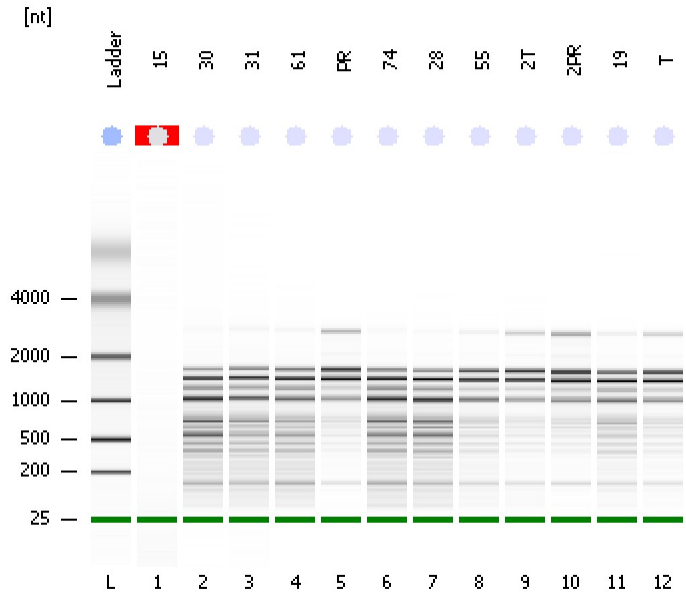


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

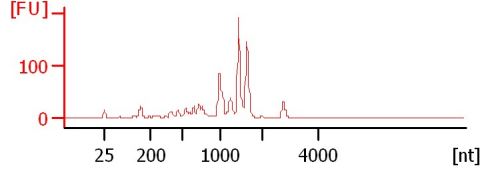
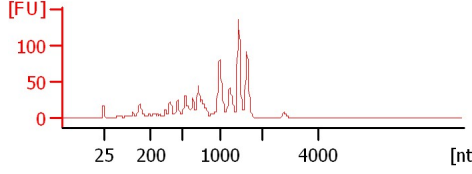
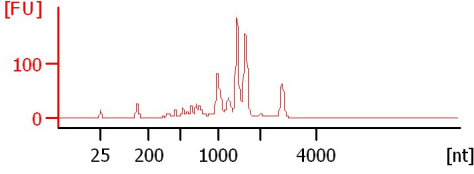
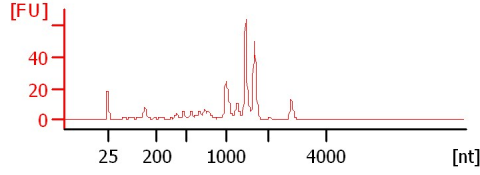
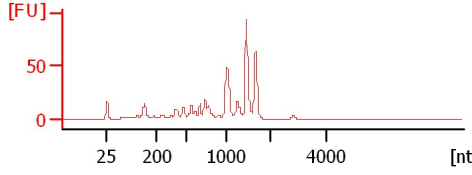
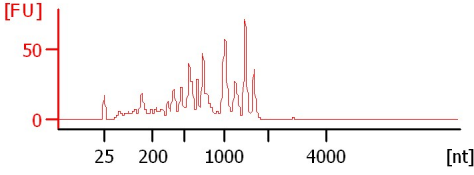
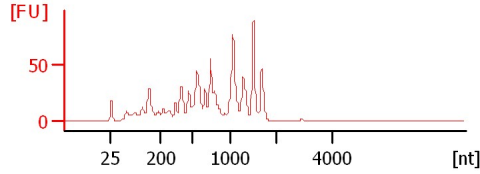
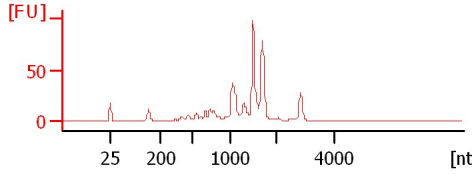
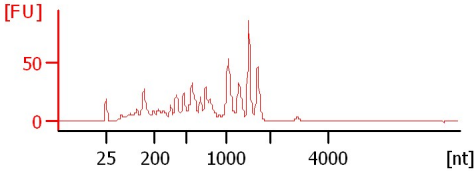
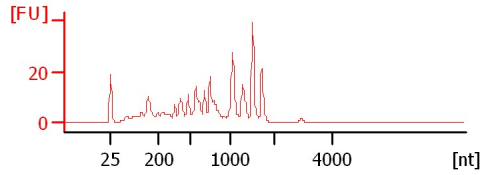
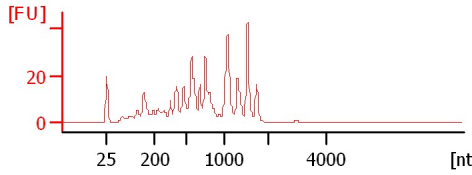
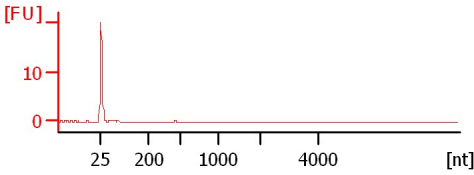
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
 Modified: 8/26/2019 2:07:50 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
15		✓	RIN N/A	
30		✓	RIN: 3.10	
31		✓	RIN: 3.90	
61		✓	RIN: 3.80	
PR		✓	RIN: 5.90	
74		✓	RIN: 3.40	
28		✓	RIN: 3.30	
55		✓	RIN:5	
2T		✓	RIN: 5.90	
2PR		✓	RIN: 5.90	
19		✓	RIN: 4.60	
T		✓	RIN: 5.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 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

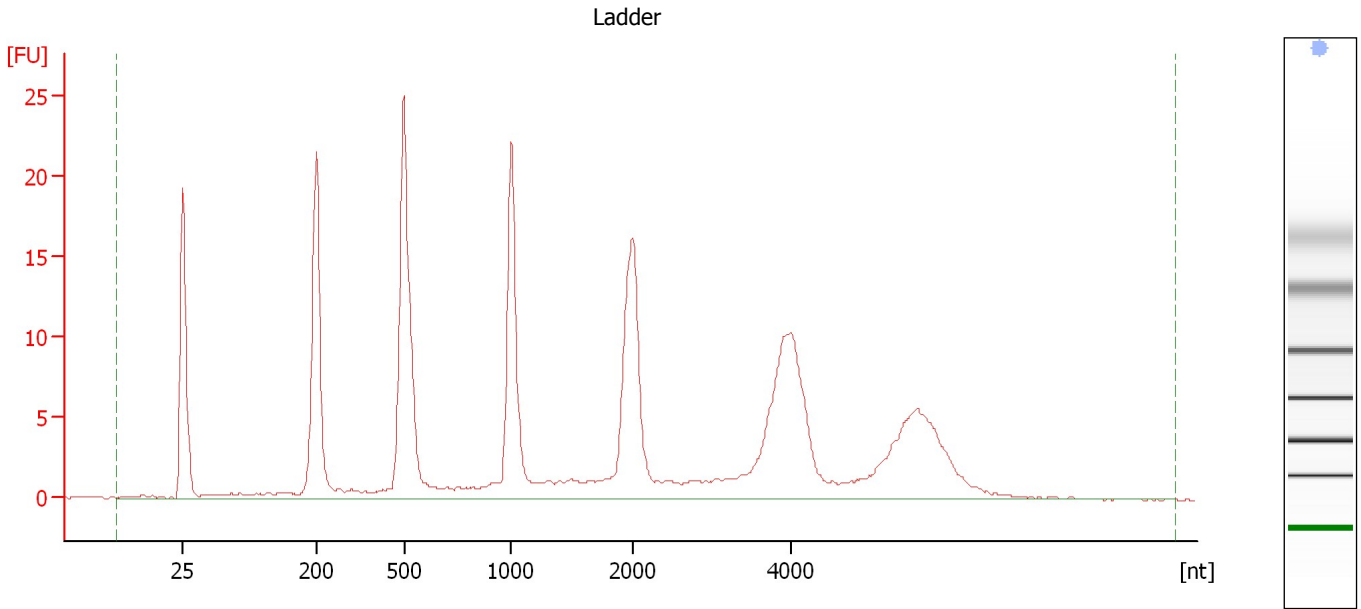
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary



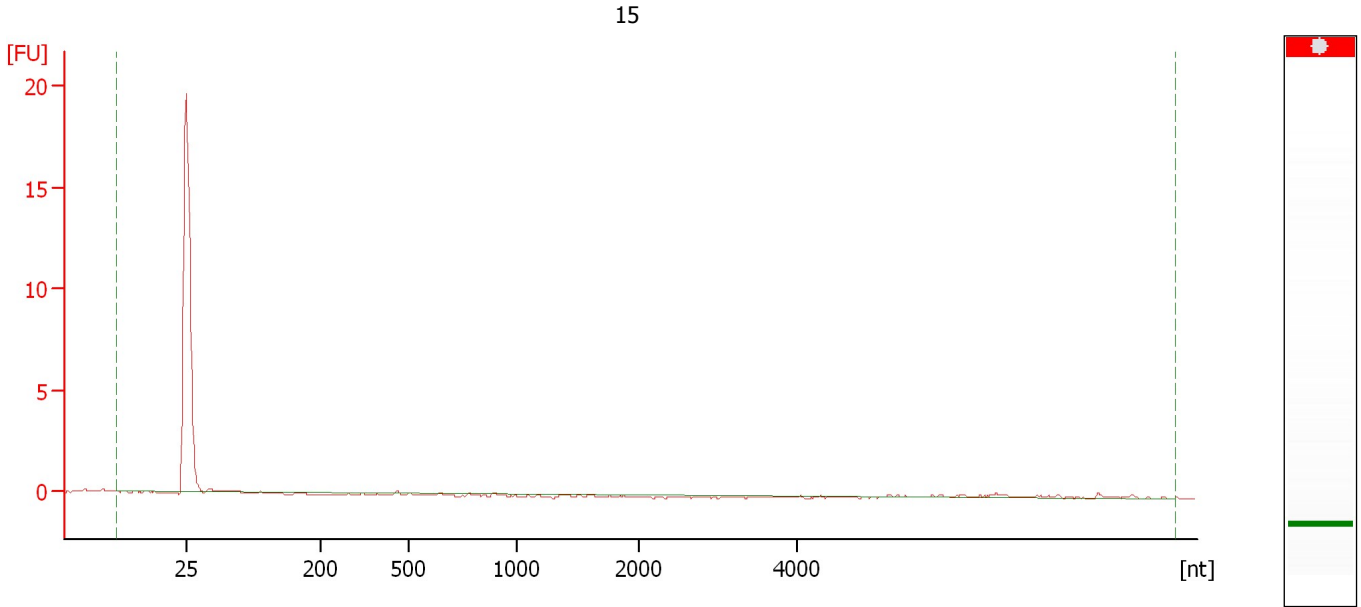
Overall Results for Ladder

RNA Area:	240.7	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



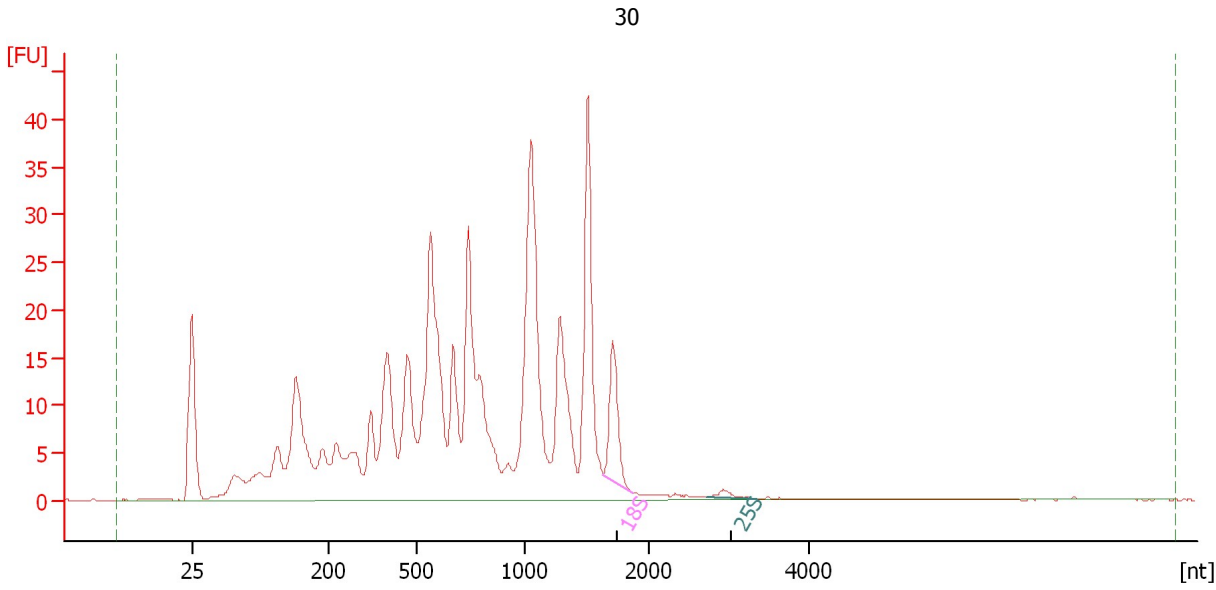
Overall Results for sample 1 : 15

RNA Area:	1.7	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:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 30

RNA Area:	482.5	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	301 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.1	Result Flagging Label:	RIN: 3.10

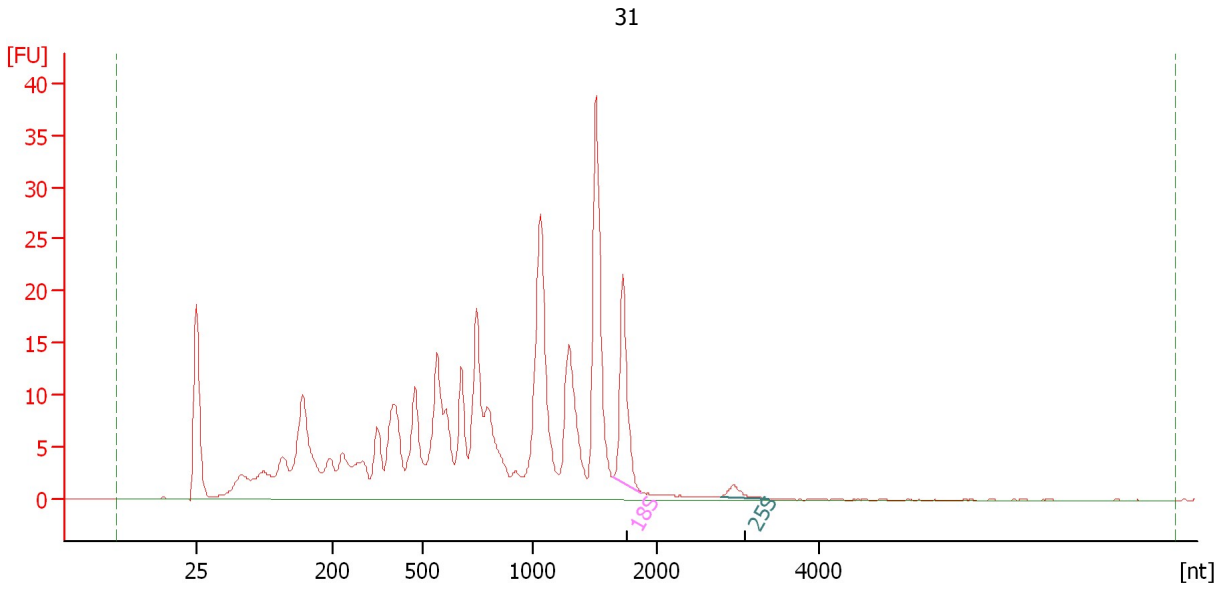
Fragment table for sample 2 : 30

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,865	14.8	3.1
25S	2,724	3,348	1.2	0.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 31

RNA Area:	348.4	RNA Integrity Number (RIN):	3.9 (B.02.08)
RNA Concentration:	217 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.1	Result Flagging Label:	RIN: 3.90

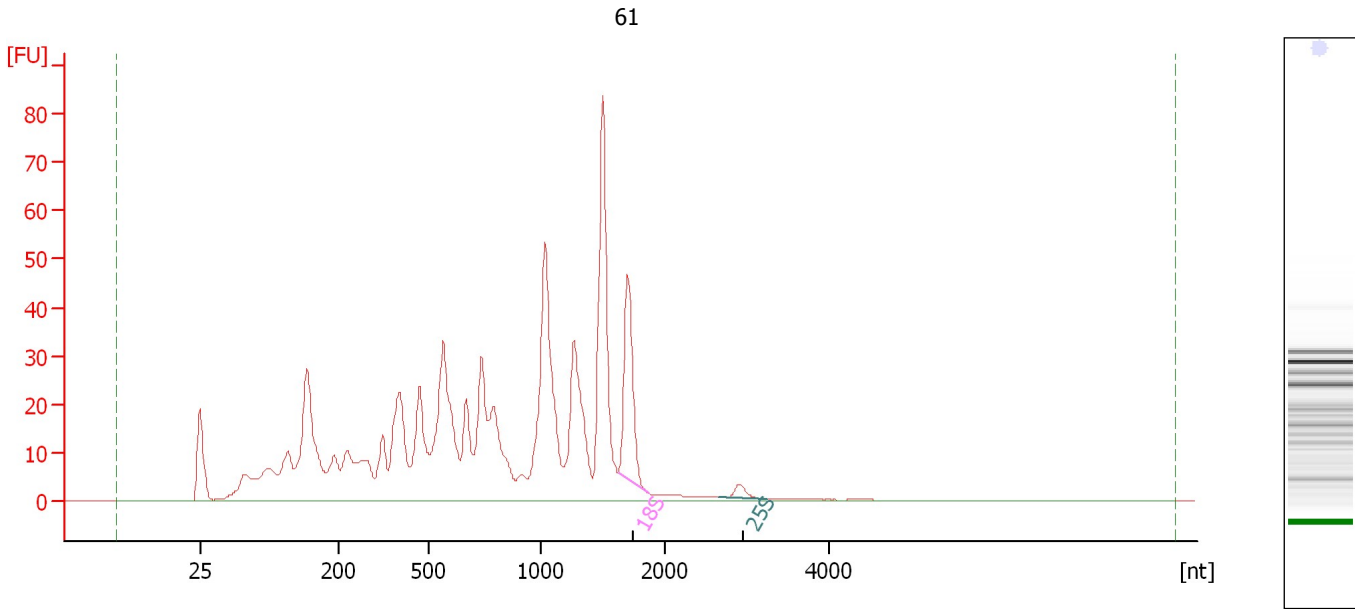
Fragment table for sample 3 : 31

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,878	18.3	5.2
25S	2,801	3,393	1.6	0.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 61

RNA Area:	791.3	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	493 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.1	Result Flagging Label:	RIN: 3.80

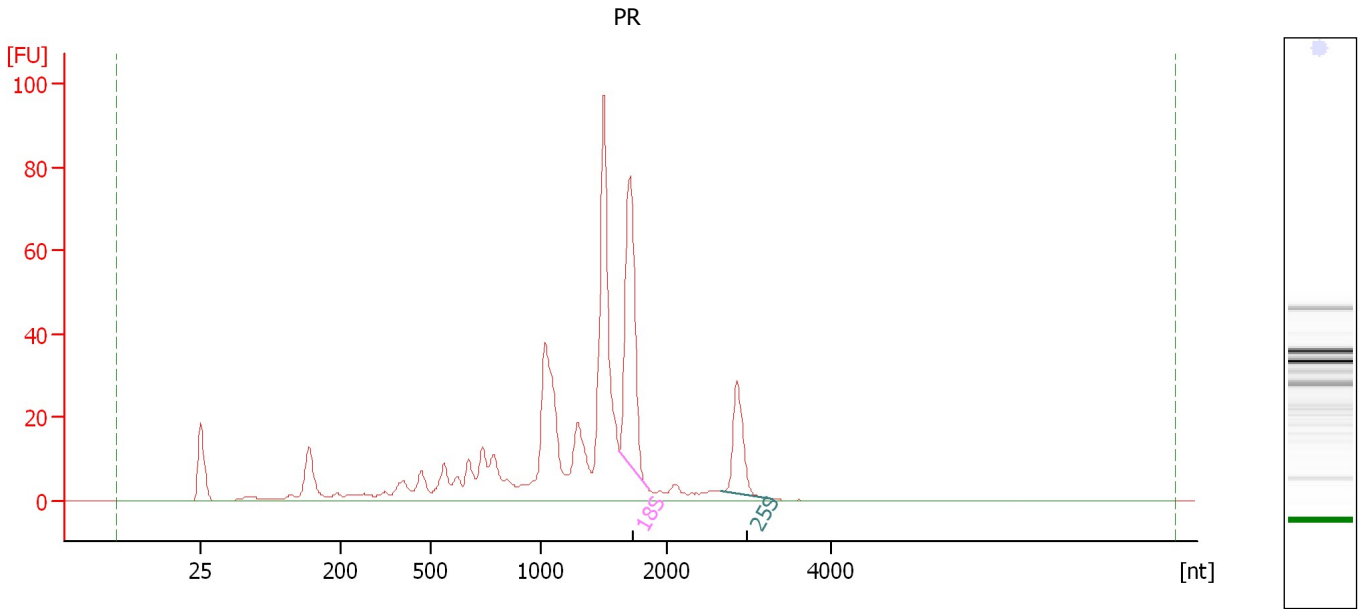
Fragment table for sample 4 : 61

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,864	43.5	5.5
25S	2,667	3,254	3.5	0.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : PR

RNA Area: 530.4 RNA Integrity Number (RIN): 5.9 (B.02.08)
RNA Concentration: 331 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.4 Result Flagging Label: RIN: 5.90

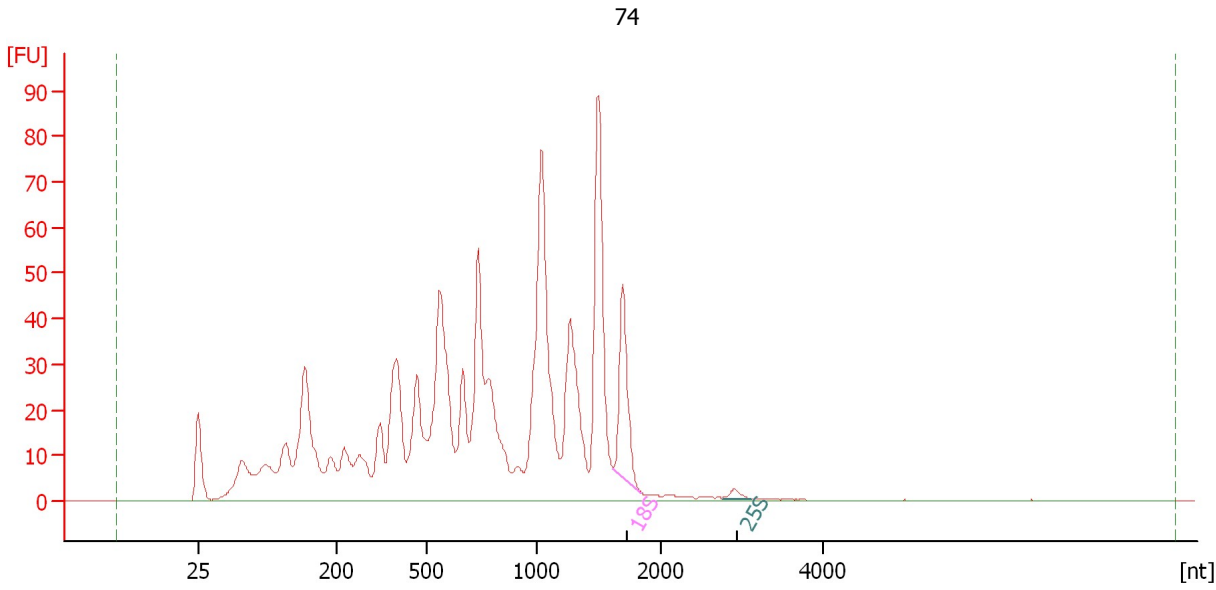
Fragment table for sample 5 : PR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	1,848	81.5	15.4
25S	2,653	3,291	29.4	5.5

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
 Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 74

RNA Area:	1,006.8	RNA Integrity Number (RIN):	3.4 (B.02.08)
RNA Concentration:	627 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.1	Result Flagging Label:	RIN: 3.40

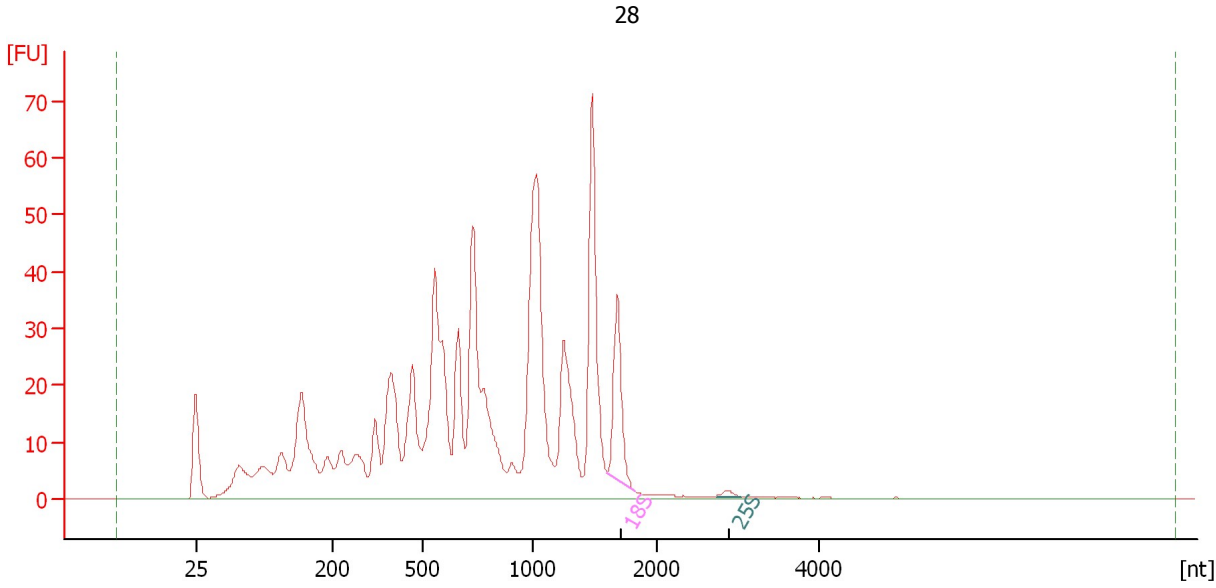
Fragment table for sample 6 : 74

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	1,845	42.6	4.2
25S	2,760	3,114	2.1	0.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 28

RNA Area:	755.3	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	471 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 3.30

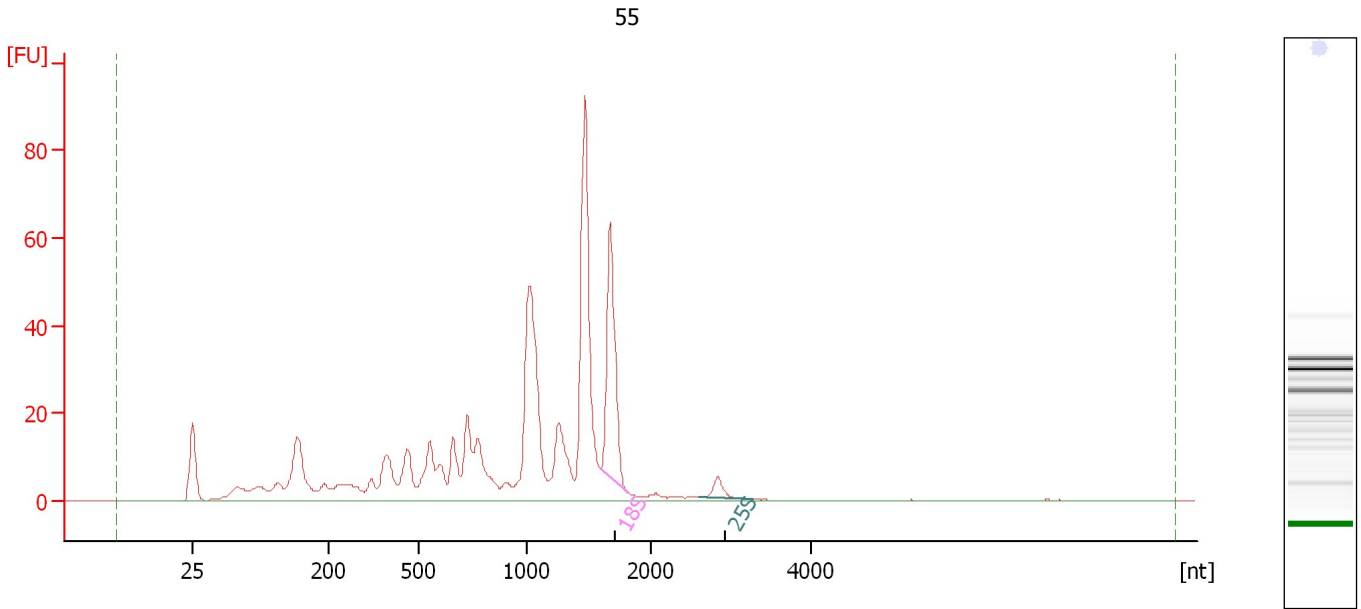
Fragment table for sample 7 : 28

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	1,826	30.7	4.1
25S	2,735	3,037	1.1	0.1

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
 Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 55

RNA Area:	544.5	RNA Integrity Number (RIN):	5 (B.02.08)
RNA Concentration:	339 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.1	Result Flagging Label:	RIN:5

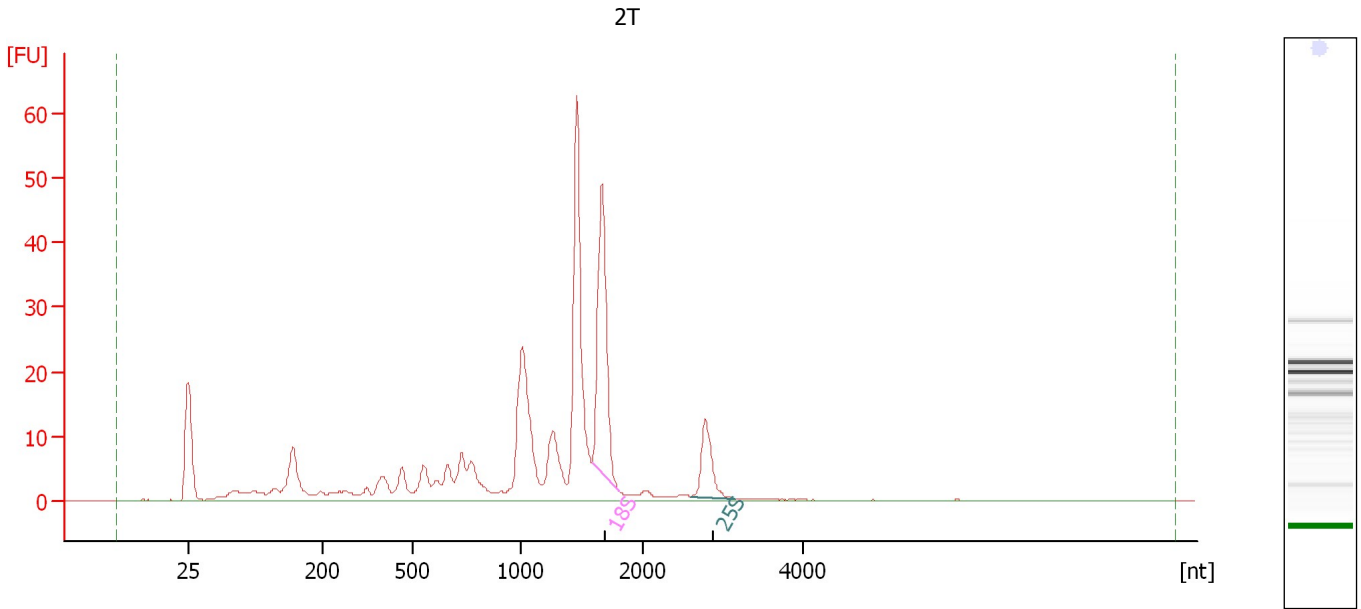
Fragment table for sample 8 : 55

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	1,823	59.8	11.0
25S	2,604	3,267	5.8	1.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 2T

RNA Area:	313.1	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	195 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.3	Result Flagging Label:	RIN: 5.90

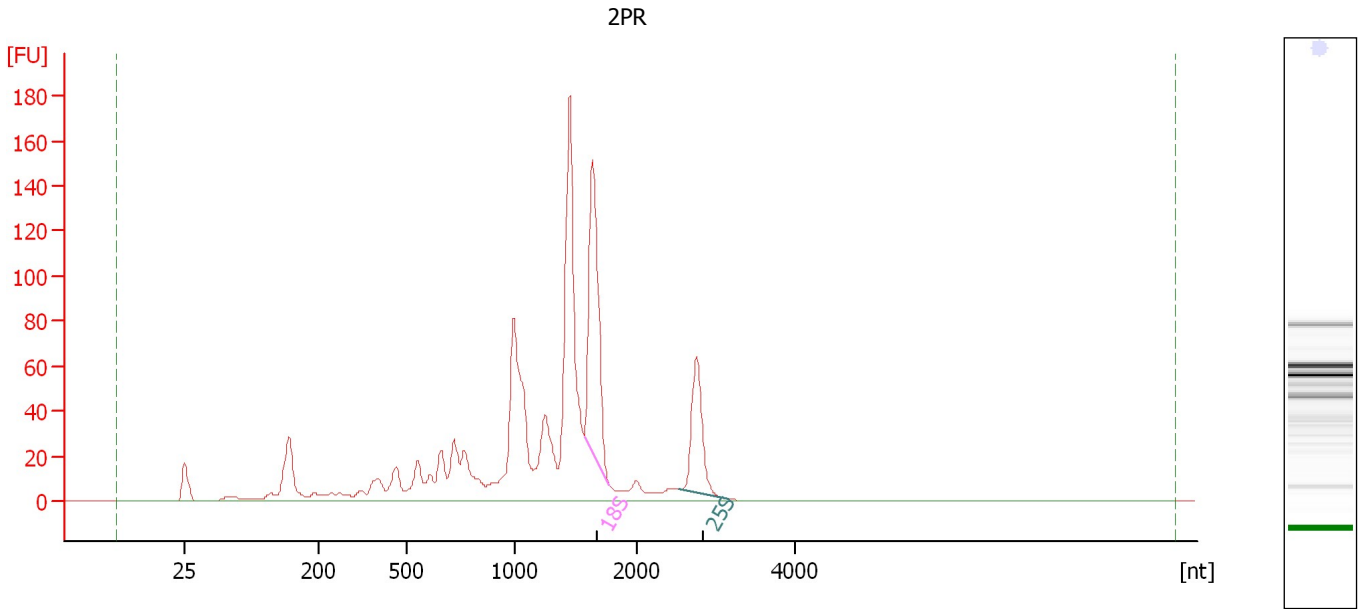
Fragment table for sample 9 : 2T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,591	1,801	49.3	15.7
25S	2,606	3,154	14.0	4.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 2PR

RNA Area:	1,100.5	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	686 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.5	Result Flagging Label:	RIN: 5.90

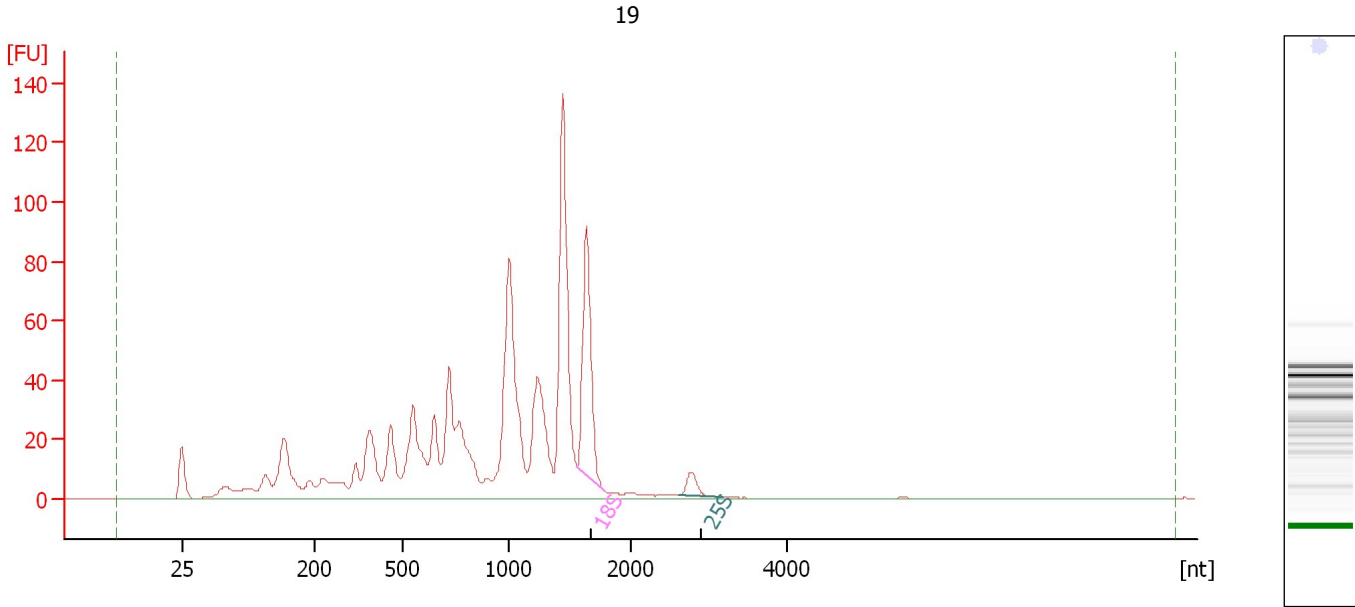
Fragment table for sample 10 : 2PR

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,569	1,780	160.3	14.6
25S	2,526	3,172	73.6	6.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 19

RNA Area:	948.9	RNA Integrity Number (RIN):	4.6 (B.02.08)
RNA Concentration:	591 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.1	Result Flagging Label:	RIN: 4.60

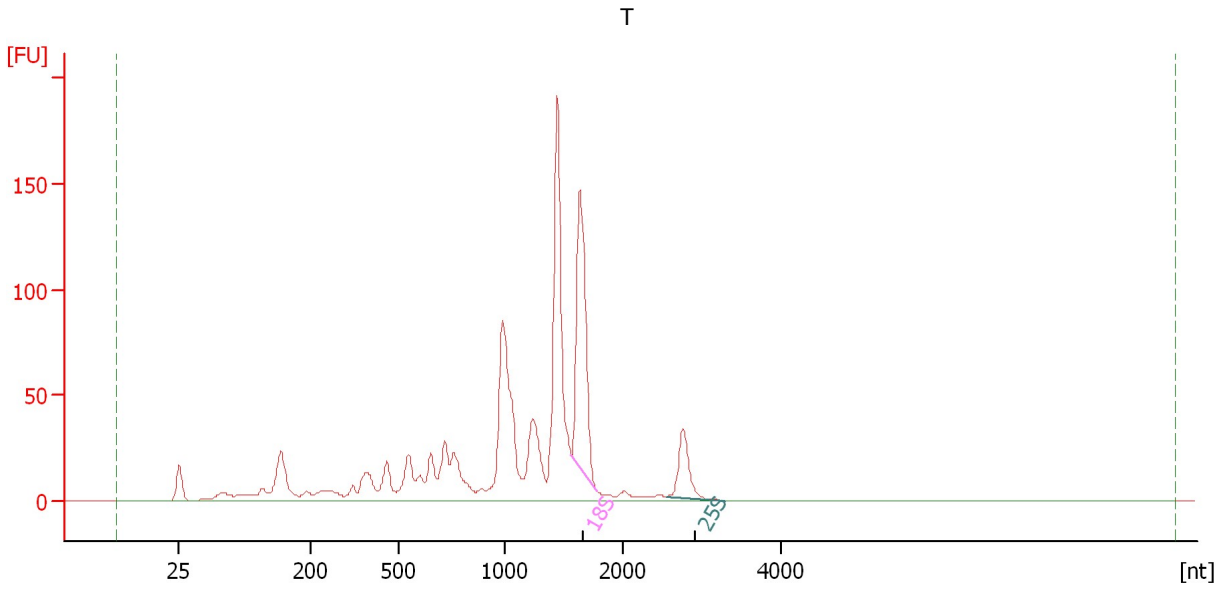
Fragment table for sample 11 : 19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,564	1,786	87.6	9.2
25S	2,608	3,190	9.7	1.0

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
 Modified: 8/26/2019 2:07:50 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : I

RNA Area:	1,034.1	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	644 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.3	Result Flagging Label:	RIN: 5.60

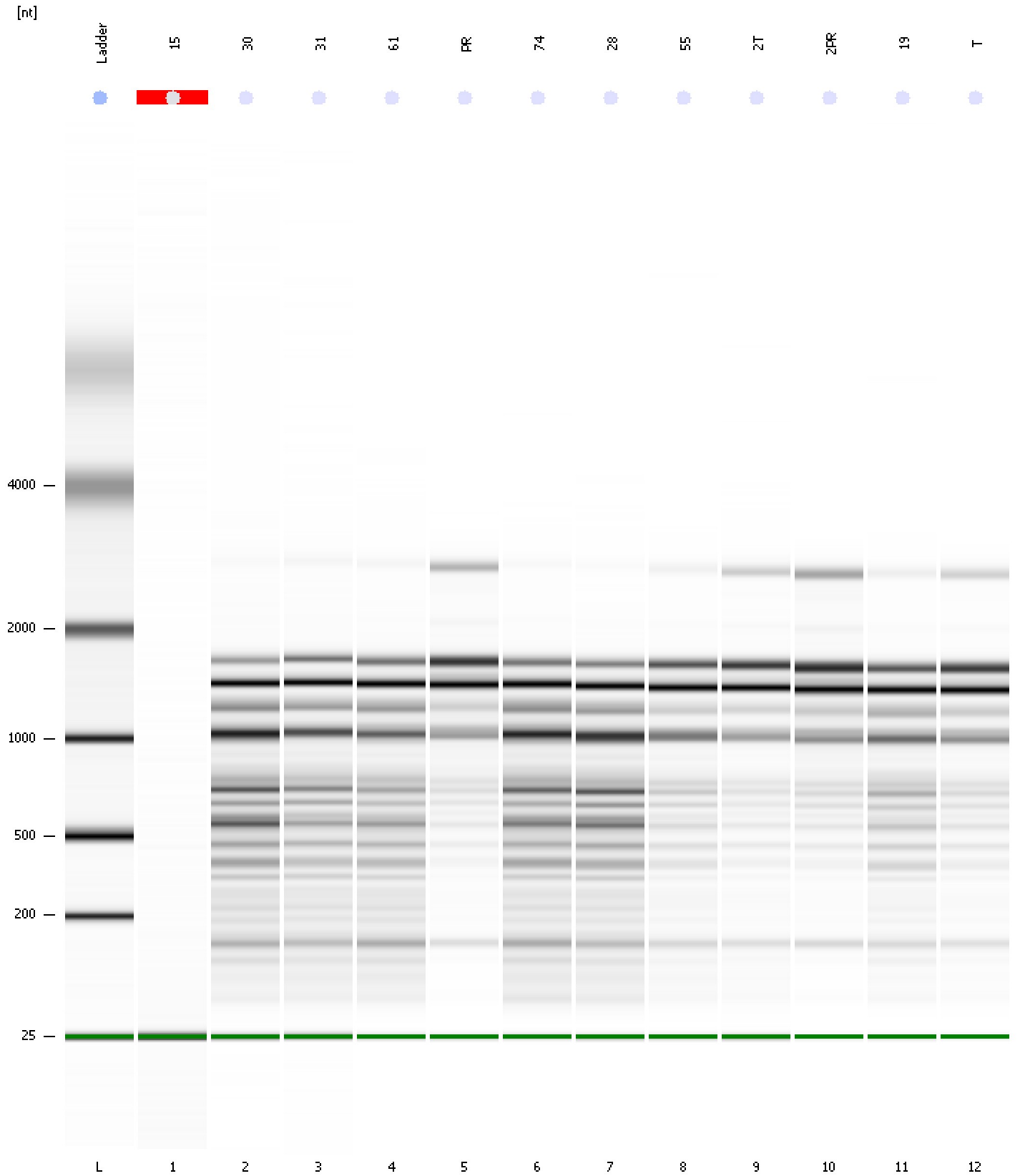
Fragment table for sample 12 : I

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,783	153.0	14.8
25S	2,541	3,291	39.9	3.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
Modified: 8/26/2019 2:07:50 PM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad

Created: 8/26/2019 1:43:59 PM
 Modified: 8/26/2019 2:07:50 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		8/26/2019 2:07:49 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-26\2019-08-26_002.xad)		Instrument	Run		8/26/2019 1:44:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/26/2019 1:44:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/26/2019 1:44:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/26/2019 1:44:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/26/2019 1:44:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/26/2019 1:44:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/26/2019 1:44:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1