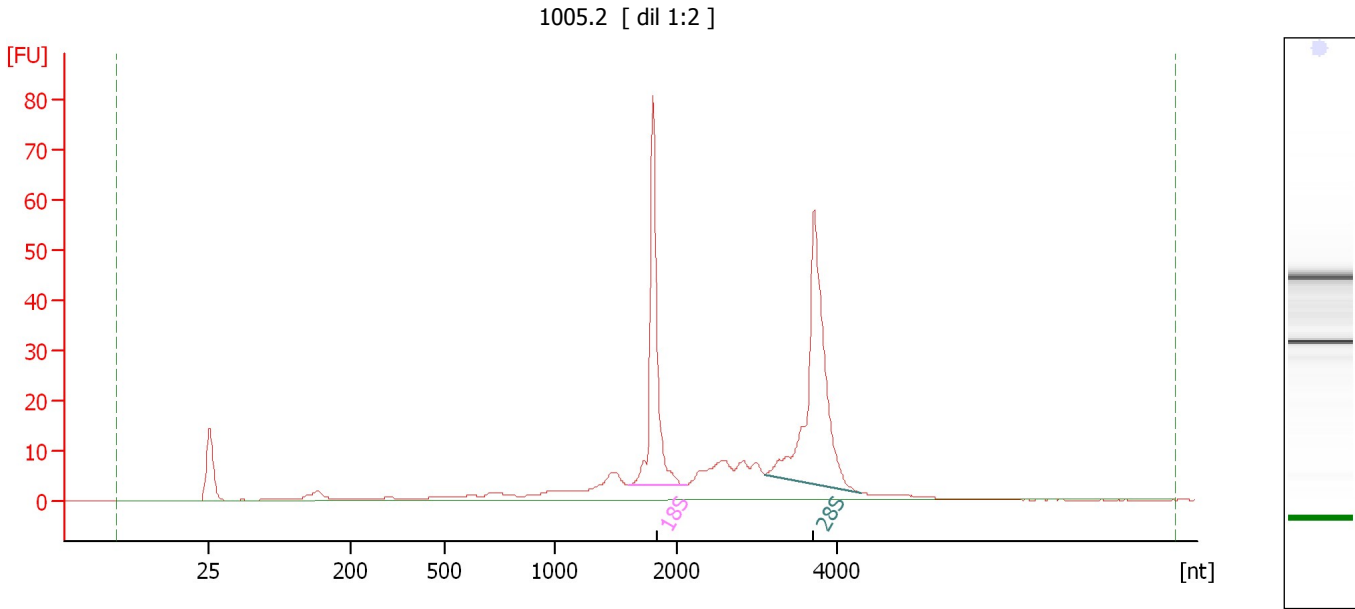
**Overall Results for Ladder**

RNA Area:	226.5	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1005.2**

RNA Area: 321.6                      RNA Integrity Number (RIN): 8.9 (B.02.08)  
RNA Concentration: 213 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4                      Result Flagging Label: RIN: 8.90

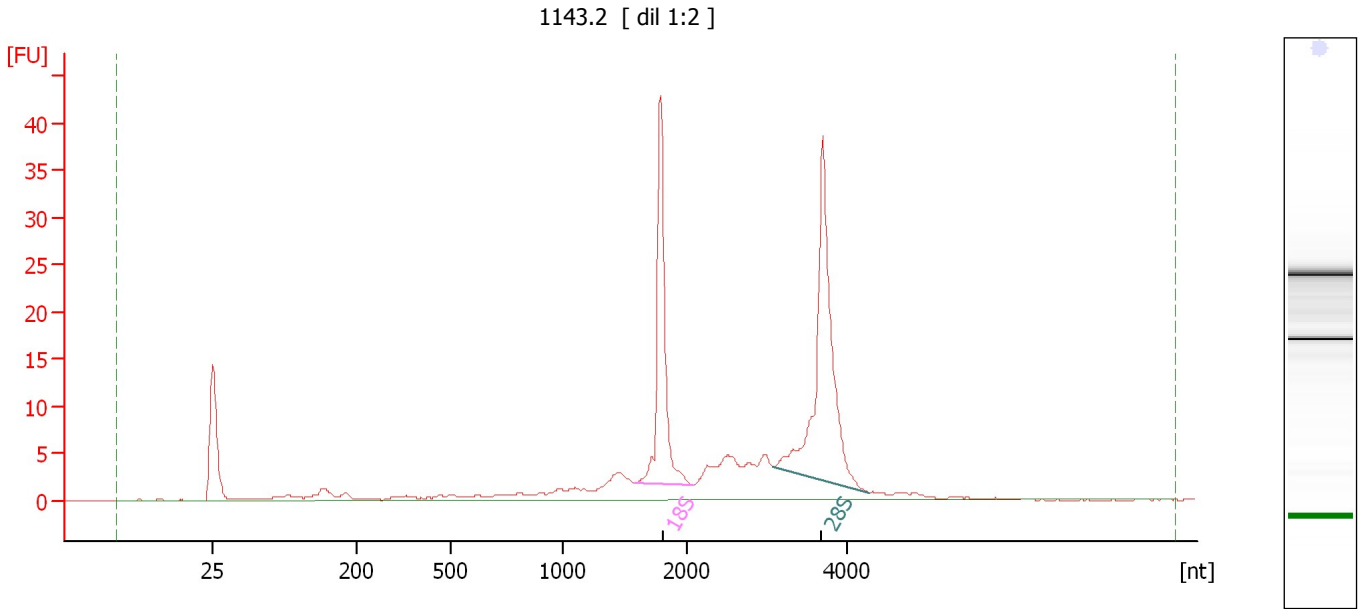
**Fragment table for sample 1 : 1005.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	2,110	68.7	21.3
28S	3,090	4,299	95.1	29.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1143.2**

RNA Area: 185.4 RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 123 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:9

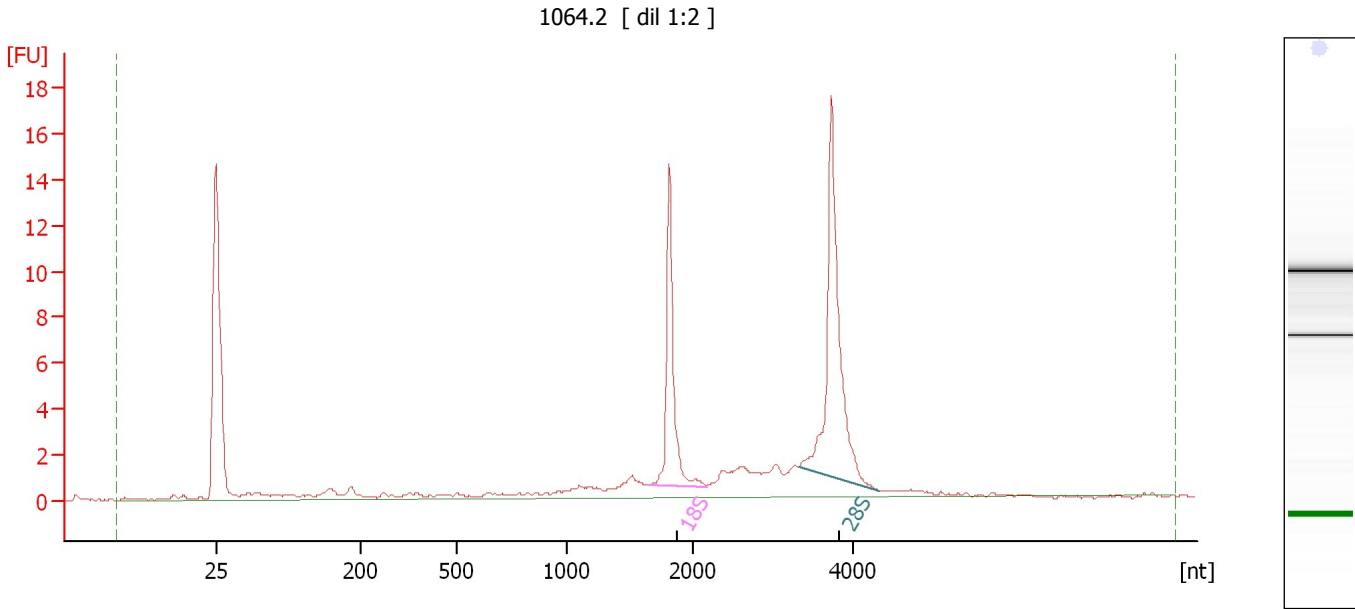
**Fragment table for sample 2 : 1143.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	2,087	36.5	19.7
28S	3,085	4,271	55.7	30.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 1064.2**

RNA Area:	67.7	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	45 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]:	1.7	Result Flagging Label:	RIN:9

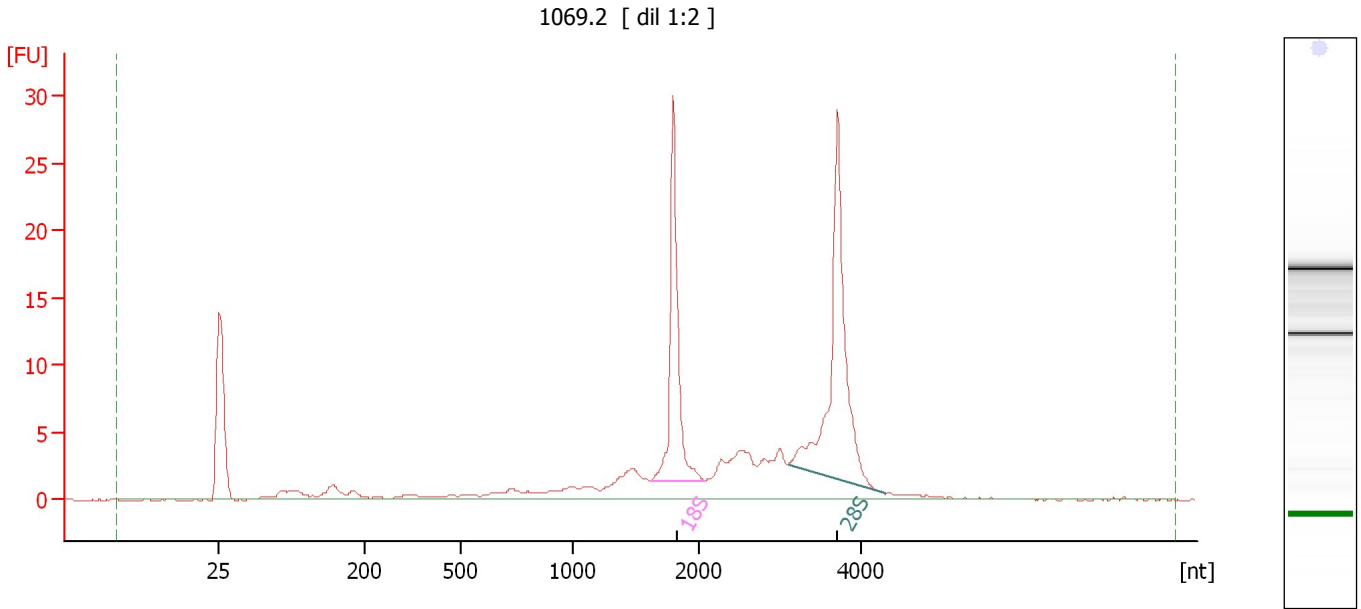
**Fragment table for sample 3 : 1064.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	2,182	11.6	17.1
28S	3,320	4,326	19.6	29.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1069.2**

RNA Area: 137.9 RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 91 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.80

**Fragment table for sample 4 : 1069.2**

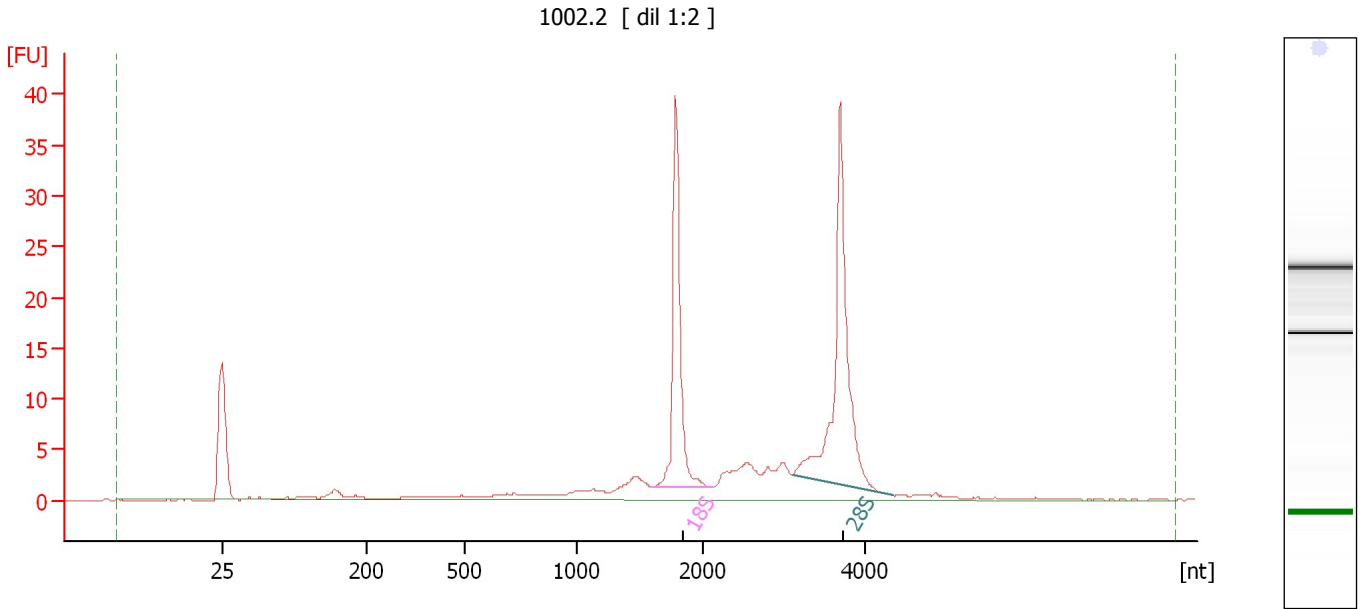
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	2,079	25.3	18.4
28S	3,104	4,288	37.9	27.5



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 1002.2**

RNA Area:	149.0	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	99 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]:	1.5	Result Flagging Label:	RIN:9

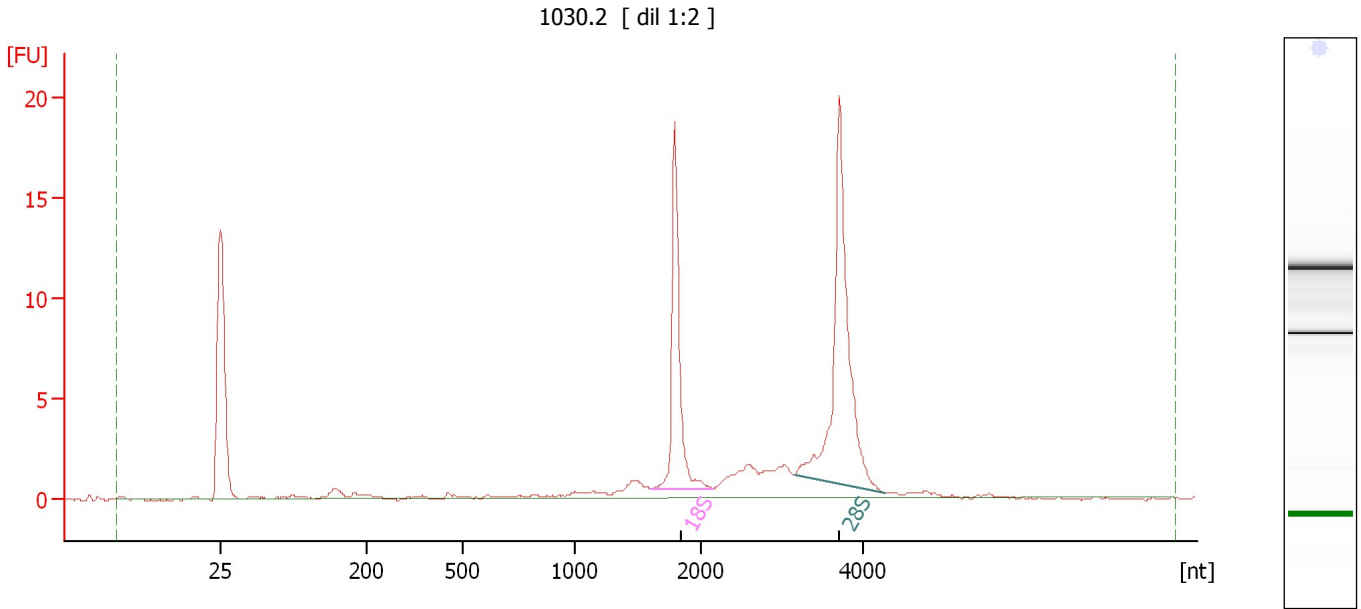
**Fragment table for sample 5 : 1002.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,601	2,133	31.5	21.1
28S	3,102	4,333	47.2	31.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 1030.2**

RNA Area:	68.9	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	46 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: 9.60

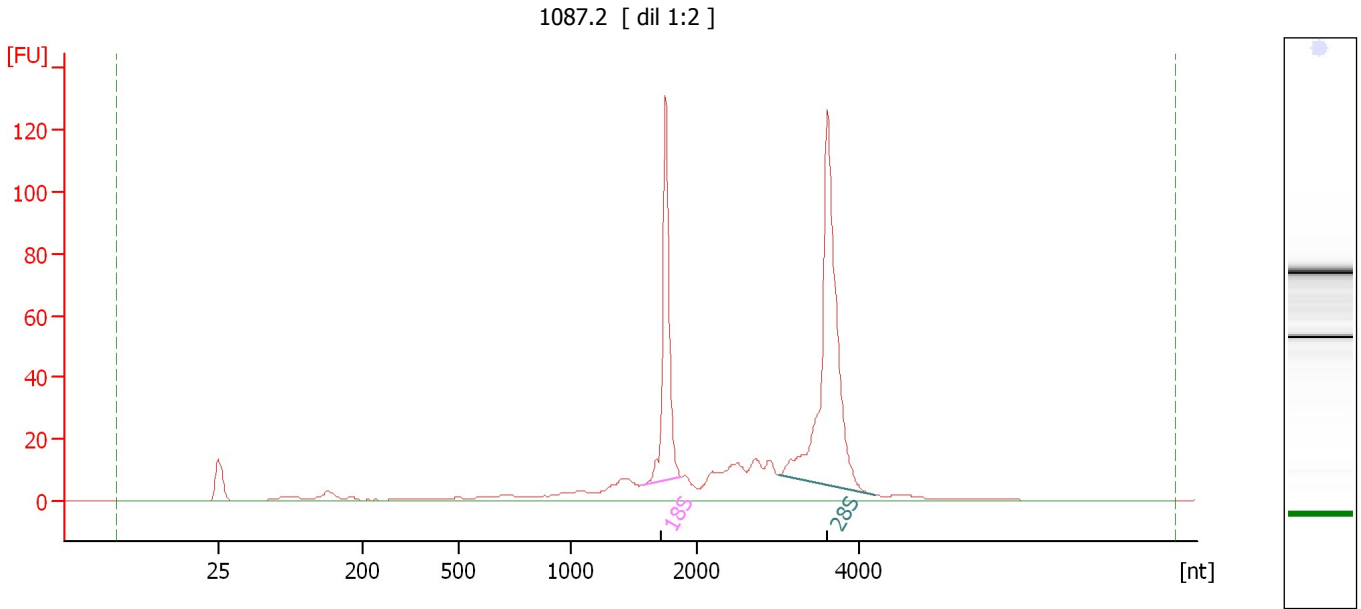
**Fragment table for sample 6 : 1030.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	2,158	15.2	22.0
28S	3,156	4,271	27.2	39.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 1087.2**

RNA Area:	533.4	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	353 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: 9.20

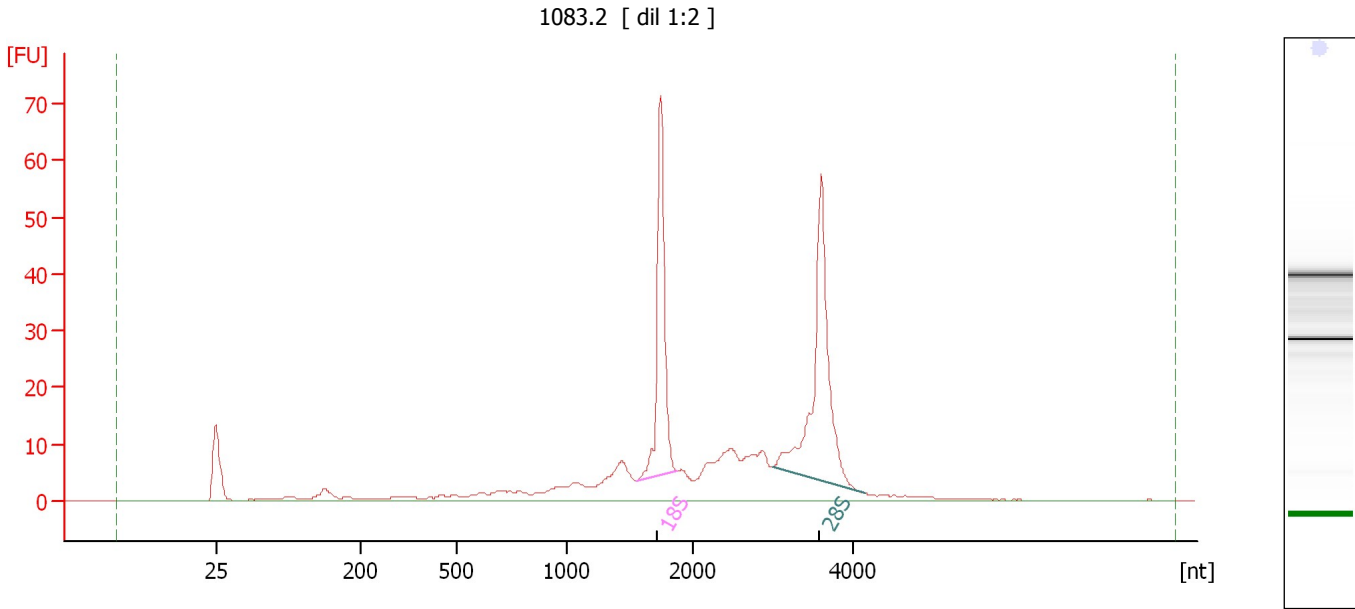
**Fragment table for sample 7 : 1087.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	1,879	98.5	18.5
28S	3,027	4,213	188.9	35.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 1083.2**

RNA Area:	317.2	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	210 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: 8.40

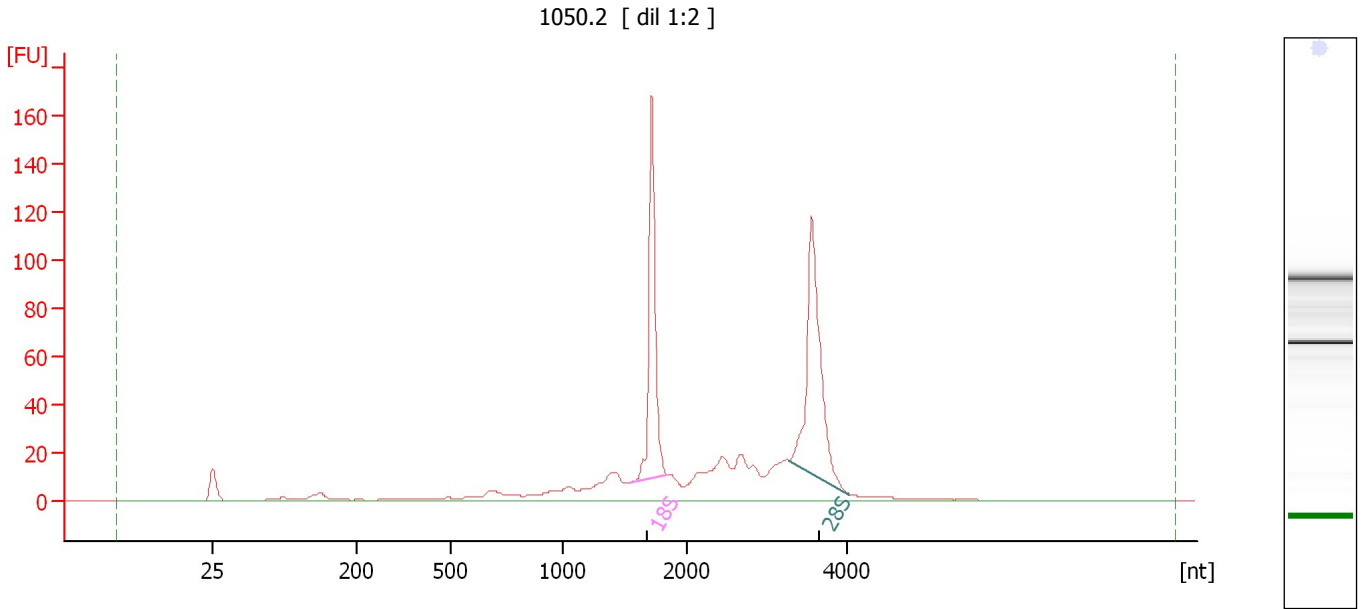
**Fragment table for sample 8 : 1083.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,551	1,877	55.6	17.5
28S	2,989	4,140	79.4	25.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 1050.2**

RNA Area:	641.6	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	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]:	1.2	Result Flagging Label:	RIN: 8.50

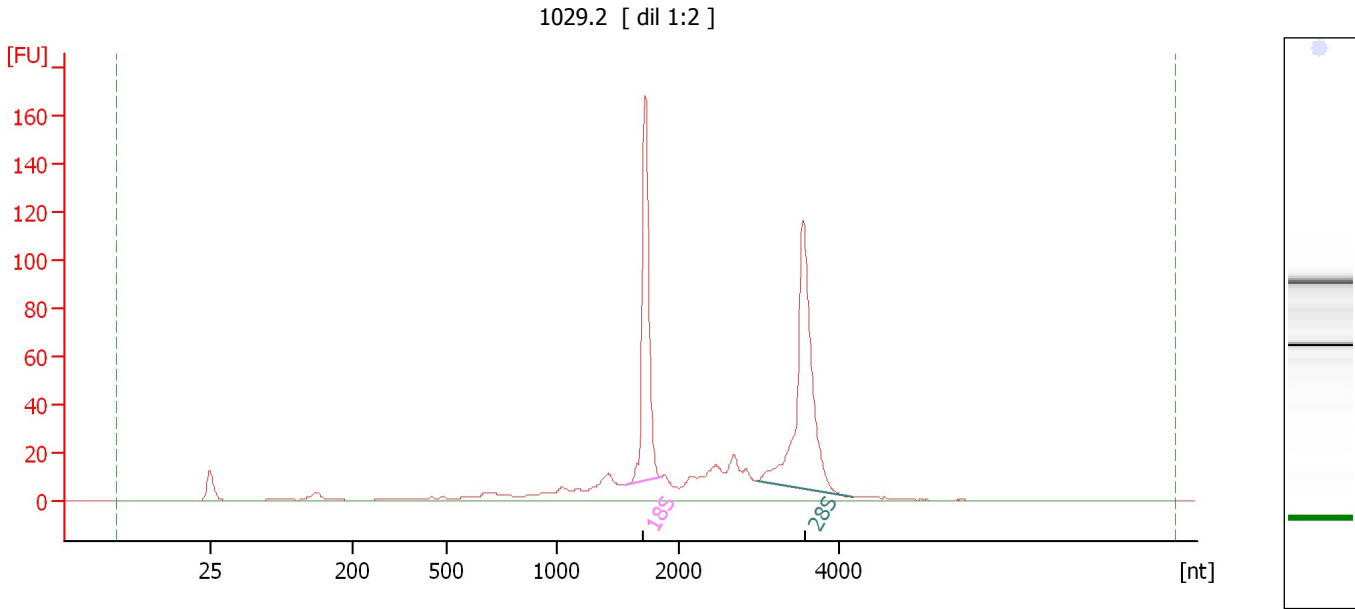
**Fragment table for sample 9 : 1050.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,537	1,849	126.6	19.7
28S	3,285	4,044	147.2	22.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 1029.2**

RNA Area:	584.6	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	387 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: 8.80

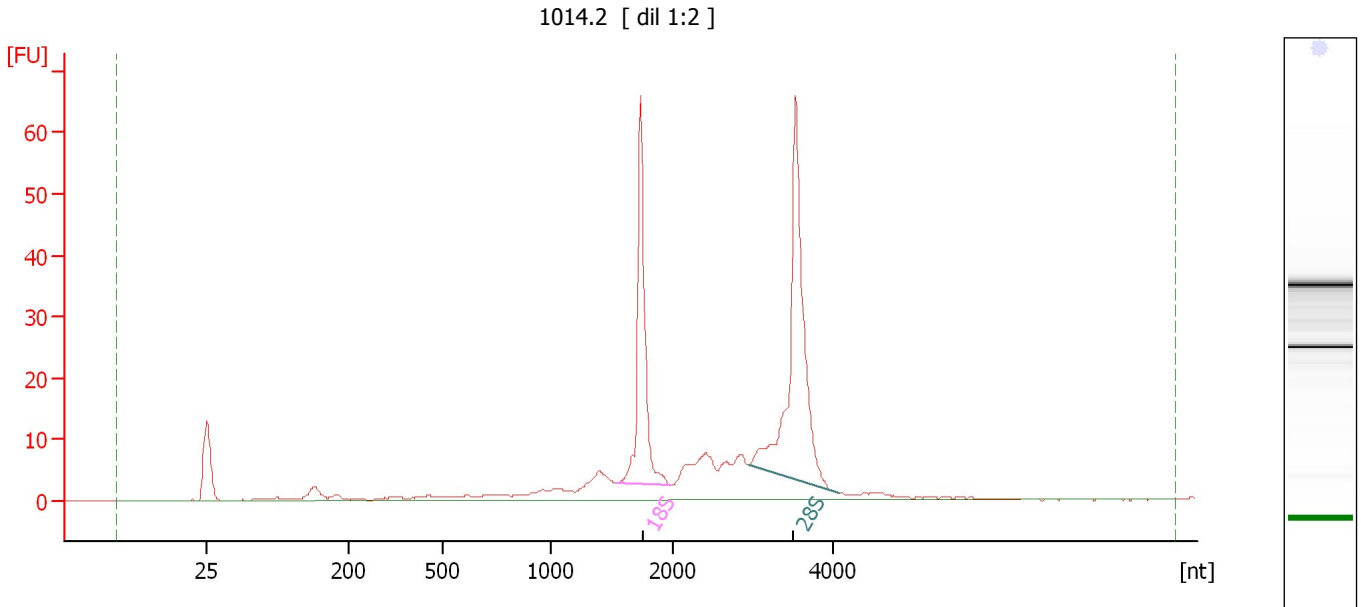
**Fragment table for sample 10 : 1029.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,550	1,846	125.6	21.5
28S	2,955	4,161	174.8	29.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 1014.2**

RNA Area: 288.3                      RNA Integrity Number (RIN): 9.1 (B.02.08)  
RNA Concentration: 191 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6              Result Flagging Label: RIN: 9.10

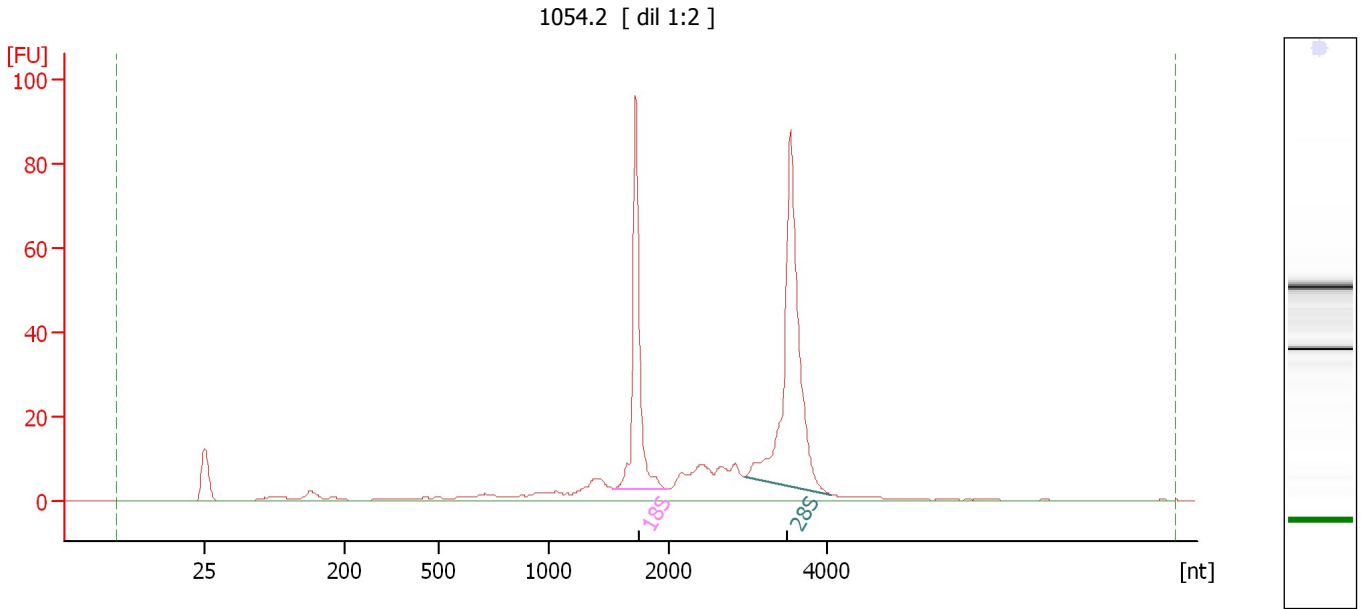
**Fragment table for sample 11 : 1014.2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,536	1,983	55.9	19.4
28S	2,945	4,077	91.0	31.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 1054.2**

RNA Area:	364.3	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	241 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]:	1.6	Result Flagging Label:	RIN: 9.30

**Fragment table for sample 12 : 1054.2**

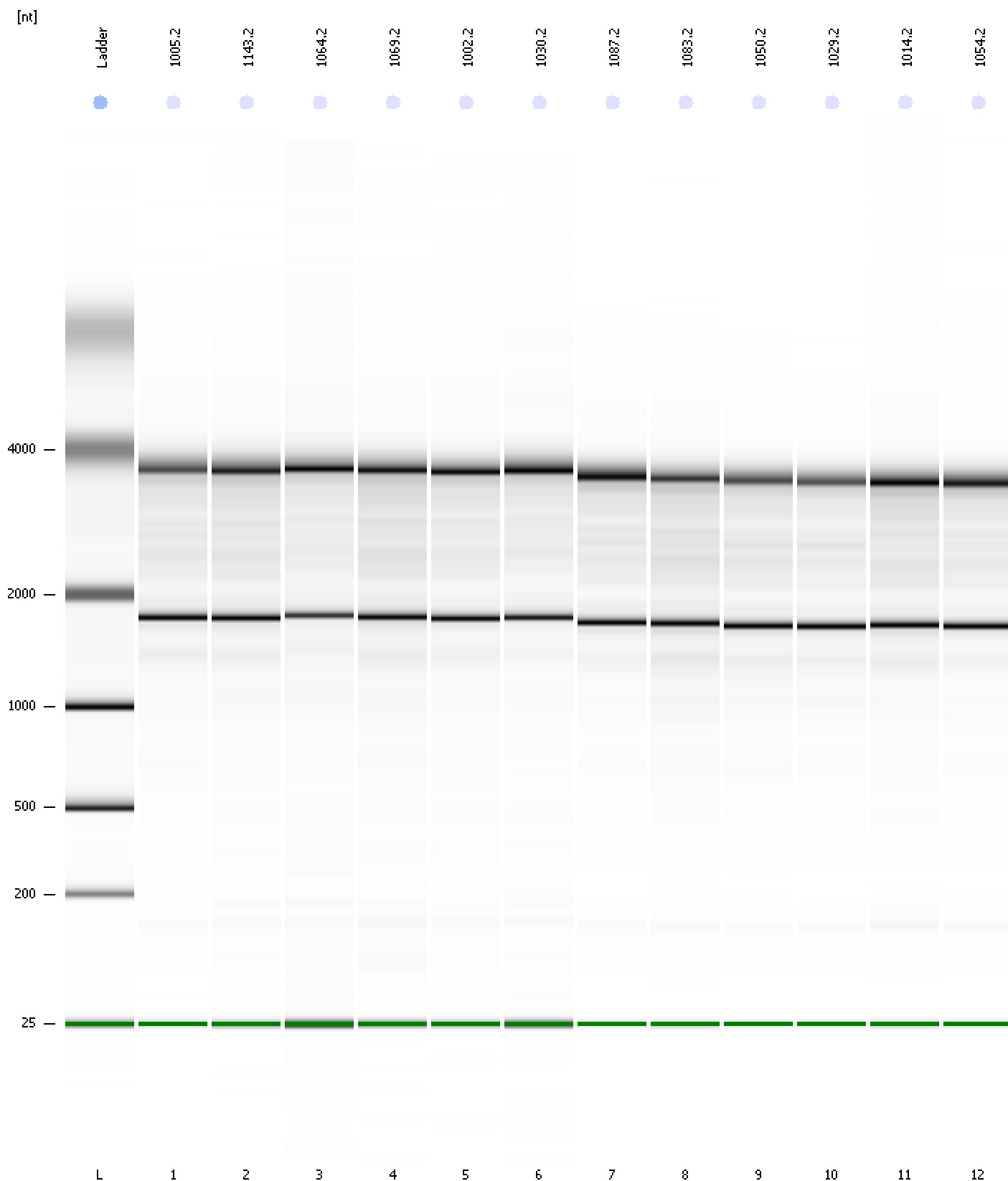
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,542	1,981	80.5	22.1
28S	2,946	4,057	128.2	35.2



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Gel Image**

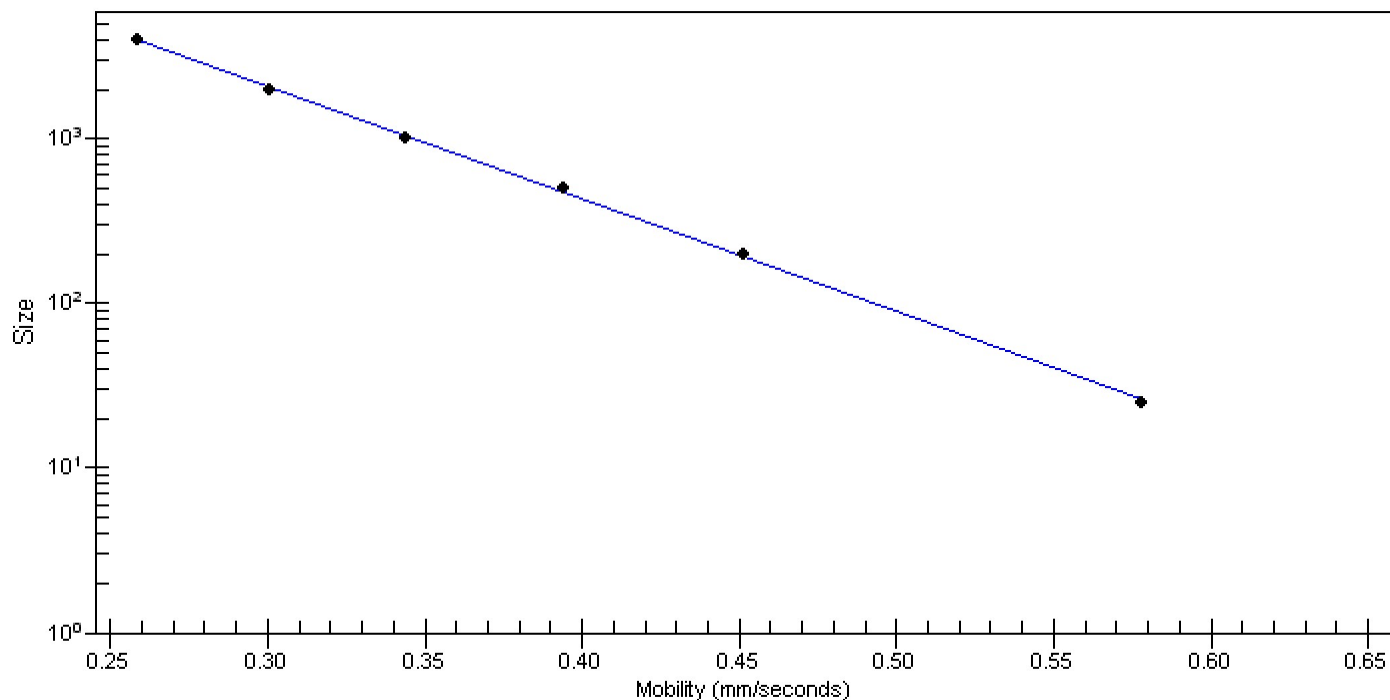


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
Modified: 10/9/2015 12:27:28 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-09\2015-10-09\_001.xad

Created: 10/9/2015 11:56:50 AM  
 Modified: 10/9/2015 12:27:28 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		10/9/2015 12:20:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-09\2015-10-09_001.xad)		Instrument	Run		10/9/2015 11:56:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/9/2015 11:56:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/9/2015 11:56:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/9/2015 11:56:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/9/2015 11:56:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/9/2015 11:56:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/9/2015 11:56:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1