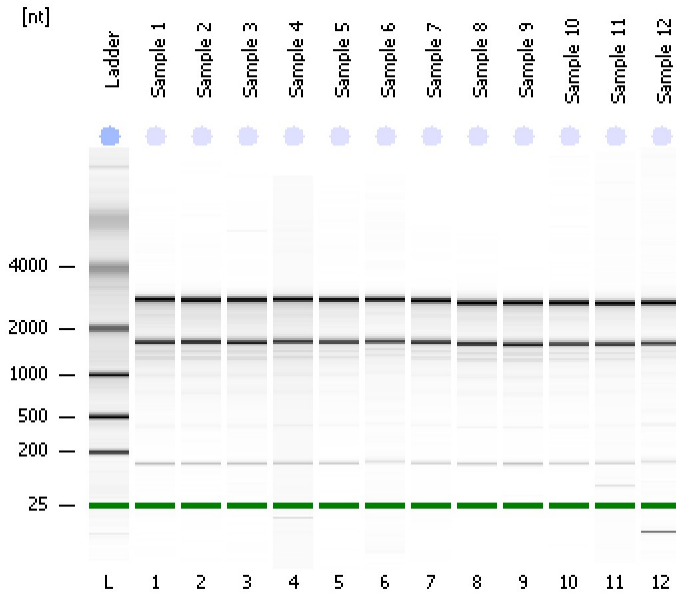


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 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\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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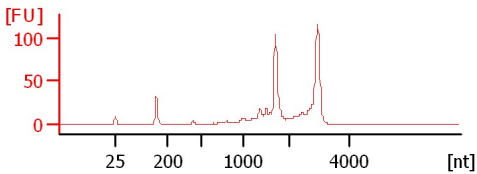
#### Chip Information:

Chip Lot #:

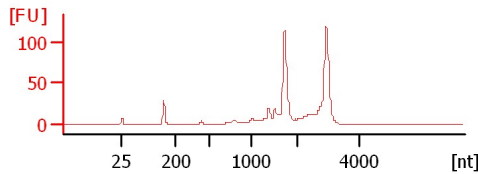
Reagent Kit Lot #:

Chip Comments:

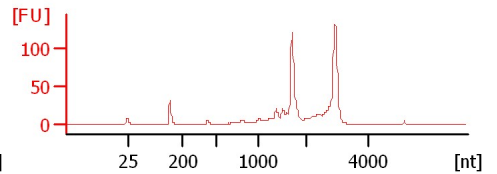
**Sample 1**  
RIN: 7.90



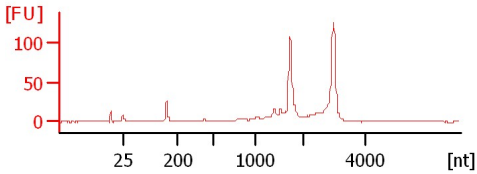
**Sample 2**  
RIN: 8.10



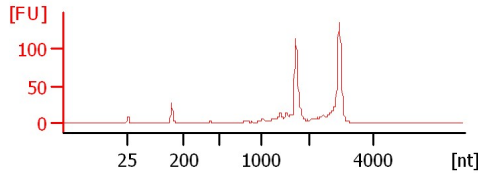
**Sample 3**  
RIN: 8.20



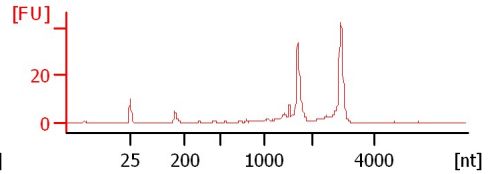
**Sample 4**  
RIN: 8.60



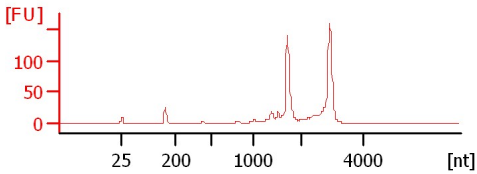
**Sample 5**  
RIN: 8.60



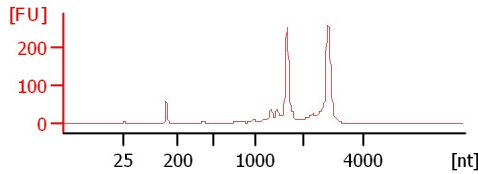
**Sample 6**  
RIN: 7.10



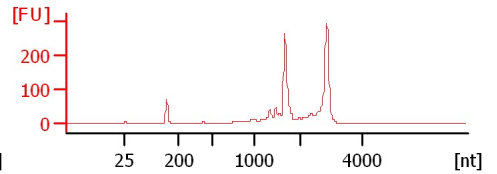
**Sample 7**  
RIN: 8.60



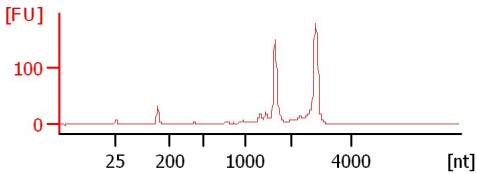
**Sample 8**  
RIN: 8.40



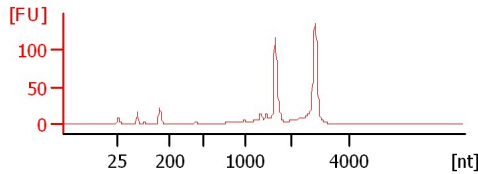
**Sample 9**  
RIN: 8.30



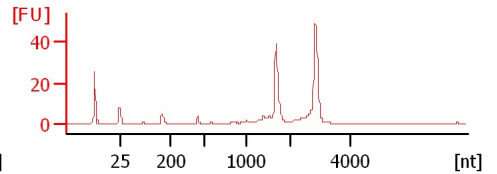
**Sample 10**  
RIN: 8.90



**Sample 11**  
RIN: 9



**Sample 12**  
RIN: 9.20



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 7.90	
Sample 2		✓	RIN: 8.10	
Sample 3		✓	RIN: 8.20	
Sample 4		✓	RIN: 8.60	
Sample 5		✓	RIN: 8.60	
Sample 6		✓	RIN: 7.10	
Sample 7		✓	RIN: 8.60	
Sample 8		✓	RIN: 8.40	
Sample 9		✓	RIN: 8.30	
Sample 10		✓	RIN: 8.90	
Sample 11		✓	RIN:9	
Sample 12		✓	RIN: 9.20	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 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] : 0.2  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

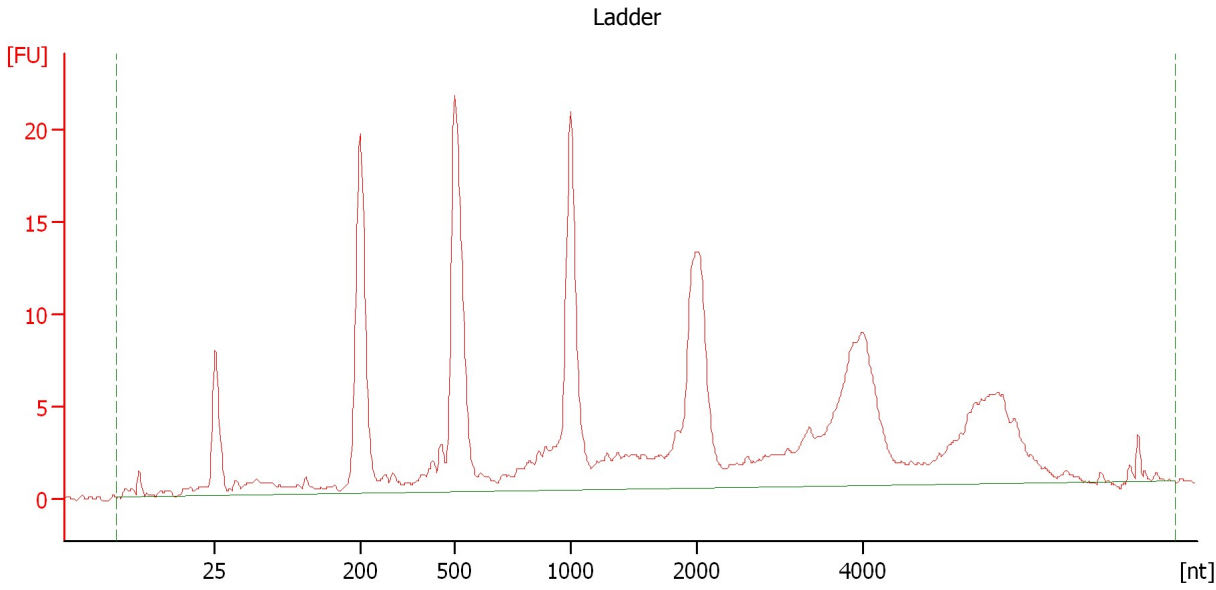
### Ladder

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

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary**



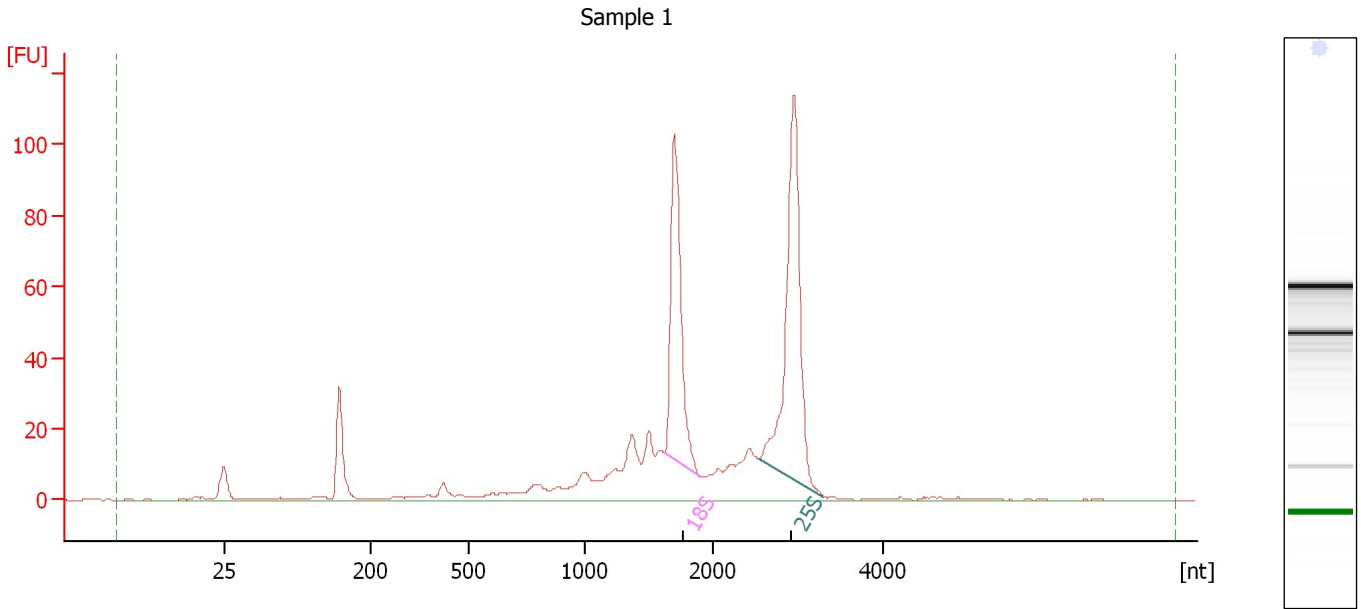
**Overall Results for Ladder**

RNA Area:	263.7	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: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	605.5	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	344 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 7.90

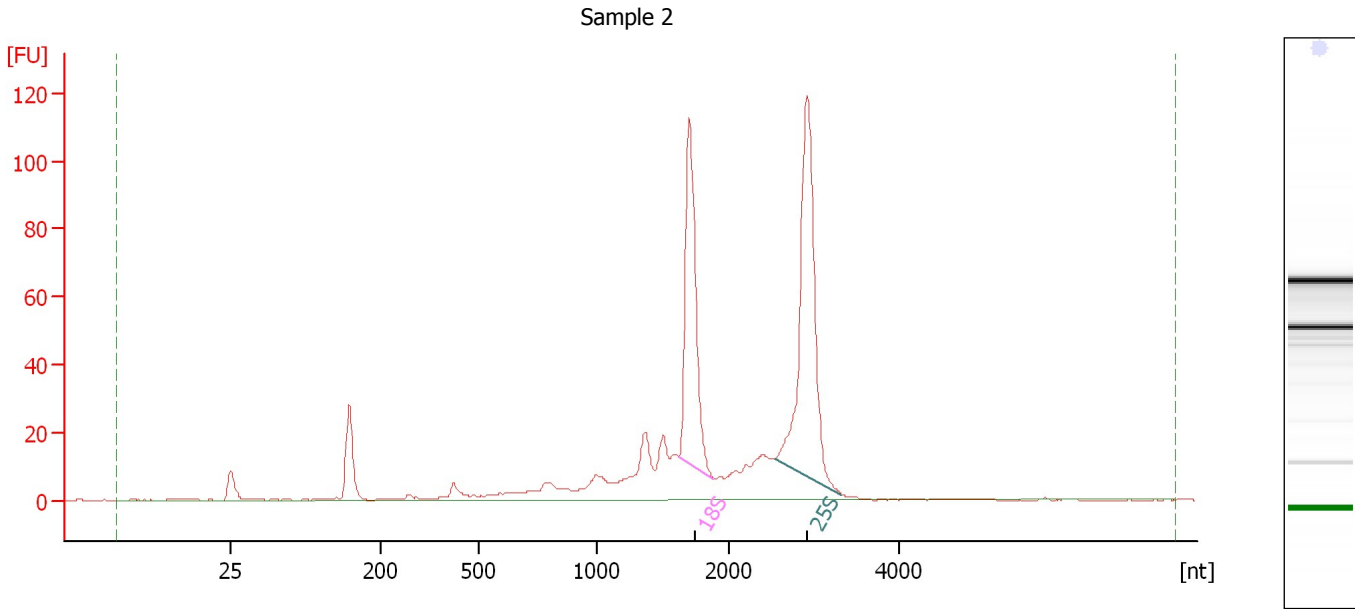
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,896	109.0	18.0
25S	2,539	3,301	157.9	26.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	613.7	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	349 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 8.10

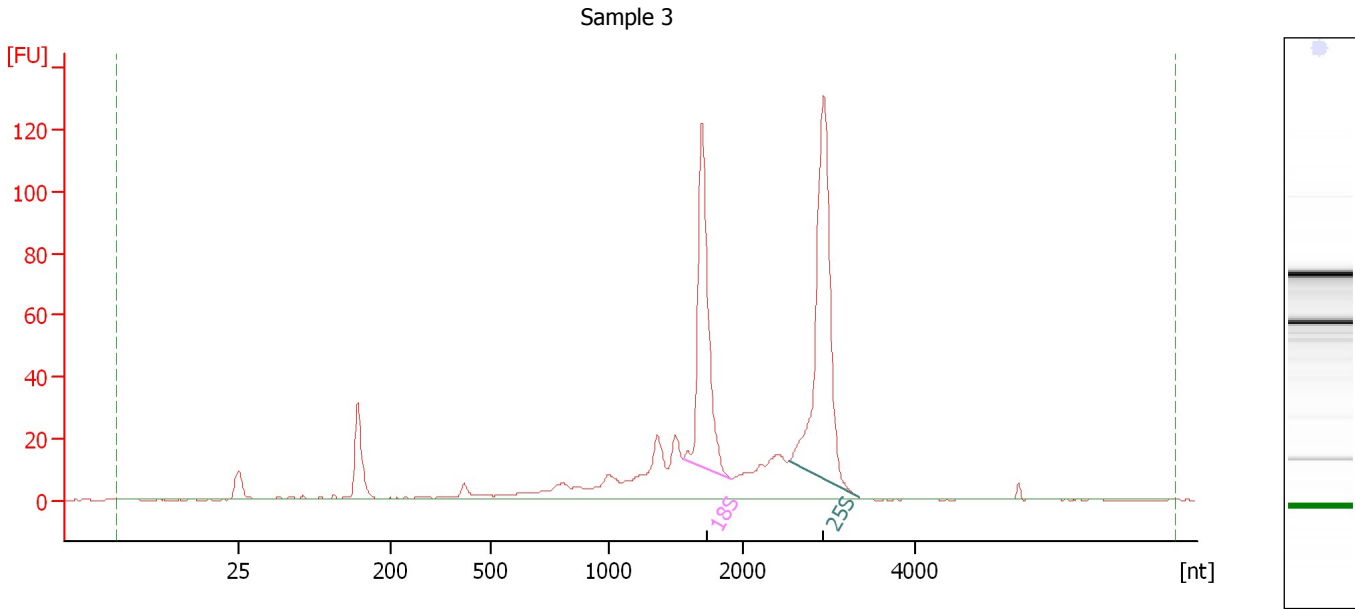
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	1,885	121.7	19.8
25S	2,537	3,326	169.8	27.7

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	652.8	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	371 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 8.20

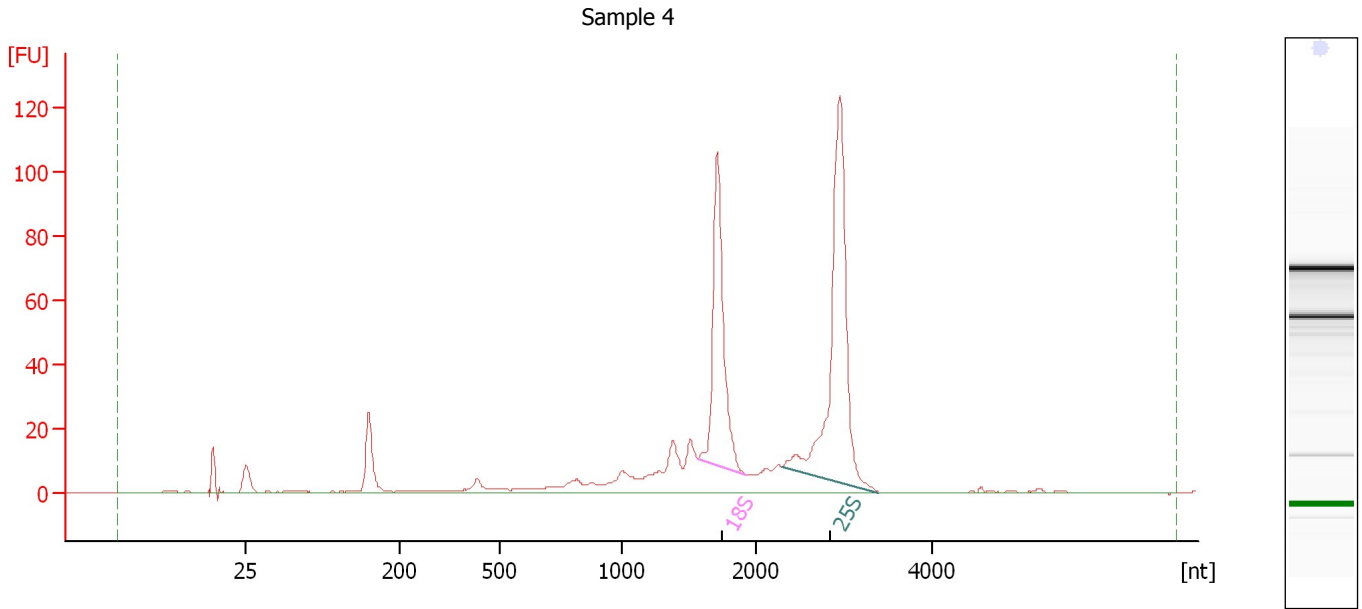
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,545	1,906	133.8	20.5
25S	2,523	3,337	183.4	28.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	580.9	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	330 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 8.60

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

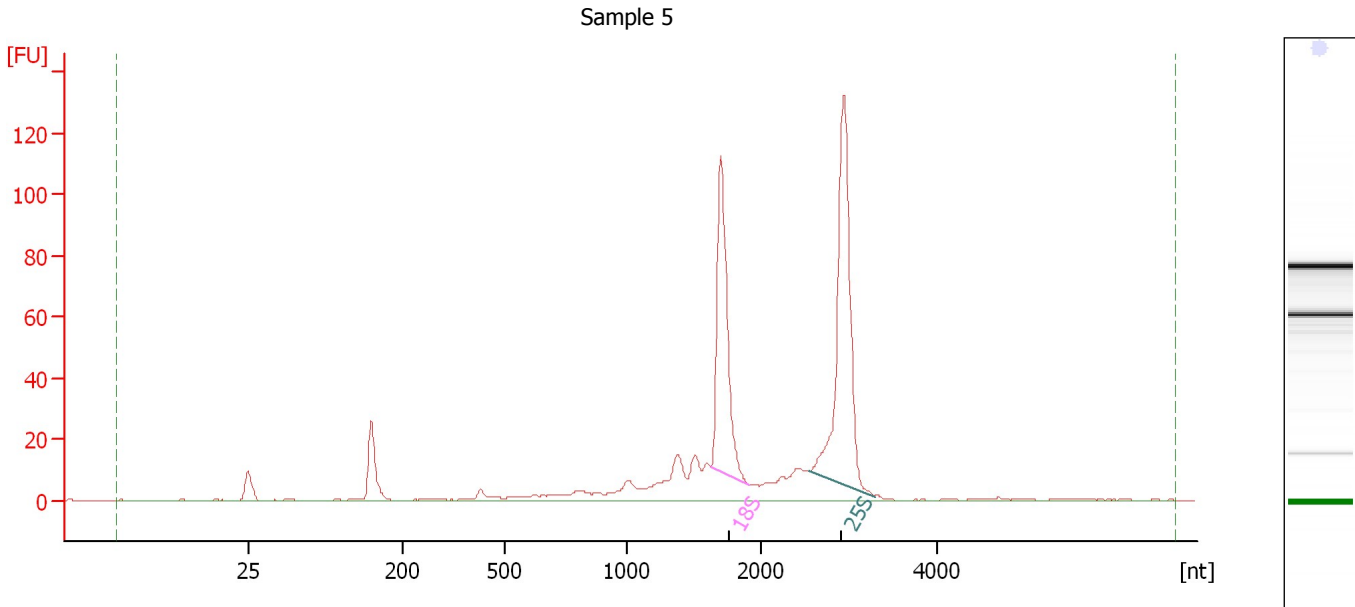
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,561	1,918	117.7	20.3
25S	2,302	3,399	181.1	31.2



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	528.3	RNA Integrity Number (RIN):	8.6 (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 [25s / 18s]:	1.4	Result Flagging Label:	RIN: 8.60

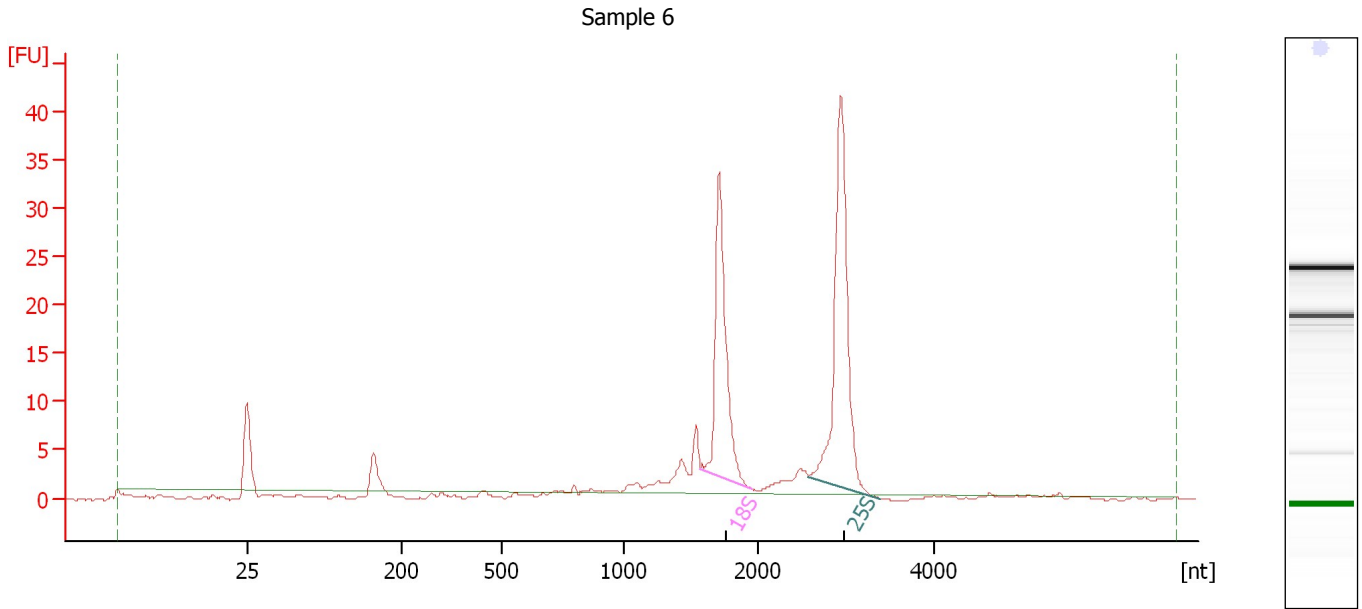
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,905	117.5	22.2
25S	2,533	3,285	168.0	31.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	127.1	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	72 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 7.10

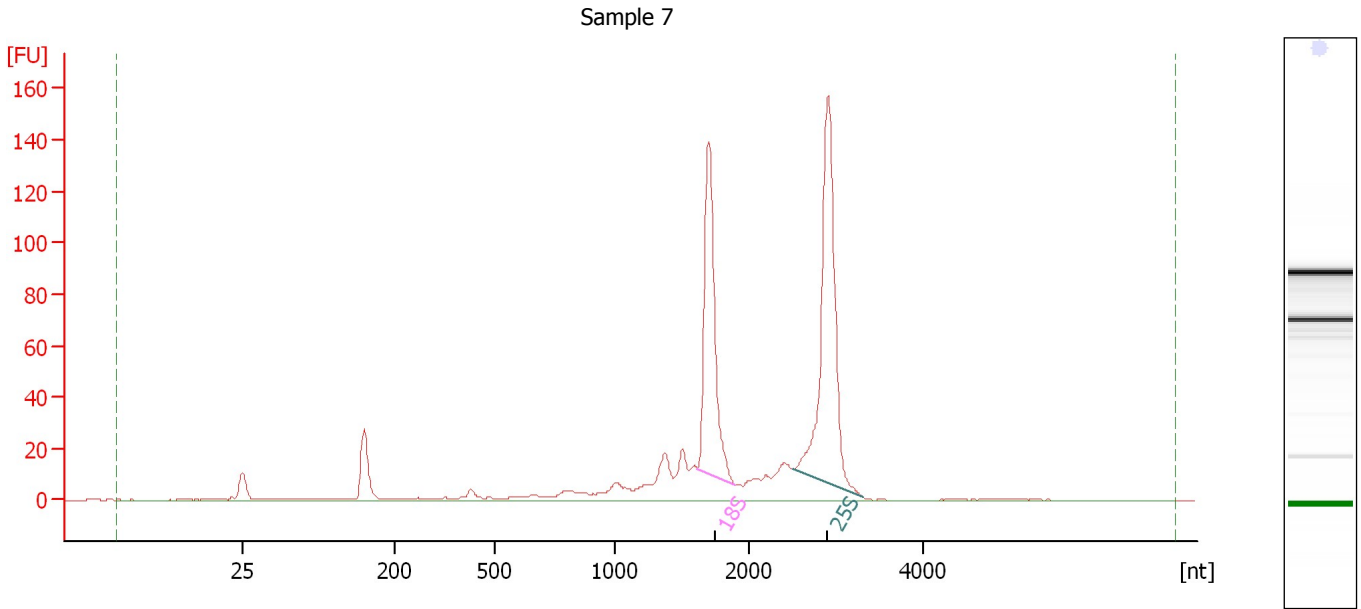
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,570	1,959	37.7	29.7
25S	2,570	3,398	51.5	40.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	657.9	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	374 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 8.60

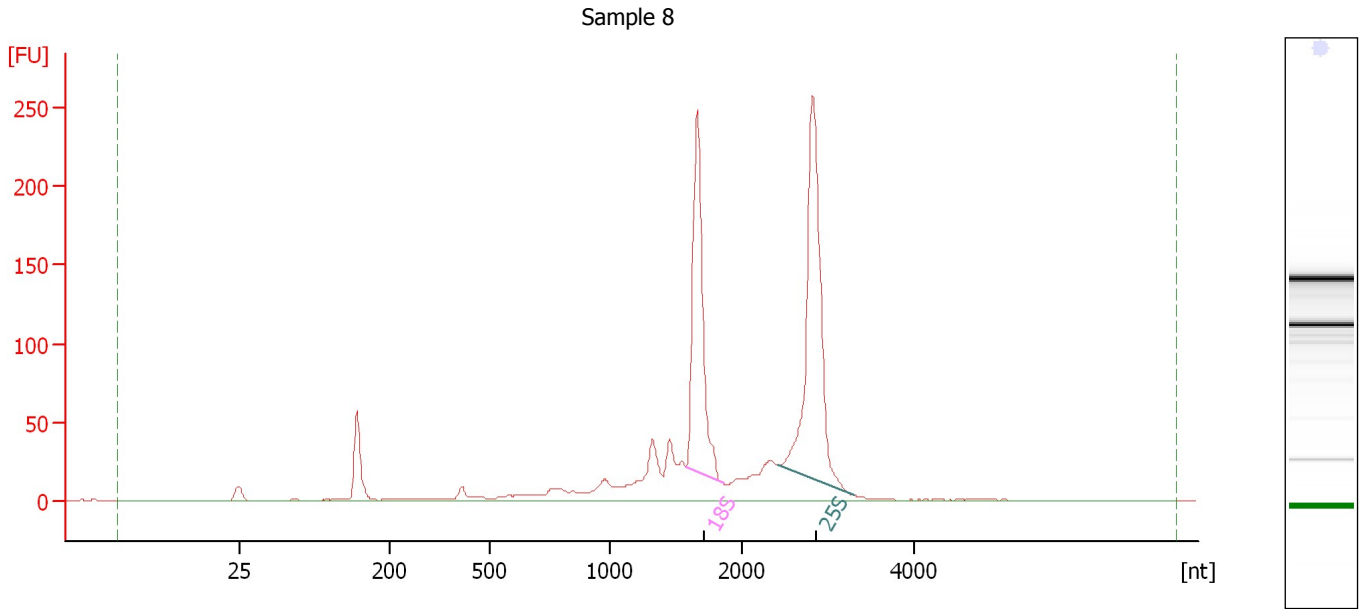
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,900	149.0	22.6
25S	2,498	3,320	211.2	32.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,197.1	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	681 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 8.40

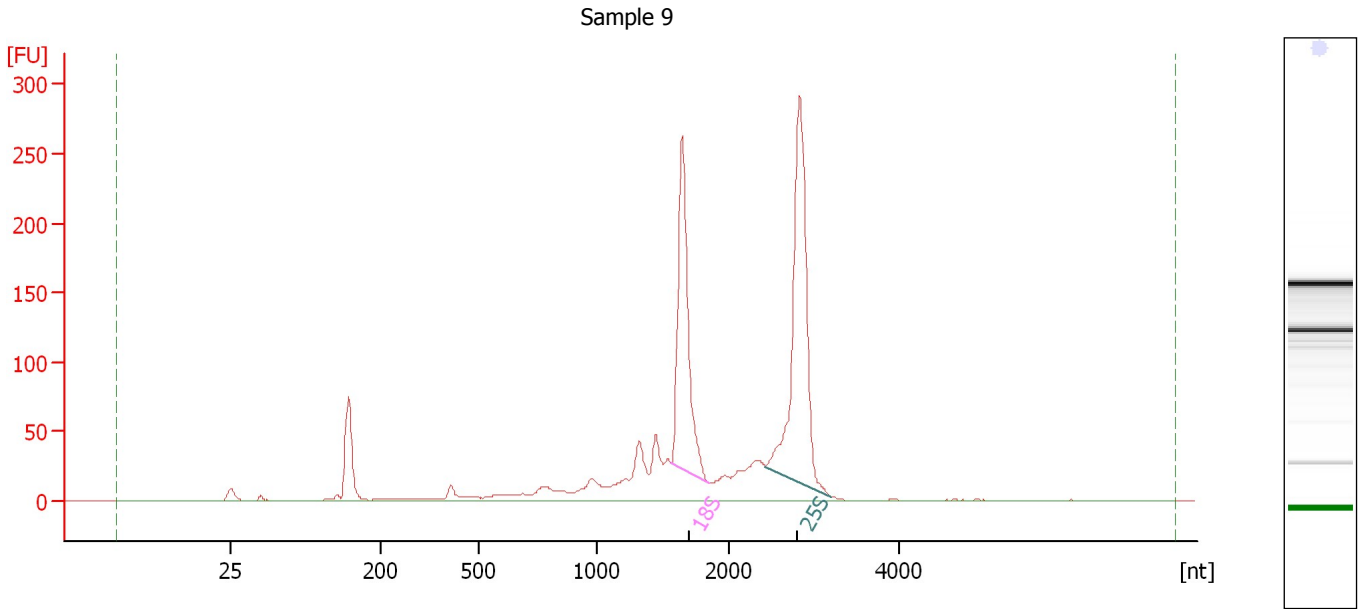
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,865	261.8	21.9
25S	2,412	3,290	360.4	30.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	1,359.0	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	773 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.4	Result Flagging Label:	RIN: 8.30

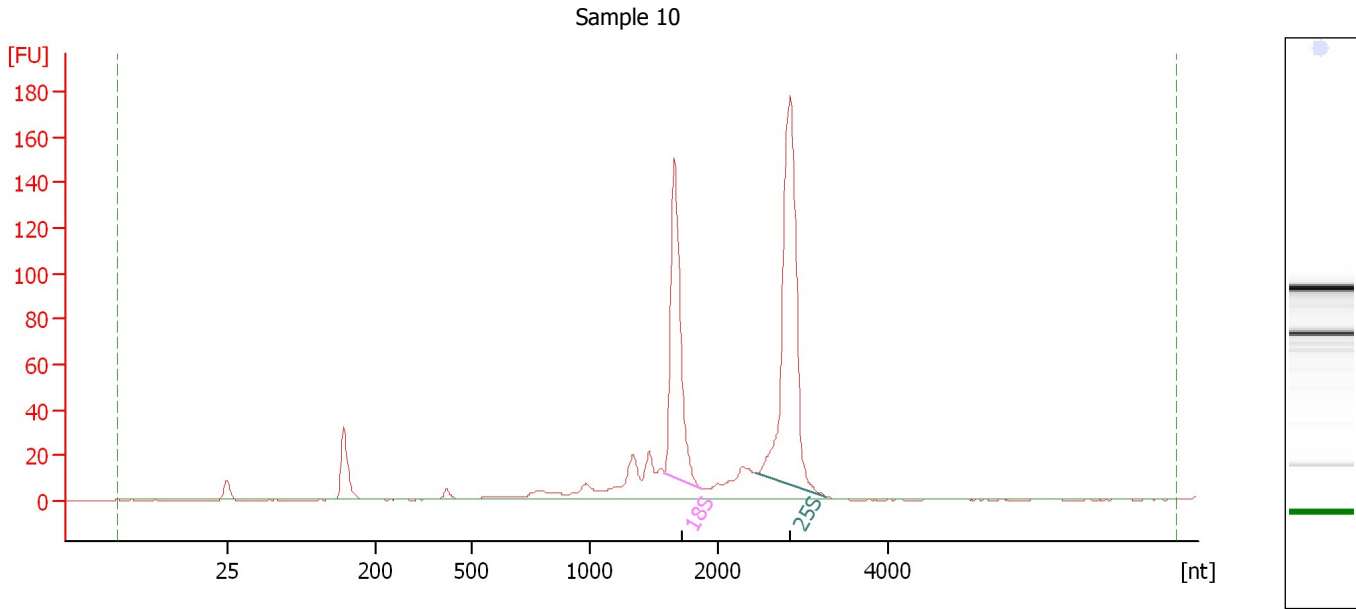
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,853	286.7	21.1
25S	2,437	3,213	392.1	28.8

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	683.1	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	389 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	1.6	Result Flagging Label:	RIN: 8.90

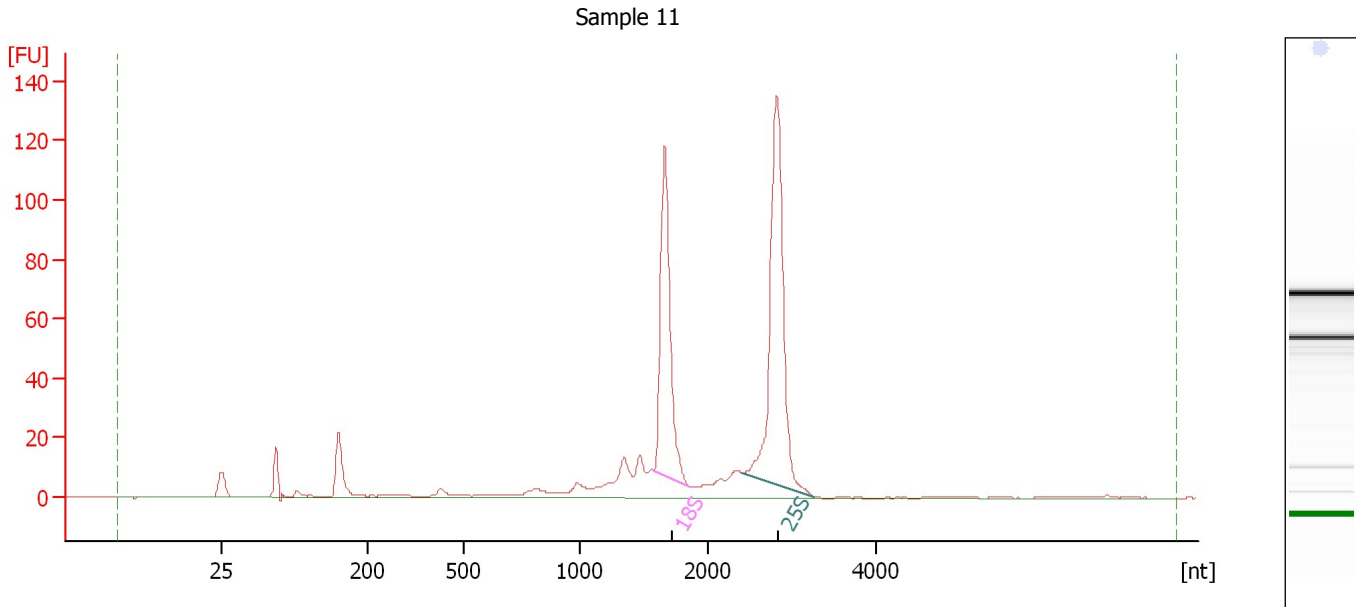
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,873	158.8	23.2
25S	2,437	3,272	250.0	36.6

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 533.0                      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 303 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5                      Result Flagging Label: RIN:9

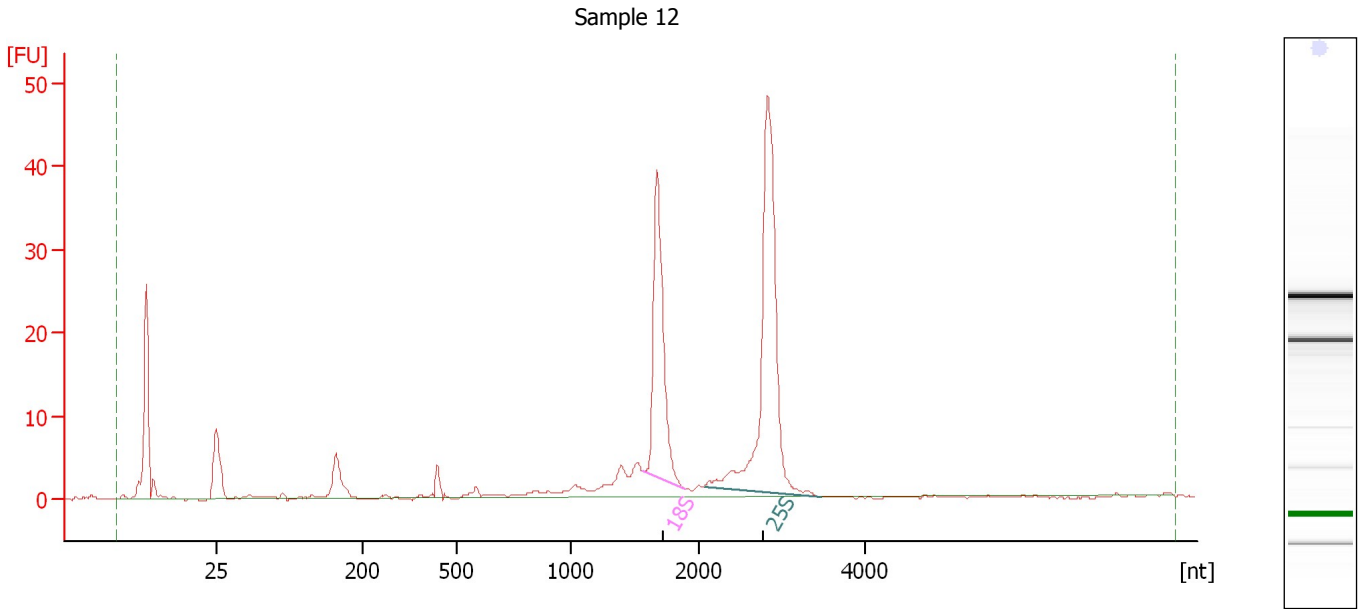
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,570	1,861	124.8	23.4
25S	2,399	3,268	183.5	34.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Electropherogram Summary Continued ...**



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

RNA Area: 207.1                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 118 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.7                      Result Flagging Label: RIN: 9.20

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

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,564	1,883	42.8	20.7
25S	2,065	3,455	74.6	36.0



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-16\2017-10-16\_001.xad

Created: 10/16/2017 3:04:49 PM  
Modified: 10/16/2017 3:36:41 PM

**Gel Image**

