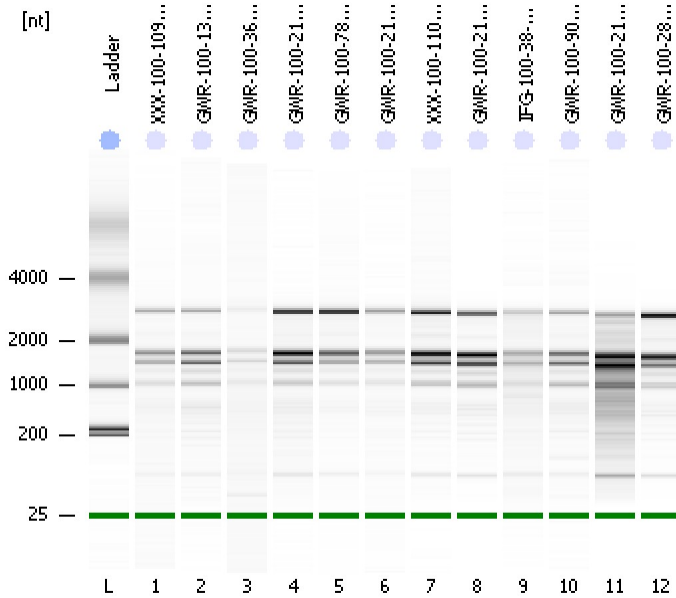


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 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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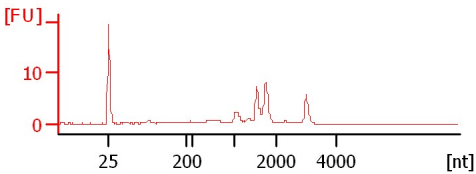
Chip Information:

Chip Lot #:

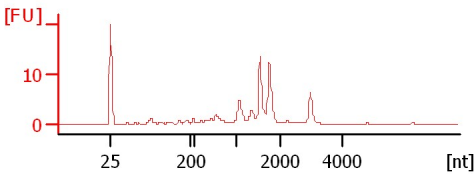
Reagent Kit Lot #:

Chip Comments:

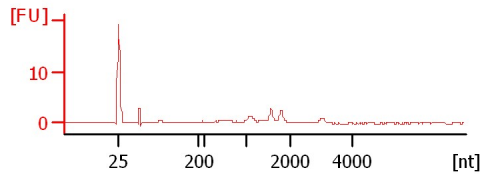
XXX-100-109-1-OW
RIN: 7.30



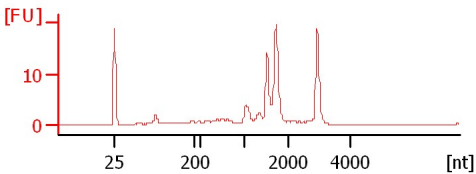
GWR-100-135-1-OW
RIN: 6.80



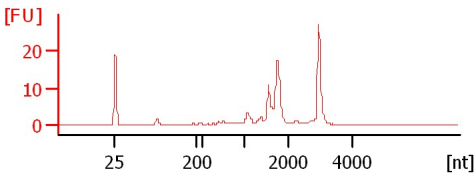
GWR-100-364-1-TW
RIN: 7.40



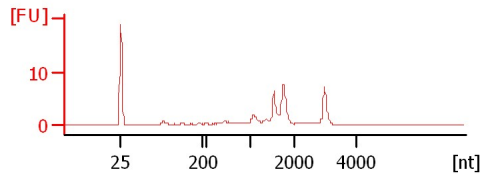
GWR-100-212-6-NW
RIN: 7.10



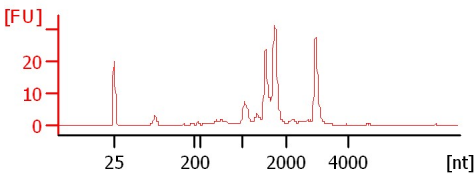
GWR-100-78-3-TW
RIN: 8



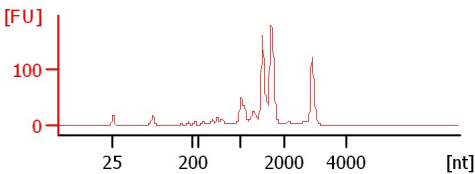
GWR-100-212-1-TW
RIN: 7.50



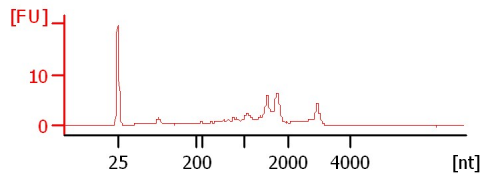
XXX-100-110-4-NW
RIN: 7



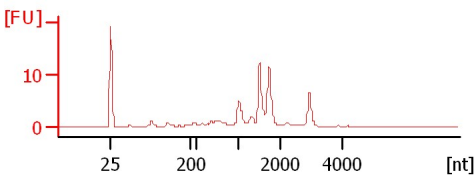
GWR-100-210-5-NW
RIN: 6.30



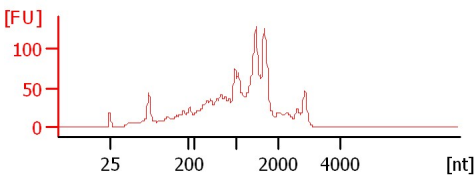
IFG-100-38-6-NW
RIN: 6.50



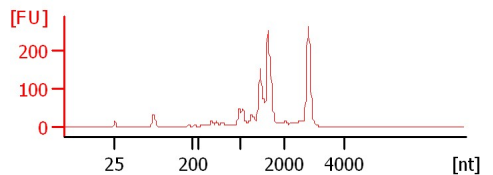
GWR-100-90-4-NW
RIN: 6.80



GWR-100-212-2-TW
RIN: 4.20



GWR-100-283-5-NW
RIN: 7



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
 Modified: 9/17/2018 1:56:29 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
XXX-100-109-1-OW		✓	RIN: 7.30	
GWR-100-135-1-OW		✓	RIN: 6.80	
GWR-100-364-1-TW		✓	RIN: 7.40	
GWR-100-212-6-NW		✓	RIN: 7.10	
GWR-100-78-3-TW		✓	RIN:8	
GWR-100-212-1-TW		✓	RIN: 7.50	
XXX-100-110-4-NW		✓	RIN:7	
GWR-100-210-5-NW		✓	RIN: 6.30	
IFG-100-38-6-NW		✓	RIN: 6.50	
GWR-100-90-4-NW		✓	RIN: 6.80	
GWR-100-212-2-TW		✓	RIN: 4.20	
GWR-100-283-5-NW		✓	RIN:7	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 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

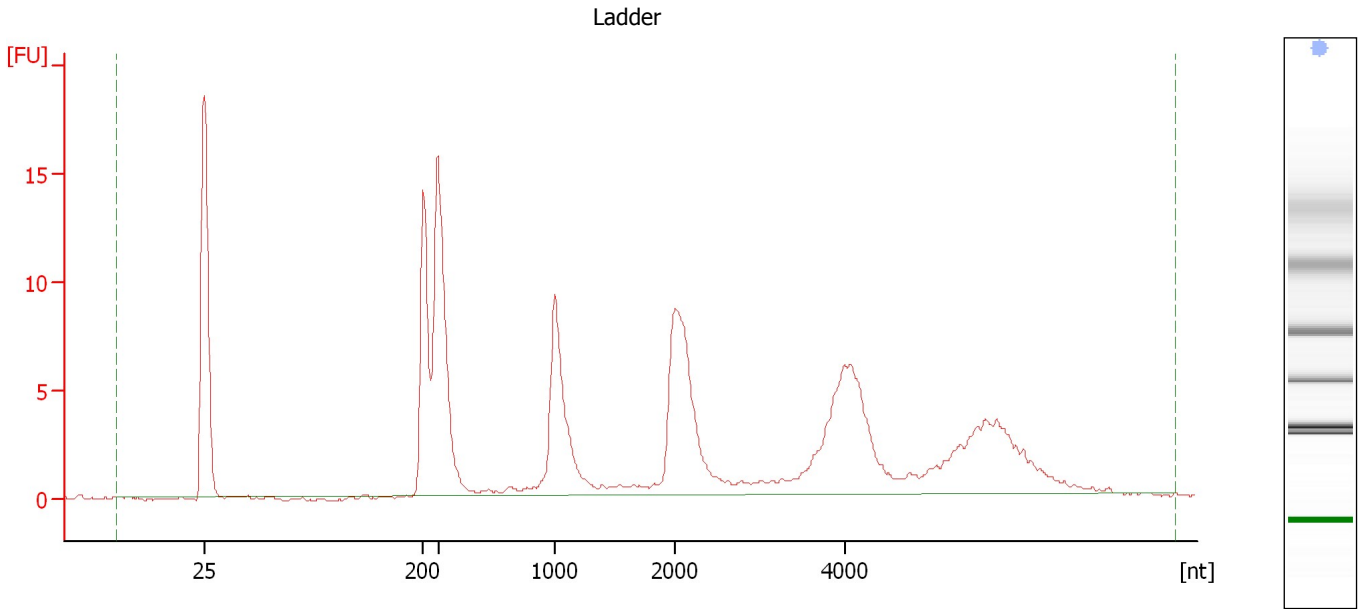
Ladder

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\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary



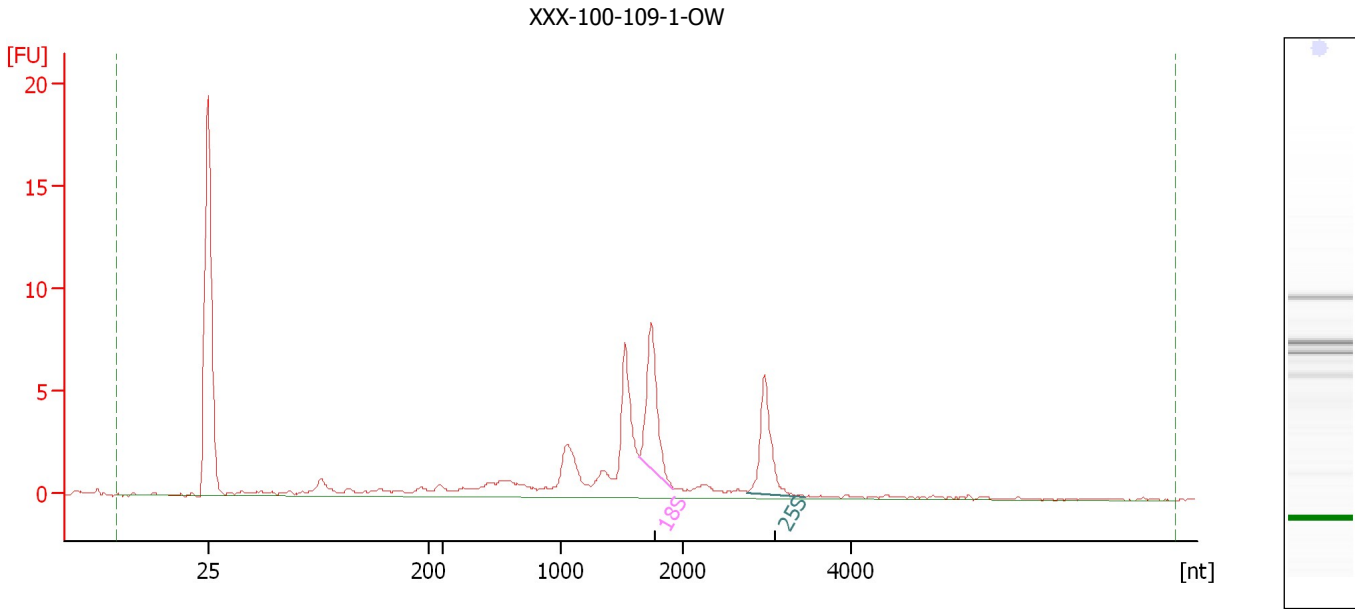
Overall Results for Ladder

RNA Area:	144.8	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : XXX-100-109-1-OW

RNA Area: 61.0 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 63 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 7.30

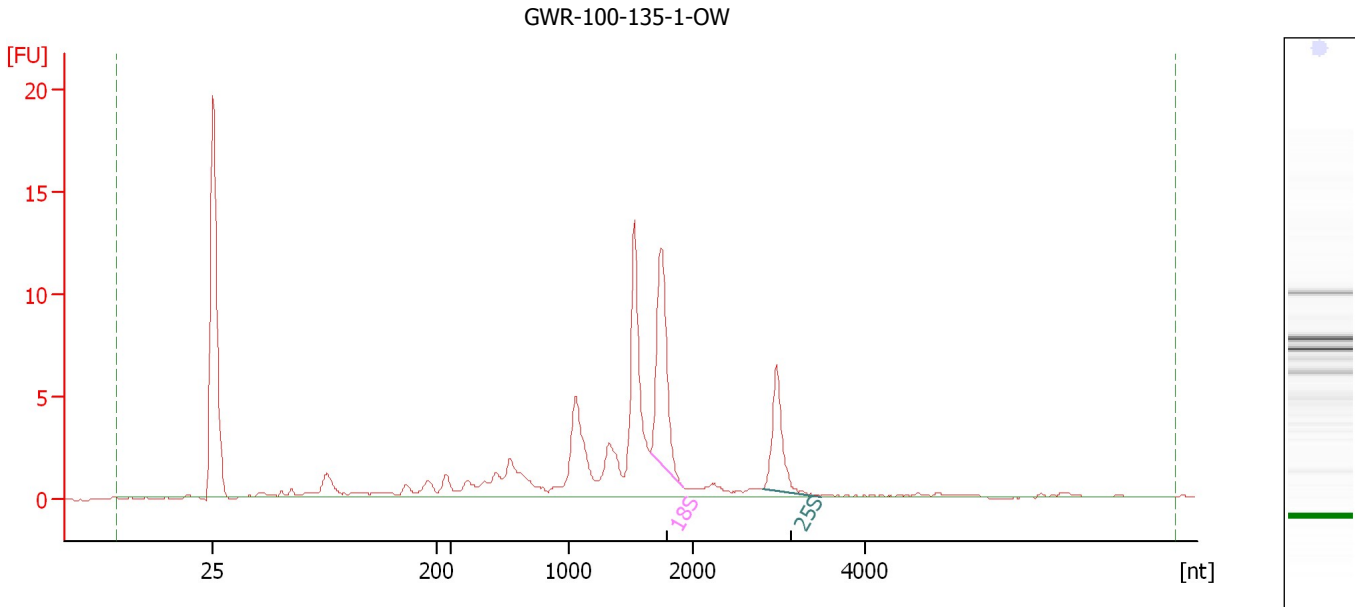
Fragment table for sample 1 : XXX-100-109-1-OW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,931	8.8	14.5
25S	2,769	3,448	6.8	11.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : GWR-100-135-1-OW

RNA Area: 76.8 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 80 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.5 Result Flagging Label: RIN: 6.80

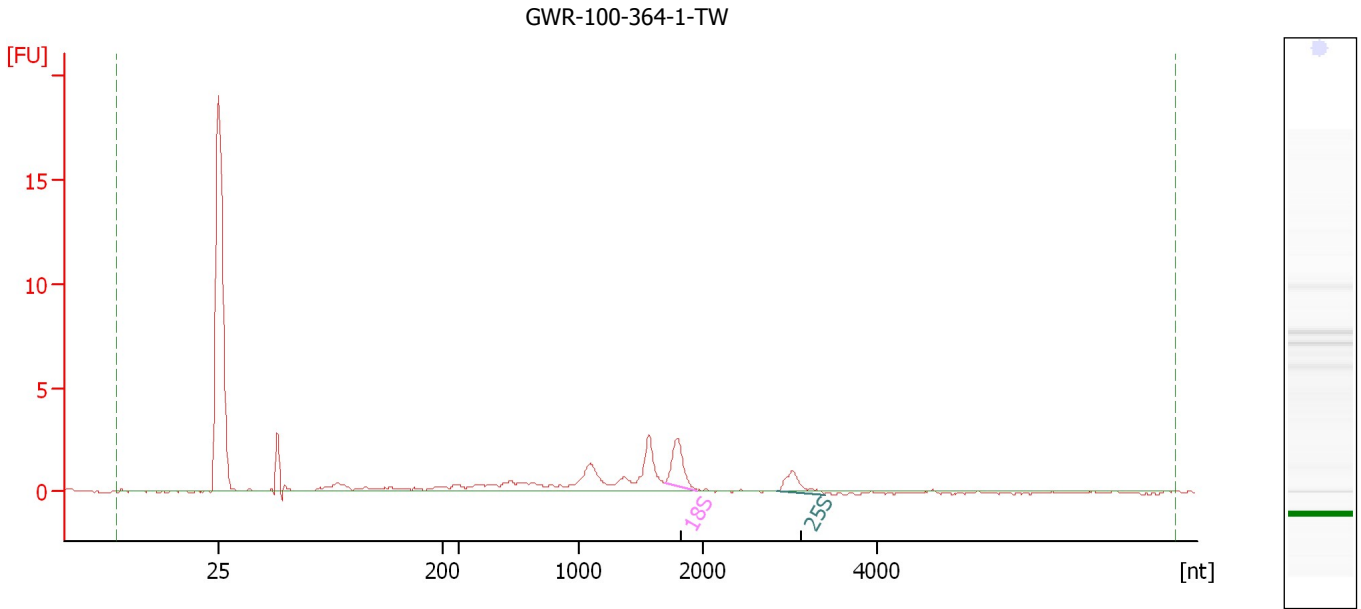
Fragment table for sample 2 : GWR-100-135-1-OW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,656	1,926	12.4	16.2
25S	2,815	3,487	6.5	8.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : GWR-100-364-1-TW

RNA Area: 23.7 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 25 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 7.40

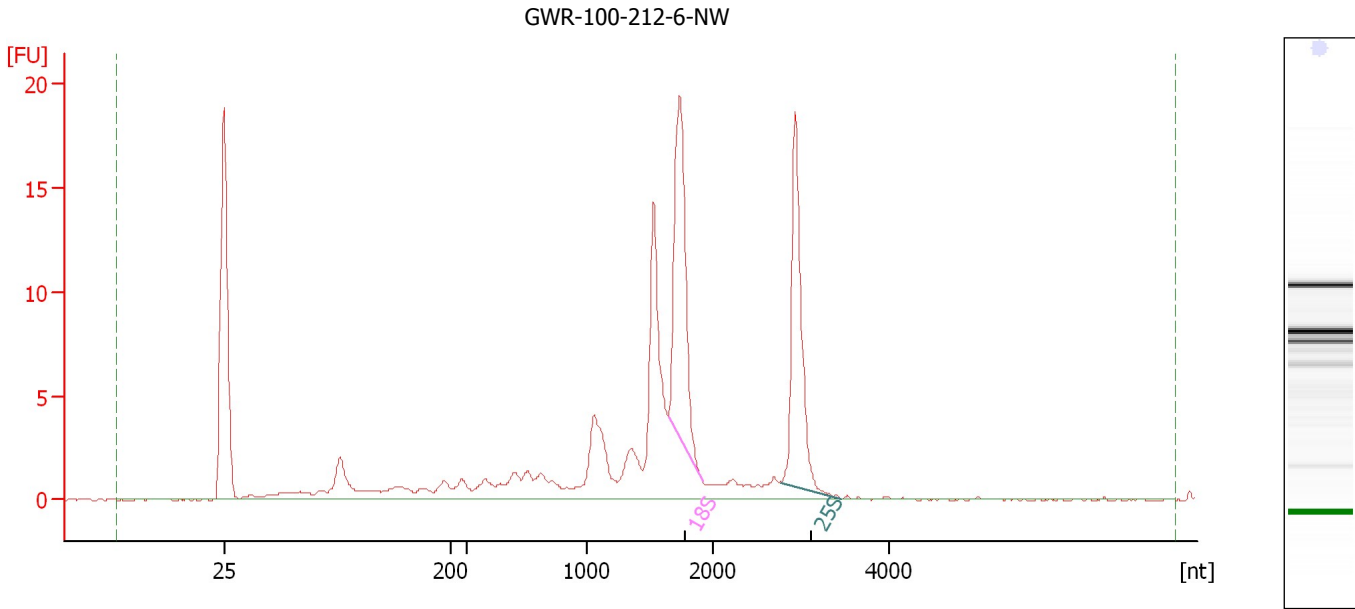
Fragment table for sample 3 : GWR-100-364-1-TW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	1,955	2.9	12.1
25S	2,860	3,402	1.7	7.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : GWR-100-212-6-NW

RNA Area: 118.4 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 123 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.9 Result Flagging Label: RIN: 7.10

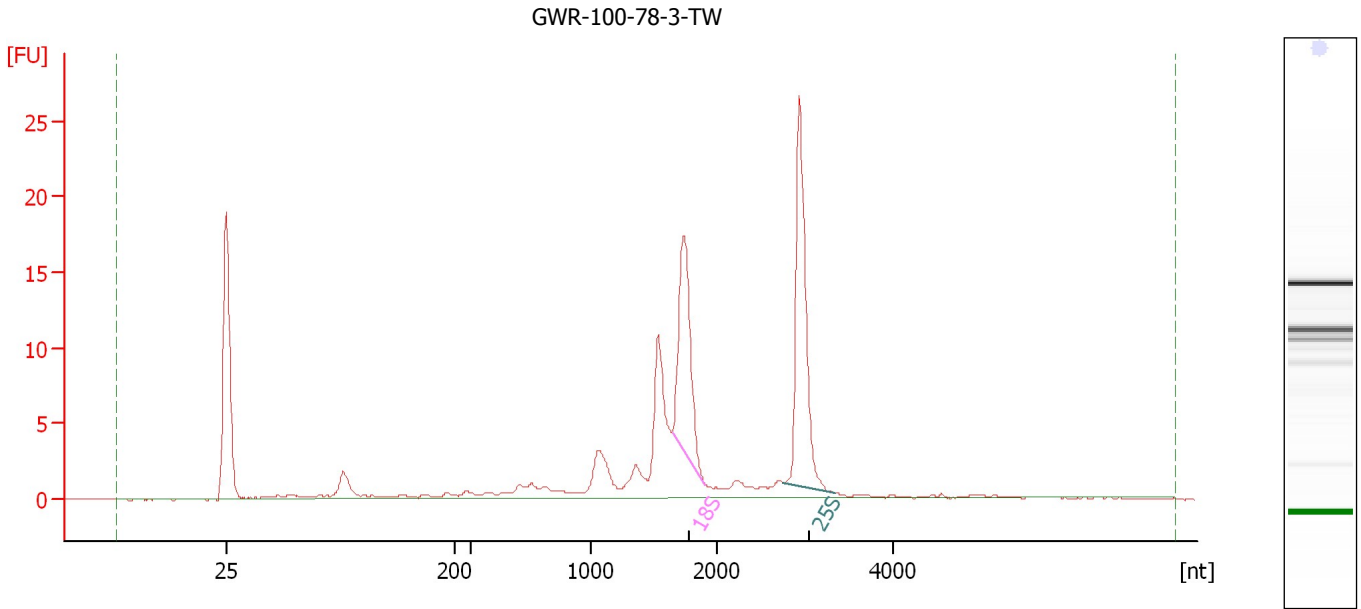
Fragment table for sample 4 : GWR-100-212-6-NW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,916	21.5	18.2
25S	2,782	3,453	18.5	15.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : GWR-100-78-3-TW

RNA Area: 107.4 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 111 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.3 Result Flagging Label: RIN:8

Fragment table for sample 5 : GWR-100-78-3-TW

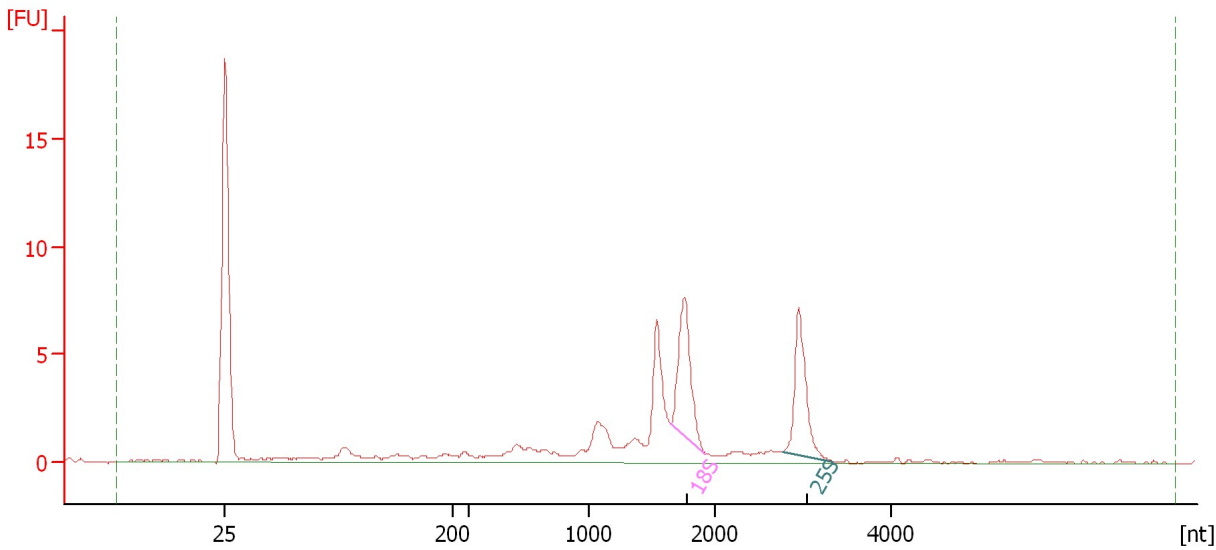
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,909	19.7	18.4
25S	2,756	3,339	25.6	23.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...

GWR-100-212-1-TW



Overall Results for sample 6 : GWR-100-212-1-TW

RNA Area: 60.0 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 62 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.9 Result Flagging Label: RIN: 7.50

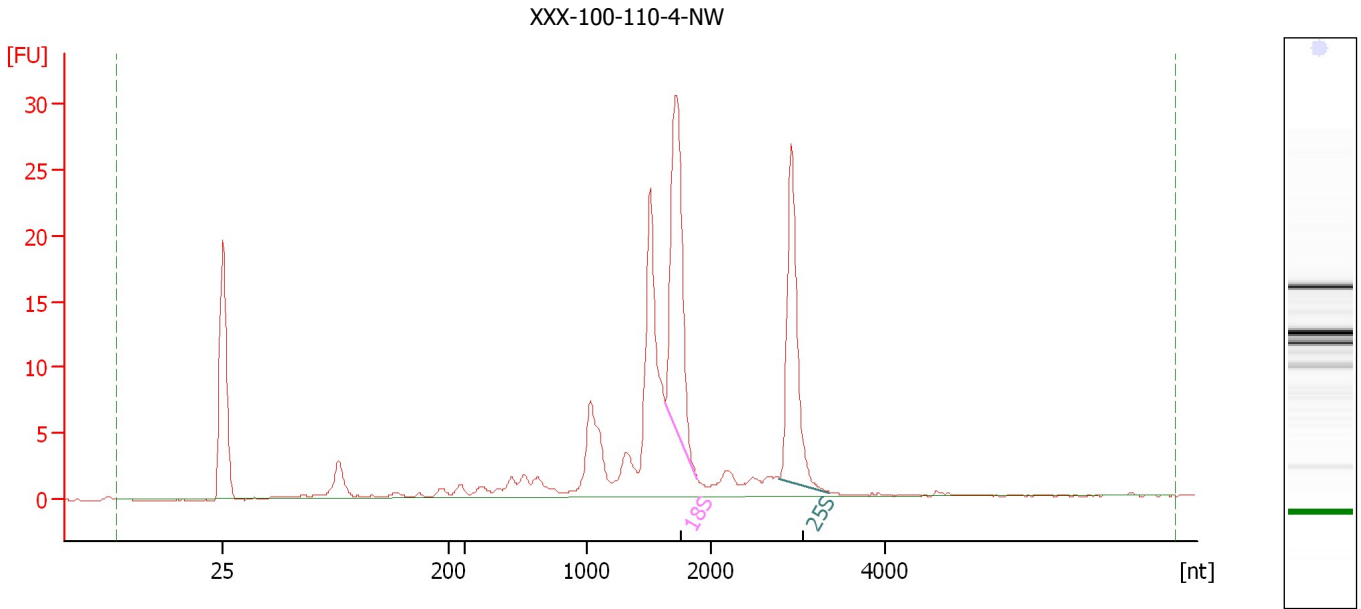
Fragment table for sample 6 : GWR-100-212-1-TW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	1,925	9.0	15.1
25S	2,769	3,341	7.9	13.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : XXX-100-110-4-NW

RNA Area: 167.9 RNA Integrity Number (RIN): 7 (B.02.08)
RNA Concentration: 174 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN:7

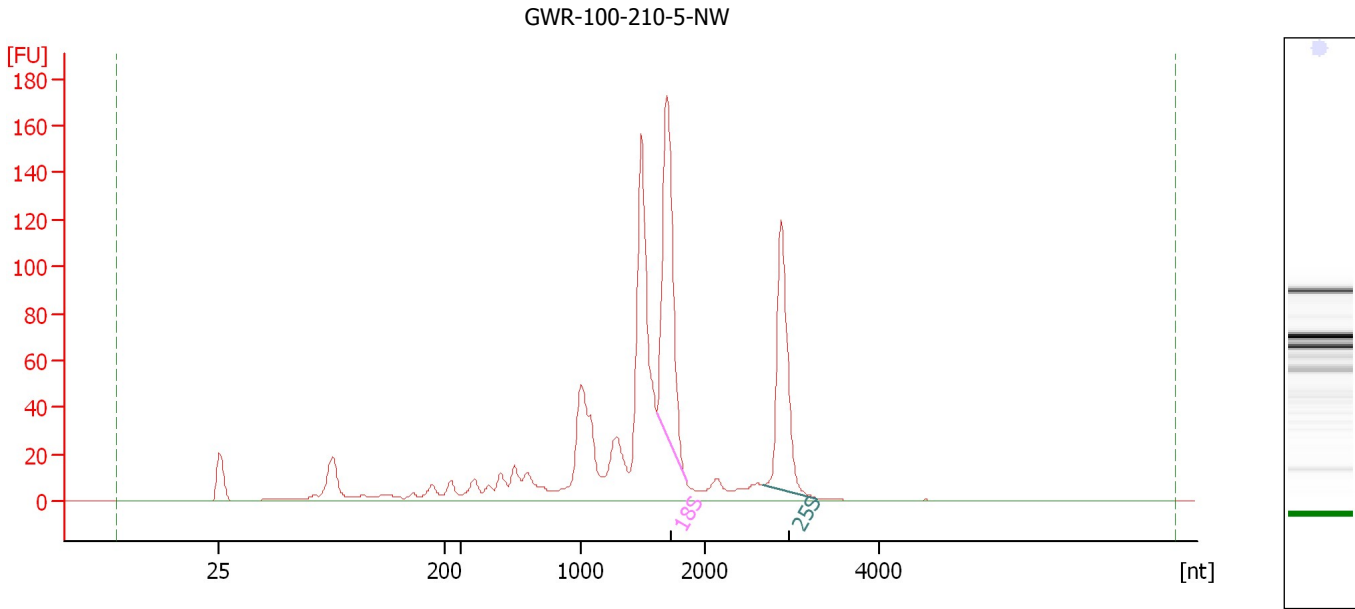
Fragment table for sample 7 : XXX-100-110-4-NW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,633	1,889	33.4	19.9
25S	2,783	3,357	26.7	15.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : GWR-100-210-5-NW

RNA Area: 1,016.3 RNA Integrity Number (RIN): 6.3 (B.02.08)
RNA Concentration: 1,053 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.7 Result Flagging Label: RIN: 6.30

Fragment table for sample 8 : GWR-100-210-5-NW

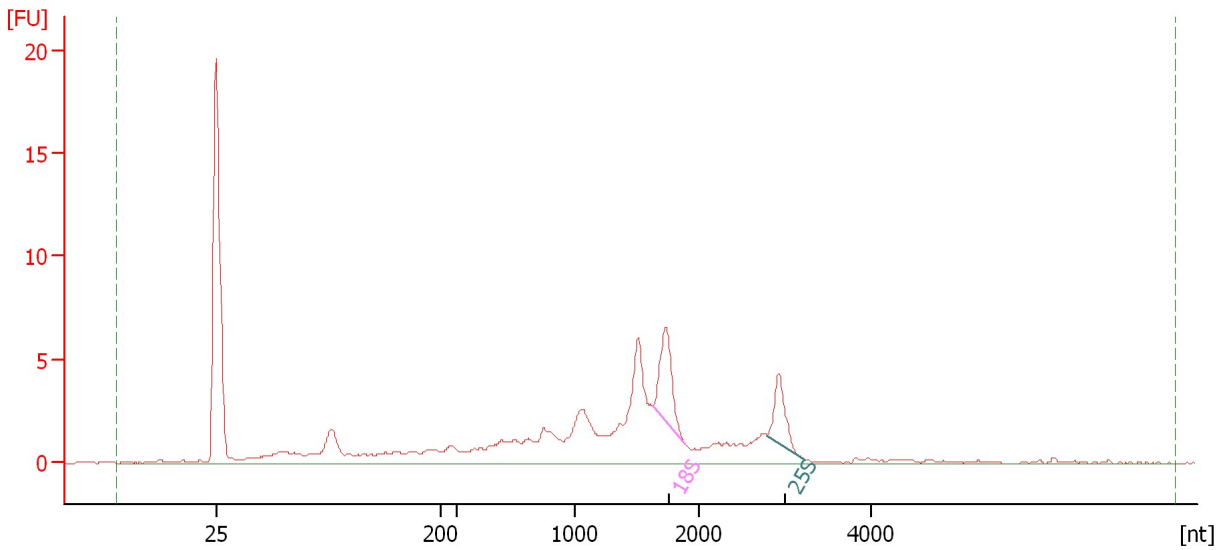
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,612	1,853	184.6	18.2
25S	2,662	3,302	129.7	12.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...

IFG-100-38-6-NW



Overall Results for sample 9 : IFG-100-38-6-NW

RNA Area: 84.3 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 87 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 6.50

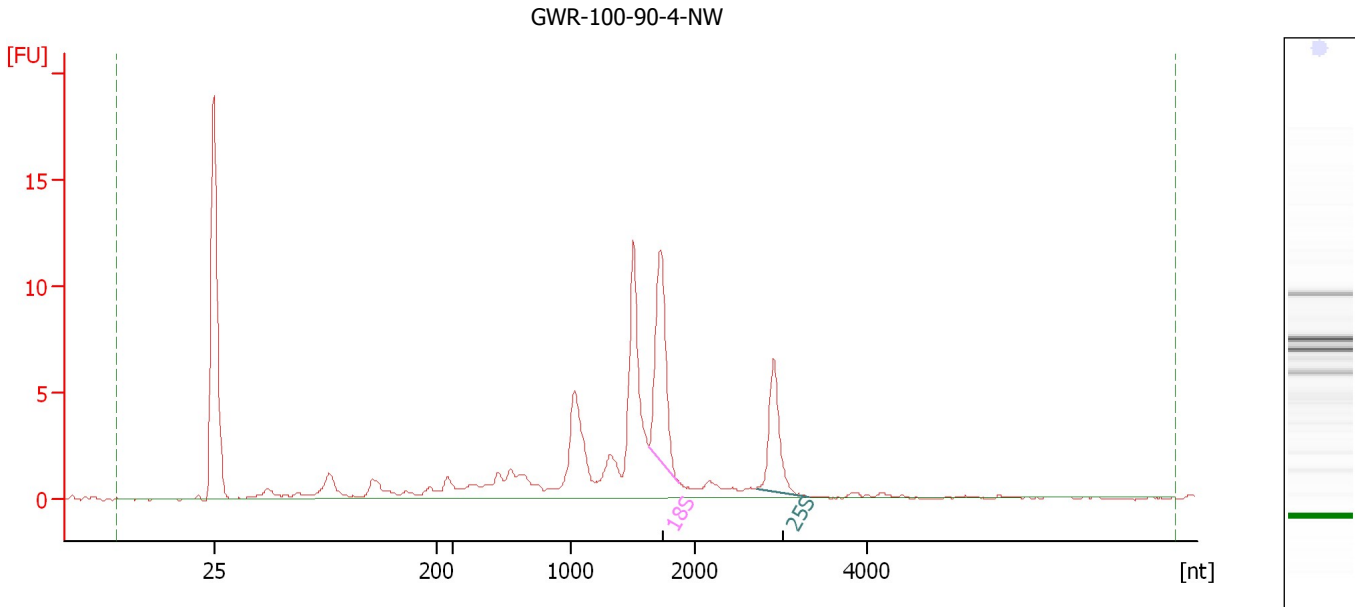
Fragment table for sample 9 : IFG-100-38-6-NW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,885	6.5	7.7
25S	2,800	3,221	3.8	4.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : GWR-100-90-4-NW

RNA Area: 76.8 RNA Integrity Number (RIN): 6.8 (B.02.08)
RNA Concentration: 80 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 6.80

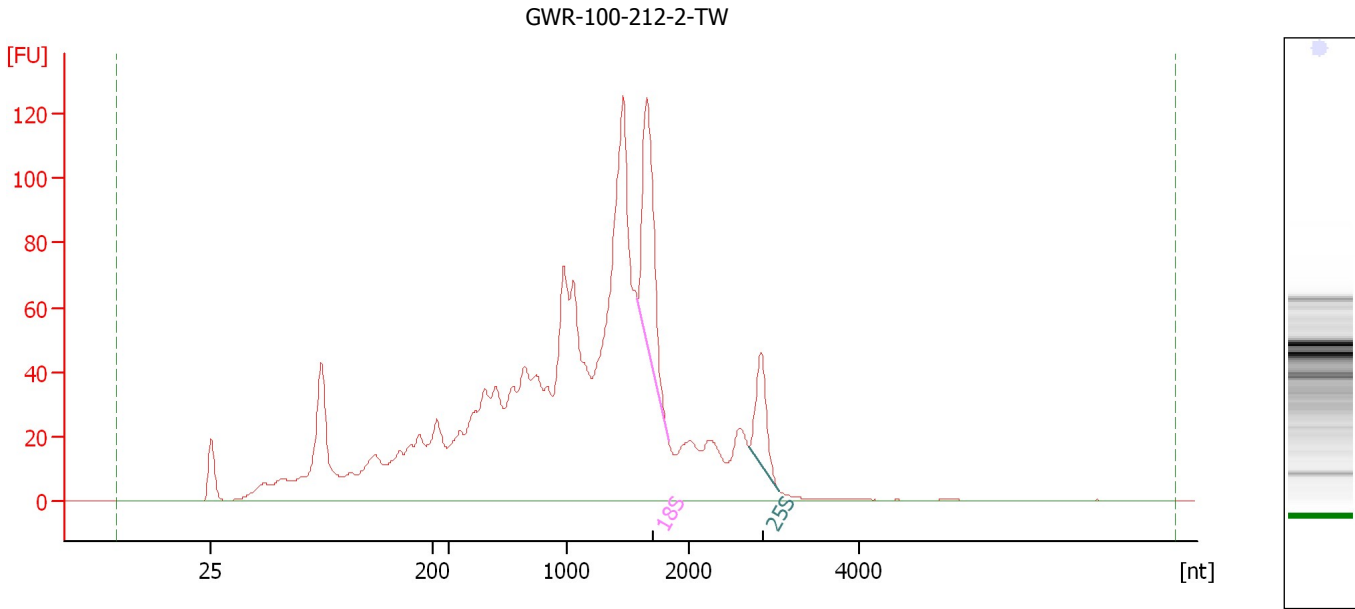
Fragment table for sample 10 : GWR-100-90-4-NW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	1,874	12.0	15.6
25S	2,715	3,324	6.9	8.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : GWR-100-212-2-TW

RNA Area: 1,827.8 RNA Integrity Number (RIN): 4.2 (B.02.08)
RNA Concentration: 1,893 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.4 Result Flagging Label: RIN: 4.20

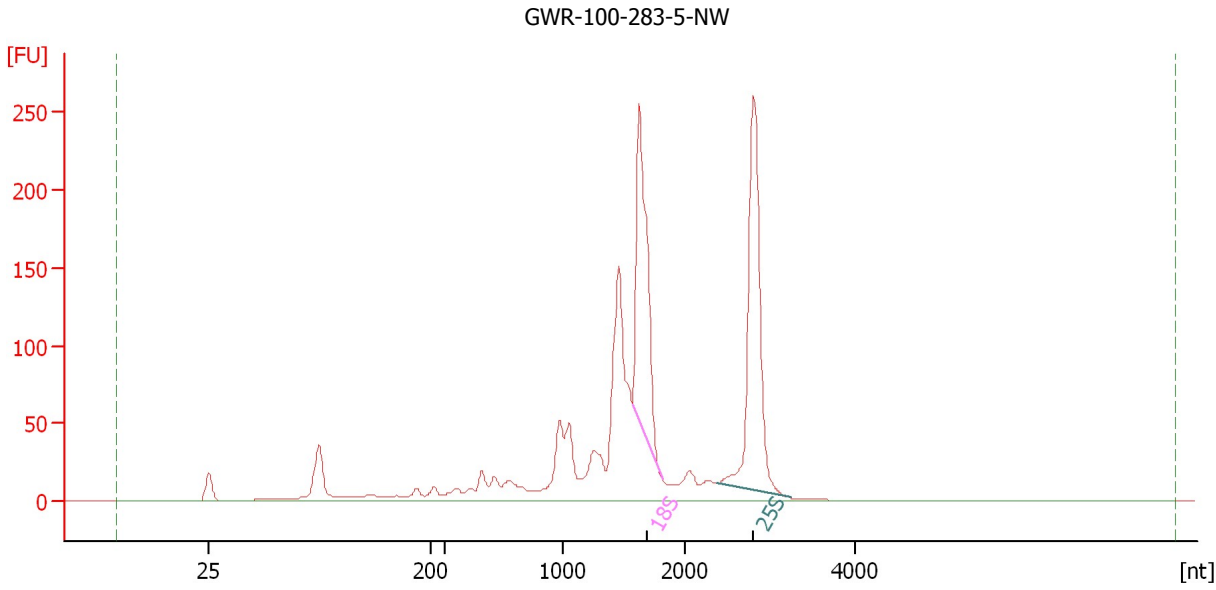
Fragment table for sample 11 : GWR-100-212-2-TW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,837	103.1	5.6
25S	2,704	3,054	39.8	2.2

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
 Modified: 9/17/2018 1:56:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : GWR-100-283-5-NW

RNA Area:	1,535.8	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	1,591 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.2	Result Flagging Label:	RIN:7

Fragment table for sample 12 : GWR-100-283-5-NW

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	1,818	270.5	17.6
25S	2,392	3,245	320.0	20.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-17\2018-09-17_002.xad

Created: 9/17/2018 1:32:40 PM
Modified: 9/17/2018 1:56:29 PM

Gel Image

