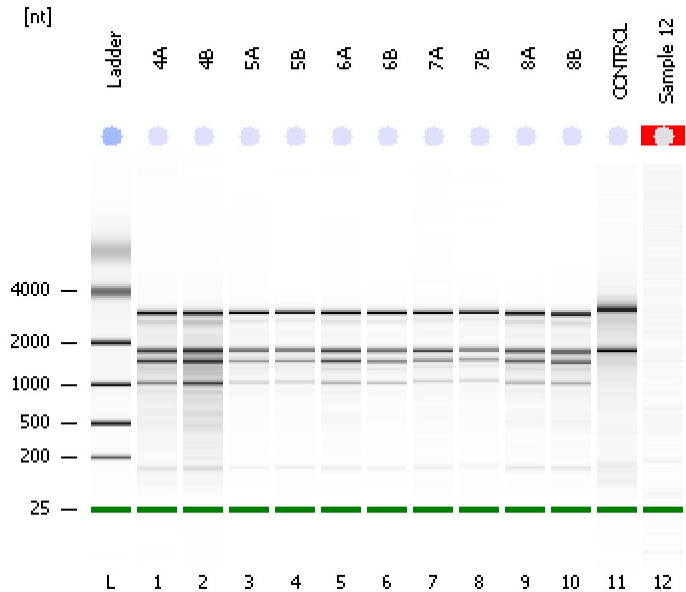


Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 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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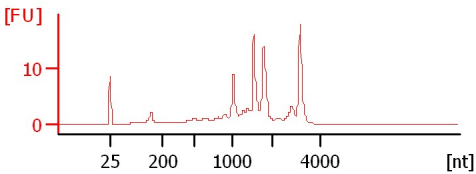
Chip Information:

Chip Lot #:

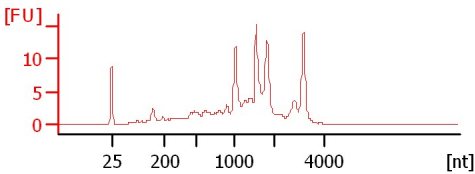
Reagent Kit Lot #:

Chip Comments:

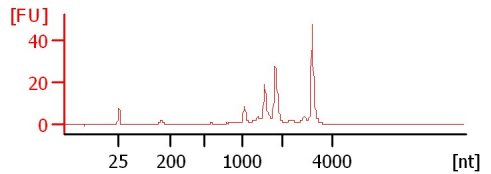
4A
RIN: 6.70



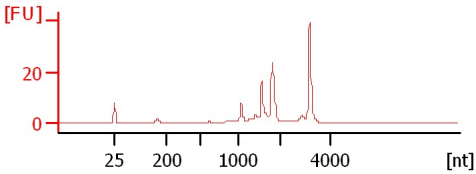
4B
RIN: 6



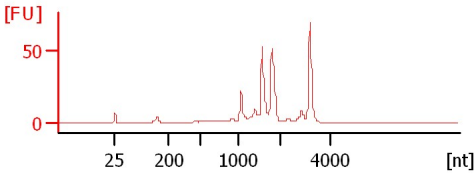
5A
RIN: 7.70



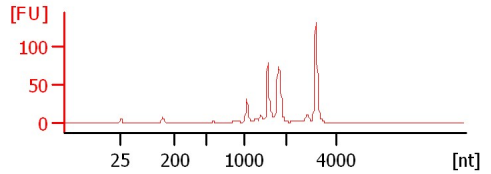
5B
RIN: 7.70



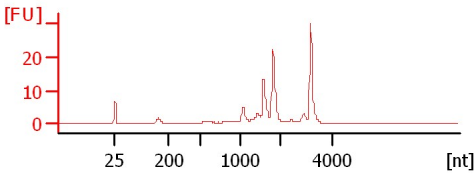
6A
RIN: 6.90



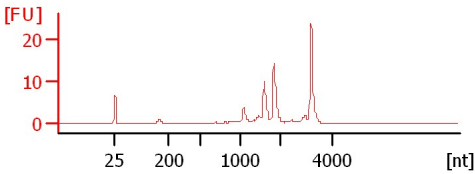
6B
RIN: 7.70



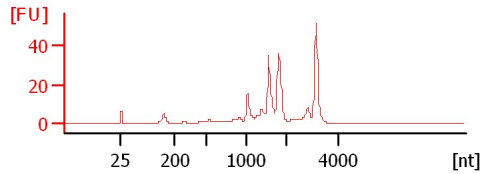
7A
RIN: 7.30



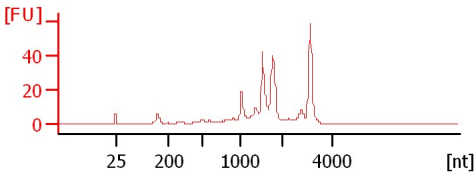
7B
RIN: 7.70



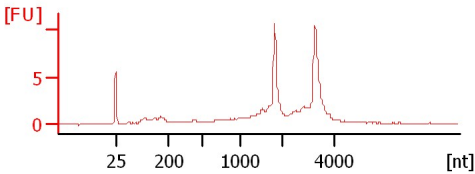
8A
RIN: 7.10



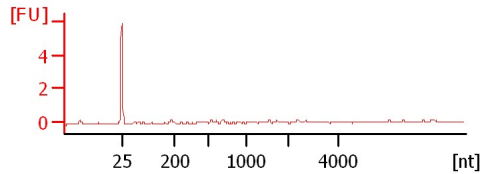
8B
RIN: 7.10



CONTROL
RIN: 8.20



Sample 12
RIN N/A



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
 Modified: 2/10/2015 5:00:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
4A		✓	RIN: 6.70	
4B		✓	RIN:6	
5A		✓	RIN: 7.70	
5B		✓	RIN: 7.70	
6A		✓	RIN: 6.90	
6B		✓	RIN: 7.70	
7A		✓	RIN: 7.30	
7B		✓	RIN: 7.70	
8A		✓	RIN: 7.10	
8B		✓	RIN: 7.10	
CONTROL		✓	RIN: 8.20	
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\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 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

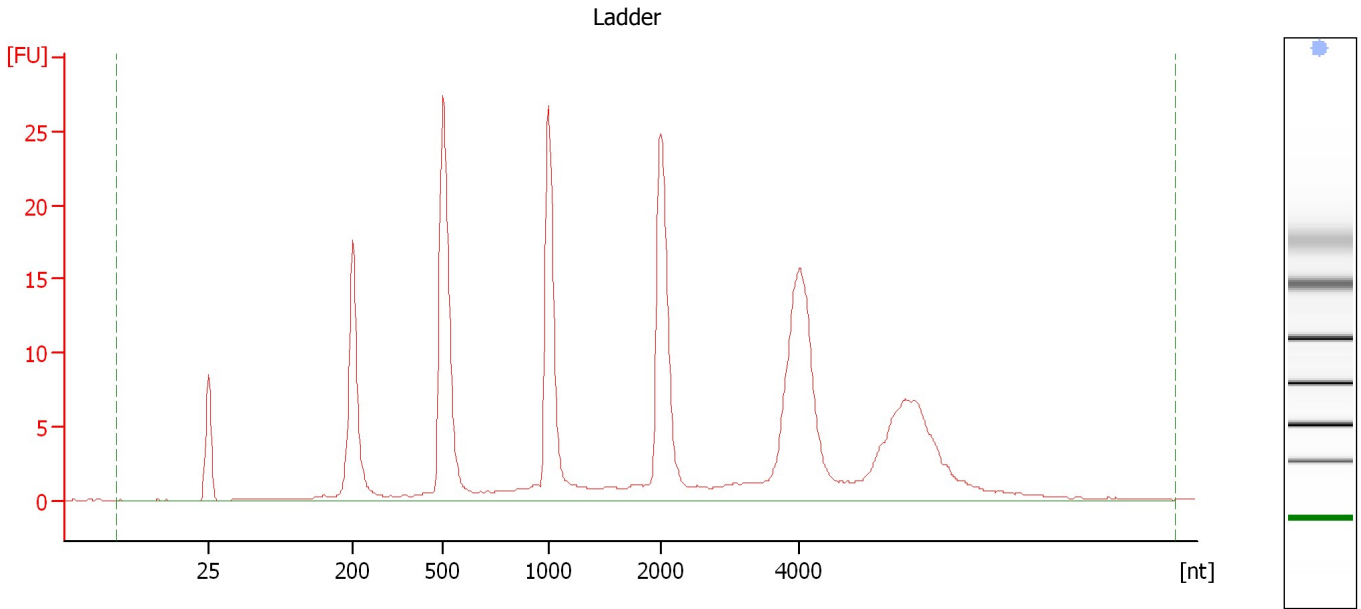
Ladder

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\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary



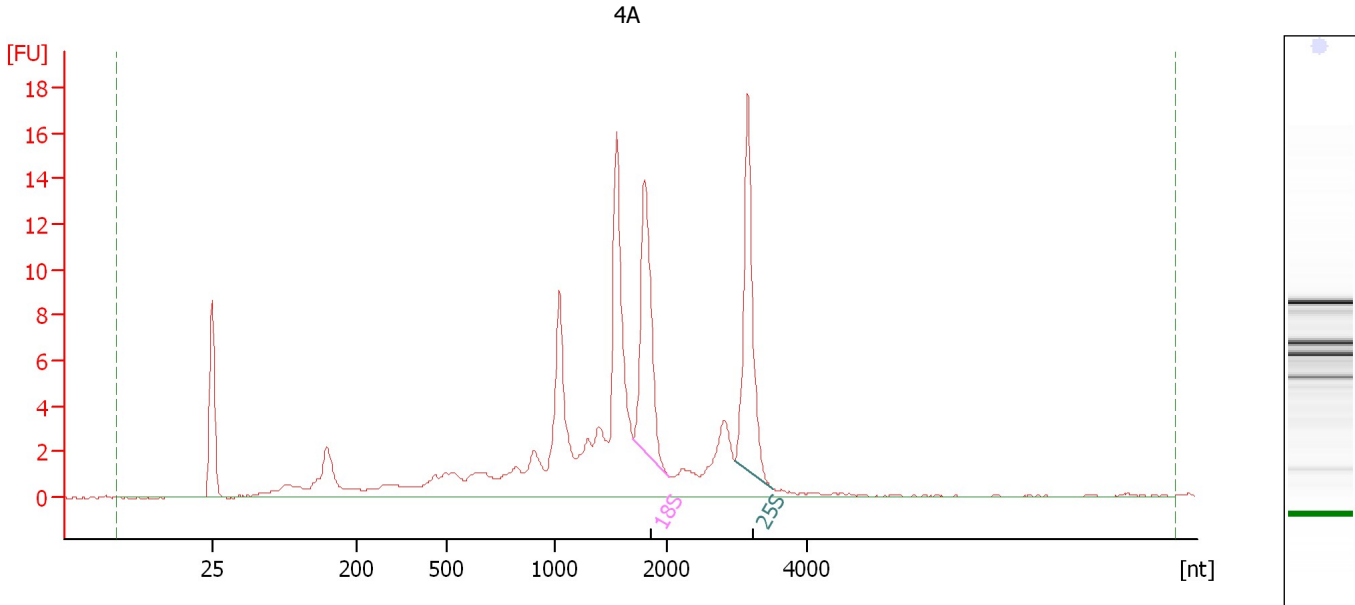
Overall Results for Ladder

RNA Area:	252.7	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 4A

RNA Area:	122.9	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	73 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.1	Result Flagging Label:	RIN: 6.70

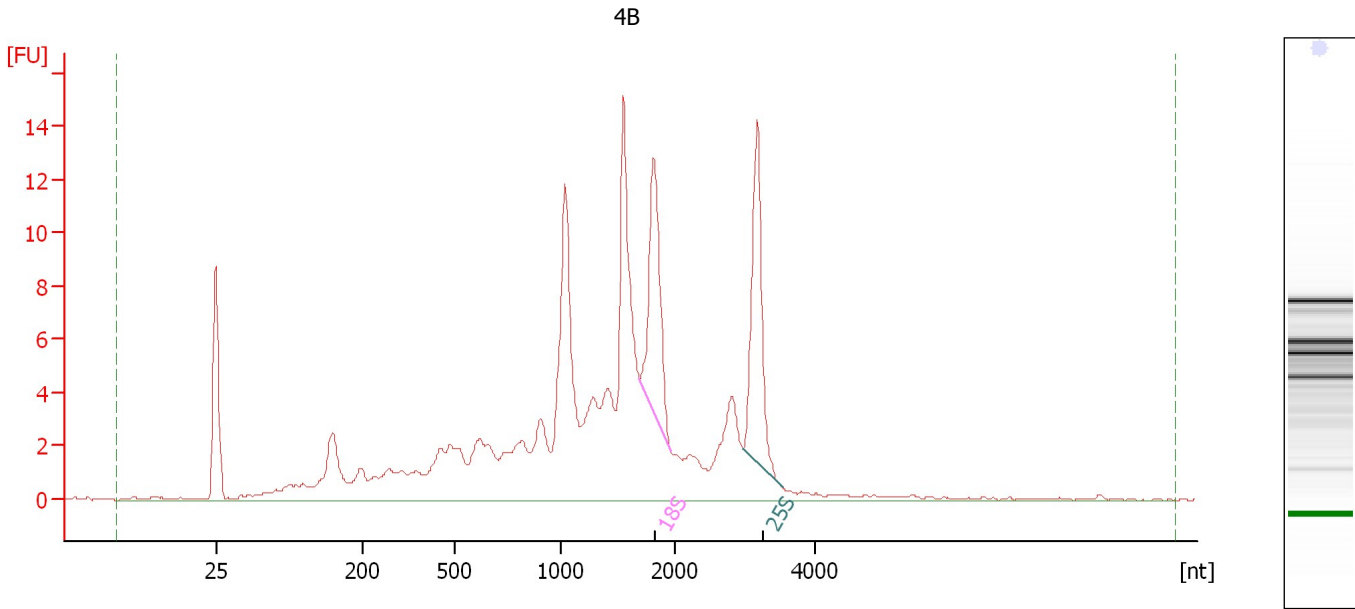
Fragment table for sample 1 : 4A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,700	2,020	14.9	12.1
25S	2,968	3,518	16.0	13.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 4B

RNA Area: 169.1 RNA Integrity Number (RIN): 6 (B.02.08)
RNA Concentration: 100 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.1 Result Flagging Label: RIN:6

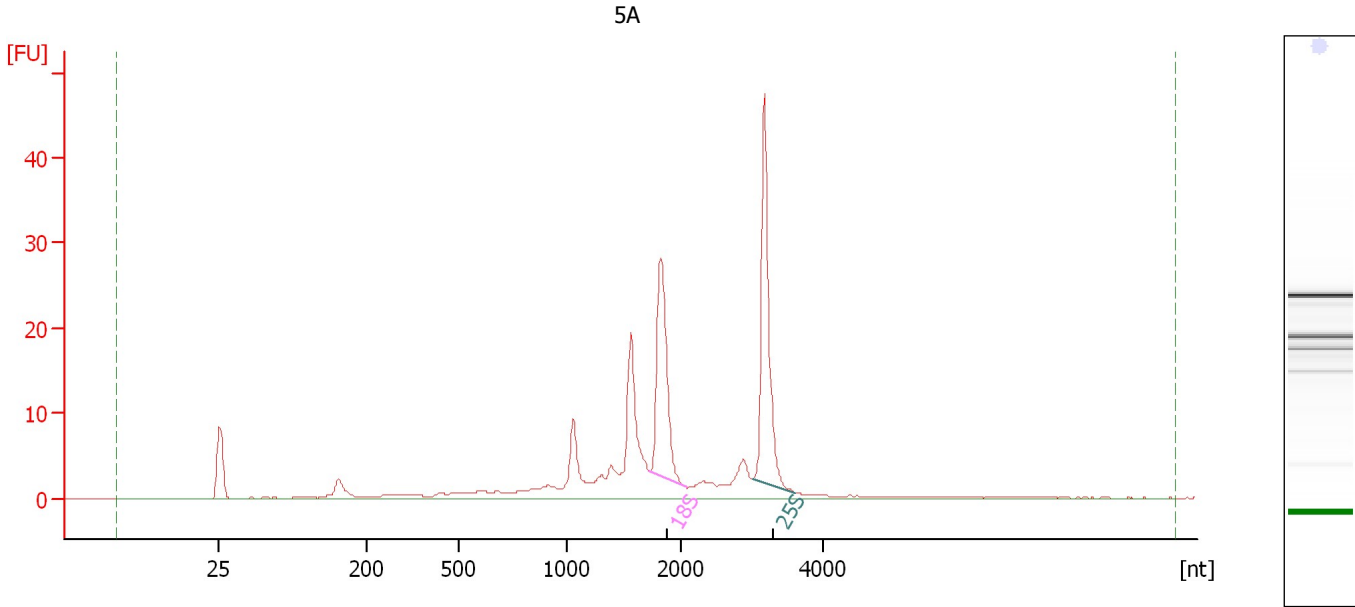
Fragment table for sample 2 : 4B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	1,960	12.7	7.5
25S	2,967	3,527	13.6	8.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 5A

RNA Area: 169.2 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 100 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.70

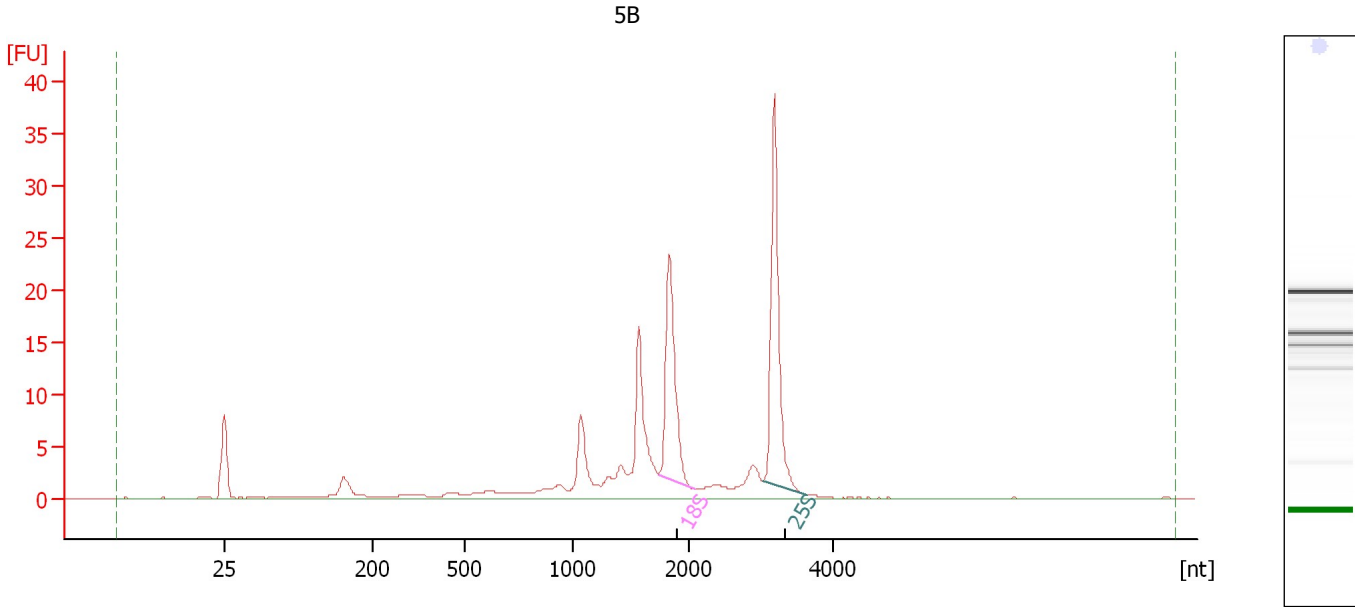
Fragment table for sample 3 : 5A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,721	2,077	30.1	17.8
25S	3,011	3,613	37.1	21.9

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 5B

RNA Area: 134.2 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 80 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.70

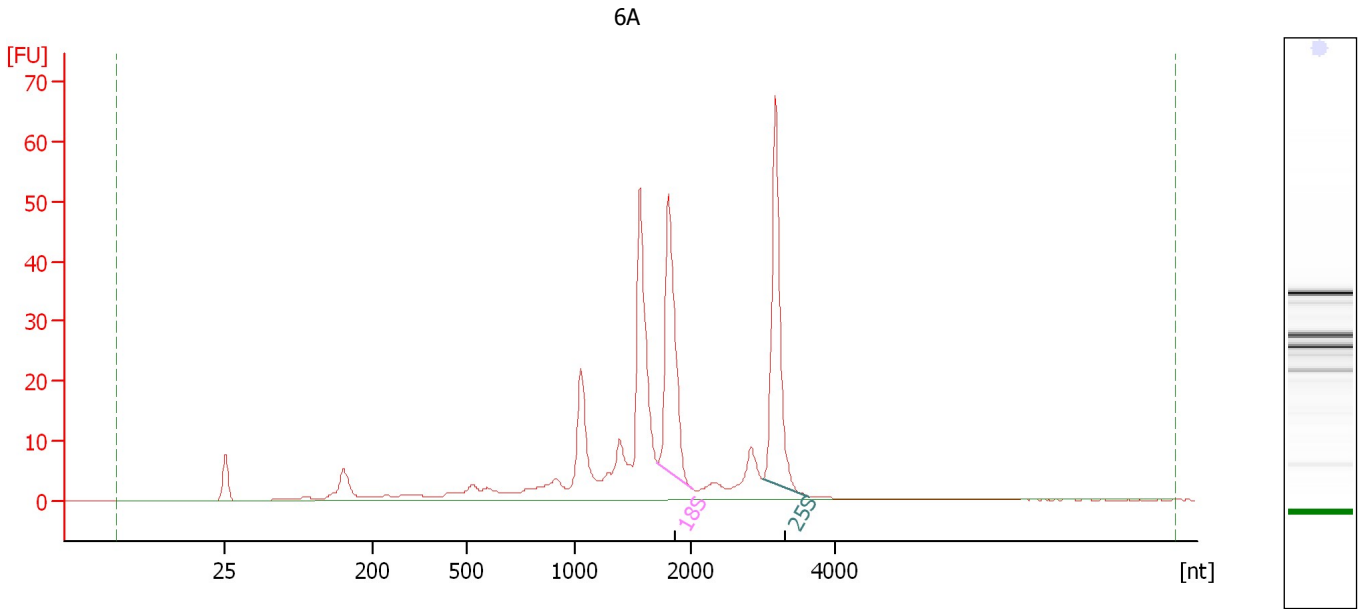
Fragment table for sample 4 : 5B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,736	2,068	24.1	18.0
25S	3,024	3,652	29.7	22.1

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 6A

RNA Area: 320.8 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 190 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.0 Result Flagging Label: RIN: 6.90

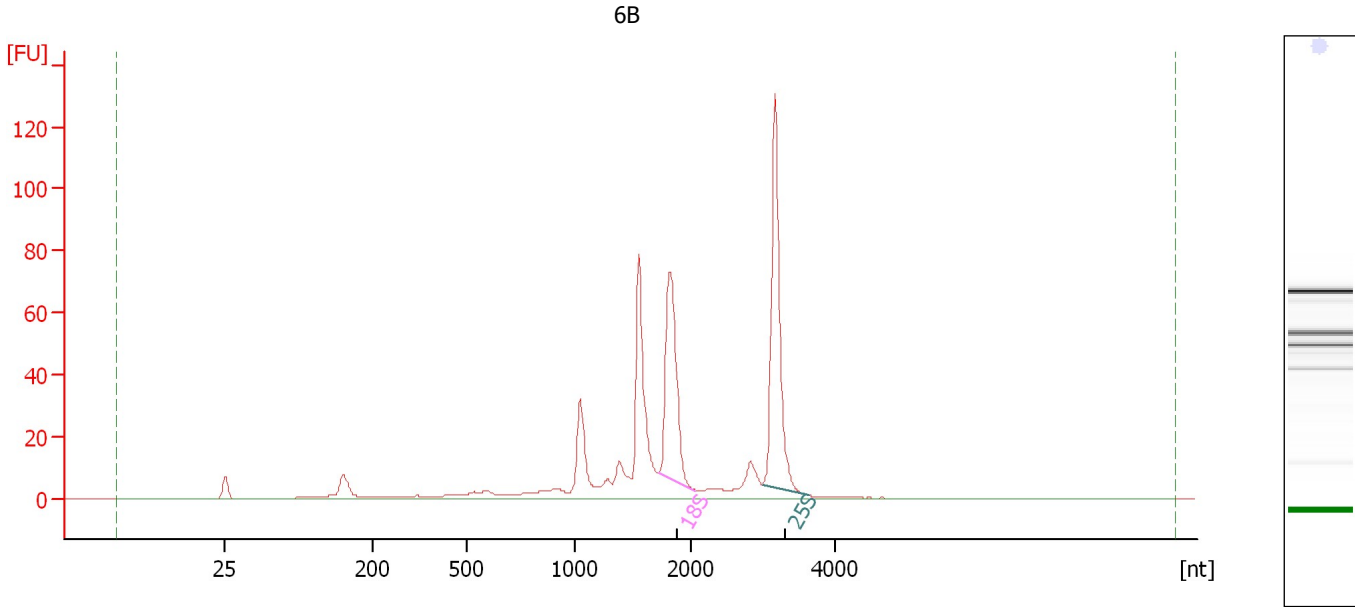
Fragment table for sample 5 : 6A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,710	2,024	54.6	17.0
25S	2,994	3,650	56.4	17.6

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 6B

RNA Area: 473.7 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 281 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 7.70

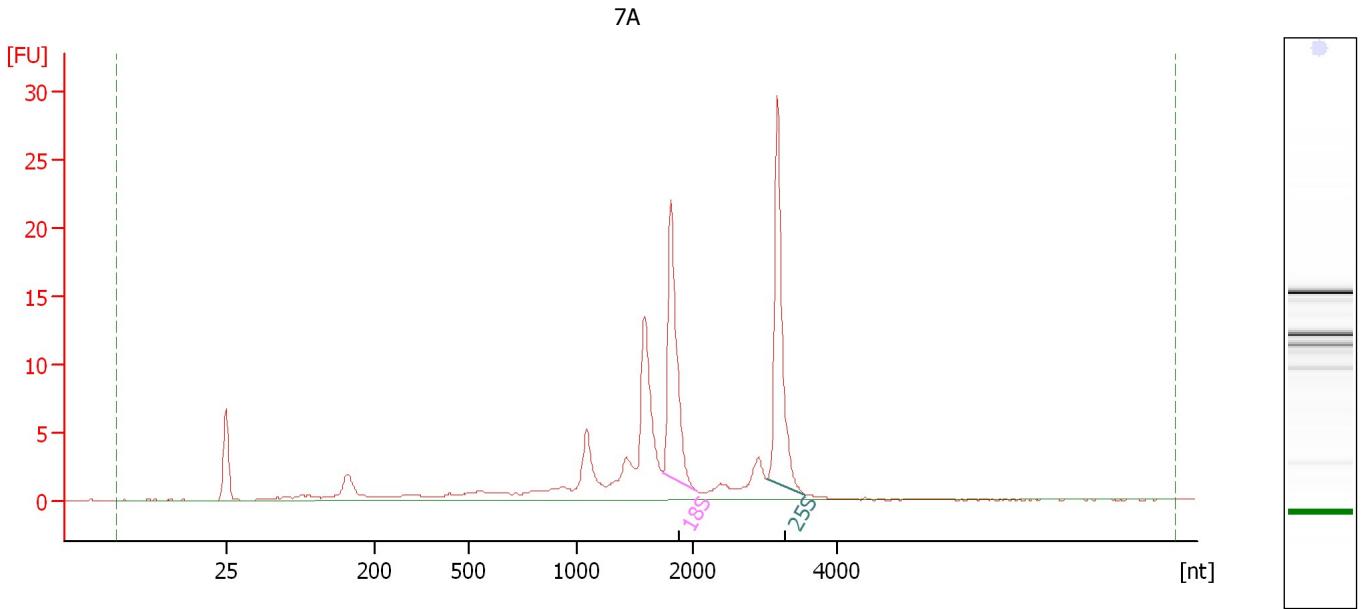
Fragment table for sample 6 : 6B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,719	2,054	87.3	18.4
25S	2,994	3,650	109.5	23.1

Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
 Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 7A

RNA Area:	116.2	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	69 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.1	Result Flagging Label:	RIN: 7.30

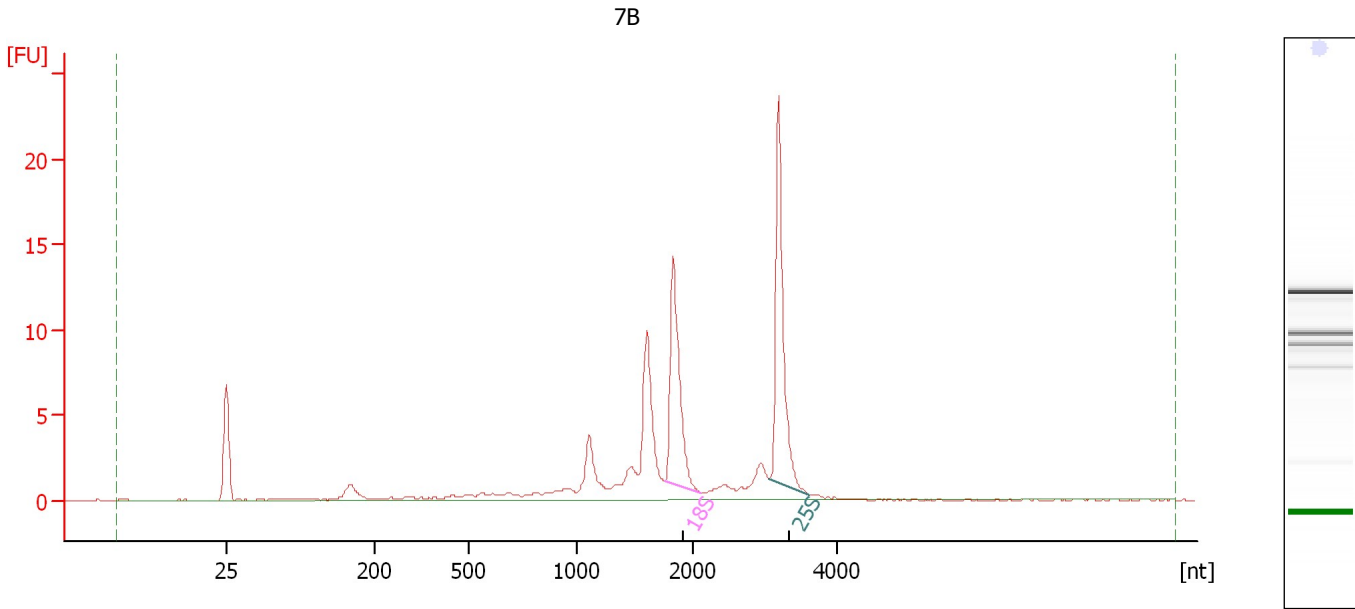
Fragment table for sample 7 : 7A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,739	2,041	21.1	18.1
25S	3,038	3,544	23.3	20.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 7B

RNA Area: 74.0 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 44 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 7.70

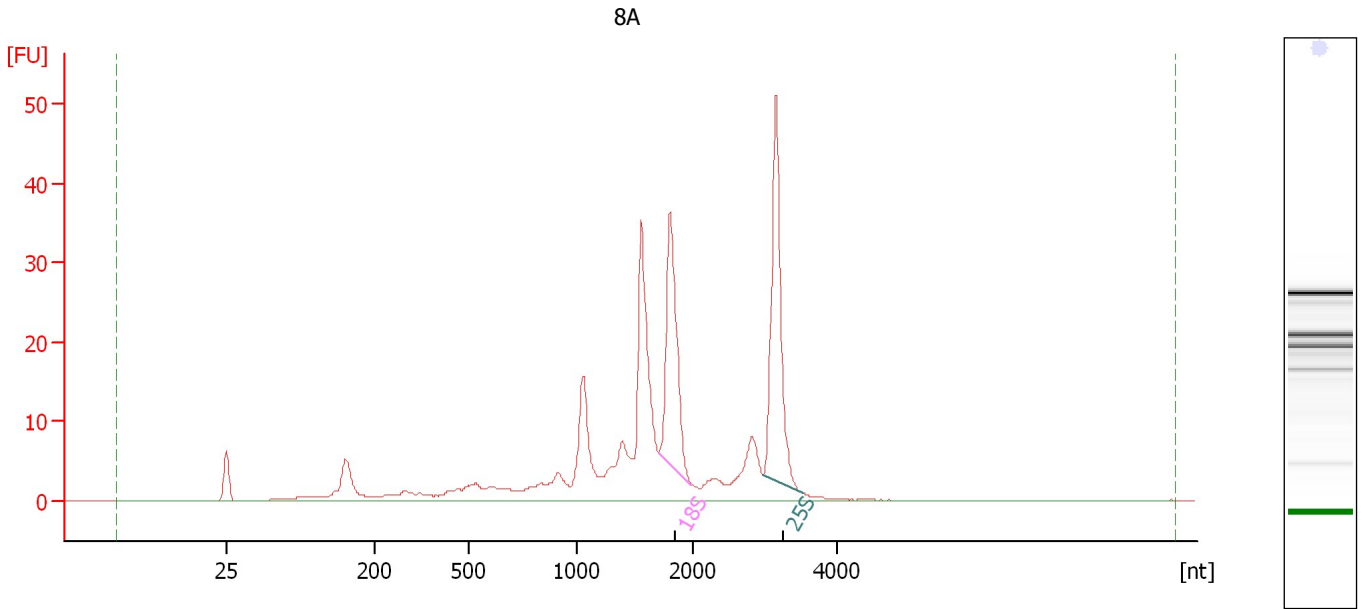
Fragment table for sample 8 : 7B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,749	2,115	14.2	19.2
25S	3,068	3,604	18.1	24.4

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 8A

RNA Area: 264.0 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 157 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 7.10

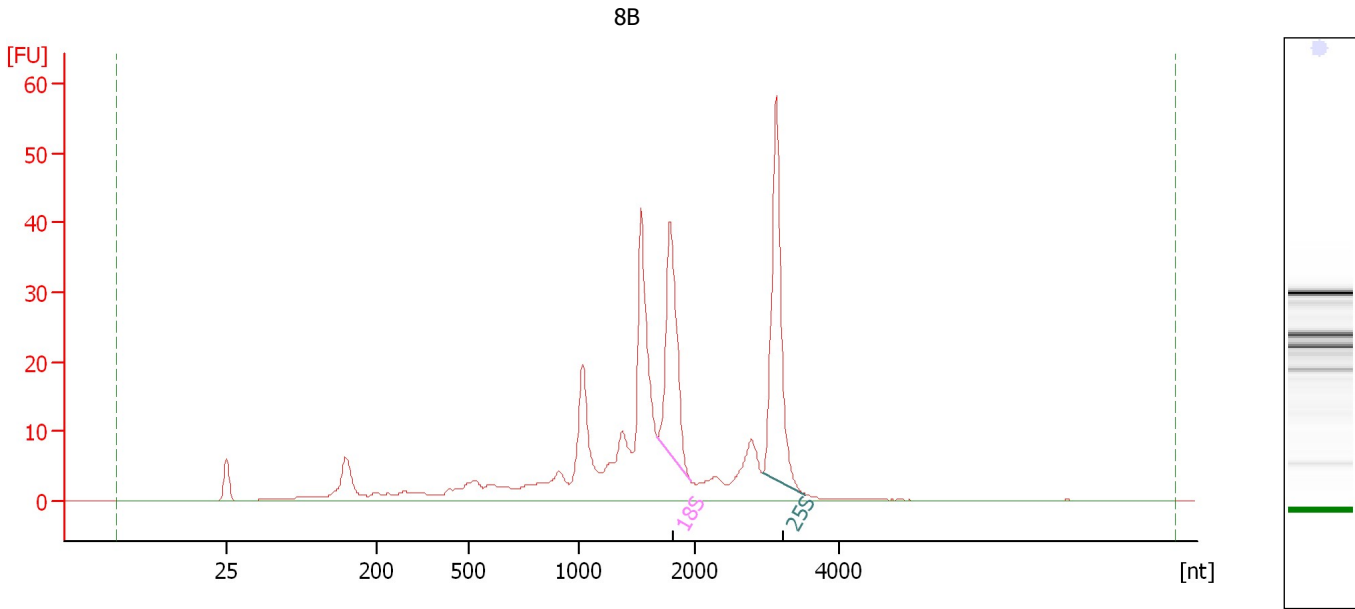
Fragment table for sample 9 : 8A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	1,988	39.3	14.9
25S	2,979	3,529	47.5	18.0

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 8B

RNA Area: 333.2 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 198 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN: 7.10

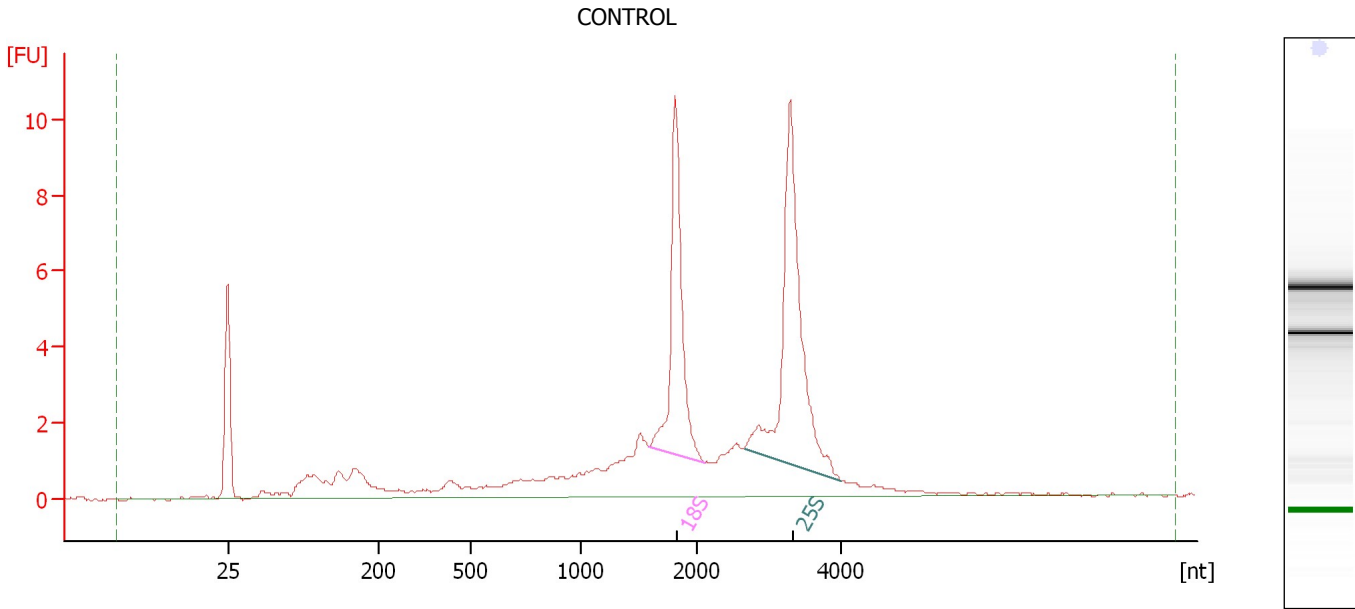
Fragment table for sample 10 : 8B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	1,962	43.0	12.9
25S	2,934	3,528	55.7	16.7

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : CONTROL

RNA Area:	72.3	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	43 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.5	Result Flagging Label:	RIN: 8.20

Fragment table for sample 11 : CONTROL

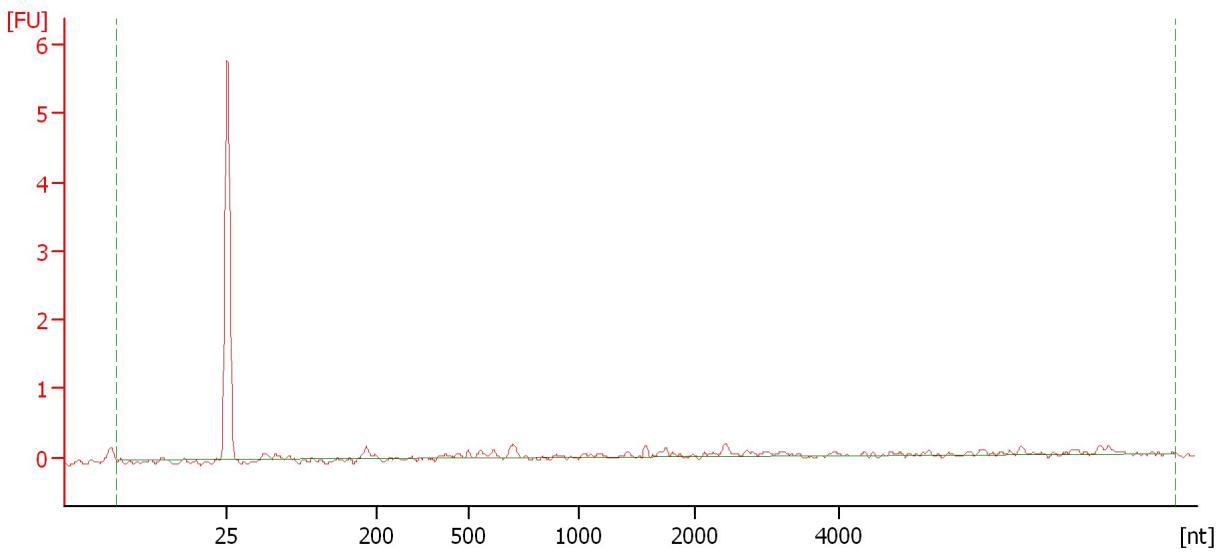
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	2,118	11.6	16.0
25S	2,652	3,986	17.5	24.2

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Electropherogram Summary Continued ...

Sample 12



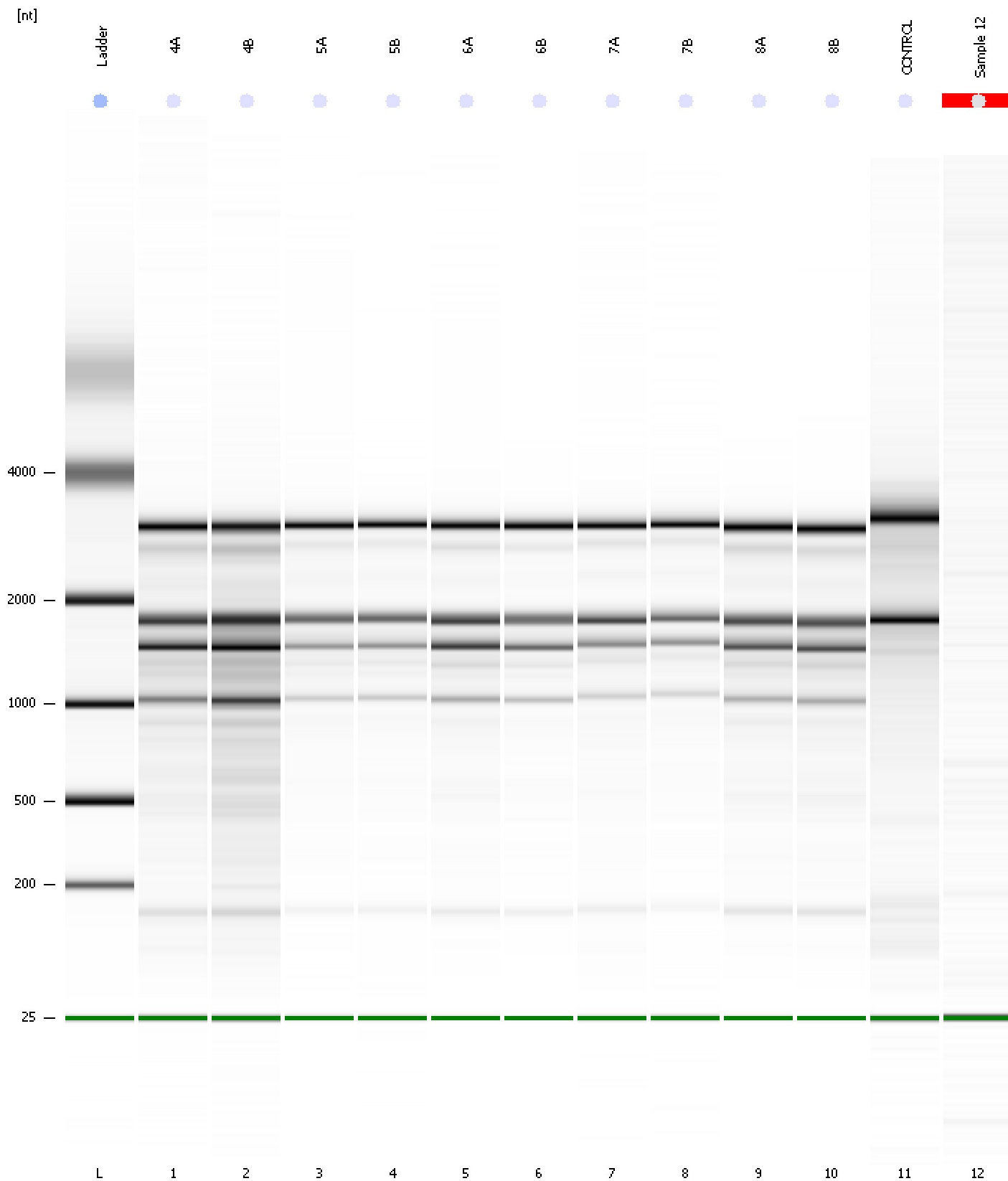
Overall Results for sample 12 : Sample 12

RNA Area:	1.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
Modified: 2/10/2015 5:00:05 PM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad

Created: 2/10/2015 4:33:42 PM
 Modified: 2/10/2015 5:00:05 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		2/10/2015 4:56:44 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-10\2015-02-10_006.xad)		Instrument	Run		2/10/2015 4:33:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/10/2015 4:33:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/10/2015 4:33:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/10/2015 4:33:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/10/2015 4:33:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/10/2015 4:33:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/10/2015 4:33:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1