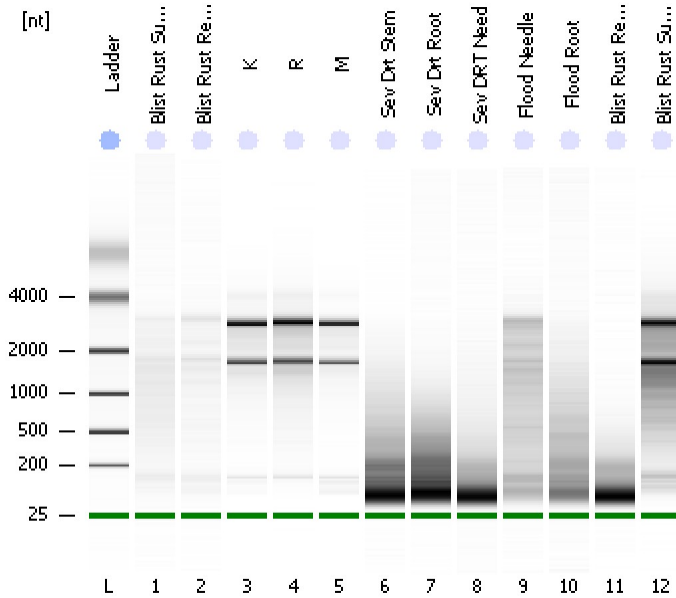


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 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

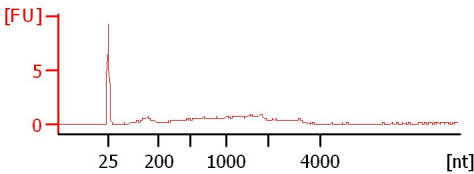
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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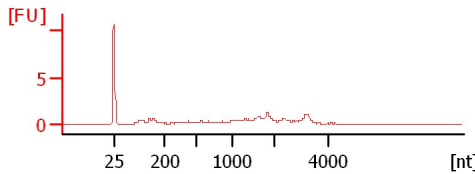
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

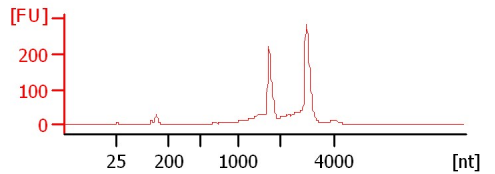
Blist Rust Suc Need
RIN: 1.10



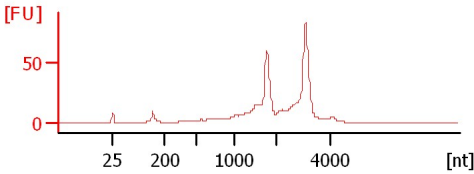
Blist Rust Res Need
RIN: 5.60



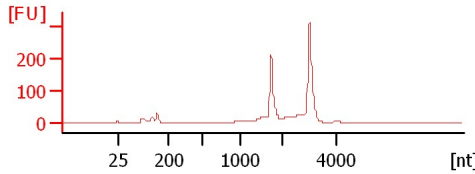
K
RIN: 8.40



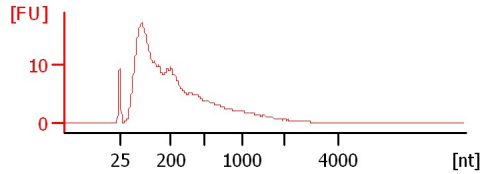
R
RIN: 8.60



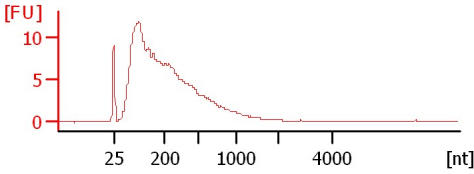
M
RIN: 8.90



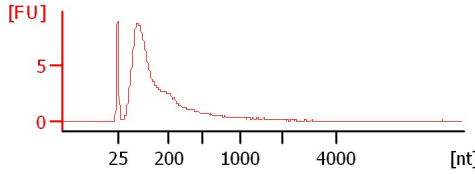
Sev Drt Stem
RIN: 2.30



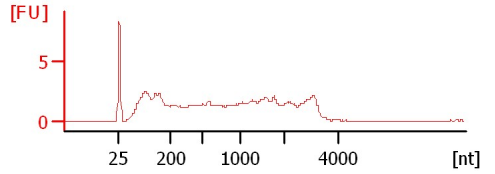
Sev Drt Root
RIN: 2.30



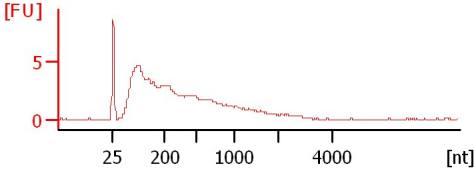
Sev DRT Need
RIN: 2.50



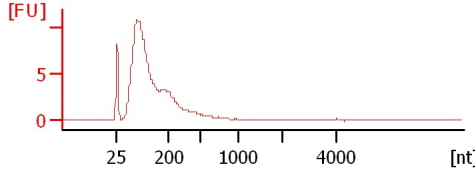
Flood Needle
RIN: 3



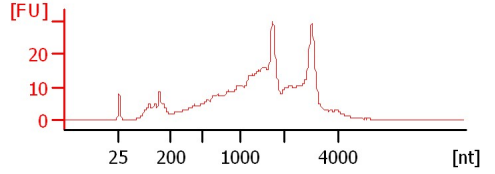
Flood Root
RIN: 2.40



Blist Rust Res Stem
RIN: 2.50



Blist Rust Suc Stem
RIN: 5.80



Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Blist Rust Suc Need		✓	RIN: 1.10	
Blist Rust Res Need		✓	RIN: 5.60	
K		✓	RIN: 8.40	
R		✓	RIN: 8.60	
M		✓	RIN: 8.90	
Sev Drt Stem		✓	RIN: 2.30	
Sev Drt Root		✓	RIN: 2.30	
Sev DRT Need		✓	RIN: 2.50	
Flood Needle		✓	RIN:3	
Flood Root		✓	RIN: 2.40	
Blist Rust Res Stem		✓	RIN: 2.50	
Blist Rust Suc Stem		✓	RIN: 5.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 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

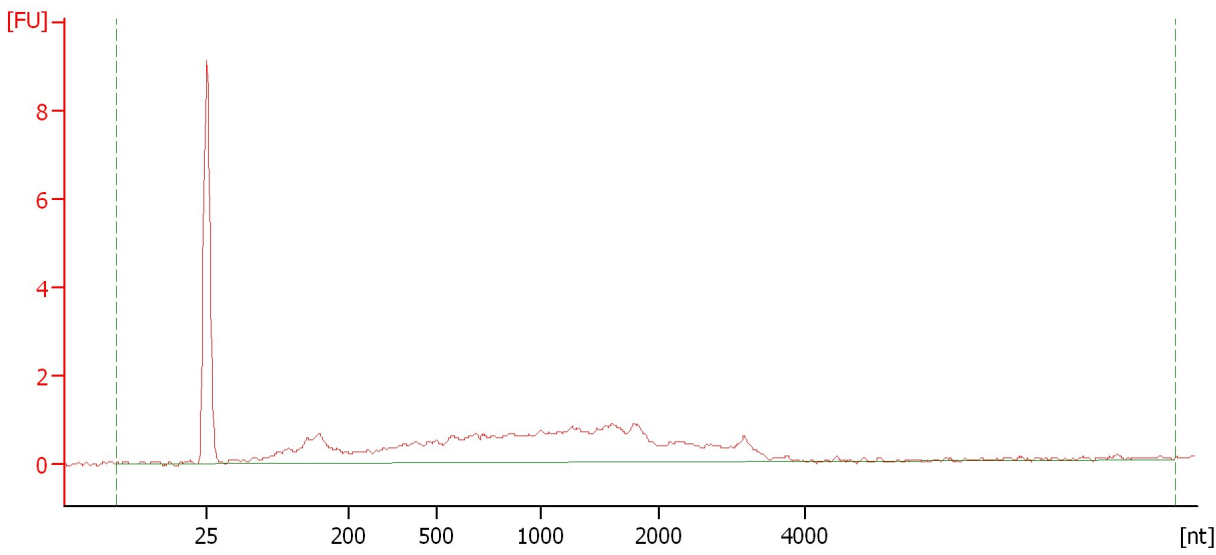
Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary

Blist Rust Suc Need



Overall Results for sample 1 : Blist Rust Suc Need

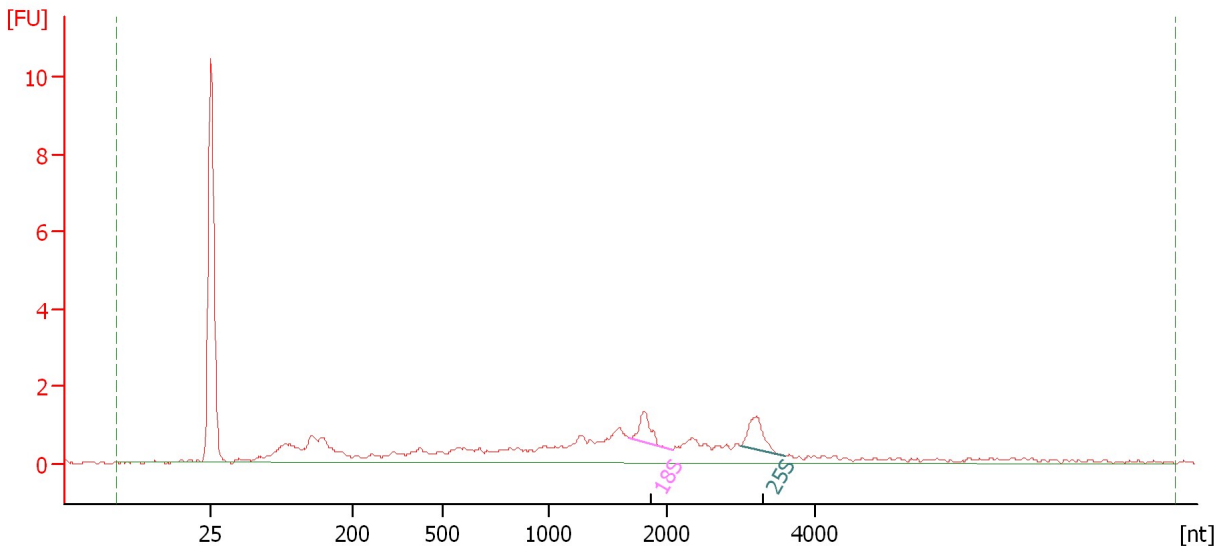
RNA Area:	30.7	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	23 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...

Blist Rust Res Need



Overall Results for sample 2 : Blist Rust Res Need

RNA Area: 30.5 RNA Integrity Number (RIN): 5.6 (B.02.08)
RNA Concentration: 23 ng/µl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.2 Result Flagging Label: RIN: 5.60

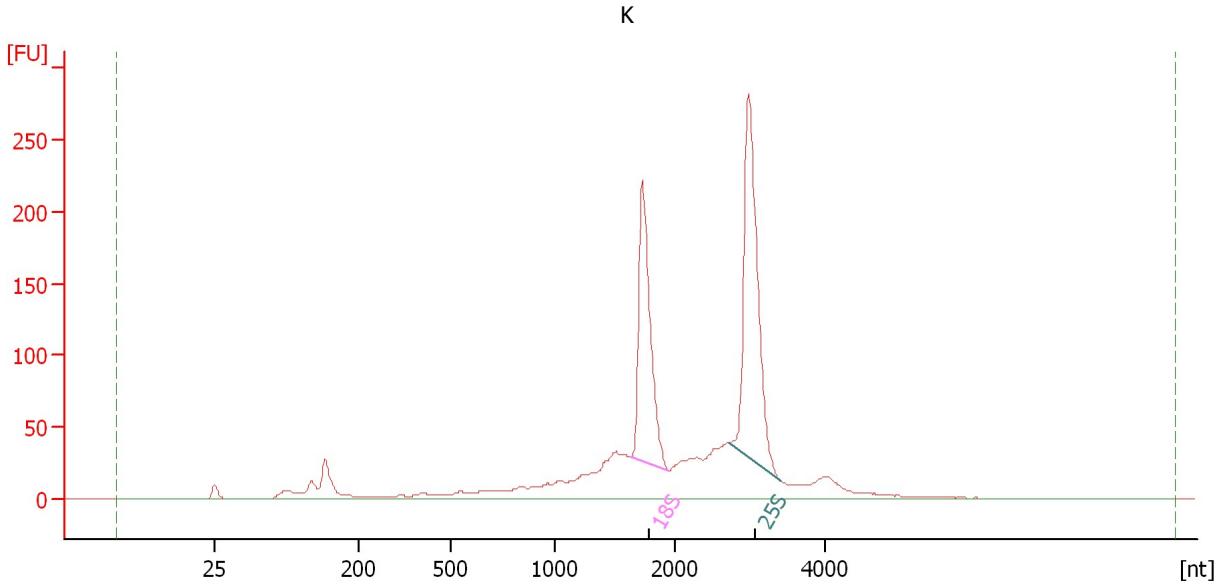
Fragment table for sample 2 : Blist Rust Res Need

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,692	2,084	1.1	3.7
25S	3,002	3,591	1.4	4.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : K

RNA Area: 1,528.6 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 1,144 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 8.40

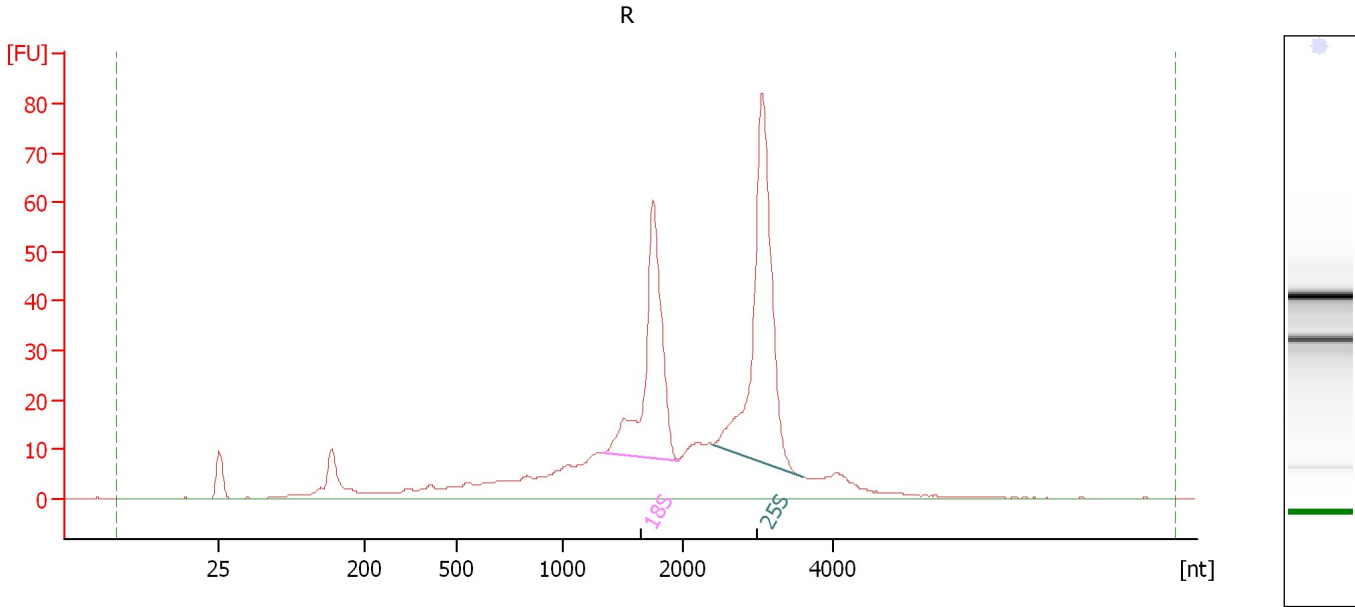
Fragment table for sample 3 : K

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	1,949	267.3	17.5
25S	2,716	3,413	379.2	24.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : R

RNA Area: 596.8 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 447 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.4 Result Flagging Label: RIN: 8.60

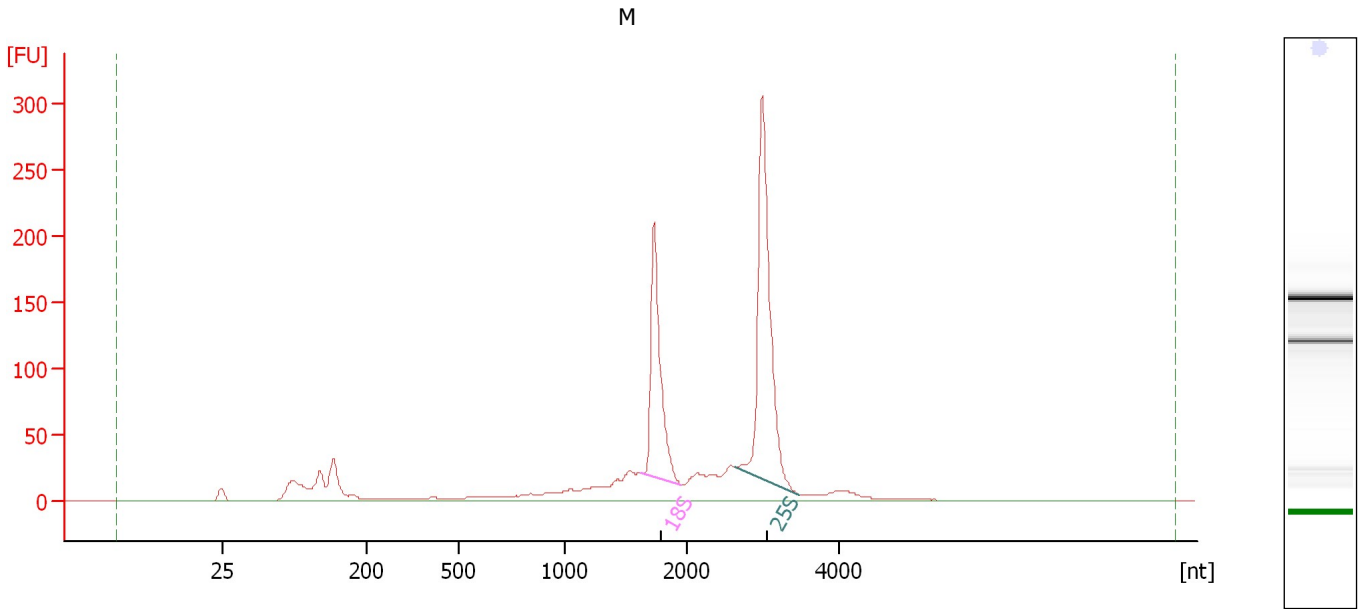
Fragment table for sample 4 : R

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,332	1,962	106.8	17.9
25S	2,391	3,591	148.4	24.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : M

RNA Area: 1,255.3 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 940 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.7 Result Flagging Label: RIN: 8.90

Fragment table for sample 5 : M

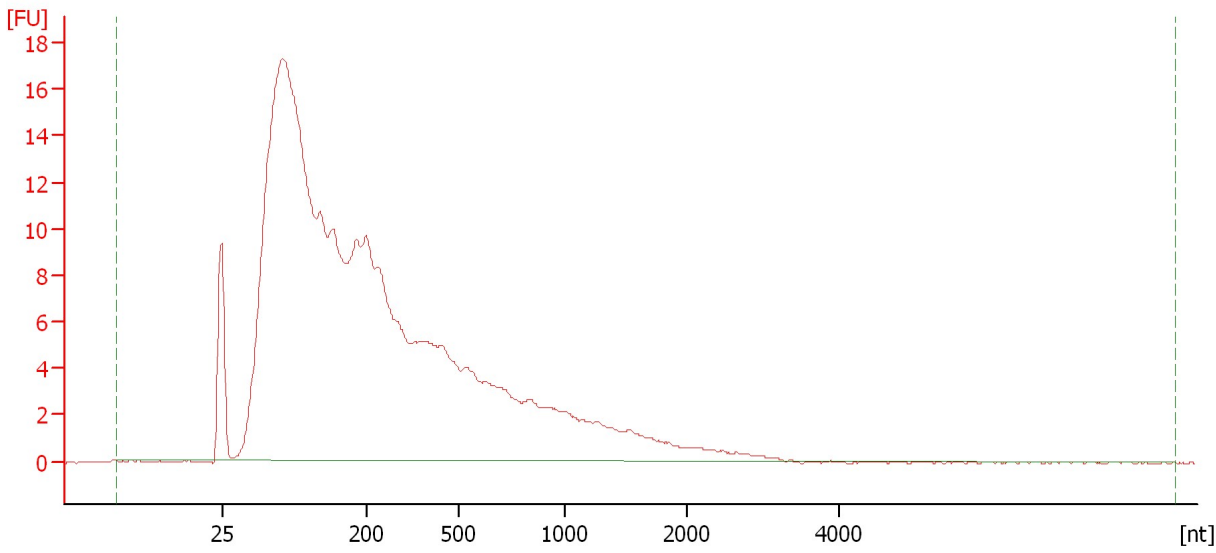
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,955	222.3	17.7
25S	2,646	3,475	375.0	29.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...

Sev Drt Stem



Overall Results for sample 6 : Sev Drt Stem

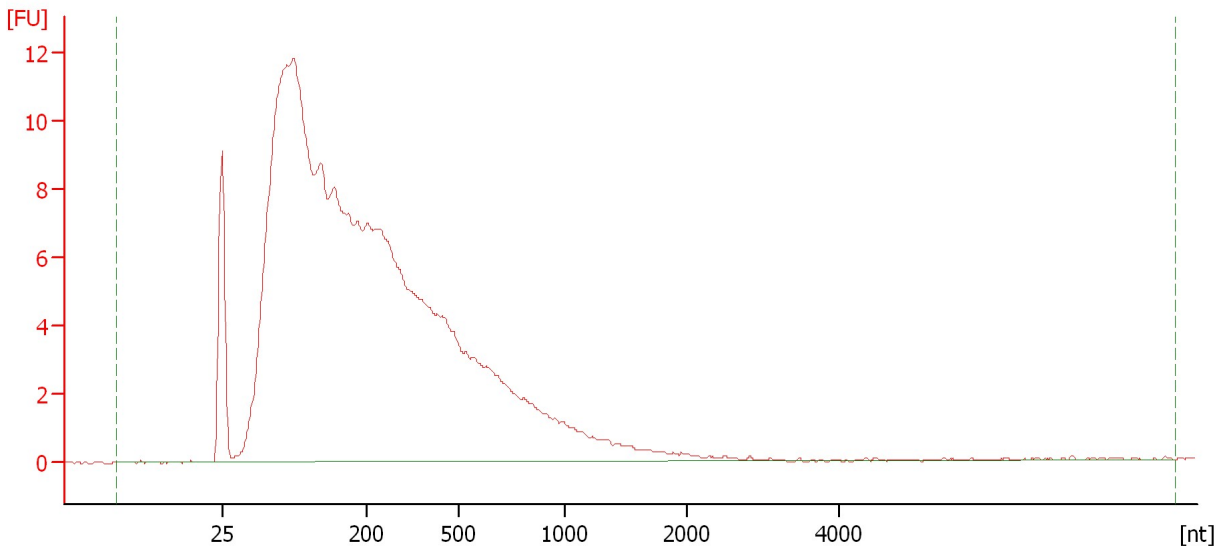
RNA Area:	353.2	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	264 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...

Sev Drt Root



Overall Results for sample 7 : Sev Drt Root

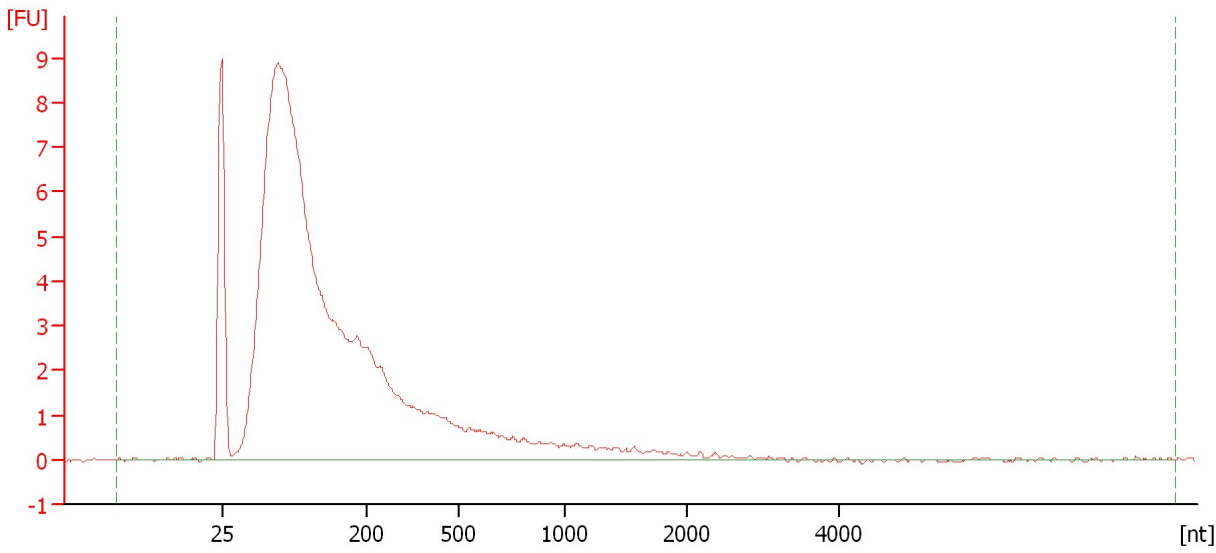
RNA Area:	259.8	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	195 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...

Sev DRT Need



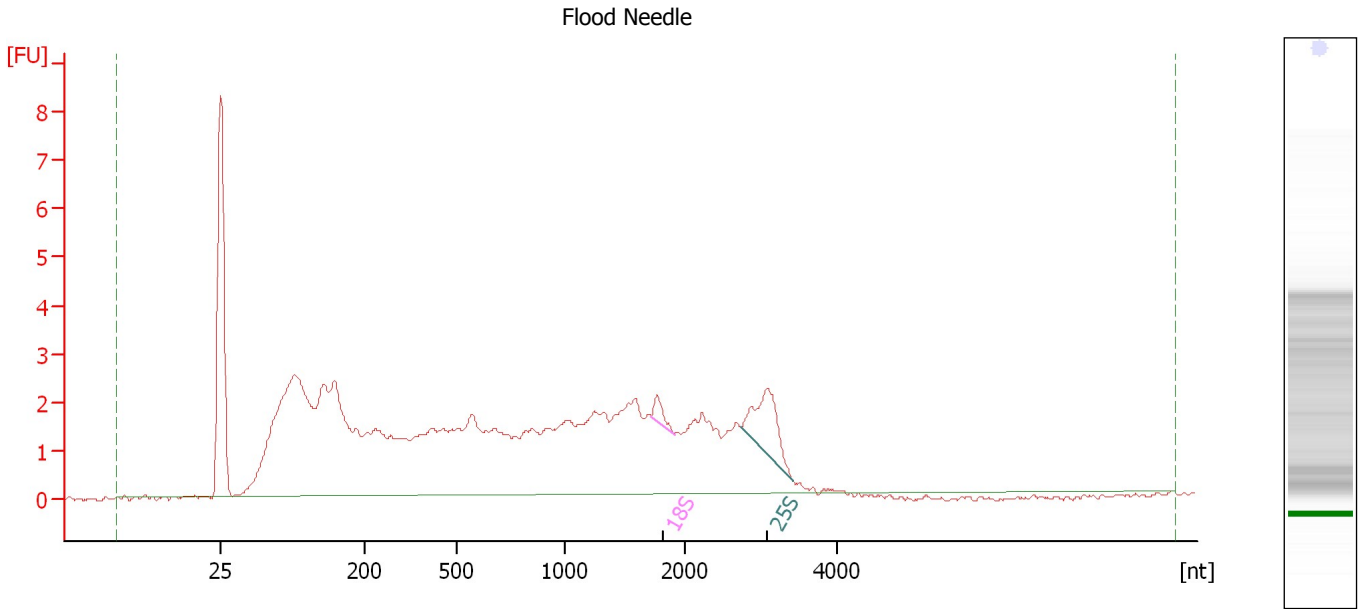
Overall Results for sample 8 : Sev DRT Need

RNA Area:	124.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	93 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
 Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Flood Needle

RNA Area: 102.7 RNA Integrity Number (RIN): 3 (B.02.08)
 RNA Concentration: 77 ng/μl Result Flagging Color:
 rRNA Ratio [25s / 18s]: 6.1 Result Flagging Label: RIN:3

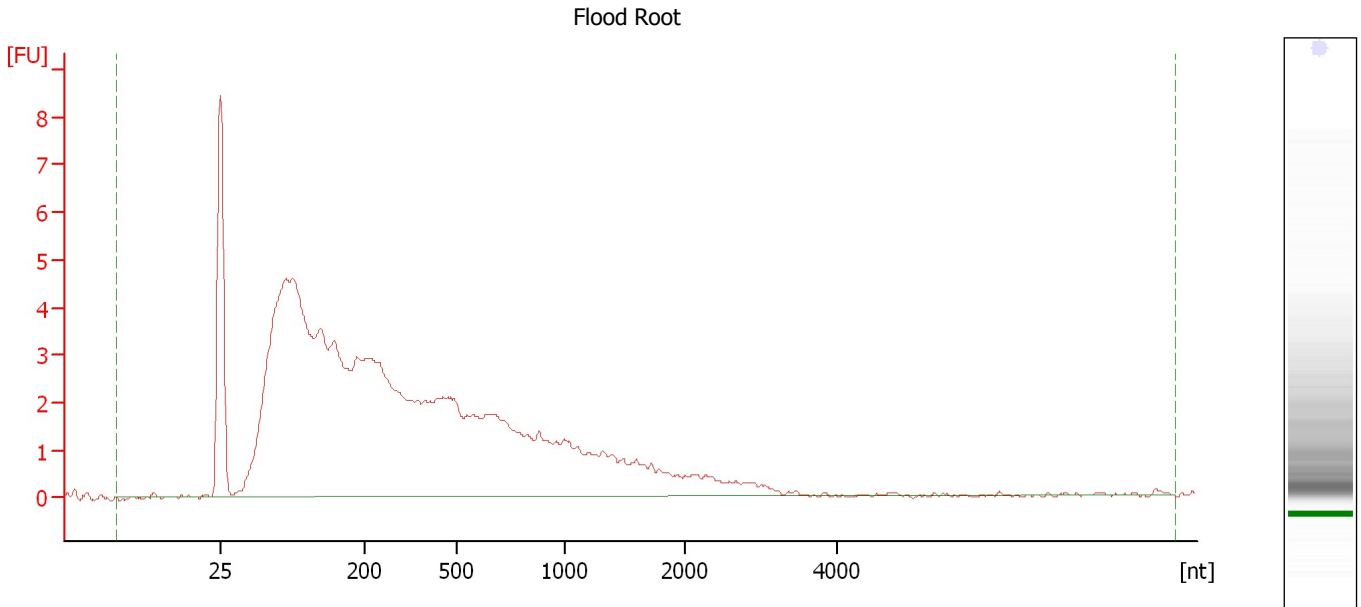
Fragment table for sample 9 : Flood Needle

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	1,918	0.5	0.5
25S	2,744	3,420	3.3	3.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Flood Root

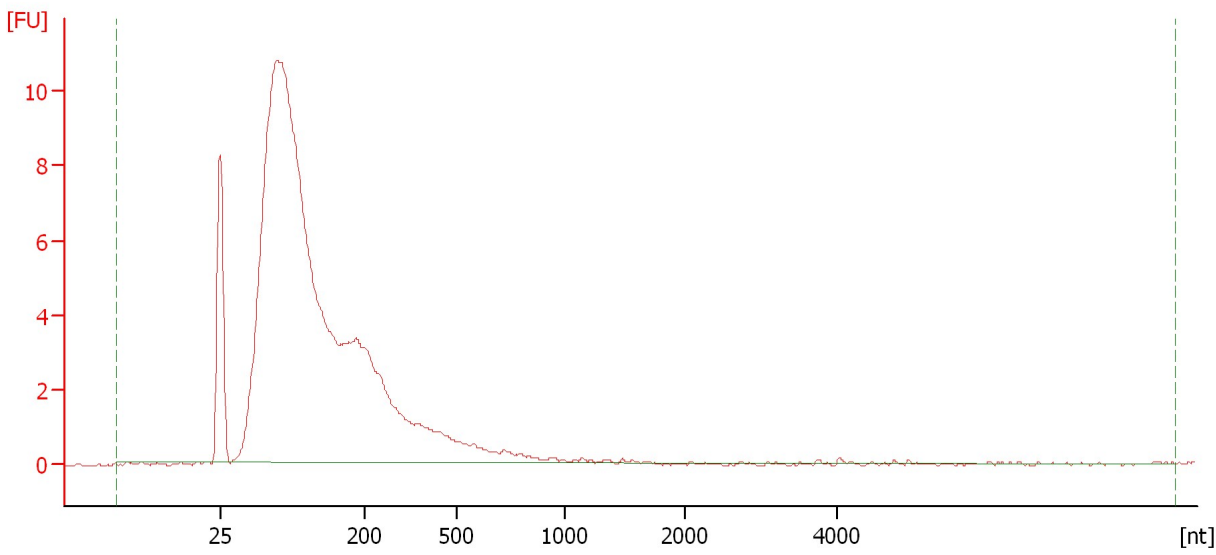
RNA Area:	121.6	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	91 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...

Blist Rust Res Stem



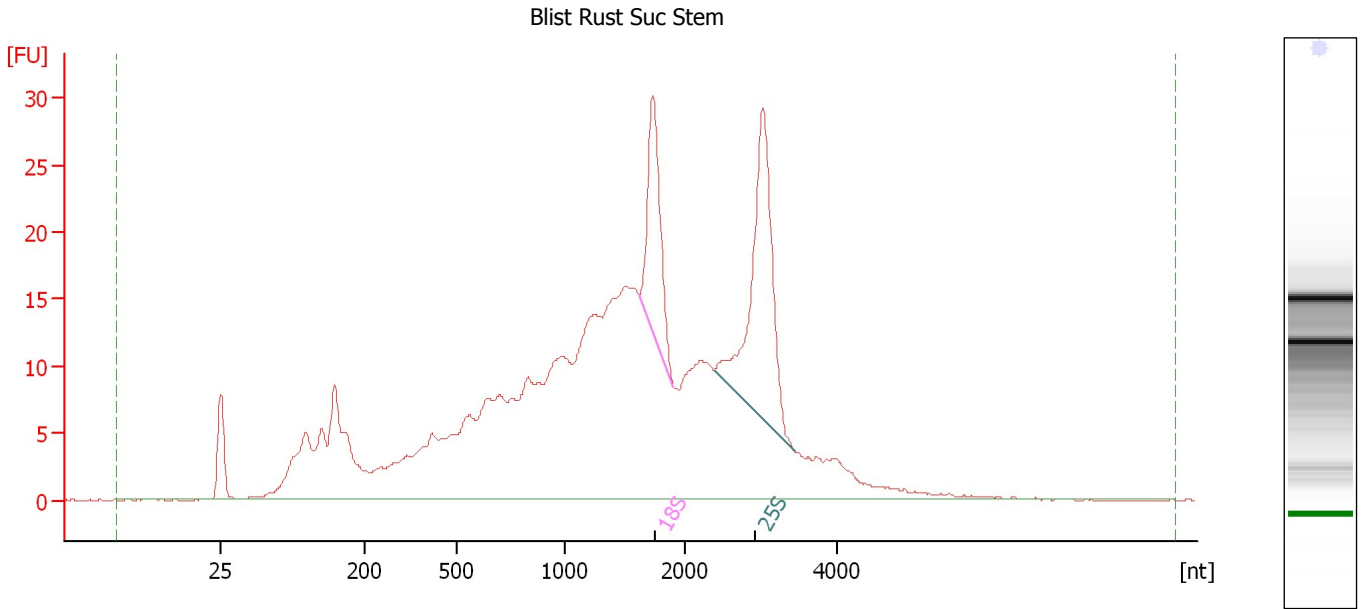
Overall Results for sample 11 : Blist Rust Res Stem

RNA Area:	136.2	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	102 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Blist Rust Suc Stem

RNA Area: 550.2 RNA Integrity Number (RIN): 5.8 (B.02.08)
RNA Concentration: 412 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 5.80

Fragment table for sample 12 : Blist Rust Suc Stem

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,626	1,910	27.0	4.9
25S	2,392	3,448	51.7	9.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-05-05\2014-05-05_002.xad

Created: 5/5/2014 12:26:28 PM
Modified: 5/5/2014 12:50:18 PM

Gel Image

