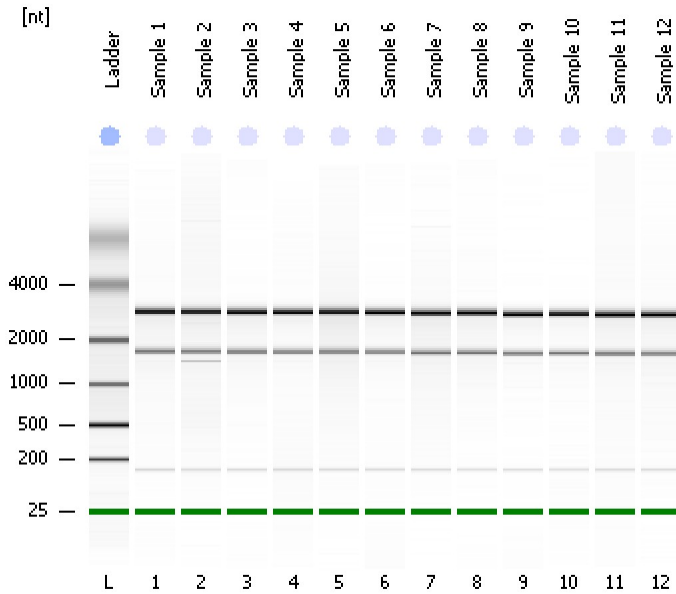


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 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\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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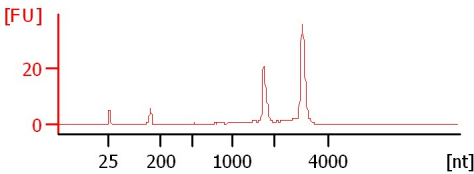
#### Chip Information:

Chip Lot #:

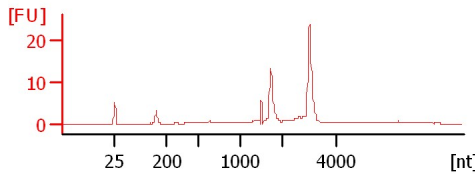
Reagent Kit Lot #:

Chip Comments:

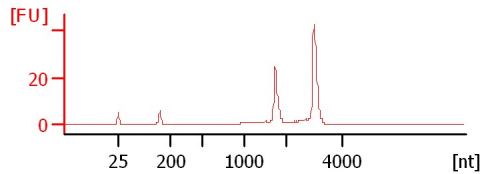
**Sample 1**  
RIN: 9.20



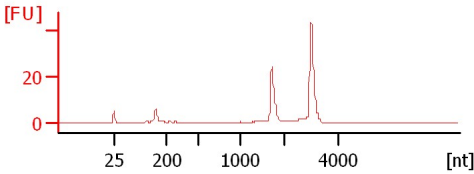
**Sample 2**  
RIN: 8.50



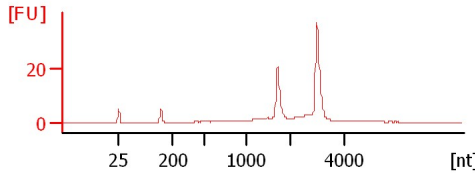
**Sample 3**  
RIN: 9.40



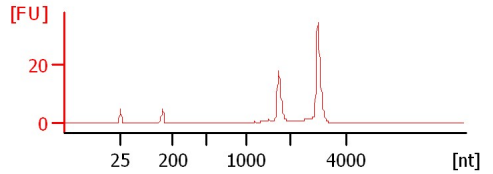
**Sample 4**  
RIN: 9.40



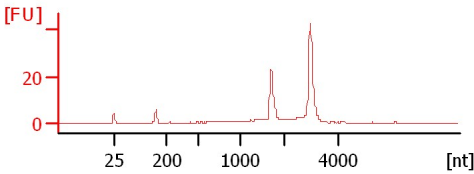
**Sample 5**  
RIN: 8.80



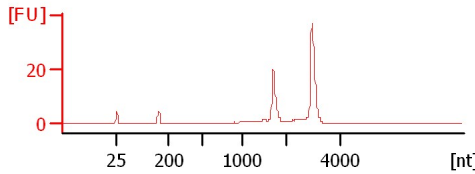
**Sample 6**  
RIN: 9.60



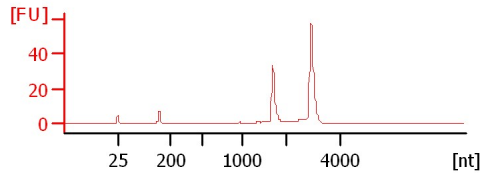
**Sample 7**  
RIN: 8.70



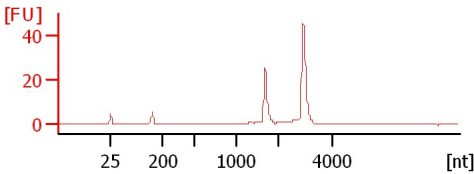
**Sample 8**  
RIN: 9.20



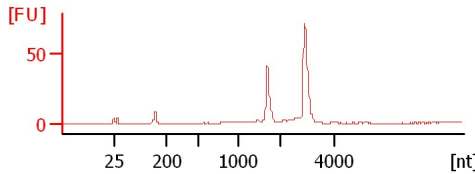
**Sample 9**  
RIN: 9.90



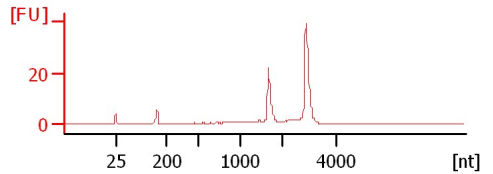
**Sample 10**  
RIN: 9.80



**Sample 11**  
RIN: 9.80



**Sample 12**  
RIN: 8.90



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 9.20	
Sample 2		✓	RIN: 8.50	
Sample 3		✓	RIN: 9.40	
Sample 4		✓	RIN: 9.40	
Sample 5		✓	RIN: 8.80	
Sample 6		✓	RIN: 9.60	
Sample 7		✓	RIN: 8.70	
Sample 8		✓	RIN: 9.20	
Sample 9		✓	RIN: 9.90	
Sample 10		✓	RIN: 9.80	
Sample 11		✓	RIN: 9.80	
Sample 12		✓	RIN: 8.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 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] : 0.2  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

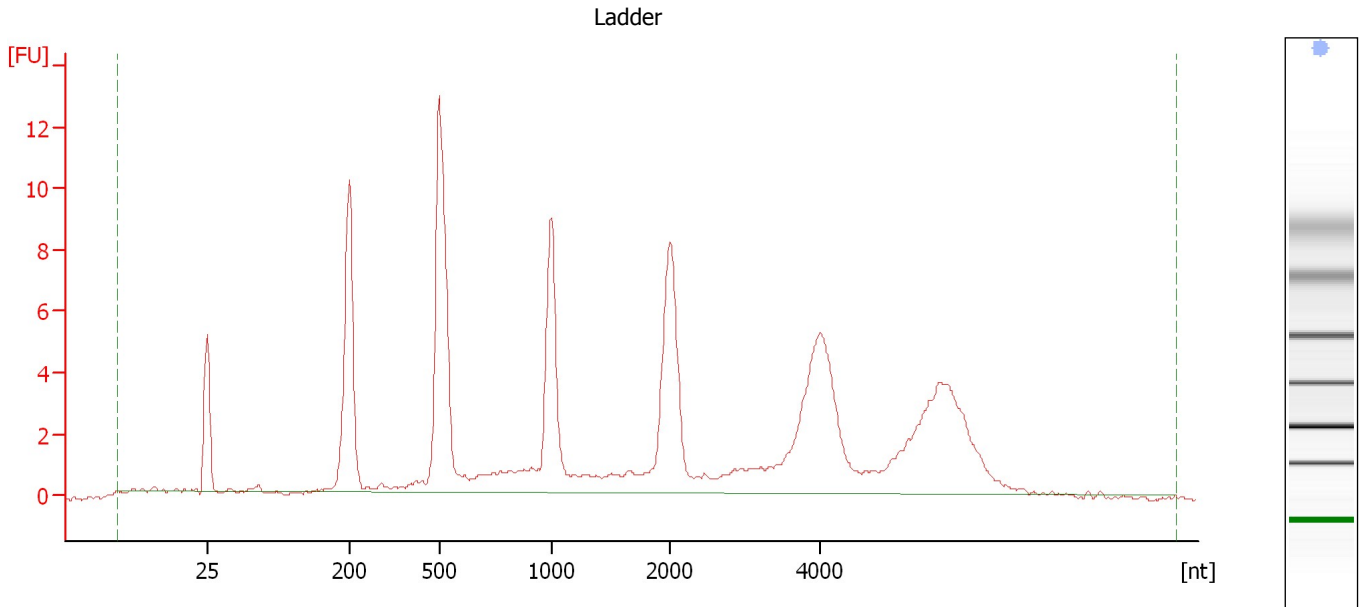
### Ladder

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\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary**



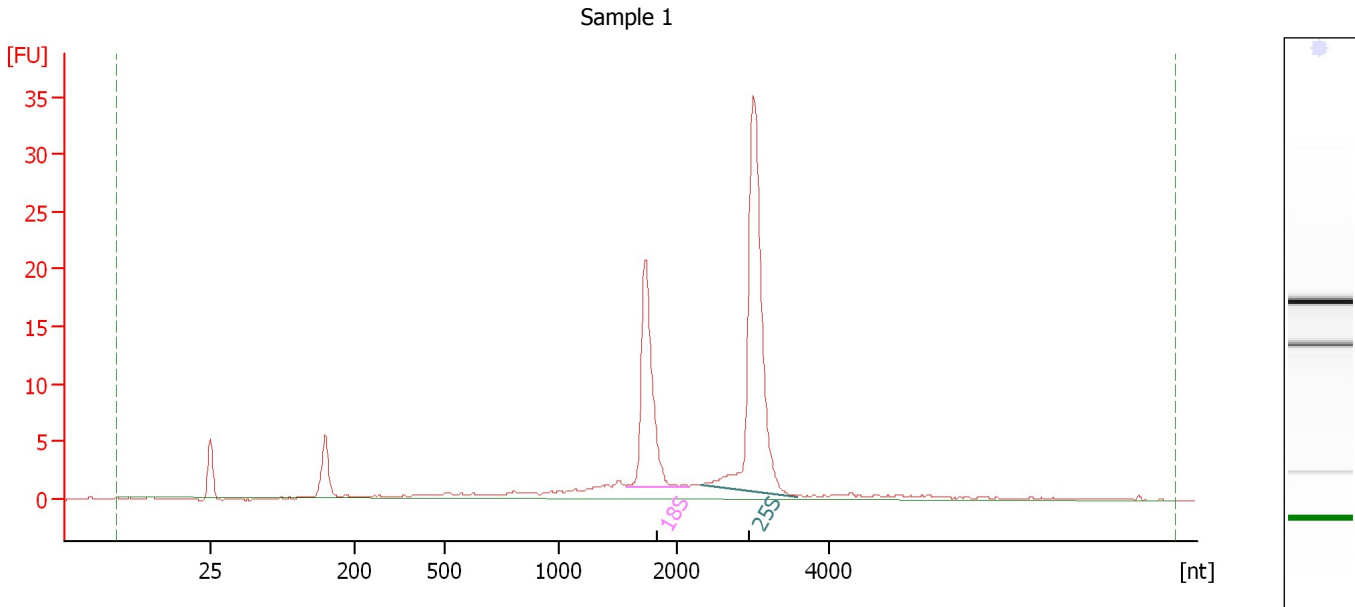
**Overall Results for Ladder**

RNA Area:	122.9	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\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	122.1	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	149 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]:	2.0	Result Flagging Label:	RIN: 9.20

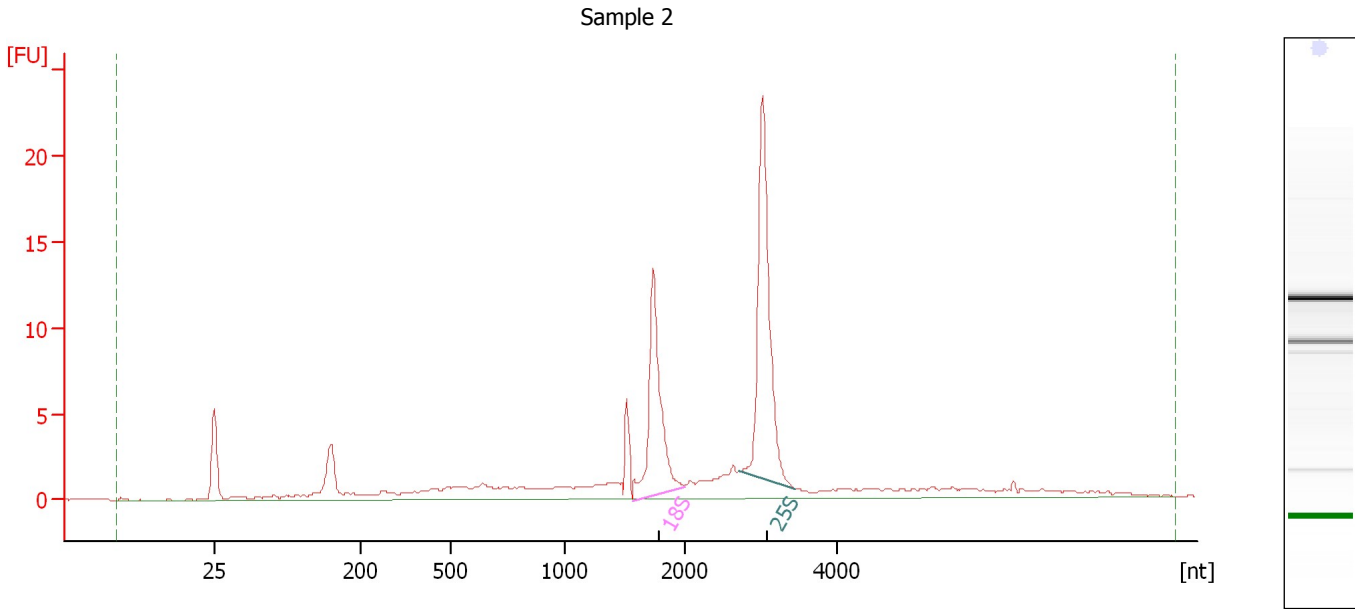
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,574	2,160	25.3	20.7
25S	2,316	3,591	49.9	40.9

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	101.3	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	124 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: 8.50

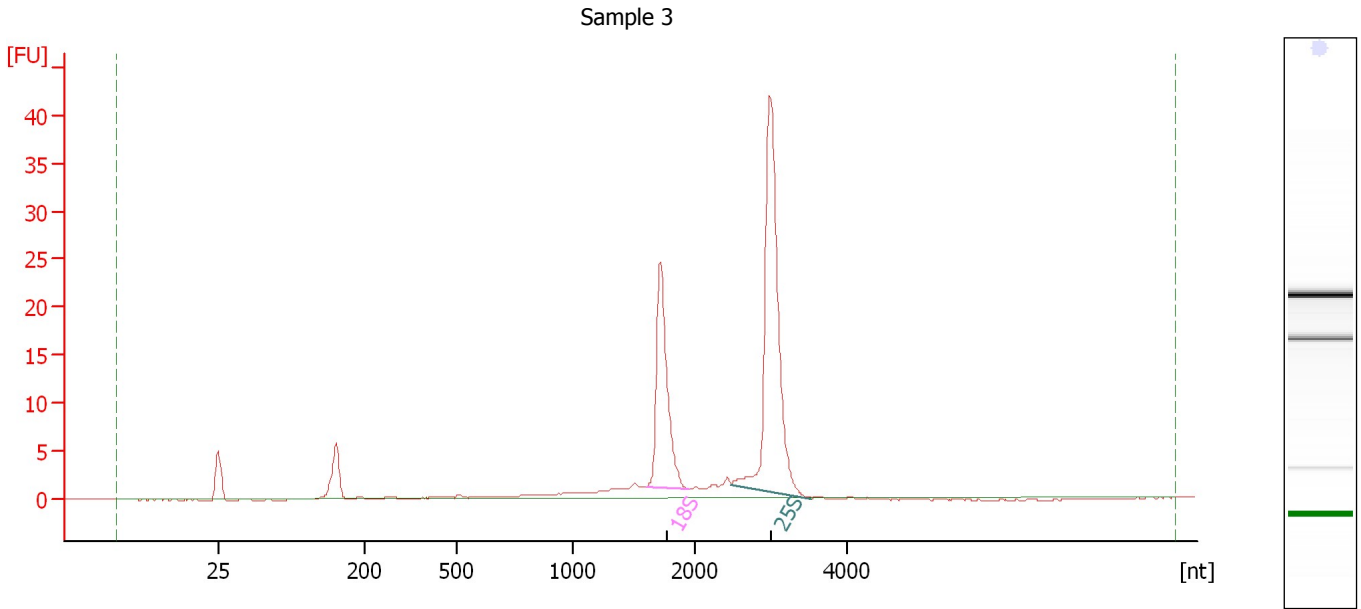
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,554	1,988	18.2	18.0
25S	2,711	3,442	27.4	27.1

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	123.6	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	151 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]:	2.0	Result Flagging Label:	RIN: 9.40

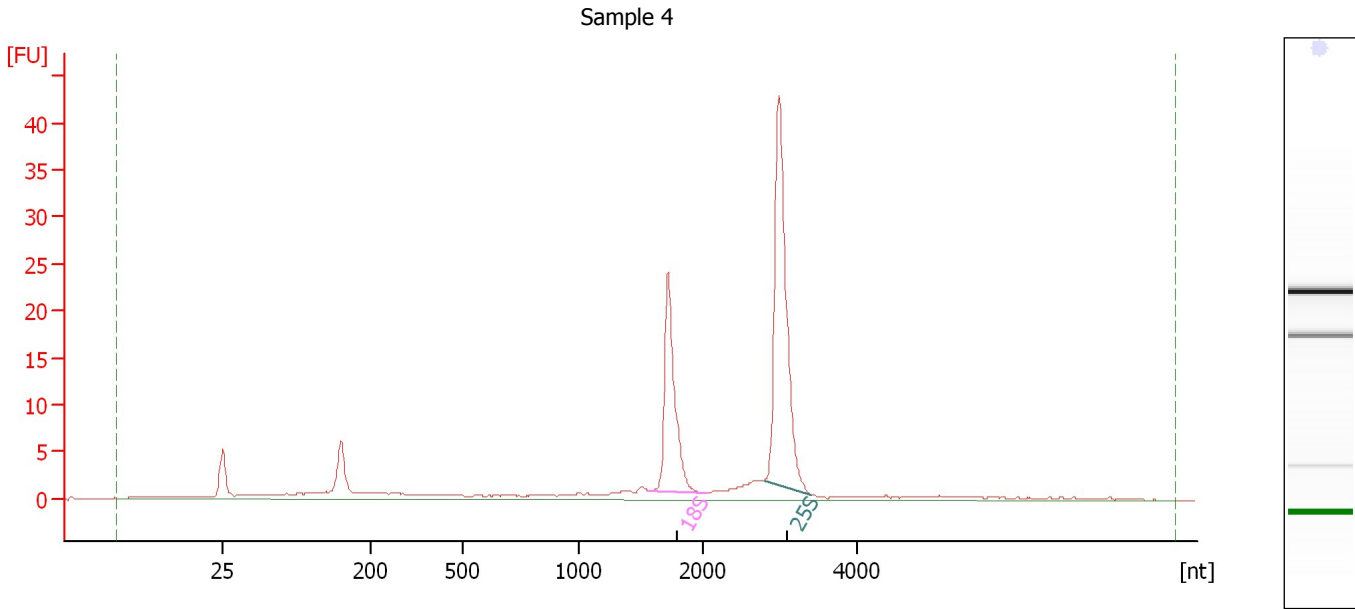
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,964	29.3	23.7
25S	2,487	3,532	57.3	46.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area: 140.9                      RNA Integrity Number (RIN): 9.4 (B.02.08)  
RNA Concentration: 172 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.9                      Result Flagging Label: RIN: 9.40

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

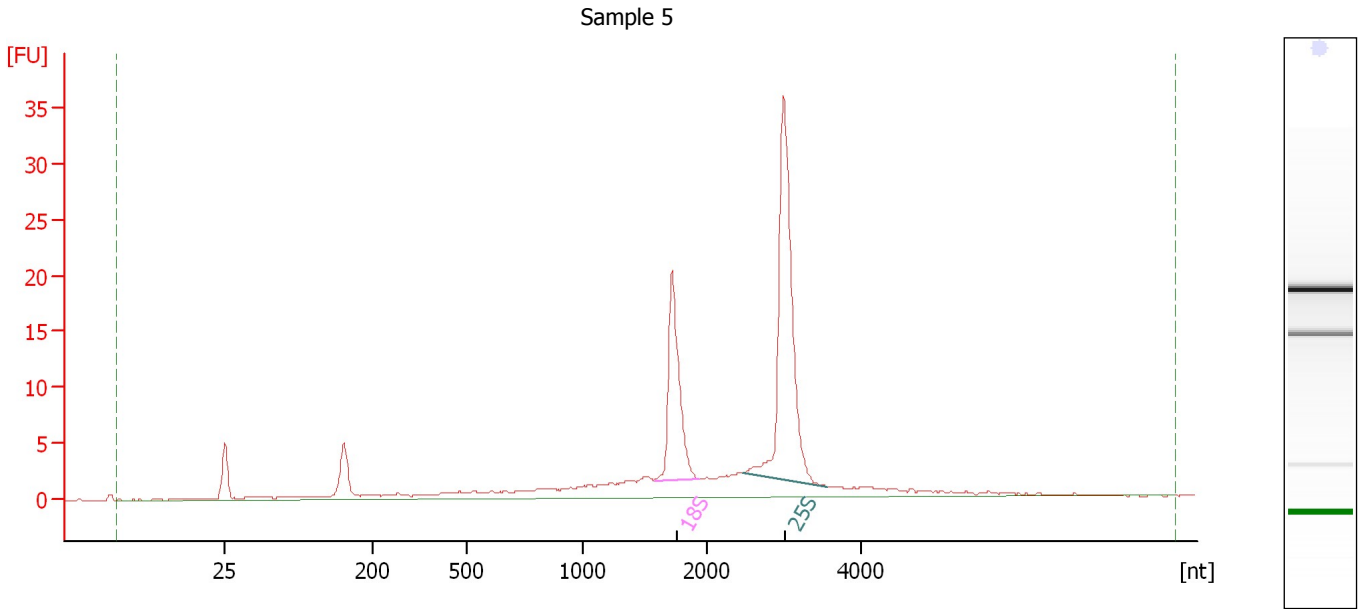
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	2,059	28.2	20.0
25S	2,805	3,413	52.2	37.0



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	148.6	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	181 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]:	2.0	Result Flagging Label:	RIN: 8.80

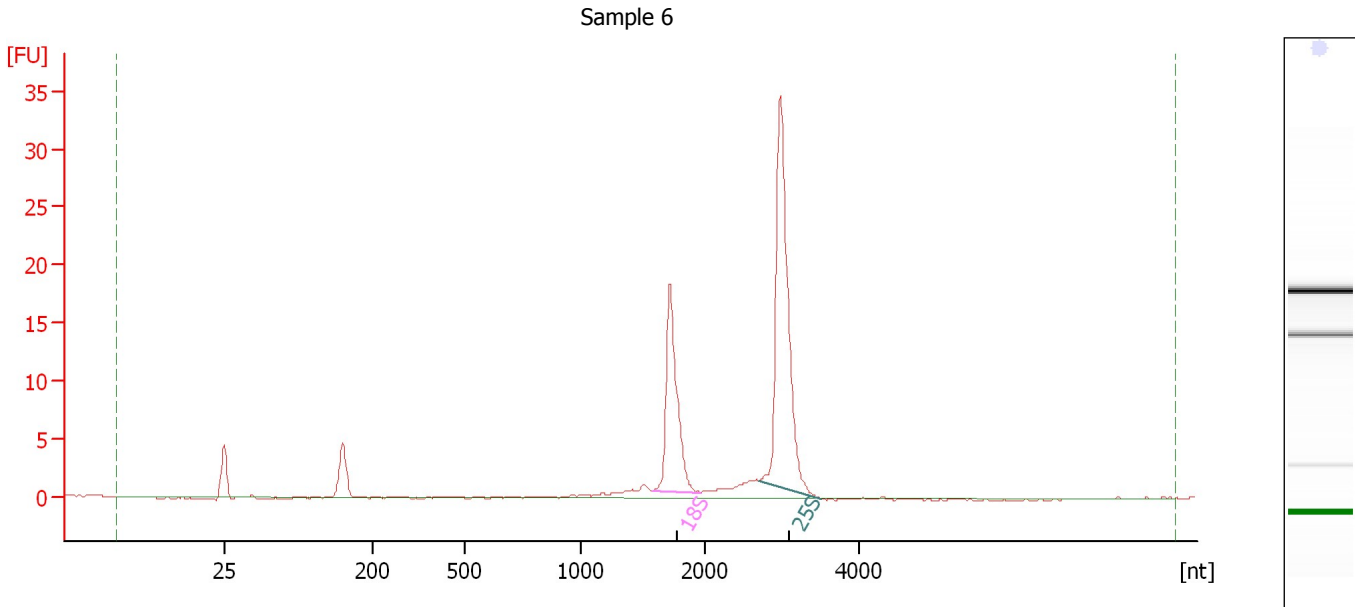
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	1,943	23.4	15.7
25S	2,474	3,548	47.5	32.0

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	88.6	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	108 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]:	1.9	Result Flagging Label:	RIN: 9.60

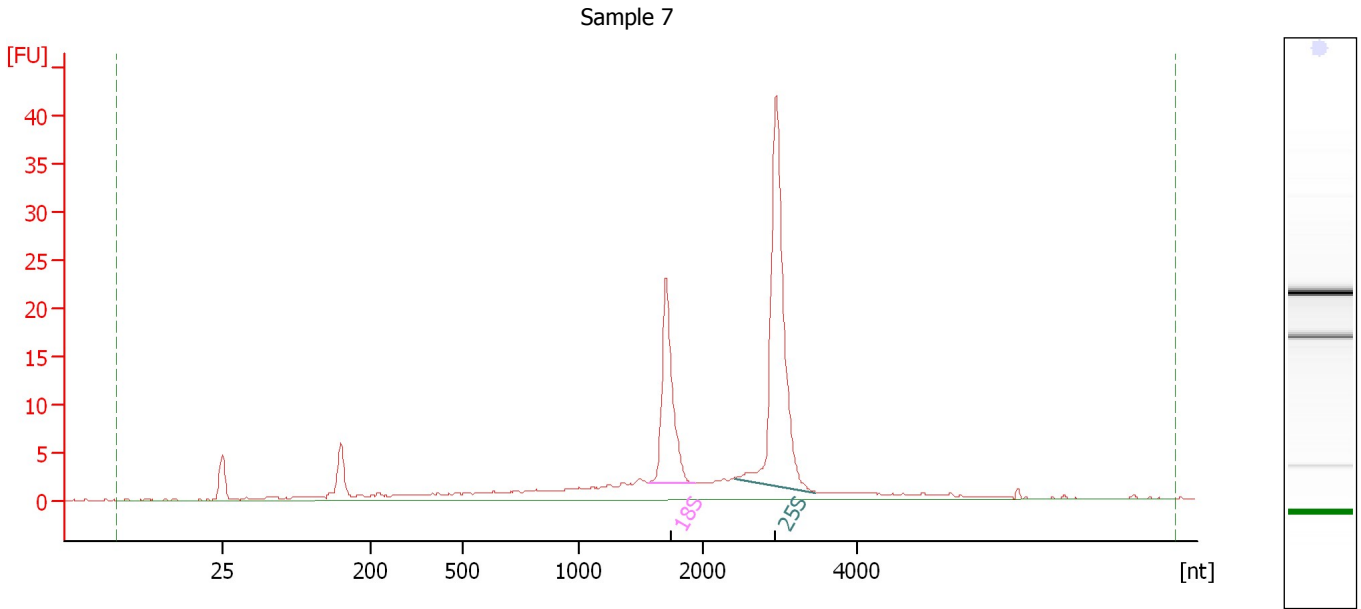
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,968	22.9	25.8
25S	2,708	3,508	43.5	49.1

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	160.9	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	196 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]:	2.1	Result Flagging Label:	RIN: 8.70

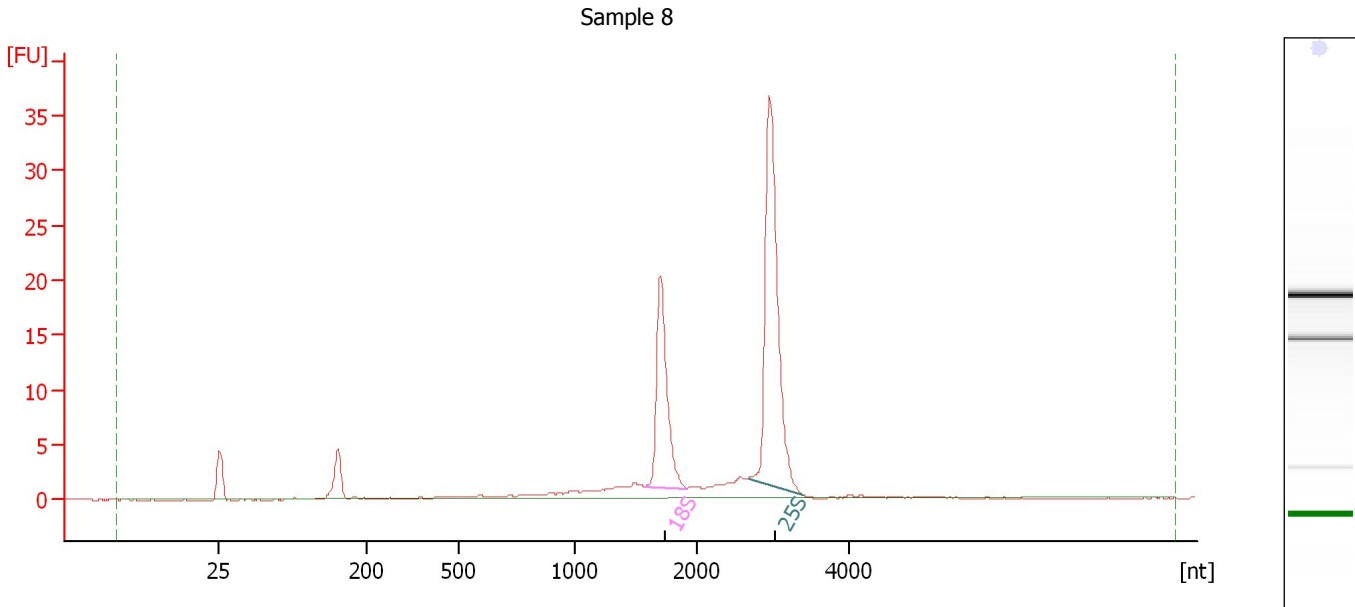
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,558	1,941	26.4	16.4
25S	2,432	3,469	55.0	34.2

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	106.4	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	130 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]:	2.0	Result Flagging Label:	RIN: 9.20

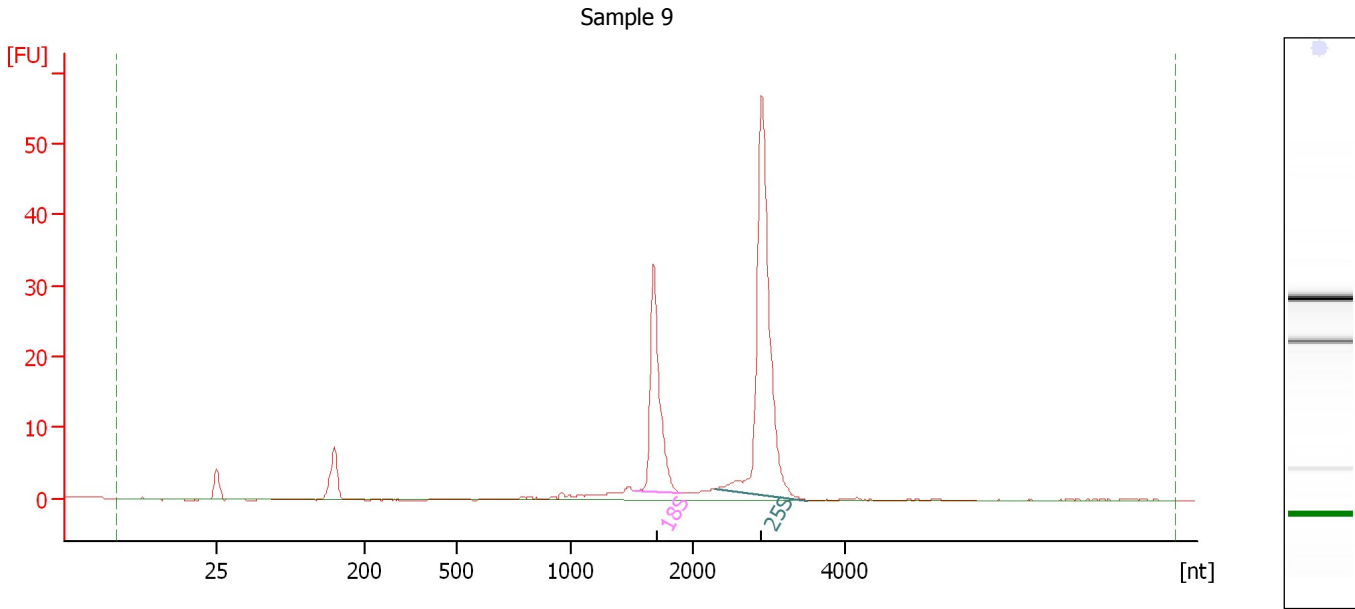
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	1,930	23.2	21.8
25S	2,682	3,391	46.7	43.9

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	146.4	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	179 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]:	2.1	Result Flagging Label:	RIN: 9.90

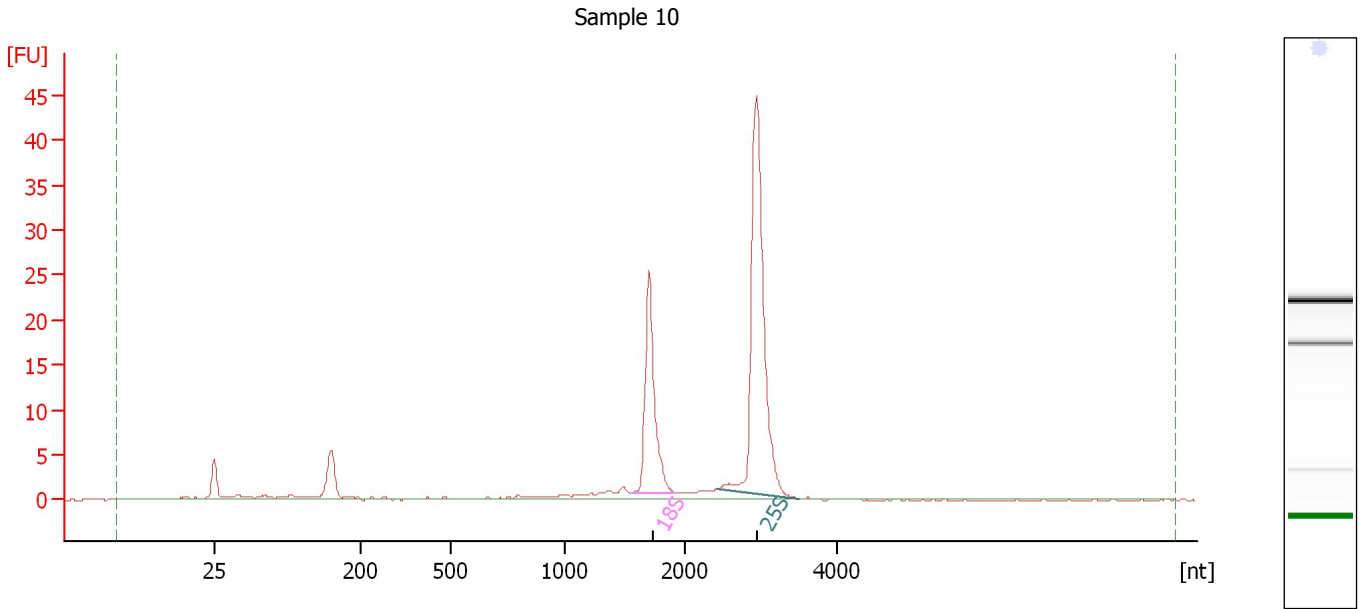
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,532	1,902	36.6	25.0
25S	2,305	3,506	77.8	53.2

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	120.1	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	147 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]:	2.1	Result Flagging Label:	RIN: 9.80

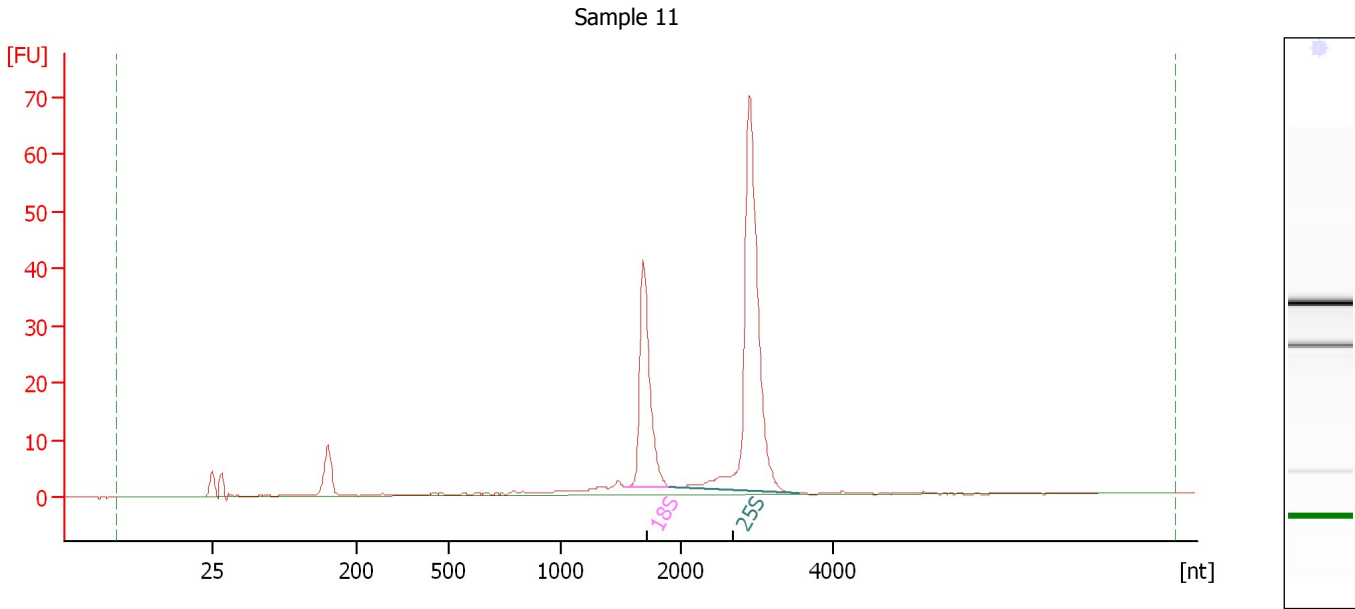
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,545	1,917	27.7	23.1
25S	2,416	3,484	58.9	49.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	203.0	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	248 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]:	2.2	Result Flagging Label:	RIN: 9.80

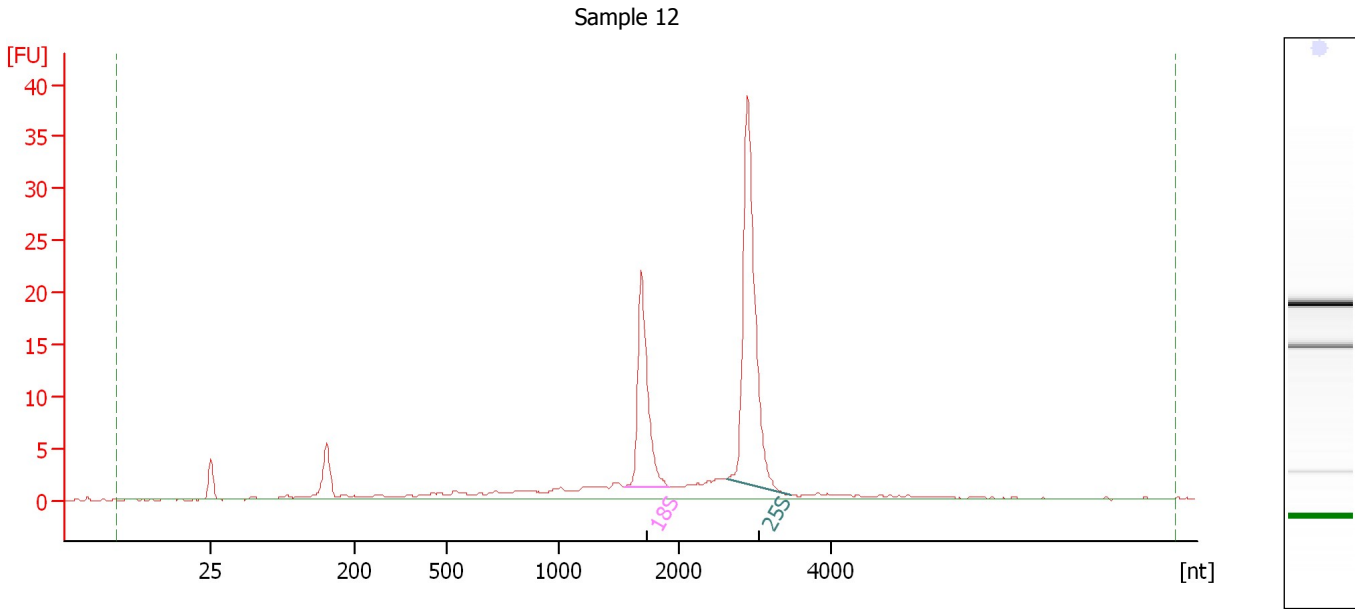
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,541	1,879	46.9	23.1
25S	1,897	3,544	104.2	51.3

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 AM

**Electropherogram Summary Continued ...**



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

RNA Area:	133.8	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	163 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]:	2.0	Result Flagging Label:	RIN: 8.90

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

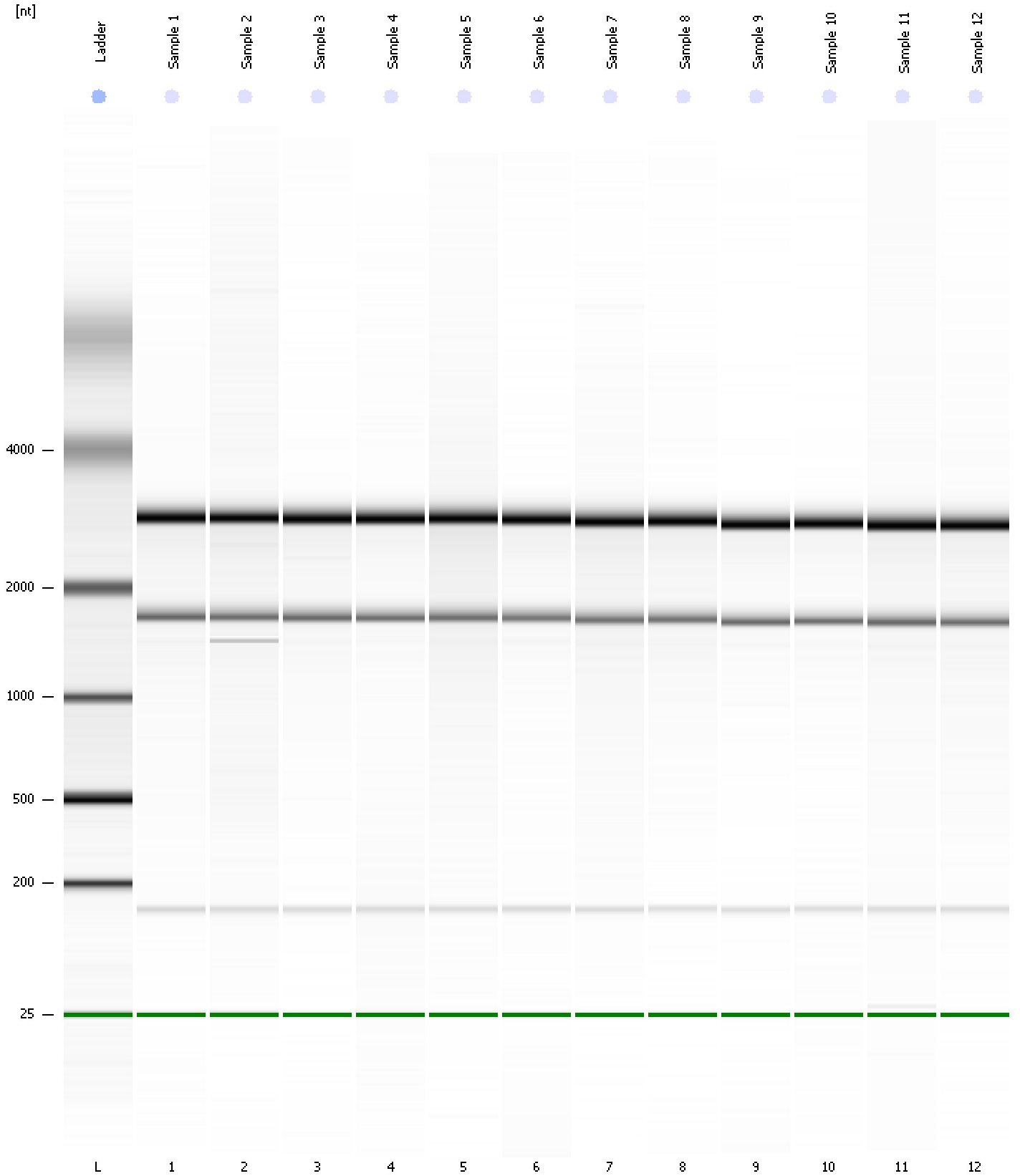
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,540	1,905	24.7	18.4
25S	2,613	3,461	48.4	36.2



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
Modified: 3/17/2017 10:24:49 AM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-17\2017-03-17\_001.xad

Created: 3/17/2017 10:01:02 AM  
 Modified: 3/17/2017 10:24:49 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		3/17/2017 10:24:48 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-17\2017-03-17_001.xad)		Instrument	Run		3/17/2017 10:01:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/17/2017 10:01:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/17/2017 10:01:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/17/2017 10:01:08 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/17/2017 10:01:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/17/2017 10:01:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/17/2017 10:01:07 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1