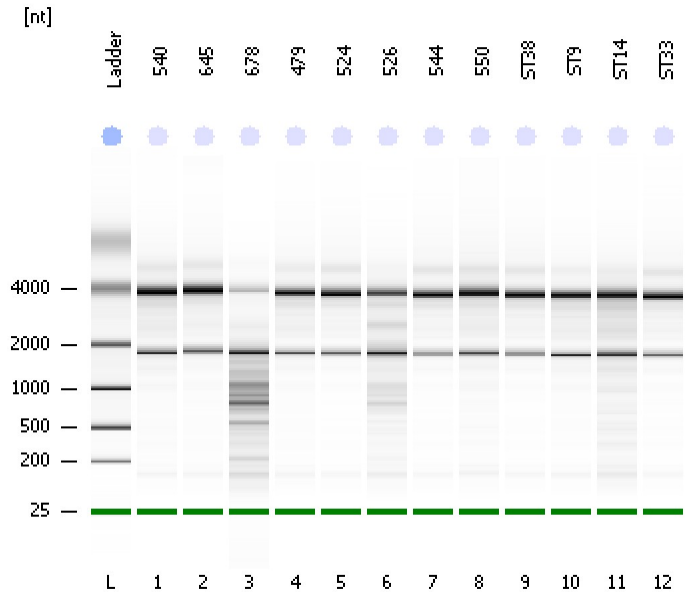


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

### Electrophoresis File Run Summary



#### Instrument Information:

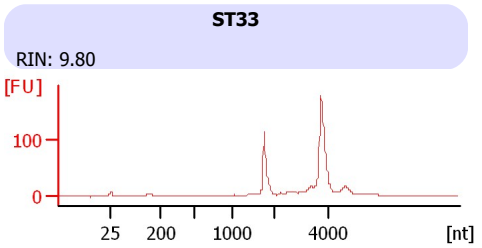
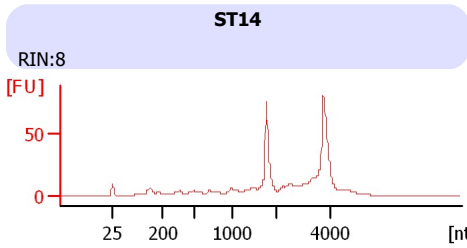
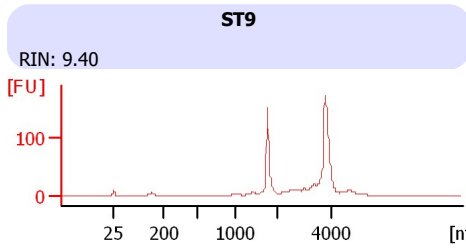
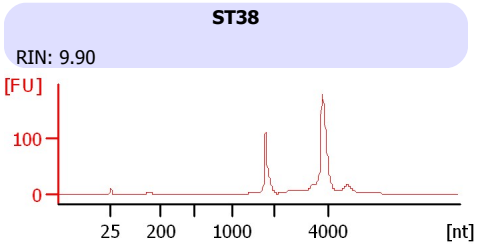
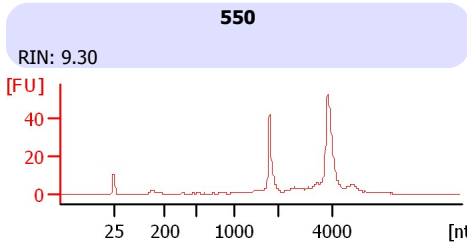
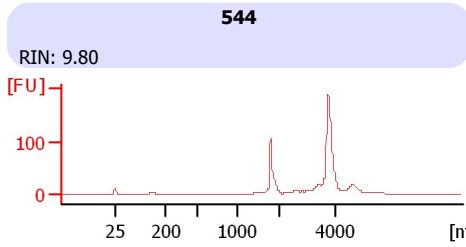
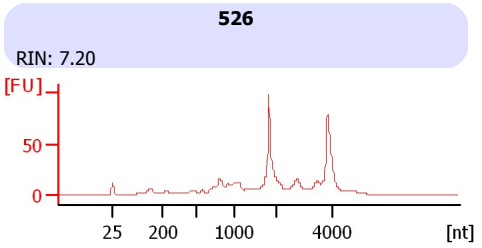
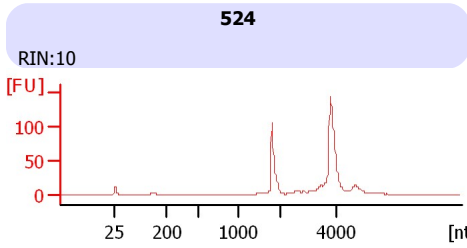
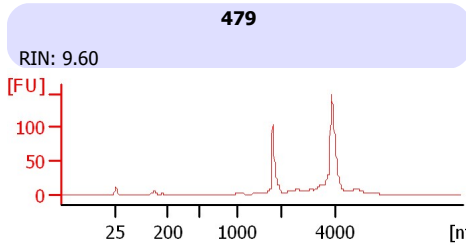
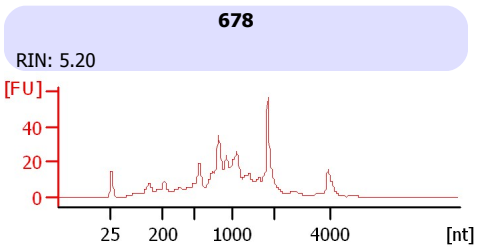
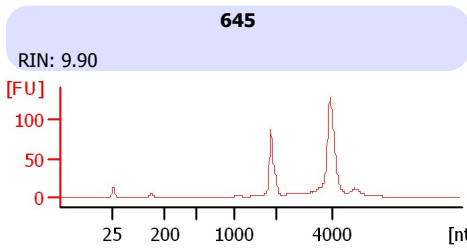
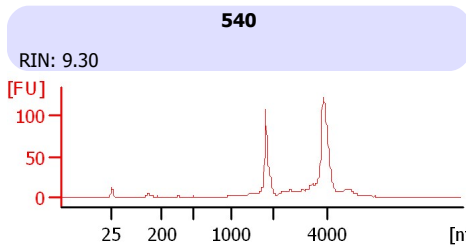
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### 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:



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
 Modified: 12/2/2015 9:41:21 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
540		✓	RIN: 9.30	
645		✓	RIN: 9.90	
678		✓	RIN: 5.20	
479		✓	RIN: 9.60	
524		✓	RIN:10	
526		✓	RIN: 7.20	
544		✓	RIN: 9.80	
550		✓	RIN: 9.30	
ST38		✓	RIN: 9.90	
ST9		✓	RIN: 9.40	
ST14		✓	RIN:8	
ST33		✓	RIN: 9.80	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 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/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

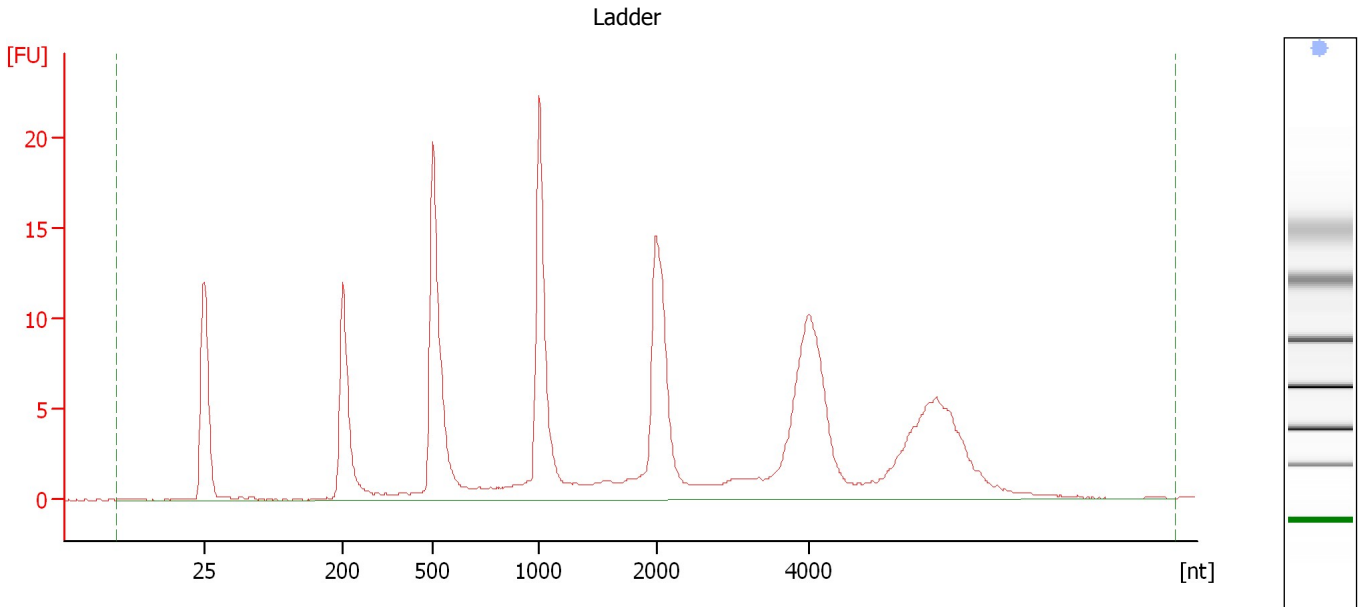
**Ladder**

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\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary**



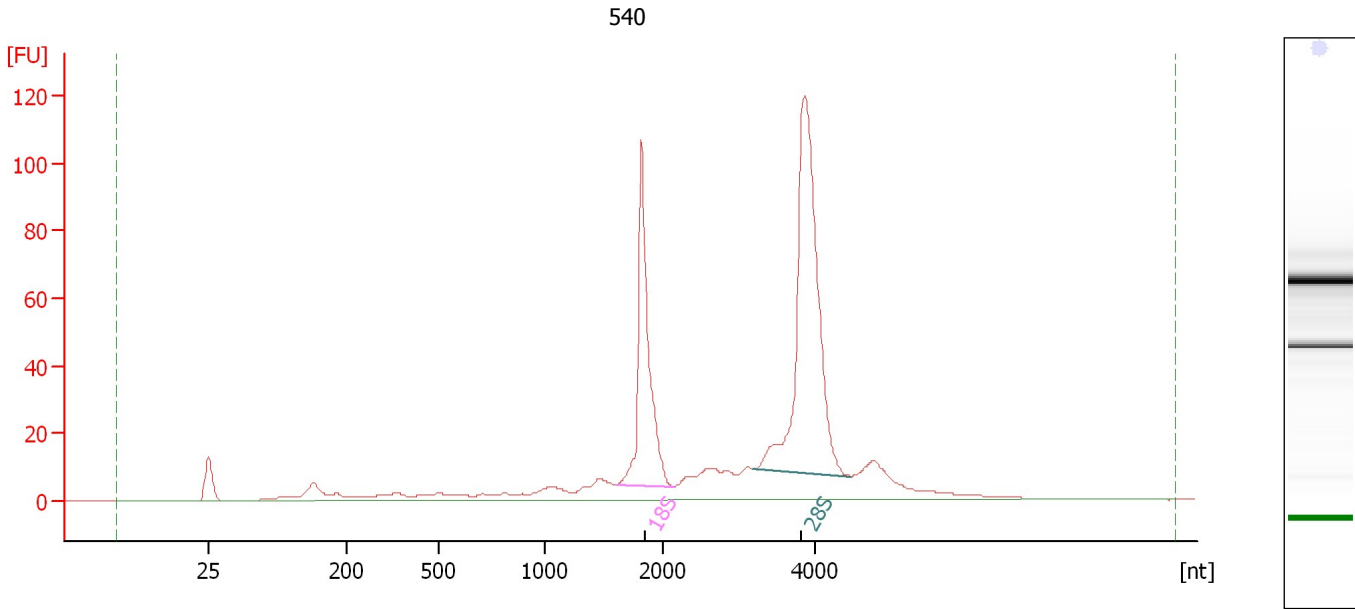
**Overall Results for Ladder**

RNA Area:	197.5	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\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 540**

RNA Area: 677.4                      RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 515 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0              Result Flagging Label: RIN: 9.30

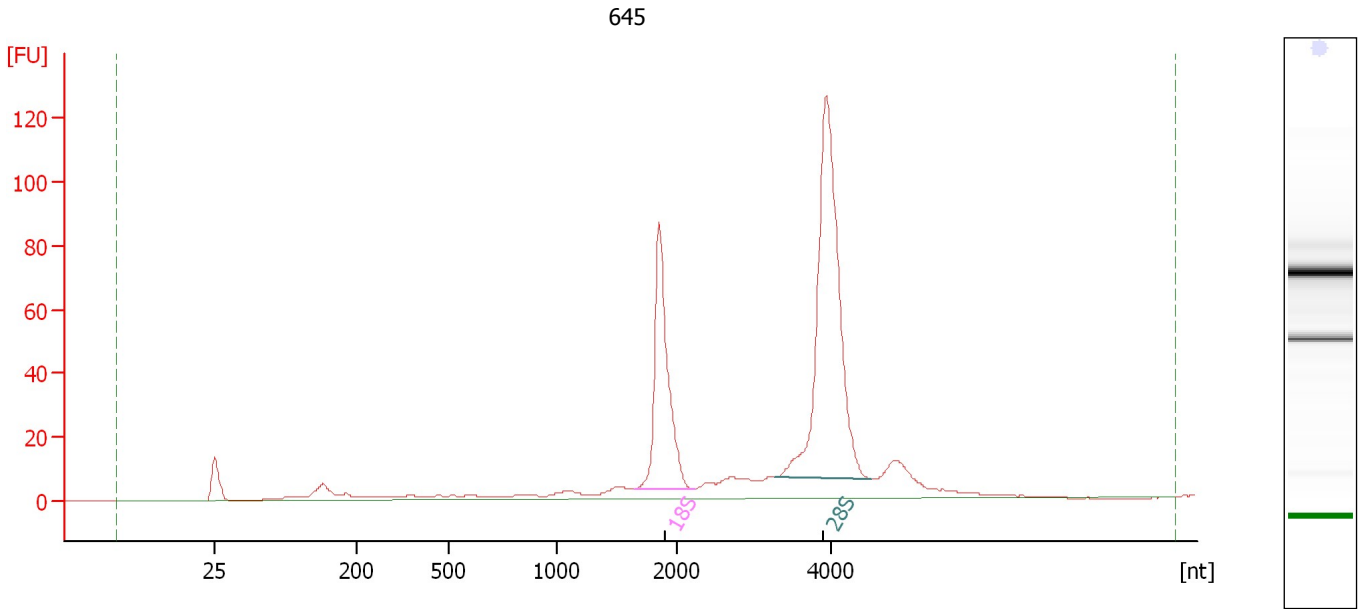
**Fragment table for sample 1 : 540**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	2,158	122.6	18.1
28S	3,179	4,467	241.9	35.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 645**

RNA Area: 616.4                      RNA Integrity Number (RIN): 9.9 (B.02.08)  
RNA Concentration: 468 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1                      Result Flagging Label: RIN: 9.90

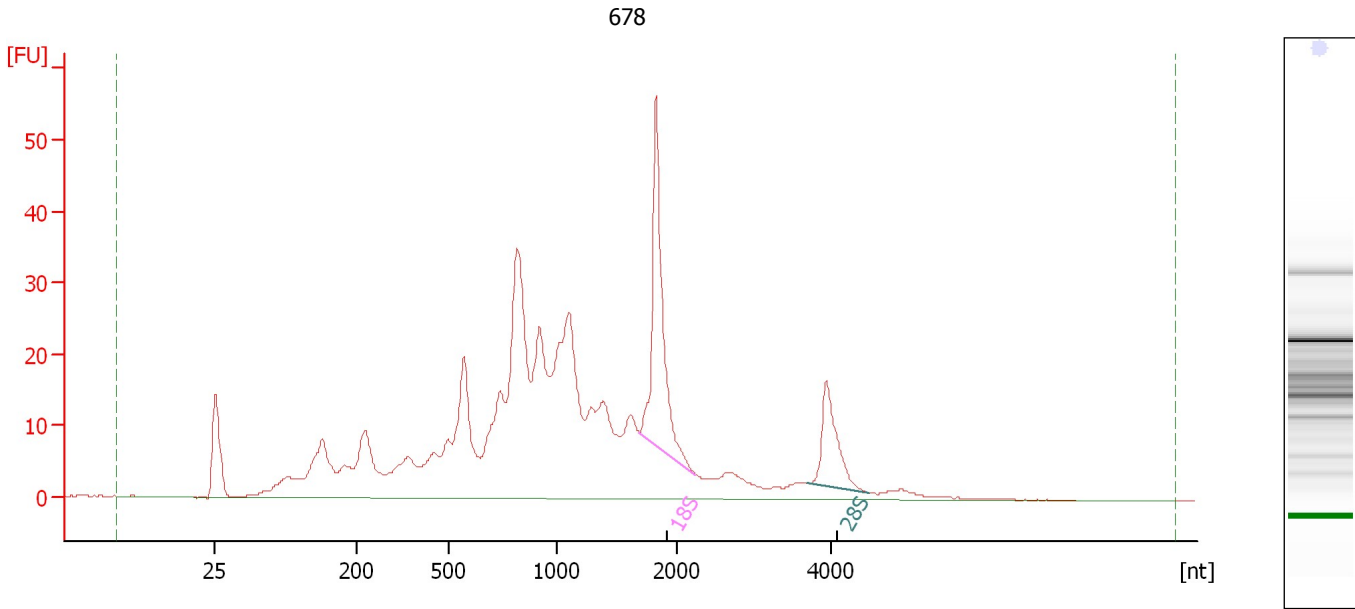
**Fragment table for sample 2 : 645**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	2,221	126.3	20.5
28S	3,269	4,510	260.3	42.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 678**

RNA Area:	621.7	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	472 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]:	0.4	Result Flagging Label:	RIN: 5.20

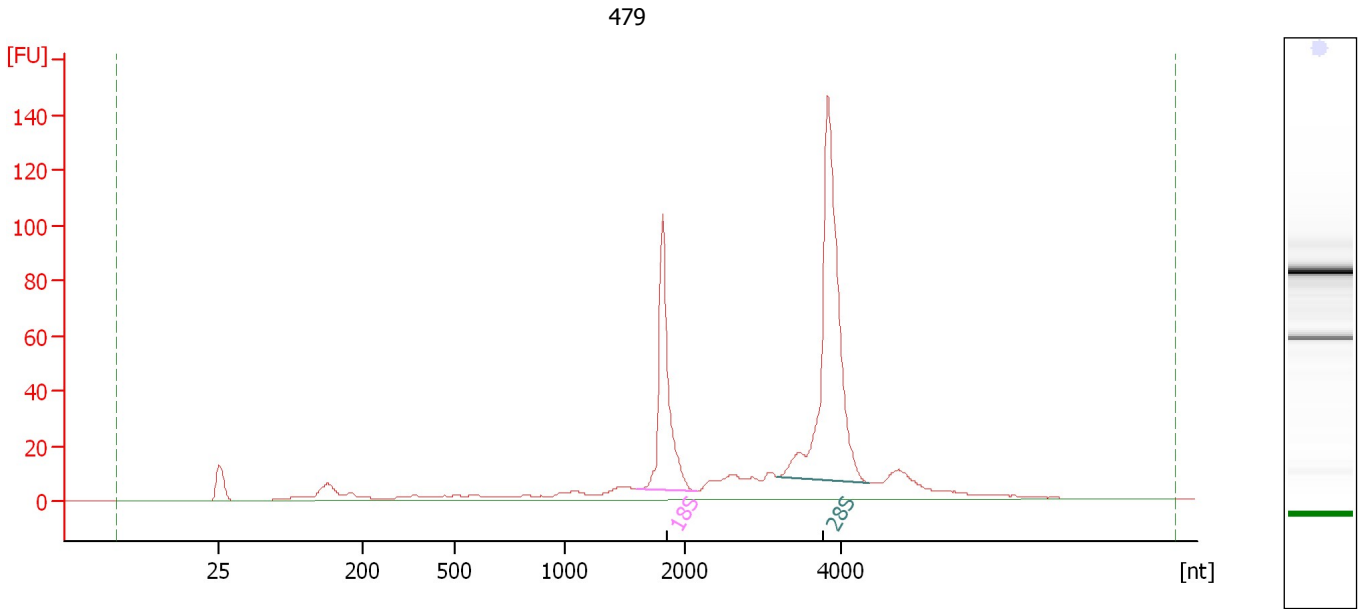
**Fragment table for sample 3 : 678**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	2,234	58.5	9.4
28S	3,669	4,483	22.9	3.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 479**

RNA Area:	626.1	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	476 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]:	2.2	Result Flagging Label:	RIN: 9.60

**Fragment table for sample 4 : 479**

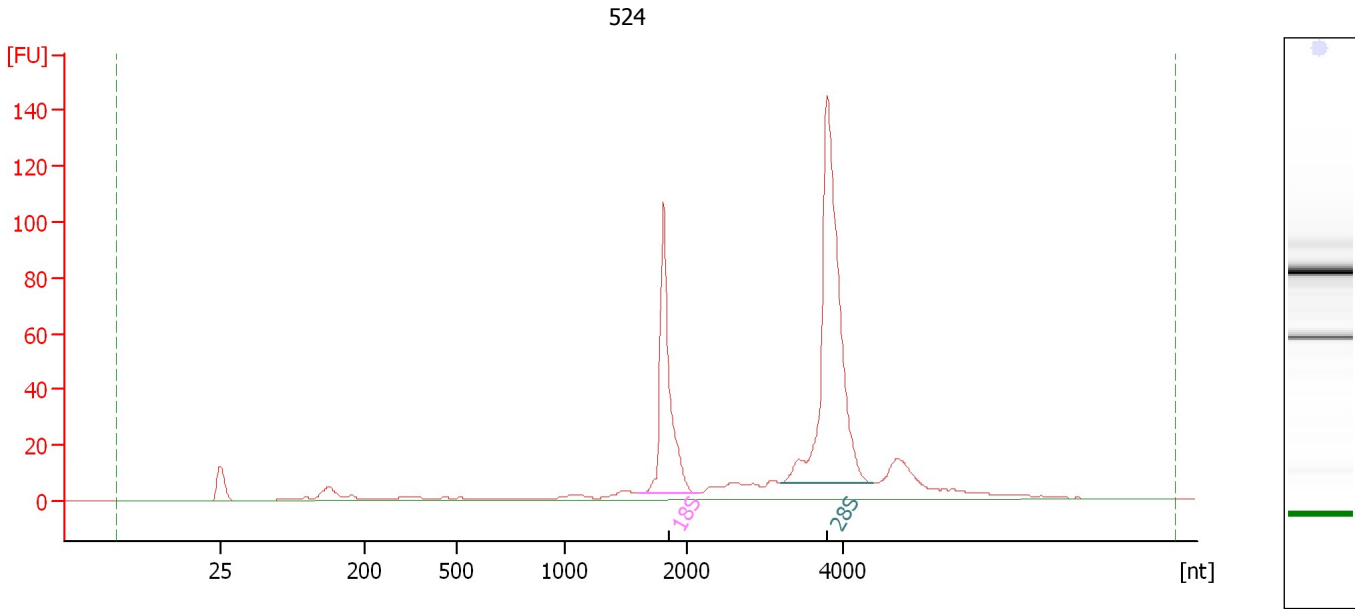
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	2,156	109.2	17.4
28S	3,182	4,345	237.7	38.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 524**

RNA Area: 592.4                      RNA Integrity Number (RIN): 10 (B.02.08)  
RNA Concentration: 450 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.2                      Result Flagging Label: RIN:10

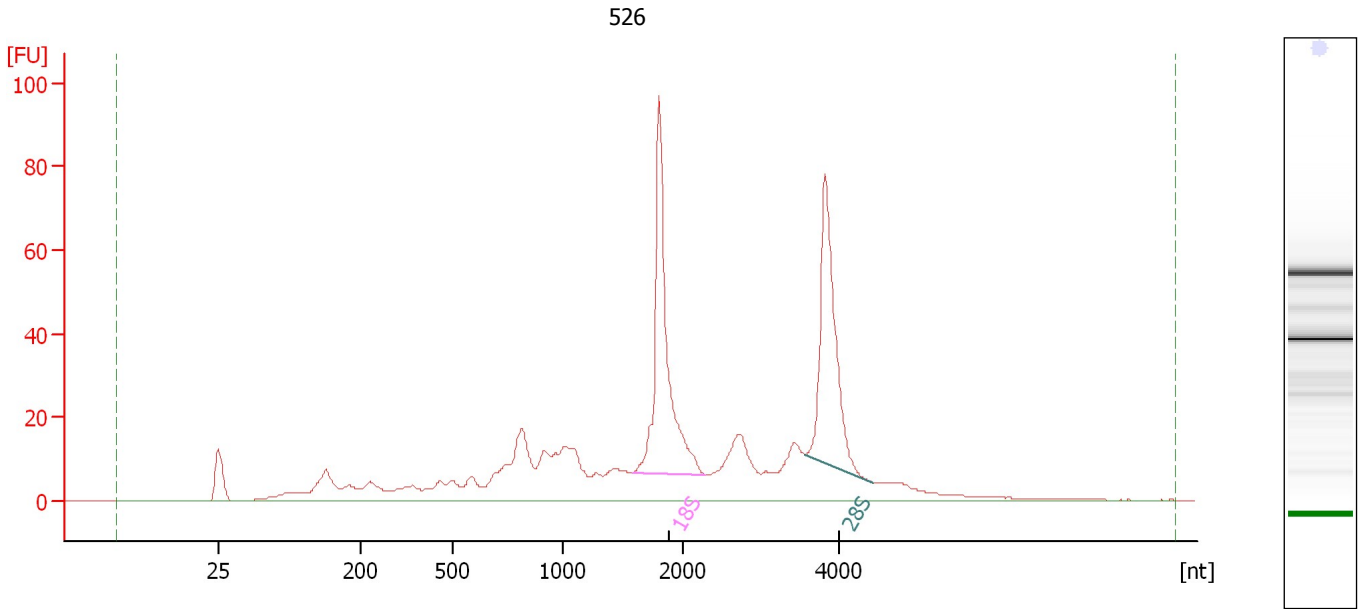
**Fragment table for sample 5 : 524**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,608	2,144	114.1	19.3
28S	3,208	4,369	250.8	42.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
 Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 526**

RNA Area:	690.9	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	525 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: 7.20

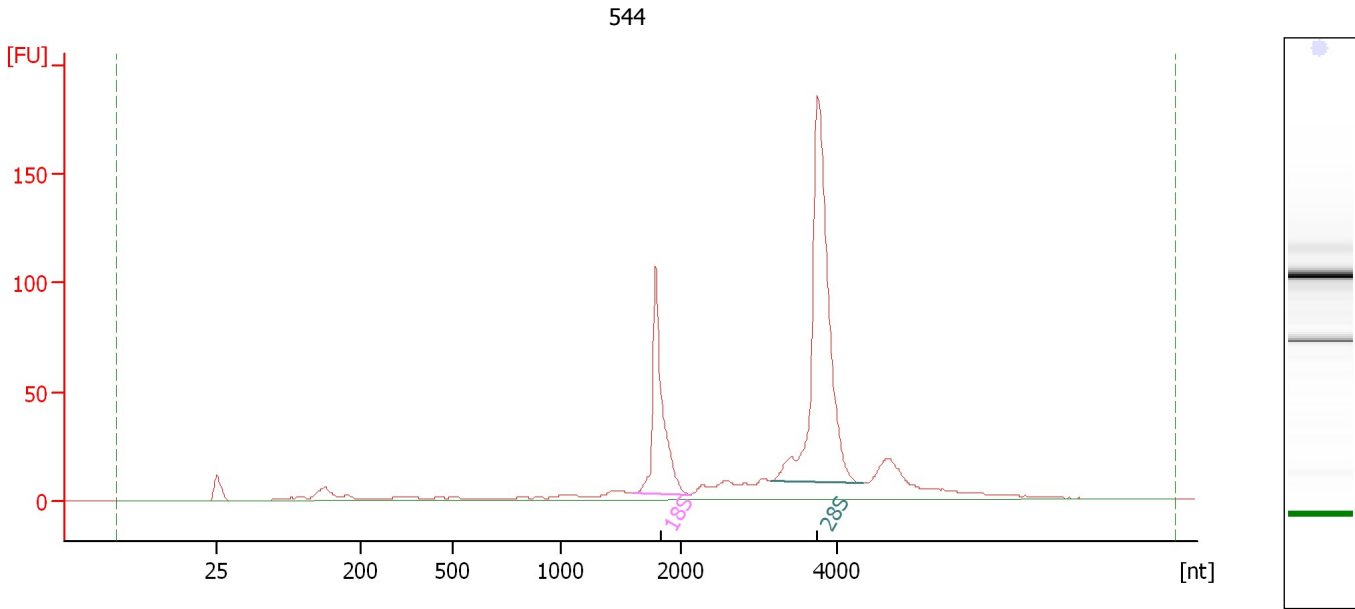
**Fragment table for sample 6 : 526**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	2,292	122.4	17.7
28S	3,567	4,430	103.1	14.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 544**

RNA Area:	723.4	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	550 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]:	2.5	Result Flagging Label:	RIN: 9.80

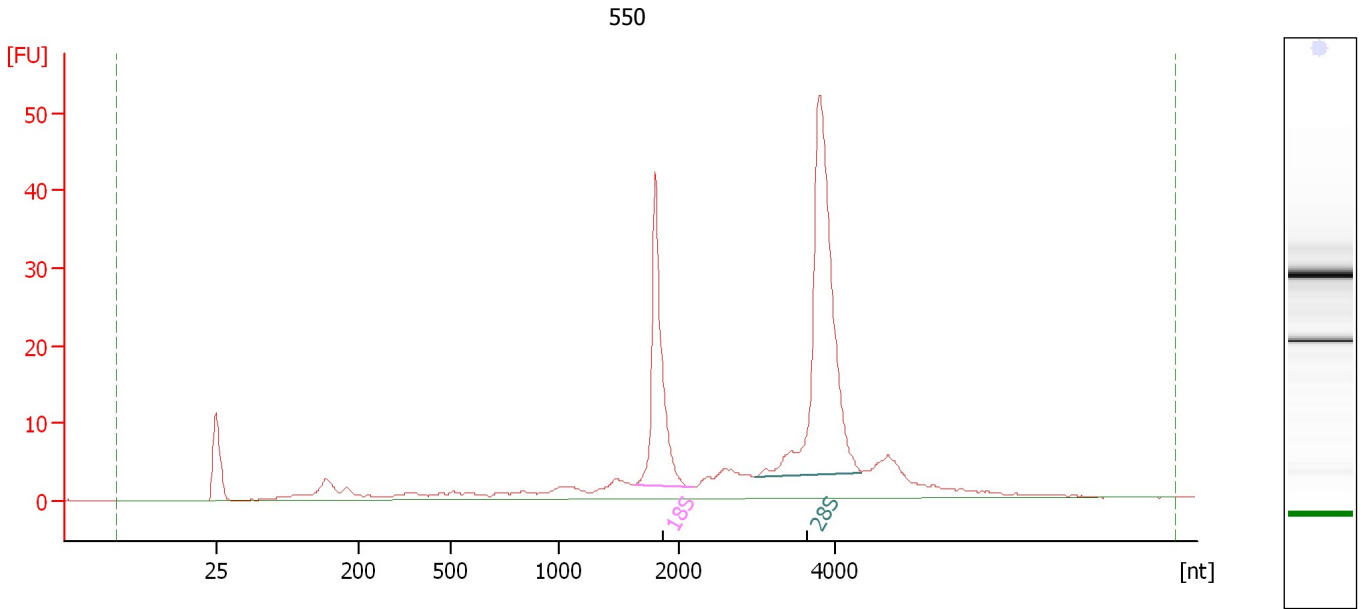
**Fragment table for sample 7 : 544**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	2,126	120.8	16.7
28S	3,157	4,352	300.5	41.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 550**

RNA Area: 267.4                      RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 203 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1              Result Flagging Label: RIN: 9.30

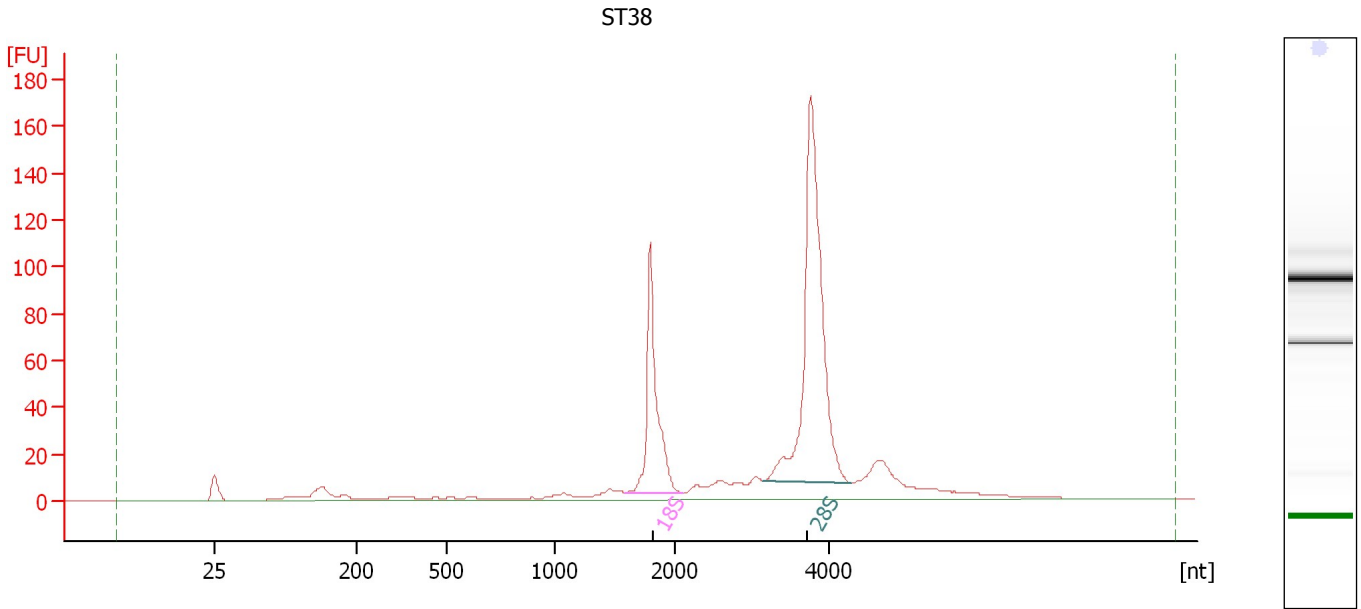
**Fragment table for sample 8 : 550**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	2,180	47.0	17.6
28S	2,979	4,355	97.6	36.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : ST38**

RNA Area:	704.8	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	535 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]:	2.4	Result Flagging Label:	RIN: 9.90

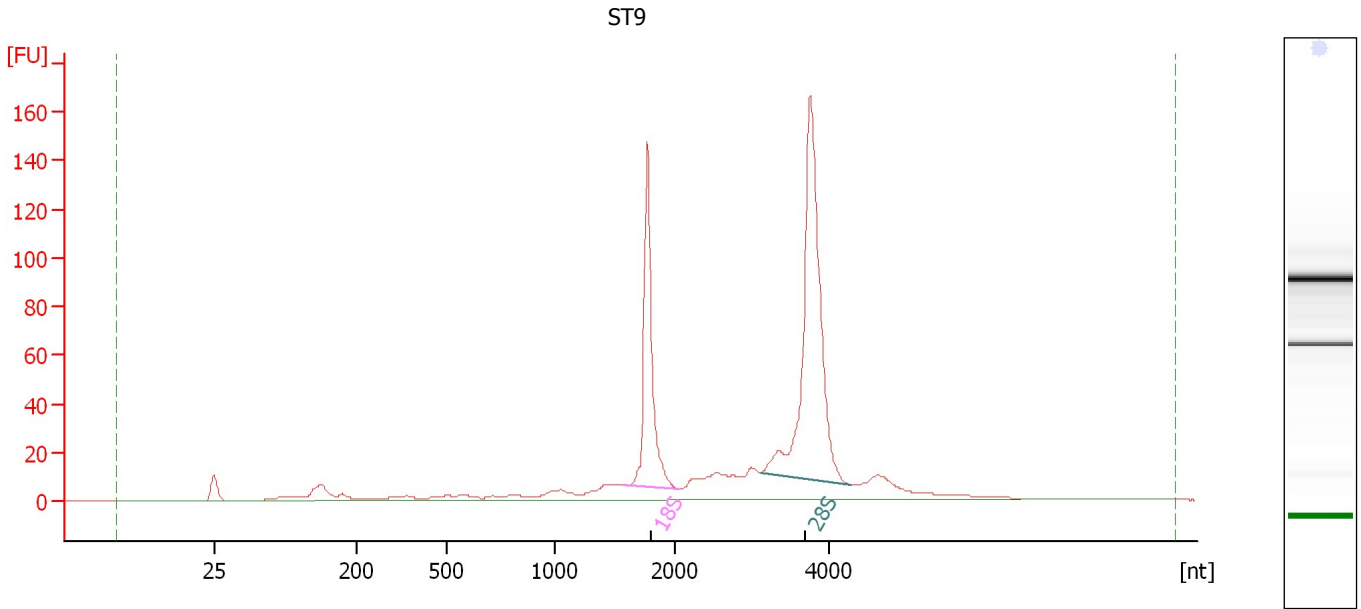
**Fragment table for sample 9 : ST38**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	2,095	123.3	17.5
28S	3,146	4,279	292.3	41.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : ST9**

RNA Area: 754.5                      RNA Integrity Number (RIN): 9.4 (B.02.08)  
RNA Concentration: 573 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1              Result Flagging Label: RIN: 9.40

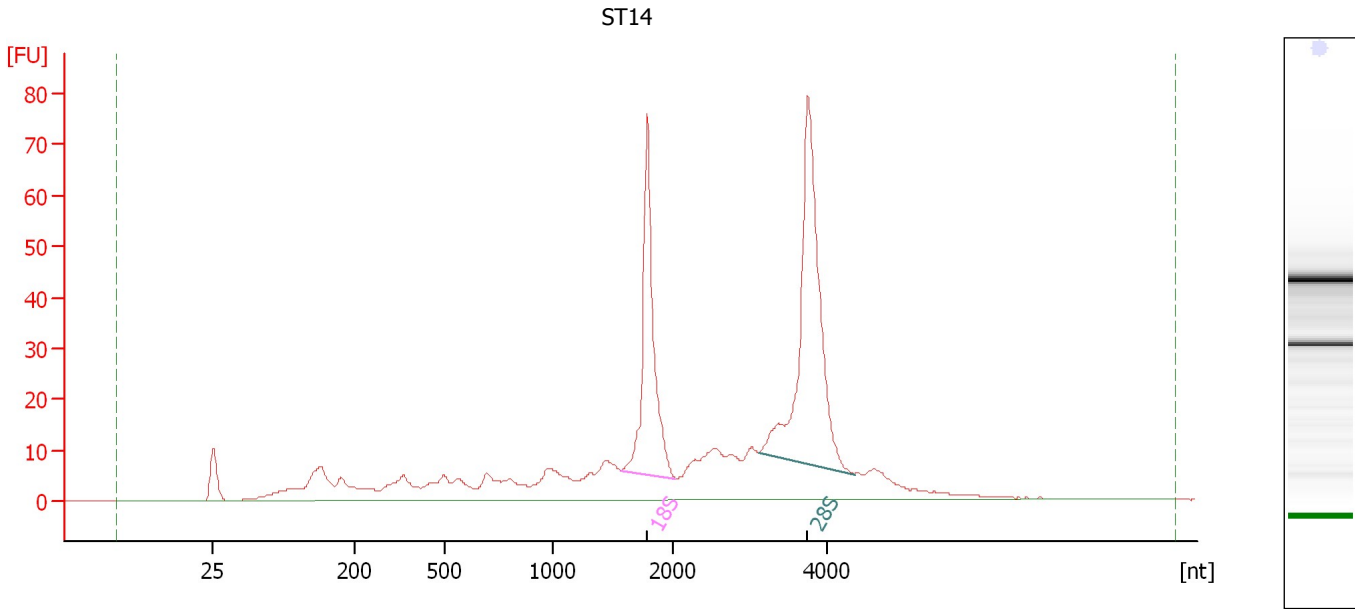
**Fragment table for sample 10 : ST9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	2,054	132.9	17.6
28S	3,118	4,279	275.6	36.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : ST14**

RNA Area:	605.2	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	460 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:8

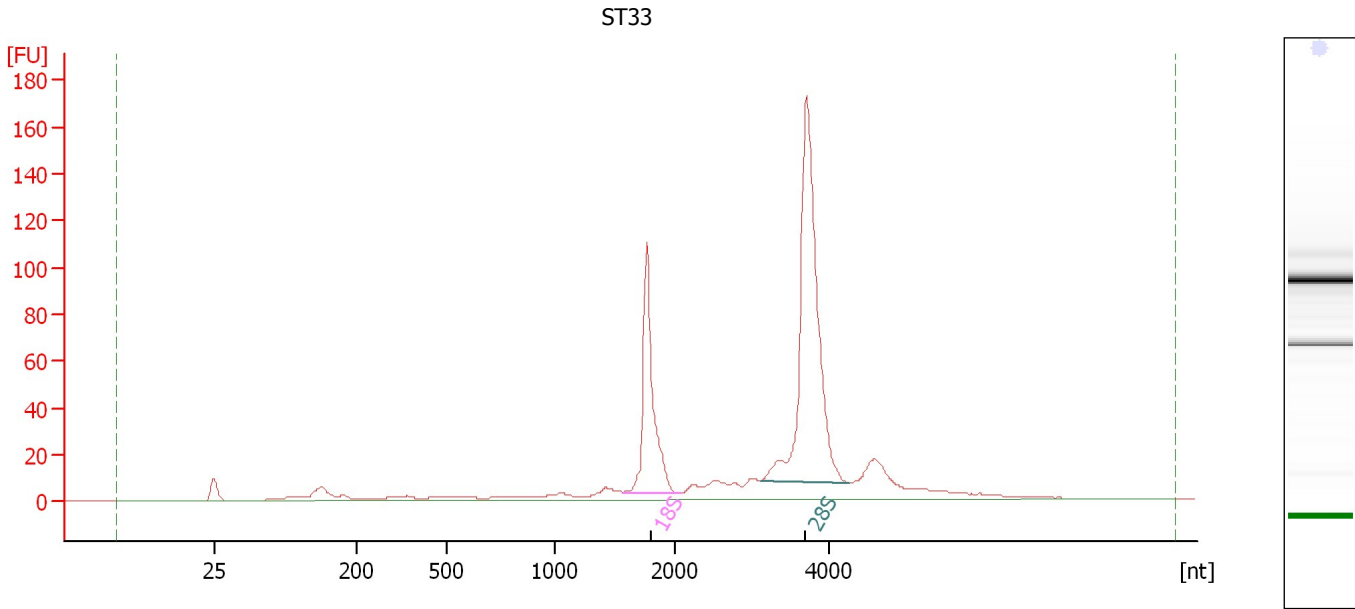
**Fragment table for sample 11 : ST14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	2,039	85.8	14.2
28S	3,105	4,352	143.2	23.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : ST33**

RNA Area: 705.2                      RNA Integrity Number (RIN): 9.8 (B.02.08)  
RNA Concentration: 536 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.3              Result Flagging Label: RIN: 9.80

**Fragment table for sample 12 : ST33**

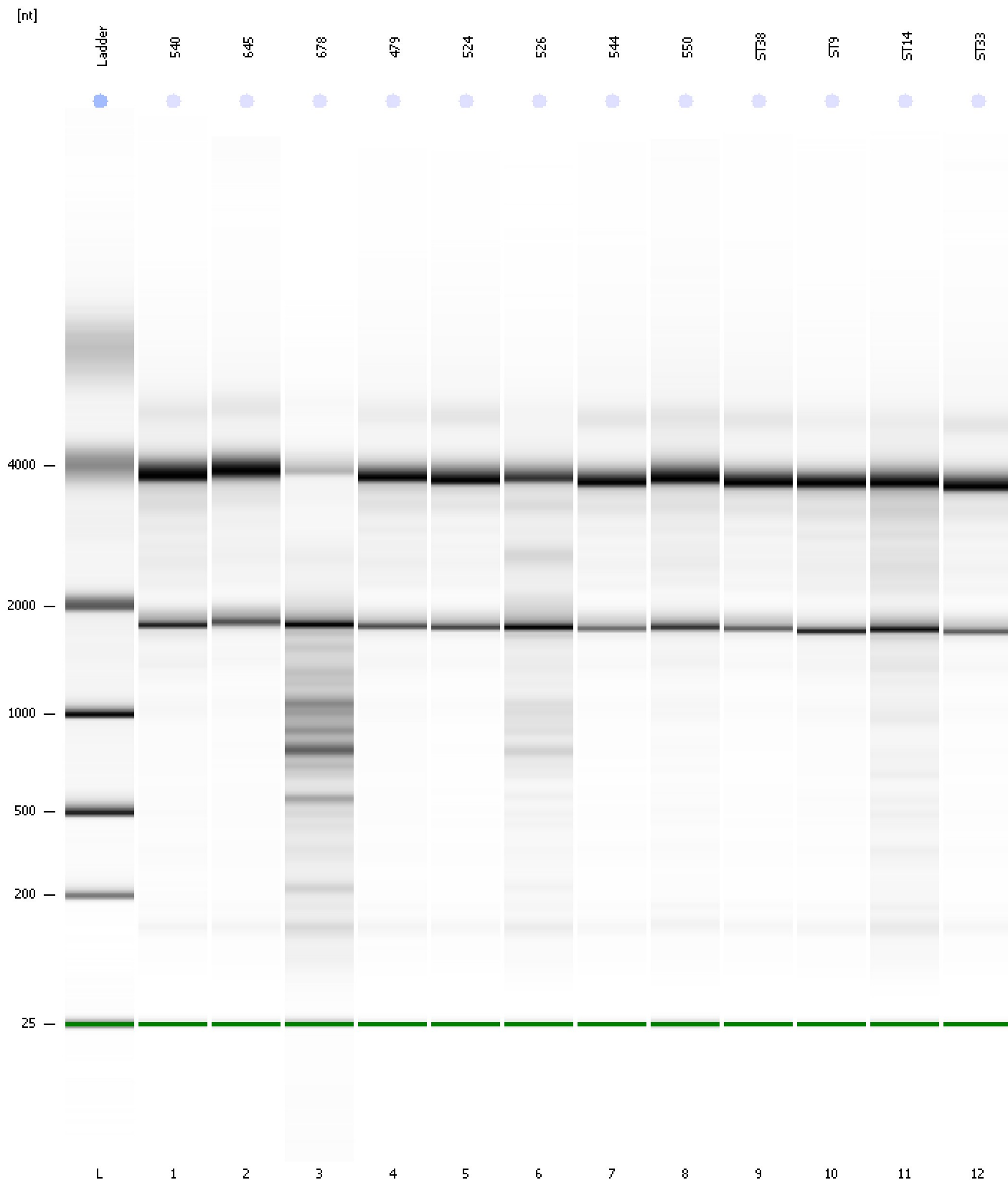
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	2,082	122.8	17.4
28S	3,104	4,265	288.5	40.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
Modified: 12/2/2015 9:41:21 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02\_001.xad

Created: 12/2/2015 9:17:29 AM  
 Modified: 12/2/2015 9:41:21 AM

**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		12/2/2015 9:41:20 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-02\2015-12-02_001.xad)		Instrument	Run		12/2/2015 9:17:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2015 9:17:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2015 9:17:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2015 9:17:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2015 9:17:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2015 9:17:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2015 9:17:35 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1