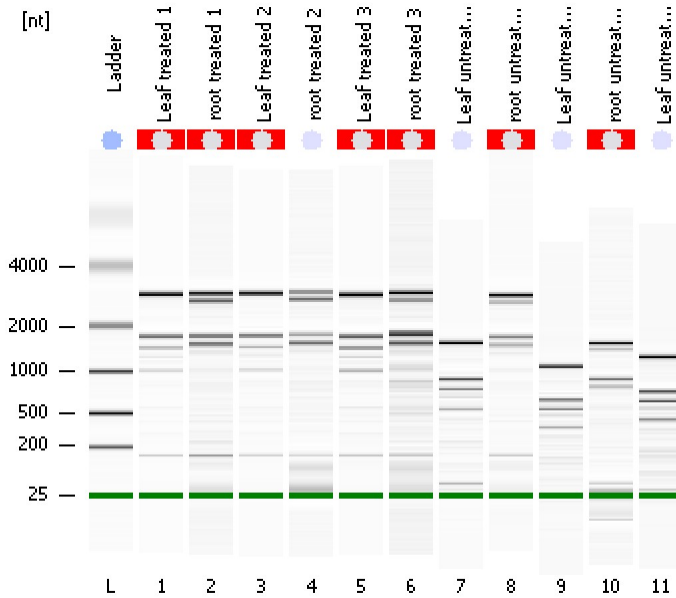


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

### Electrophoresis File Run Summary



#### Instrument Information:

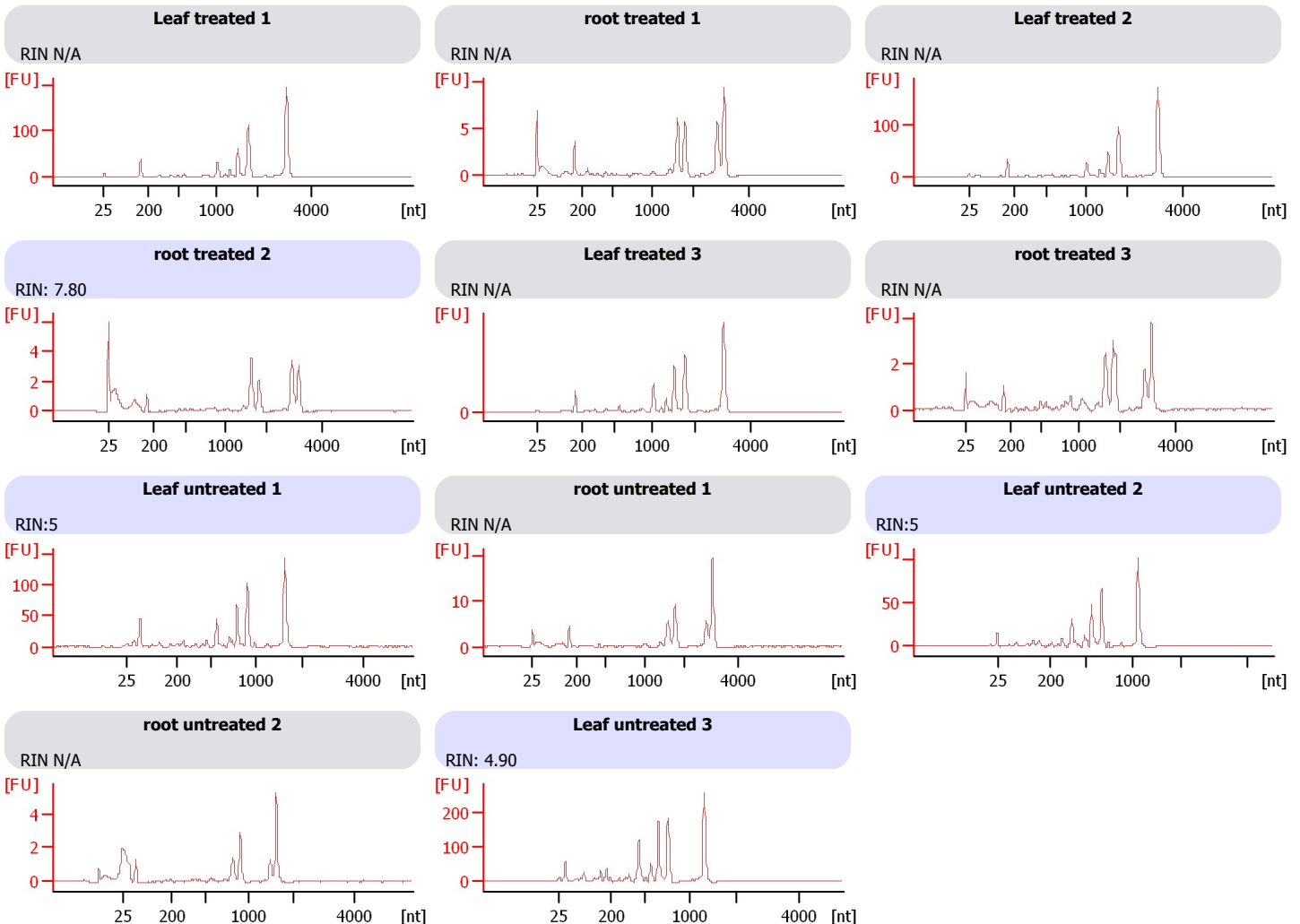
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

#### Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy  
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)  
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#### Chip Information:

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



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
 Modified: 10/7/2013 3:19:26 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Leaf treated 1		✓	RIN N/A	
root treated 1		✓	RIN N/A	
Leaf treated 2		✓	RIN N/A	
root treated 2		✓	RIN: 7.80	
Leaf treated 3		✓	RIN N/A	
root treated 3		✓	RIN N/A	
Leaf untreated 1		✓	RIN:5	
root untreated 1		✓	RIN N/A	
Leaf untreated 2		✓	RIN:5	
root untreated 2		✓	RIN N/A	
Leaf untreated 3		✓	RIN: 4.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

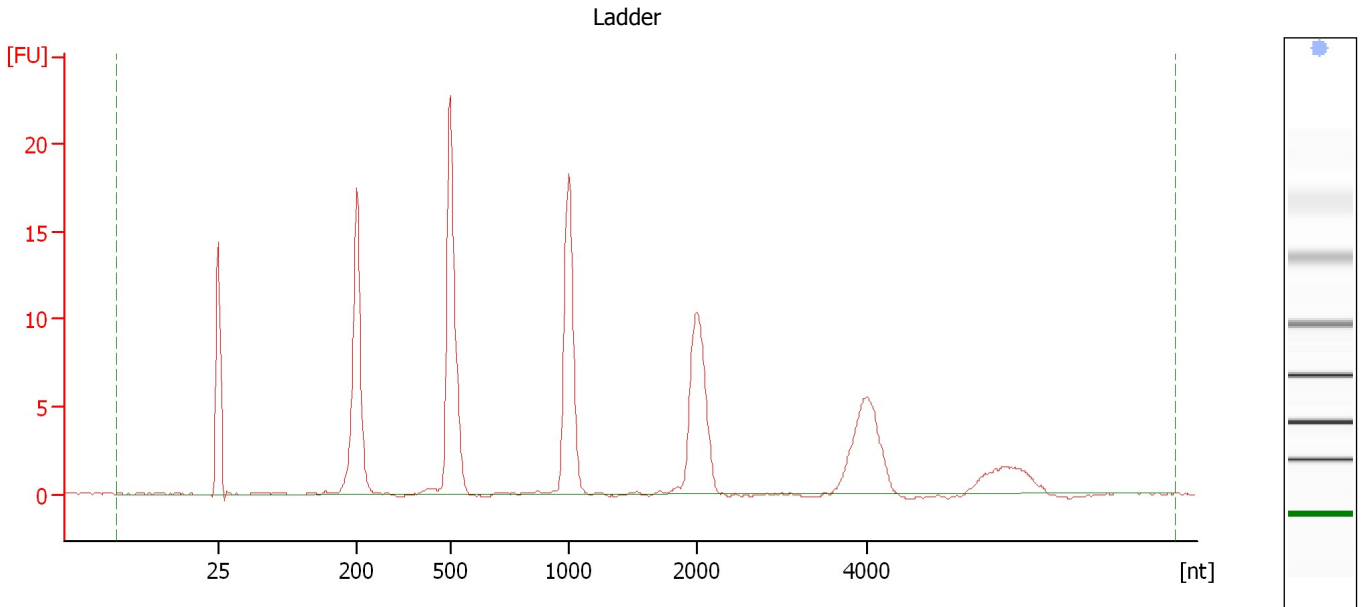
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary**



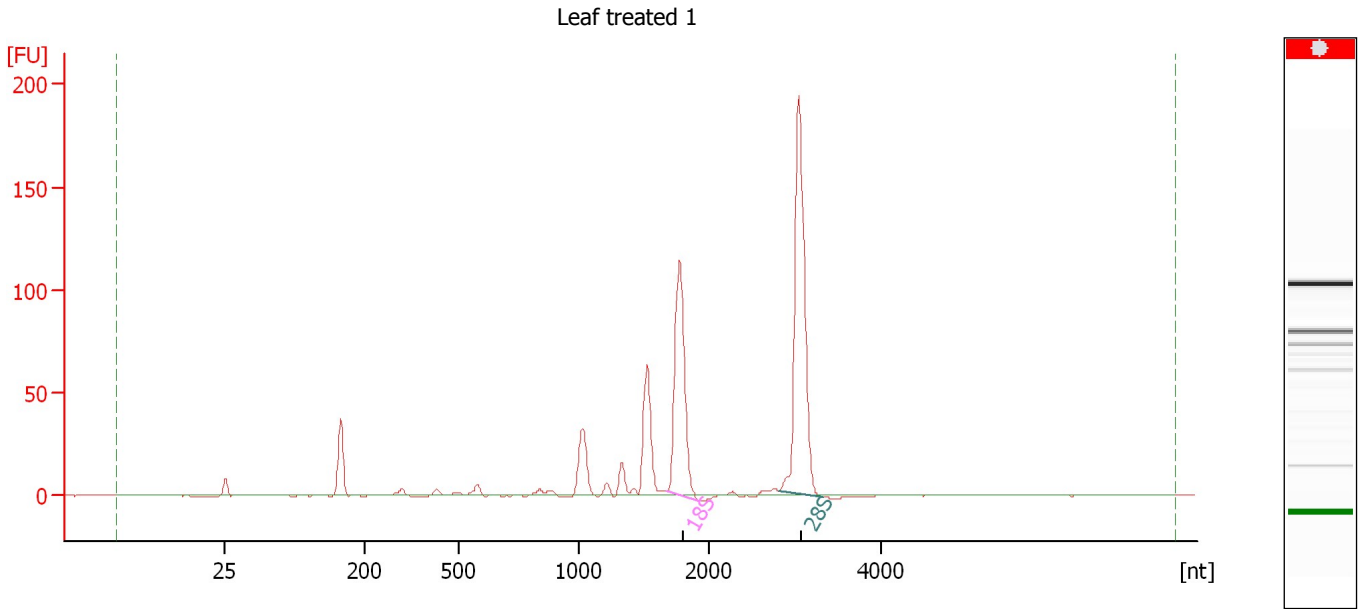
**Overall Results for Ladder**

RNA Area:	116.4	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Leaf treated 1**

RNA Area: 512.4                      RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 4,404 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5                      Result Flagging Label: RIN N/A

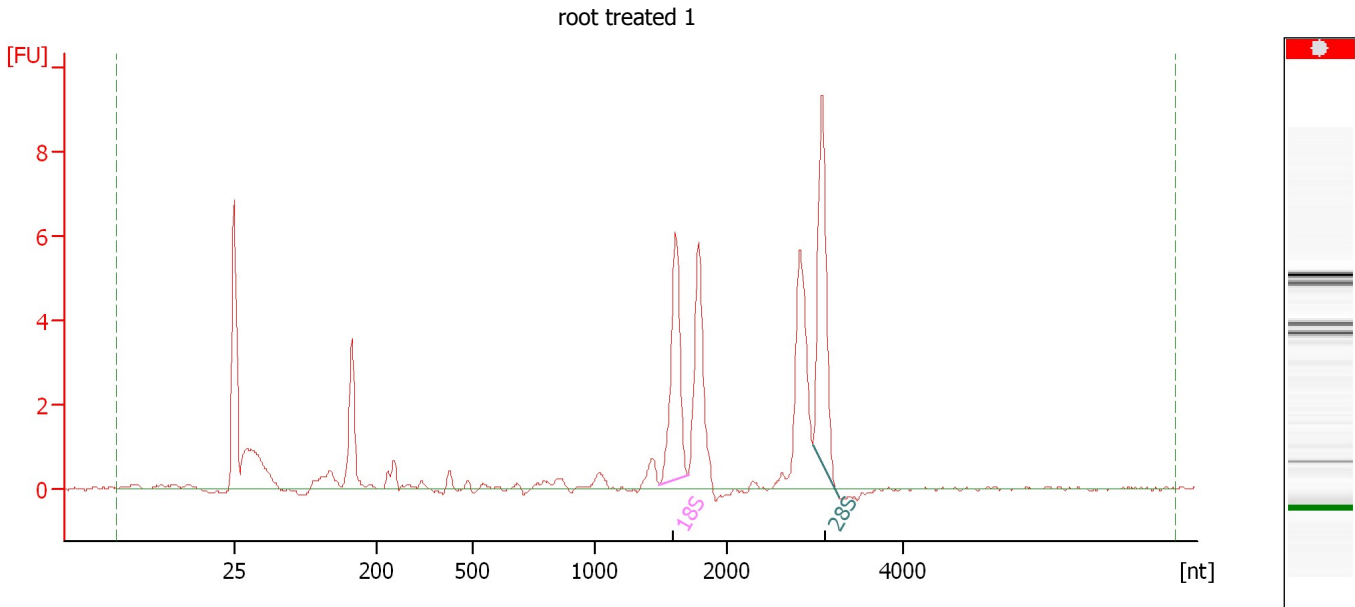
**Fragment table for sample 1 : Leaf treated 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	1,929	129.0	25.2
28S	2,813	3,335	196.5	38.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : root treated 1**

RNA Area:	40.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	347 µg/µl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN N/A

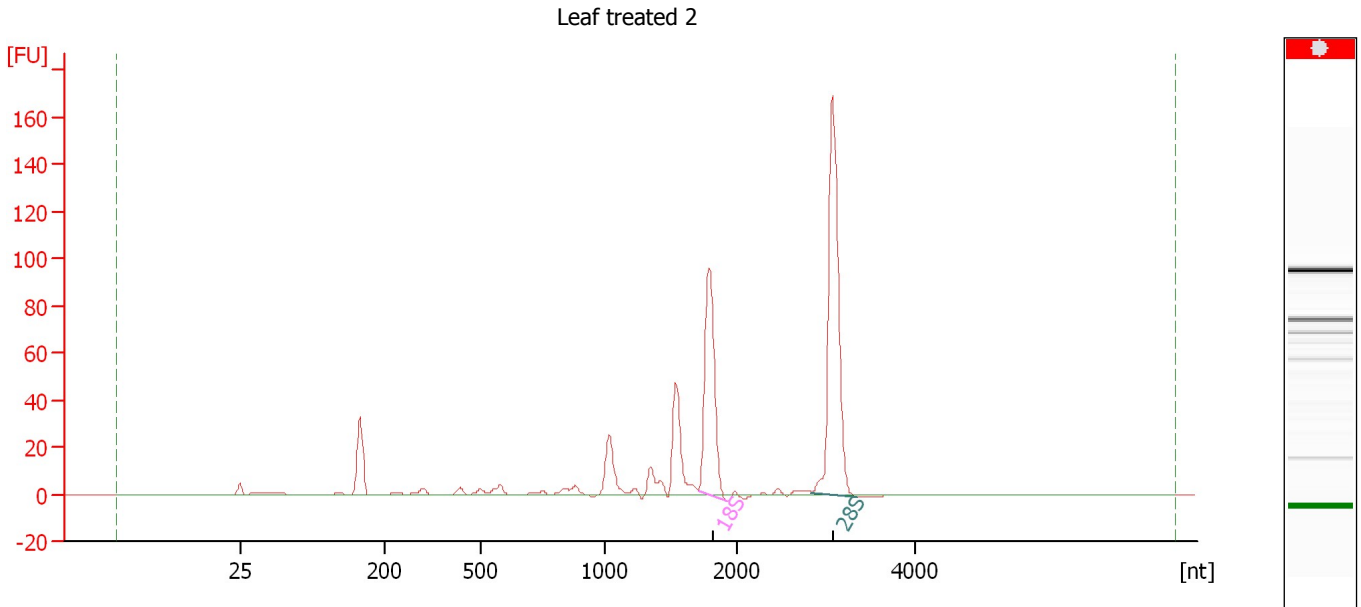
**Fragment table for sample 2 : root treated 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,487	1,707	6.1	15.0
28S	2,978	3,271	7.4	18.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Leaf treated 2**

RNA Area: 423.9                      RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 3,643 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN N/A

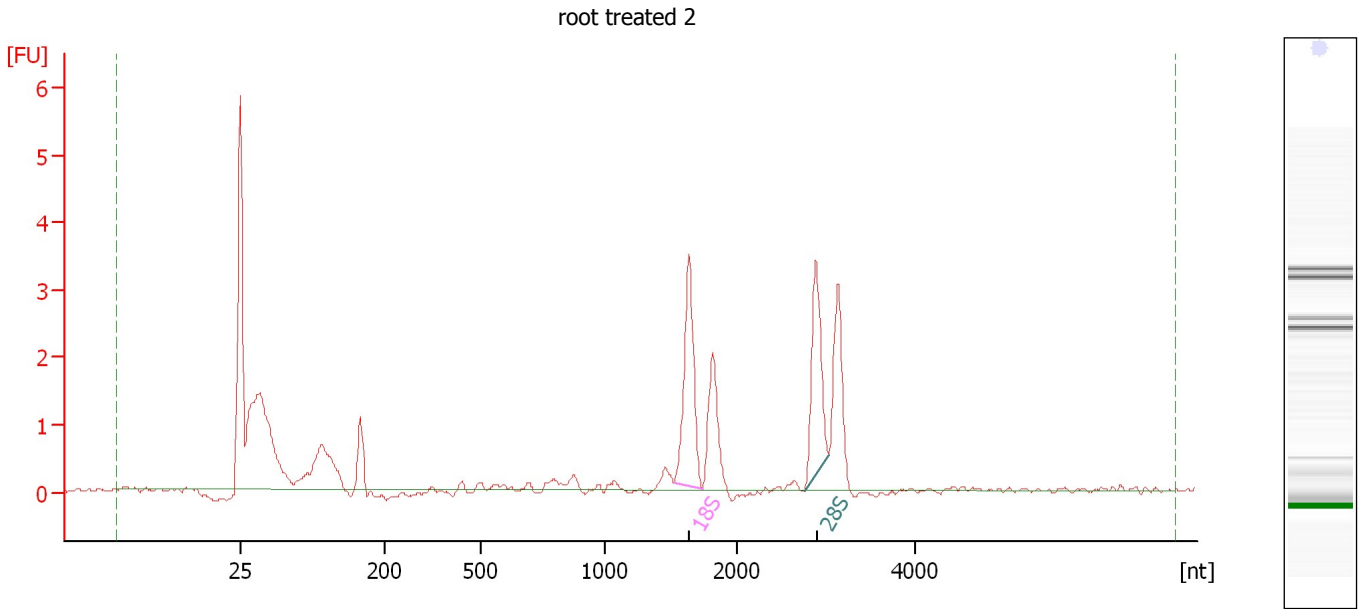
**Fragment table for sample 3 : Leaf treated 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	1,923	103.9	24.5
28S	2,840	3,347	166.1	39.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : root treated 2**

RNA Area: 24.5 RNA Integrity Number (RIN): 7.8 (B.02.08)  
RNA Concentration: 211 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 7.80

**Fragment table for sample 4 : root treated 2**

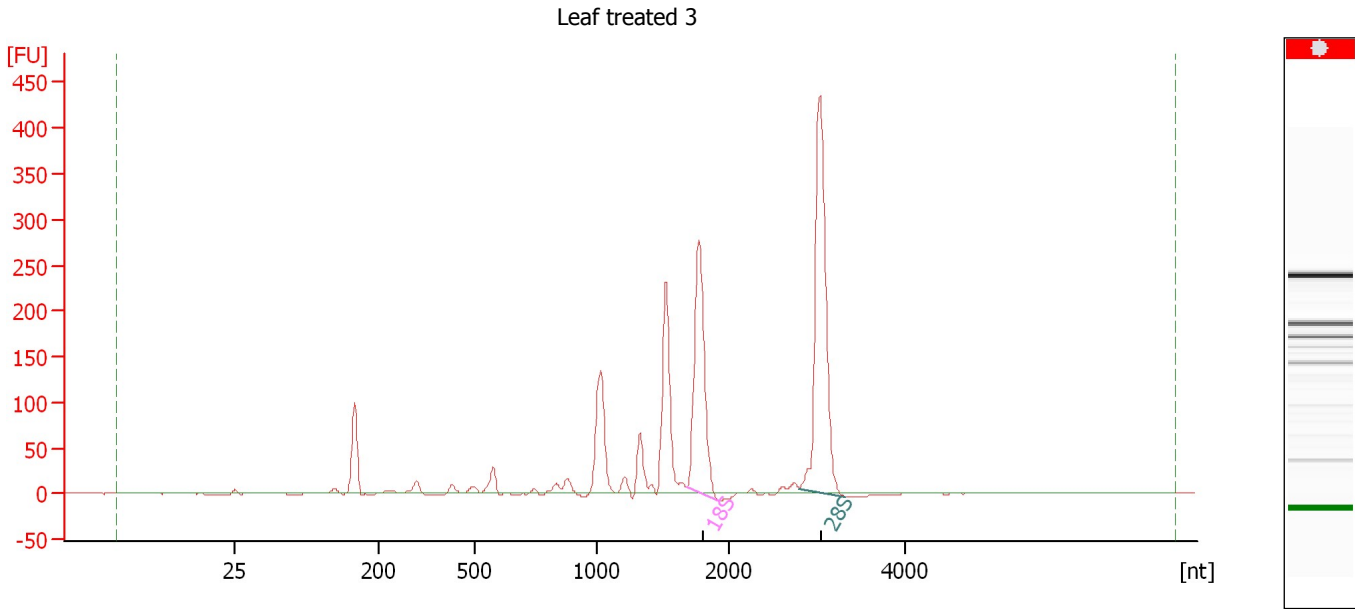
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,528	1,738	3.7	15.3
28S	2,755	3,033	2.9	12.0



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Leaf treated 3**

RNA Area:	1,465.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	12,597 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN N/A

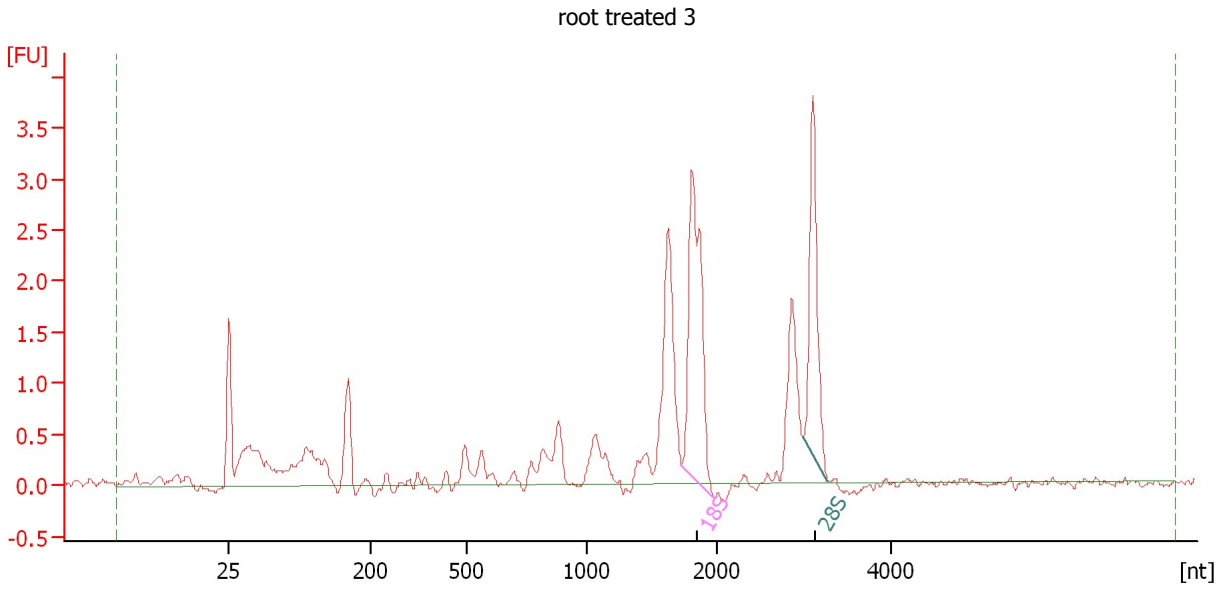
**Fragment table for sample 5 : Leaf treated 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	1,920	326.2	22.3
28S	2,806	3,318	461.6	31.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : root treated 3**

RNA Area: 22.8                      RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 196 µg/µl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.6              Result Flagging Label: RIN N/A

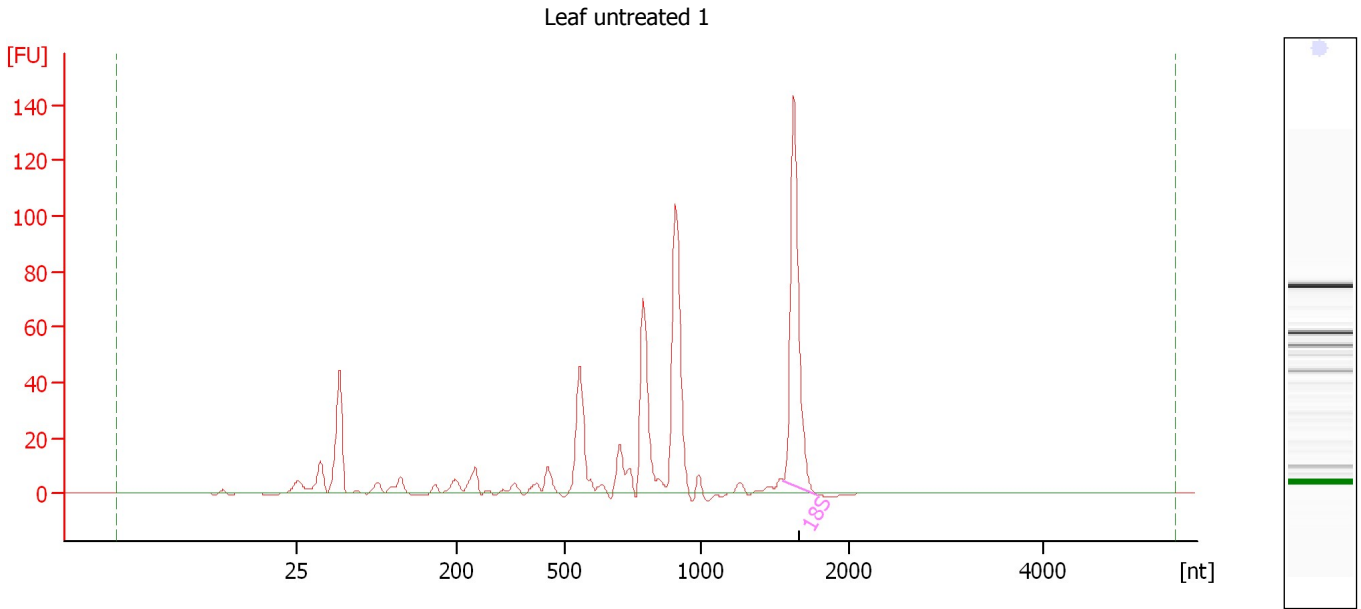
**Fragment table for sample 6 : root treated 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,726	1,973	4.3	19.0
28S	2,995	3,279	2.8	12.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Leaf untreated 1**

RNA Area: 503.5                      RNA Integrity Number (RIN): 5 (B.02.08)  
RNA Concentration: 4,327 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0                      Result Flagging Label: RIN:5

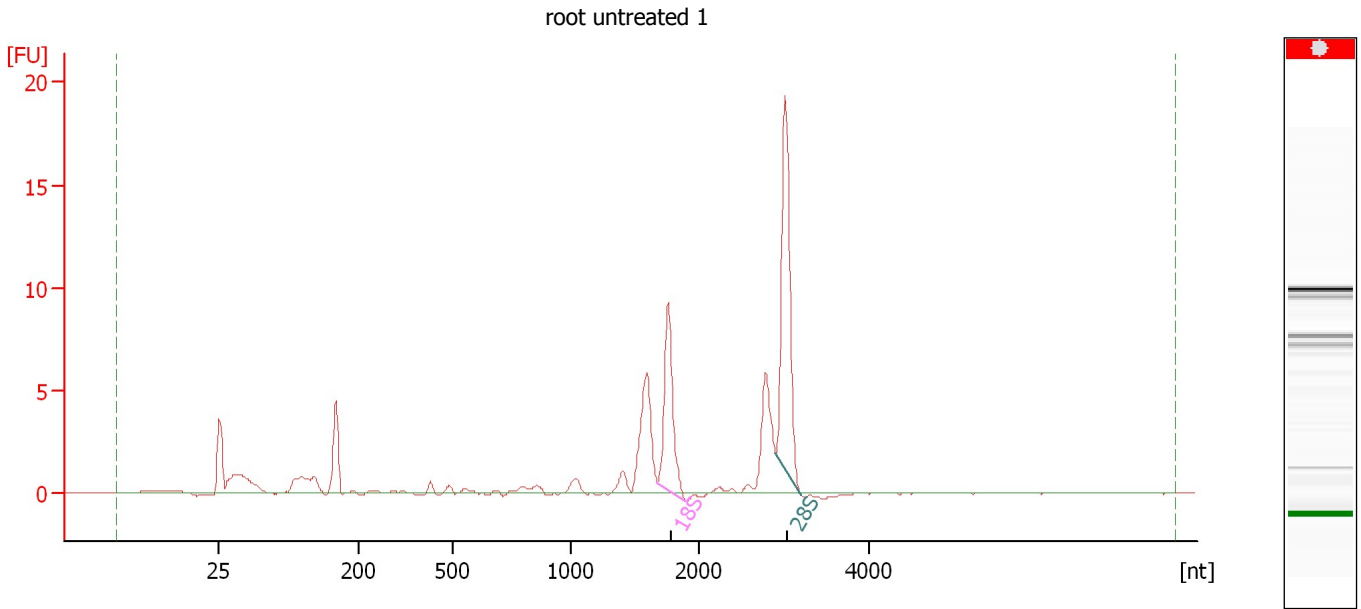
**Fragment table for sample 7 : Leaf untreated 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,561	1,794	124.5	24.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : root untreated 1**

RNA Area: 58.9 RNA Integrity Number (RIN): N/A (B.02.08)  
RNA Concentration: 506 µg/µl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN N/A

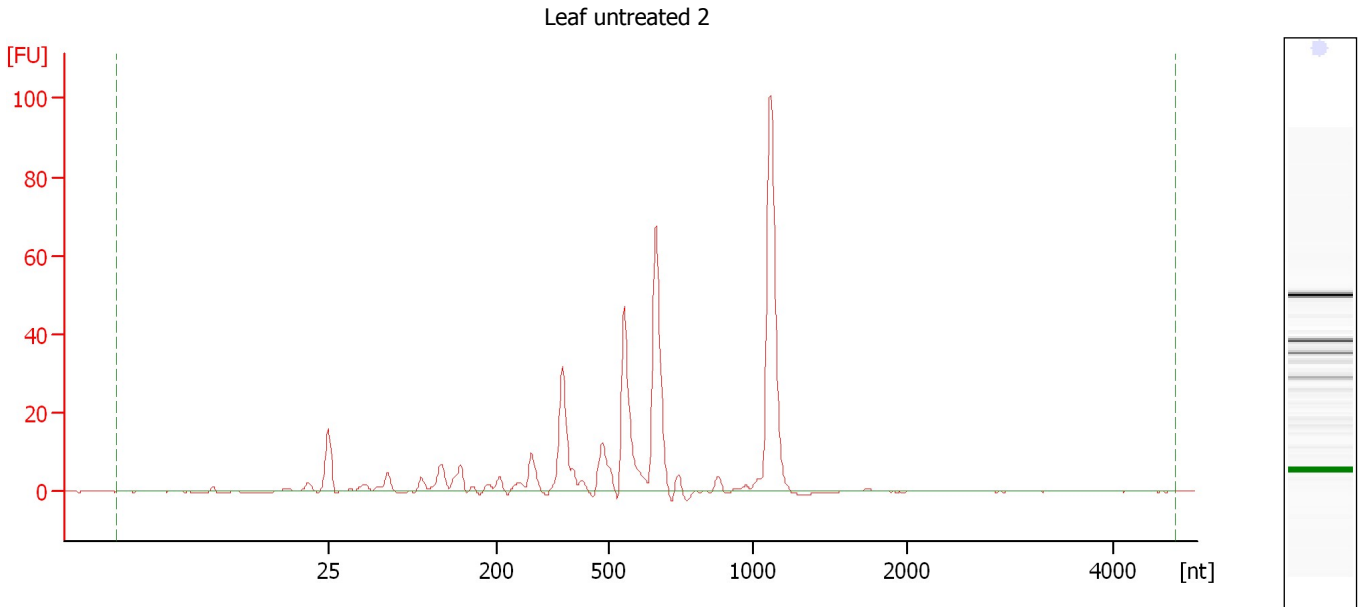
**Fragment table for sample 8 : root untreated 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,681	1,900	9.4	15.9
28S	2,904	3,206	15.2	25.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



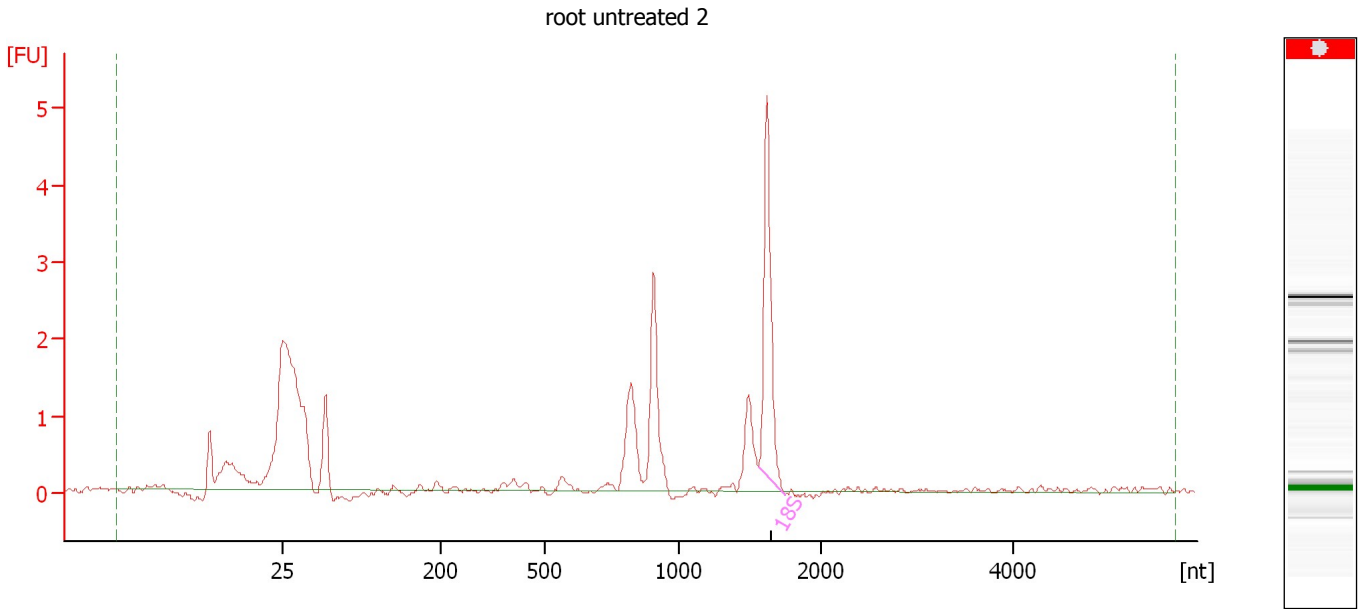
**Overall Results for sample 9 : Leaf untreated 2**

RNA Area:	319.4	RNA Integrity Number (RIN):	5 (B.02.08)
RNA Concentration:	2,745 pg/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:5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : root untreated 2**

RNA Area:	15.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	130 µg/µl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

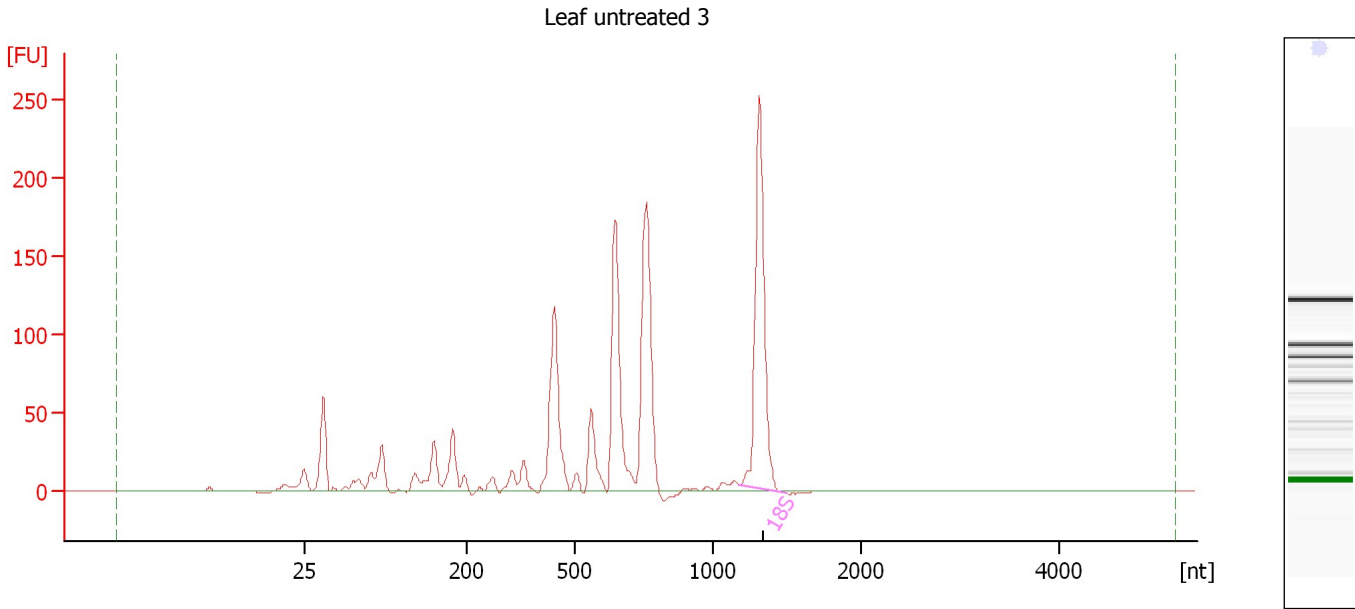
**Fragment table for sample 10 : root untreated 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,557	1,752	3.6	24.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
 Modified: 10/7/2013 3:19:26 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Leaf untreated 3**

RNA Area:	1,075.4	RNA Integrity Number (RIN):	4.9 (B.02.08)
RNA Concentration:	9,242 pg/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: 4.90

**Fragment table for sample 11 : Leaf untreated 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,186	1,504	244.6	22.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-07\2013-10-07\_004.xad

Created: 10/7/2013 2:33:08 PM  
Modified: 10/7/2013 3:19:26 PM

**Gel Image**

