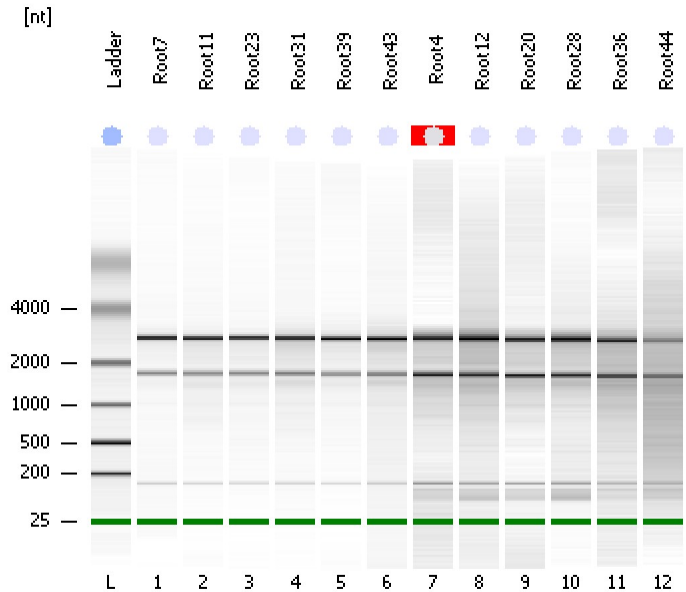


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

Electrophoresis File Run Summary



Instrument Information:

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

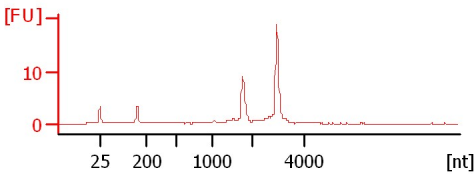
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy  
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

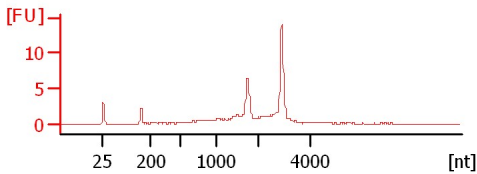
Chip Information:

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

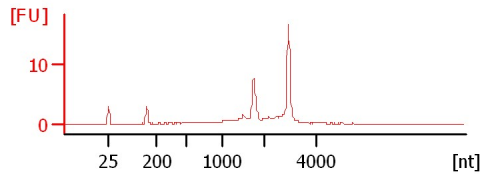
**Root7**  
RIN: 8.50



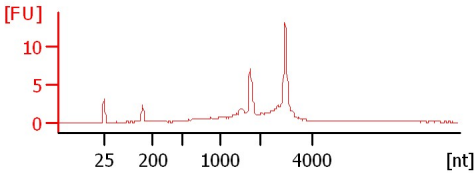
**Root11**  
RIN: 8



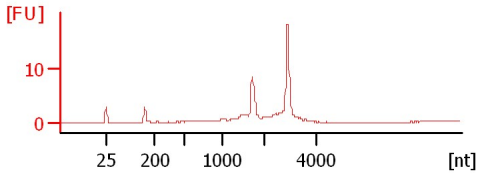
**Root23**  
RIN: 8.20



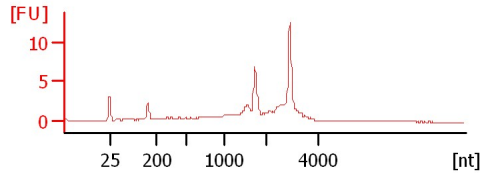
**Root31**  
RIN: 8.20



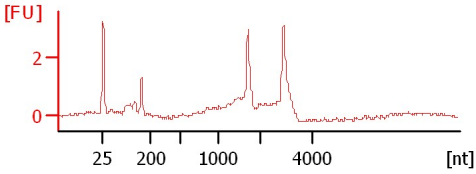
**Root39**  
RIN: 8.40



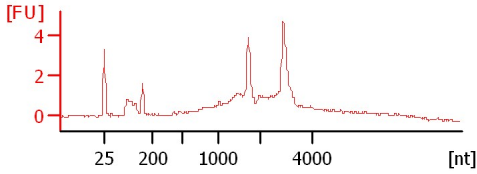
**Root43**  
RIN: 8



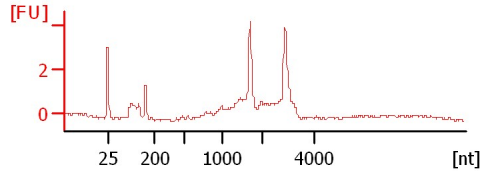
**Root4**  
RIN N/A



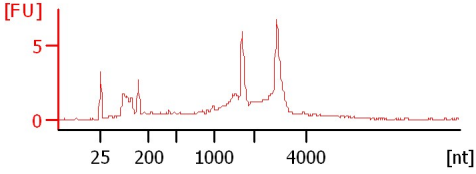
**Root12**  
RIN: 6.80



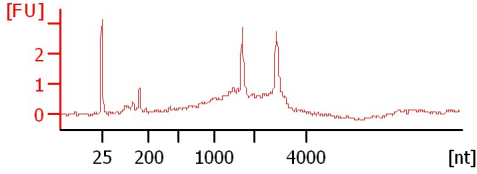
**Root20**  
RIN: 7.60



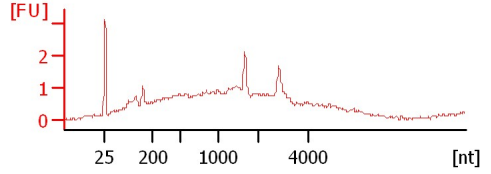
**Root28**  
RIN: 6.70



**Root36**  
RIN: 6.10



**Root44**  
RIN: 4.30



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
 Modified: 9/19/2017 3:47:15 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Root7		✓	RIN: 8.50	
Root11		✓	RIN:8	
Root23		✓	RIN: 8.20	
Root31		✓	RIN: 8.20	
Root39		✓	RIN: 8.40	
Root43		✓	RIN:8	
Root4		✓	RIN N/A	
Root12		✓	RIN: 6.80	
Root20		✓	RIN: 7.60	
Root28		✓	RIN: 6.70	
Root36		✓	RIN: 6.10	
Root44		✓	RIN: 4.30	
Ladder		✓	All Other Samples	

**Chip Lot #**

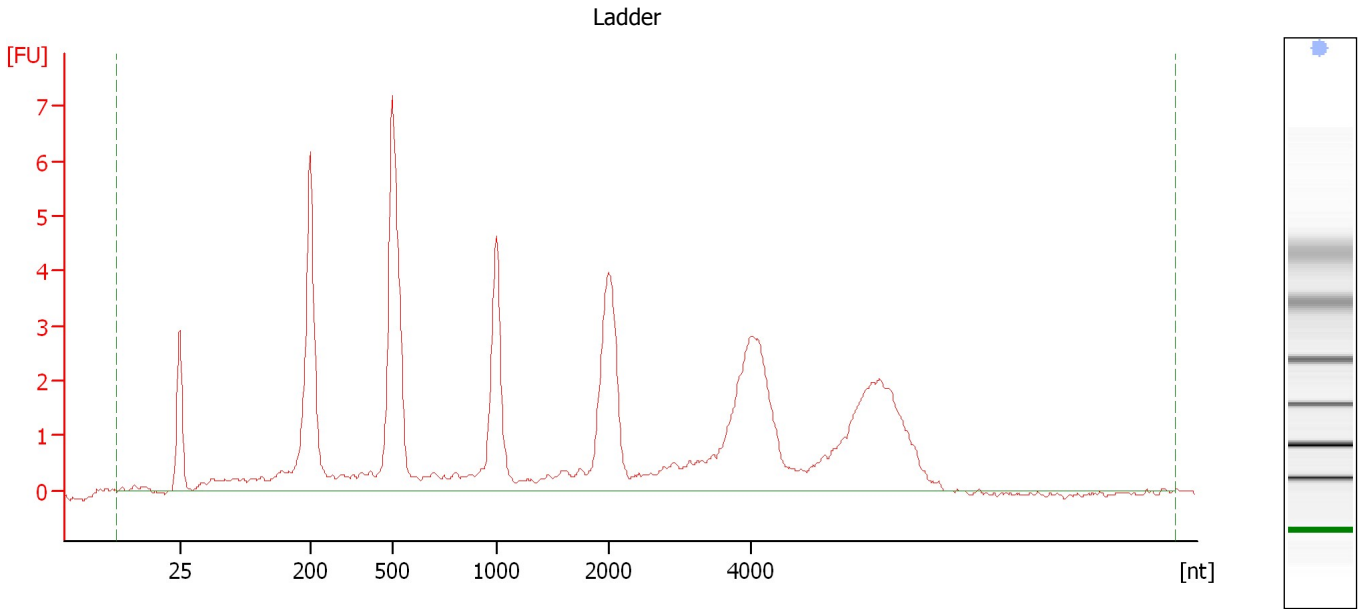
**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary**



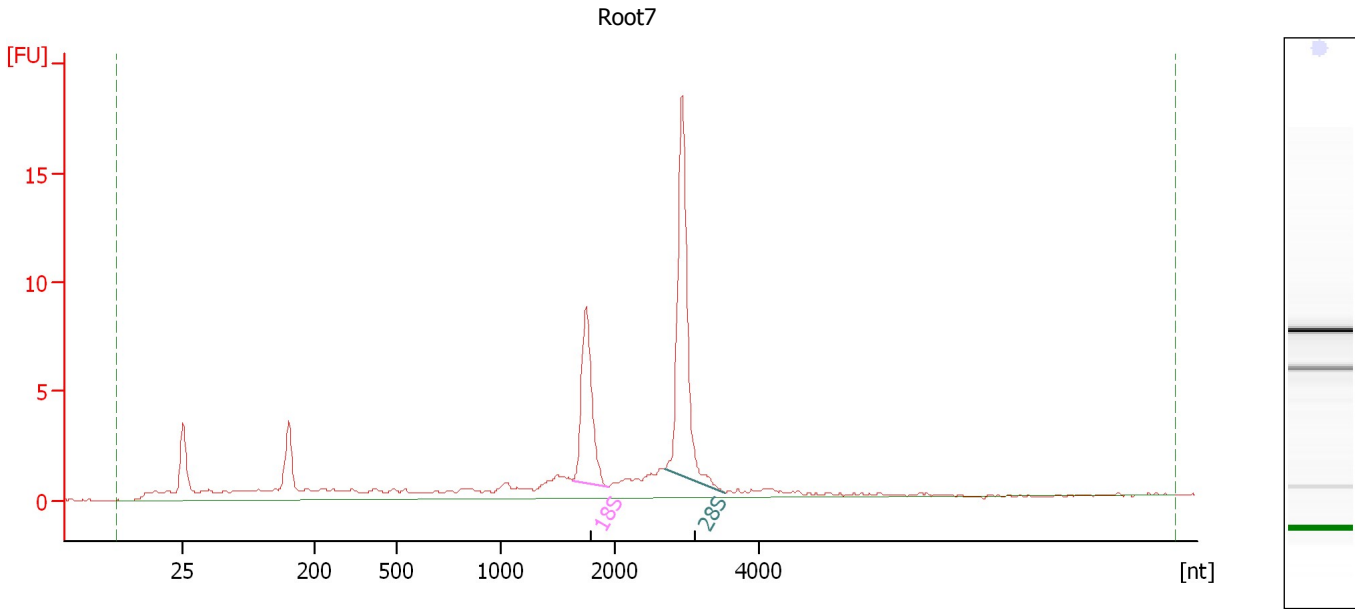
**Overall Results for Ladder**

RNA Area:	77.2	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: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Root7**

RNA Area:	77.9	RNA Integrity Number (RIN):	8.5 (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 [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.50

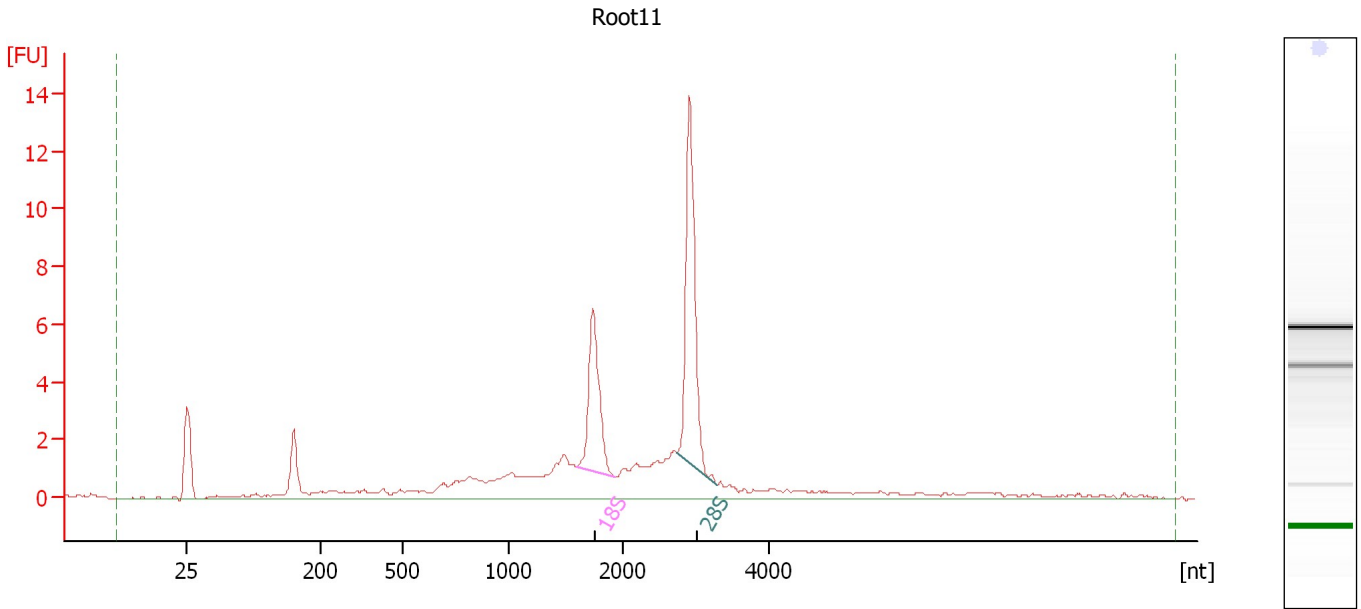
**Fragment table for sample 1 : Root7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,946	10.9	13.9
28S	2,686	3,531	20.1	25.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Root11**

RNA Area: 66.2                      RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 129 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7                      Result Flagging Label: RIN:8

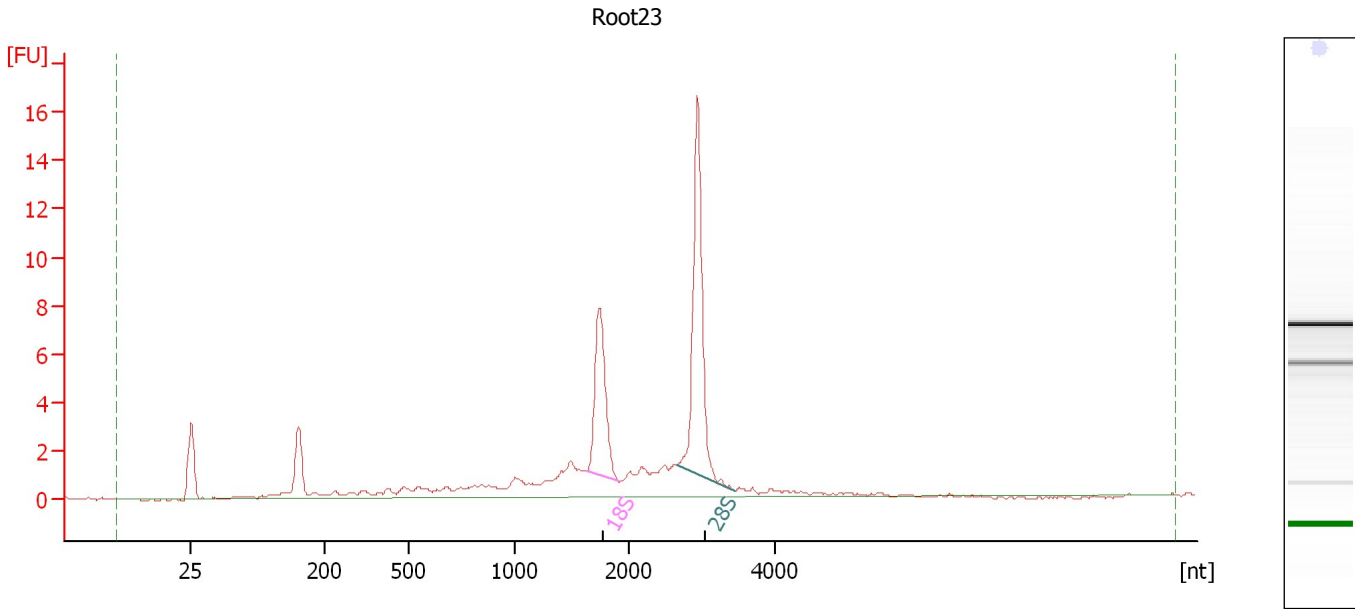
**Fragment table for sample 2 : Root11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,931	7.7	11.6
28S	2,745	3,289	12.9	19.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Root23**

RNA Area: 61.5                      RNA Integrity Number (RIN): 8.2 (B.02.08)  
RNA Concentration: 120 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 8.20

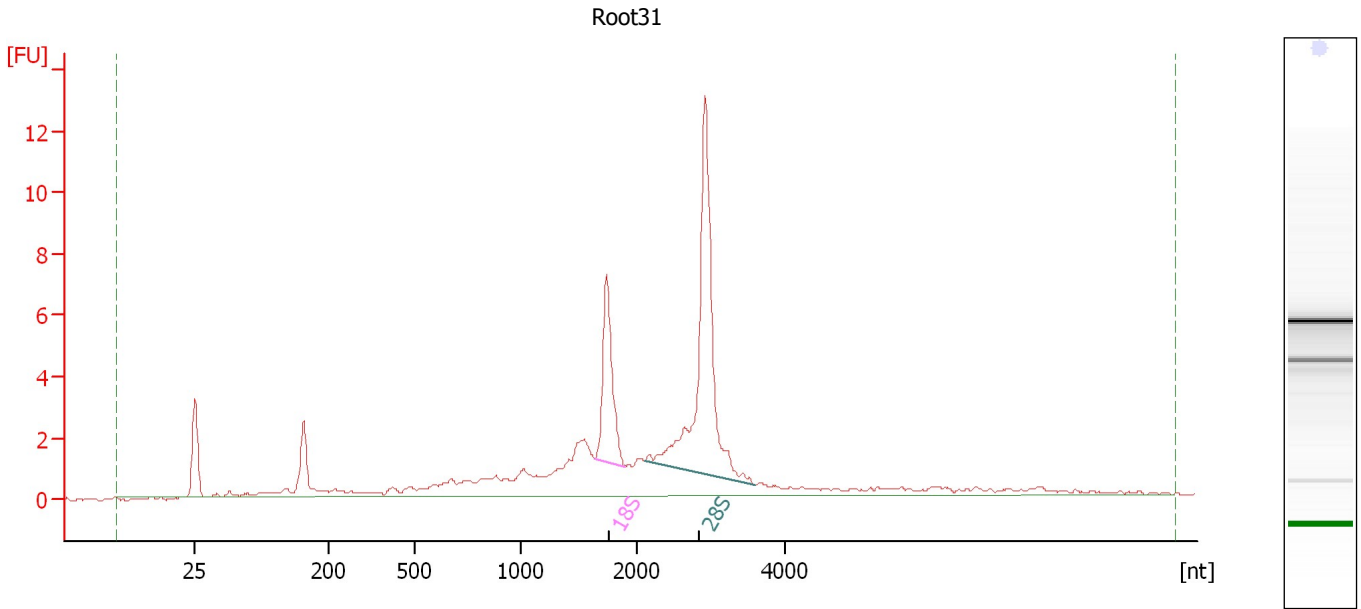
**Fragment table for sample 3 : Root23**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,907	9.3	15.1
28S	2,658	3,446	16.5	26.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Root31**

RNA Area:	70.9	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	138 ng/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]:	2.7	Result Flagging Label:	RIN: 8.20

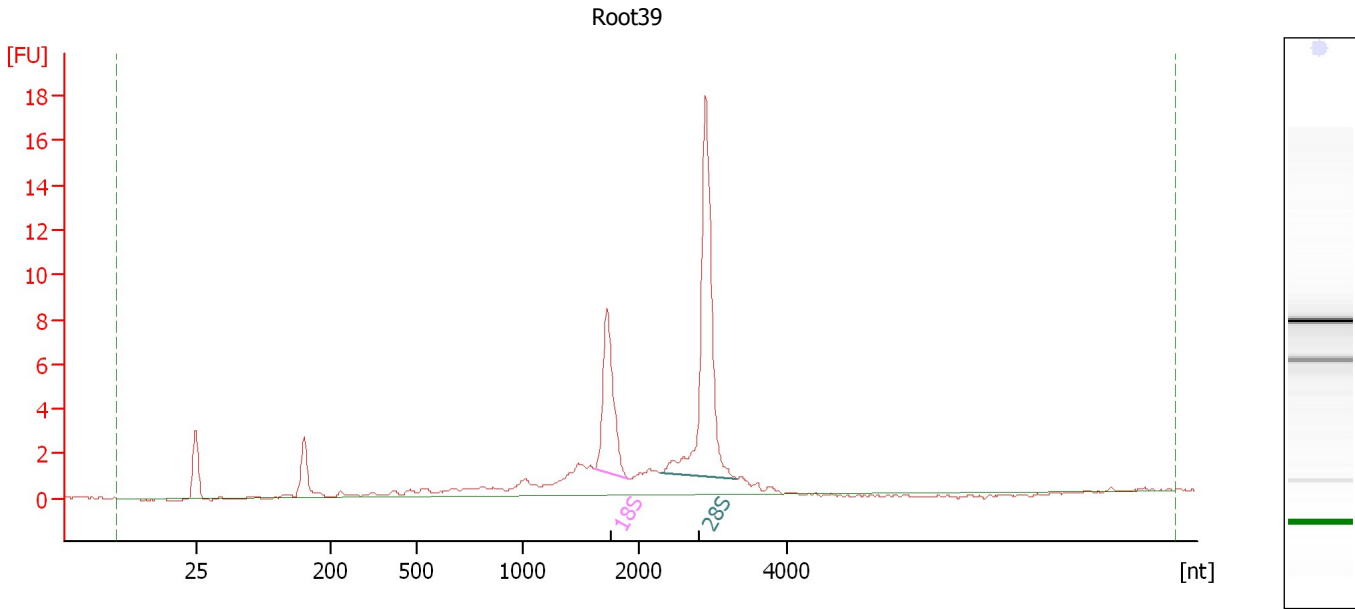
**Fragment table for sample 4 : Root31**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,893	7.4	10.4
28S	2,108	3,599	19.6	27.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Root39**

RNA Area:	60.5	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	117 ng/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]:	2.1	Result Flagging Label:	RIN: 8.40

**Fragment table for sample 5 : Root39**

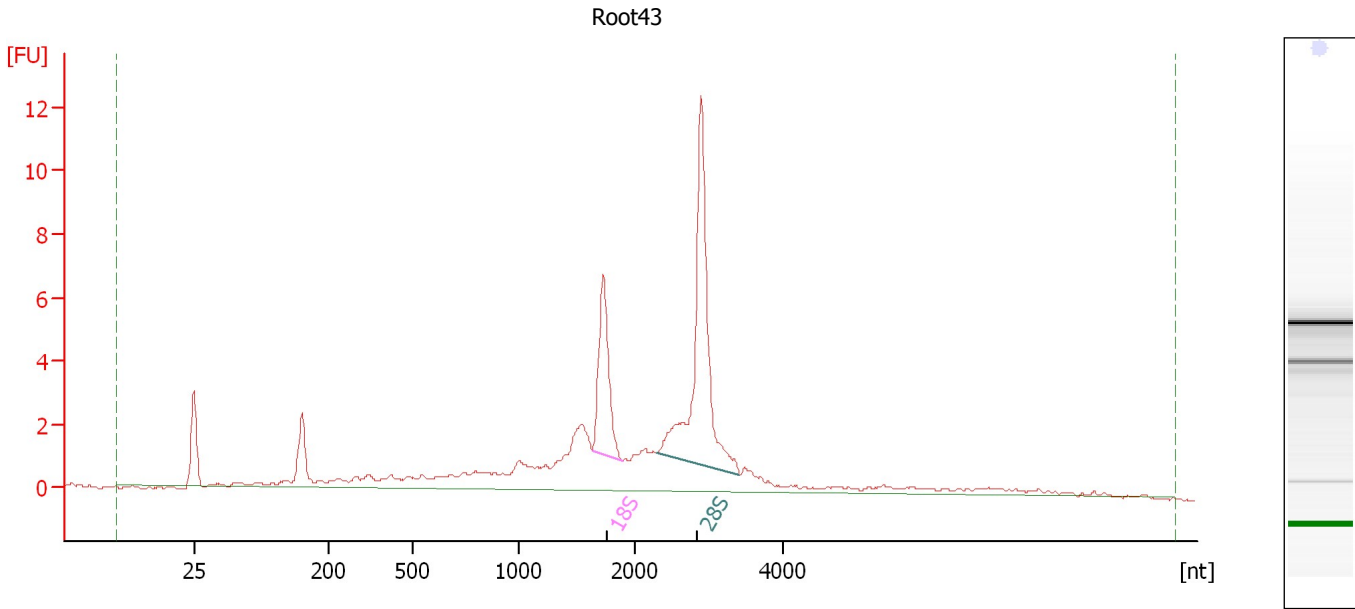
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,913	9.9	16.3
28S	2,297	3,337	21.2	35.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Root43**

RNA Area:	72.0	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	140 ng/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]:	2.5	Result Flagging Label:	RIN:8

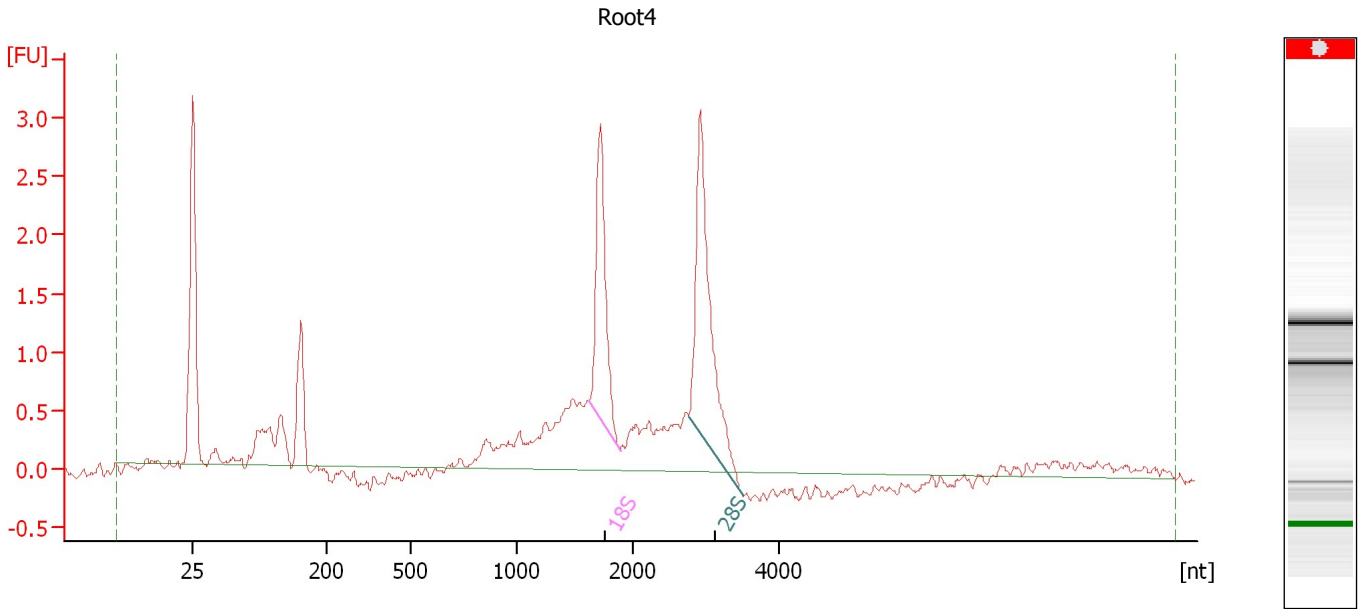
**Fragment table for sample 6 : Root43**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,633	1,892	7.1	9.8
28S	2,295	3,427	17.8	24.7

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
 Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Root4**

RNA Area:	21.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	42 ng/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]:	1.6	Result Flagging Label:	RIN N/A

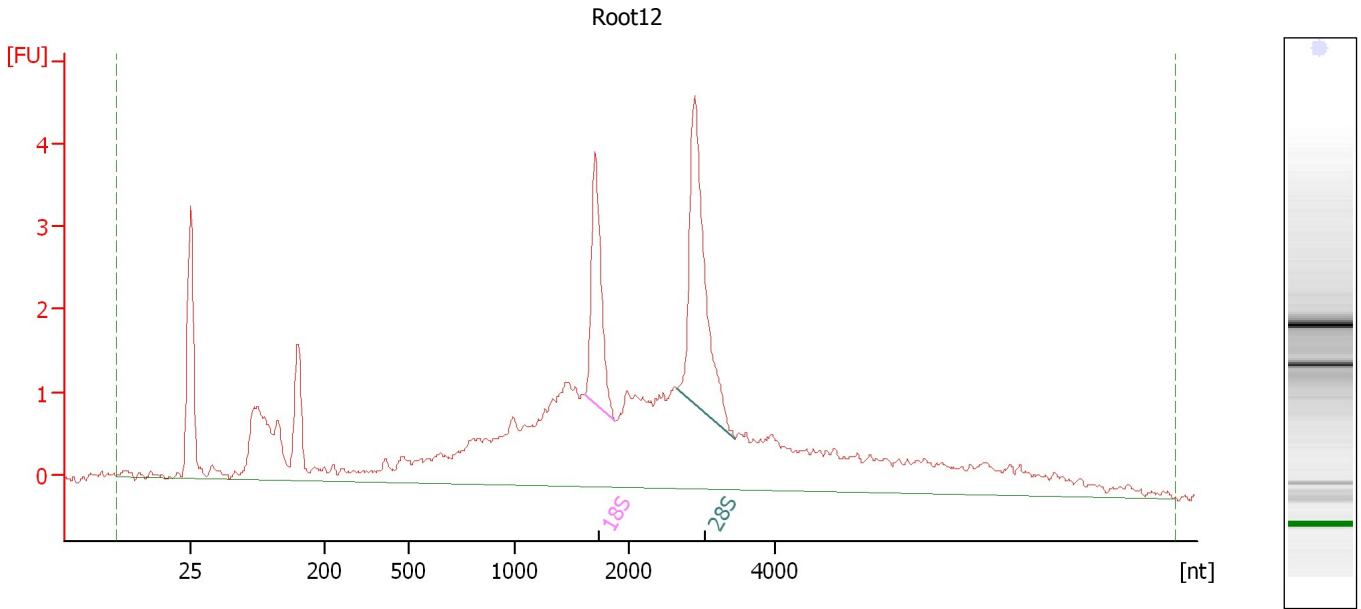
**Fragment table for sample 7 : Root4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,891	2.9	13.7
28S	2,760	3,486	4.6	21.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Root12**

RNA Area:	61.3	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	119 ng/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]:	1.7	Result Flagging Label:	RIN: 6.80

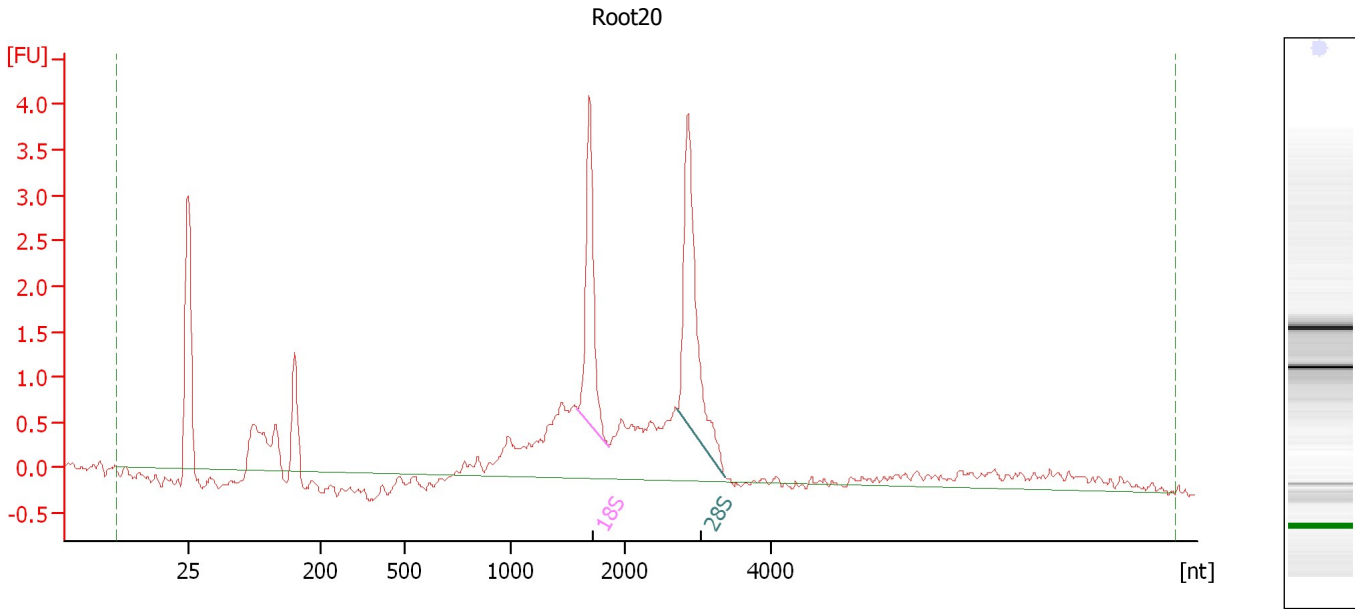
**Fragment table for sample 8 : Root12**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,879	3.8	6.2
28S	2,658	3,461	6.5	10.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Root20**

RNA Area: 28.6                      RNA Integrity Number (RIN): 7.6 (B.02.08)  
RNA Concentration: 56 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4              Result Flagging Label: RIN: 7.60

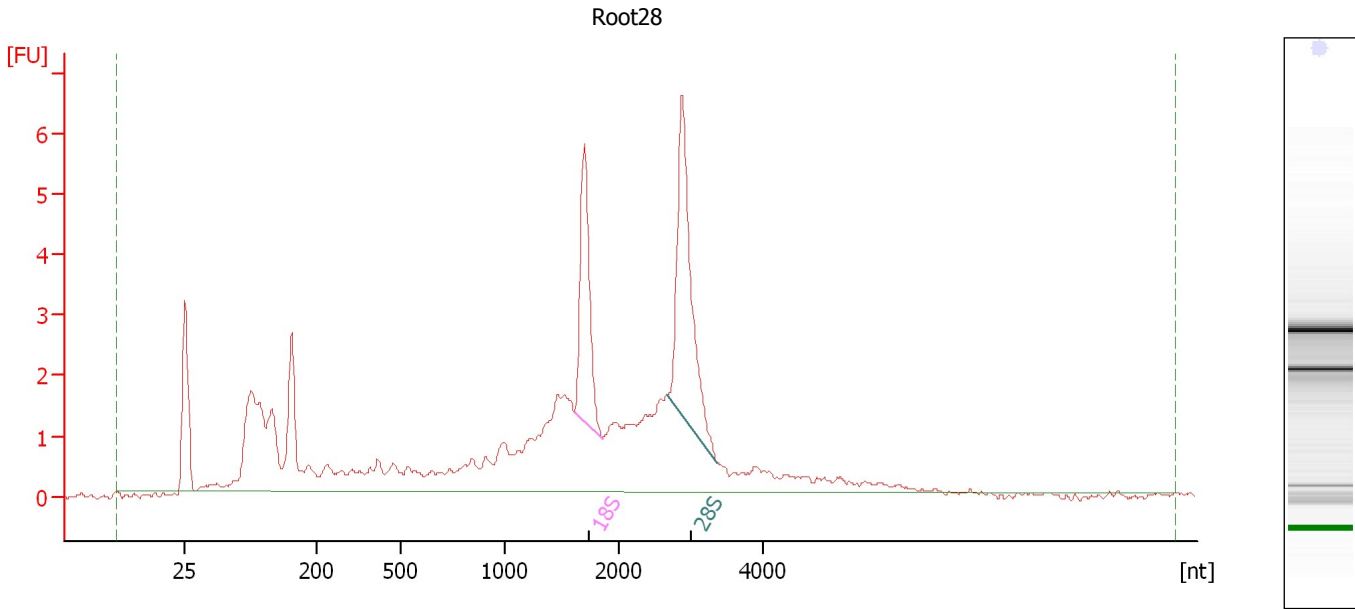
**Fragment table for sample 9 : Root20**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,858	3.6	12.6
28S	2,716	3,376	4.9	17.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Root28**

RNA Area:	68.0	RNA Integrity Number (RIN):	6.7 (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 [28s / 18s]:	1.6	Result Flagging Label:	RIN: 6.70

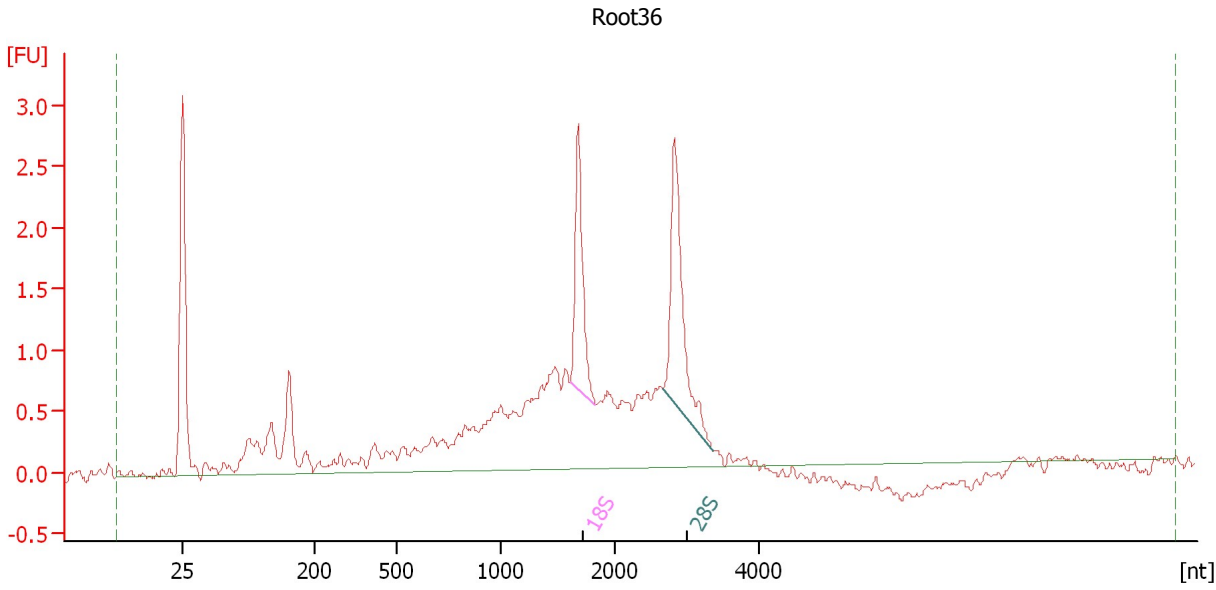
**Fragment table for sample 10 : Root28**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,609	1,854	5.3	7.9
28S	2,672	3,351	8.5	12.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
 Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Root36**

RNA Area:	27.4	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	53 ng/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]:	1.4	Result Flagging Label:	RIN: 6.10

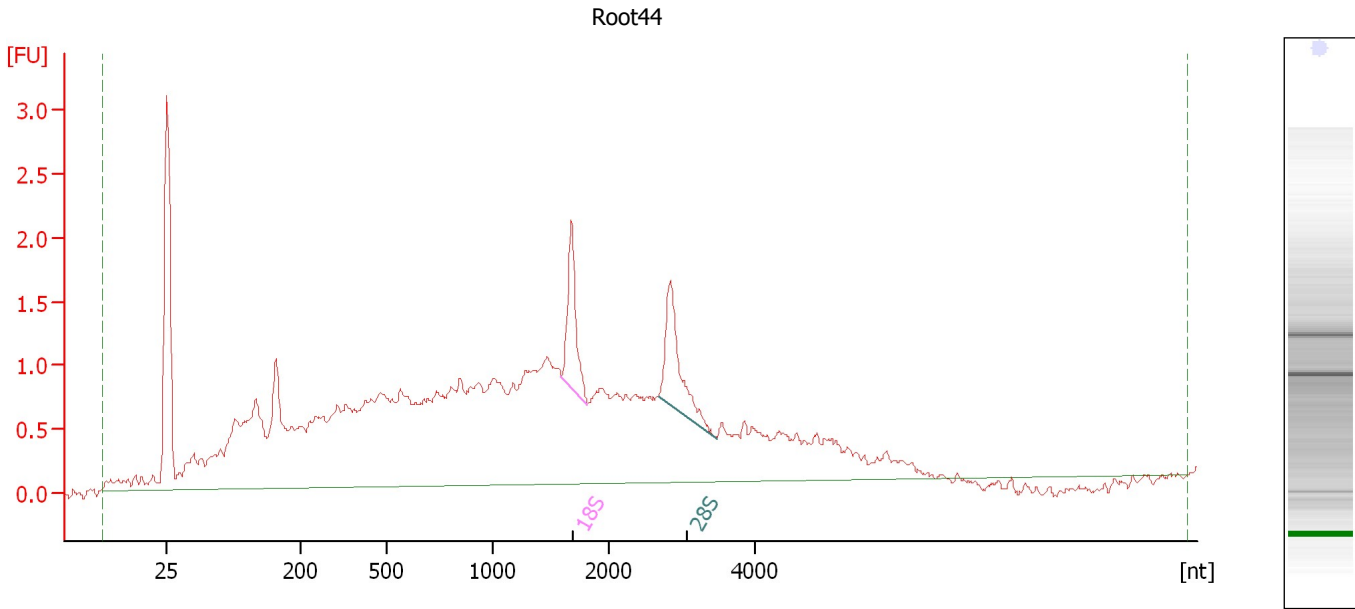
**Fragment table for sample 11 : Root36**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,832	2.1	7.8
28S	2,657	3,353	3.0	10.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Root44**

RNA Area:	52.1	RNA Integrity Number (RIN):	4.3 (B.02.08)
RNA Concentration:	101 ng/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]:	1.2	Result Flagging Label:	RIN: 4.30

**Fragment table for sample 12 : Root44**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,592	1,820	1.4	2.6
28S	2,671	3,475	1.6	3.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-09-19\2017-09-19\_002.xad

Created: 9/19/2017 3:23:22 PM  
Modified: 9/19/2017 3:47:15 PM

**Gel Image**

