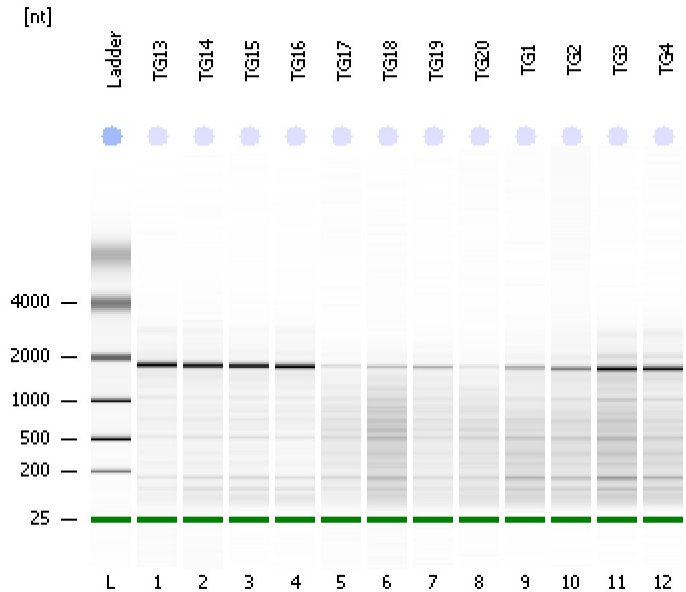


Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

### Electrophoresis File Run Summary



#### Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

#### Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

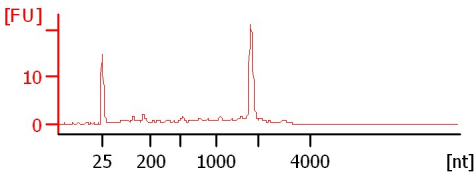
Assay Class: Plant RNA Nano  
Version: 1.3  
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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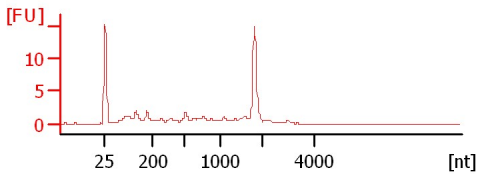
#### Chip Information:

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

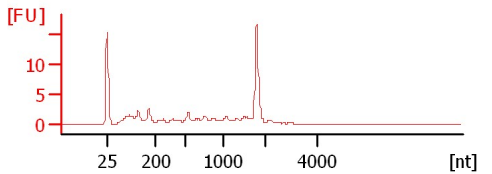
**TG13**  
RIN: 7.50



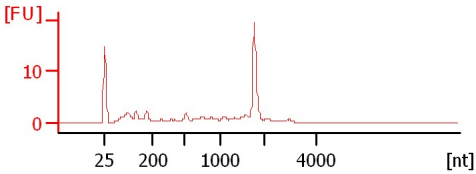
**TG14**  
RIN: 7.10



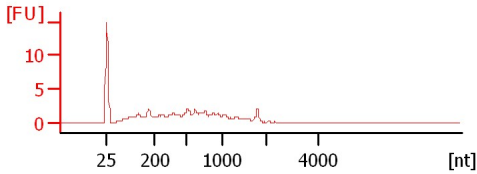
**TG15**  
RIN: 7.20



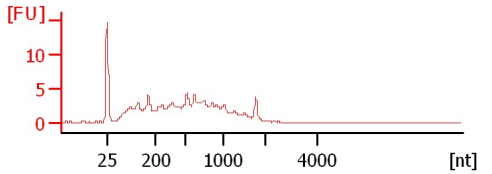
**TG16**  
RIN: 7



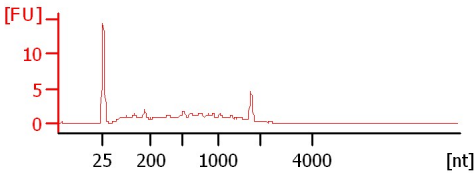
**TG17**  
RIN: 6.20



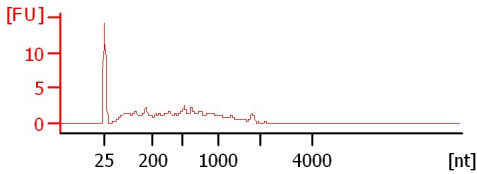
**TG18**  
RIN: 5.10



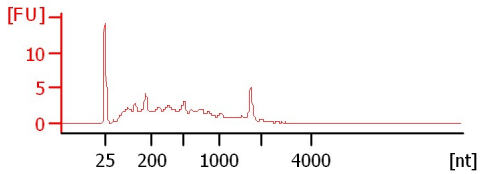
**TG19**  
RIN: 6.20



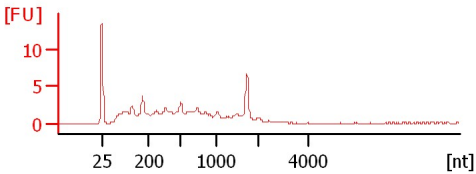
**TG20**  
RIN: 3.90



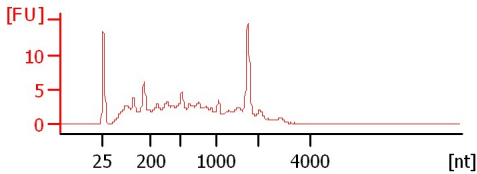
**TG1**  
RIN: 5.70



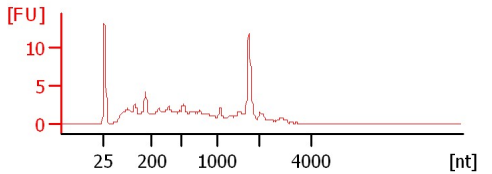
**TG2**  
RIN: 5.80



**TG3**  
RIN: 5.60



**TG4**  
RIN: 6



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
 Modified: 4/22/2019 4:22:15 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
TG13		✓	RIN: 7.50	
TG14		✓	RIN: 7.10	
TG15		✓	RIN: 7.20	
TG16		✓	RIN:7	
TG17		✓	RIN: 6.20	
TG18		✓	RIN: 5.10	
TG19		✓	RIN: 6.20	
TG20		✓	RIN: 3.90	
TG1		✓	RIN: 5.70	
TG2		✓	RIN: 5.80	
TG3		✓	RIN: 5.60	
TG4		✓	RIN:6	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 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

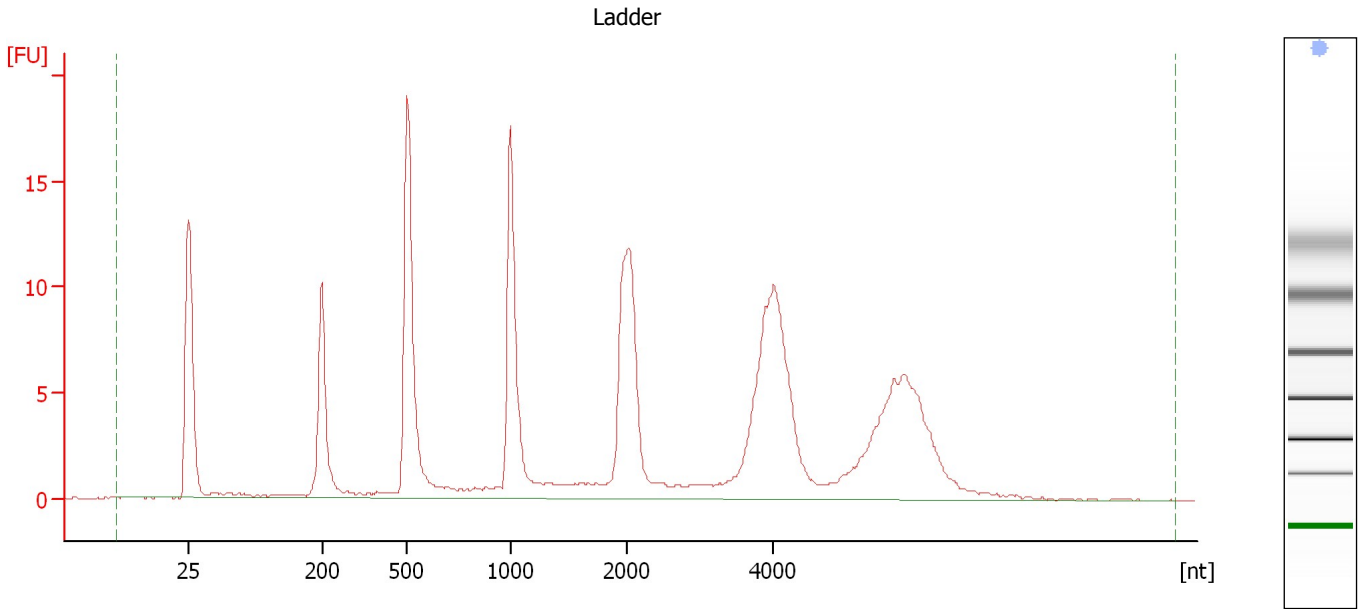
### Ladder

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\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary**



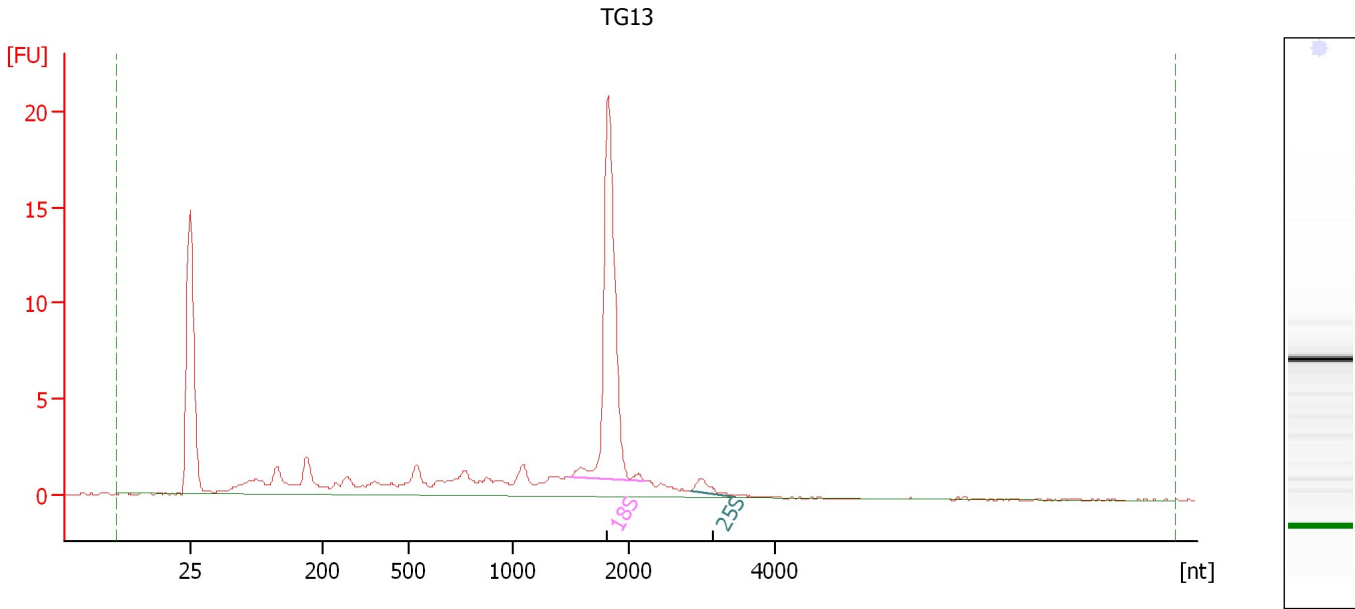
**Overall Results for Ladder**

RNA Area:	182.0	Result Flagging Color:	<span style="background-color: #6699ff; 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\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : TG13**

RNA Area: 80.5                      RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 66 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0              Result Flagging Label: RIN: 7.50

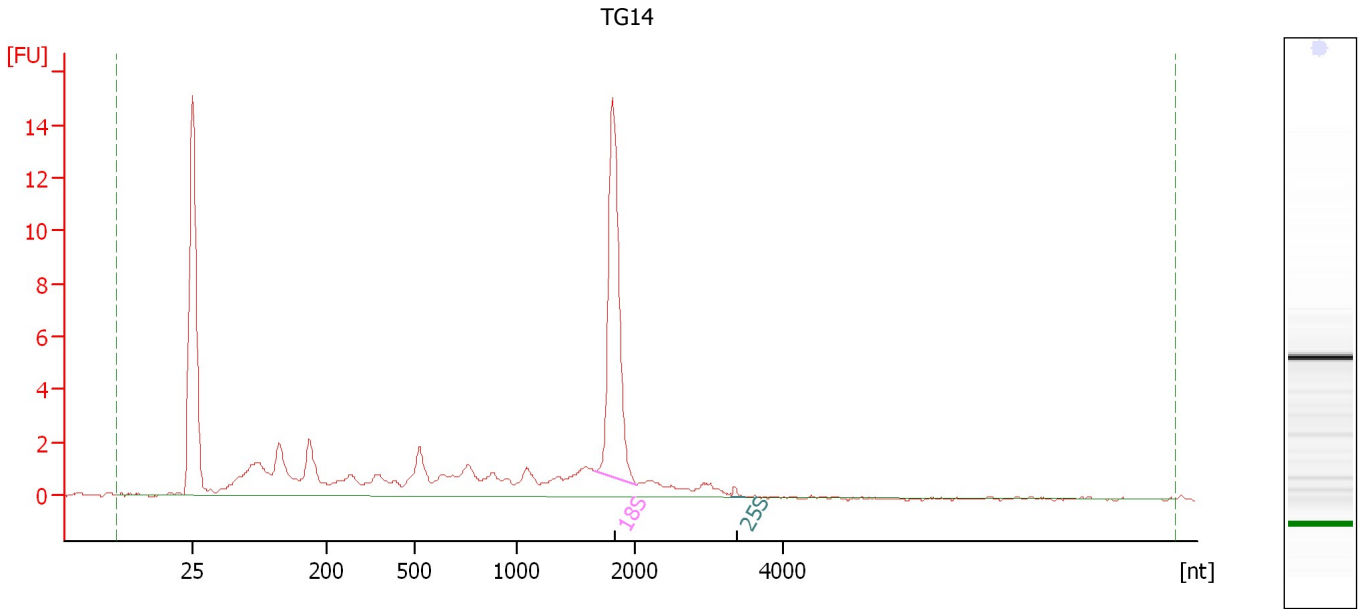
**Fragment table for sample 1 : TG13**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,474	2,206	29.0	36.0
25S	2,837	3,454	1.1	1.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : TG14**

RNA Area: 69.3                      RNA Integrity Number (RIN): 7.1 (B.02.08)  
RNA Concentration: 57 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0              Result Flagging Label: RIN: 7.10

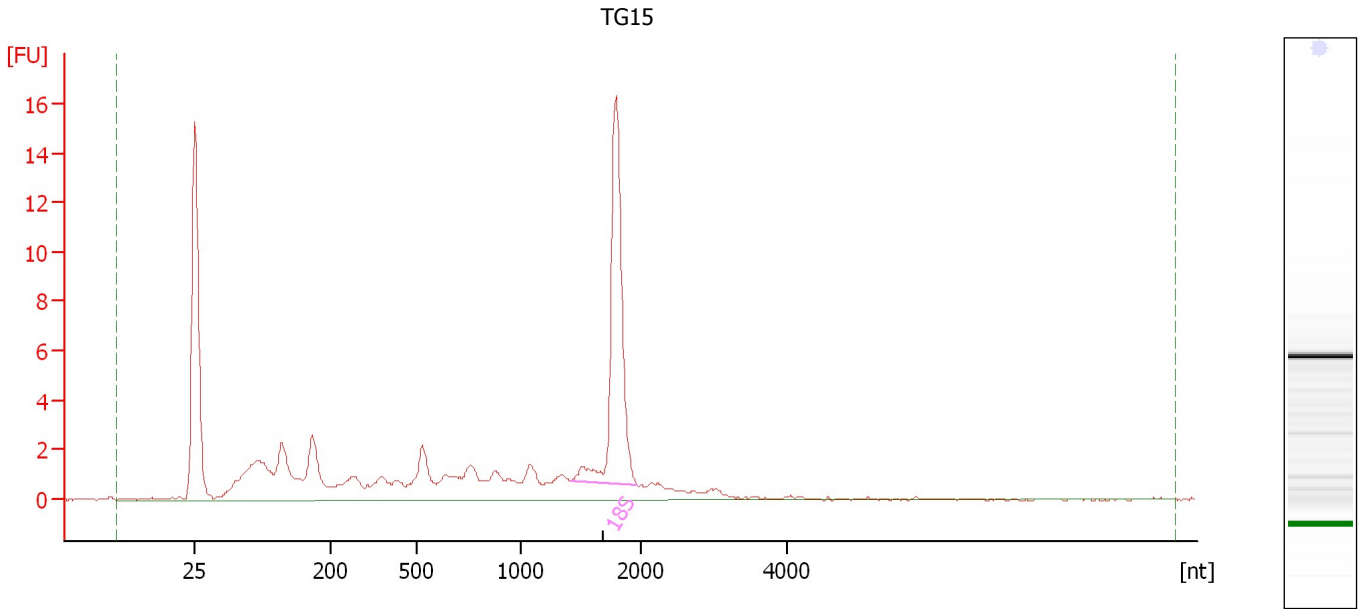
**Fragment table for sample 2 : TG14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,661	2,005	19.0	27.4
25S	3,303	3,478	0.2	0.3

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : TG15**

RNA Area:	82.3	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	68 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]:	0.0	Result Flagging Label:	RIN: 7.20

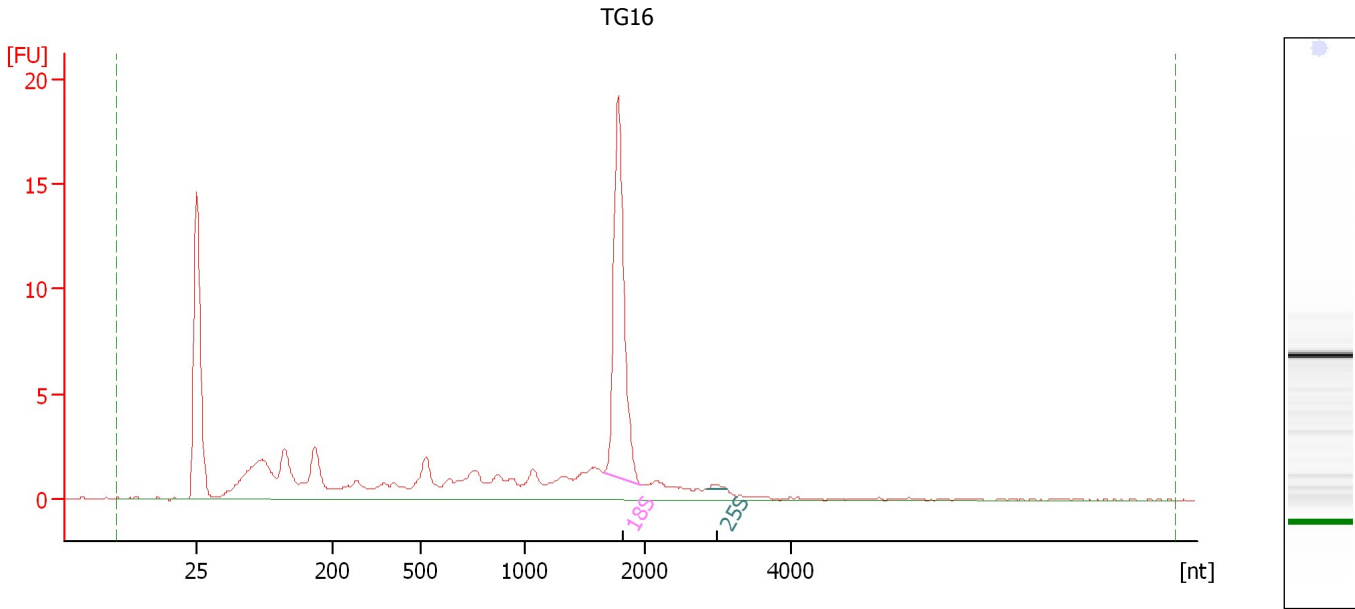
**Fragment table for sample 3 : TG15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,422	1,978	21.5	26.1

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : TG16**

RNA Area:	87.5	RNA Integrity Number (RIN):	7 (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]:	0.0	Result Flagging Label:	RIN:7

**Fragment table for sample 4 : TG16**

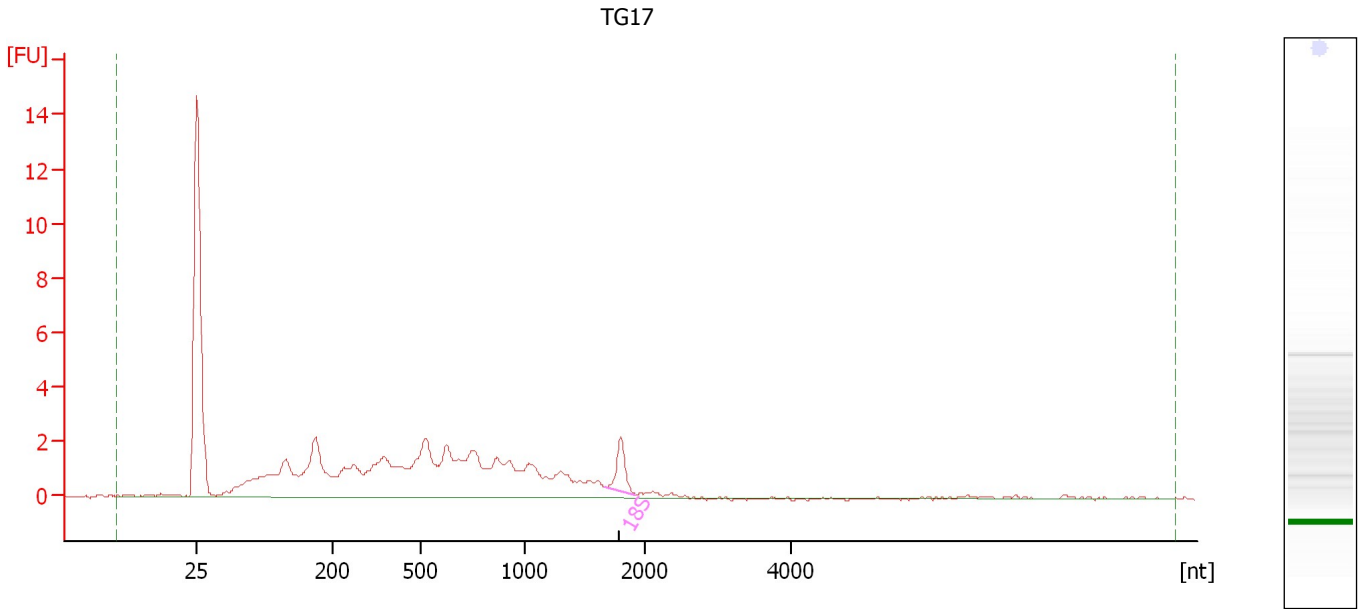
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,667	1,971	23.0	26.3
25S	2,864	3,124	0.3	0.3



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
 Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : TG17**

RNA Area:	59.9	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	49 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]:	0.0	Result Flagging Label:	RIN: 6.20

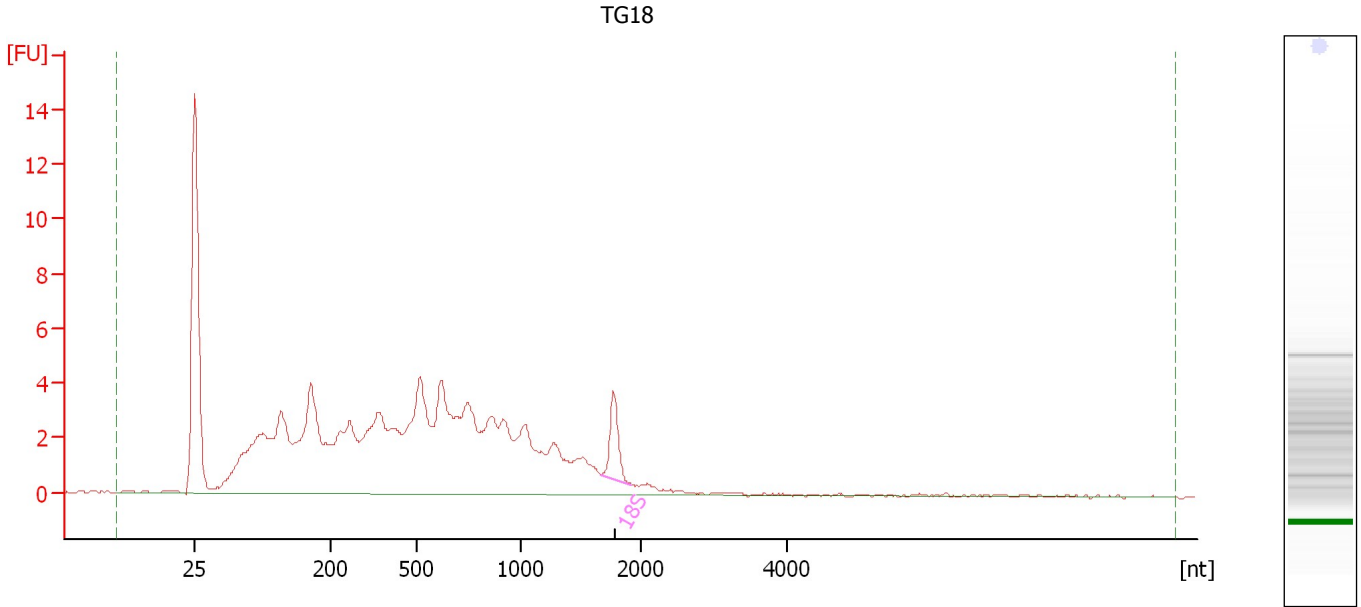
**Fragment table for sample 5 : TG17**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,667	1,926	2.1	3.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : TG18**

RNA Area:	130.4	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	107 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]:	0.0	Result Flagging Label:	RIN: 5.10

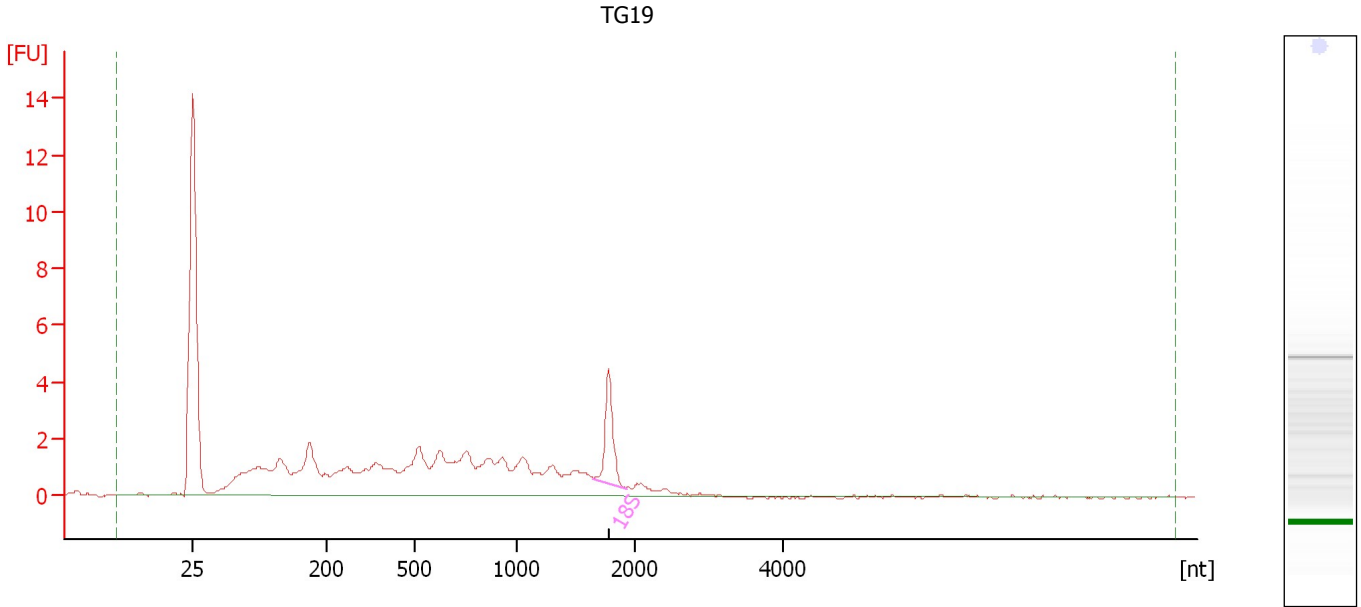
**Fragment table for sample 6 : TG18**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	1,924	3.2	2.5

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : TG19**

RNA Area:	61.4	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	51 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]:	0.0	Result Flagging Label:	RIN: 6.20

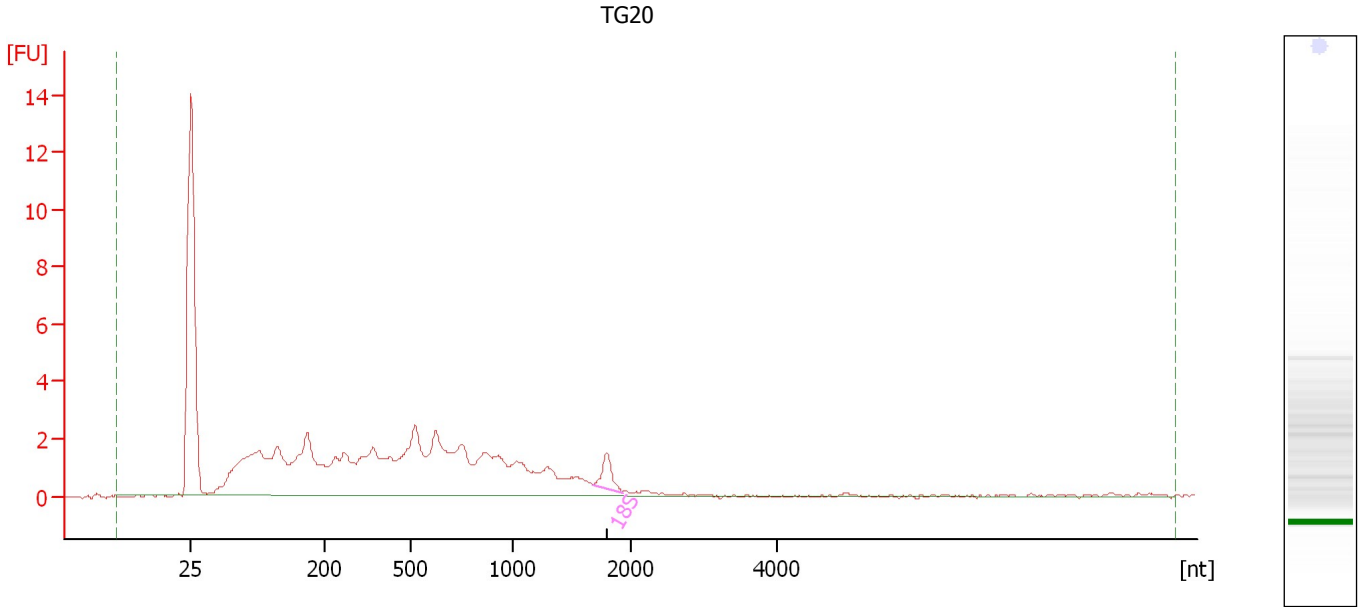
**Fragment table for sample 7 : TG19**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,922	3.9	6.4

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : TG20**

RNA Area:	73.2	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	60 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]:	0.0	Result Flagging Label:	RIN: 3.90

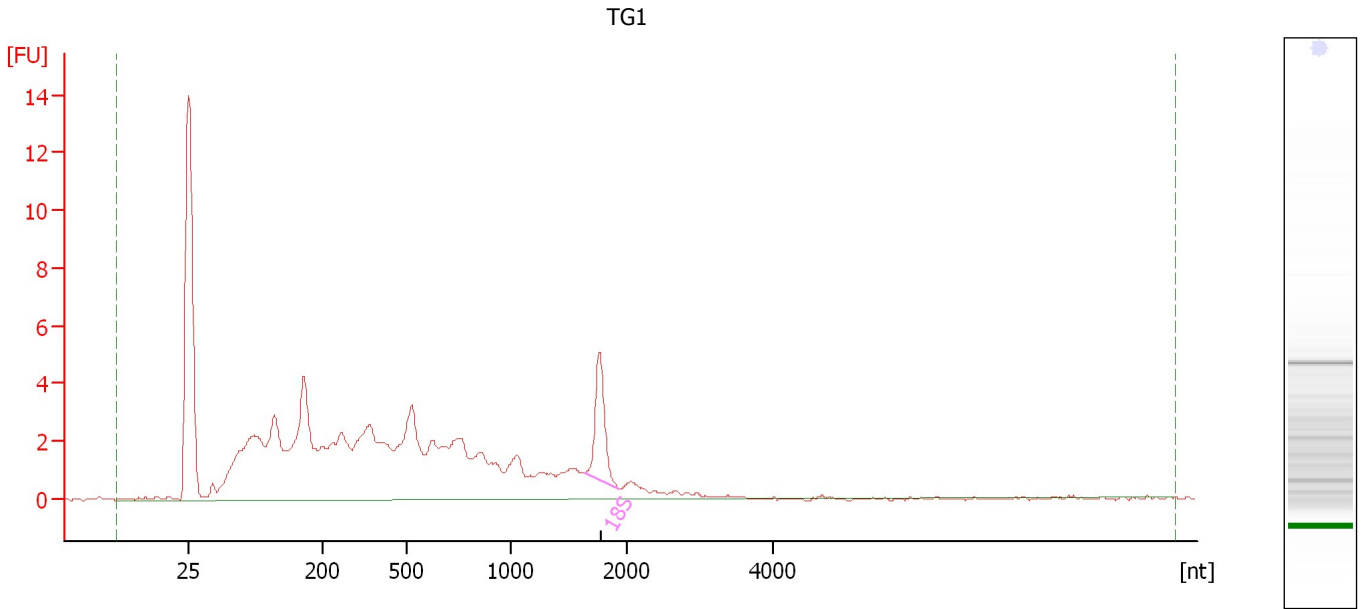
**Fragment table for sample 8 : TG20**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	1,920	1.5	2.0

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : TG1**

RNA Area:	105.7	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	87 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]:	0.0	Result Flagging Label:	RIN: 5.70

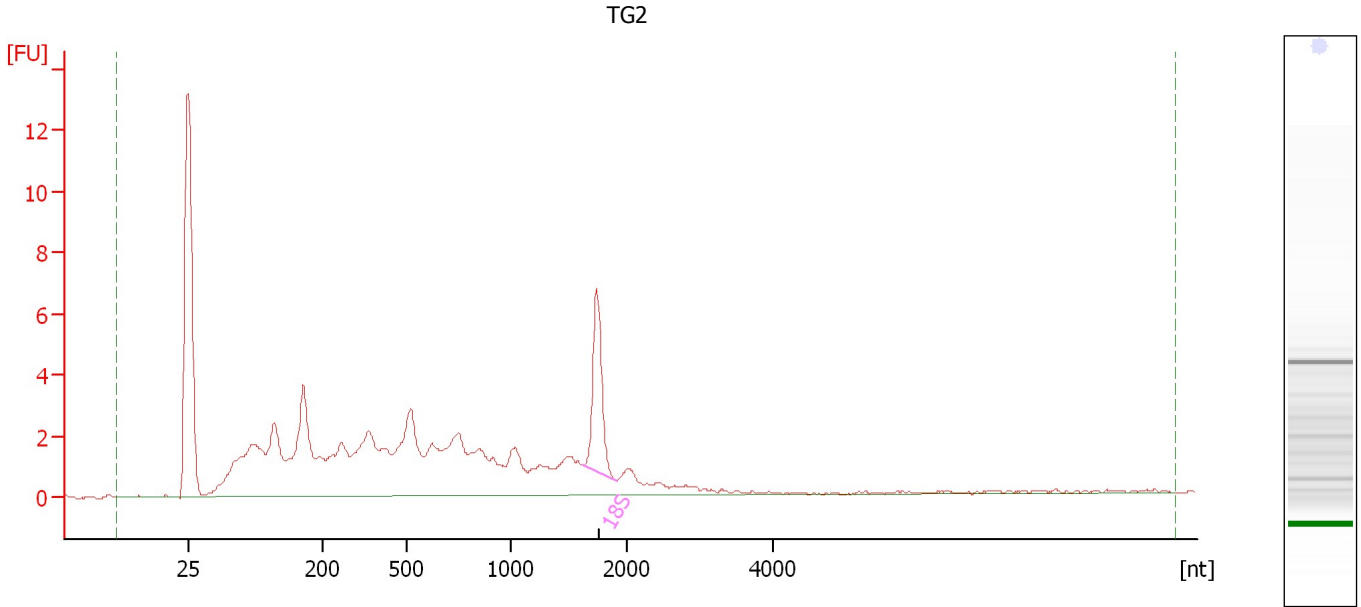
**Fragment table for sample 9 : TG1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,918	5.1	4.9

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
 Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : TG2**

RNA Area:	91.0	RNA Integrity Number (RIN):	5.8 (B.02.08)
RNA Concentration:	75 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]:	0.0	Result Flagging Label:	RIN: 5.80

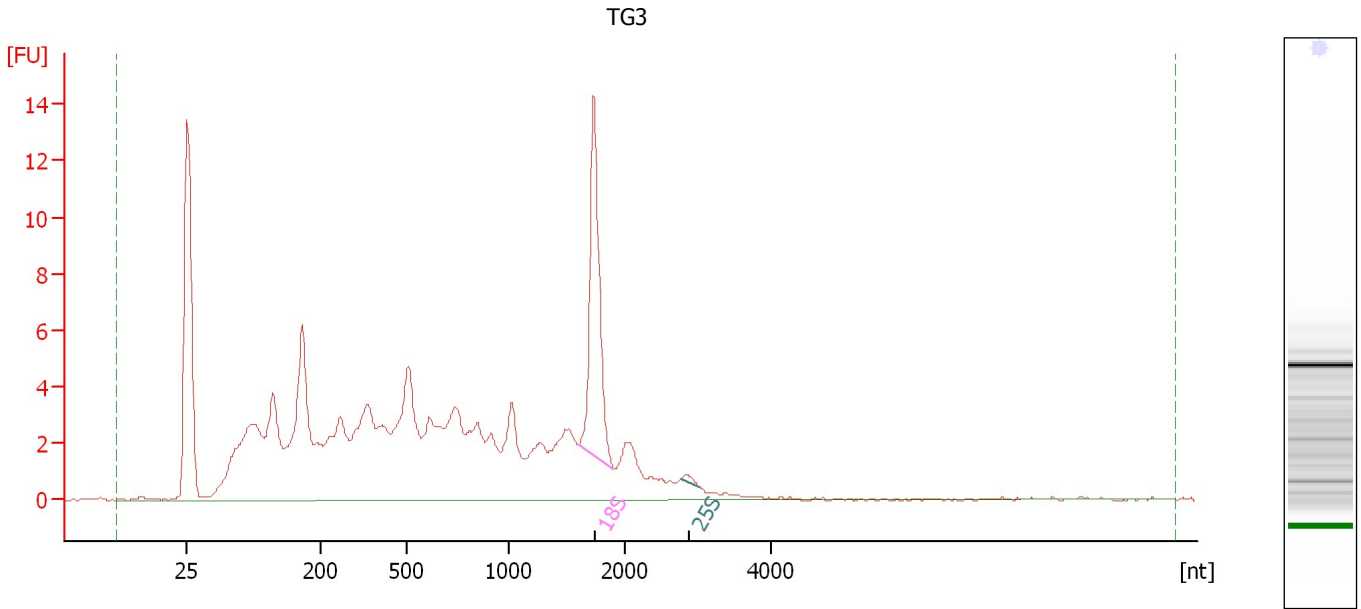
**Fragment table for sample 10 : TG2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,900	6.7	7.4

Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
 Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : TG3**

RNA Area:	160.7	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	132 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]:	0.0	Result Flagging Label:	RIN: 5.60

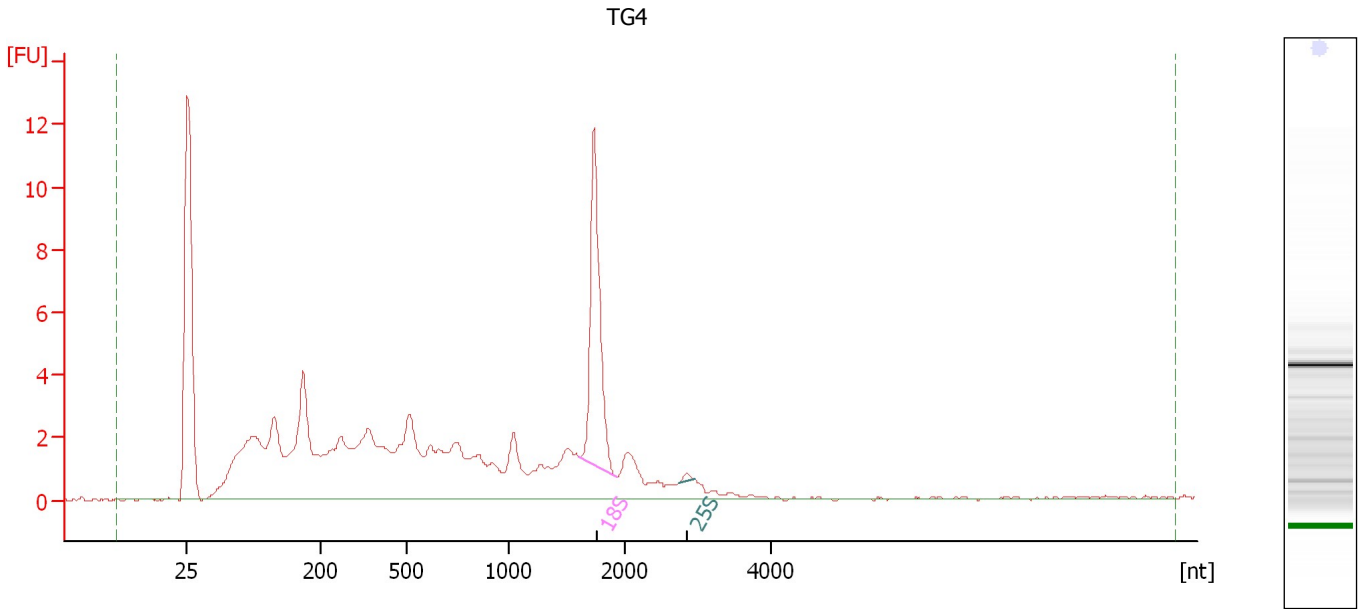
**Fragment table for sample 11 : TG3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	1,898	15.4	9.6
25S	2,750	3,000	0.3	0.2

Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : TG4**

RNA Area: 109.3                      RNA Integrity Number (RIN): 6 (B.02.08)  
RNA Concentration: 90 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 0.0                      Result Flagging Label: RIN:6

**Fragment table for sample 12 : TG4**

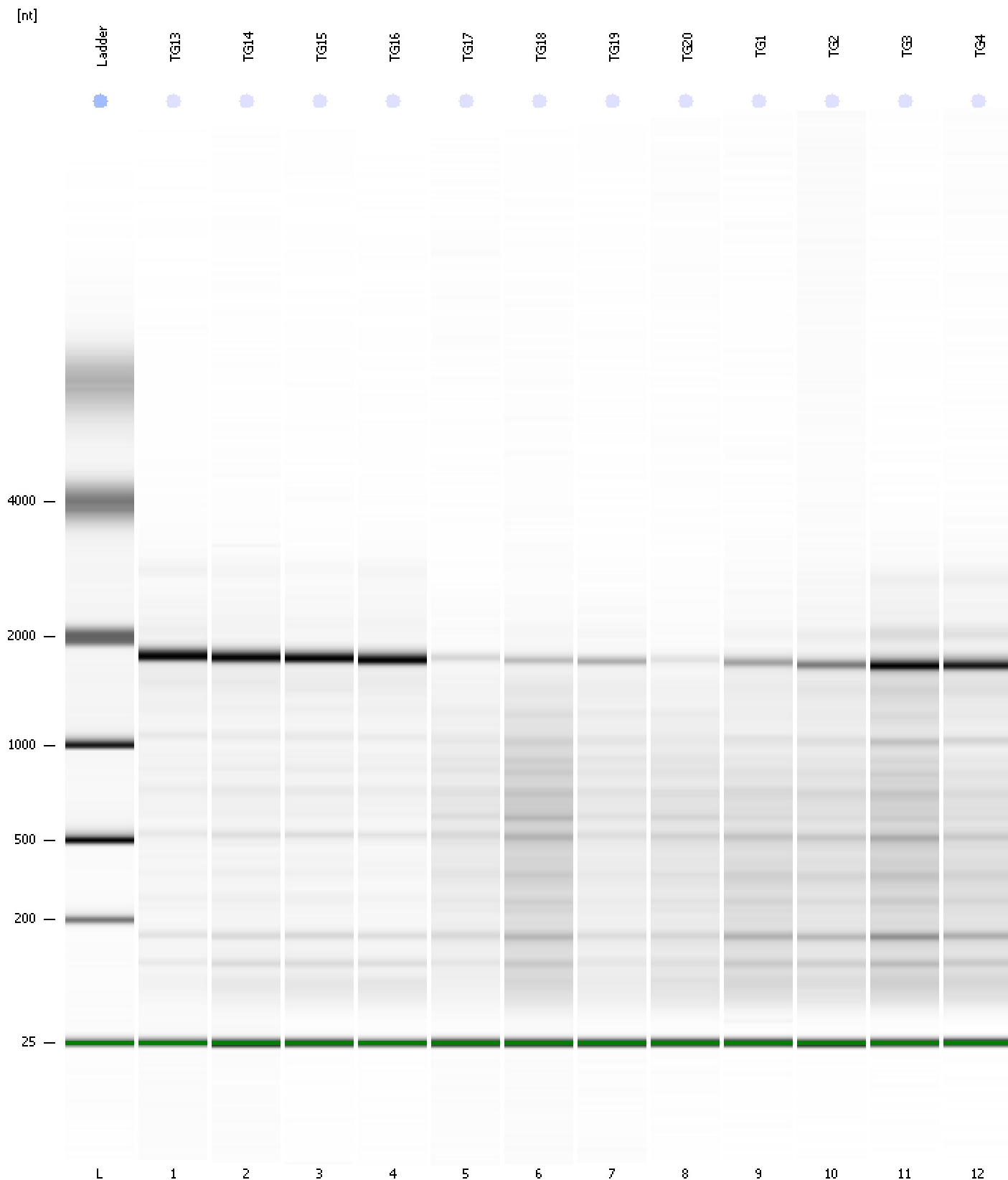
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	1,917	13.0	11.9
25S	2,735	2,956	0.2	0.2



Assay Class: Plant RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
Modified: 4/22/2019 4:22:15 PM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-22\2019-04-22\_004.xad

Created: 4/22/2019 3:59:10 PM  
 Modified: 4/22/2019 4:22:15 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		4/22/2019 4:22:14 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-22\2019-04-22_004.xad)		Instrument	Run		4/22/2019 3:59:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/22/2019 3:59:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/22/2019 3:59:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/22/2019 3:59:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/22/2019 3:59:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/22/2019 3:59:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/22/2019 3:59:16 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1