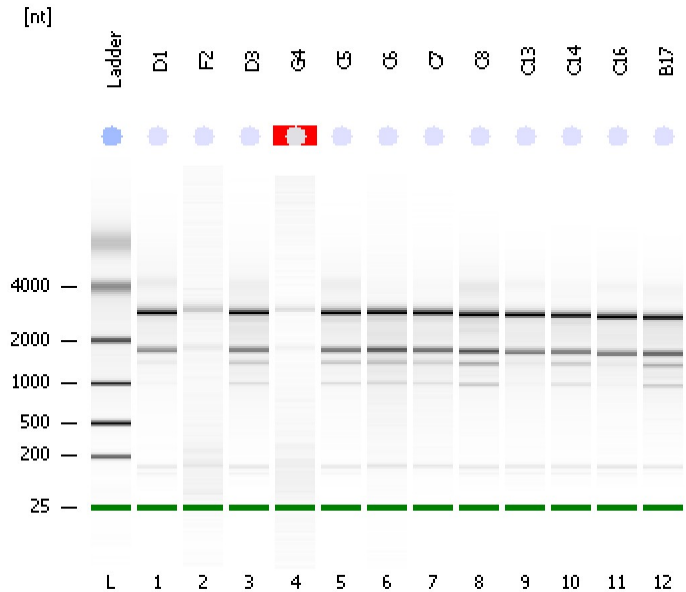


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electrophoresis File Run Summary**



Instrument Information:

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

Assay Information:

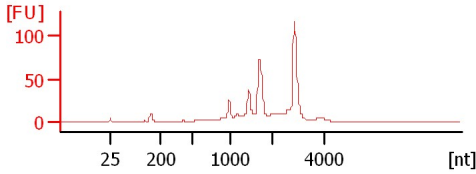
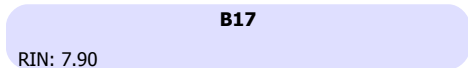
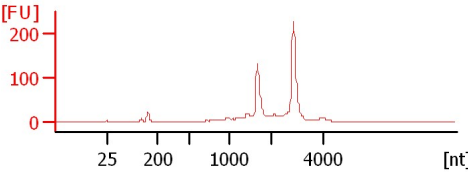
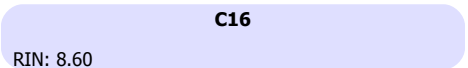
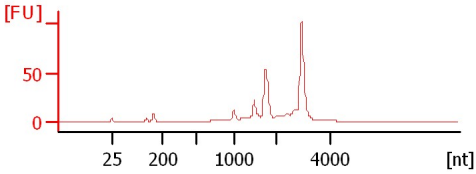
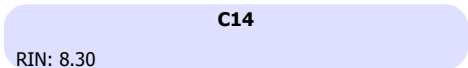
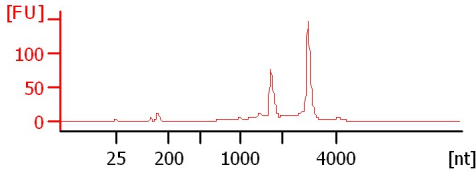
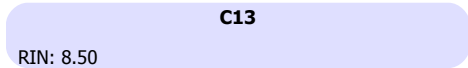
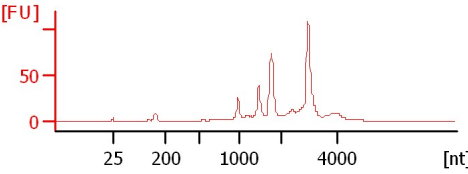
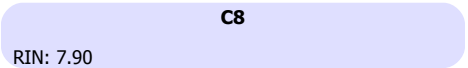
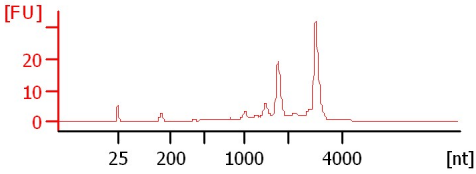
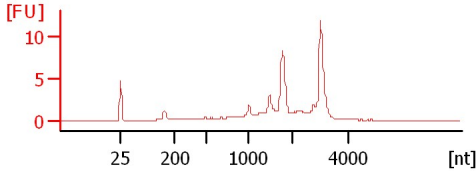
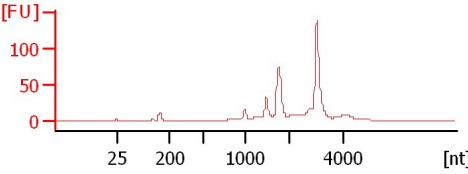
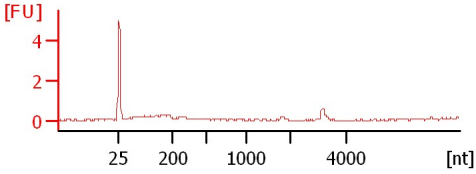
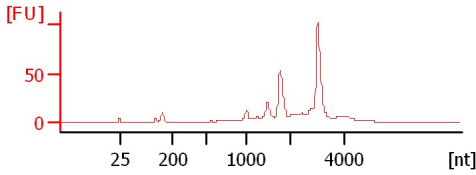
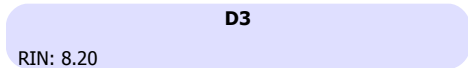
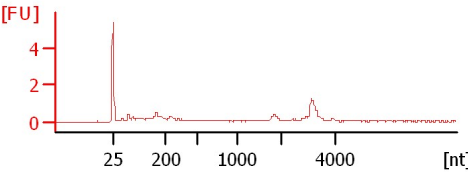
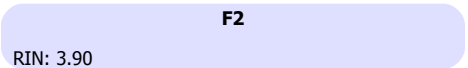
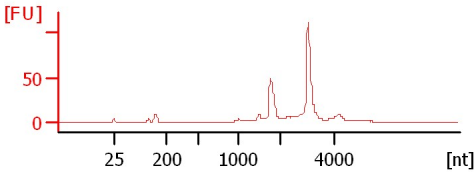
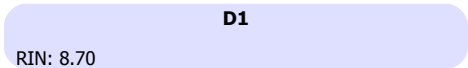
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
 Modified: 8/28/2013 9:47:56 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
D1		✓	RIN: 8.70	
F2		✓	RIN: 3.90	
D3		✓	RIN: 8.20	
G4		✓	RIN N/A	
C5		✓	RIN: 8.40	
C6		✓	RIN: 7.90	
C7		✓	RIN: 8.20	
C8		✓	RIN: 7.90	
C13		✓	RIN: 8.50	
C14		✓	RIN: 8.30	
C16		✓	RIN: 8.60	
B17		✓	RIN: 7.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**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

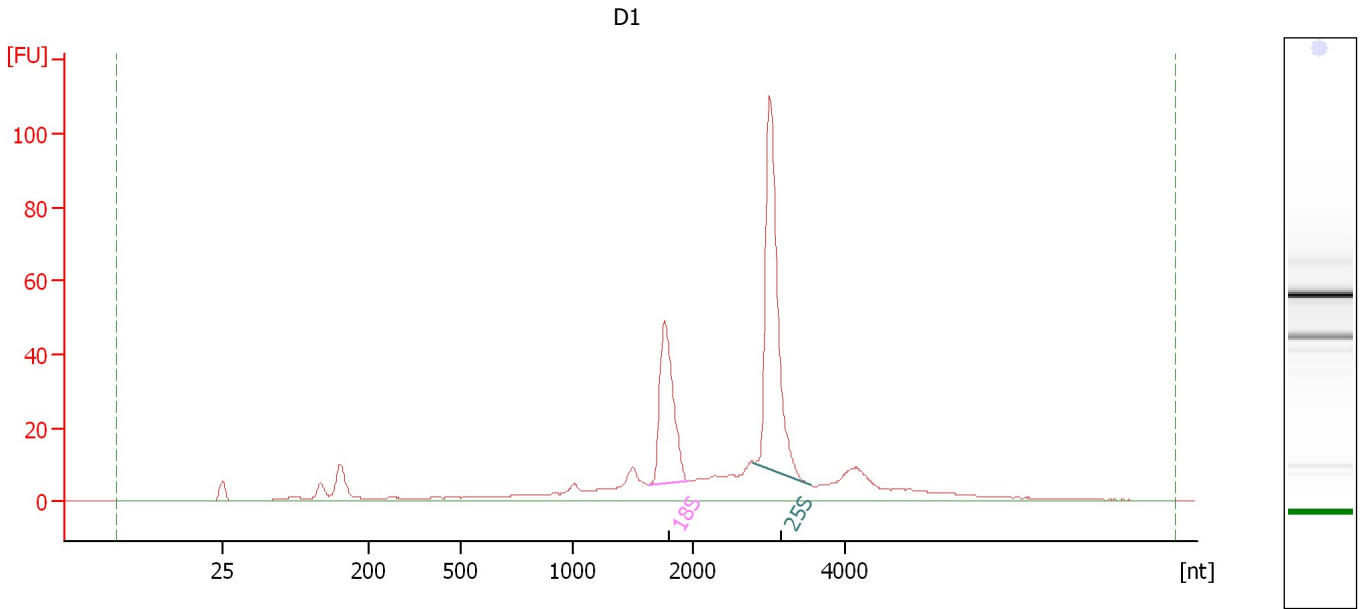
**Ladder**

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

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary**



**Overall Results for sample 1 : D1**

RNA Area: 460.9                      RNA Integrity Number (RIN): 8.7 (B.02.08)  
RNA Concentration: 462 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.8              Result Flagging Label: RIN: 8.70

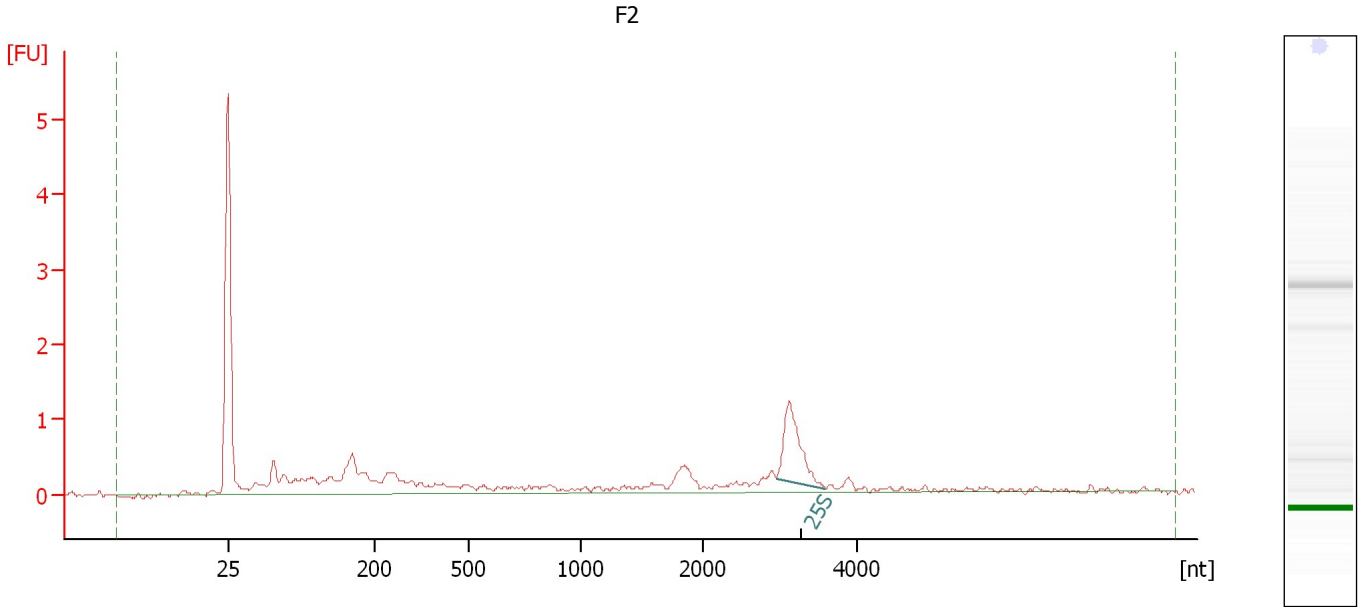
**Fragment table for sample 1 : D1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,969	70.4	15.3
25S	2,798	3,548	128.7	27.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : F2**

RNA Area:	13.5	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	14 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

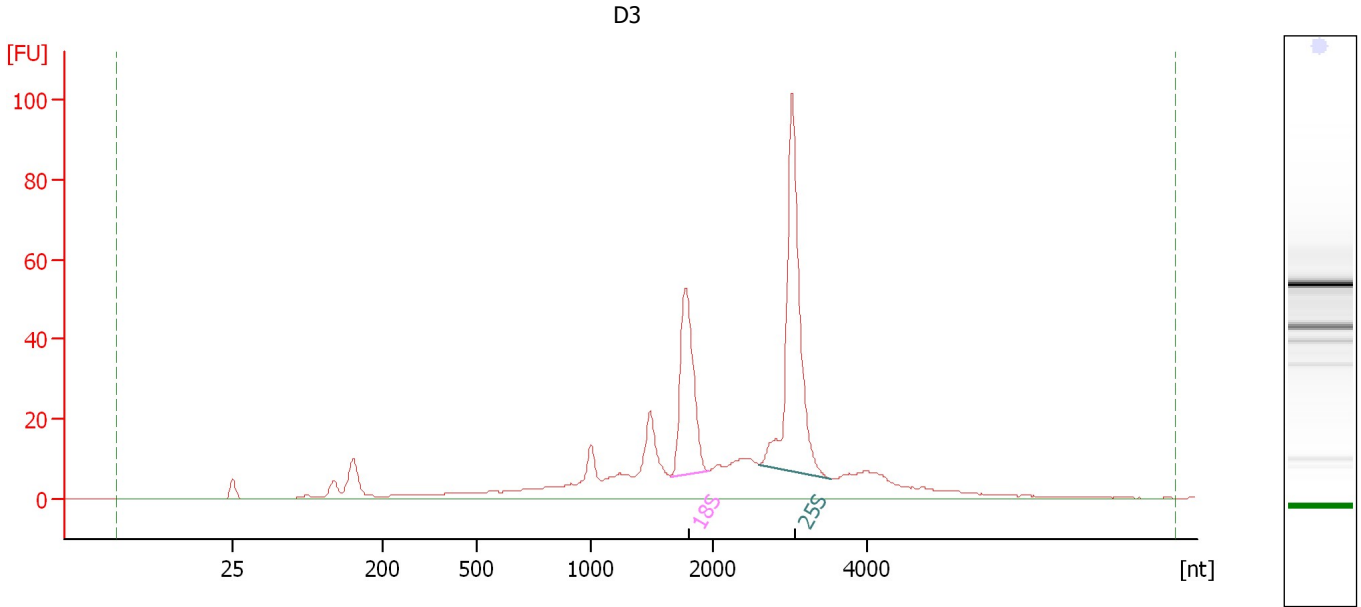
**Fragment table for sample 2 : F2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,951	3,595	1.8	13.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : D3**

RNA Area: 518.0                      RNA Integrity Number (RIN): 8.2 (B.02.08)  
RNA Concentration: 519 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.8                      Result Flagging Label: RIN: 8.20

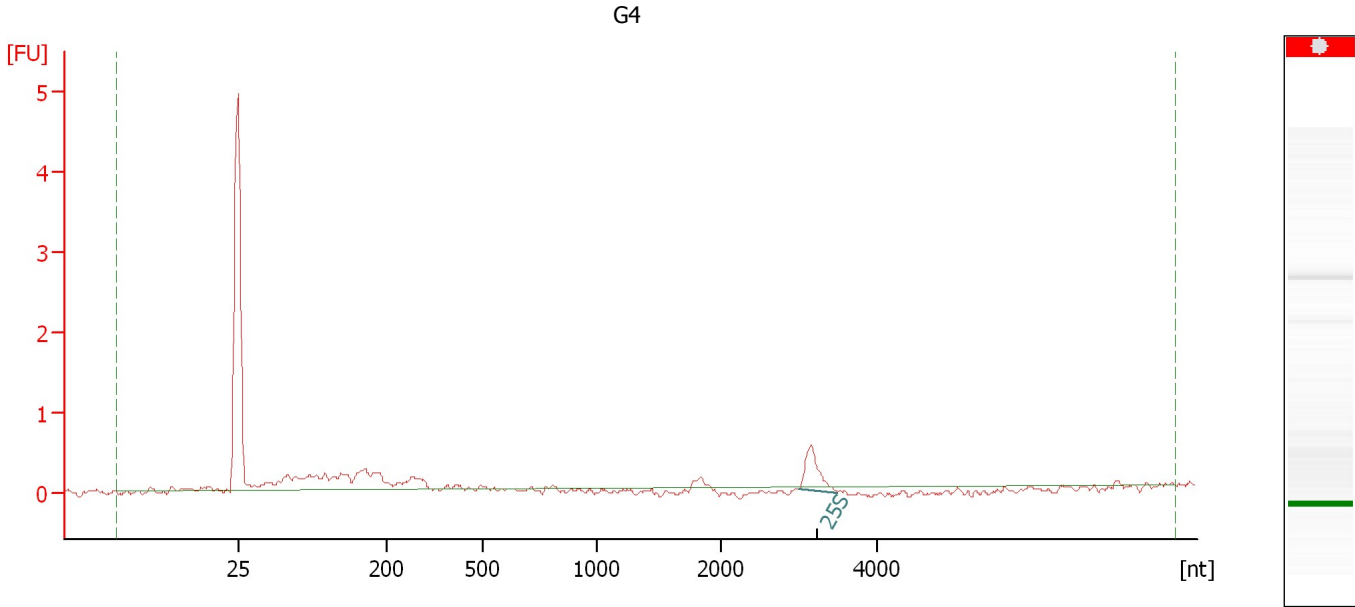
**Fragment table for sample 3 : D3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,960	72.6	14.0
25S	2,588	3,530	128.5	24.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : G4**

RNA Area:	5.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

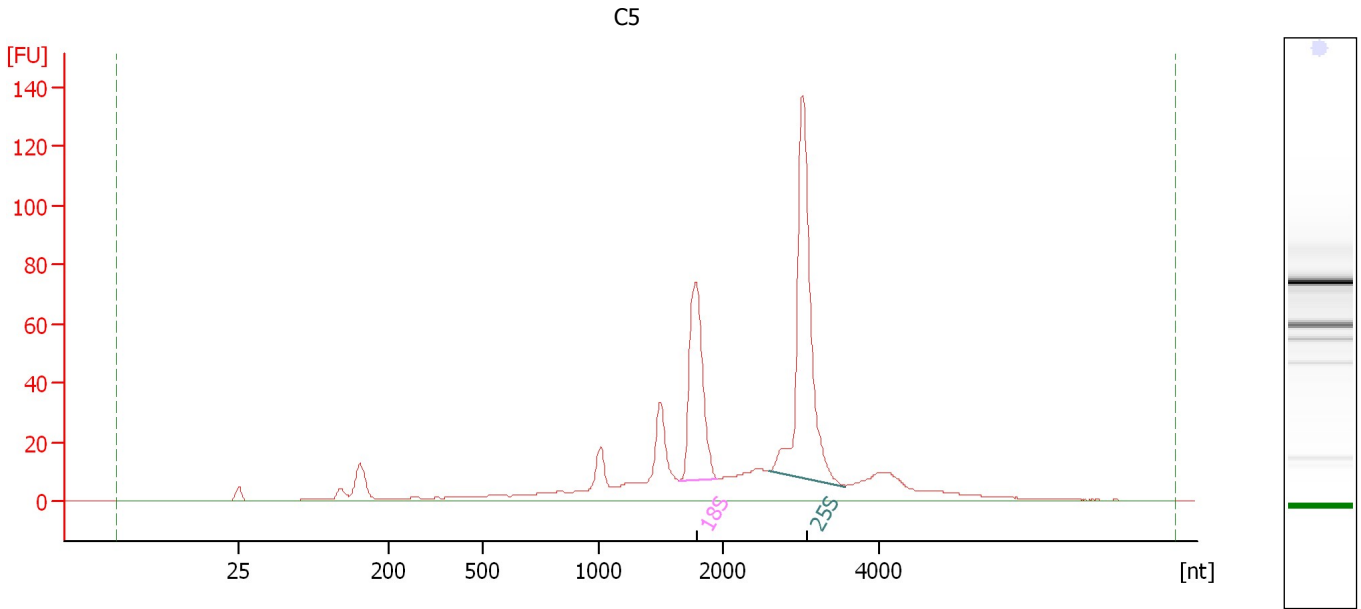
**Fragment table for sample 4 : G4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	2,988	3,482	0.8	15.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : C5**

RNA Area:	649.6	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	651 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]:	1.7	Result Flagging Label:	RIN: 8.40

**Fragment table for sample 5 : C5**

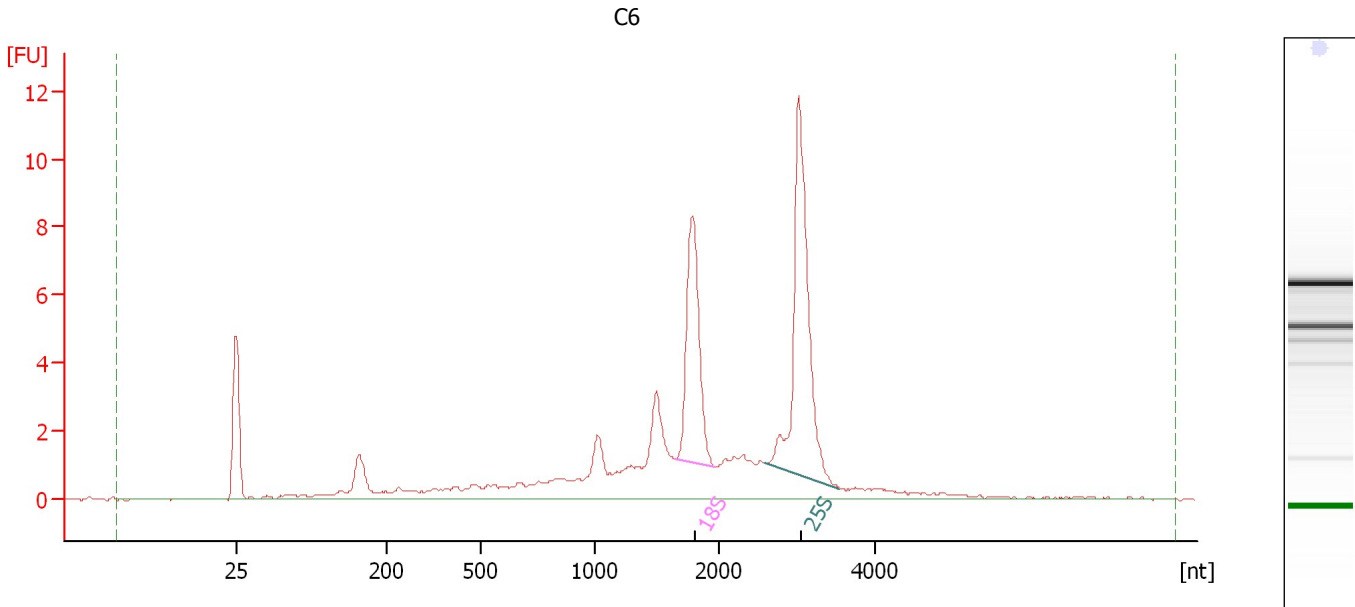
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,948	102.8	15.8
25S	2,575	3,563	178.7	27.5



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : C6**

RNA Area:	72.1	RNA Integrity Number (RIN):	7.9 (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]:	1.6	Result Flagging Label:	RIN: 7.90

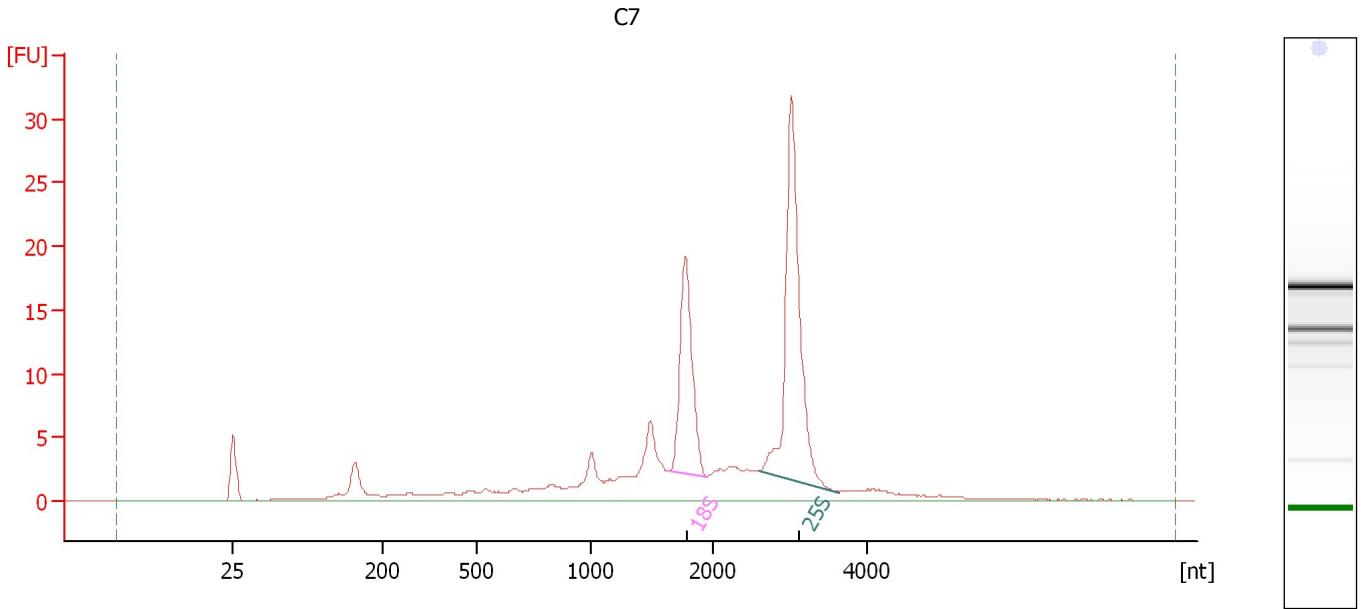
**Fragment table for sample 6 : C6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,955	10.5	14.6
25S	2,589	3,539	16.6	23.1

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : C7**

RNA Area: 157.4                      RNA Integrity Number (RIN): 8.2 (B.02.08)  
RNA Concentration: 158 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.8              Result Flagging Label: RIN: 8.20

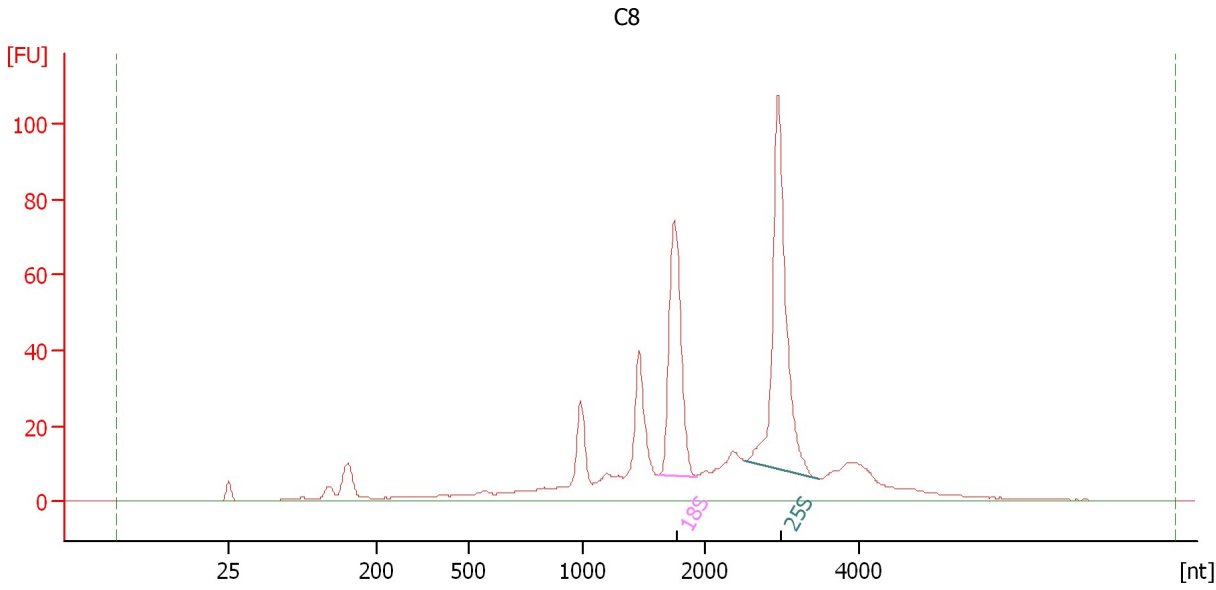
**Fragment table for sample 7 : C7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	1,943	24.7	15.7
25S	2,574	3,627	43.8	27.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : C8**

RNA Area: 622.7                      RNA Integrity Number (RIN): 7.9 (B.02.08)  
RNA Concentration: 624 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5                      Result Flagging Label: RIN: 7.90

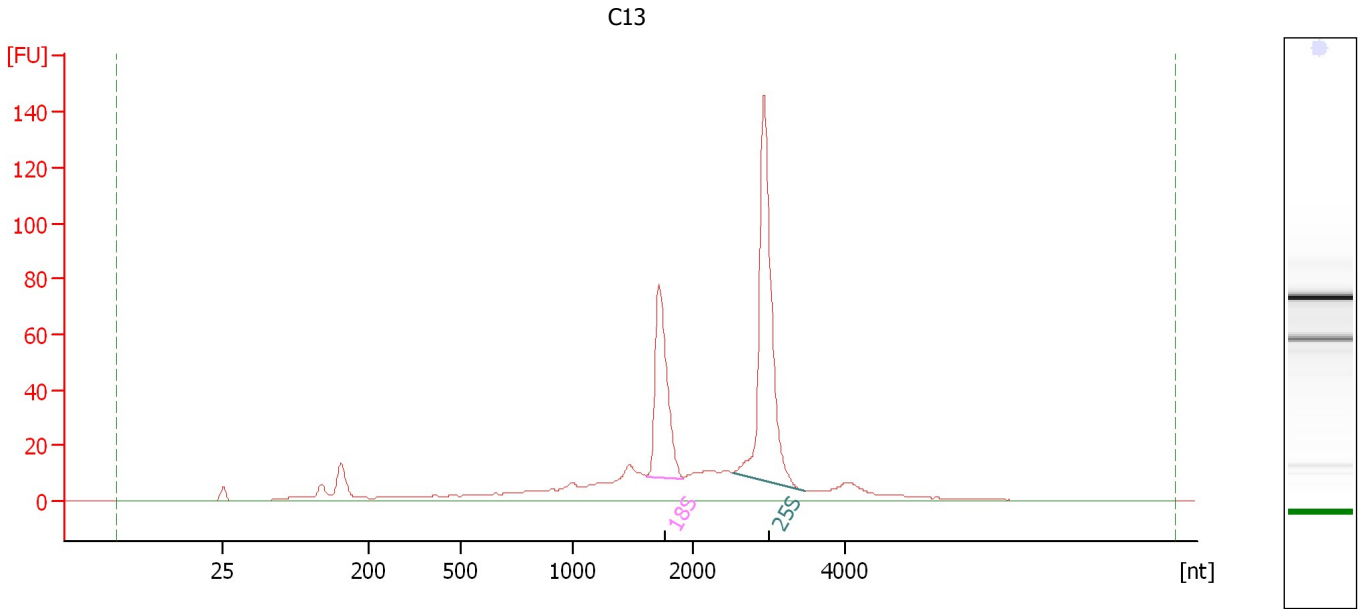
**Fragment table for sample 8 : C8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	1,922	95.6	15.3
25S	2,518	3,481	142.4	22.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : C13**

RNA Area: 629.8                      RNA Integrity Number (RIN): 8.5 (B.02.08)  
RNA Concentration: 631 ng/μl              Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.9              Result Flagging Label: RIN: 8.50

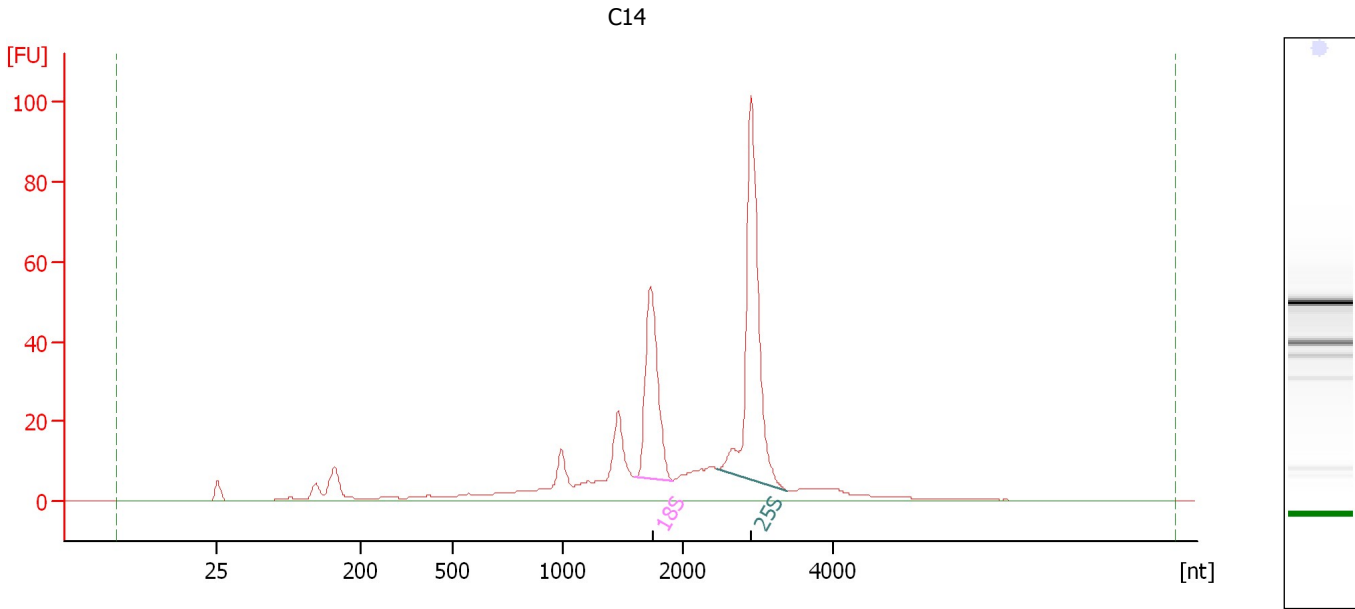
**Fragment table for sample 9 : C13**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	1,916	96.7	15.3
25S	2,530	3,463	185.2	29.4

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : C14**

RNA Area: 457.7 RNA Integrity Number (RIN): 8.3 (B.02.08)  
RNA Concentration: 458 ng/μl Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 8.30

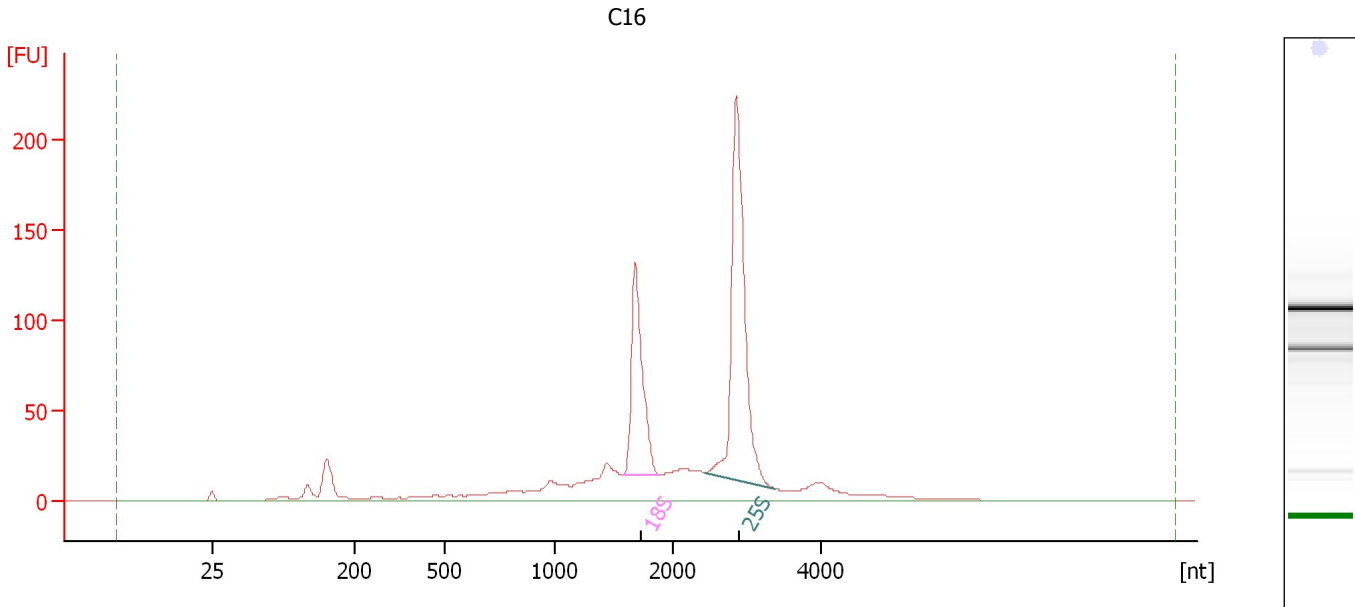
**Fragment table for sample 10 : C14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	1,919	72.8	15.9
25S	2,457	3,385	127.4	27.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : C16**

RNA Area:	997.7	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	999 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]:	1.9	Result Flagging Label:	RIN: 8.60

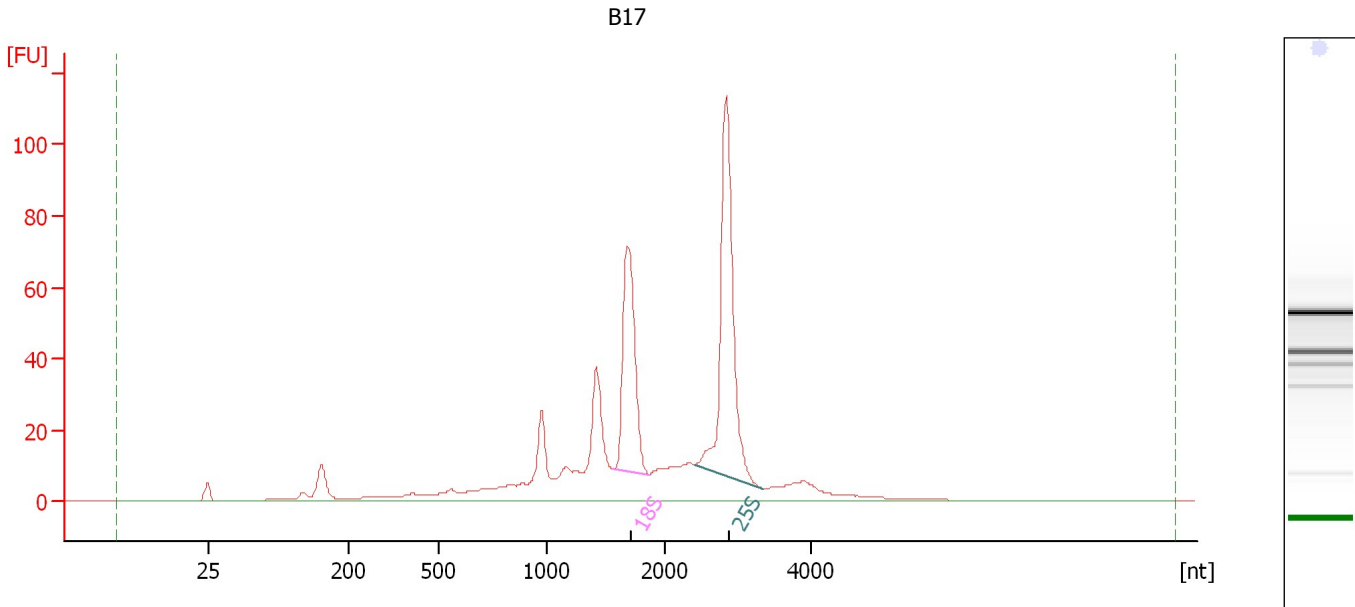
**Fragment table for sample 11 : C16**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	1,887	159.7	16.0
25S	2,425	3,378	304.0	30.5

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-28\2013-08-28\_001.xad

Created: 8/28/2013 9:24:06 AM  
 Modified: 8/28/2013 9:47:56 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : B17**

RNA Area:	606.7	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	608 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]:	1.5	Result Flagging Label:	RIN: 7.90

**Fragment table for sample 12 : B17**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,564	1,855	93.6	15.4
25S	2,394	3,340	144.8	23.9