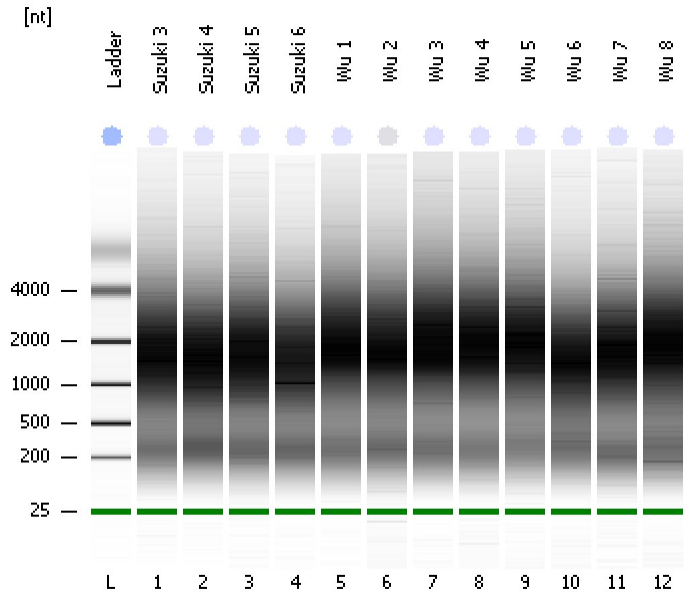


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

Electrophoresis File Run Summary



Instrument Information:

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

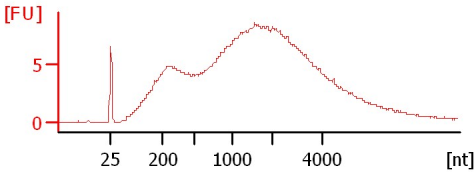
Assay Information:

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.

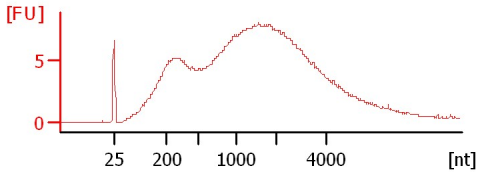
Chip Information:

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

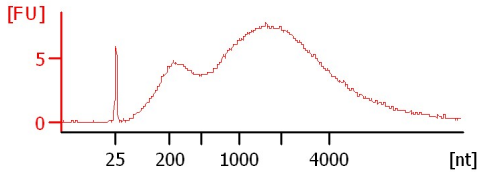
**Suzuki 3**  
RIN: 2.30



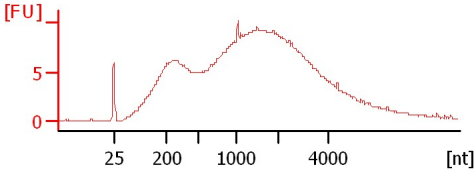
**Suzuki 4**  
RIN: 2.50



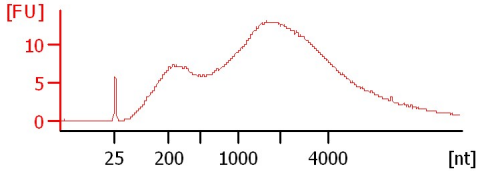
**Suzuki 5**  
RIN: 2.70



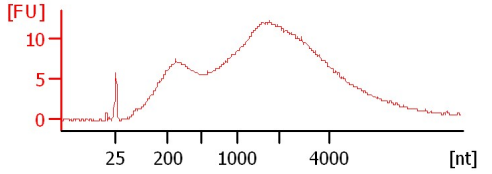
**Suzuki 6**  
RIN: 2.60



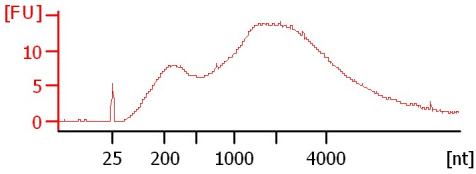
**Wu 1**  
RIN: 2.80



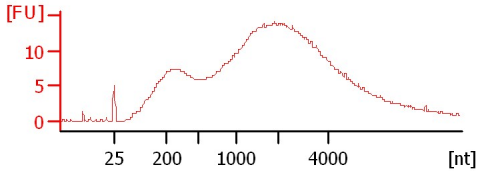
**Wu 2**  
RIN N/A



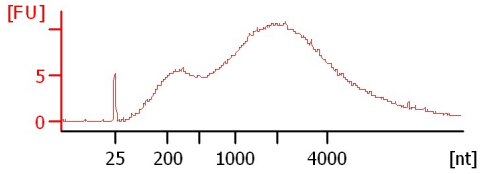
**Wu 3**  
RIN: 2.90



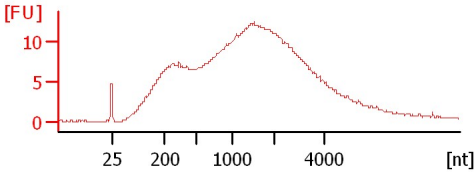
**Wu 4**  
RIN: 2.20



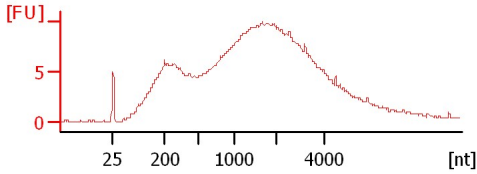
**Wu 5**  
RIN: 2.70



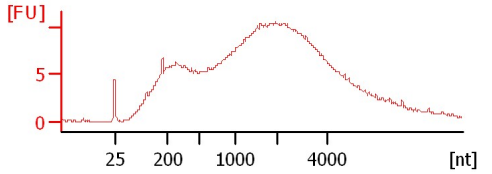
**Wu 6**  
RIN: 2.40



**Wu 7**  
RIN: 2.10



**Wu 8**  
RIN: 2.30



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
 Modified: 9/24/2014 1:24:43 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Suzuki 3		✓	RIN: 2.30	
Suzuki 4		✓	RIN: 2.50	
Suzuki 5		✓	RIN: 2.70	
Suzuki 6		✓	RIN: 2.60	
Wu 1		✓	RIN: 2.80	
Wu 2		✓	RIN N/A	
Wu 3		✓	RIN: 2.90	
Wu 4		✓	RIN: 2.20	
Wu 5		✓	RIN: 2.70	
Wu 6		✓	RIN: 2.40	
Wu 7		✓	RIN: 2.10	
Wu 8		✓	RIN: 2.30	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 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

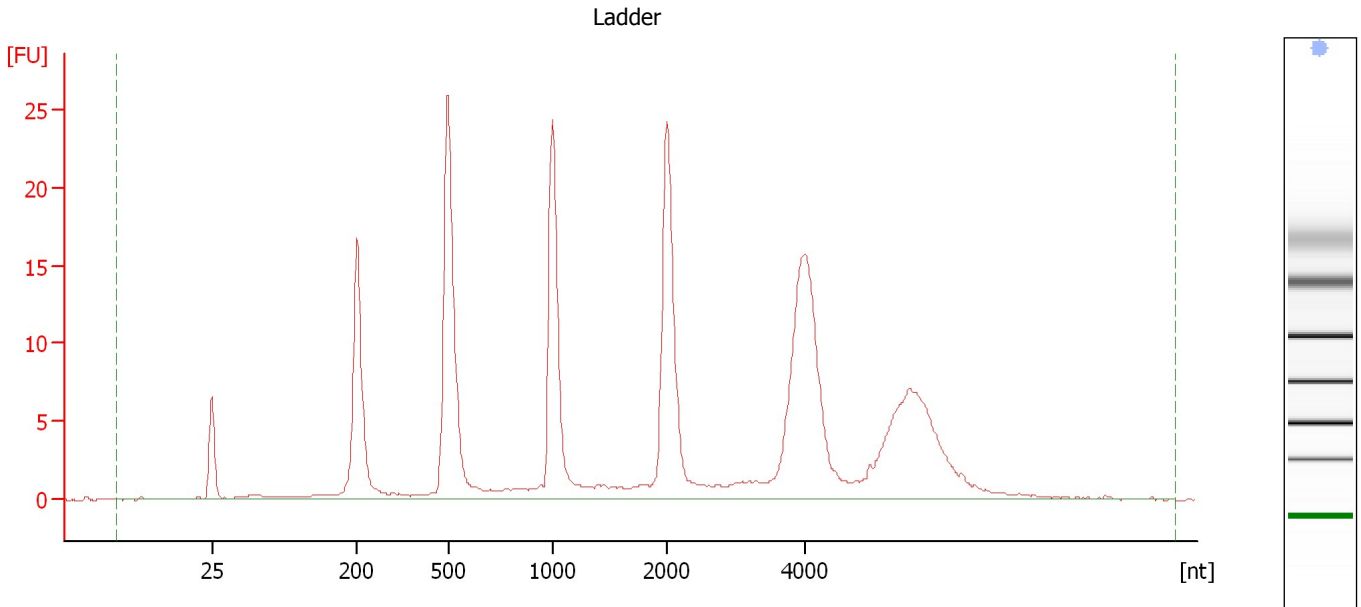
### Ladder

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\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary**



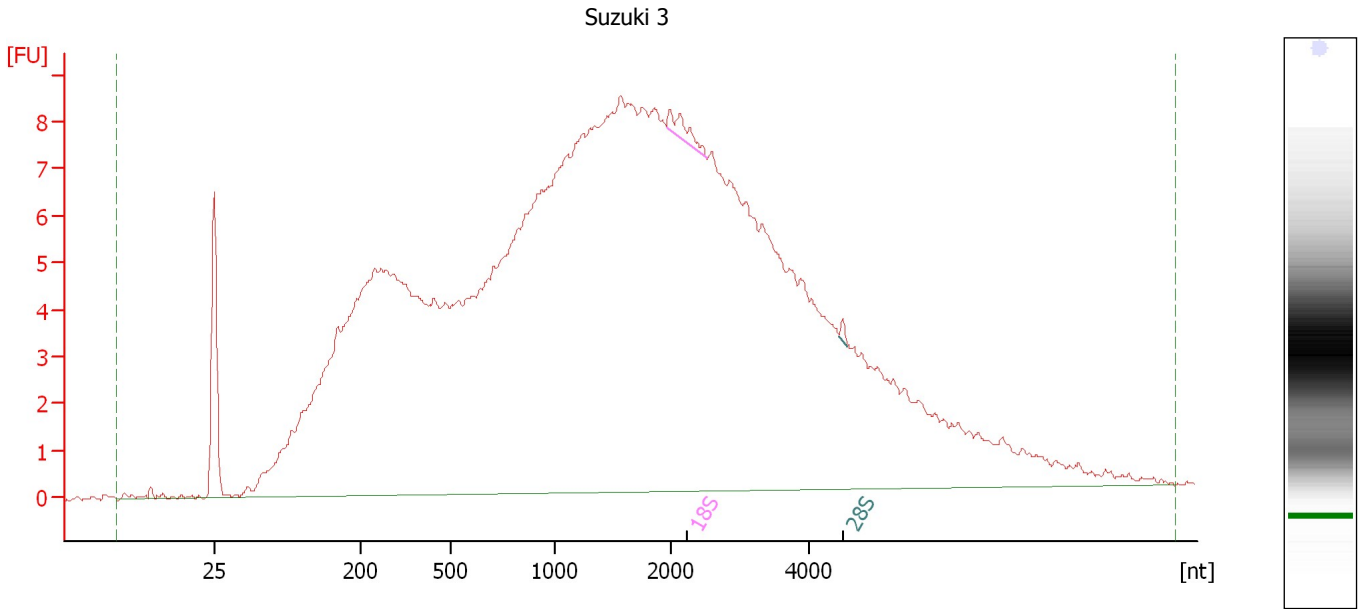
**Overall Results for Ladder**

RNA Area:	245.0	Result Flagging Color:	<span style="background-color: blue; 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\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Suzuki 3**

RNA Area:	380.3	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	233 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: 2.30

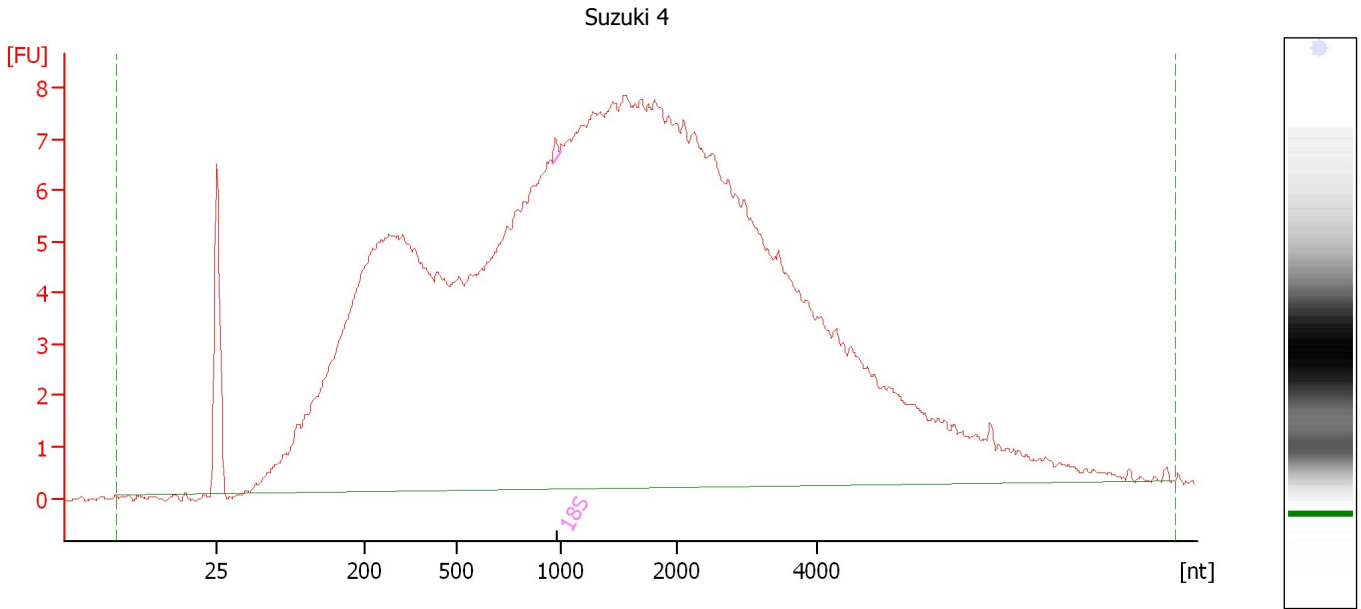
**Fragment table for sample 1 : Suzuki 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,955	2,512	1.2	0.3
28S	4,427	4,550	0.2	0.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Suzuki 4**

RNA Area:	351.5	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	215 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: 2.50

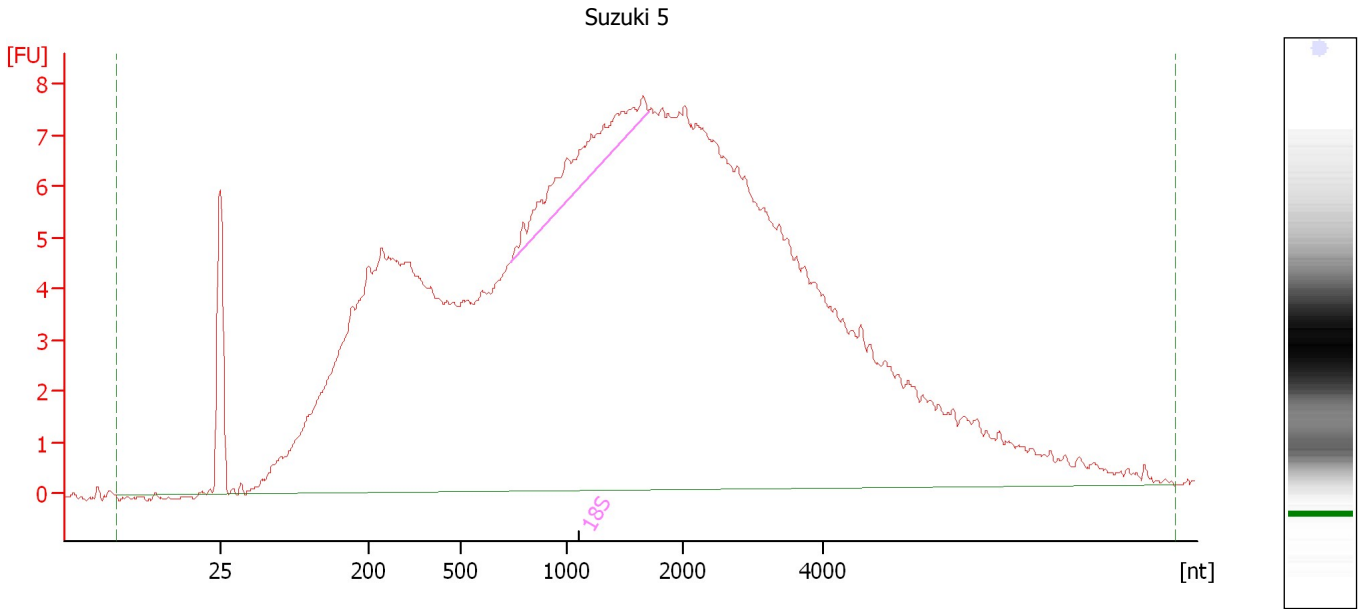
**Fragment table for sample 2 : Suzuki 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	957	995	0.2	0.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Suzuki 5**

RNA Area:	352.0	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	215 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: 2.70

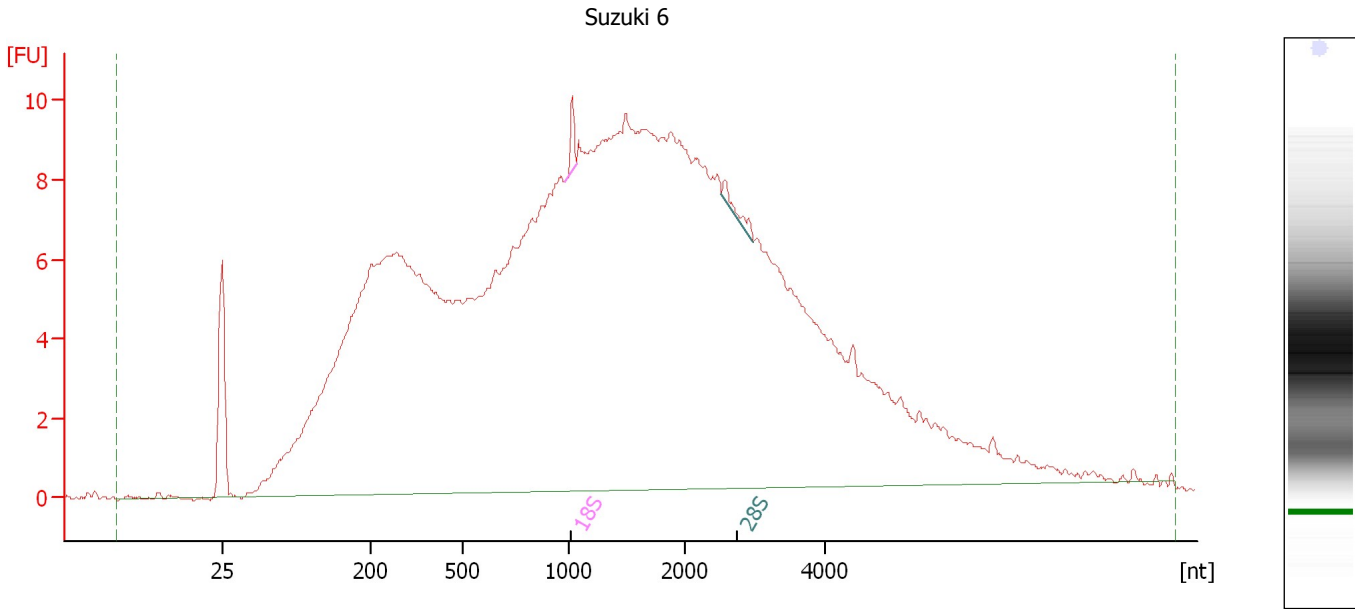
**Fragment table for sample 3 : Suzuki 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	739	1,698	8.3	2.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Suzuki 6**

RNA Area: 425.6                      RNA Integrity Number (RIN): 2.6 (B.02.08)  
RNA Concentration: 261 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.6                      Result Flagging Label: RIN: 2.60

**Fragment table for sample 4 : Suzuki 6**

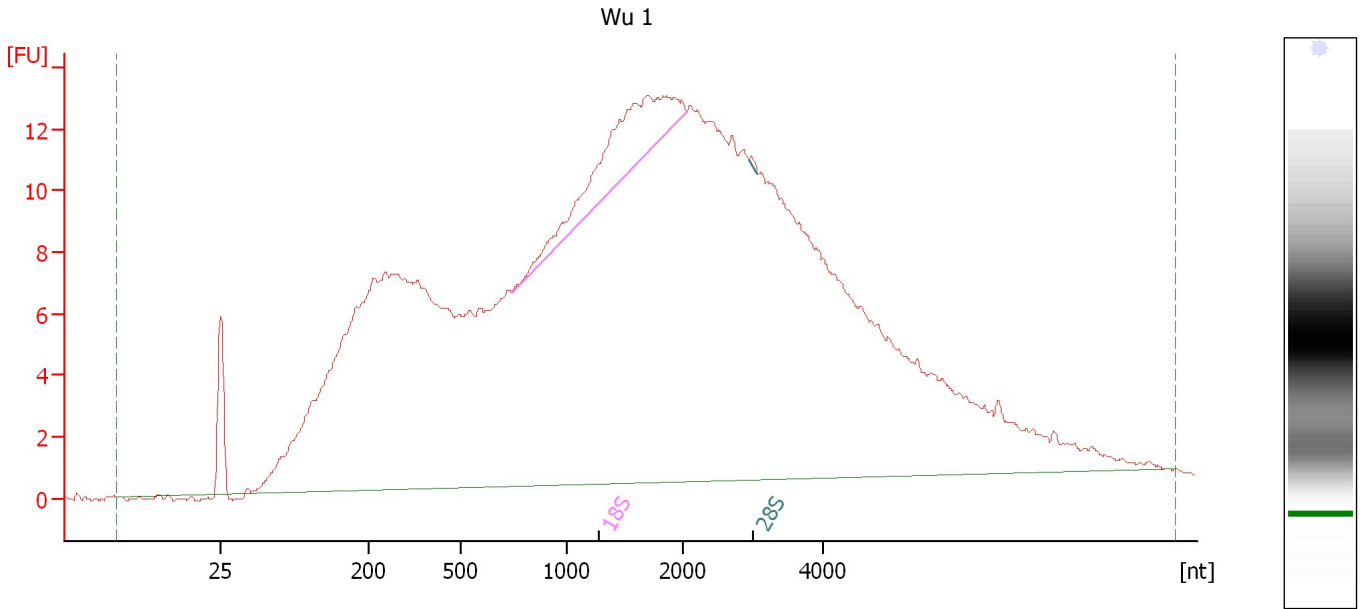
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	990	1,072	1.0	0.2
28S	2,517	2,973	0.6	0.1



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
 Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Wu 1**

RNA Area:	572.8	RNA Integrity Number (RIN):	2.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	351 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: 2.80

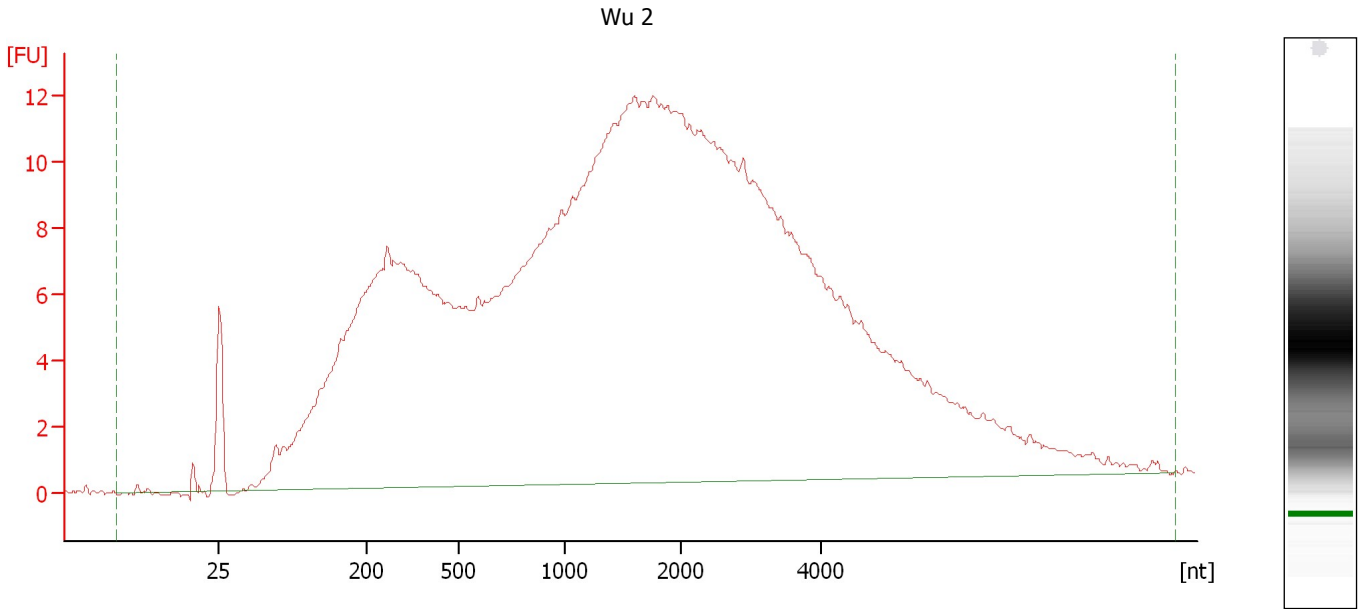
**Fragment table for sample 5 : Wu 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	744	2,043	18.8	3.3
28S	2,928	3,050	0.2	0.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : Wu 2**

Width Threshold [s] : 0.01

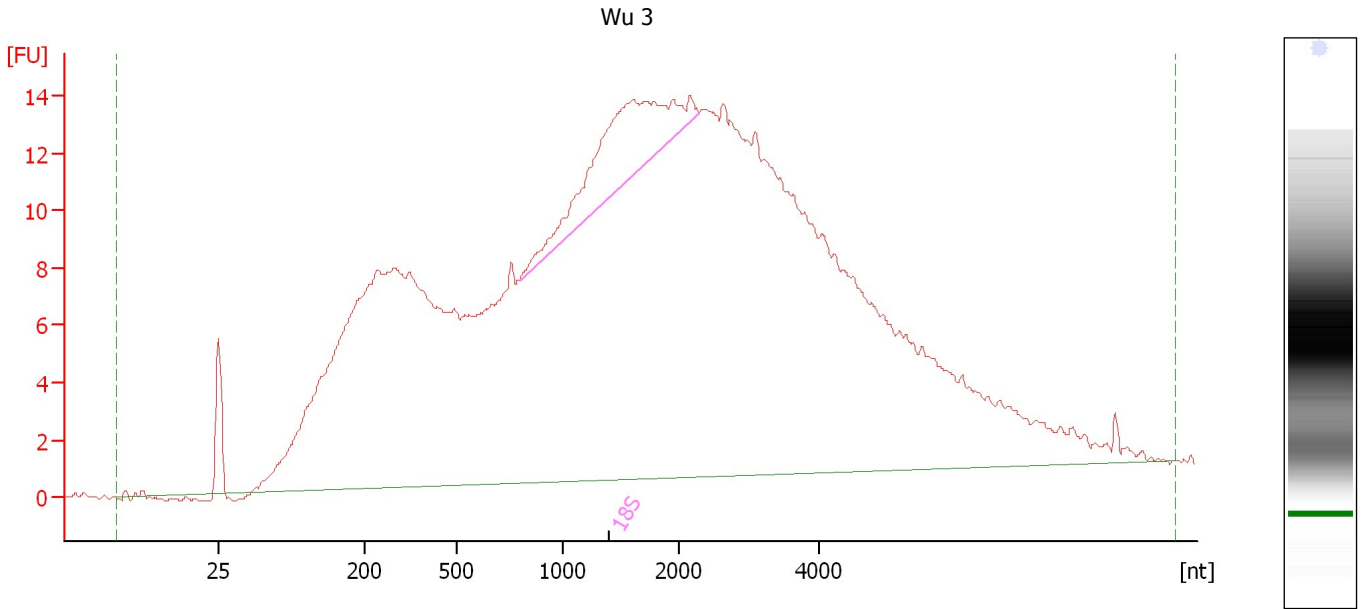
**Overall Results for sample 6 : Wu 2**

RNA Area:	522.6	Result Flagging Color:	
RNA Concentration:	320 ng/μl	Result Flagging Label:	RIN N/A
rRNA Ratio [28s / 18s]:	0.0		

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Wu 3**

RNA Area:	624.9	RNA Integrity Number (RIN):	2.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	383 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: 2.90

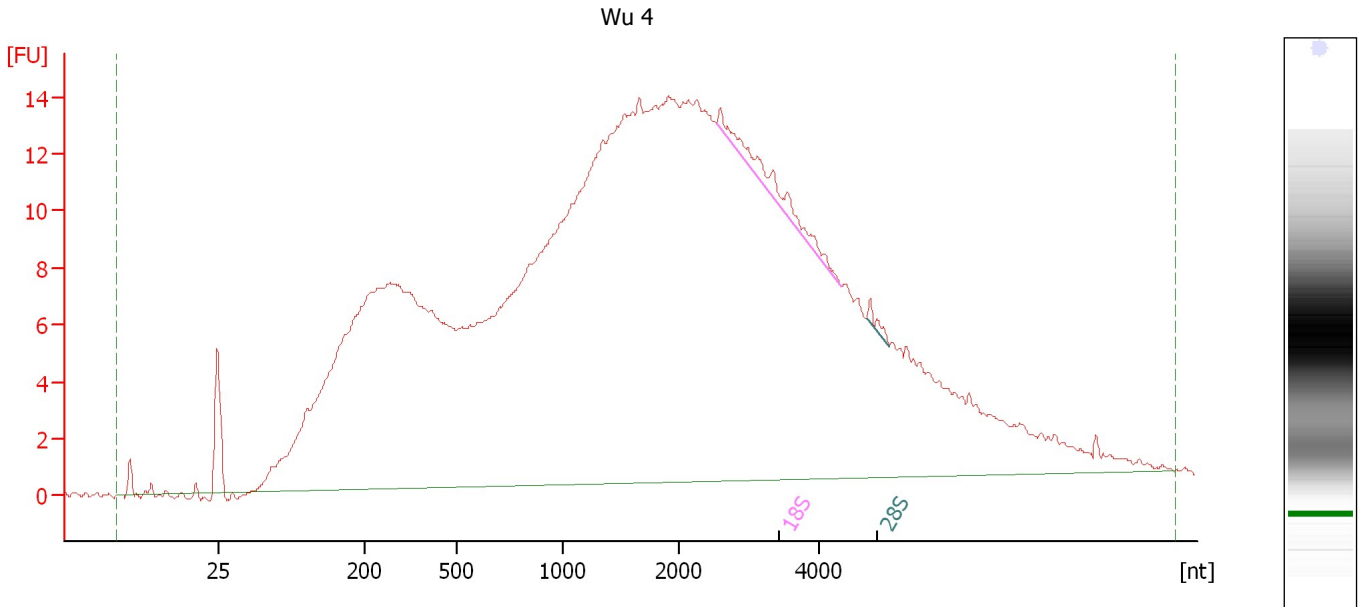
**Fragment table for sample 7 : Wu 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	796	2,270	25.6	4.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
 Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : Wu 4**

Slope Threshold :	0.1	Area Threshold :	0.01
Height Threshold [FU] :	0.01	Width Threshold [s] :	0.001

**Overall Results for sample 8 : Wu 4**

RNA Area:	619.3	RNA Integrity Number (RIN):	2.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	379 ng/μl		
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Color:	<span style="border: 1px solid black; display: inline-block; width: 20px; height: 10px; background-color: #ccccff;"></span>
		Result Flagging Label:	RIN: 2.20

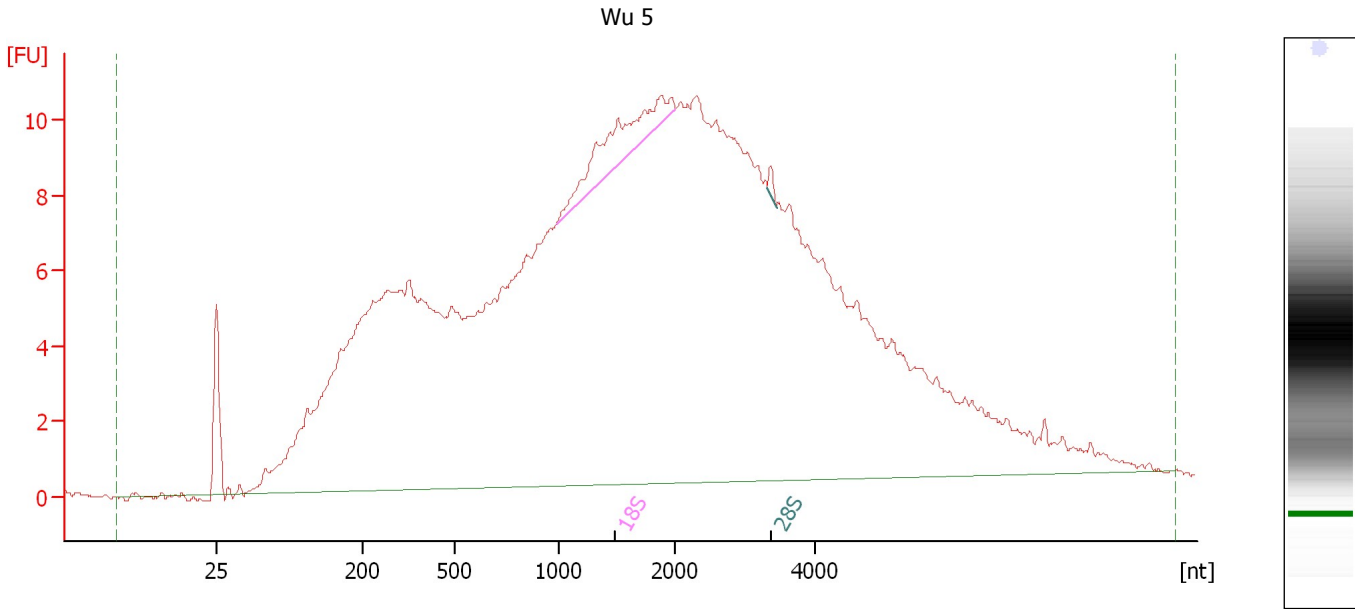
**Fragment table for sample 8 : Wu 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,530	4,306	5.0	0.8
28S	4,674	5,011	0.7	0.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 9 : Wu 5**

Height Threshold [FU] : 0.01      Width Threshold [s] : 0.01

**Overall Results for sample 9 : Wu 5**

RNA Area: 463.1      RNA Integrity Number (RIN): 2.7 (B.02.08)  
RNA Concentration: 283 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0      Result Flagging Label: RIN: 2.70

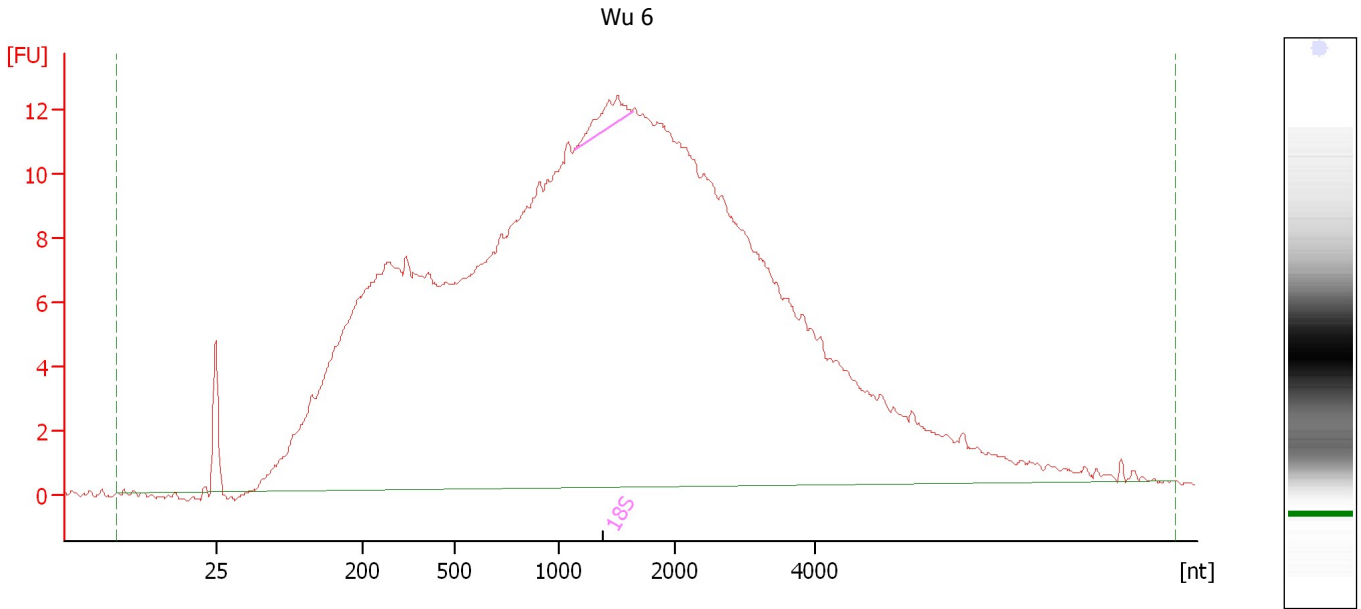
**Fragment table for sample 9 : Wu 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	986	2,006	8.6	1.9
28S	3,329	3,452	0.3	0.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Wu 6**

RNA Area:	527.9	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	323 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: 2.40

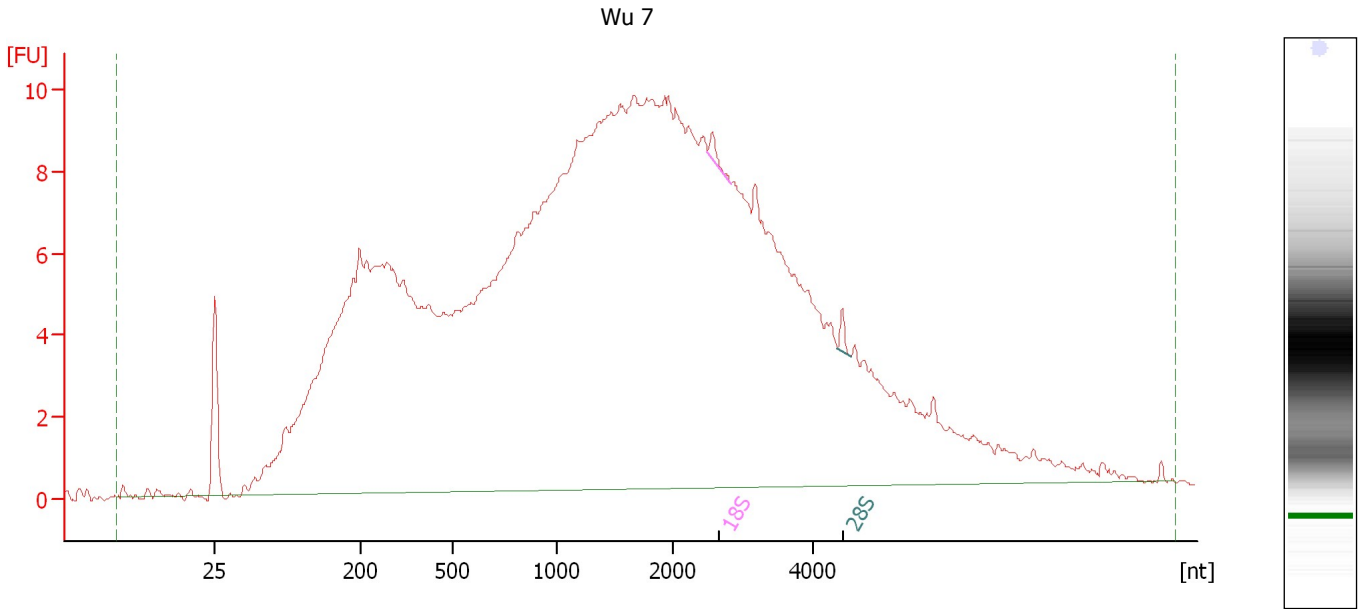
**Fragment table for sample 10 : Wu 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,140	1,627	2.8	0.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Wu 7**

RNA Area:	434.8	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	266 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: 2.10

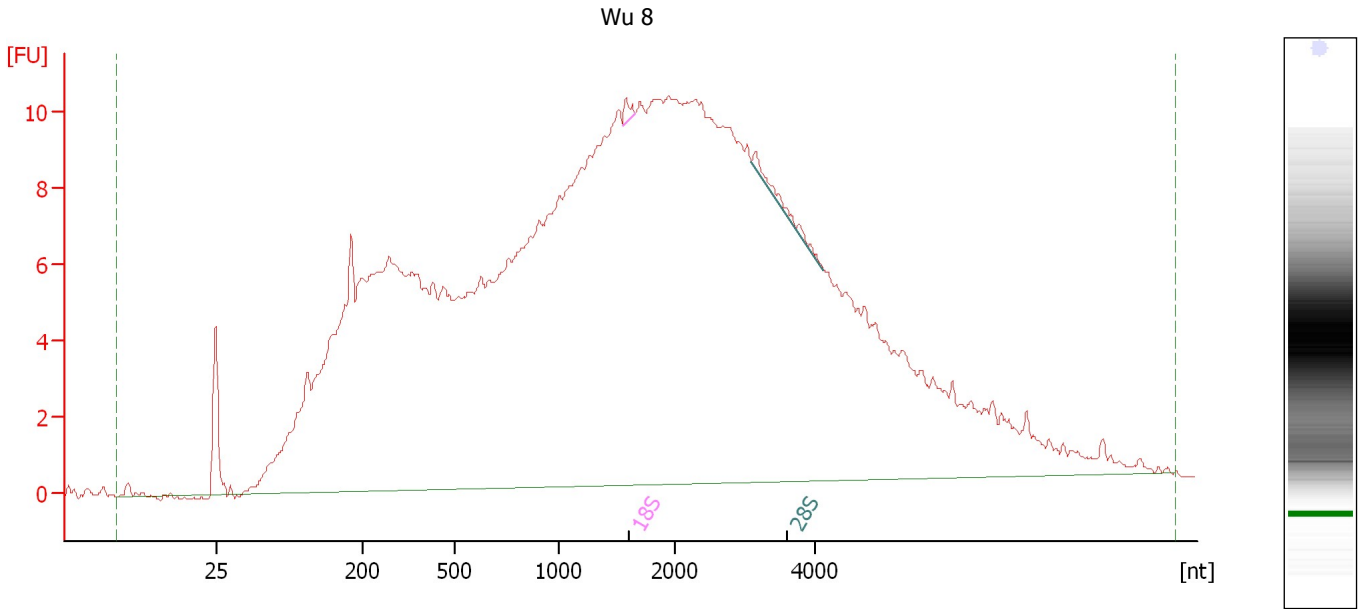
**Fragment table for sample 11 : Wu 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,498	2,821	0.5	0.1
28S	4,362	4,562	0.5	0.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Wu 8**

RNA Area:	491.4	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	301 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]:	2.3	Result Flagging Label:	RIN: 2.30

**Fragment table for sample 12 : Wu 8**

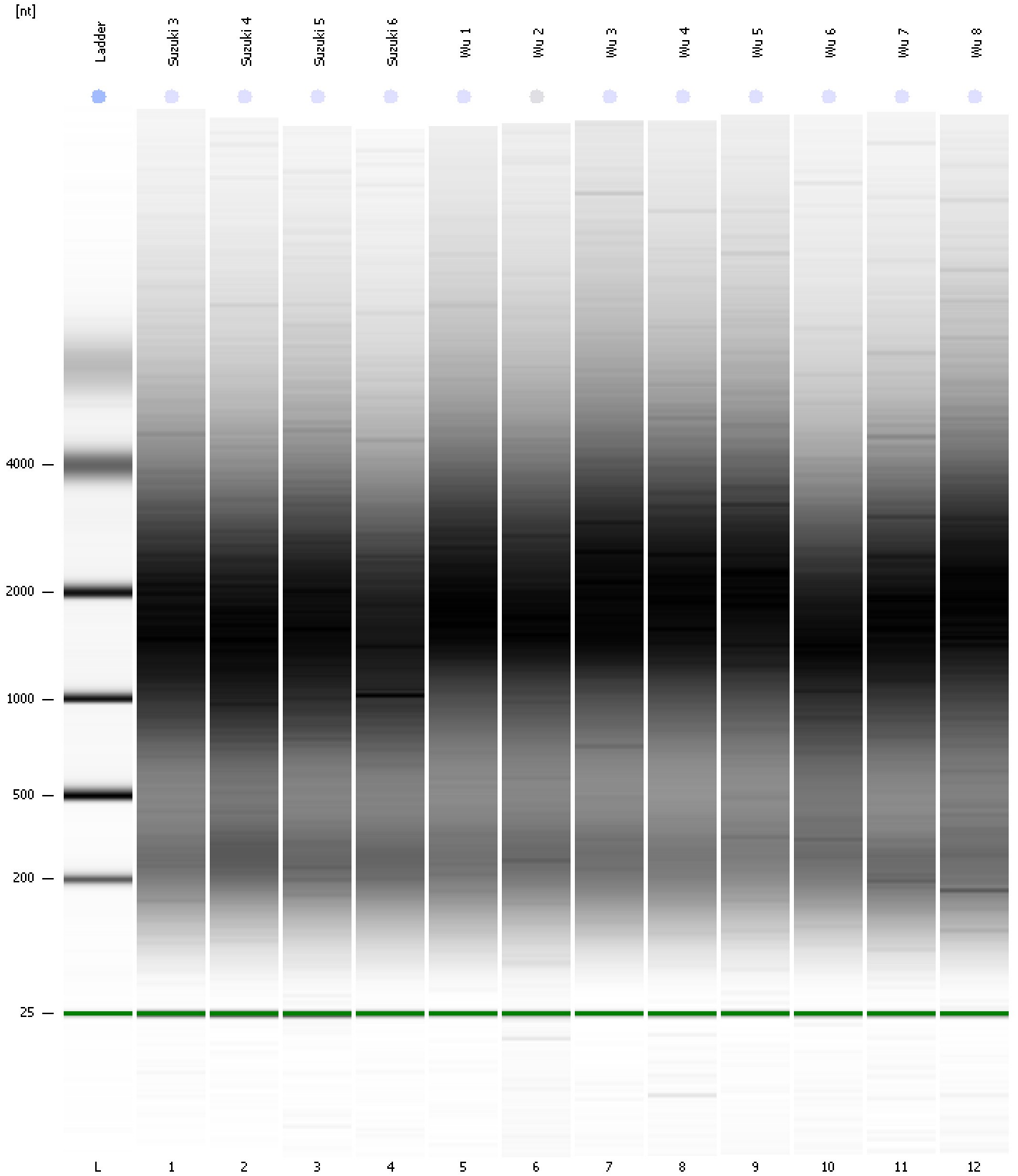
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,544	1,655	0.4	0.1
28S	3,098	4,128	1.0	0.2



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Gel Image**

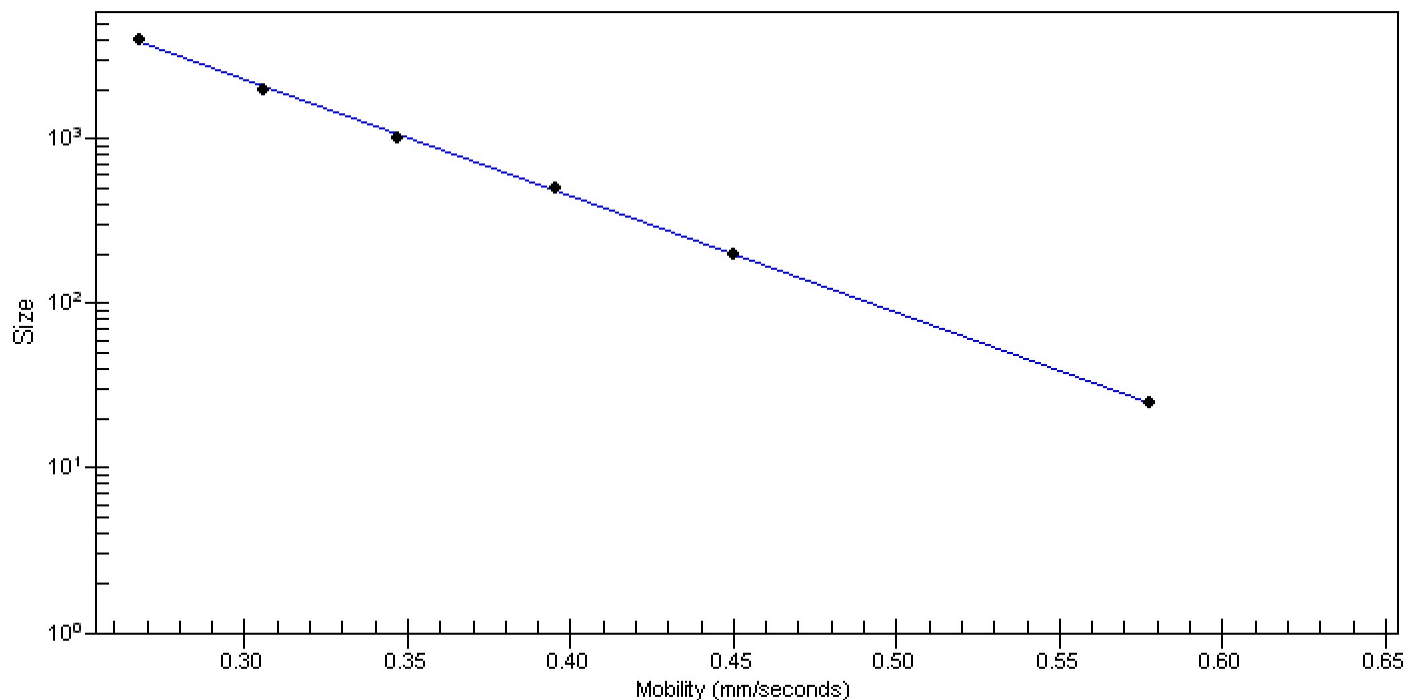


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
Modified: 9/24/2014 1:24:43 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-24\2014-09-24\_004.xad

Created: 9/24/2014 12:41:57 PM  
 Modified: 9/24/2014 1:24:43 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		9/24/2014 1:05:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-24\2014-09-24_004.xad)		Instrument	Run		9/24/2014 12:42:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/24/2014 12:42:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/24/2014 12:42:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/24/2014 12:42:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/24/2014 12:42:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/24/2014 12:42:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/24/2014 12:42:03 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1