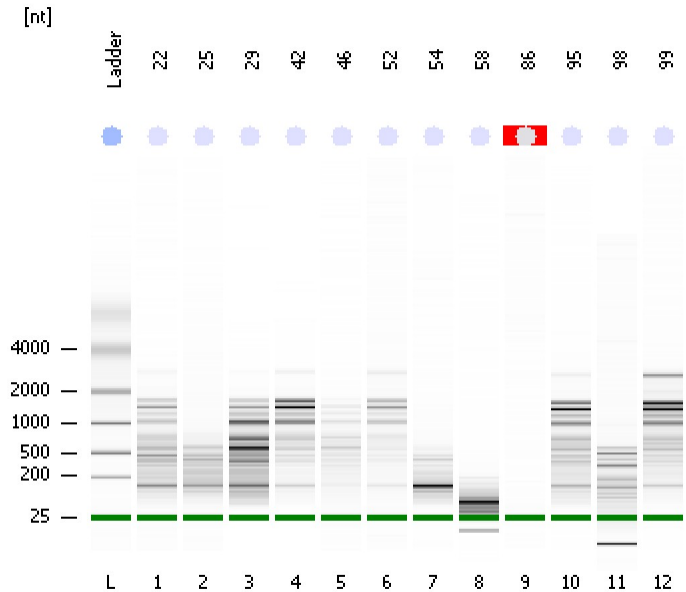


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

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\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
 Modified: 9/11/2019 10:45:56 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
22		✓	RIN: 2.20	
25		✓	RIN: 2.30	
29		✓	RIN: 1.60	
42		✓	RIN: 1.30	
46		✓	RIN:2	
52		✓	RIN: 2.20	
54		✓	RIN: 2.40	
58		✓	RIN: 2.60	
86		✓	RIN N/A	
95		✓	RIN: 1.80	
98		✓	RIN: 2.10	
99		✓	RIN:4	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 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

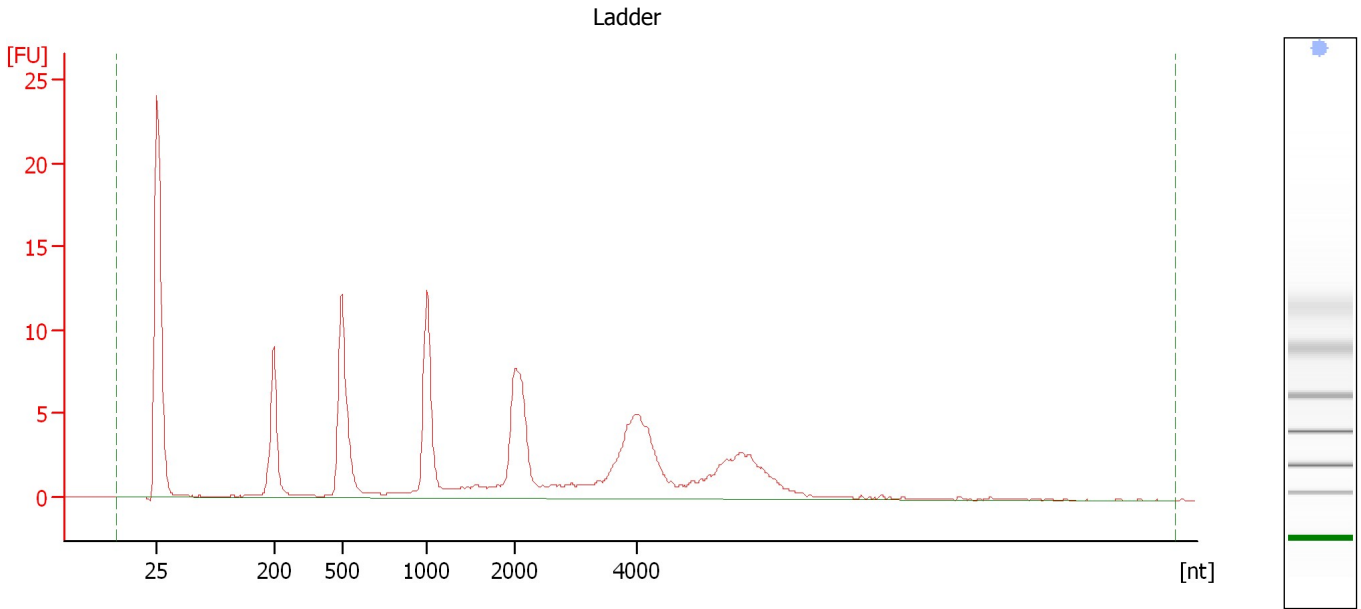
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary



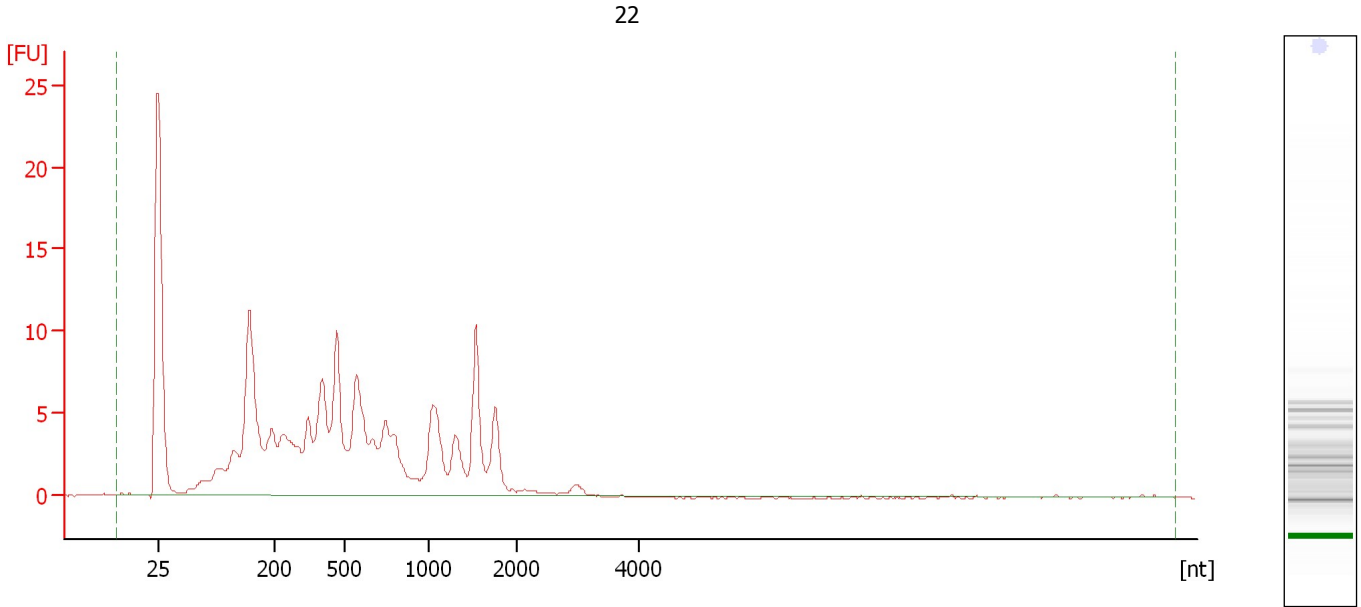
Overall Results for Ladder

RNA Area:	123.2	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\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



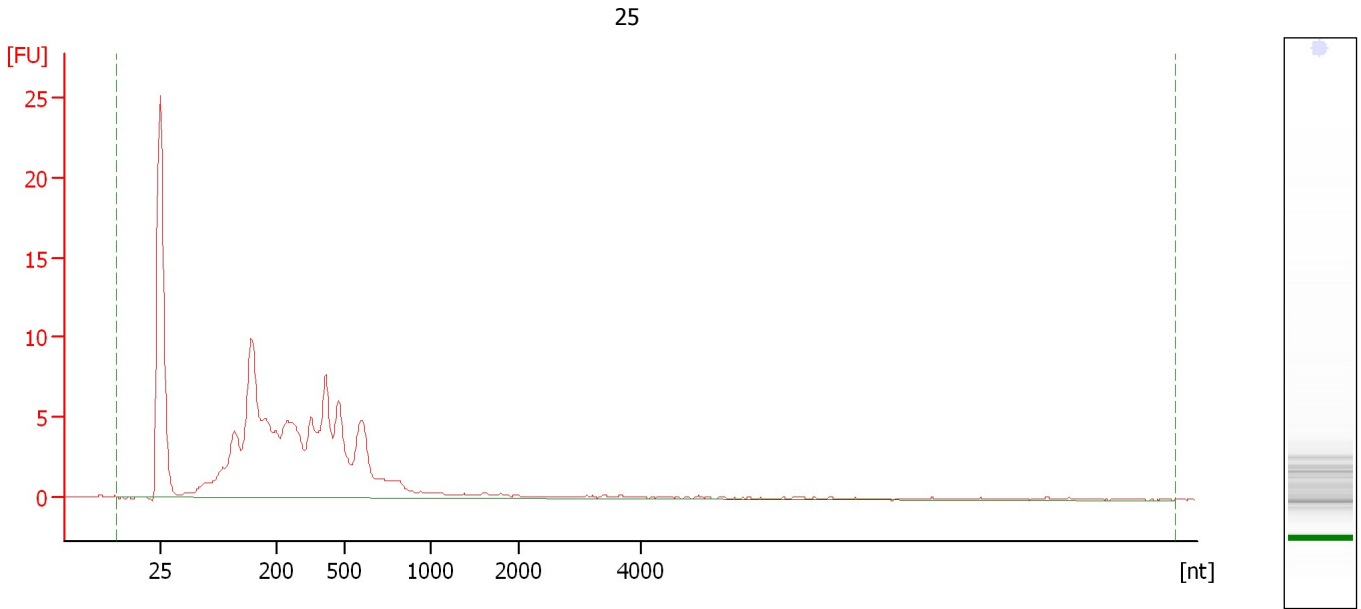
Overall Results for sample 1 : 22

RNA Area:	174.7	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	213 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



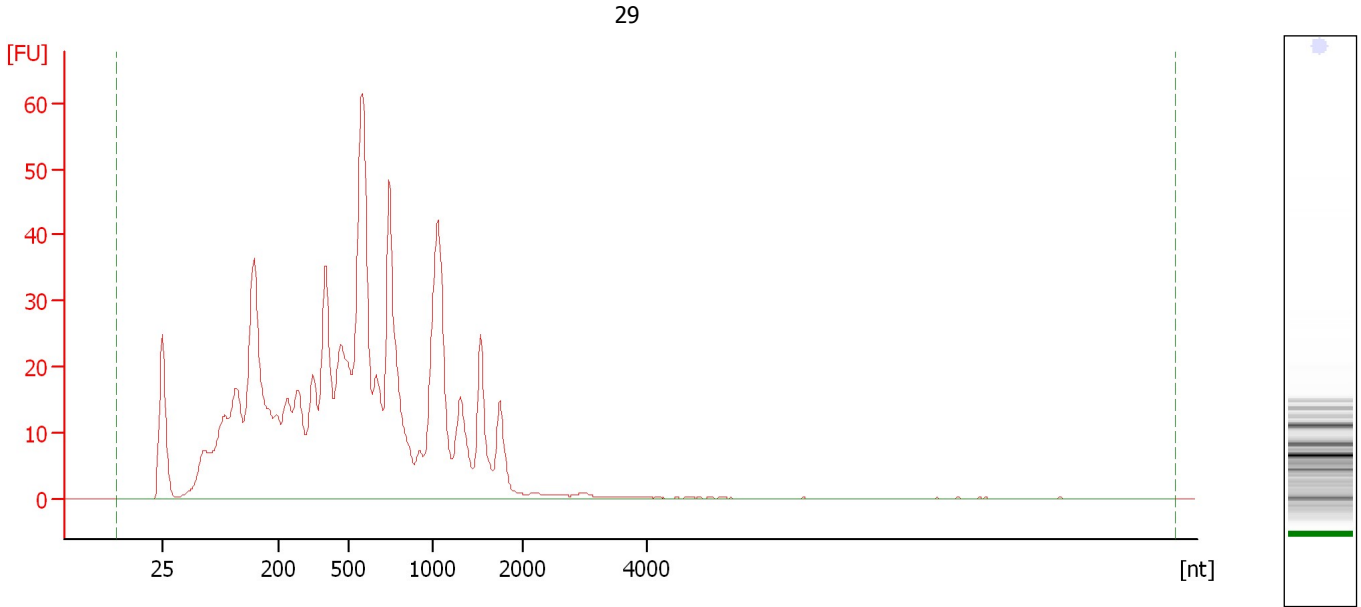
Overall Results for sample 2 : 25

RNA Area:	125.5	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	153 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



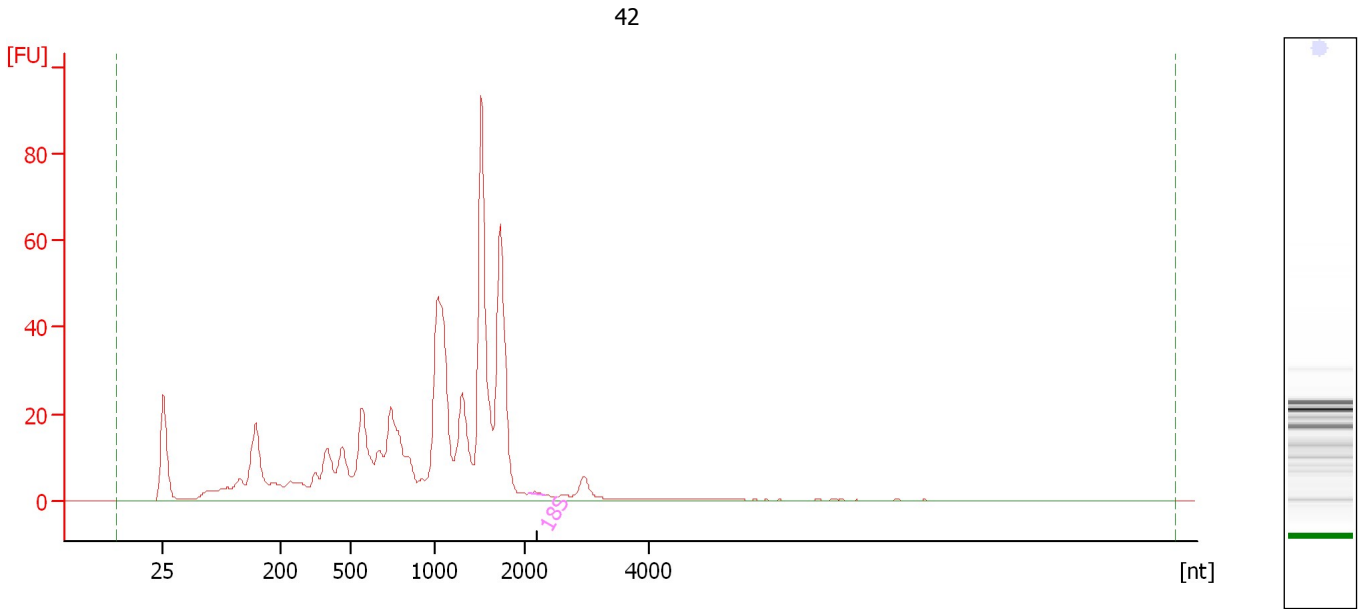
Overall Results for sample 3 : 29

RNA Area:	828.5	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	1,009 ng/ μ l	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.60

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 42

RNA Area:	615.0	RNA Integrity Number (RIN):	1.3 (B.02.08)
RNA Concentration:	749 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.30

Fragment table for sample 4 : 42

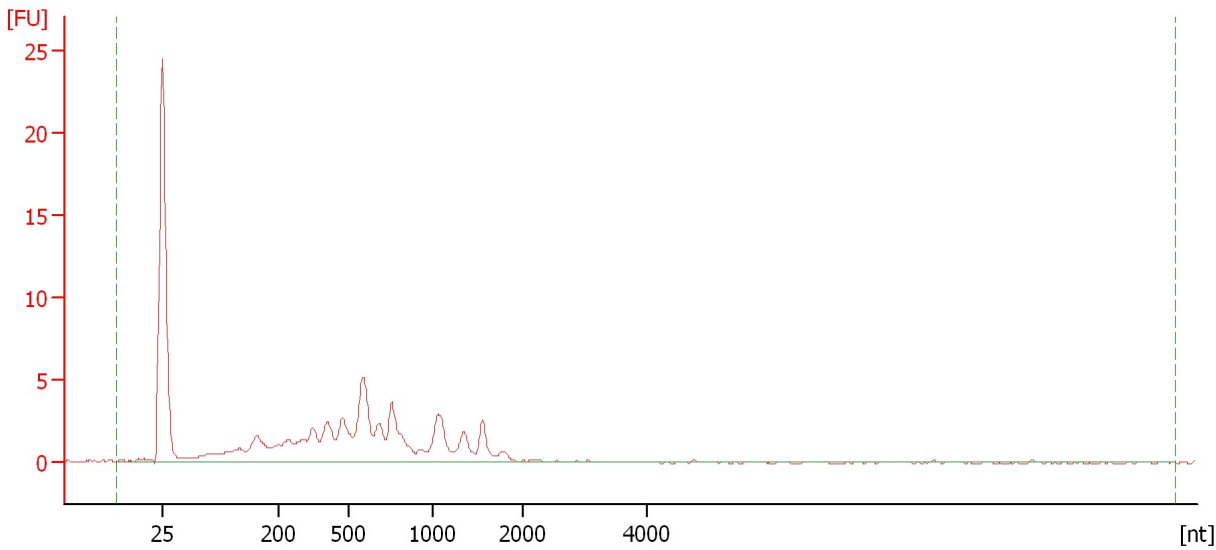
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,053	2,313	0.6	0.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...

46



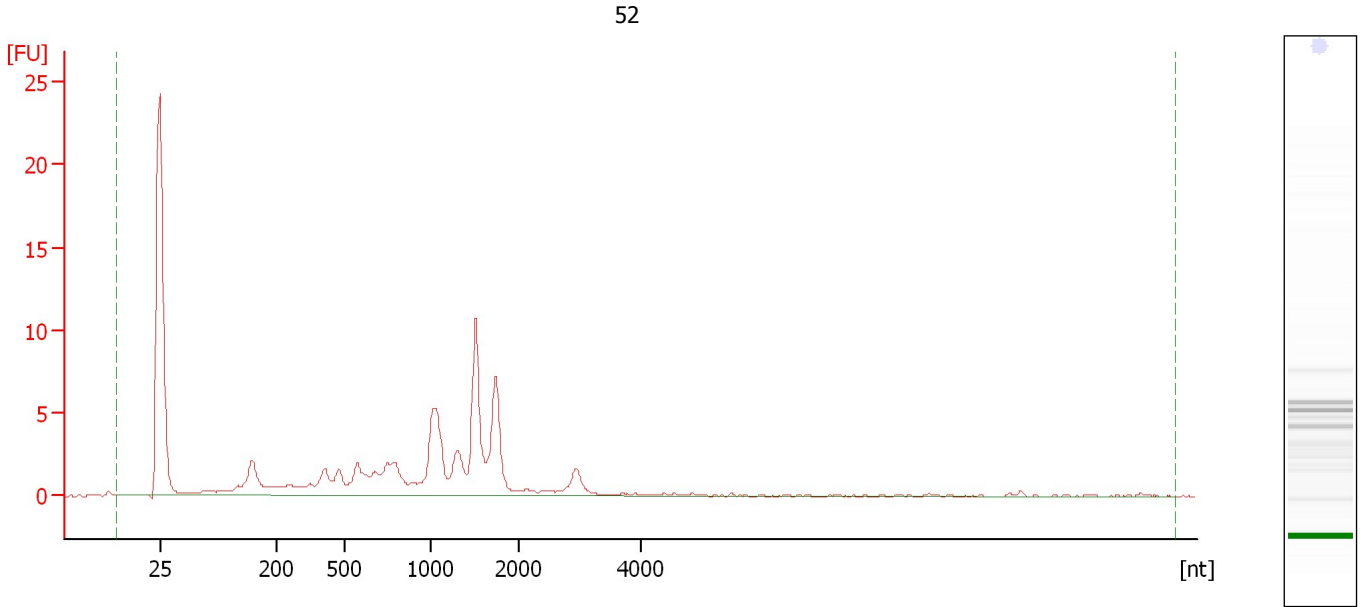
Overall Results for sample 5 : 46

RNA Area:	65.1	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	79 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



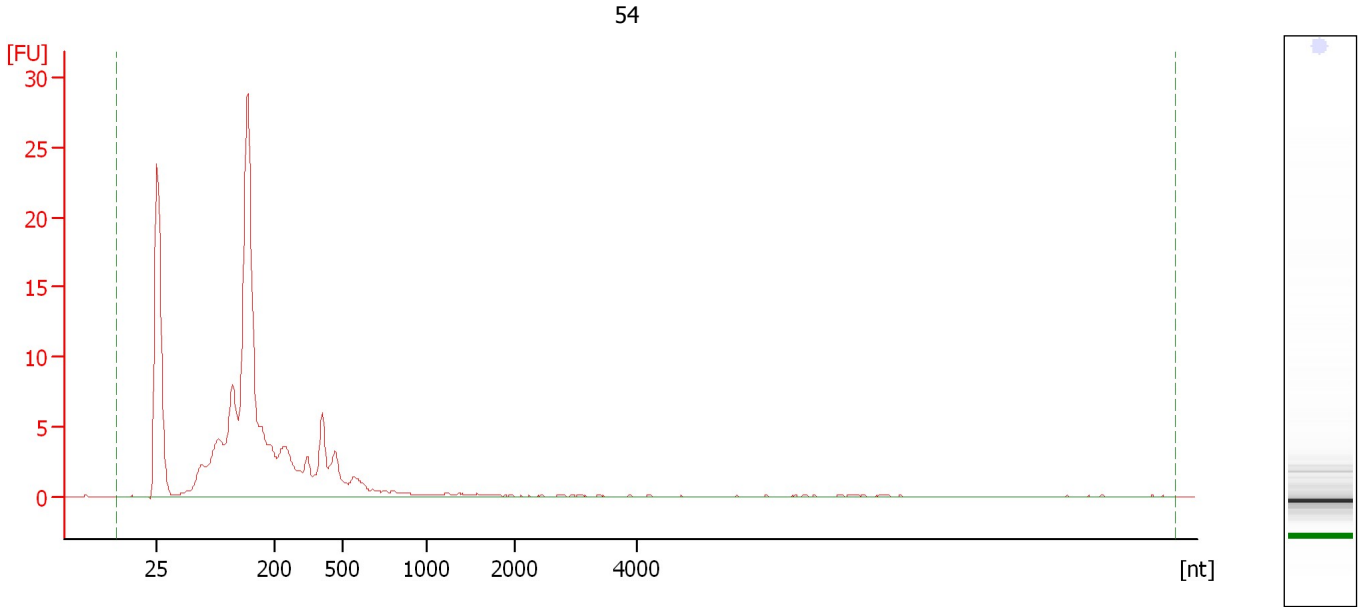
Overall Results for sample 6 : 52

RNA Area:	72.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	88 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



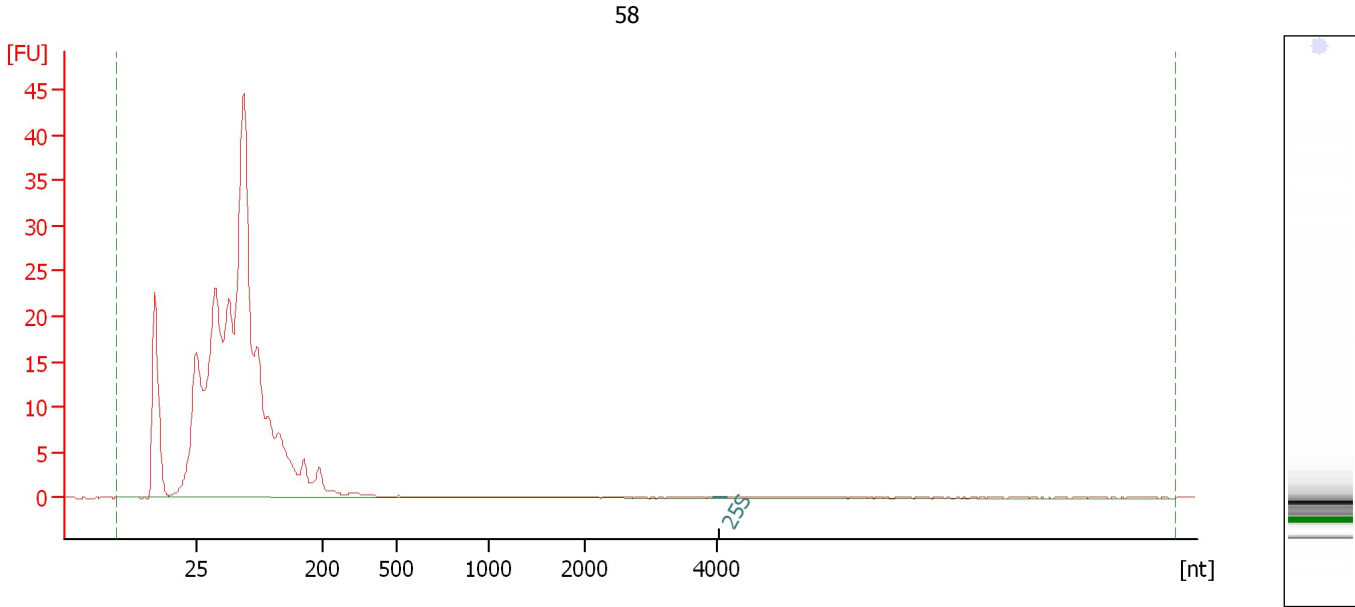
Overall Results for sample 7 : 54

RNA Area:	142.3	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	173 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 58

RNA Area:	332.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	404 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

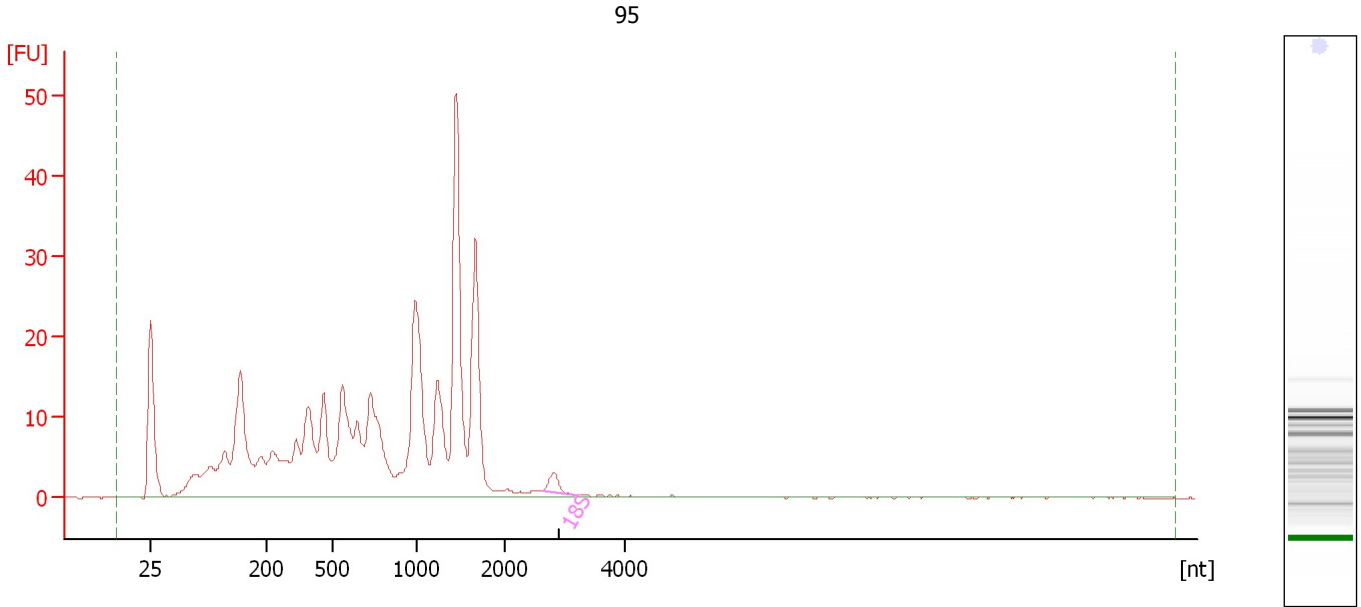
Fragment table for sample 8 : 58

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	3,939	4,165	0.1	0.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 95

RNA Area:	407.3	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	496 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.80

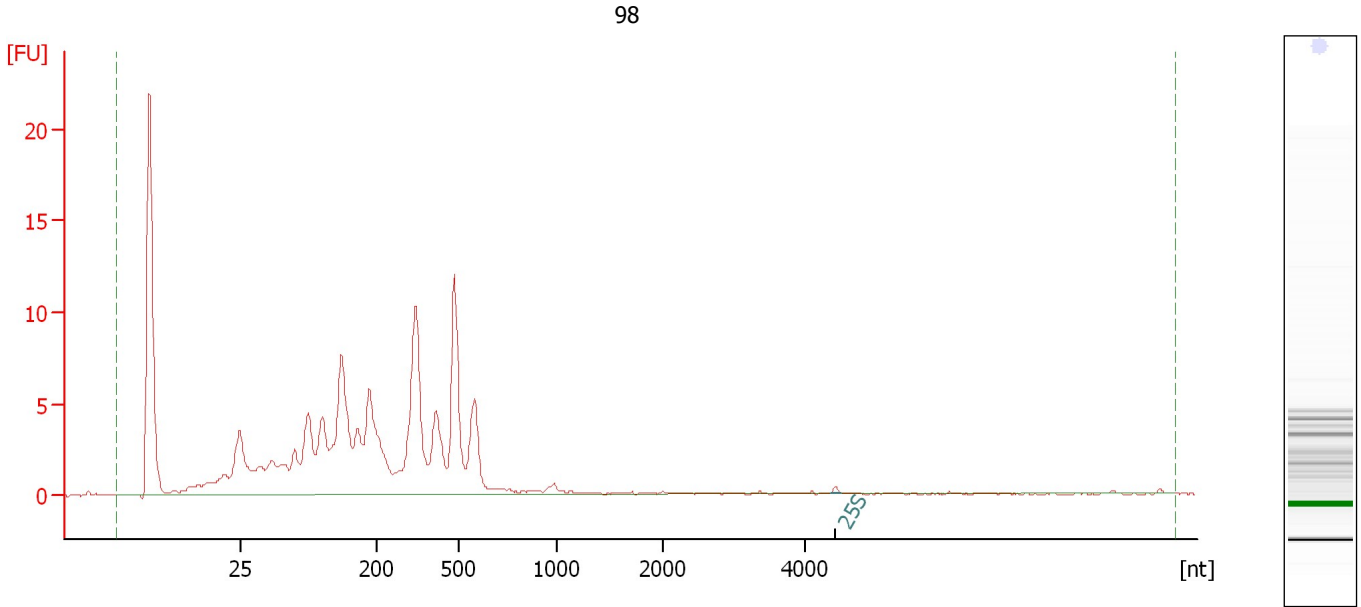
Fragment table for sample 10 : 95

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,635	3,186	3.3	0.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 98

RNA Area: 151.5 RNA Integrity Number (RIN): 2.1 (B.02.08)
RNA Concentration: 184 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 2.10

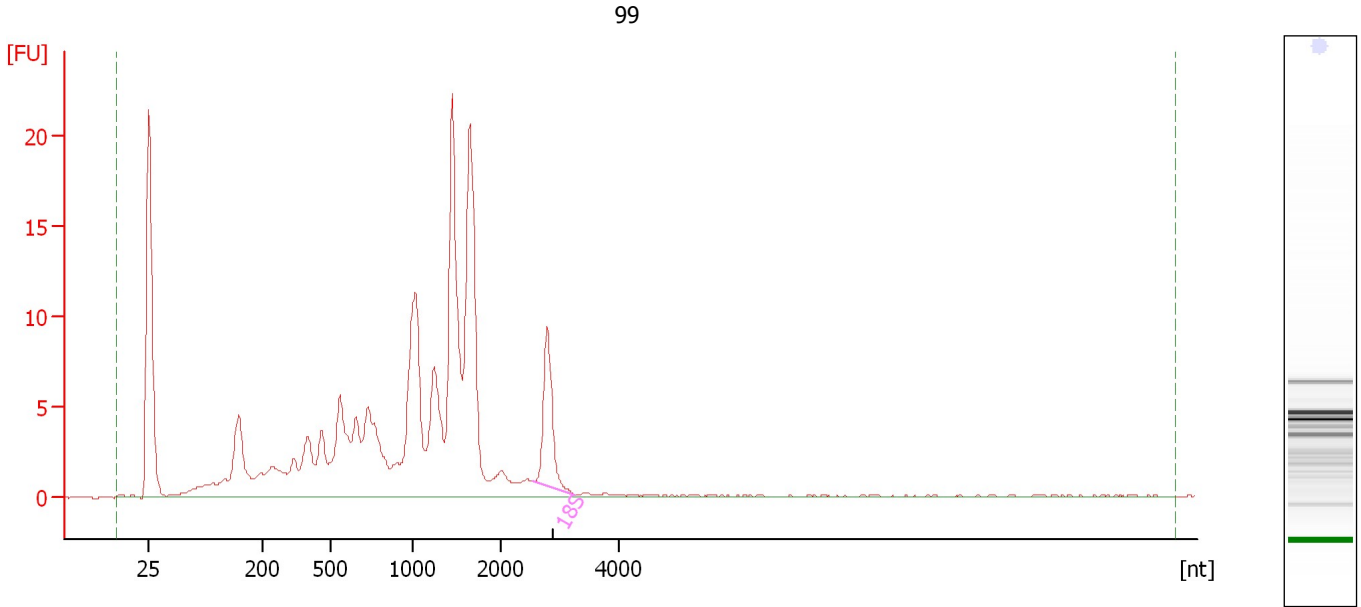
Fragment table for sample 11 : 98

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	4,360	4,493	0.1	0.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 99

RNA Area:	185.2	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	226 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN:4

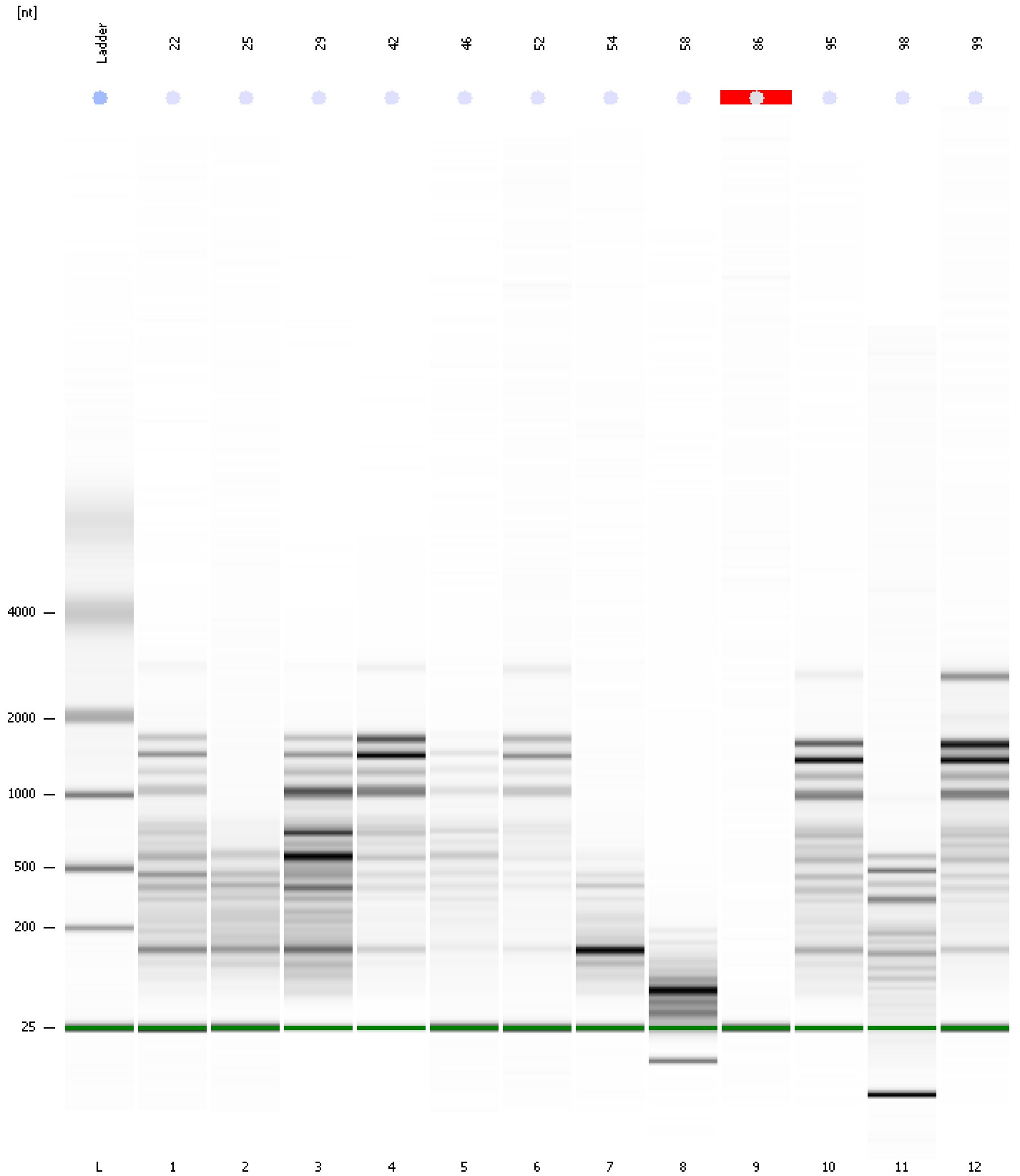
Fragment table for sample 12 : 99

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,558	3,238	10.3	5.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Gel Image

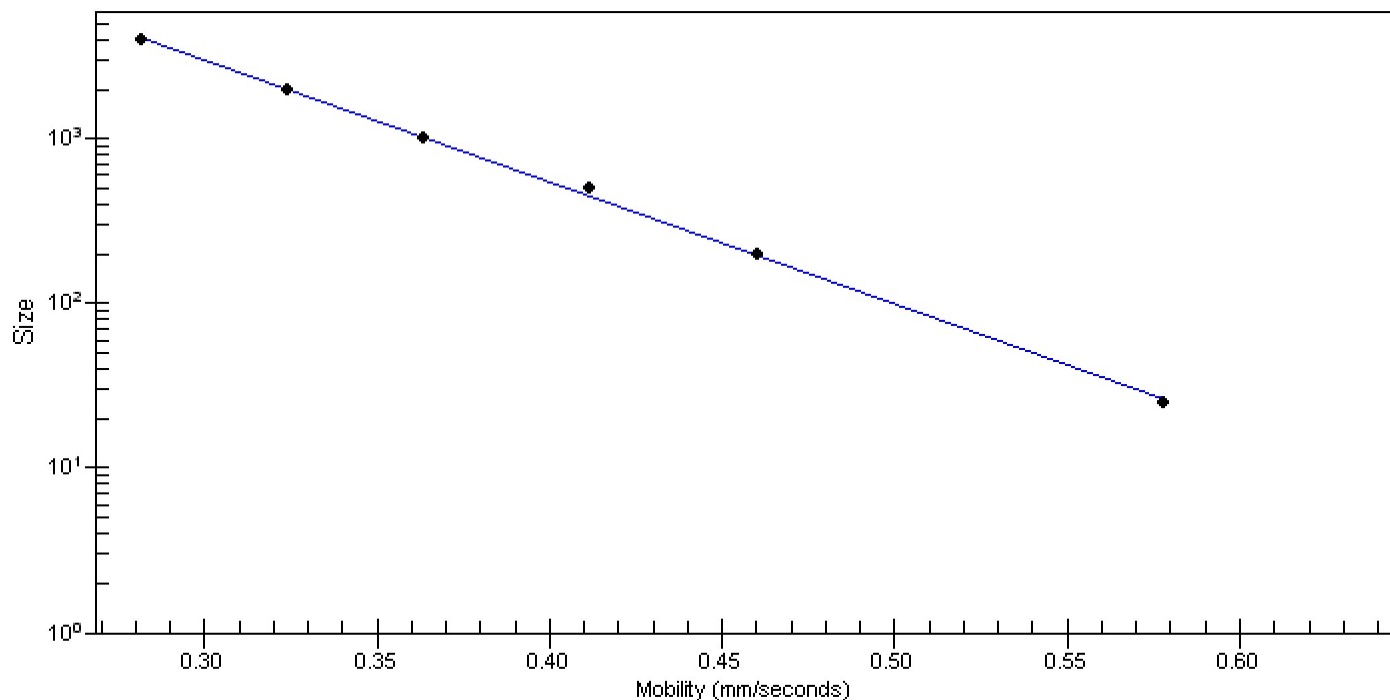


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
Modified: 9/11/2019 10:45:56 AM

Curves

Standard Curve



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad

Created: 9/11/2019 10:22:55 AM
 Modified: 9/11/2019 10:45:56 AM

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		9/11/2019 10:45:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_002.xad)		Instrument	Run		9/11/2019 10:22:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/11/2019 10:22:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/11/2019 10:22:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/11/2019 10:22:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/11/2019 10:22:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/11/2019 10:22:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/11/2019 10:22:55 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1