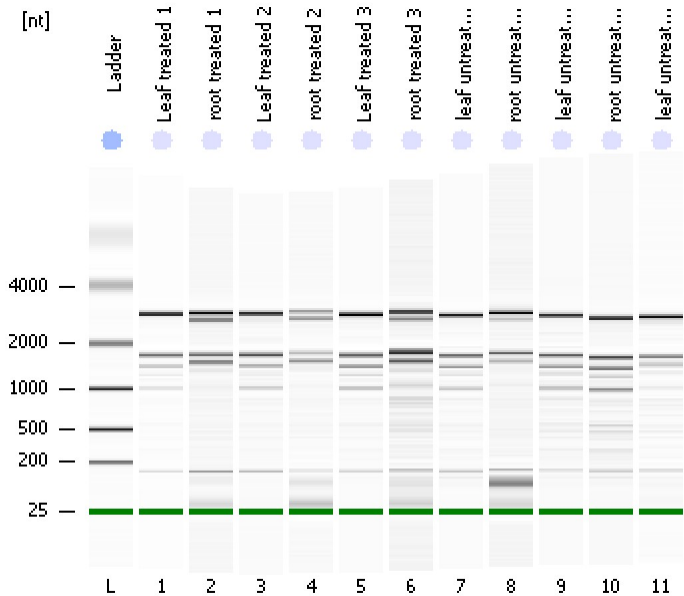


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
Modified: 10/9/2013 12:12:58 PM

Electrophoresis File Run Summary



Instrument Information:

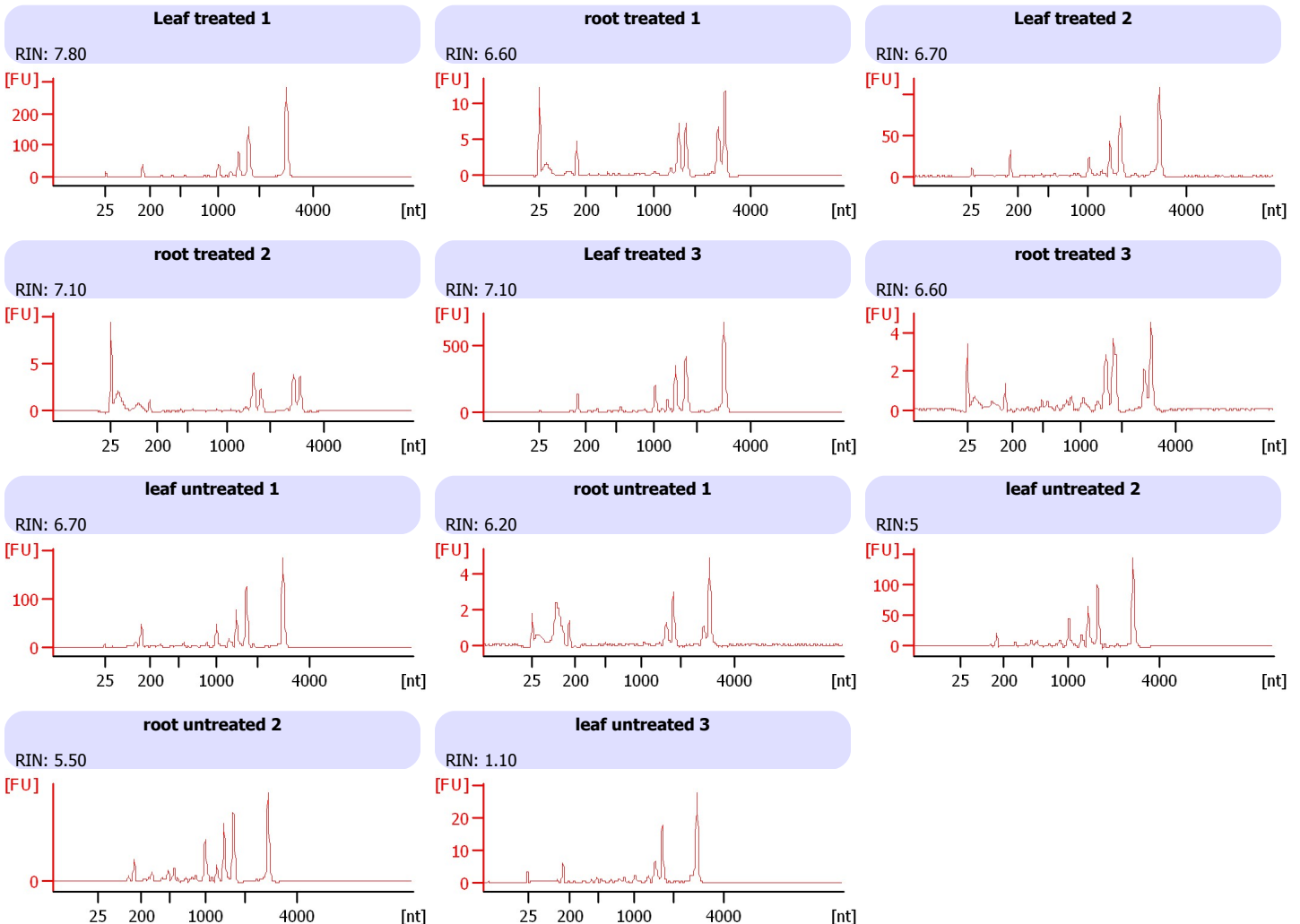
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Leaf treated 1		✓	RIN: 7.80	
root treated 1		✓	RIN: 6.60	
Leaf treated 2		✓	RIN: 6.70	
root treated 2		✓	RIN: 7.10	
Leaf treated 3		✓	RIN: 7.10	
root treated 3		✓	RIN: 6.60	
leaf untreated 1		✓	RIN: 6.70	
root untreated 1		✓	RIN: 6.20	
leaf untreated 2		✓	RIN: 5	
root untreated 2		✓	RIN: 5.50	
leaf untreated 3		✓	RIN: 1.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
Modified: 10/9/2013 12:12:58 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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ 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

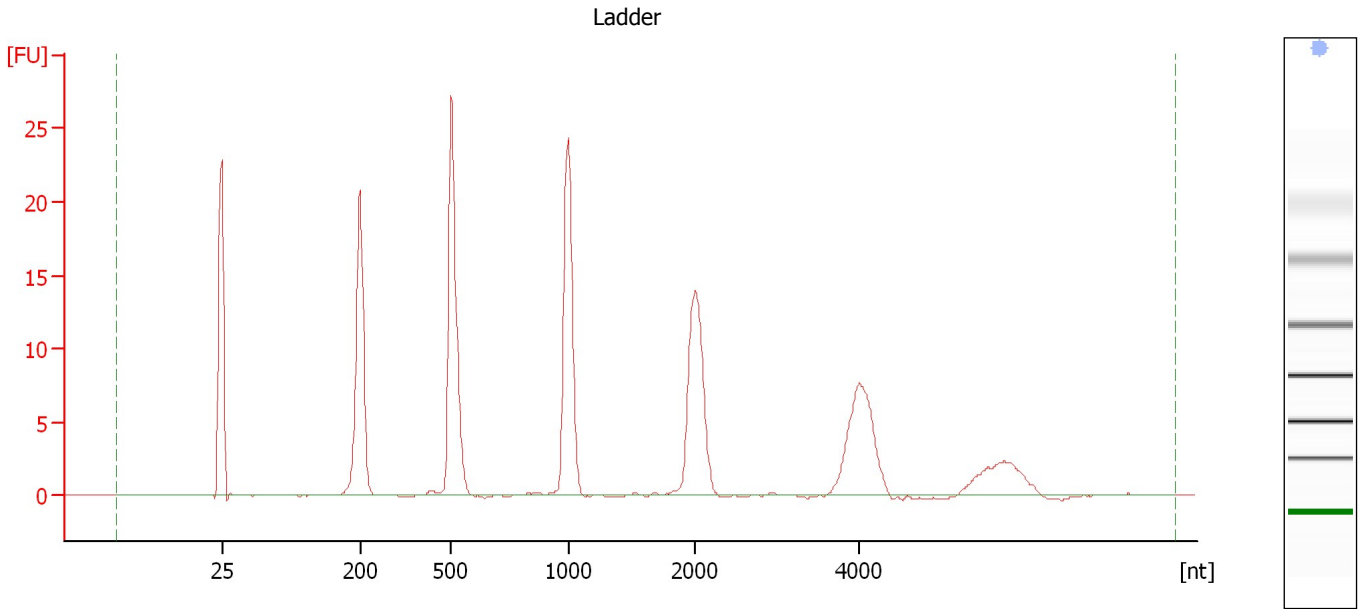
Ladder

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\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
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Electropherogram Summary



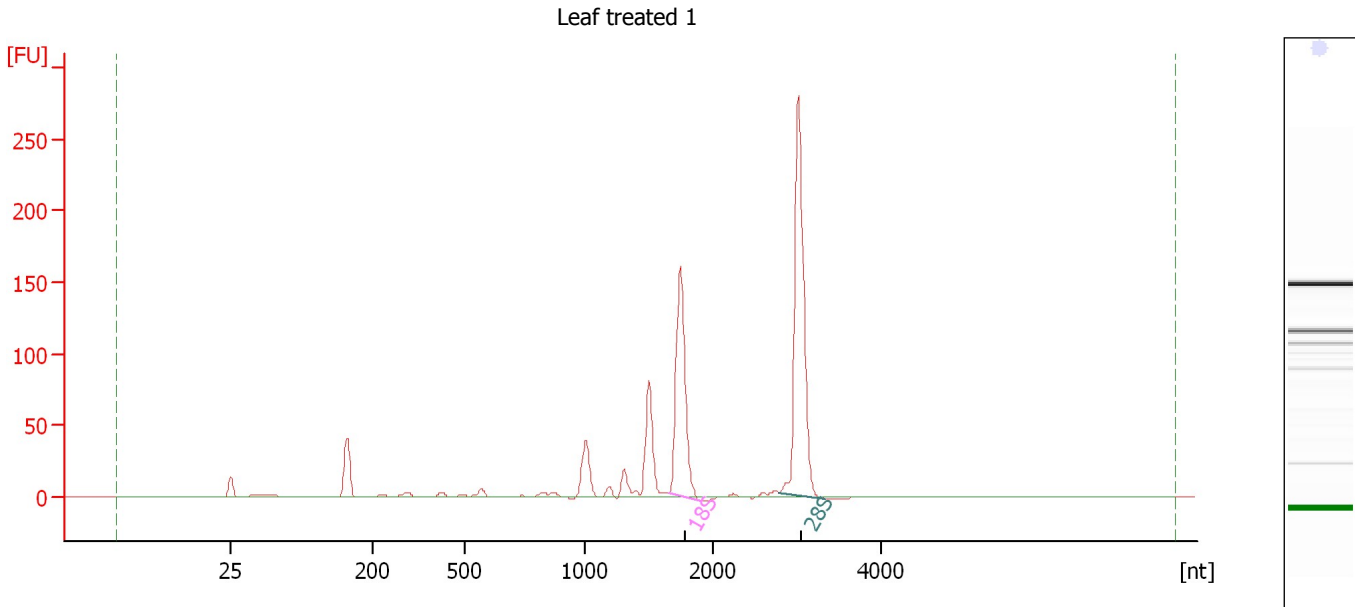
Overall Results for Ladder

RNA Area:	138.6	Result Flagging Color:	
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\2013-10-09\2013-10-09_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Leaf treated 1

RNA Area:	647.8	RNA Integrity Number (RIN):	7.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	4,676 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 7.80

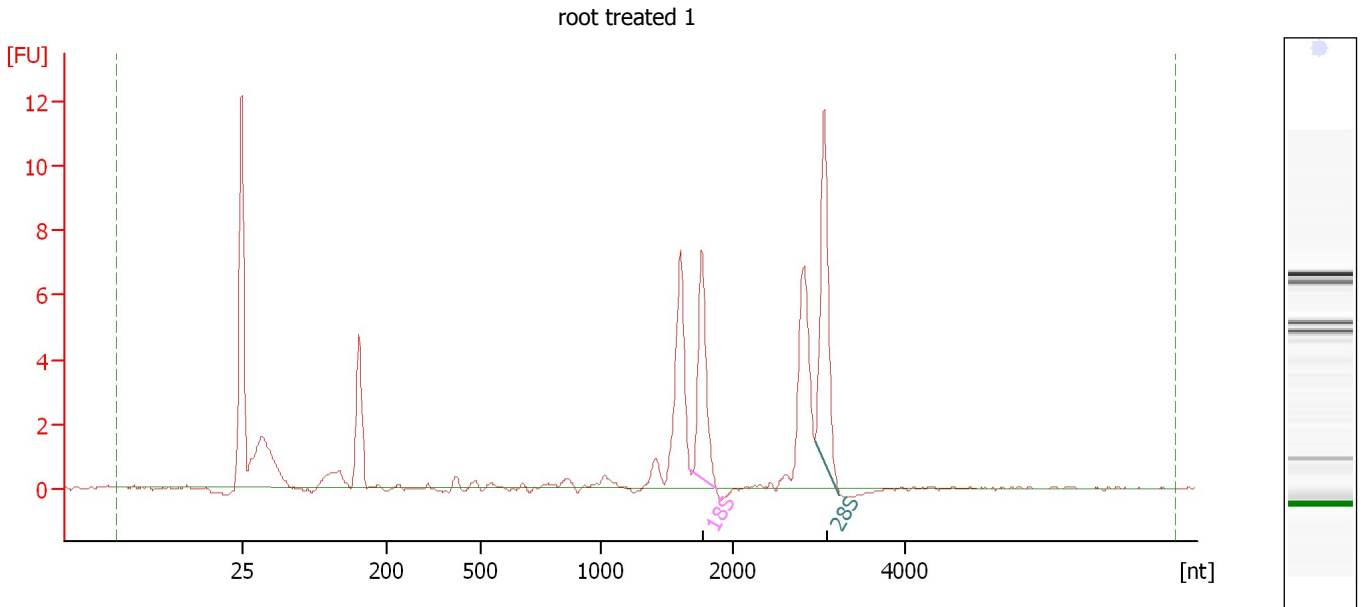
Fragment table for sample 1 : Leaf treated 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,660	1,899	169.6	26.2
28S	2,788	3,324	261.2	40.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : root treated 1

RNA Area: 49.2 RNA Integrity Number (RIN): 6.6 (B.02.08)
RNA Concentration: 355 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 6.60

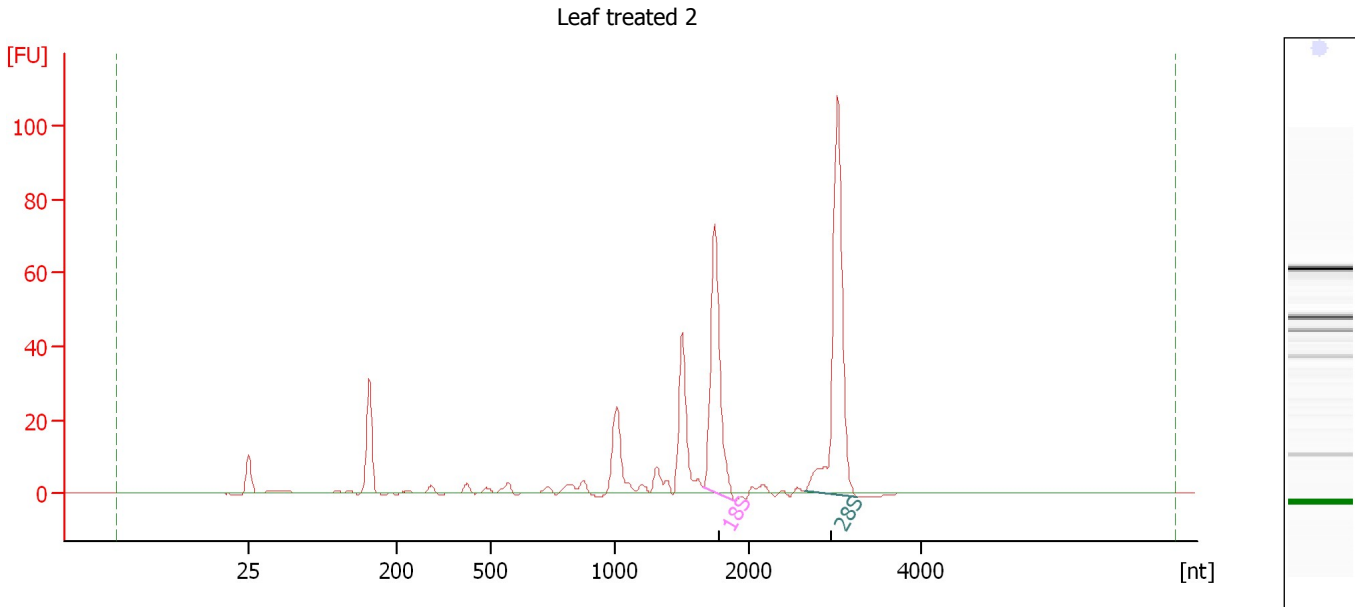
Fragment table for sample 2 : root treated 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,667	1,866	6.6	13.4
28S	2,946	3,234	8.8	17.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : Leaf treated 2

RNA Area: 321.8 RNA Integrity Number (RIN): 6.7 (B.02.08,
RNA Concentration: 2,322 pg/μl Anomaly Threshold(s)
rRNA Ratio [28s / 18s]: 1.4 manually adapted)
Result Flagging Color:
Result Flagging Label: RIN: 6.70

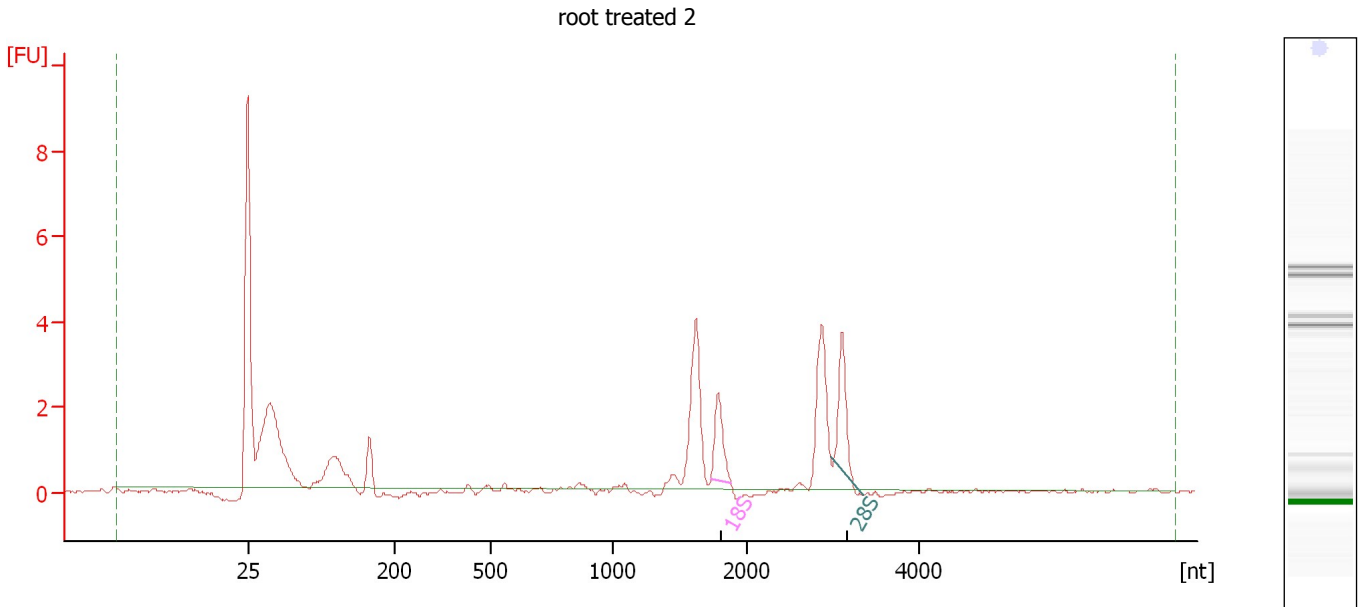
Fragment table for sample 3 : Leaf treated 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	1,907	78.5	24.4
28S	2,646	3,262	106.5	33.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : root treated 2

RNA Area: 26.2 RNA Integrity Number (RIN): 7.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 189 µg/µl
rRNA Ratio [28s / 18s]: 1.3
Result Flagging Color:
Result Flagging Label: RIN: 7.10

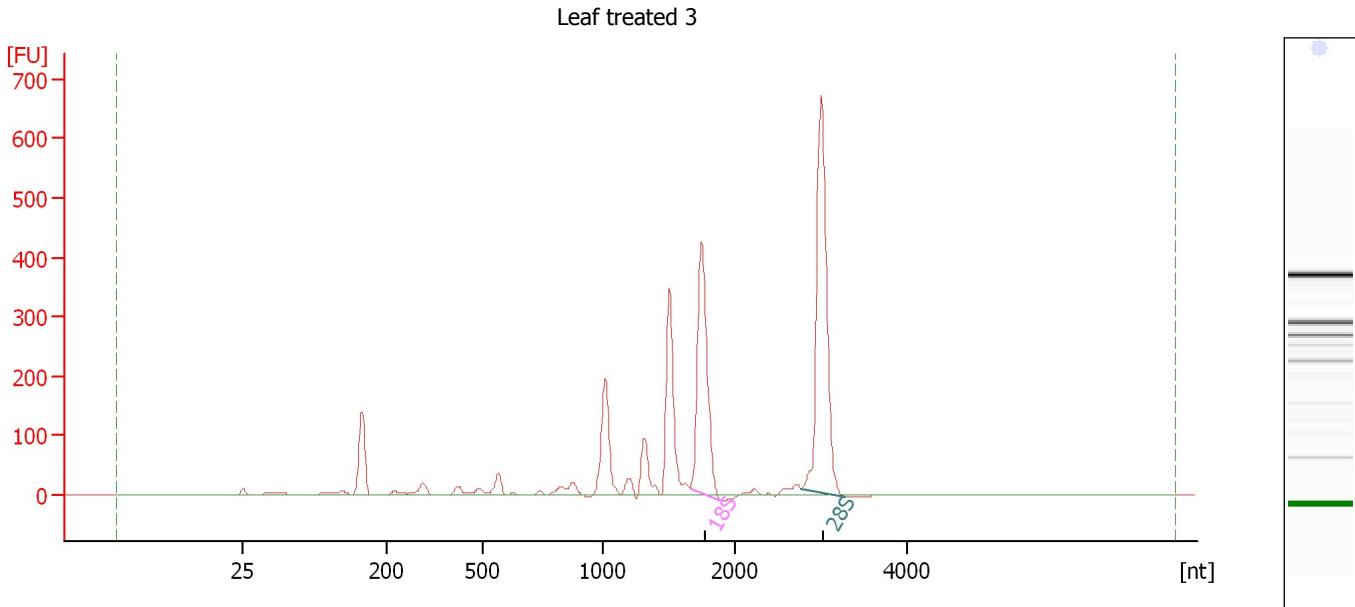
Fragment table for sample 4 : root treated 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,733	1,886	2.0	7.5
28S	2,975	3,347	2.5	9.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : Leaf treated 3

RNA Area:	2,105.3	RNA Integrity Number (RIN):	7.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	15,194 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.10

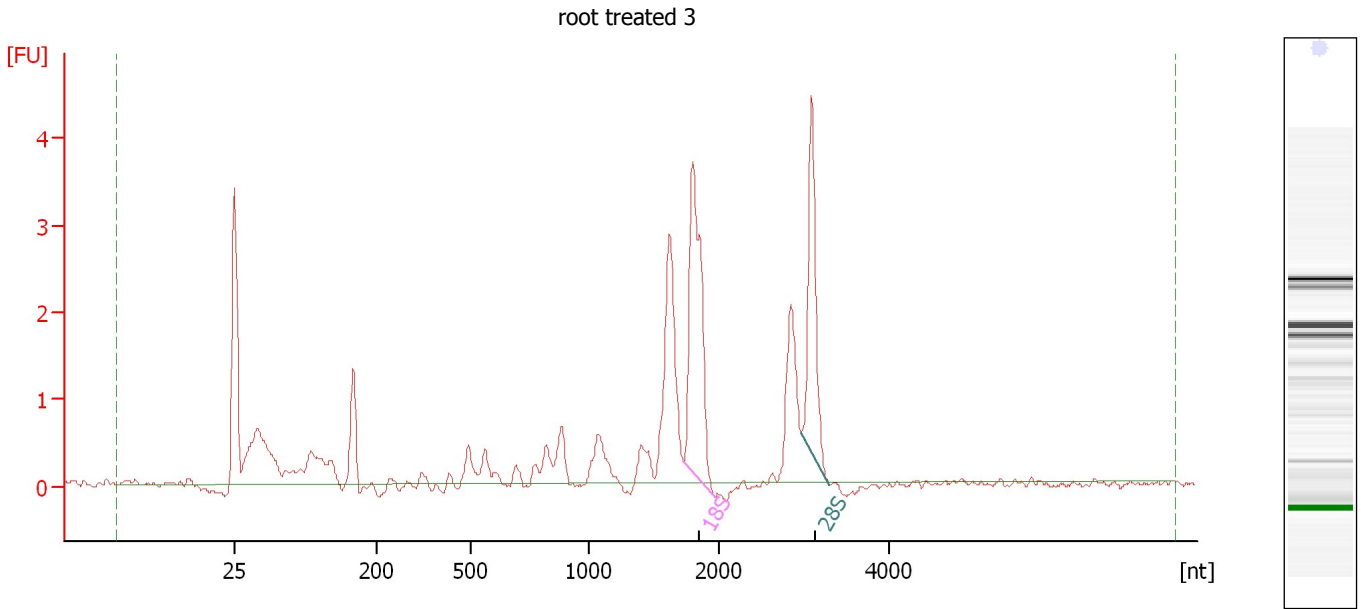
Fragment table for sample 5 : Leaf treated 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,893	485.8	23.1
28S	2,771	3,283	672.8	32.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : root treated 3

RNA Area:	25.8	RNA Integrity Number (RIN):	6.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	186 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 6.60

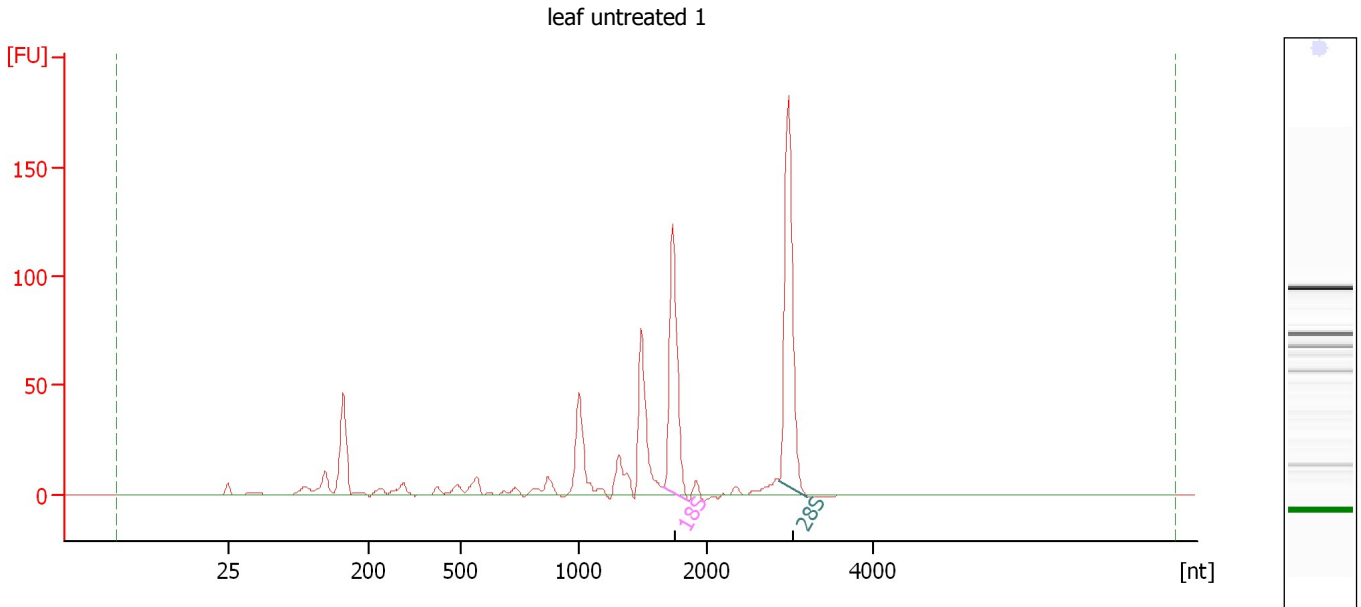
Fragment table for sample 6 : root treated 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,722	1,968	4.9	18.9
28S	2,977	3,306	3.2	12.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : leaf untreated 1

RNA Area: 540.4 Result Flagging Color:
RNA Concentration: 3,900 pg/μl Result Flagging Label: RIN: 6.70
rRNA Ratio [28s / 18s]: 1.3

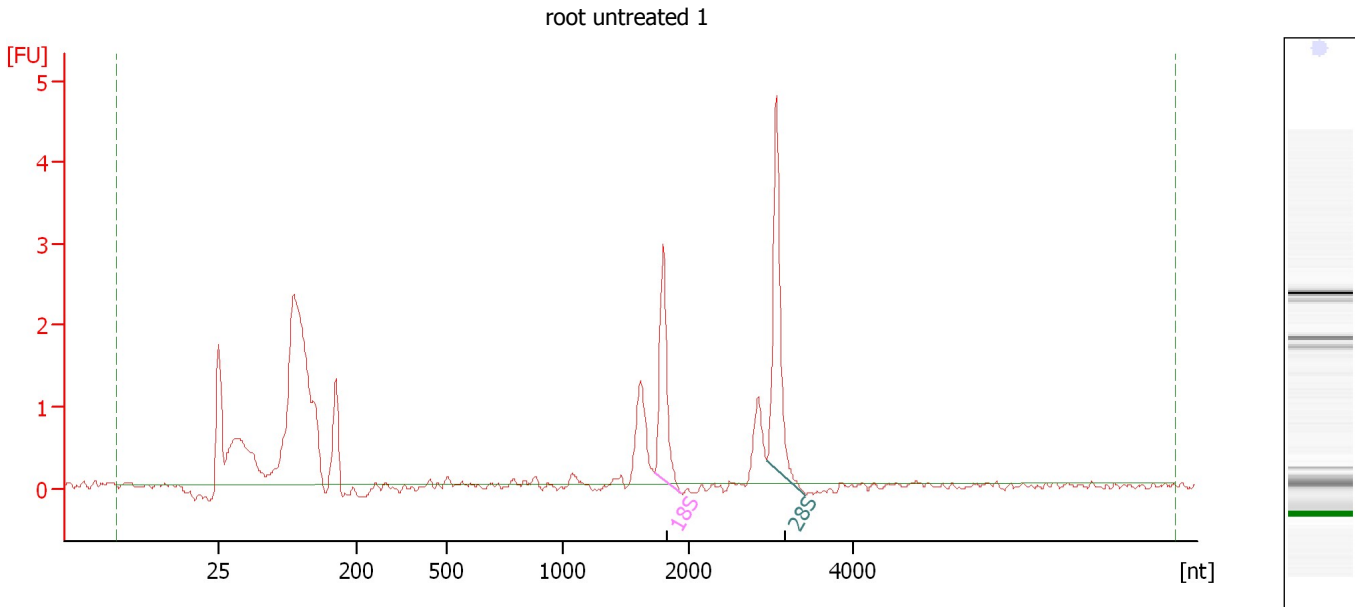
Fragment table for sample 7 : leaf untreated 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,655	1,855	112.2	20.8
28S	2,866	3,200	143.3	26.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : root untreated 1

RNA Area:	23.4	RNA Integrity Number (RIN):	6.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	169 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 6.20

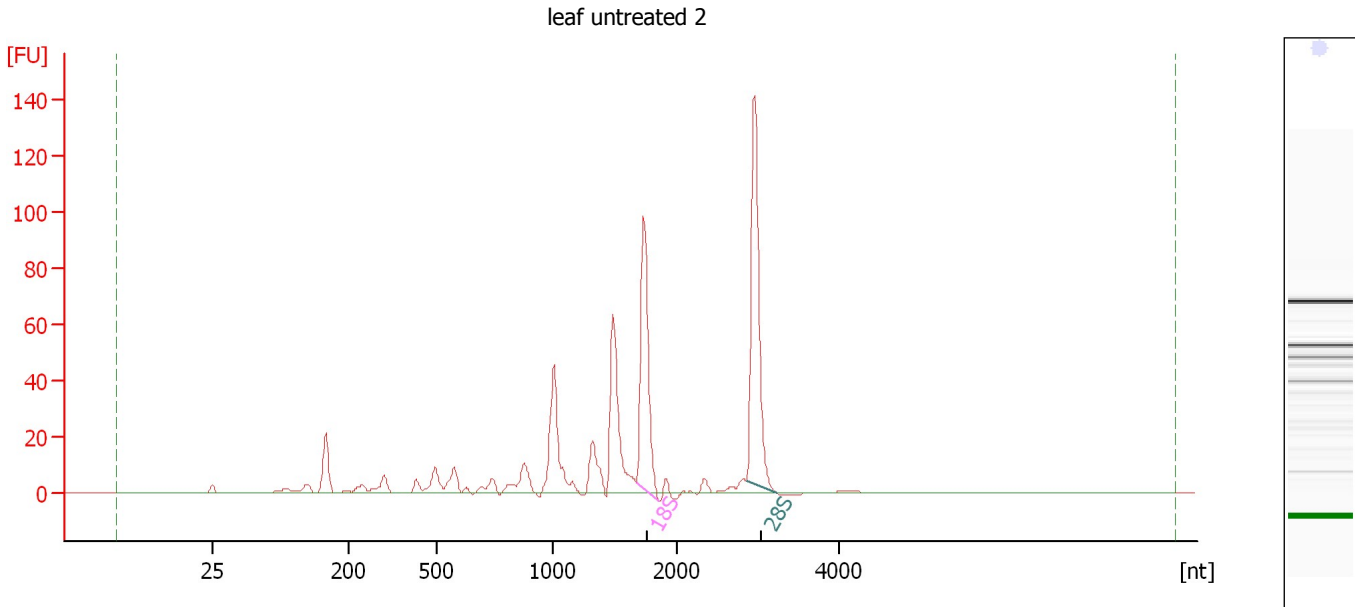
Fragment table for sample 8 : root untreated 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,727	1,938	2.4	10.2
28S	2,950	3,420	3.6	15.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : leaf untreated 2

RNA Area: 440.5 RNA Integrity Number (RIN): 5 (B.02.08)
RNA Concentration: 3,179 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN:5

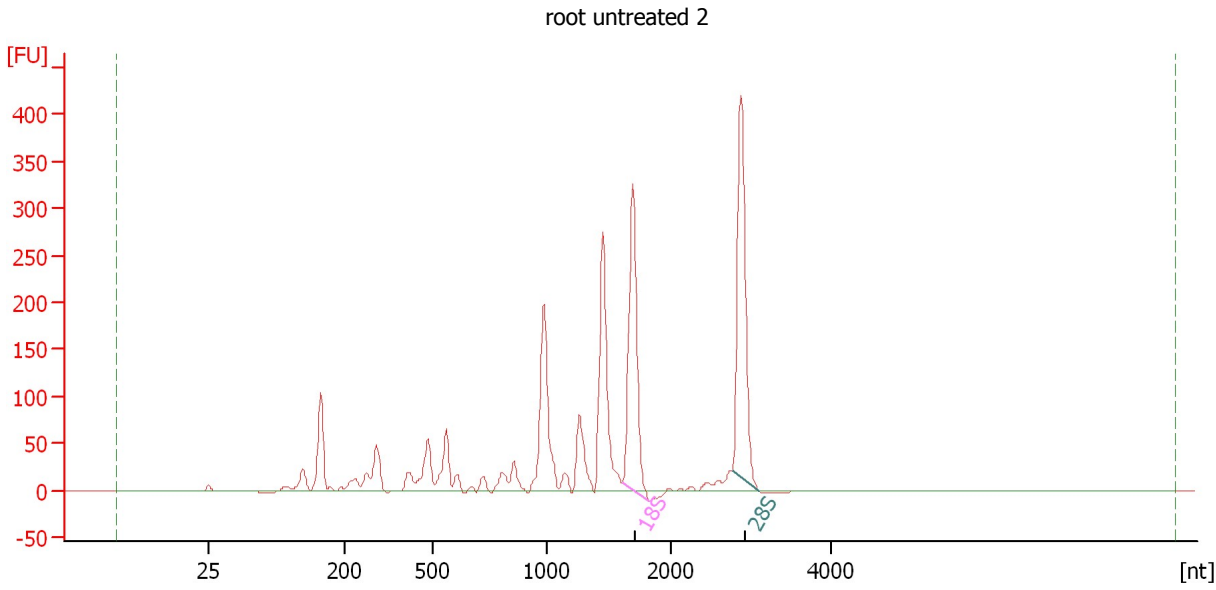
Fragment table for sample 9 : leaf untreated 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	1,864	86.1	19.5
28S	2,862	3,245	111.0	25.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : root untreated 2

RNA Area: 1,761.1 RNA Integrity Number (RIN): 5.5 (B.02.08)
RNA Concentration: 12,710 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 5.50

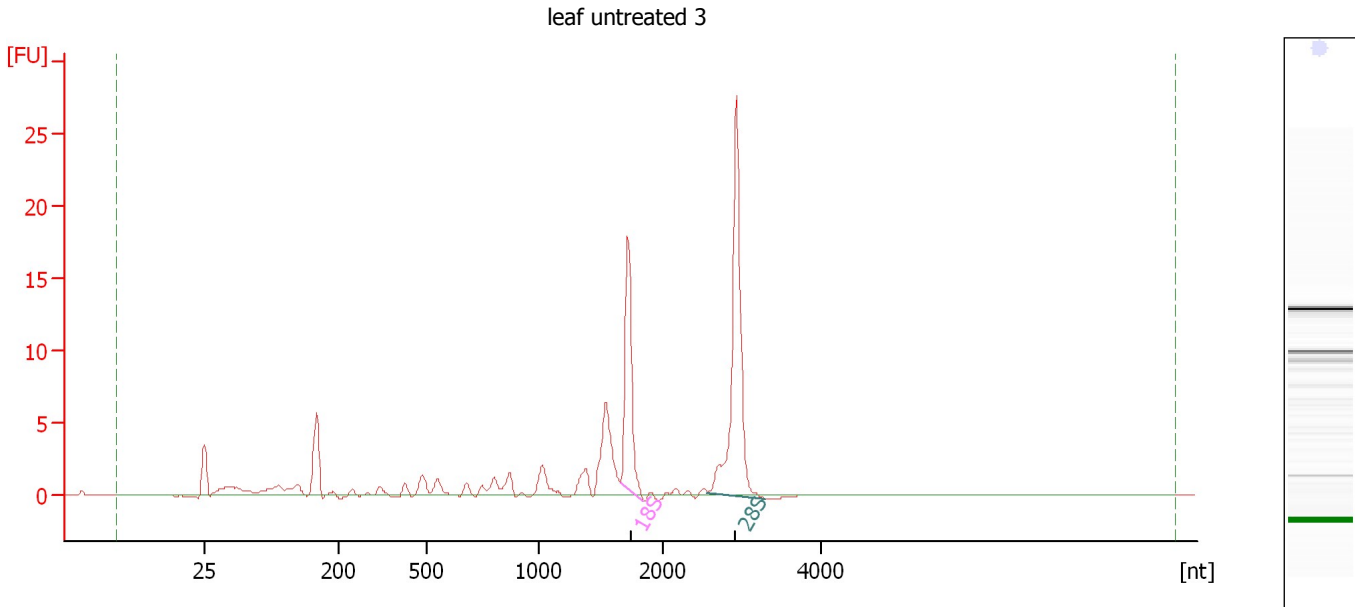
Fragment table for sample 10 : root untreated 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,826	321.9	18.3
28S	2,770	3,103	345.4	19.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : leaf untreated 3

RNA Area:	74.8	RNA Integrity Number (RIN):	1.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	540 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 1.10

Fragment table for sample 11 : leaf untreated 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,848	13.5	18.0
28S	2,570	3,296	26.0	34.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-10-09\2013-10-09_003.xad

Created: 10/9/2013 11:46:05 AM
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Gel Image

