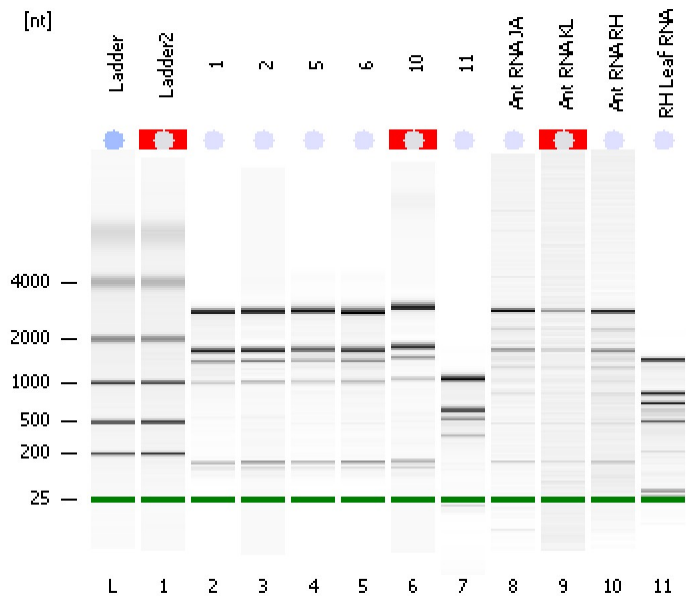


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
 Modified: 6/24/2014 5:22:30 PM

Electrophoresis File Run Summary



Instrument Information:

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

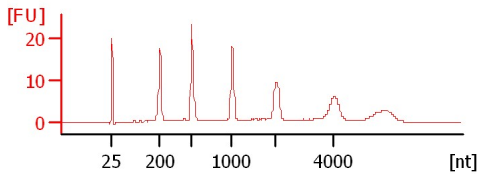
Assay Information:

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)
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

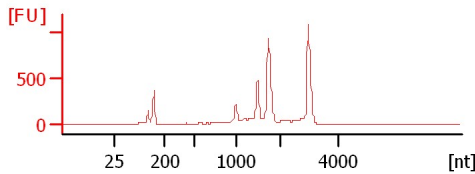
Chip Information:

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

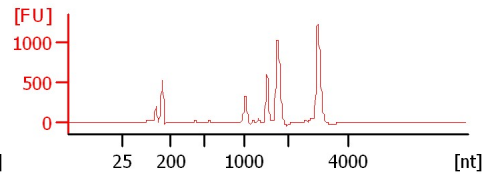
Ladder2
 RIN N/A



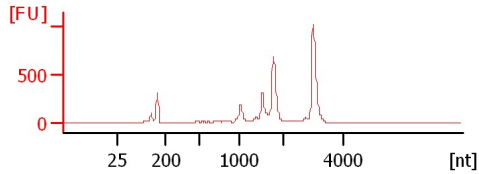
1
 RIN: 7.40



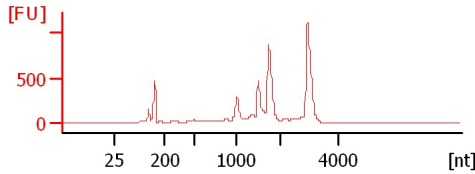
2
 RIN: 6.90



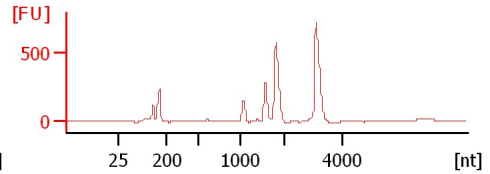
5
 RIN: 7.90



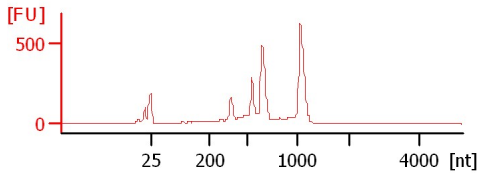
6
 RIN: 7.50



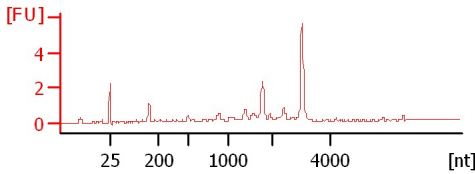
10
 RIN N/A



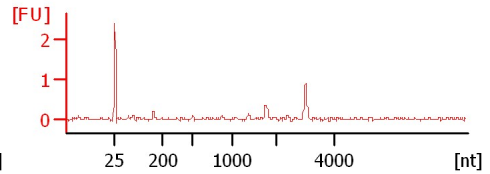
11
 RIN: 1.20



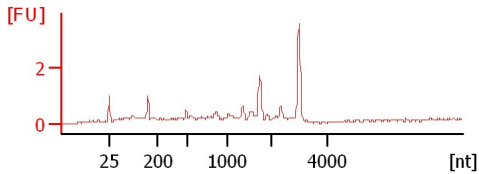
Ant RNA JA
 RIN: 8.10



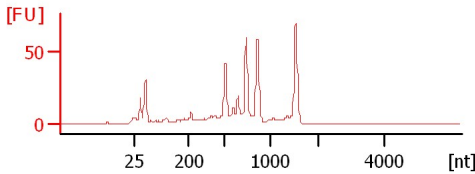
Ant RNA KL
 RIN N/A



Ant RNA RH
 RIN: 7.40



RH Leaf RNA
 RIN: 5



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
 Modified: 6/24/2014 5:22:30 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Ladder2		✓	RIN N/A	
1		✓	RIN: 7.40	
2		✓	RIN: 6.90	
5		✓	RIN: 7.90	
6		✓	RIN: 7.50	
10		✓	RIN N/A	
11		✓	RIN: 1.20	
Ant RNA JA		✓	RIN: 8.10	
Ant RNA KL		✓	RIN N/A	
Ant RNA RH		✓	RIN: 7.40	
RH Leaf RNA		✓	RIN:5	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 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

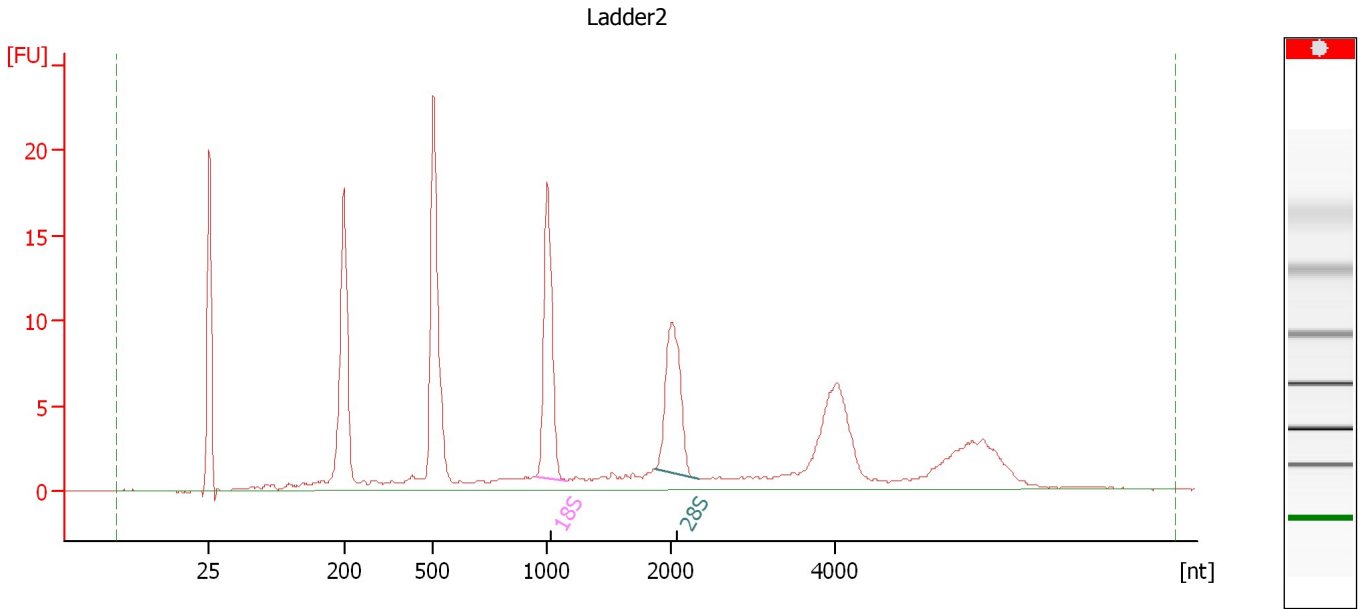
Ladder

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

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
 Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary



Overall Results for sample 1 : Ladder2

RNA Area:	158.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,006 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN N/A

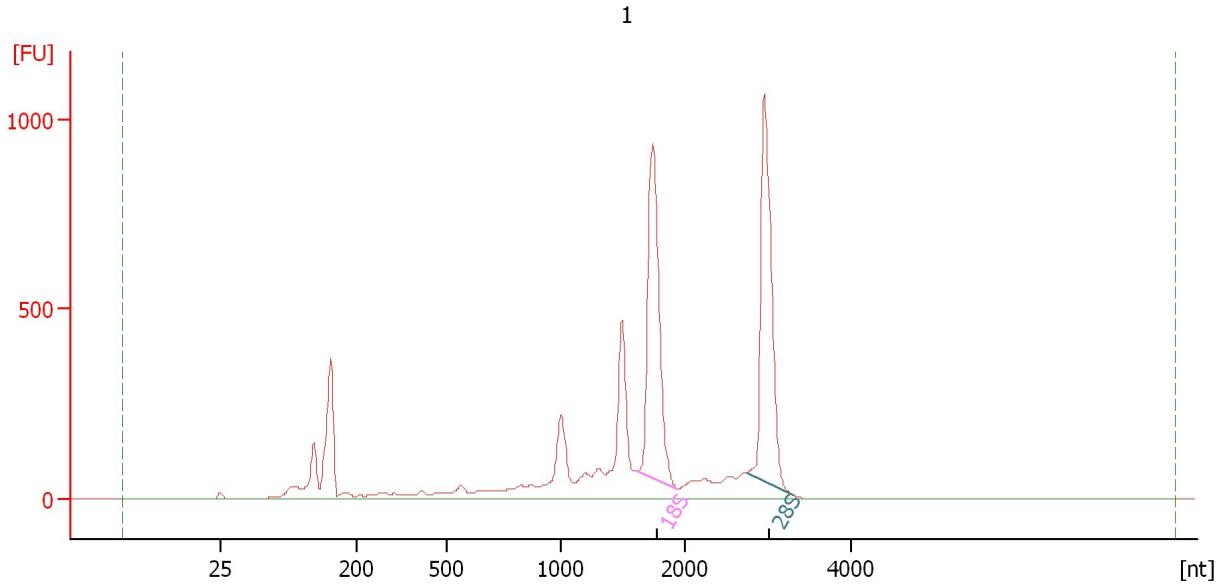
Fragment table for sample 1 : Ladder2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	950	1,158	19.2	12.1
28S	1,875	2,334	15.9	10.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1

RNA Area: 5,621.2 RNA Integrity Number (RIN): 7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 35,600 pg/μl
rRNA Ratio [28s / 18s]: 1.0
Result Flagging Color:
Result Flagging Label: RIN: 7.40

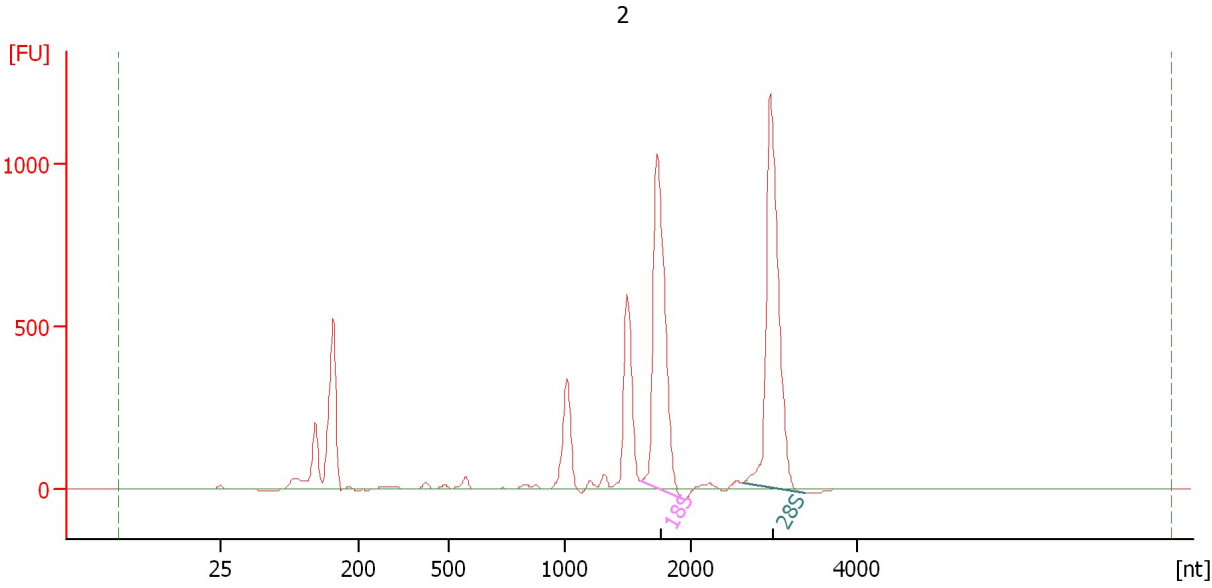
Fragment table for sample 2 : 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,933	1,192.5	21.2
28S	2,737	3,291	1,159.0	20.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 2

RNA Area:	5,307.3	RNA Integrity Number (RIN):	6.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	33,612 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 6.90

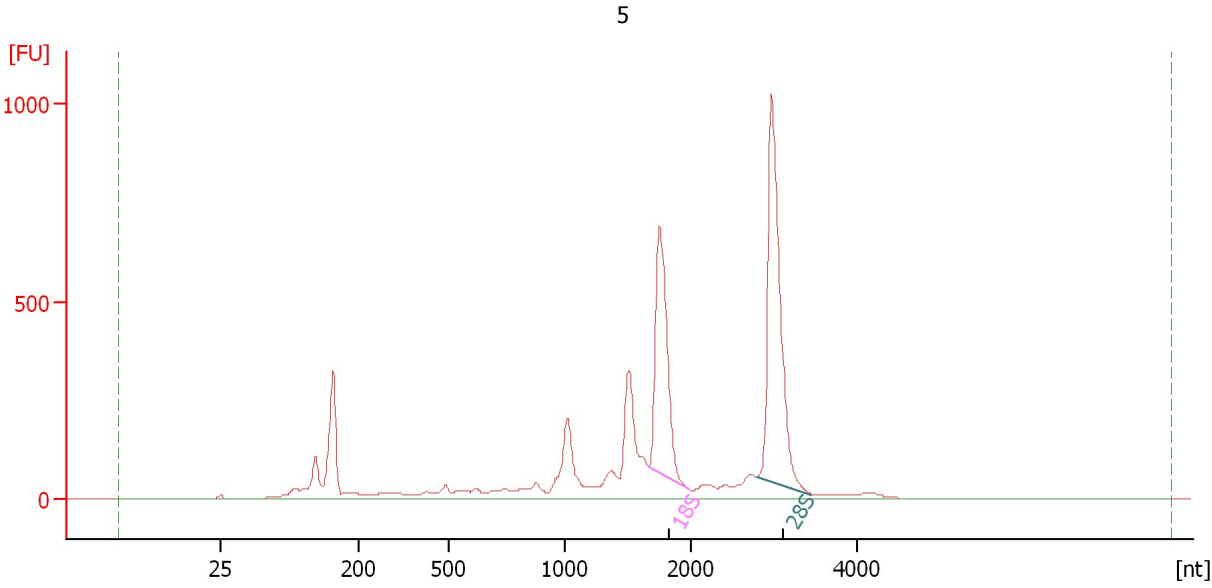
Fragment table for sample 3 : 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	1,945	1,472.4	27.7
28S	2,633	3,374	1,618.5	30.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
 Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 5

RNA Area:	5,145.1	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	32,585 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 7.90

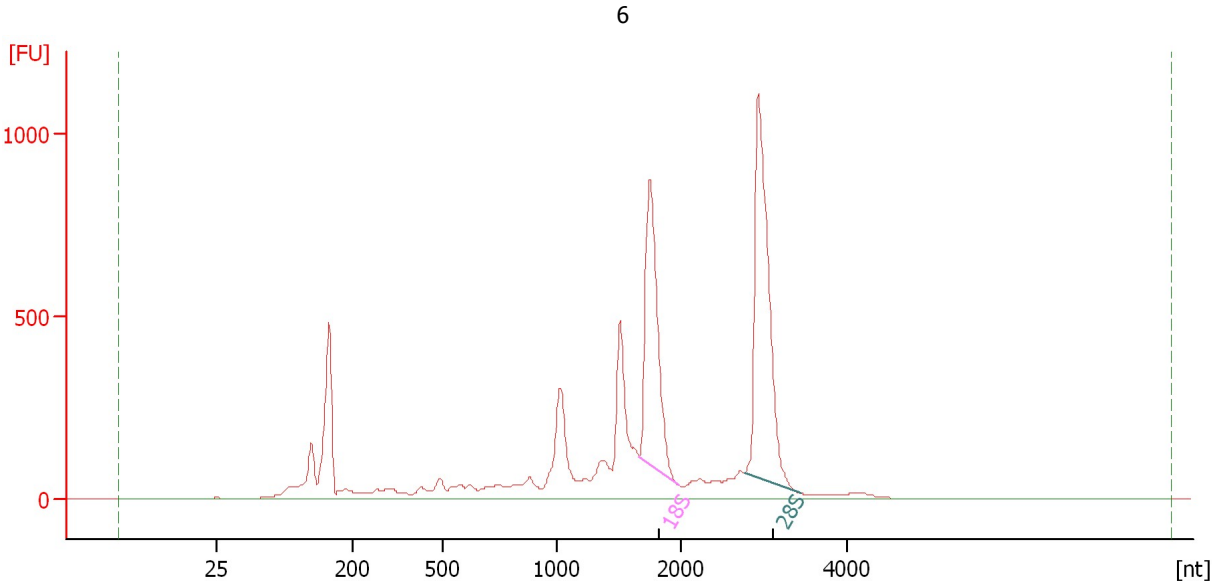
Fragment table for sample 4 : 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	1,987	869.2	16.9
28S	2,799	3,464	1,297.3	25.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 6

RNA Area:	7,029.3	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	44,517 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.50

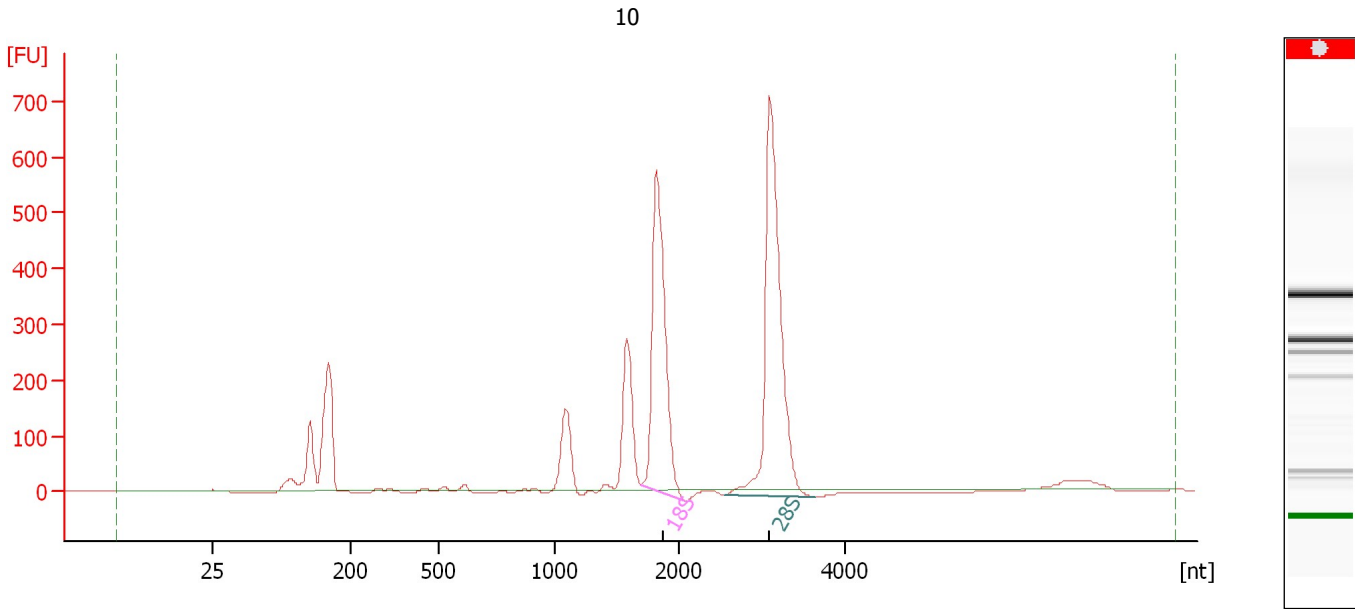
Fragment table for sample 5 : 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,660	1,976	1,135.5	16.2
28S	2,762	3,445	1,558.2	22.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
 Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 10

RNA Area:	3,112.9	RNA Integrity Number (RIN):	N/A (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	19,714 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN N/A

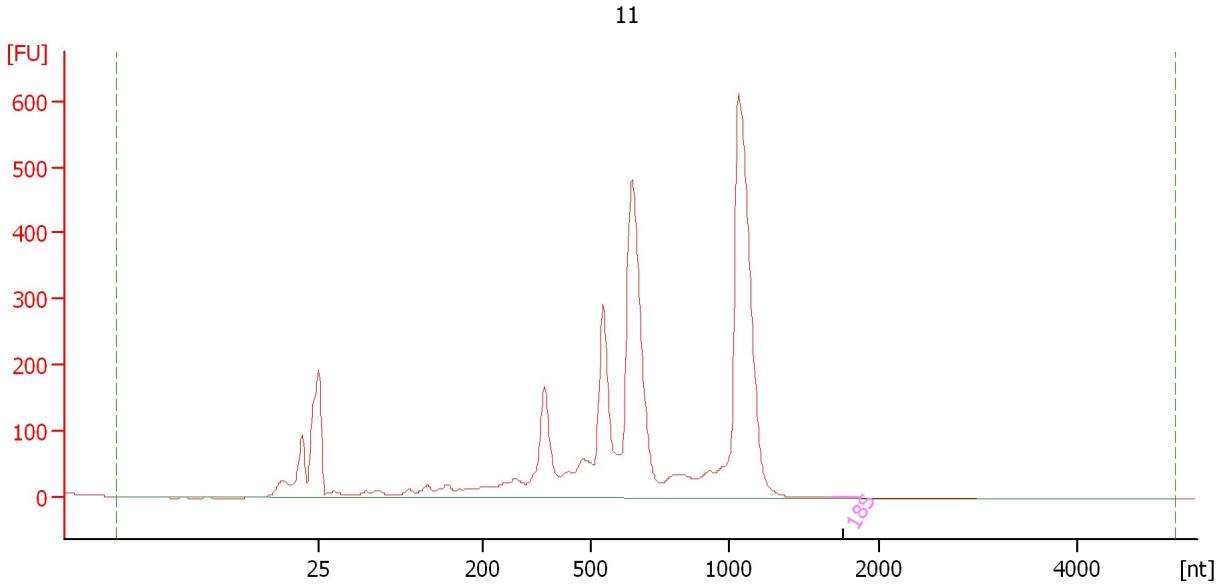
Fragment table for sample 6 : 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,700	2,064	874.6	28.1
28S	2,556	3,643	1,132.2	36.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 11

RNA Area:	3,571.0	RNA Integrity Number (RIN):	1.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	22,616 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.20

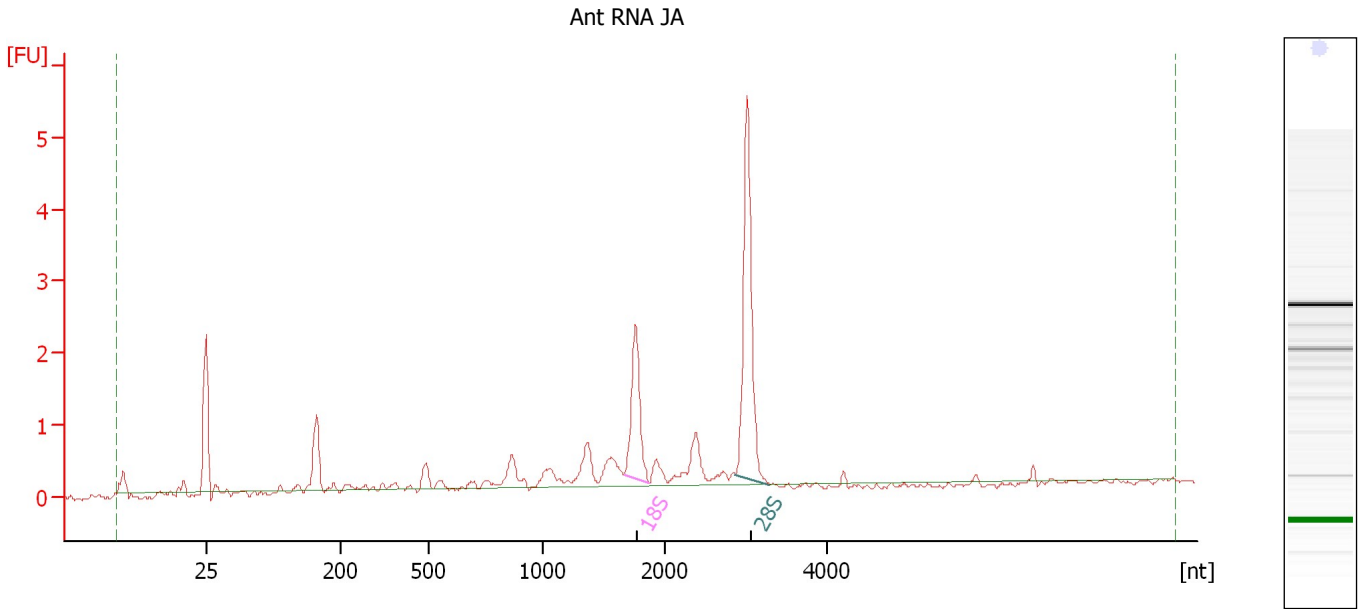
Fragment table for sample 7 : 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	1,857	1.1	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Ant RNA JA

RNA Area: 15.6 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 99 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 8.10

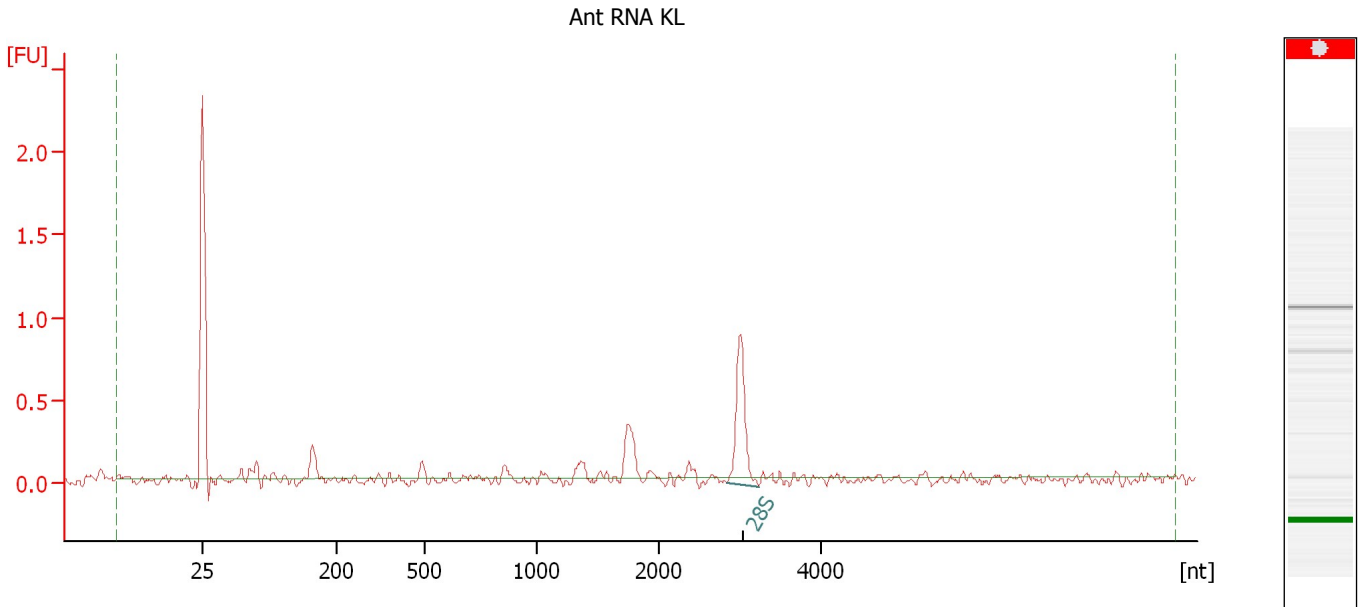
Fragment table for sample 8 : Ant RNA JA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	1,872	2.3	14.5
28S	2,871	3,291	4.8	30.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Ant RNA KL

RNA Area:	2.4	RNA Integrity Number (RIN):	N/A (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	15 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

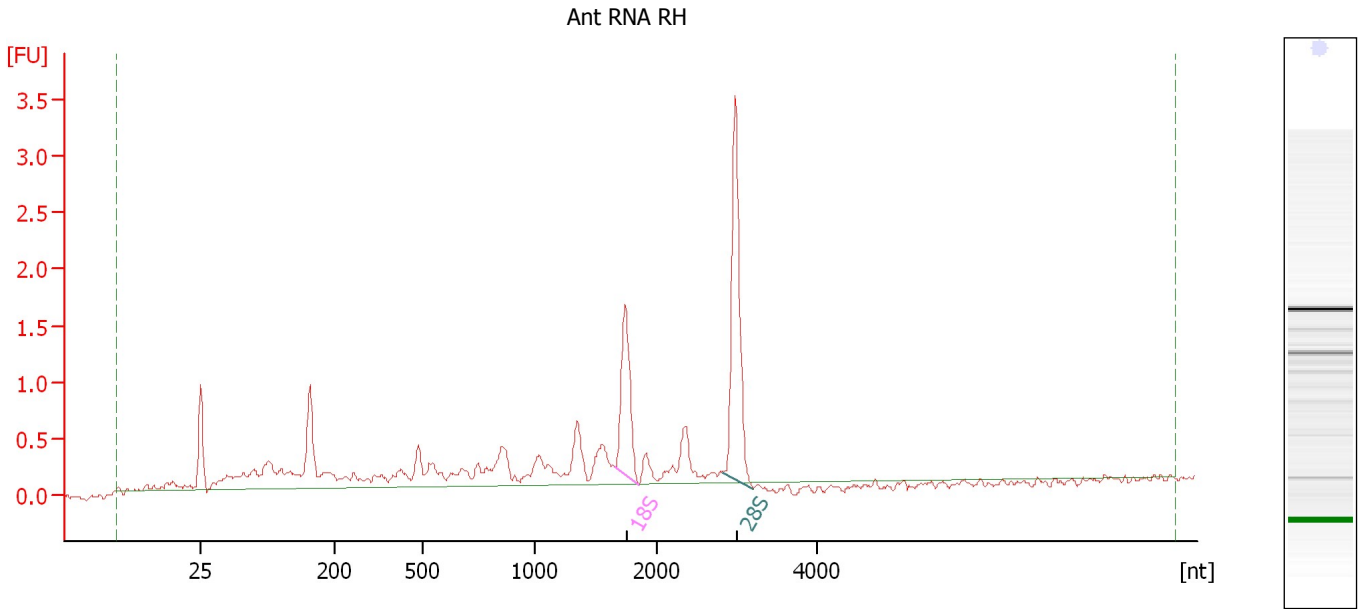
Fragment table for sample 9 : Ant RNA KL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,847	3,230	0.9	36.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Ant RNA RH

RNA Area:	15.7	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	100 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 7.40

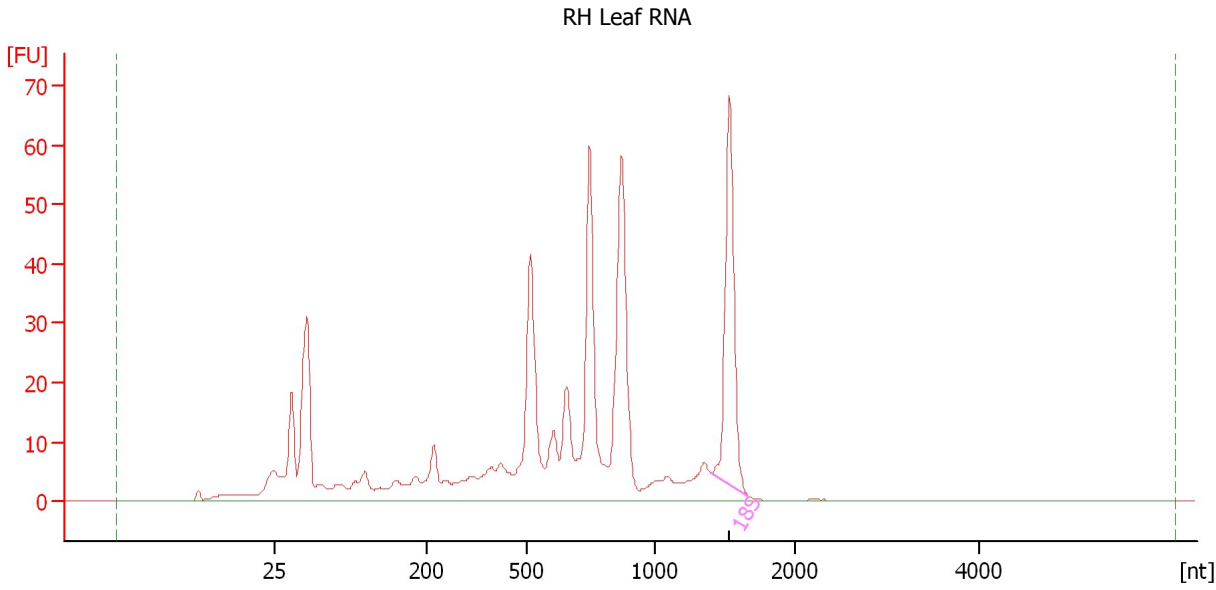
Fragment table for sample 10 : Ant RNA RH

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,850	1.6	10.2
28S	2,834	3,205	3.0	19.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RH Leaf RNA

RNA Area:	521.2	RNA Integrity Number (RIN):	5 (B.02.08)
RNA Concentration:	3,301 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:5

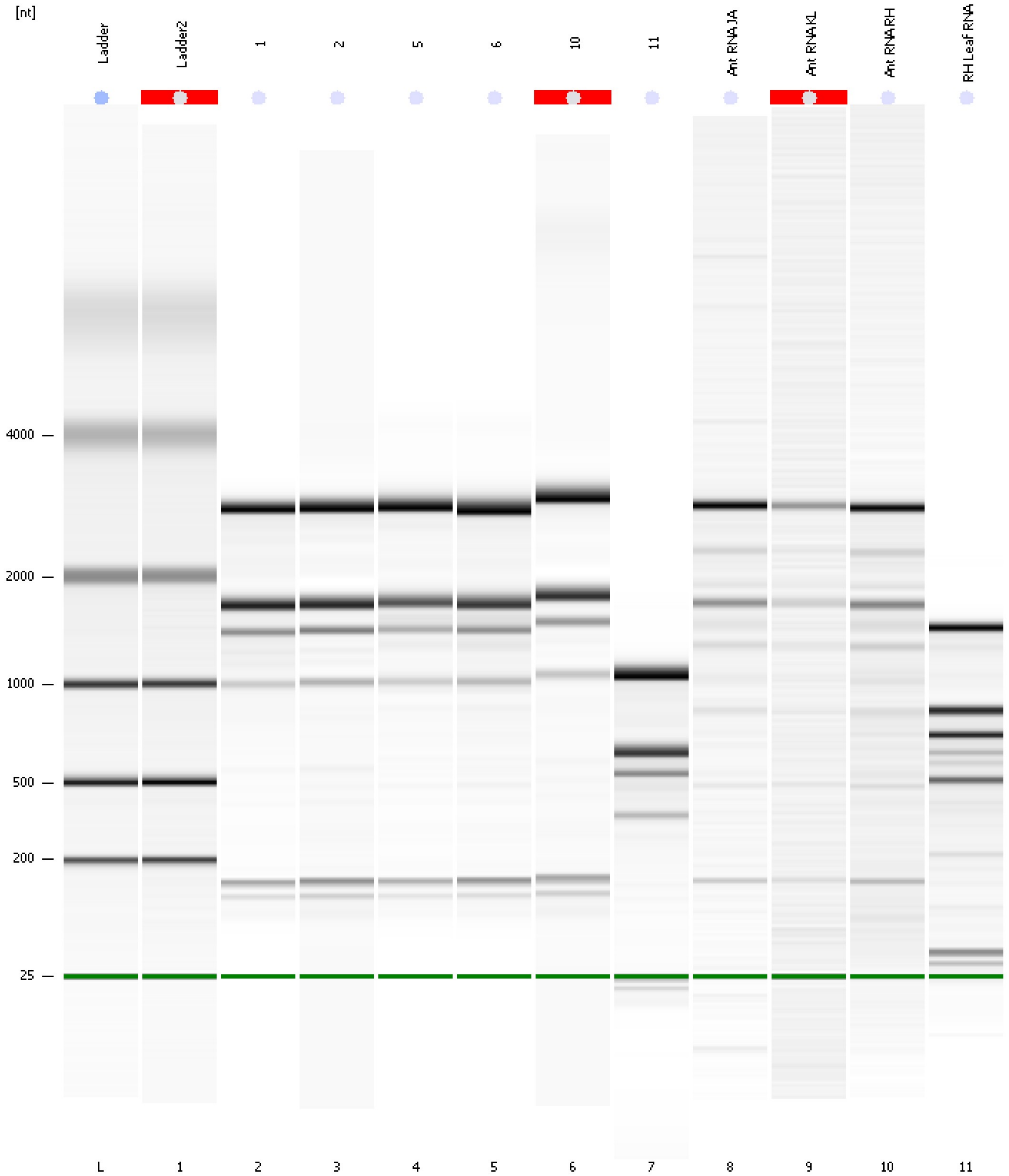
Fragment table for sample 11 : RH Leaf RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,396	1,664	64.8	12.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-06-24\2014-06-24_002.xad

Created: 6/24/2014 4:53:35 PM
Modified: 6/24/2014 5:22:30 PM

Curves

Standard Curve

