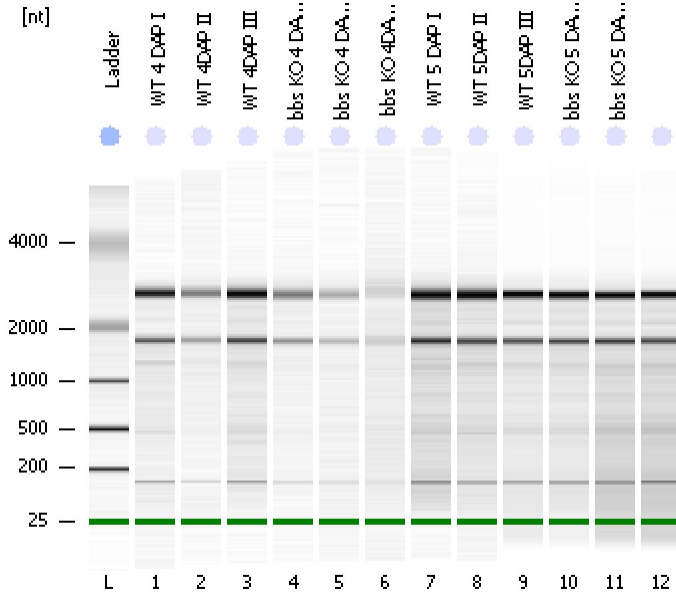


Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 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

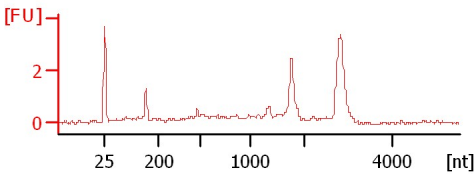
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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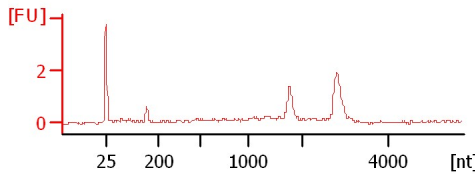
Chip Information:

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

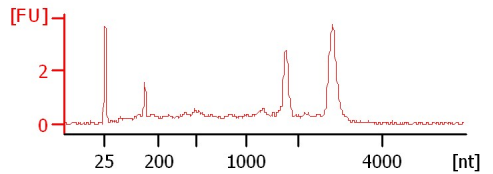
WT 4 DAP I
RIN: 4.80



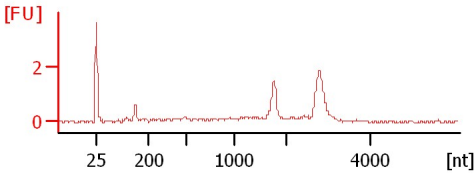
WT 4 DAP II
RIN: 5.50



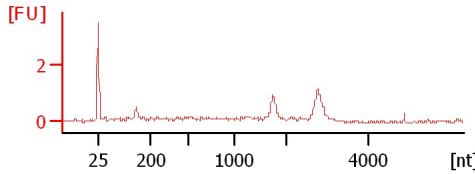
WT 4 DAP III
RIN: 4.30



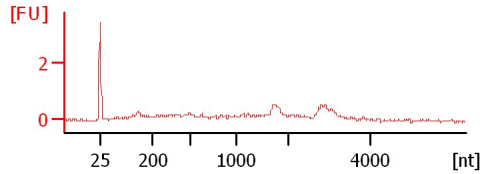
bbs KO 4 DAP I
RIN: 6.40



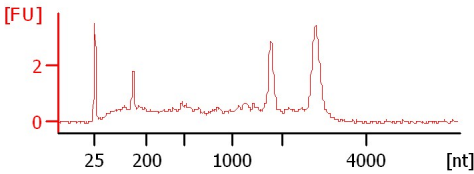
bbs KO 4 DAP II
RIN: 4.60



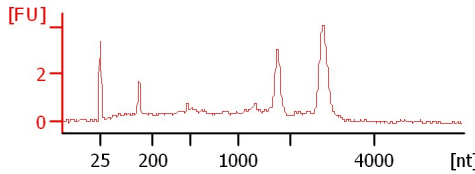
bbs KO 4 DAP III
RIN: 1.70



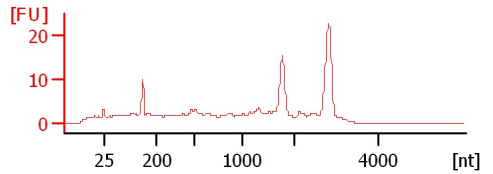
WT 5 DAP I
RIN: 3.90



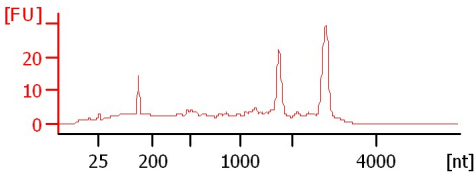
WT 5 DAP II
RIN: 4.30



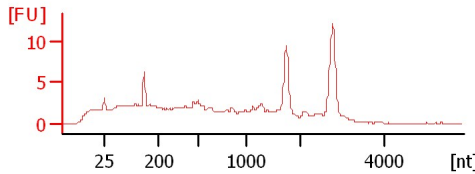
WT 5 DAP III
RIN: 4.40



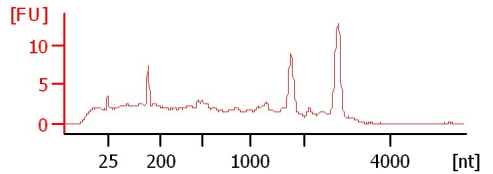
bbs KO 5 DAP I
RIN: 4



bbs KO 5 DAP II
RIN: 3.40



bbs KO 5 DAP III
RIN: 3.20



Assay Class: Plant RNA Nano
 Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
 Modified: 12/5/2018 2:00:29 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT 4 DAP I		✓	RIN: 4.80	
WT 4DAP II		✓	RIN: 5.50	
WT 4DAP III		✓	RIN: 4.30	
bbs KO 4 DAP I		✓	RIN: 6.40	
bbs KO 4 DAP II		✓	RIN: 4.60	
bbs KO 4DAP III		✓	RIN: 1.70	
WT 5 DAP I		✓	RIN: 3.90	
WT 5DAP II		✓	RIN: 4.30	
WT 5DAP III		✓	RIN: 4.40	
bbs KO 5 DAP I		✓	RIN:4	
bbs KO 5 DAP II		✓	RIN: 3.40	
Ladder		✓	RIN: 3.20	
		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 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/ 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

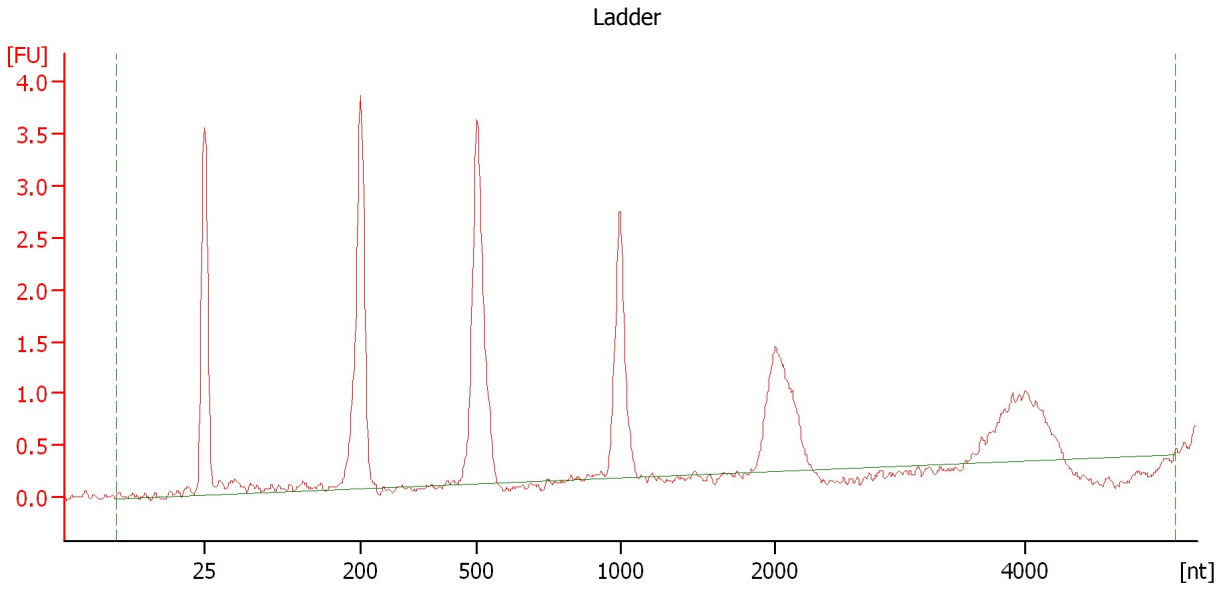
Ladder

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

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary



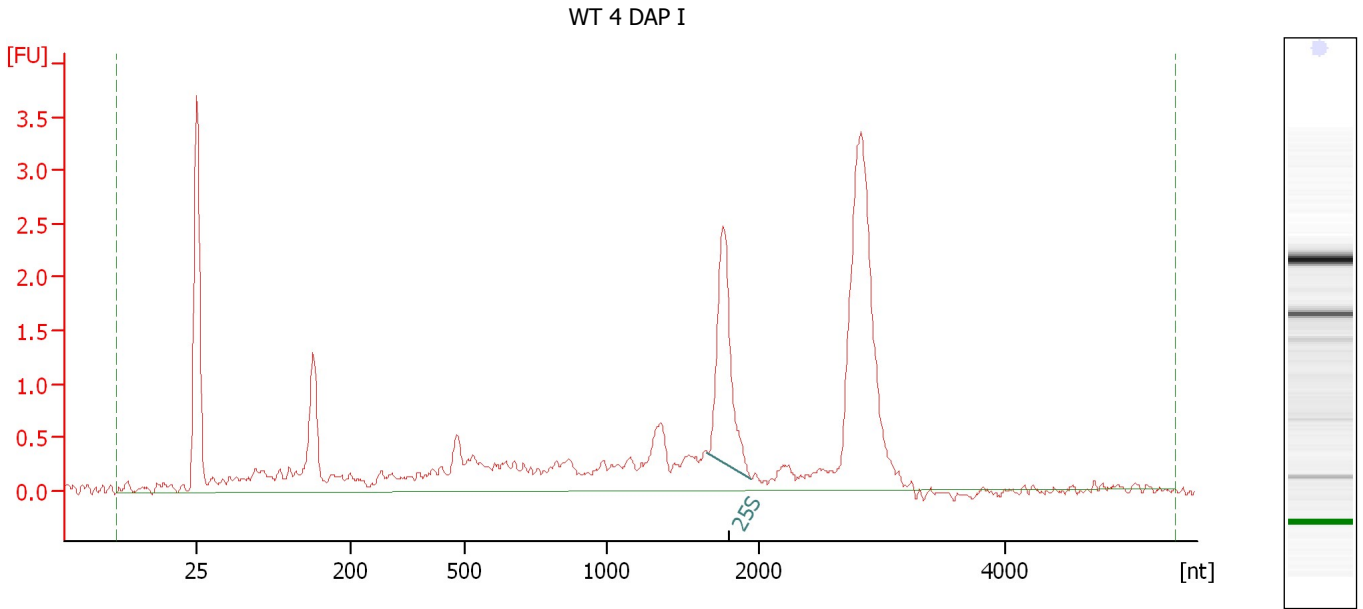
Overall Results for Ladder

RNA Area:	22.6	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT 4 DAP I

RNA Area: 29.1 RNA Integrity Number (RIN): 4.8 (B.02.08)
RNA Concentration: 193 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 4.80

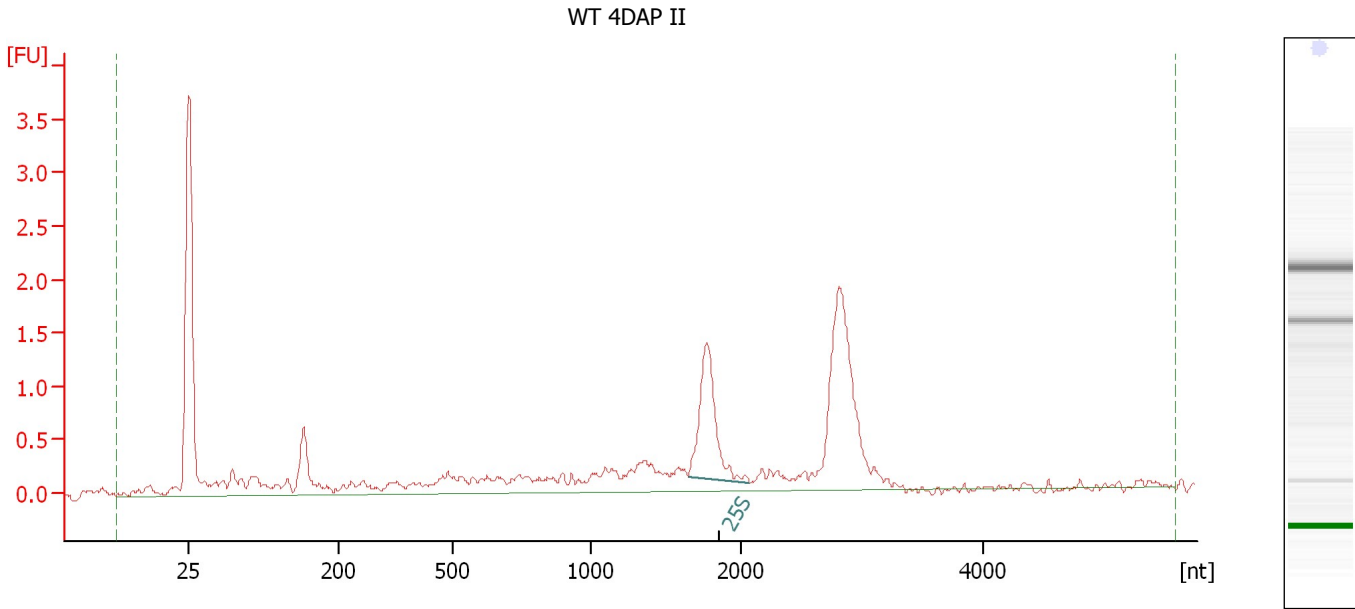
Fragment table for sample 1 : WT 4 DAP I

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,663	1,943	3.3	11.5

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : WT 4DAP II

RNA Area: 17.8 RNA Integrity Number (RIN): 5.5 (B.02.08)
RNA Concentration: 118 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 5.50

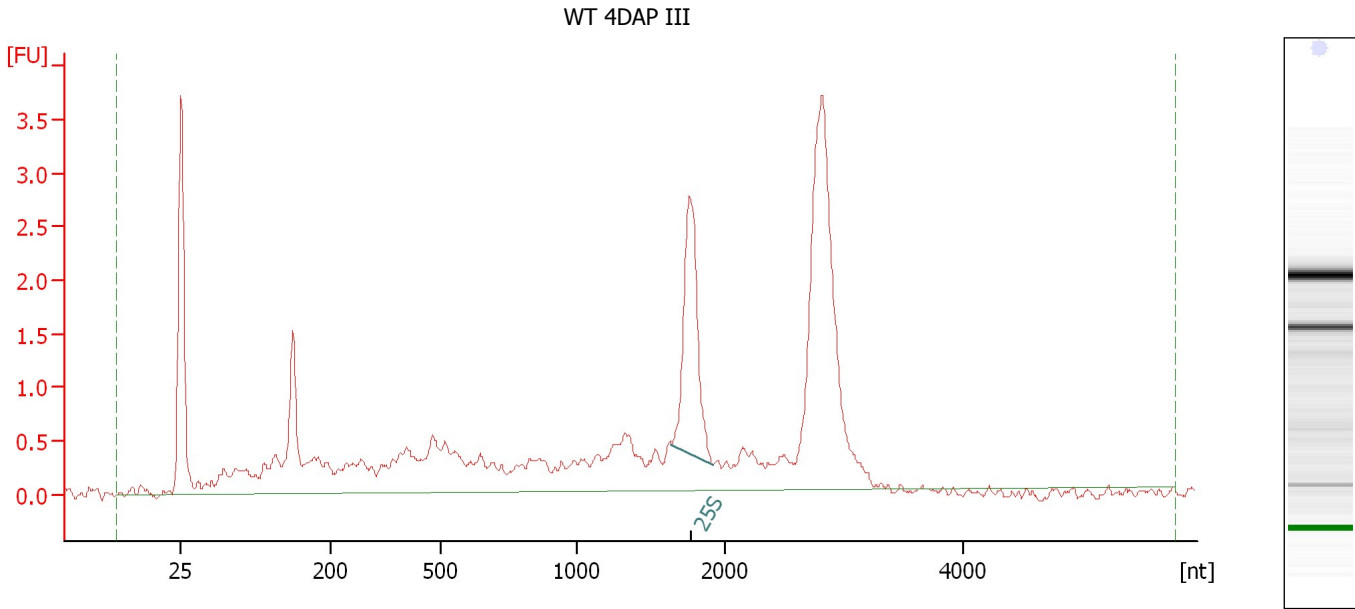
Fragment table for sample 2 : WT 4DAP II

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,650	2,070	2.3	12.9

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WT 4DAP III

RNA Area: 37.0 RNA Integrity Number (RIN): 4.3 (B.02.08)
RNA Concentration: 246 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 4.30

Fragment table for sample 3 : WT 4DAP III

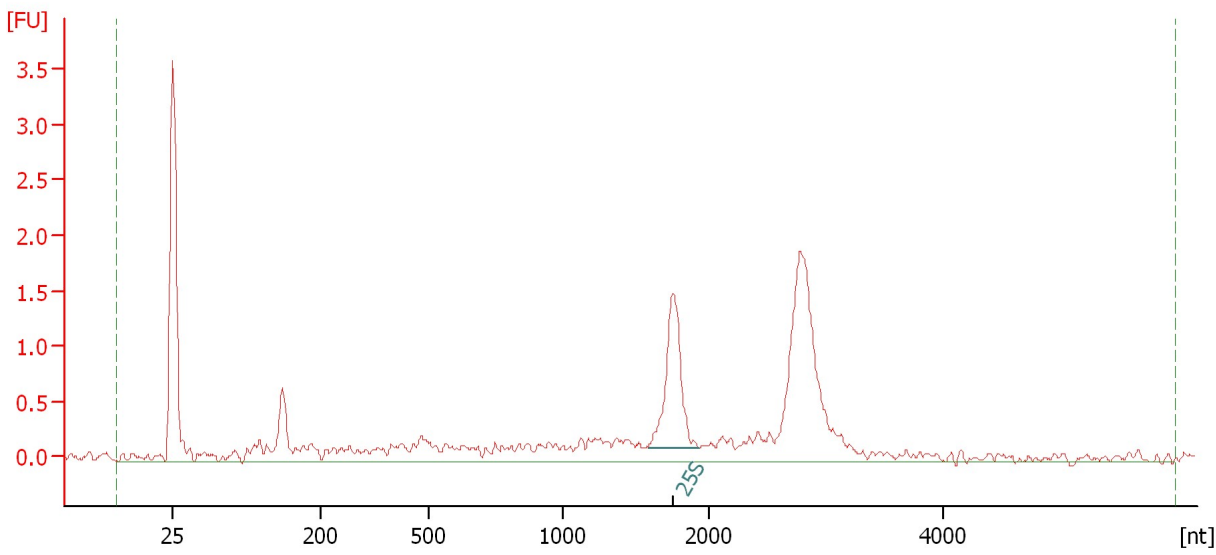
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,637	1,912	3.9	10.4

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...

bbs KO 4 DAP I



Overall Results for sample 4 : bbs KO 4 DAP I

RNA Area:	19.3	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	128 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

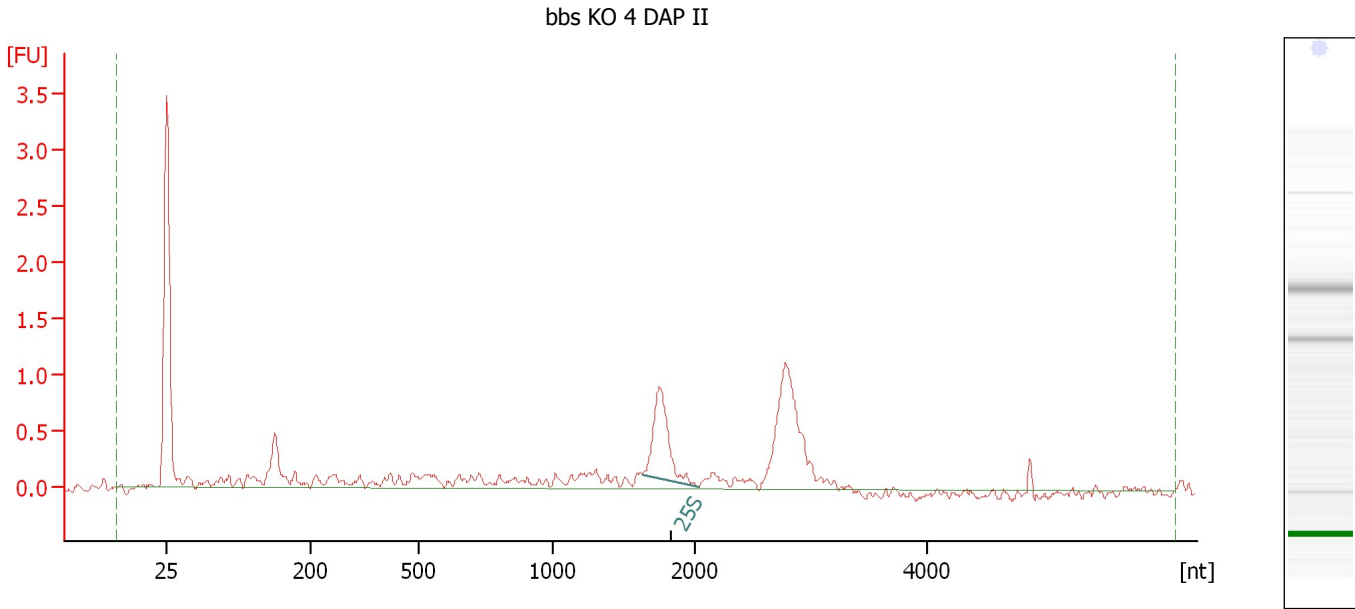
Fragment table for sample 4 : bbs KO 4 DAP I

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,579	1,925	2.5	12.8

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : bbs KO 4 DAP II

RNA Area: 10.5 RNA Integrity Number (RIN): 4.6 (B.02.08)
RNA Concentration: 70 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 4.60

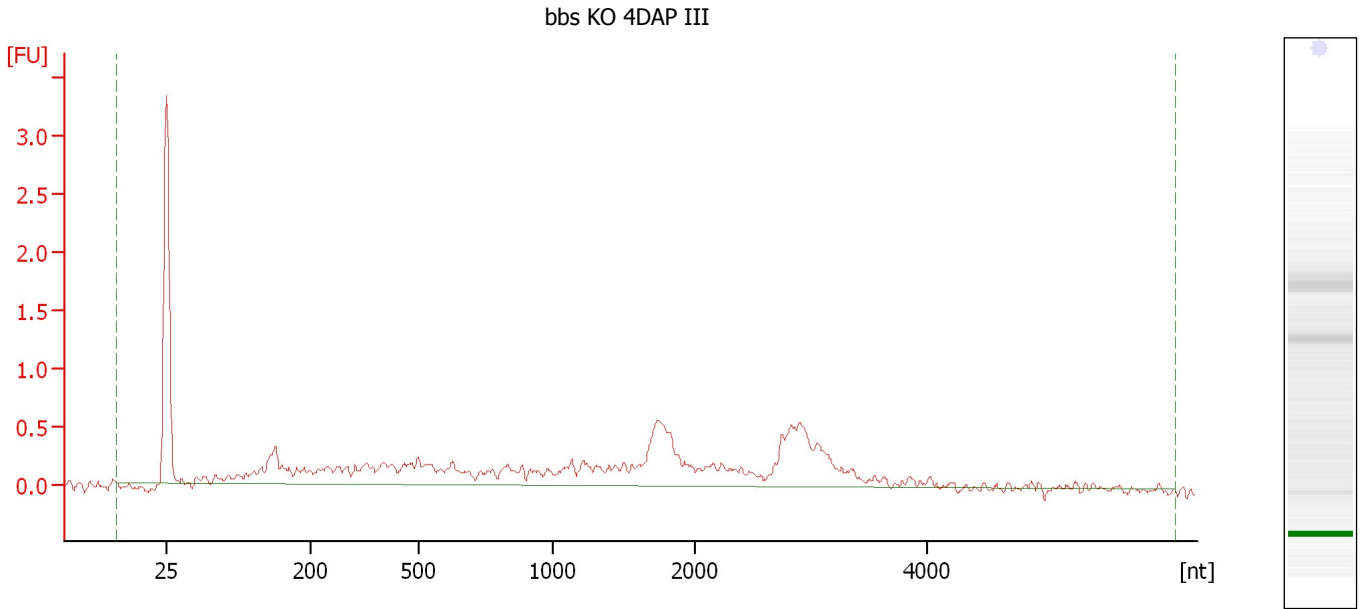
Fragment table for sample 5 : bbs KO 4 DAP II

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,632	2,023	1.5	13.9

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



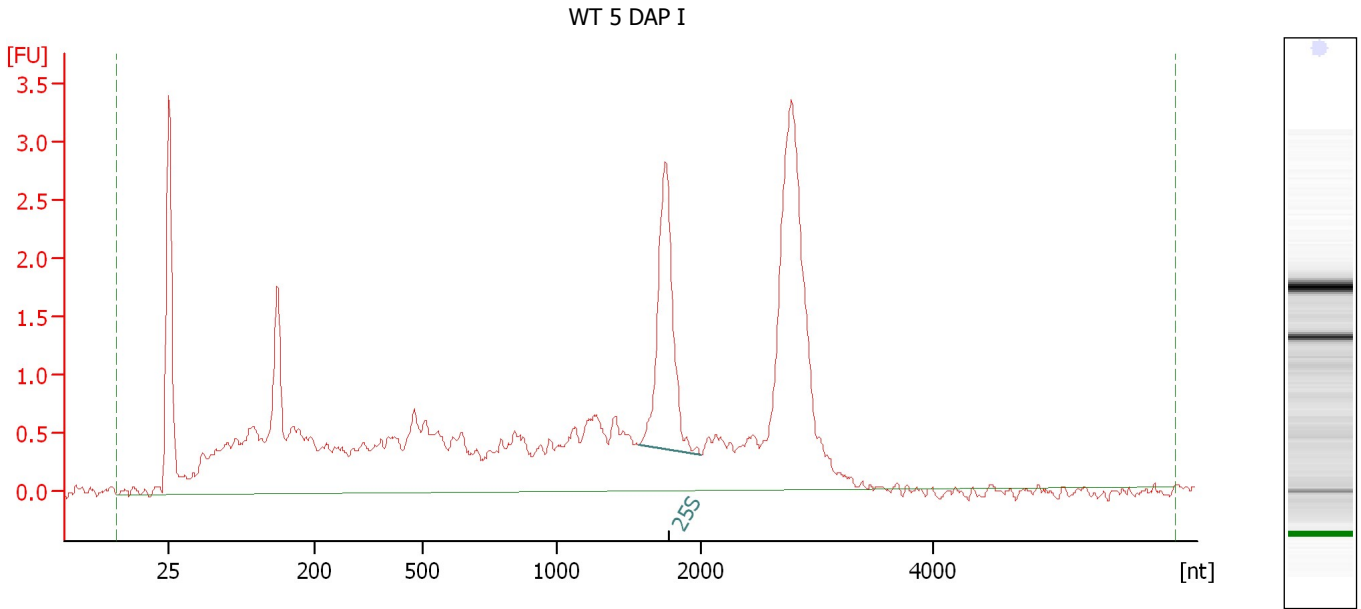
Overall Results for sample 6 : bbs KO 4DAP III

RNA Area:	13.4	RNA Integrity Number (RIN):	1.7 (B.02.08)
RNA Concentration:	89 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 1.70

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WT 5 DAP I

RNA Area: 48.0 RNA Integrity Number (RIN): 3.9 (B.02.08)
RNA Concentration: 318 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 3.90

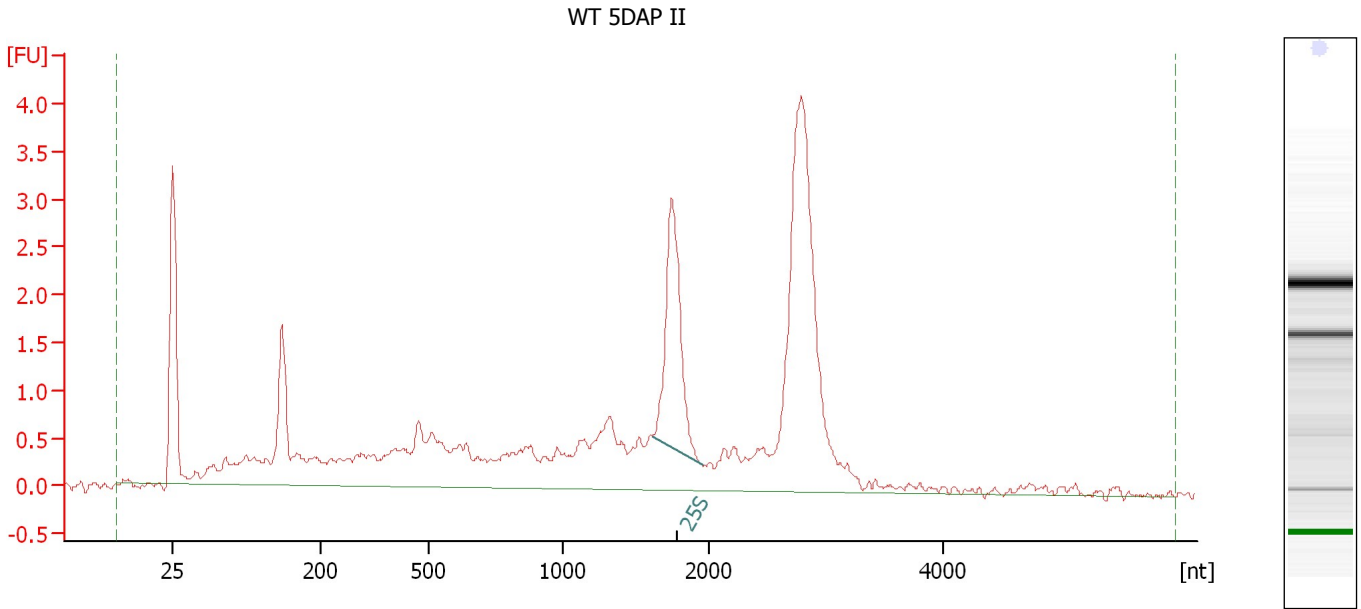
Fragment table for sample 7 : WT 5 DAP I

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,579	2,012	4.4	9.1

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : WT 5DAP II

RNA Area: 45.5 RNA Integrity Number (RIN): 4.3 (B.02.08)
RNA Concentration: 302 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 4.30

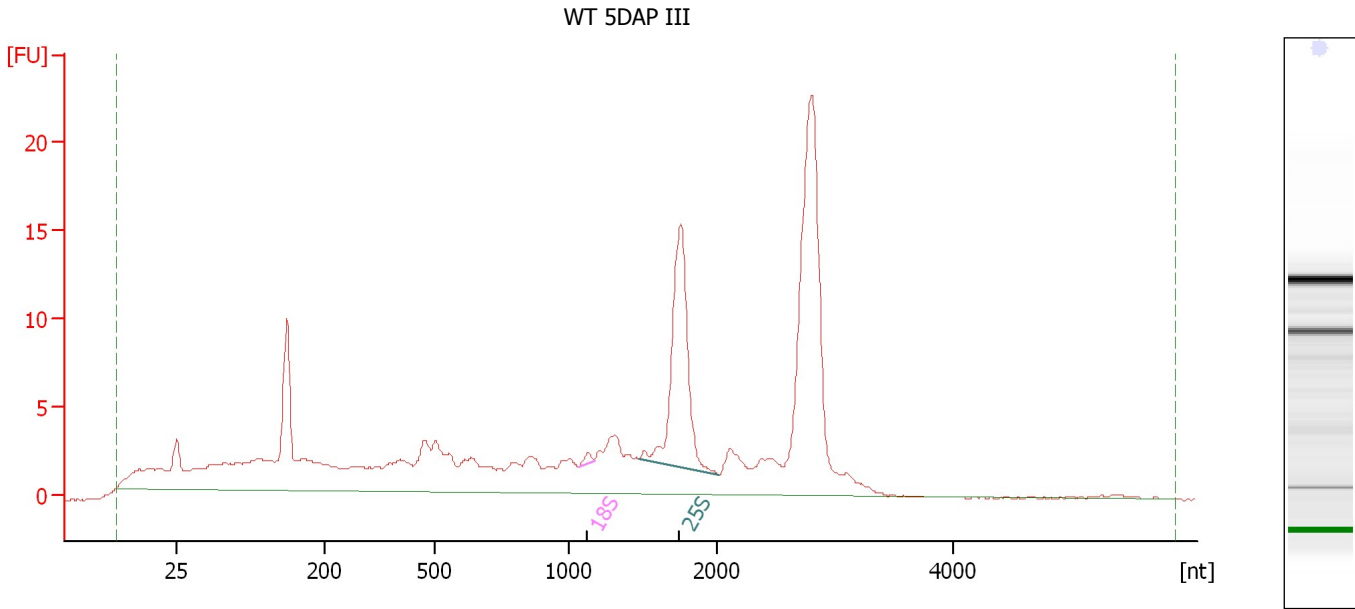
Fragment table for sample 8 : WT 5DAP II

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,609	1,954	4.5	10.0

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WT 5DAP III

RNA Area:	227.8	RNA Integrity Number (RIN):	4.4 (B.02.08)
RNA Concentration:	1,511 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	51.3	Result Flagging Label:	RIN: 4.40

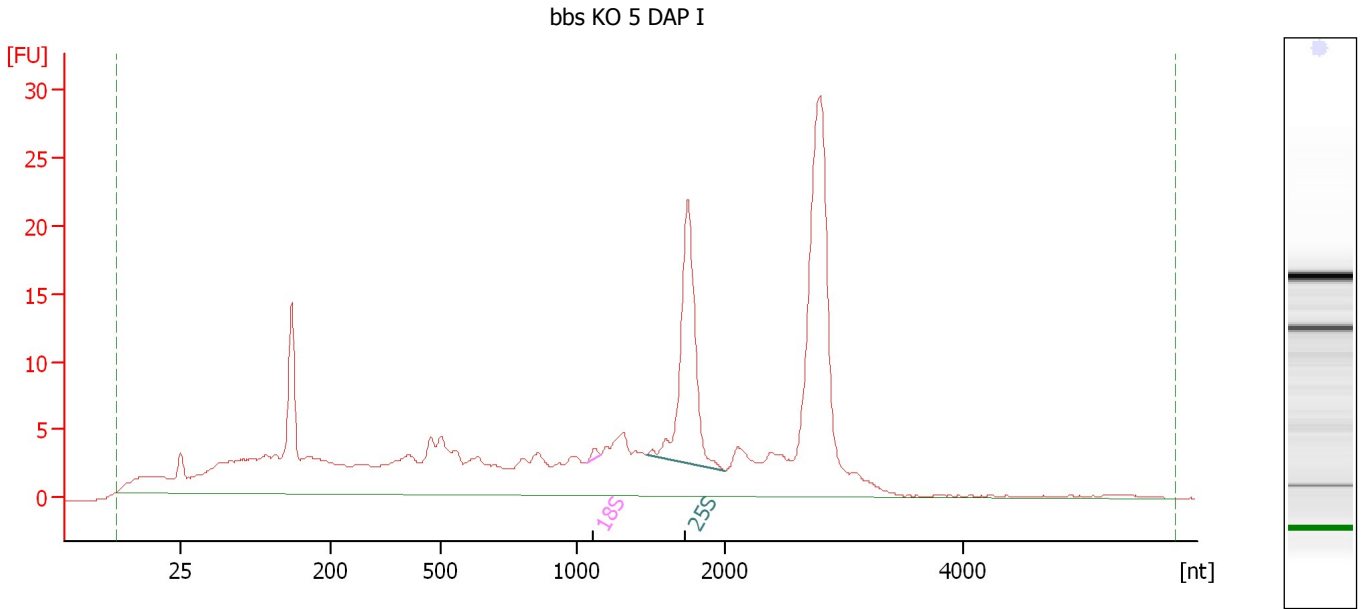
Fragment table for sample 9 : WT 5DAP III

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,068	1,170	0.5	0.2
25S	1,477	2,021	25.7	11.3

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : bbs KO 5 DAP I

RNA Area: 322.9 RNA Integrity Number (RIN): 4 (B.02.08)
RNA Concentration: 2,142 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 56.5 Result Flagging Label: RIN:4

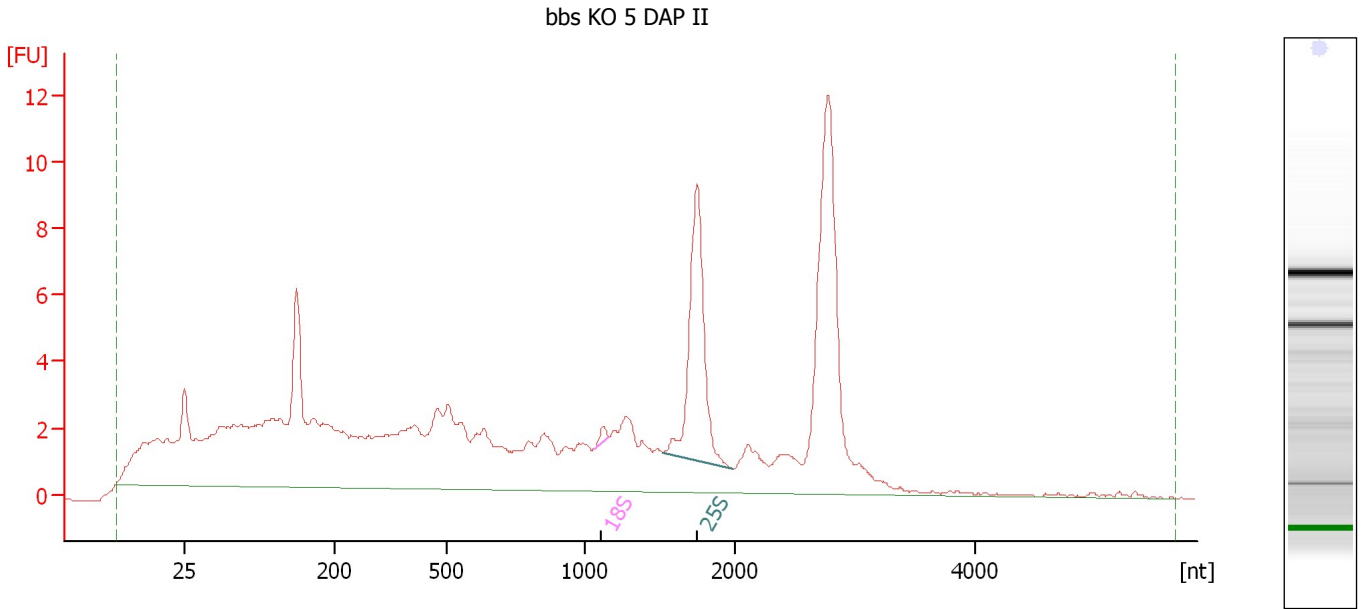
Fragment table for sample 10 : bbs KO 5 DAP I

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,058	1,160	0.6	0.2
25S	1,471	1,999	32.7	10.1

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : bbs KO 5 DAP II

RNA Area: 183.1 RNA Integrity Number (RIN): 3.4 (B.02.08)
RNA Concentration: 1,215 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 37.0 Result Flagging Label: RIN: 3.40

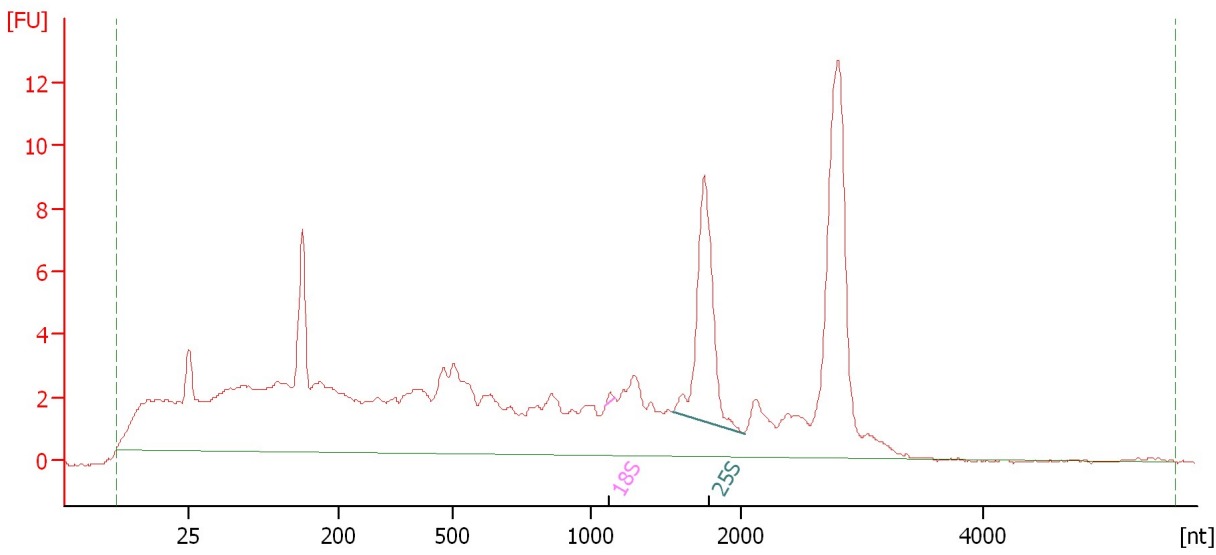
Fragment table for sample 11 : bbs KO 5 DAP II

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,063	1,163	0.4	0.2
25S	1,515	1,988	14.0	7.6

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area: 202.5 RNA Integrity Number (RIN): 3.2 (B.02.08)
RNA Concentration: 1,343 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 76.2 Result Flagging Label: RIN: 3.20

Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,095	1,159	0.2	0.1
25S	1,543	2,026	14.1	7.0

Assay Class: Plant RNA Nano
Data Path: C:\...oanalyzer\2100 expert\data\2018-12-05\2018-12-05_001_IK.xad

Created: 12/5/2018 1:30:56 PM
Modified: 12/5/2018 2:00:29 PM

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