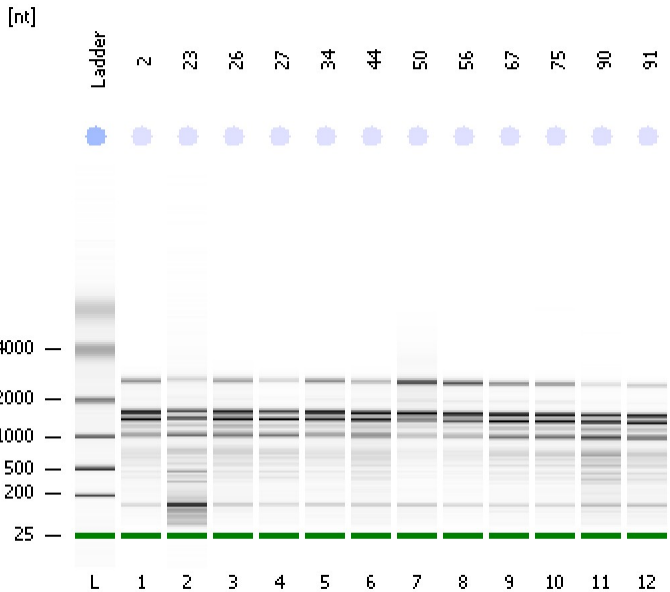


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

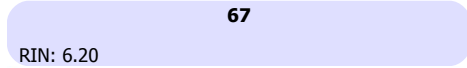
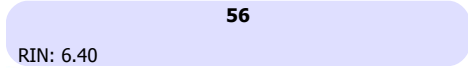
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
2		✓	RIN: 5.90	
23		✓	RIN: 4.60	
26		✓	RIN: 5.80	
27		✓	RIN: 5.90	
34		✓	RIN: 5.90	
44		✓	RIN: 5.70	
50		✓	RIN: 6.90	
56		✓	RIN: 6.40	
67		✓	RIN: 6.20	
75		✓	RIN: 6.10	
90		✓	RIN:5	
91		✓	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\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

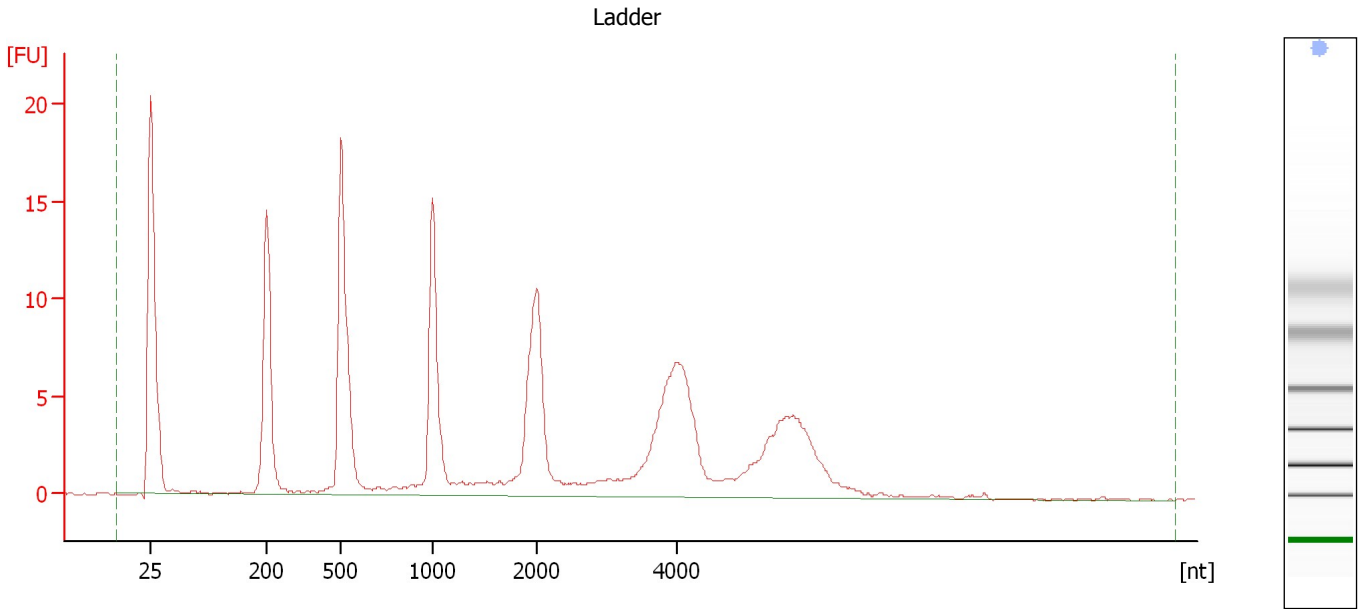
Ladder

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\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary



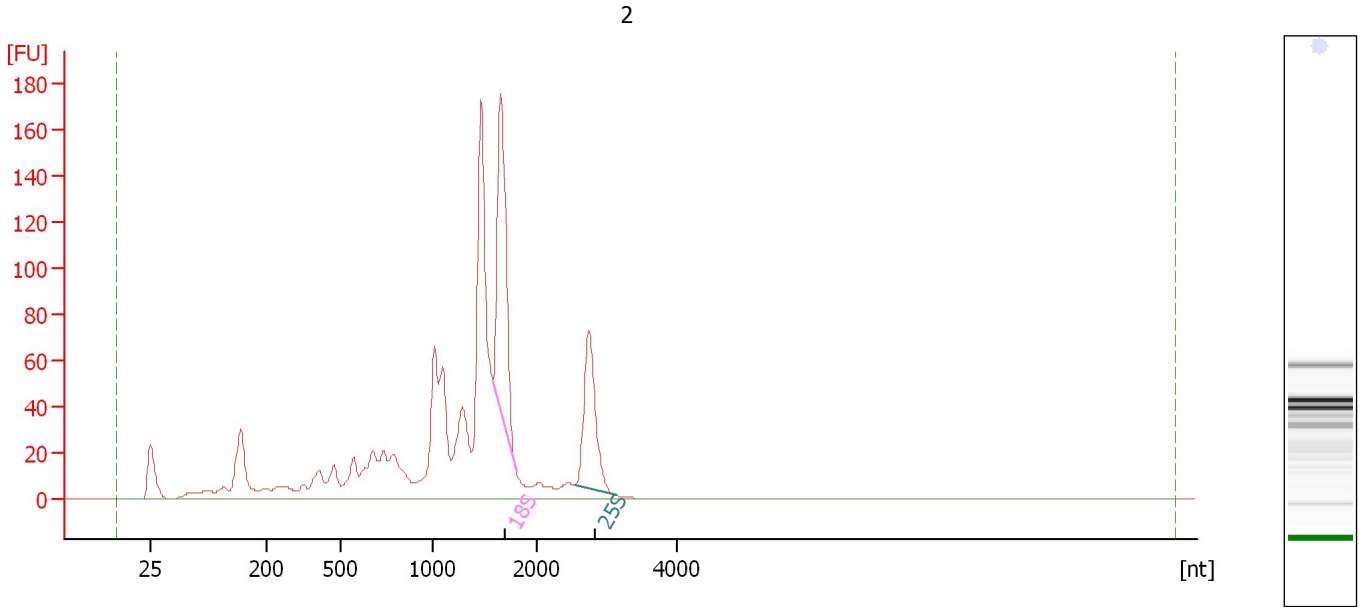
Overall Results for Ladder

RNA Area:	171.6	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\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 2

RNA Area: 1,238.7 RNA Integrity Number (RIN): 5.9 (B.02.08)
RNA Concentration: 1,083 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 5.90

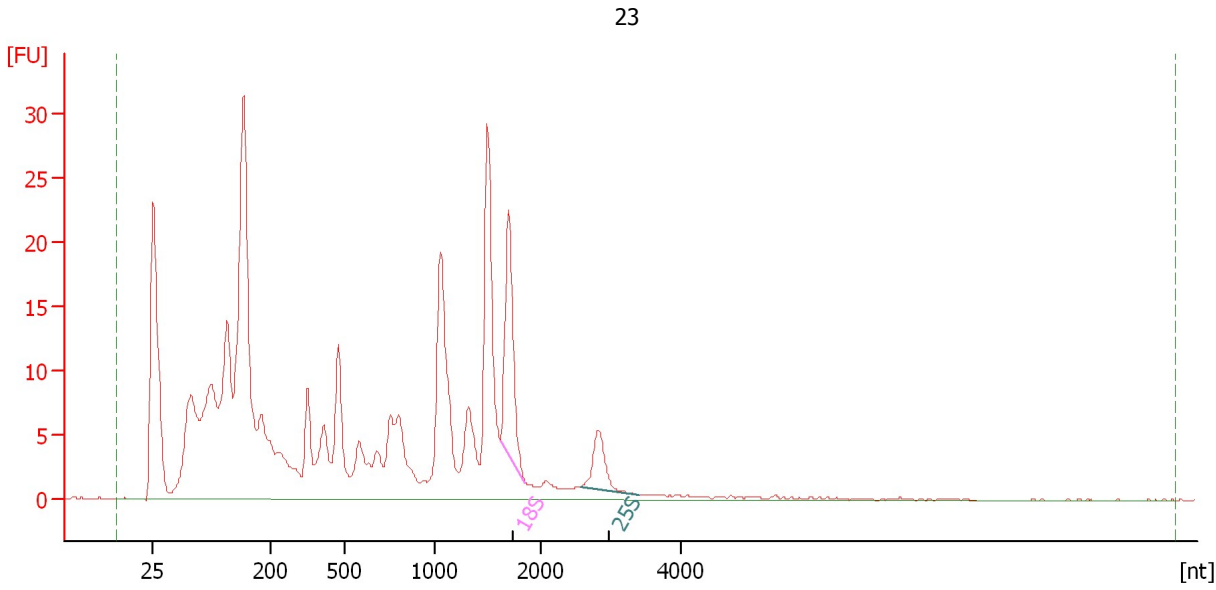
Fragment table for sample 1 : 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,581	1,806	170.3	13.7
25S	2,534	3,145	102.5	8.3

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 23

RNA Area:	386.8	RNA Integrity Number (RIN):	4.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	338 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.3	Result Flagging Label:	RIN: 4.60

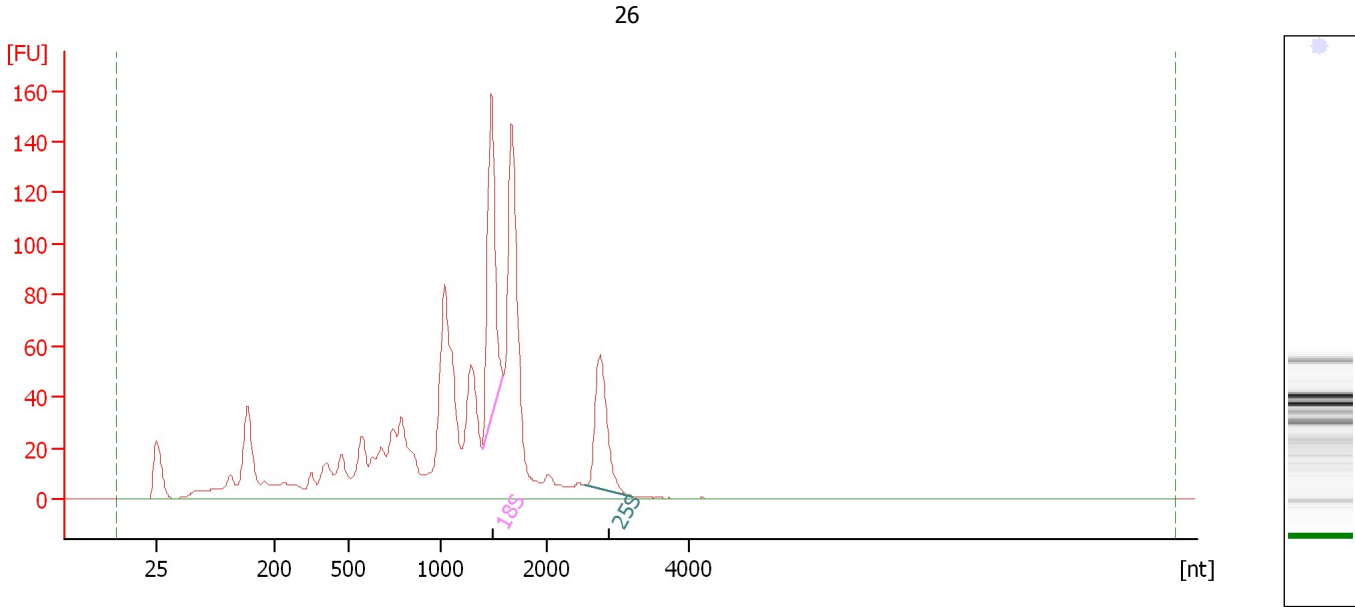
Fragment table for sample 2 : 23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	1,850	21.7	5.6
25S	2,566	3,387	7.1	1.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 26

RNA Area: 1,321.5 RNA Integrity Number (RIN): 5.8 (B.02.08)
RNA Concentration: 1,155 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 5.80

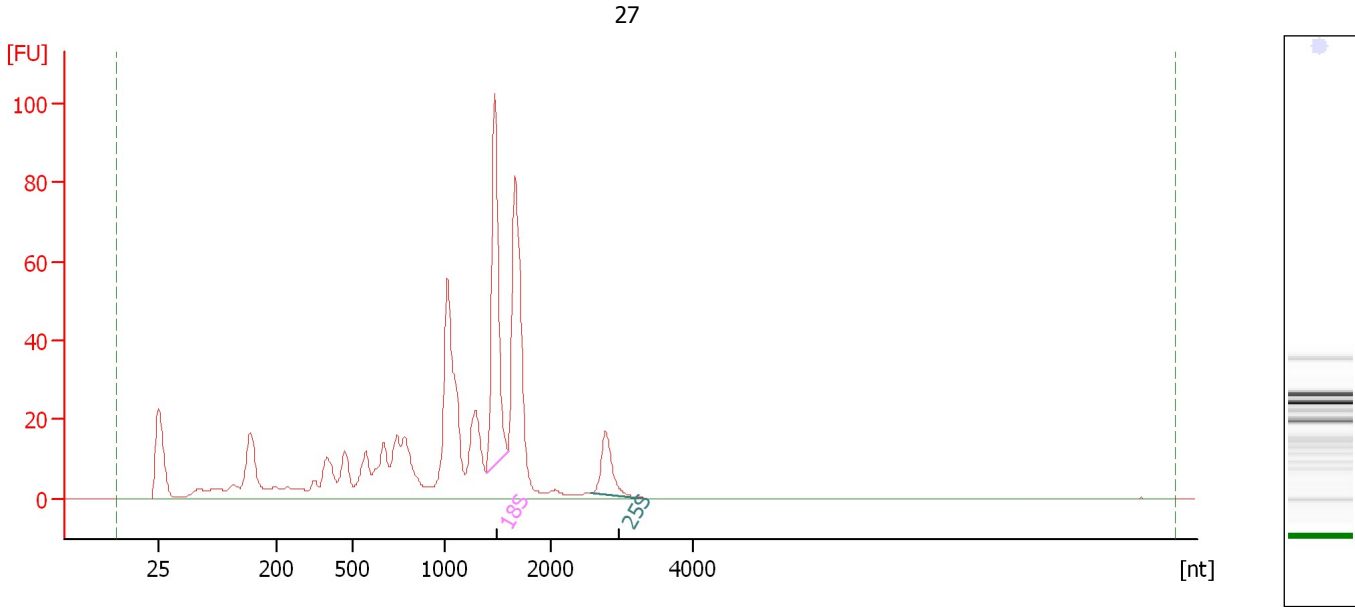
Fragment table for sample 3 : 26

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,392	1,593	136.1	10.3
25S	2,538	3,202	80.6	6.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 27

RNA Area: 627.7 RNA Integrity Number (RIN): 5.9 (B.02.08)
RNA Concentration: 549 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.2 Result Flagging Label: RIN: 5.90

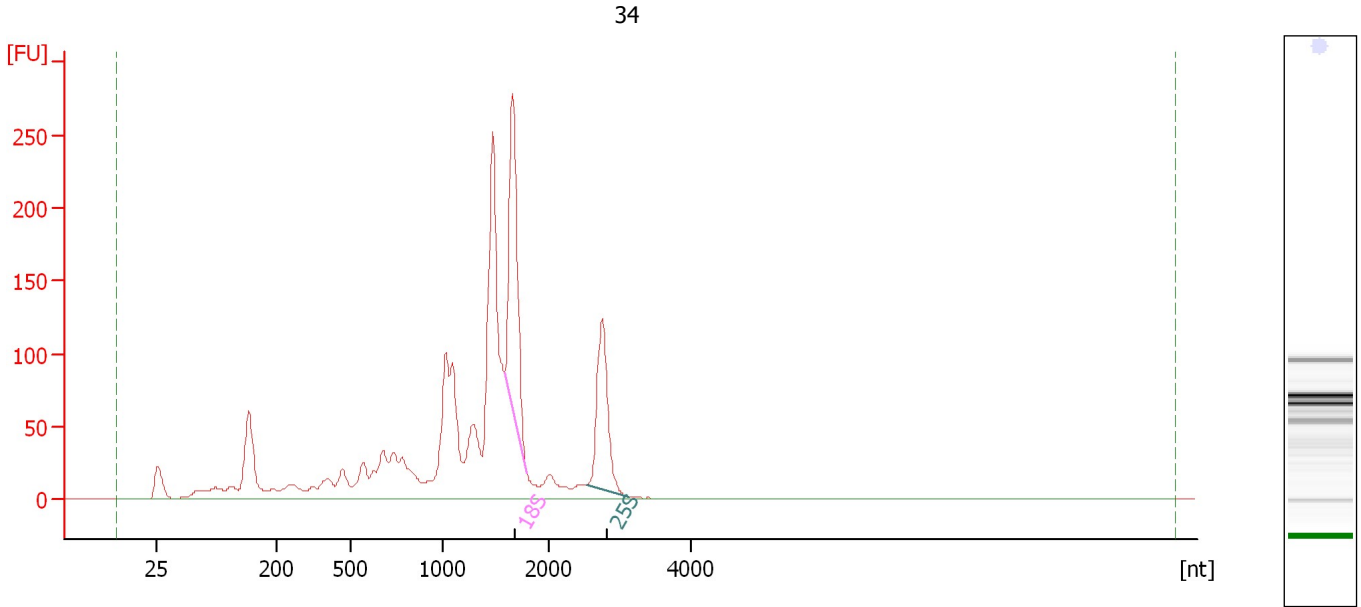
Fragment table for sample 4 : 27

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,397	1,598	94.9	15.1
25S	2,555	3,336	22.7	3.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 34

RNA Area: 1,908.1 RNA Integrity Number (RIN): 5.9 (B.02.08)
RNA Concentration: 1,668 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 5.90

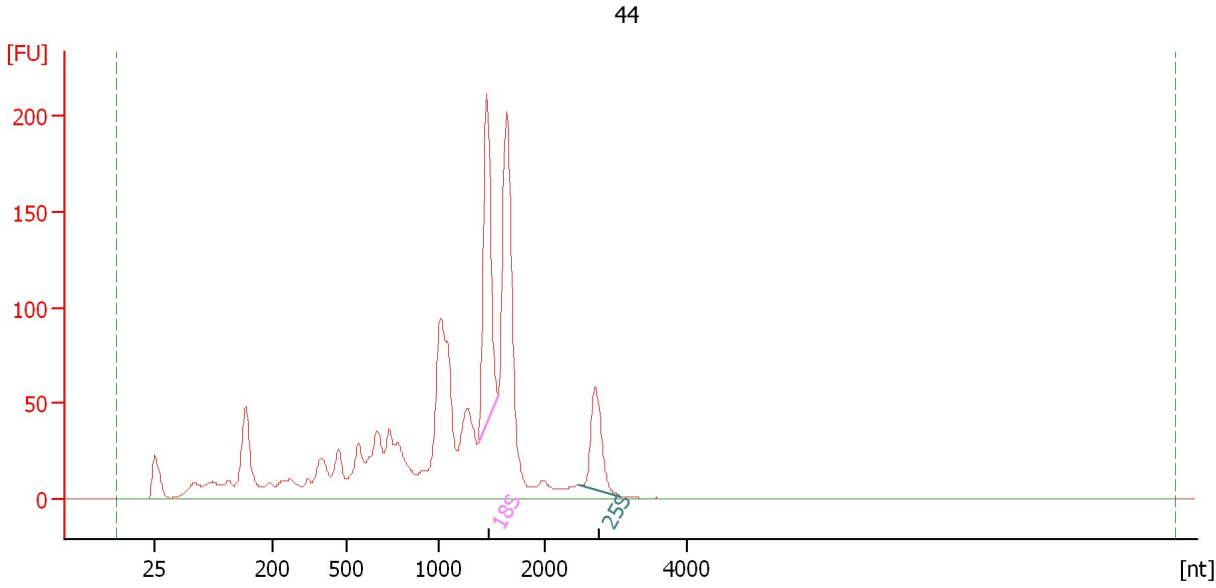
Fragment table for sample 5 : 34

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,797	254.8	13.4
25S	2,524	3,142	158.7	8.3

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 44

RNA Area: 1,658.3 RNA Integrity Number (RIN): 5.7 (B.02.08)
RNA Concentration: 1,450 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.4 Result Flagging Label: RIN: 5.70

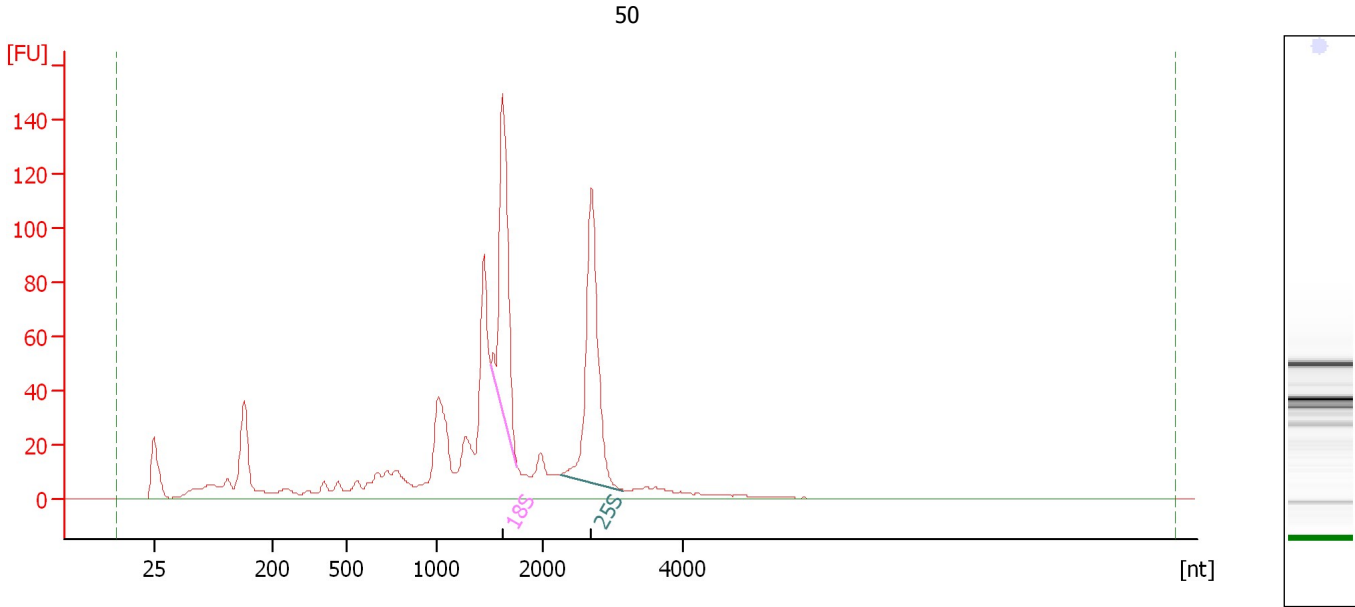
Fragment table for sample 6 : 44

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,369	1,561	179.9	10.8
25S	2,477	3,067	74.3	4.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 50

RNA Area: 1,026.6 RNA Integrity Number (RIN): 6.9 (B.02.08)
RNA Concentration: 898 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 6.90

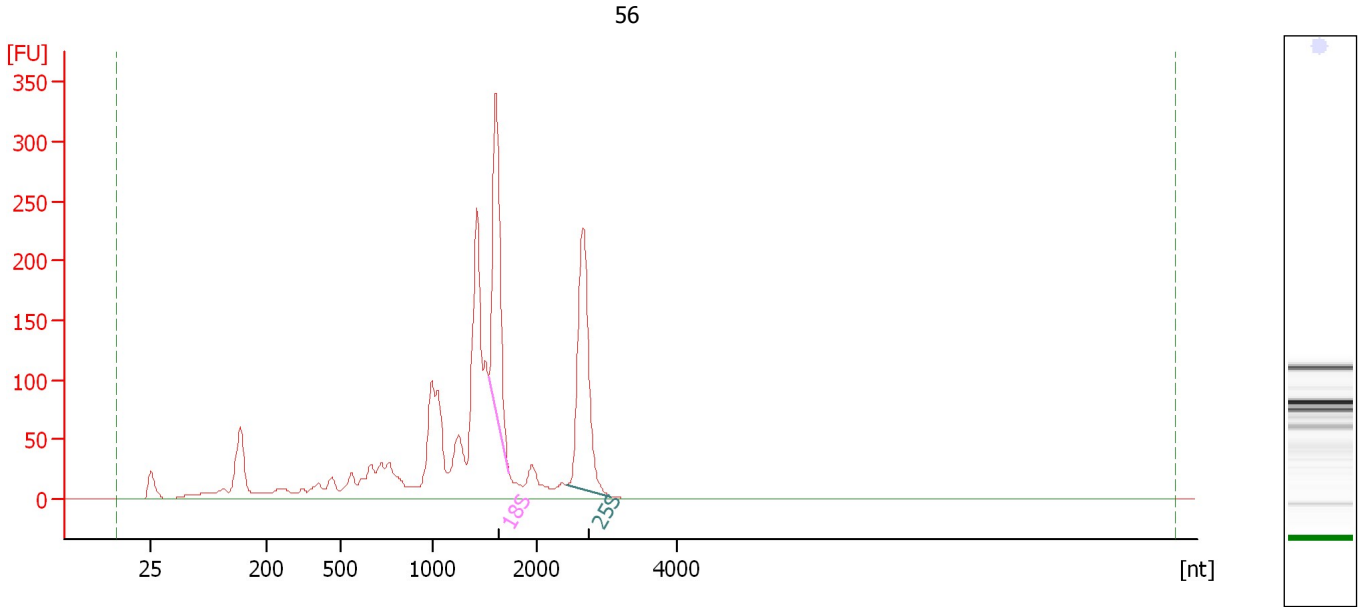
Fragment table for sample 7 : 50

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,507	1,761	139.7	13.6
25S	2,249	3,143	168.0	16.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 56

RNA Area:	2,097.9	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	1,834 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.0	Result Flagging Label:	RIN: 6.40

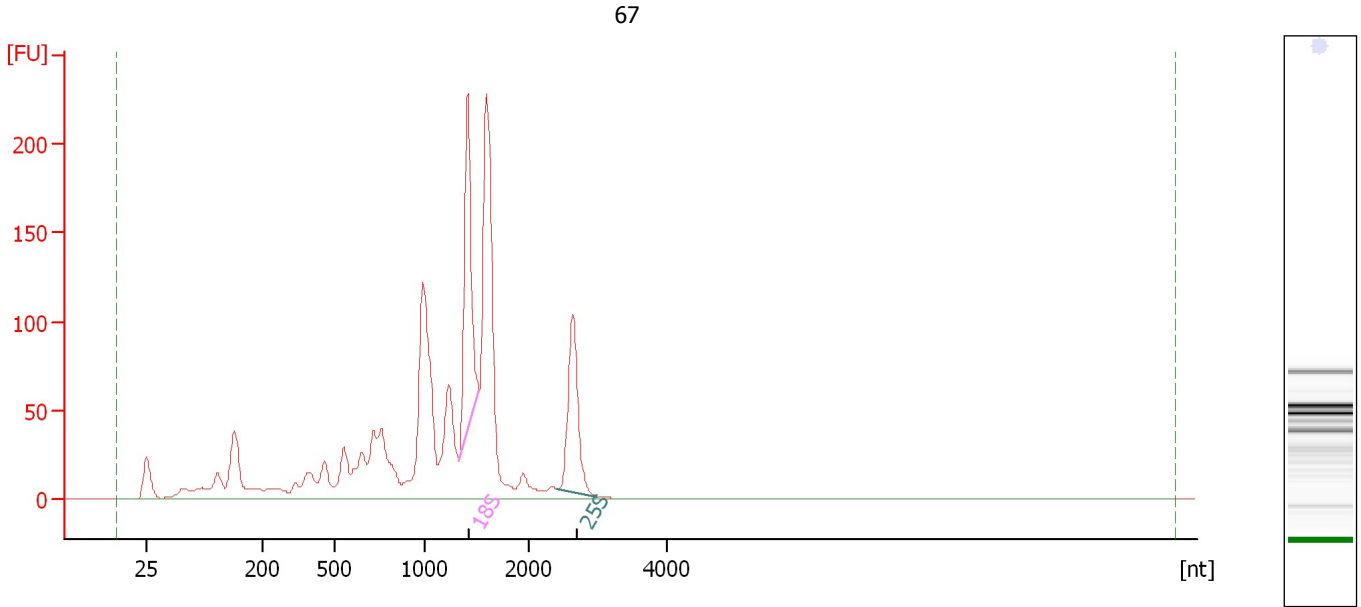
Fragment table for sample 8 : 56

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,540	1,734	298.1	14.2
25S	2,427	3,068	305.7	14.6

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
 Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 67

RNA Area:	1,652.5	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	1,445 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.7	Result Flagging Label:	RIN: 6.20

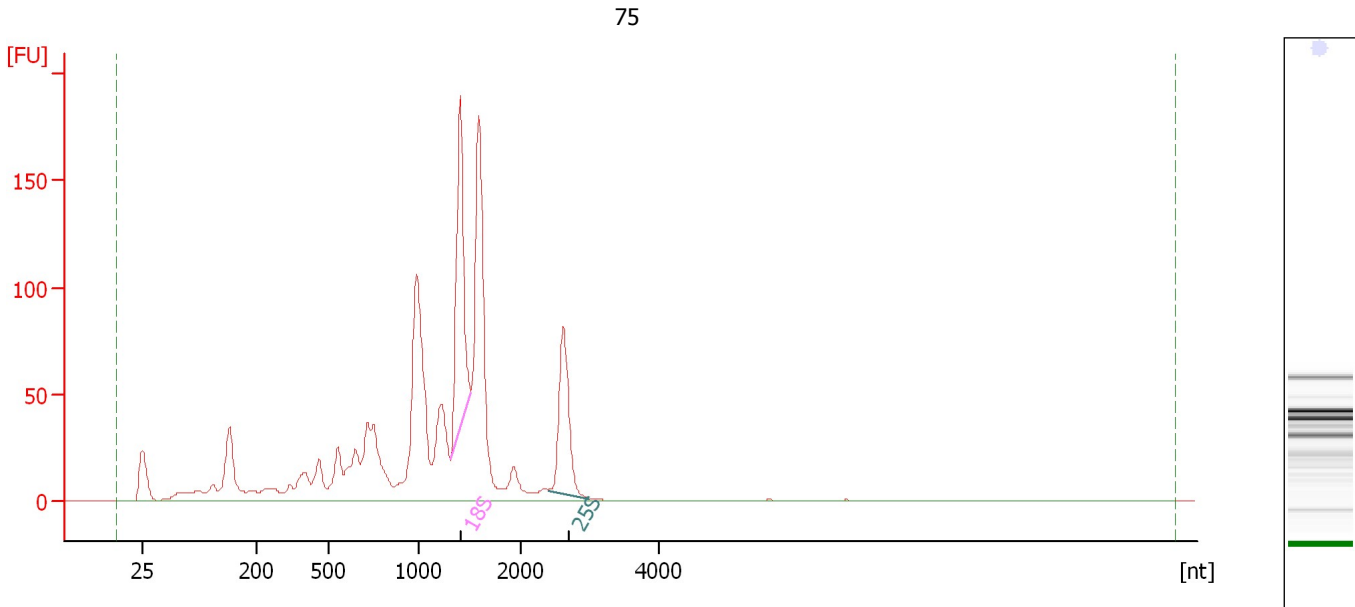
Fragment table for sample 9 : 67

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,324	1,520	194.7	11.8
25S	2,407	2,977	132.1	8.0

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
 Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 75

RNA Area:	1,379.9	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	1,206 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.6	Result Flagging Label:	RIN: 6.10

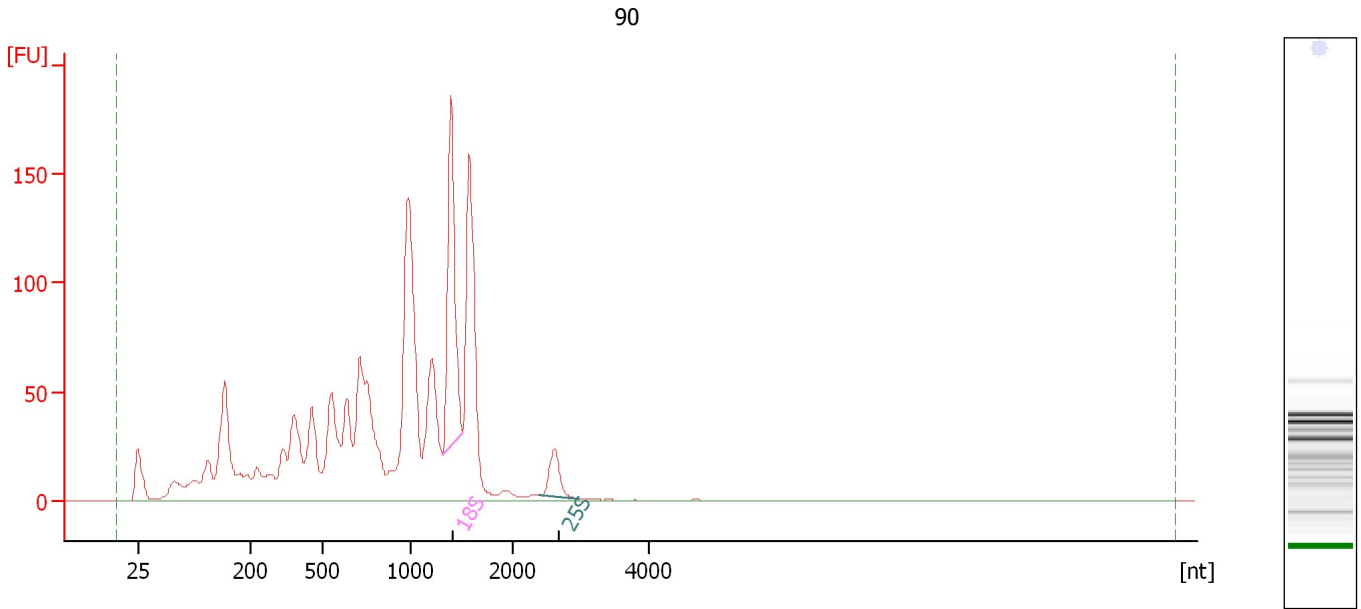
Fragment table for sample 10 : 75

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,322	1,519	164.1	11.9
25S	2,402	2,993	100.3	7.3

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 90

RNA Area: 1,742.4 RNA Integrity Number (RIN): 5 (B.02.08)
RNA Concentration: 1,523 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.2 Result Flagging Label: RIN:5

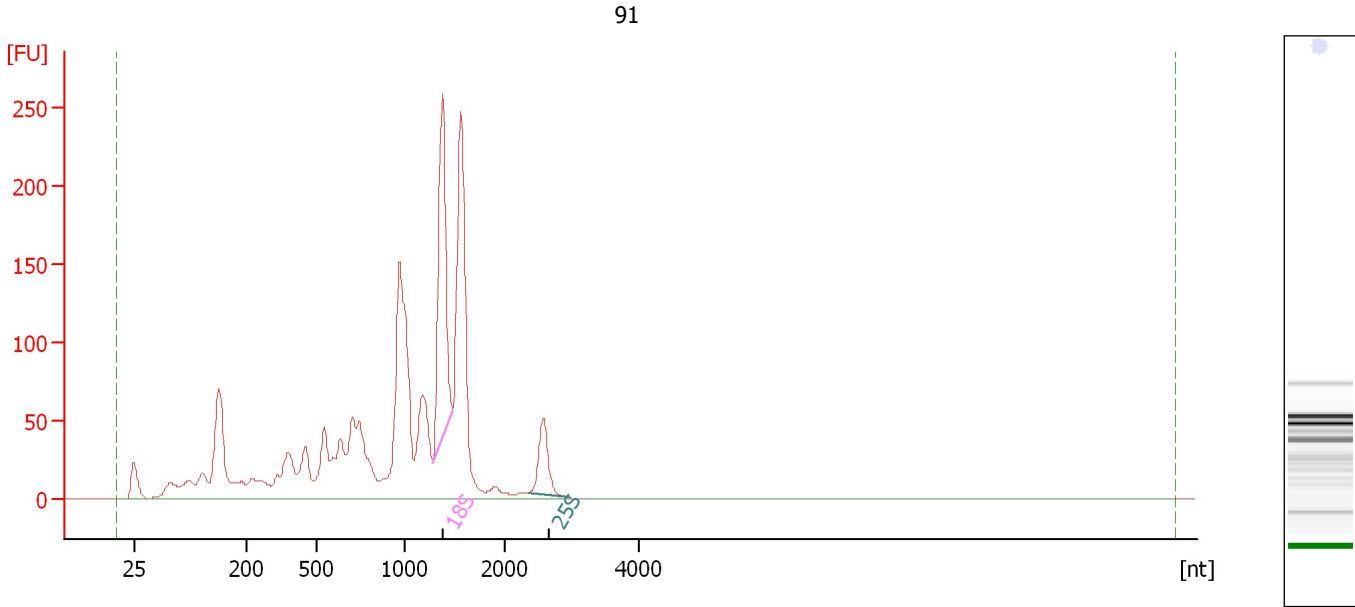
Fragment table for sample 11 : 90

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,309	1,498	173.6	10.0
25S	2,365	2,962	29.9	1.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 91

RNA Area: 2,014.0 RNA Integrity Number (RIN): 5.6 (B.02.08)
RNA Concentration: 1,761 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.3 Result Flagging Label: RIN: 5.60

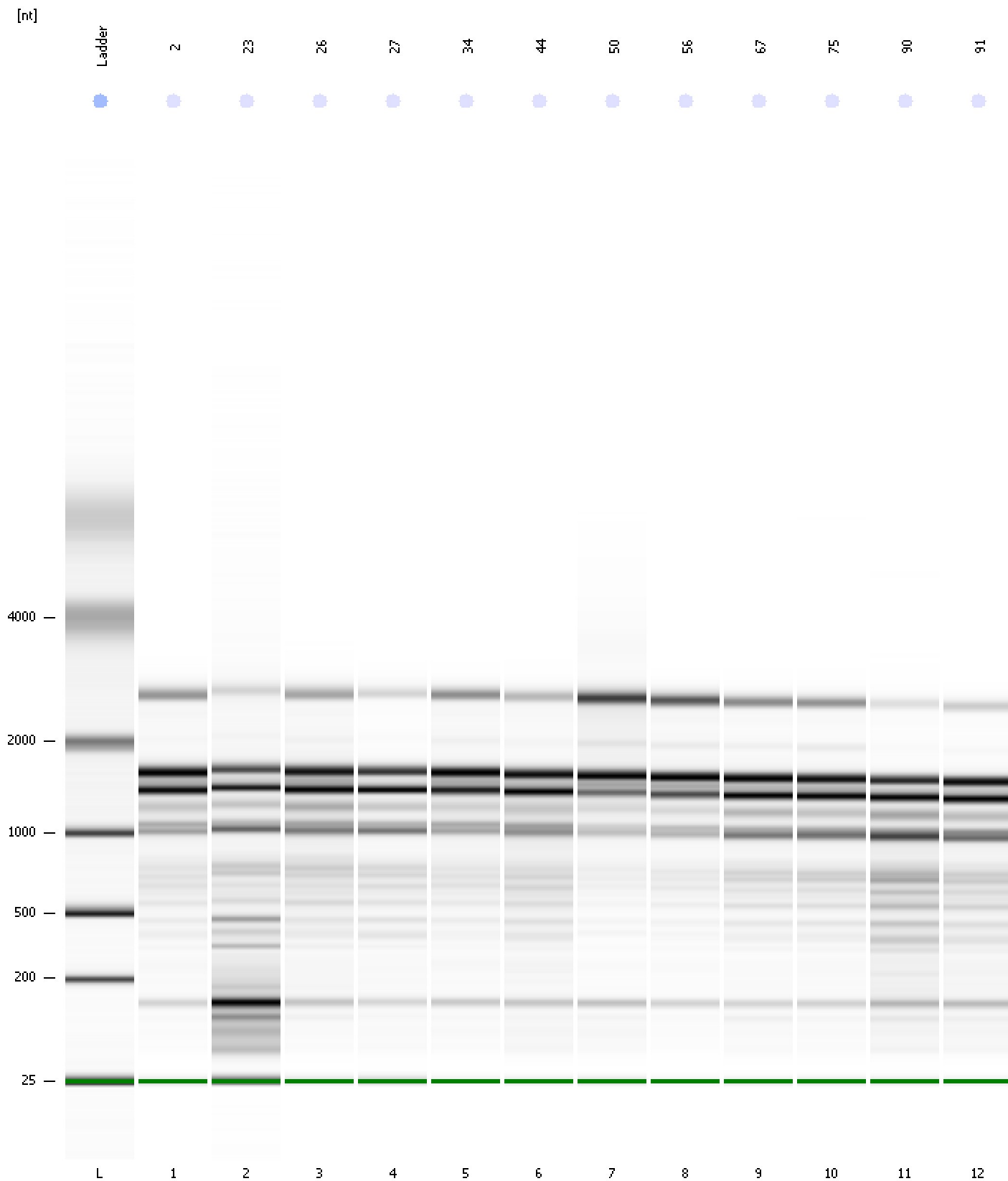
Fragment table for sample 12 : 91

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,286	1,487	241.8	12.0
25S	2,344	2,931	64.8	3.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
Modified: 8/16/2019 3:17:15 PM

Gel Image



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-16\2019-08-16_001.xad

Created: 8/16/2019 2:44:32 PM
 Modified: 8/16/2019 3:17:15 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		8/16/2019 3:08:19 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\2019-08-16\2019-08-16_001.xad)		Instrument	Run		8/16/2019 2:44:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/16/2019 2:44:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/16/2019 2:44:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/16/2019 2:44:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/16/2019 2:44:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/16/2019 2:44:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/16/2019 2:44:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1