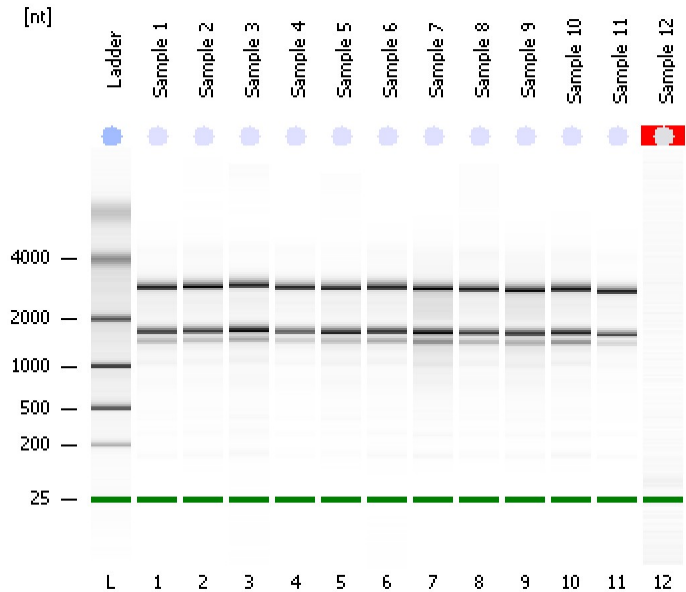


Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 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\Plant RNA Nano.xsy

Assay Class: Plant RNA Nano

Version: 1.3

Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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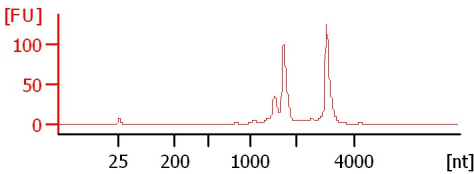
Chip Information:

Chip Lot #:

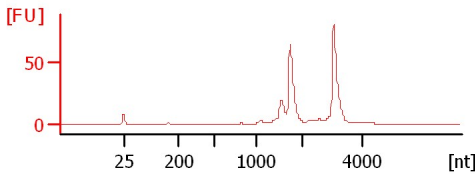
Reagent Kit Lot #:

Chip Comments:

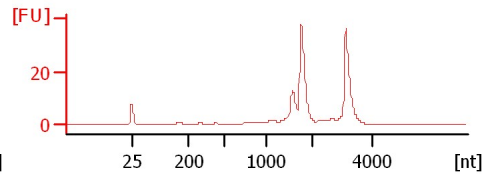
Sample 1  
RIN: 8.30



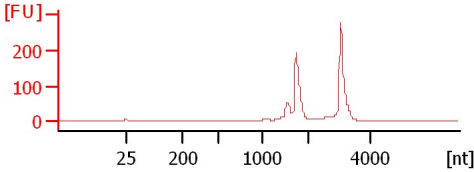
Sample 2  
RIN: 8.60



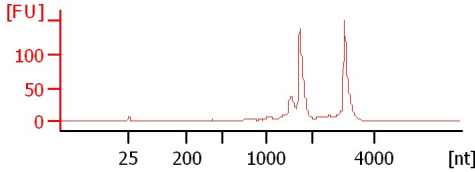
Sample 3  
RIN: 8



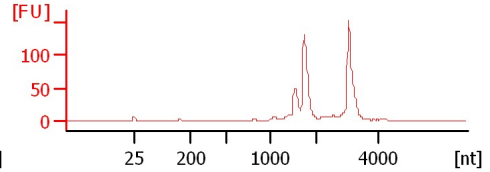
Sample 4  
RIN: 8.90



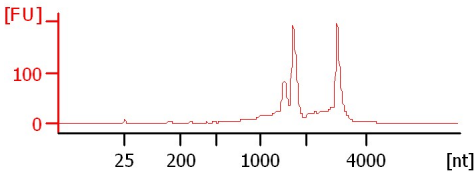
Sample 5  
RIN: 8.10



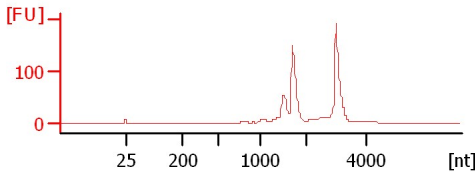
Sample 6  
RIN: 8.30



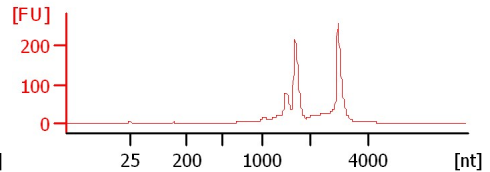
Sample 7  
RIN: 7.10



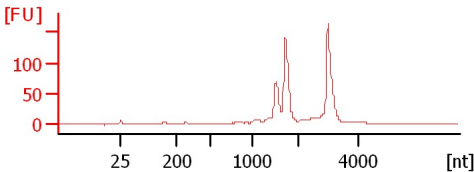
Sample 8  
RIN: 8.40



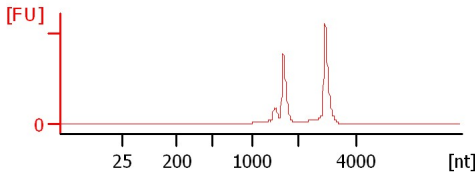
Sample 9  
RIN: 7.80



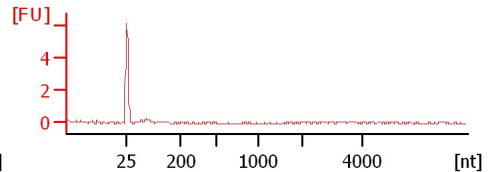
Sample 10  
RIN: 7.90



Sample 11  
RIN: 9



Sample 12  
RIN N/A



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
 Modified: 2/29/2016 4:10:43 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.30	
Sample 2		✓	RIN: 8.60	
Sample 3		✓	RIN:8	
Sample 4		✓	RIN: 8.90	
Sample 5		✓	RIN: 8.10	
Sample 6		✓	RIN: 8.30	
Sample 7		✓	RIN: 7.10	
Sample 8		✓	RIN: 8.40	
Sample 9		✓	RIN: 7.80	
Sample 10		✓	RIN: 7.90	
Sample 11		✓	RIN:9	
Sample 12		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

## 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

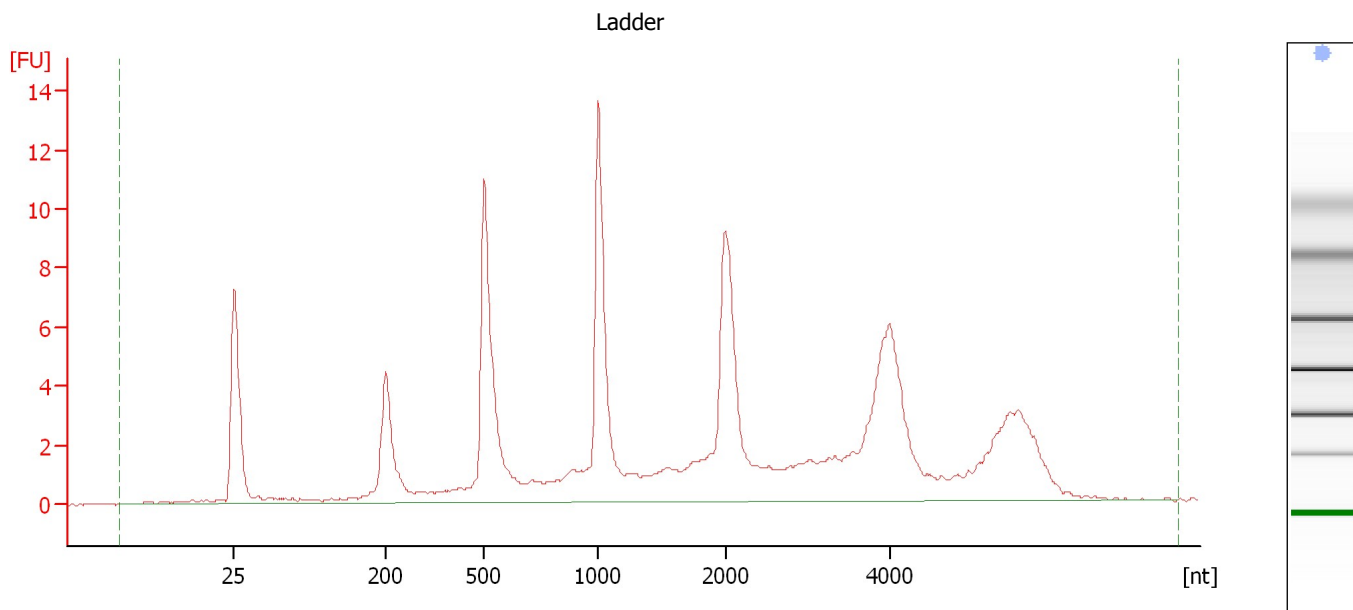
### Ladder

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\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary**



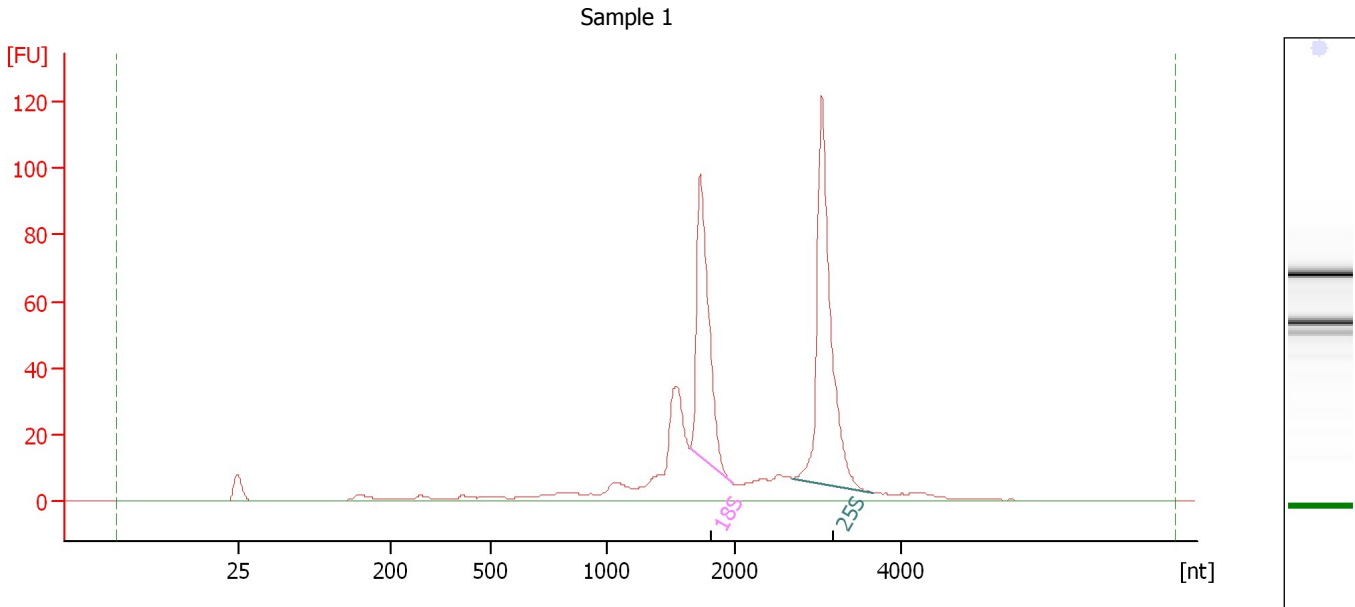
**Overall Results for Ladder**

RNA Area:	133.5	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: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

RNA Area:	541.4	RNA Integrity Number (RIN):	8.3 (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]:	1.3	Result Flagging Label:	RIN: 8.30

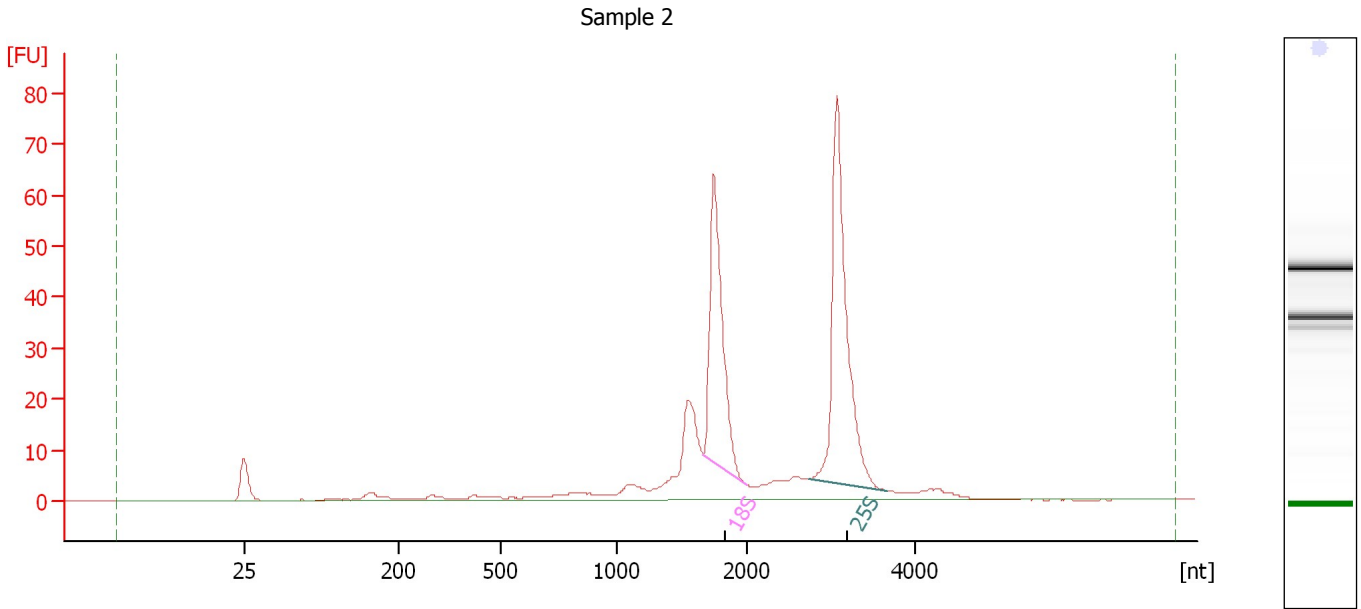
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	1,978	120.3	22.2
25S	2,703	3,671	157.0	29.0

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area:	337.6	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	379 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]:	1.3	Result Flagging Label:	RIN: 8.60

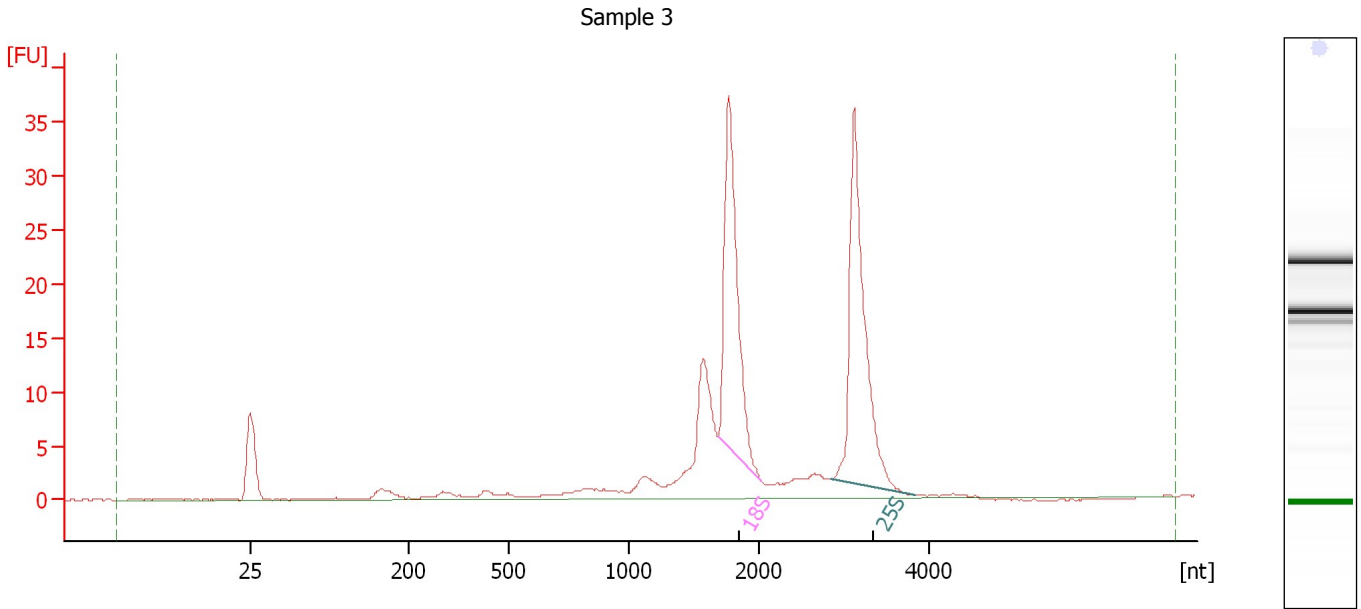
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	1,990	79.5	23.5
25S	2,738	3,657	106.4	31.5

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area:	177.0	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	199 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]:	1.1	Result Flagging Label:	RIN:8

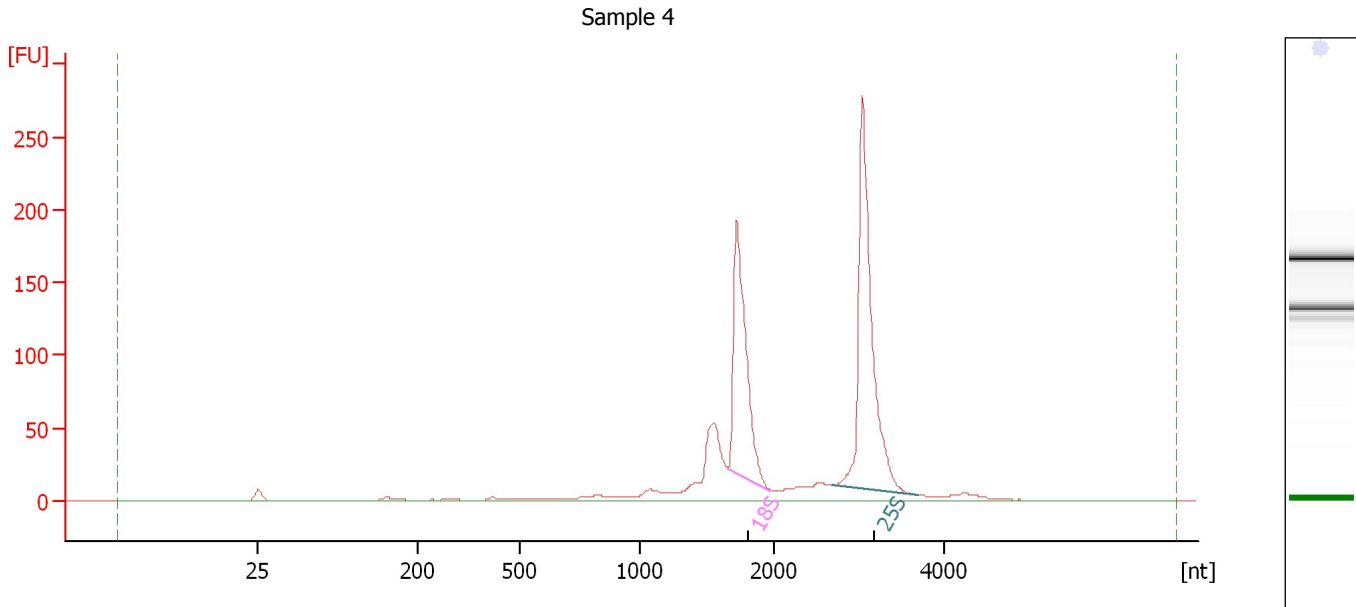
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	2,016	46.3	26.2
25S	2,836	3,833	50.1	28.3

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 4**

RNA Area:	973.2	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	1,093 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]:	1.4	Result Flagging Label:	RIN: 8.90

**Fragment table for sample 4 : Sample 4**

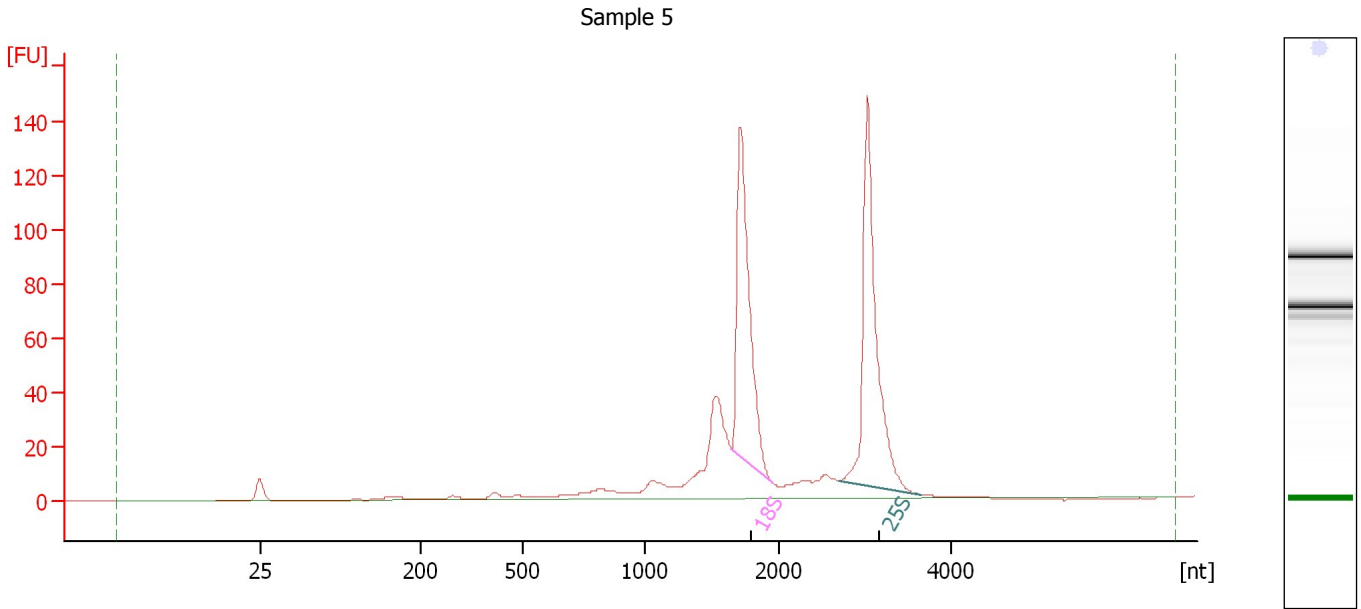
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,661	1,982	237.7	24.4
25S	2,695	3,680	339.7	34.9



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 5**

RNA Area:	610.5	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	686 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]:	1.1	Result Flagging Label:	RIN: 8.10

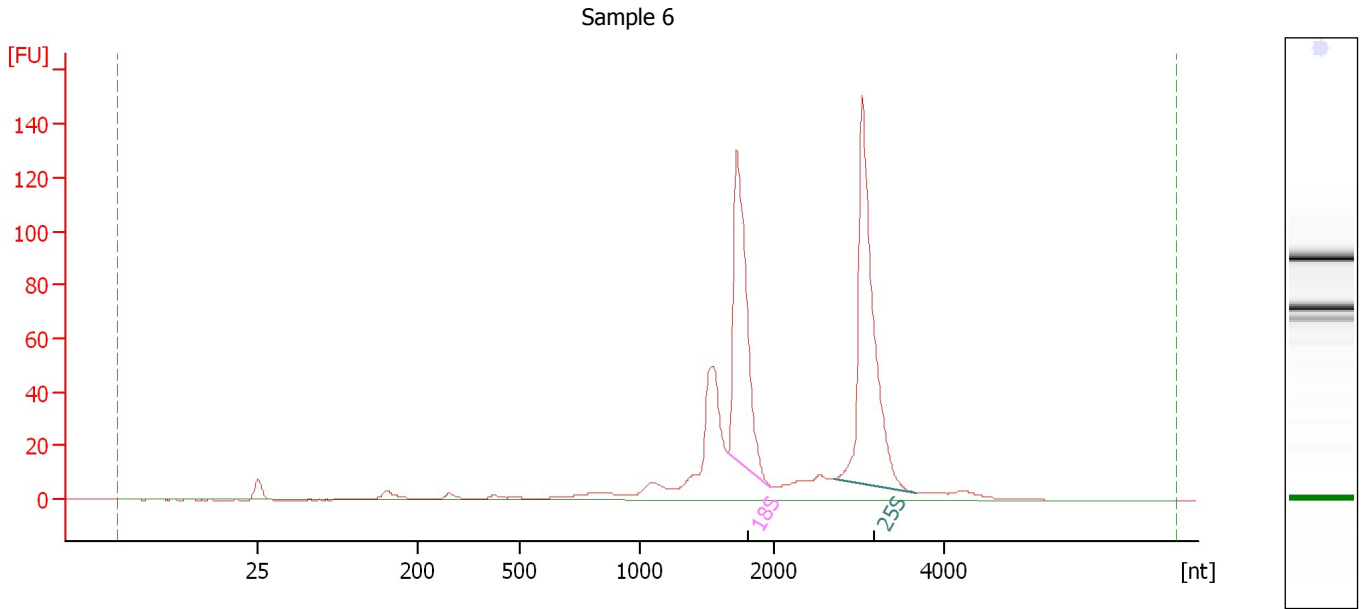
**Fragment table for sample 5 : Sample 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,960	162.5	26.6
25S	2,694	3,649	178.2	29.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 6**

RNA Area:	687.4	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	772 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]:	1.2	Result Flagging Label:	RIN: 8.30

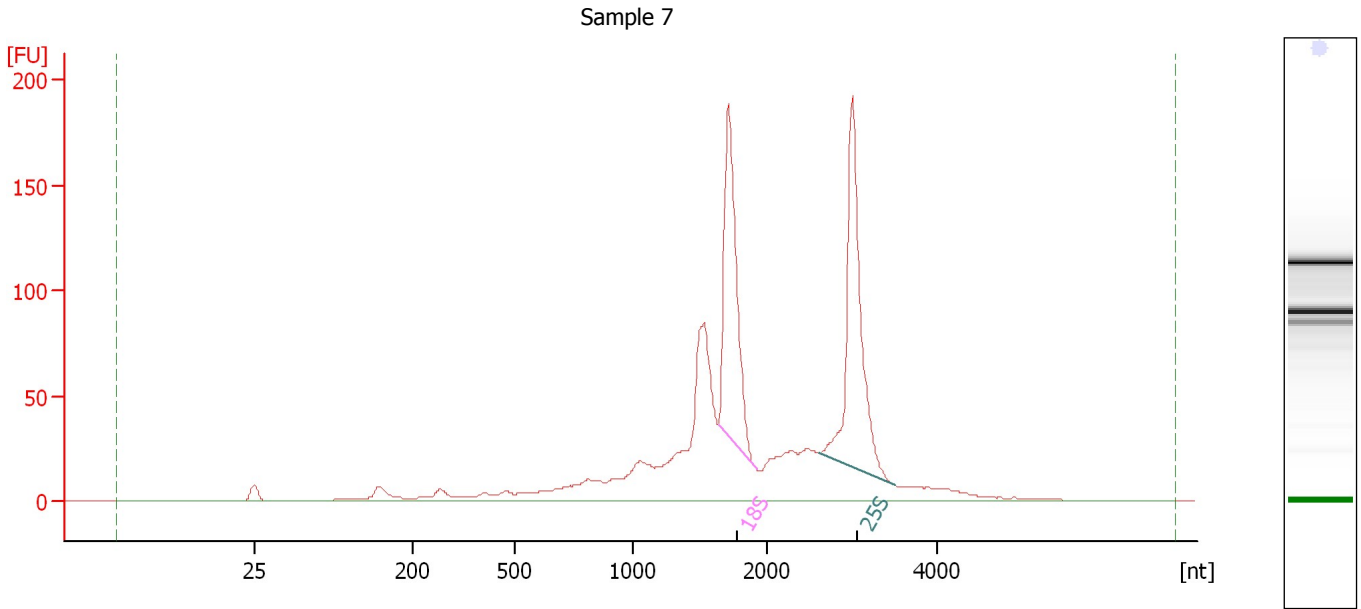
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,661	1,982	167.7	24.4
25S	2,708	3,668	205.6	29.9

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 7**

RNA Area: 1,248.8                      RNA Integrity Number (RIN): 7.1 (B.02.08)  
RNA Concentration: 1,403 ng/μl                      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.1                      Result Flagging Label: RIN: 7.10

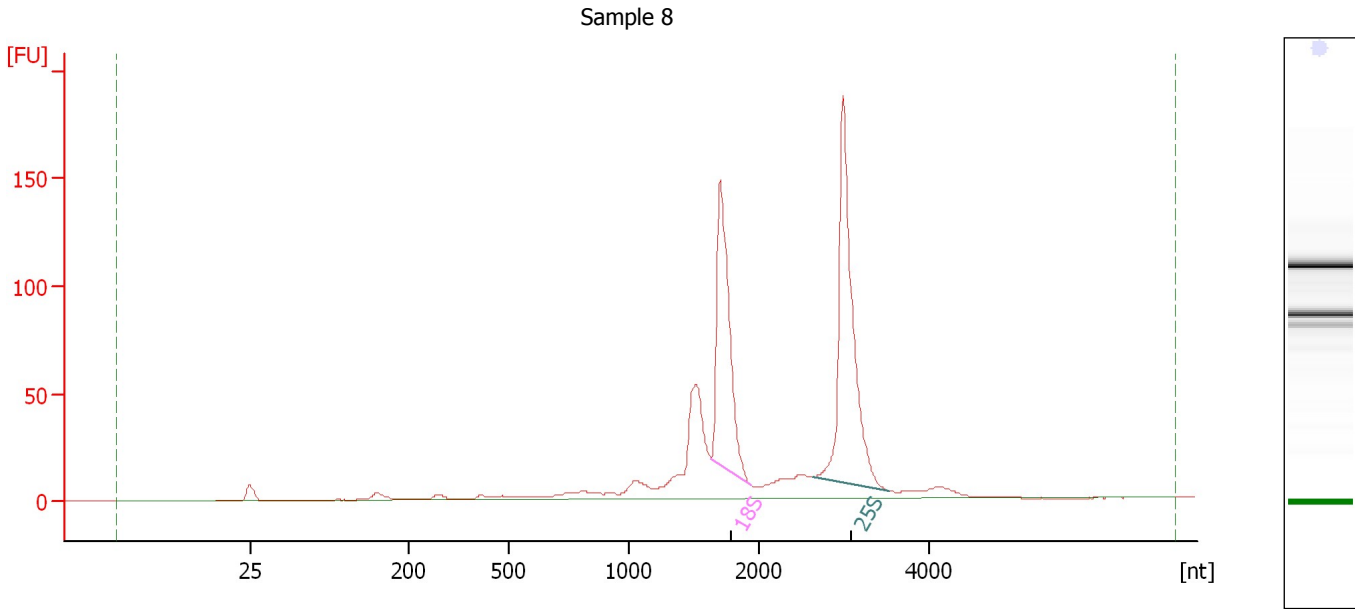
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	1,923	216.4	17.3
25S	2,621	3,524	232.2	18.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 8**

RNA Area:	783.5	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	880 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]:	1.3	Result Flagging Label:	RIN: 8.40

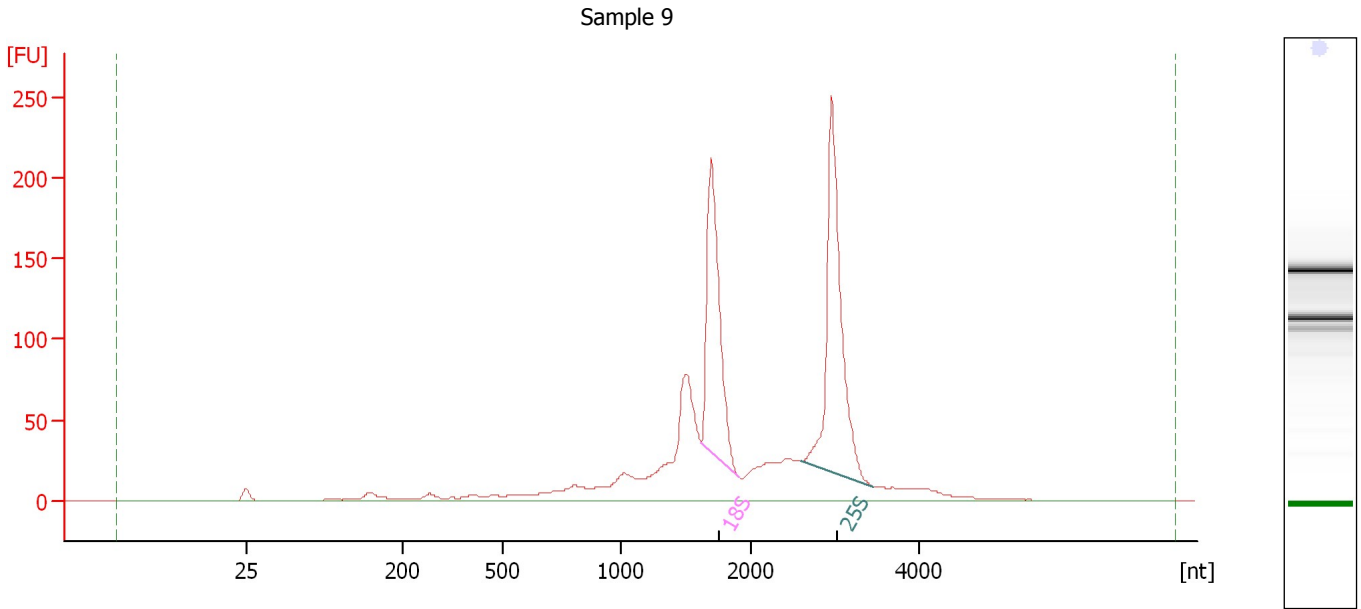
**Fragment table for sample 8 : Sample 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,629	1,937	184.5	23.6
25S	2,635	3,530	244.3	31.2

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 9**

RNA Area:	1,360.9	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	1,529 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]:	1.3	Result Flagging Label:	RIN: 7.80

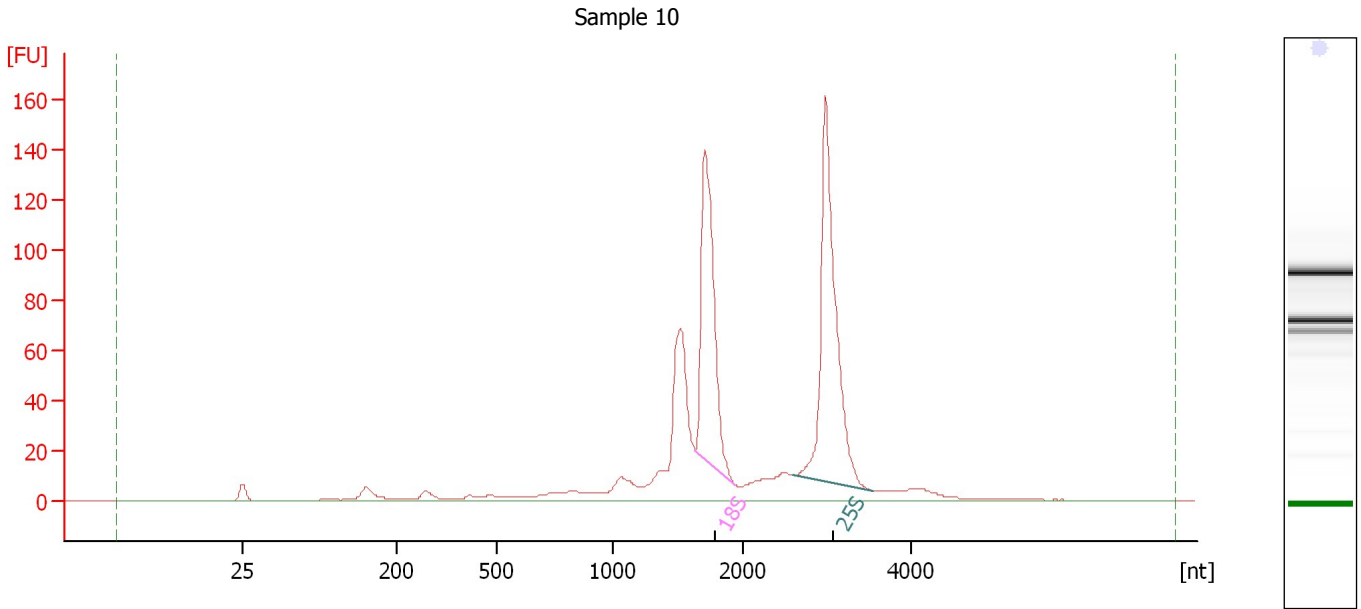
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	1,902	253.9	18.7
25S	2,598	3,449	322.7	23.7

Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
 Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 10**

RNA Area:	821.0	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	922 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]:	1.3	Result Flagging Label:	RIN: 7.90

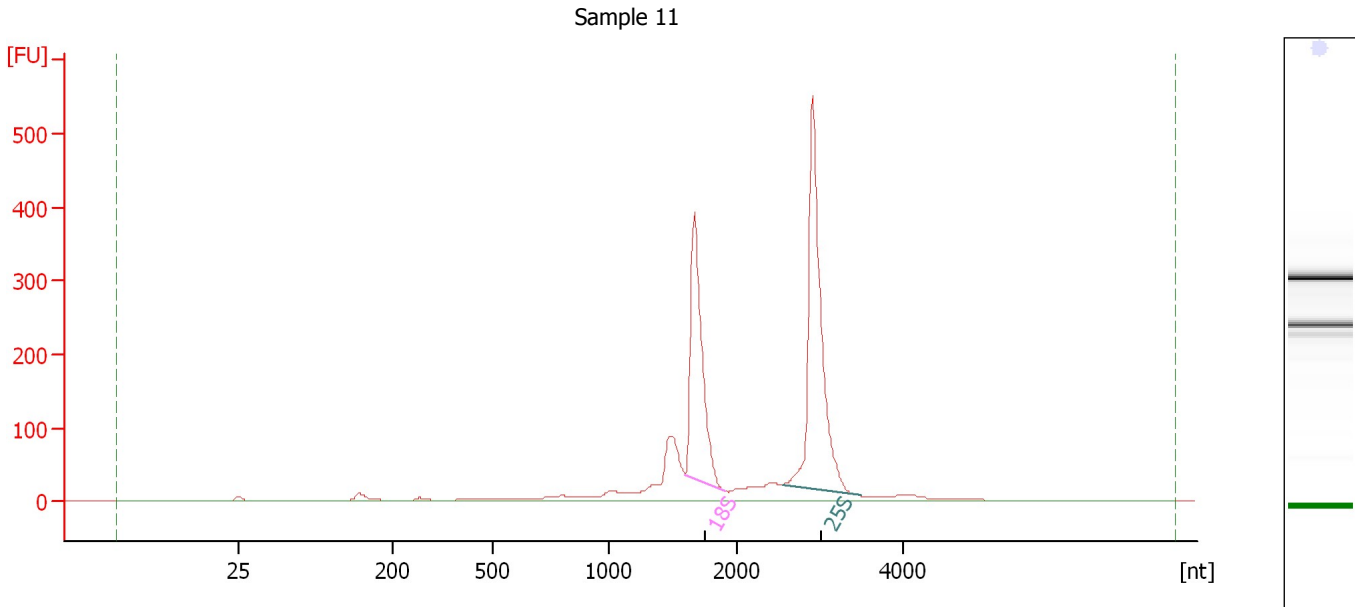
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,931	180.6	22.0
25S	2,598	3,547	228.3	27.8

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sample 11**

RNA Area: 1,874.0      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 2,105 ng/μl      Result Flagging Color:   
rRNA Ratio [25s / 18s]: 1.5      Result Flagging Label: RIN:9

**Fragment table for sample 11 : Sample 11**

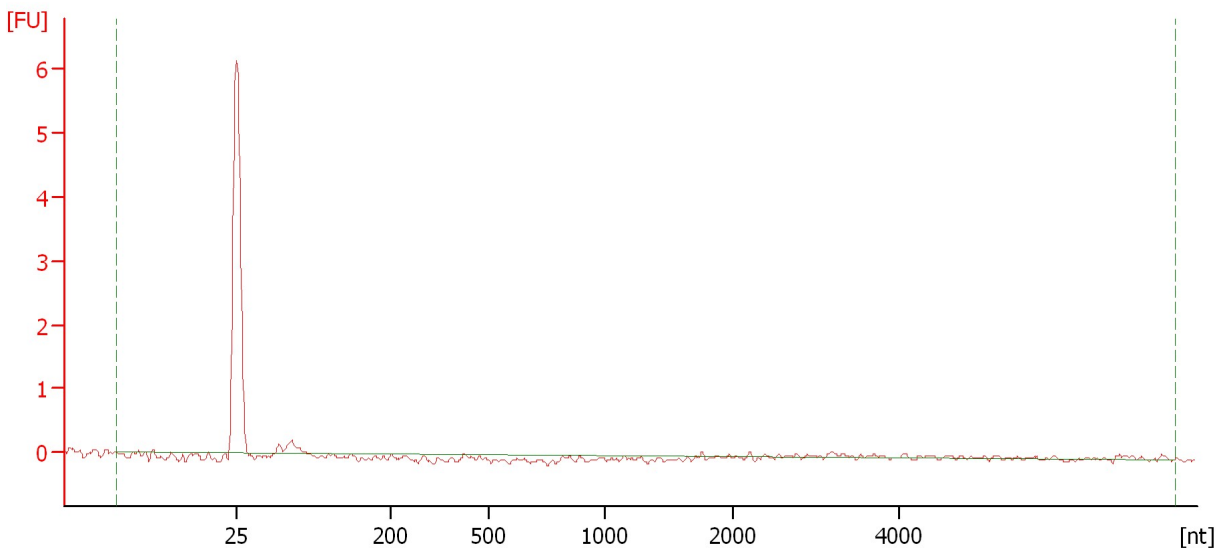
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	1,904	459.7	24.5
25S	2,561	3,489	685.0	36.6

Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Electropherogram Summary Continued ...**

Sample 12



**Overall Results for sample 12 : Sample 12**

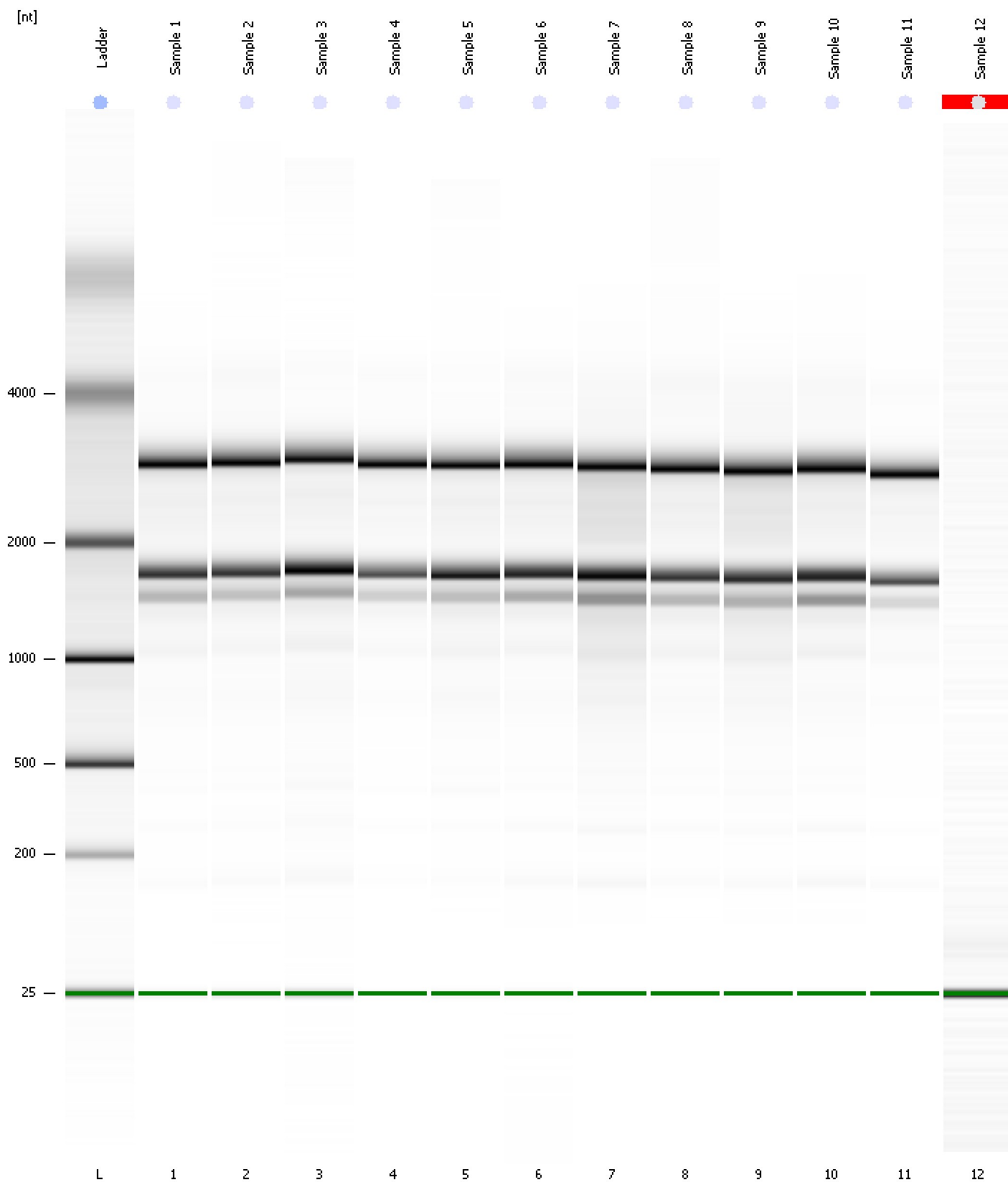
RNA Area:	1.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A



Assay Class: Plant RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
Modified: 2/29/2016 4:10:43 PM

**Gel Image**



Assay Class: Plant RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-29\2016-02-29\_001.xad

Created: 2/29/2016 3:46:55 PM  
 Modified: 2/29/2016 4:10:43 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		2/29/2016 4:10:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-02-29\2016-02-29_001.xad)		Instrument	Run		2/29/2016 3:47:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/29/2016 3:47:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/29/2016 3:47:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/29/2016 3:47:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/29/2016 3:47:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/29/2016 3:47:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/29/2016 3:47:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1