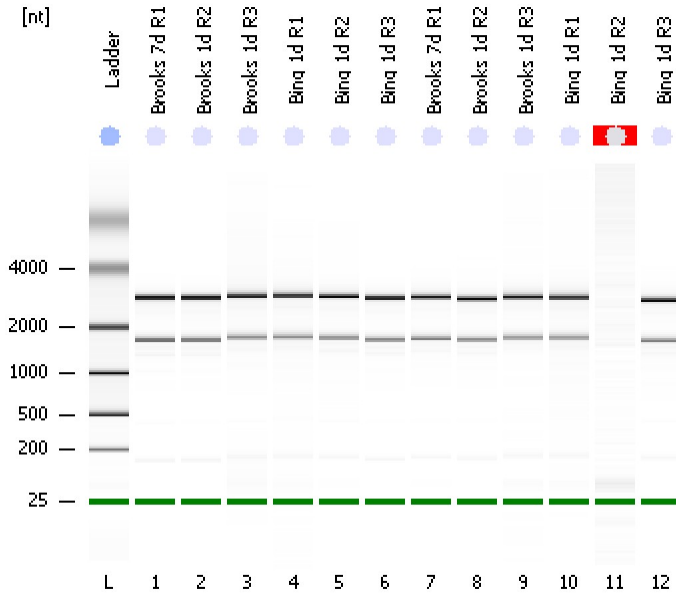


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

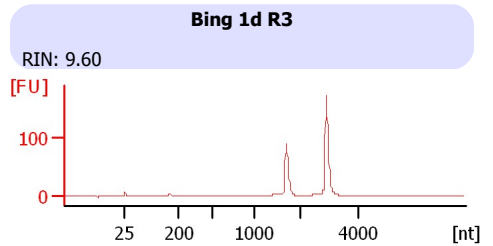
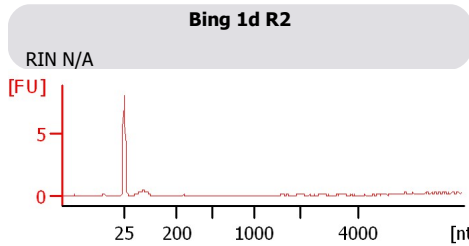
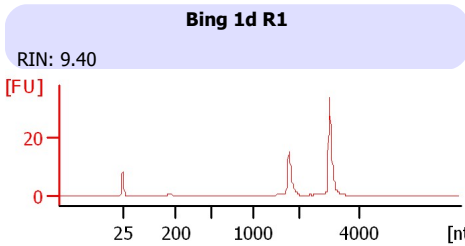
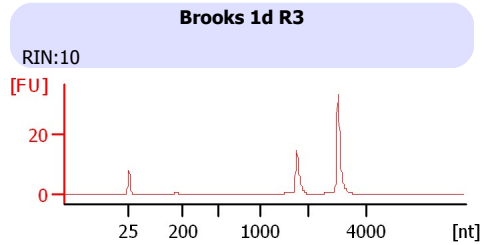
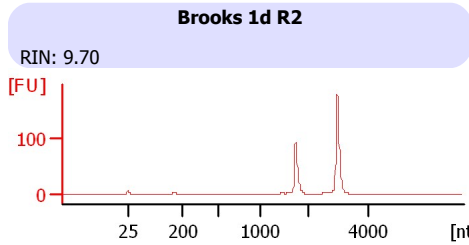
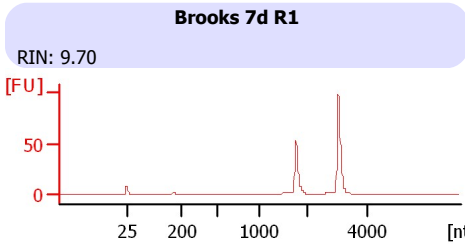
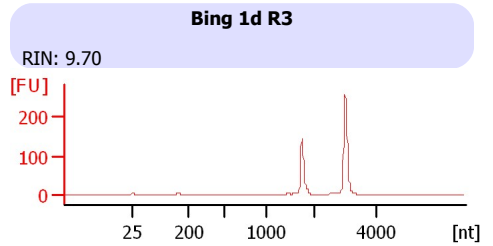
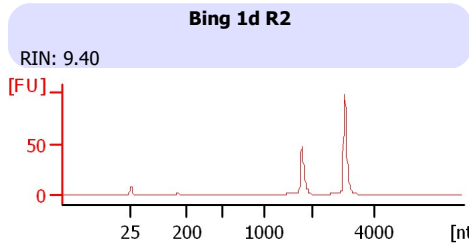
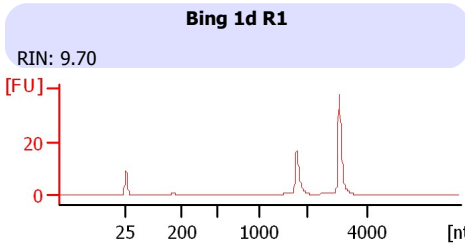
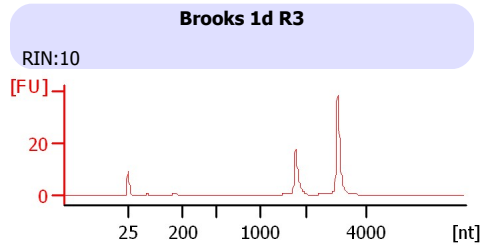
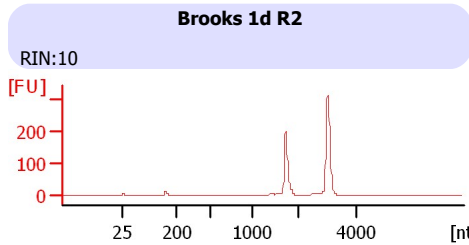
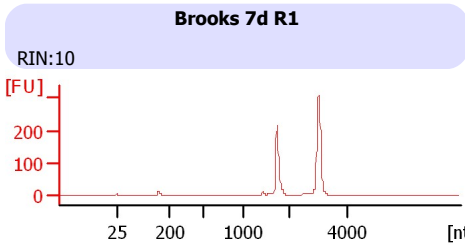
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Plant RNA Nano.xsy

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:



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
 Modified: 10/6/2017 10:53:24 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Brooks 7d R1		✓	RIN:10	
Brooks 1d R2		✓	RIN:10	
Brooks 1d R3		✓	RIN:10	
Bing 1d R1		✓	RIN: 9.70	
Bing 1d R2		✓	RIN: 9.40	
Bing 1d R3		✓	RIN: 9.70	
Brooks 7d R1		✓	RIN: 9.70	
Brooks 1d R2		✓	RIN: 9.70	
Brooks 1d R3		✓	RIN:10	
Bing 1d R1		✓	RIN: 9.40	
Bing 1d R2		✓	RIN N/A	
Bing 1d R3		✓	RIN: 9.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 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/ 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

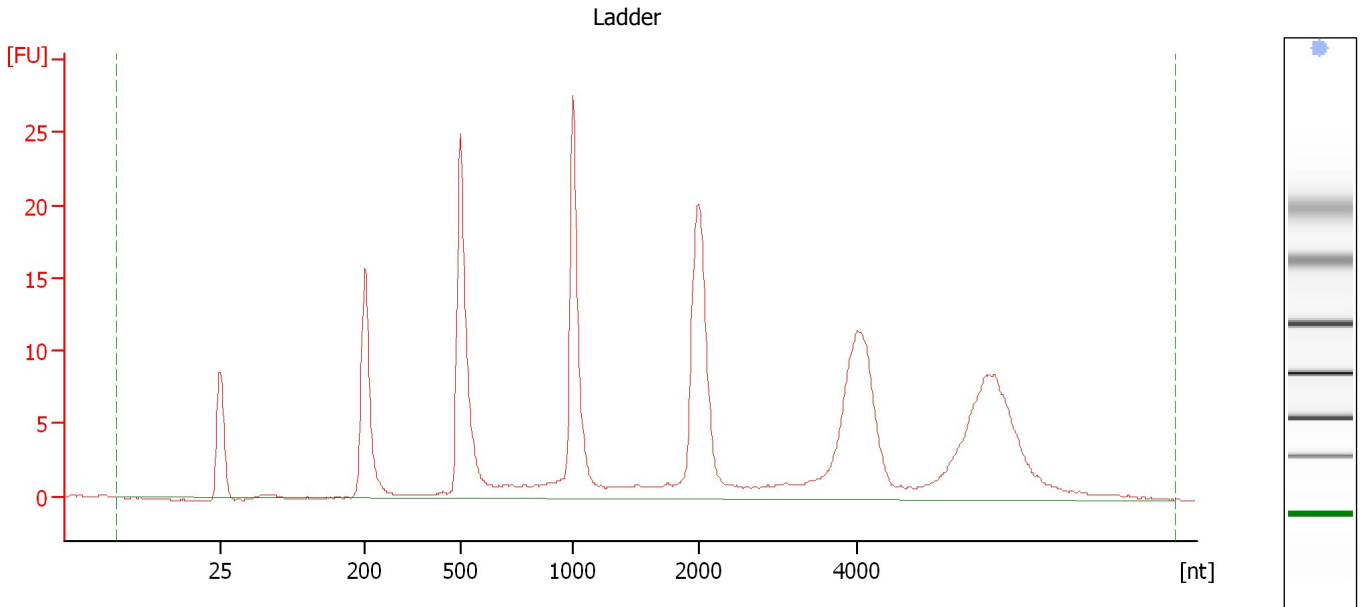
Ladder

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\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary



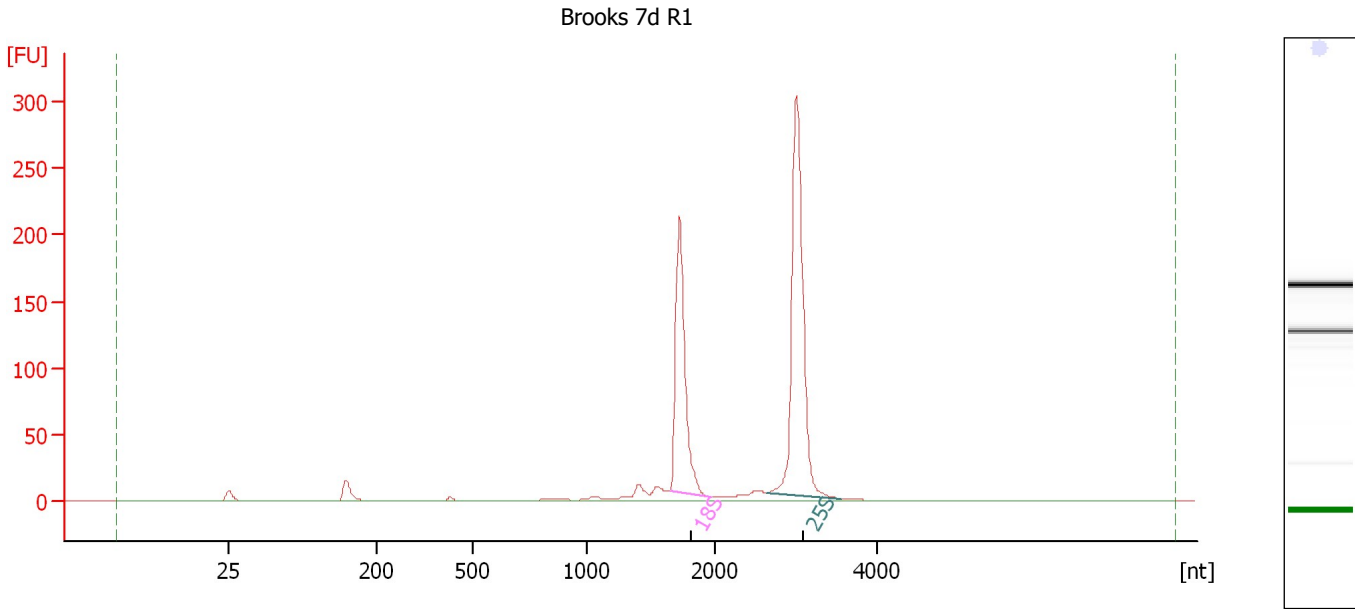
Overall Results for Ladder

RNA Area:	234.5	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\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Brooks 7d R1

RNA Area: 741.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 474 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.6 Result Flagging Label: RIN:10

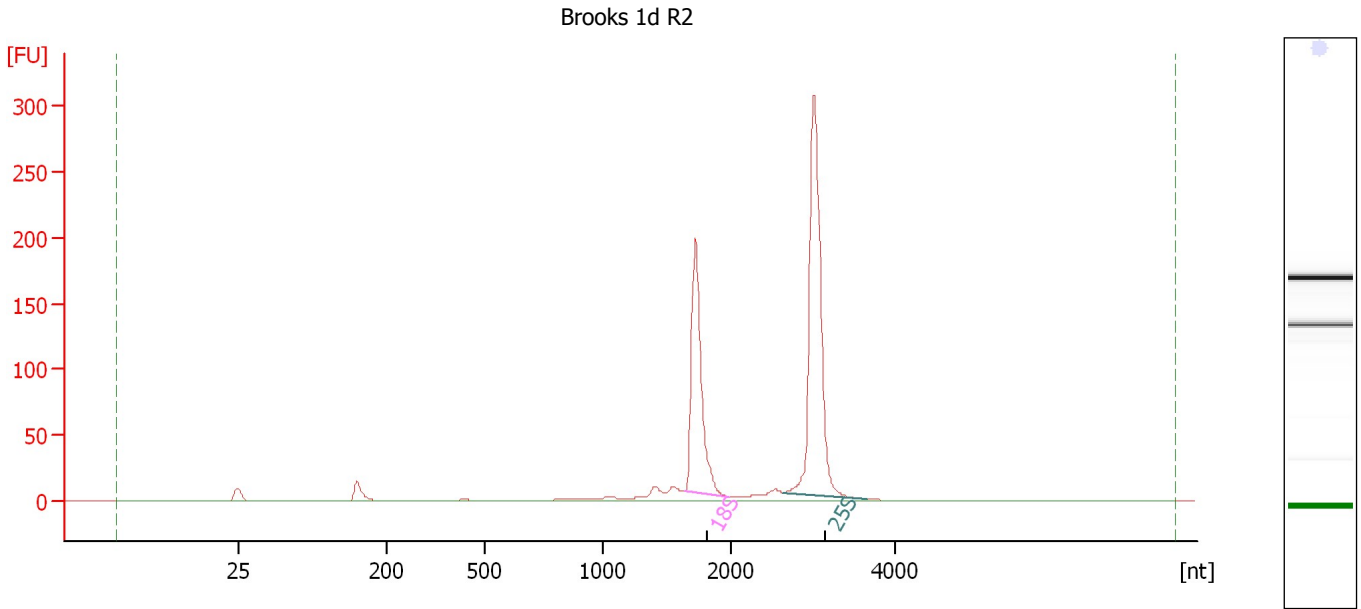
Fragment table for sample 1 : Brooks 7d R1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	1,963	223.1	30.1
25S	2,642	3,566	357.7	48.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Brooks 1d R2

RNA Area: 734.0 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 470 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.7 Result Flagging Label: RIN:10

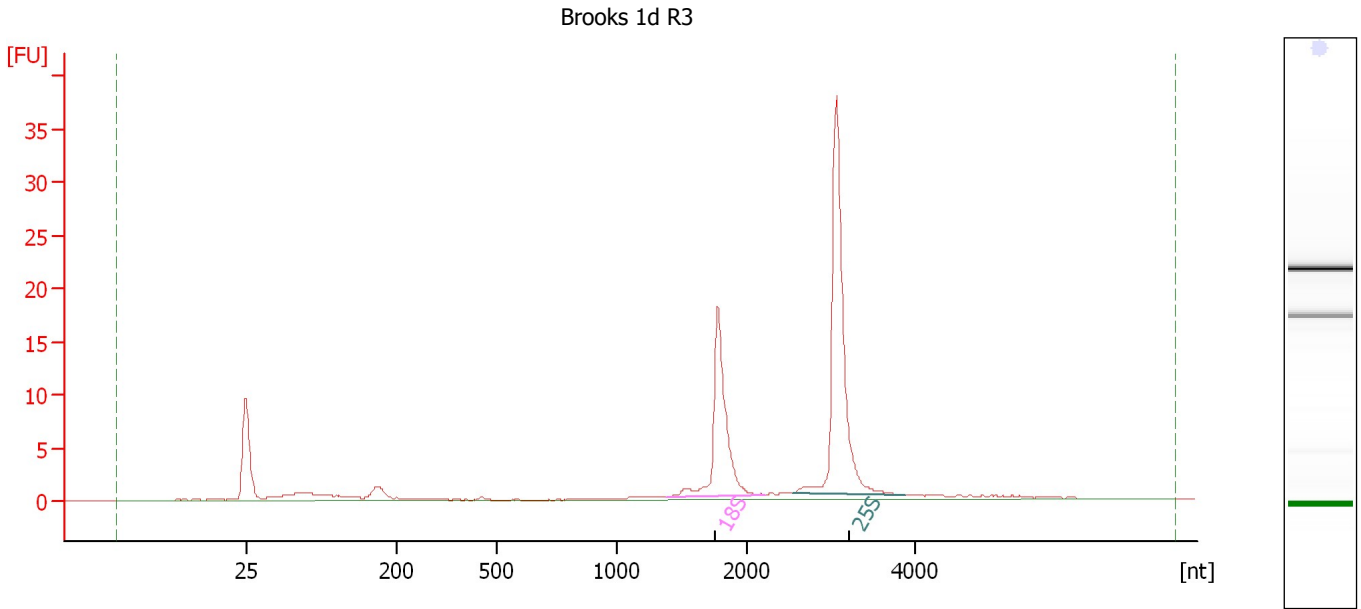
Fragment table for sample 2 : Brooks 1d R2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,986	213.3	29.1
25S	2,627	3,654	355.5	48.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Brooks 1d R3

RNA Area: 97.2 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 62 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.7 Result Flagging Label: RIN:10

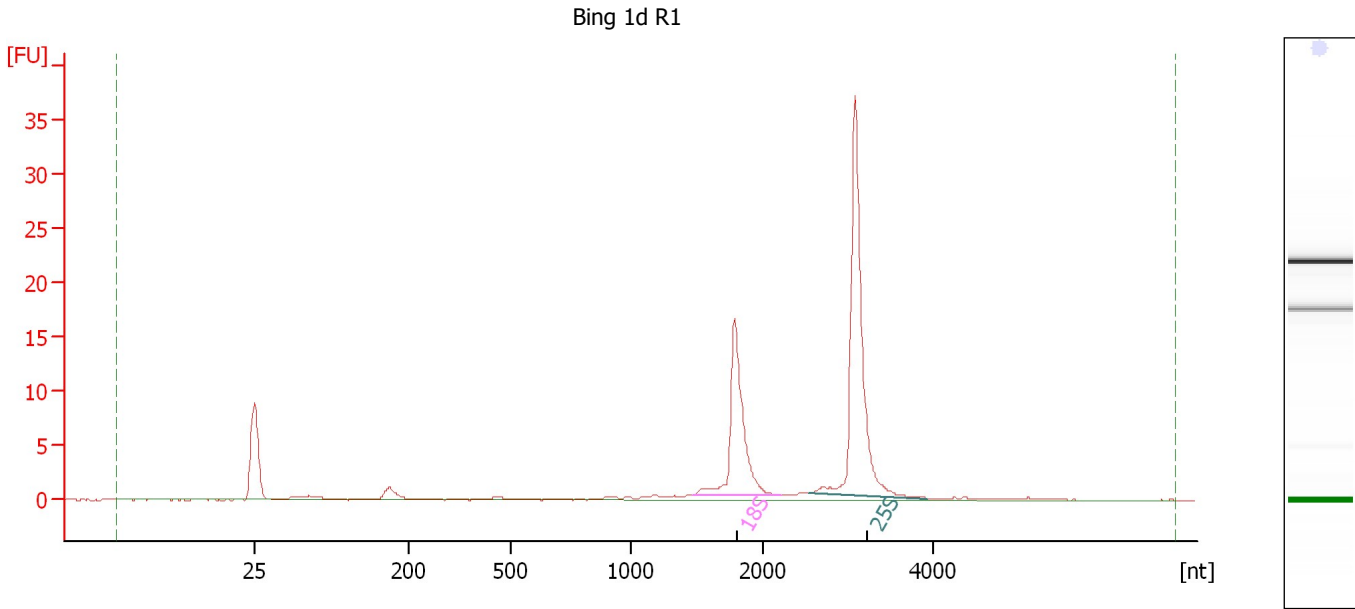
Fragment table for sample 3 : Brooks 1d R3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,388	2,217	24.5	25.2
25S	2,549	3,892	41.0	42.2

Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
 Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Bing 1d R1

RNA Area:	81.8	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	52 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	1.7	Result Flagging Label:	RIN: 9.70

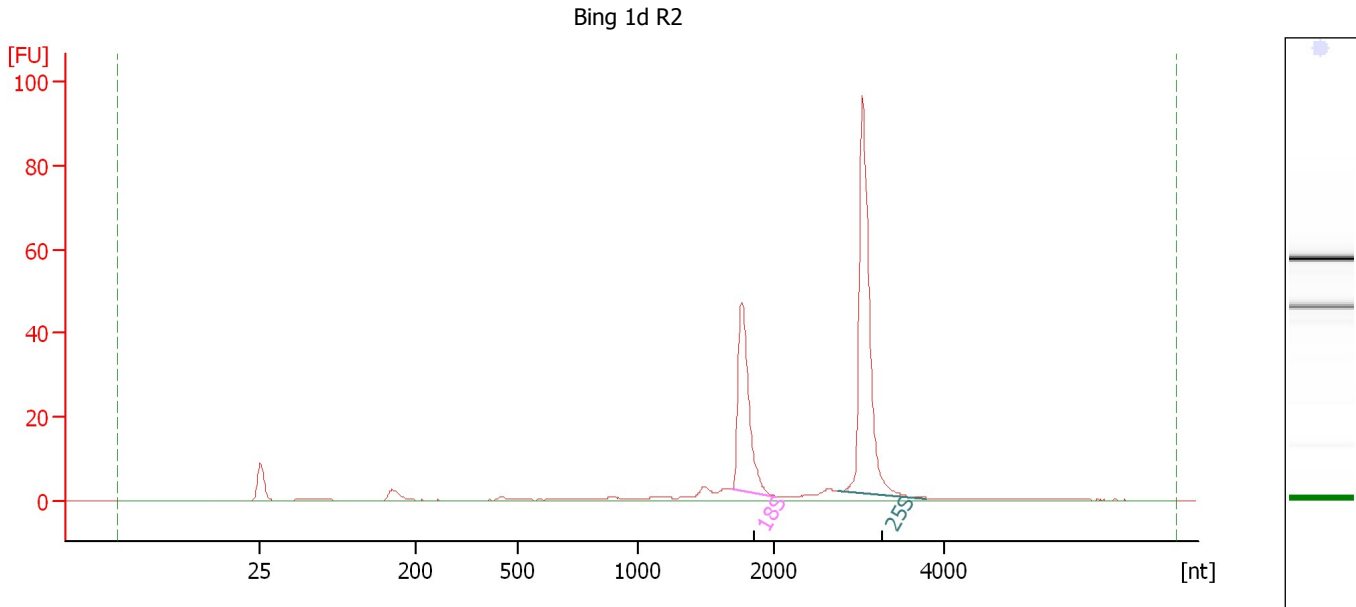
Fragment table for sample 4 : Bing 1d R1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,467	2,196	23.0	28.1
25S	2,536	3,922	39.3	48.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Bing 1d R2

RNA Area: 204.1 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 131 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 9.40

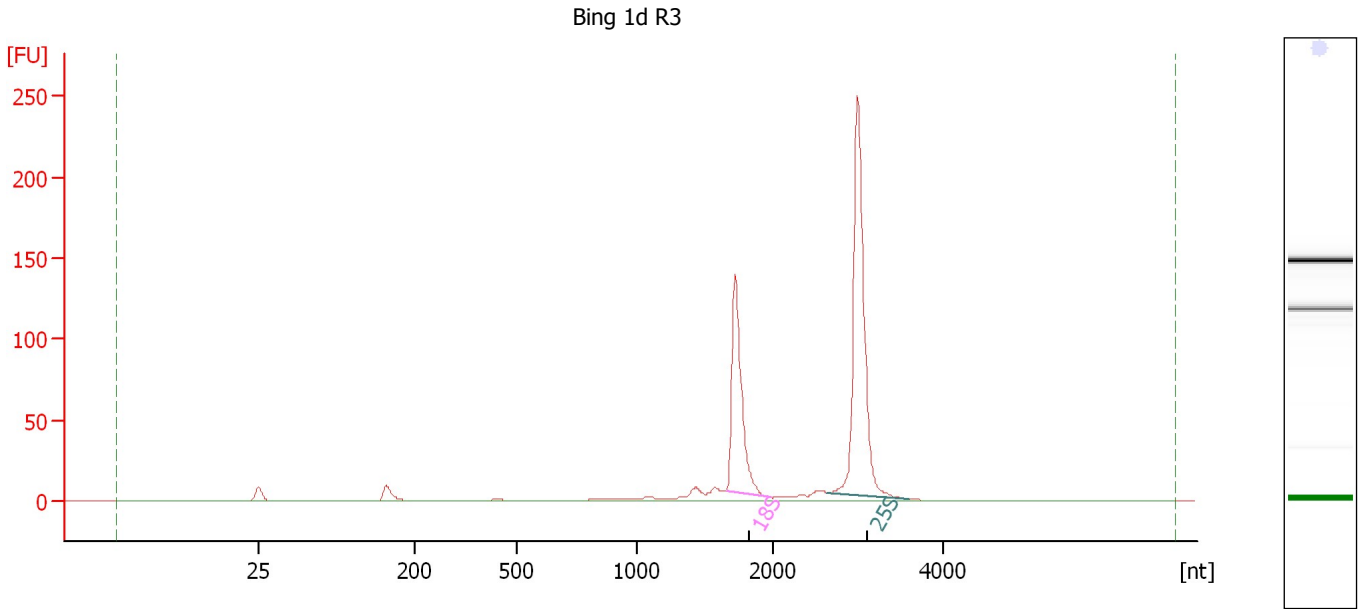
Fragment table for sample 5 : Bing 1d R2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,697	2,024	53.0	26.0
25S	2,749	3,799	93.9	46.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Bing 1d R3

RNA Area: 534.4 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 342 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 9.70

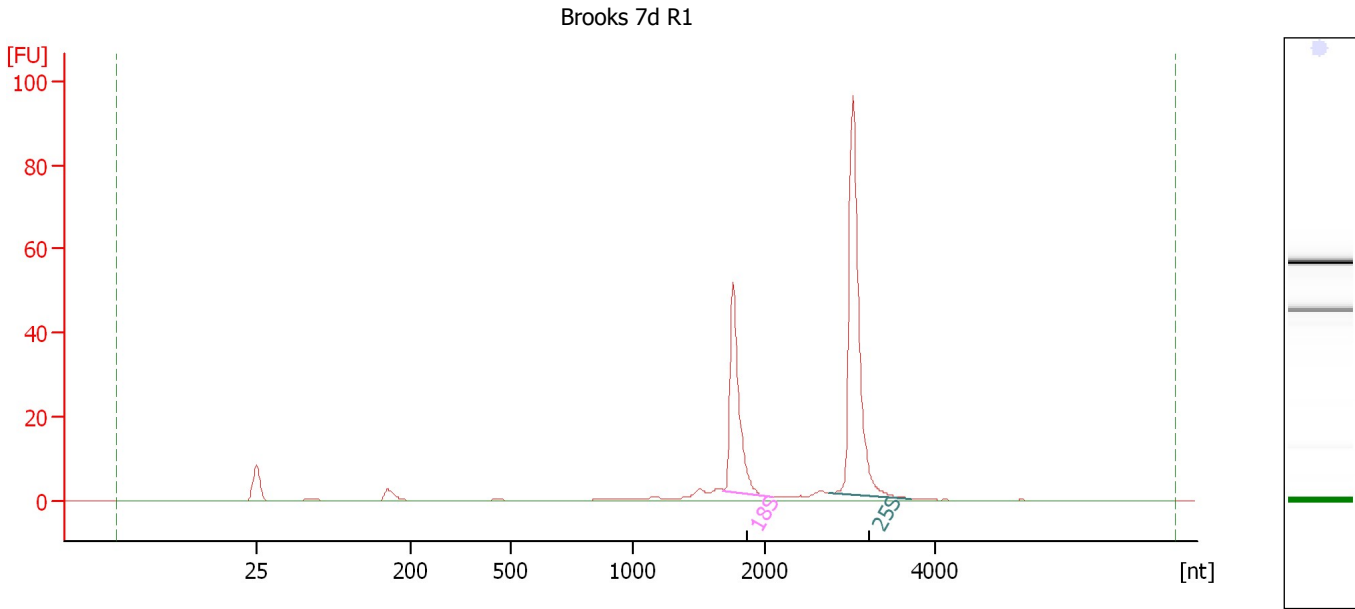
Fragment table for sample 6 : Bing 1d R3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,991	146.2	27.4
25S	2,649	3,599	259.8	48.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Brooks 7d R1

RNA Area: 194.4 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 124 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 9.70

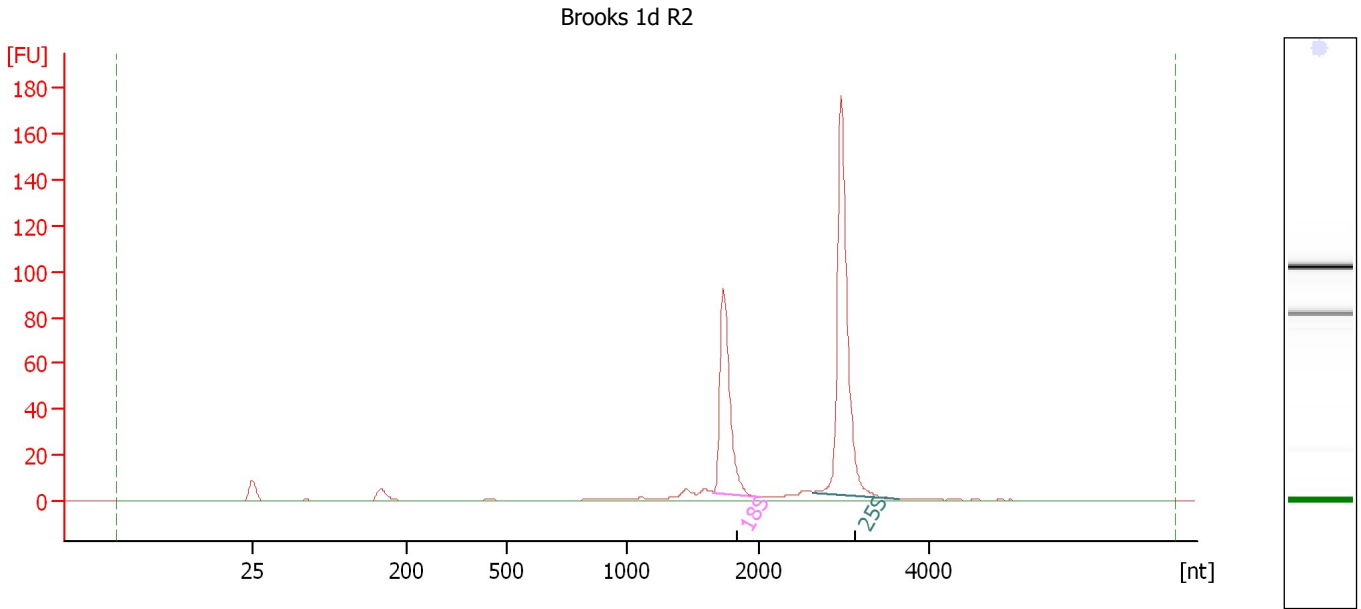
Fragment table for sample 7 : Brooks 7d R1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,685	2,071	50.4	25.9
25S	2,738	3,706	90.8	46.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Brooks 1d R2

RNA Area: 360.7 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 231 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.8 Result Flagging Label: RIN: 9.70

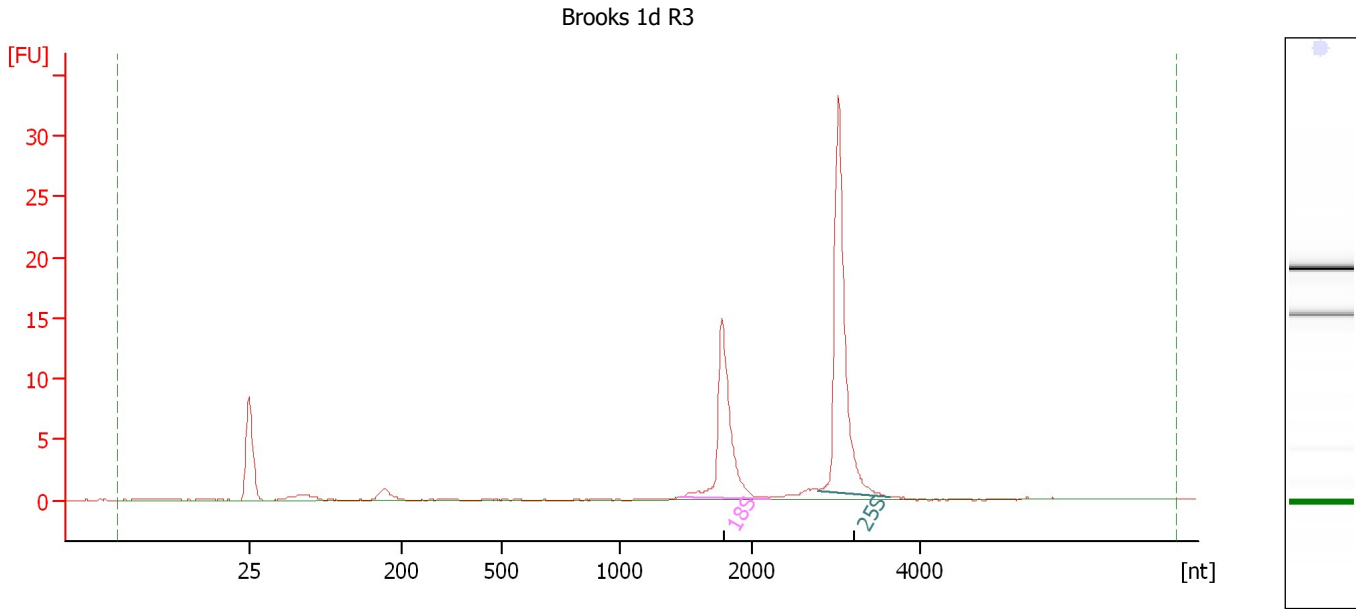
Fragment table for sample 8 : Brooks 1d R2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	2,005	97.2	26.9
25S	2,638	3,636	176.7	49.0

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Brooks 1d R3

RNA Area: 64.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 41 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.6 Result Flagging Label: RIN:10

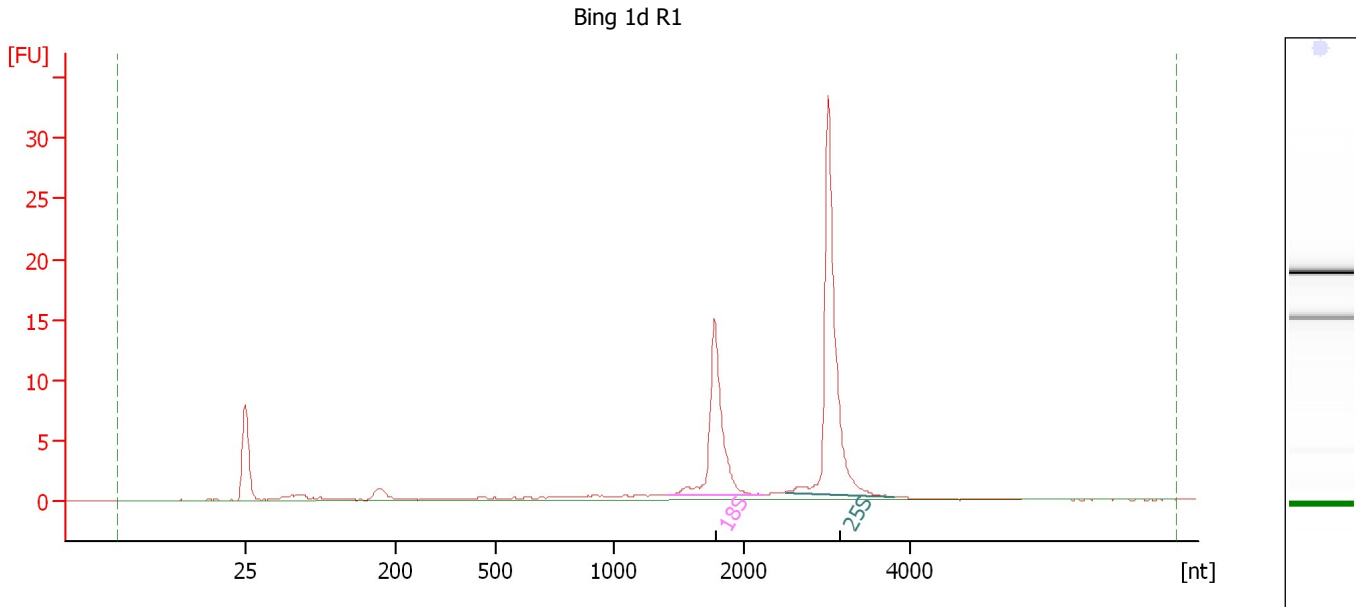
Fragment table for sample 9 : Brooks 1d R3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,449	2,205	20.2	31.3
25S	2,791	3,632	32.8	50.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Bing 1d R1

RNA Area: 78.5 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 50 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.7 Result Flagging Label: RIN: 9.40

Fragment table for sample 10 : Bing 1d R1

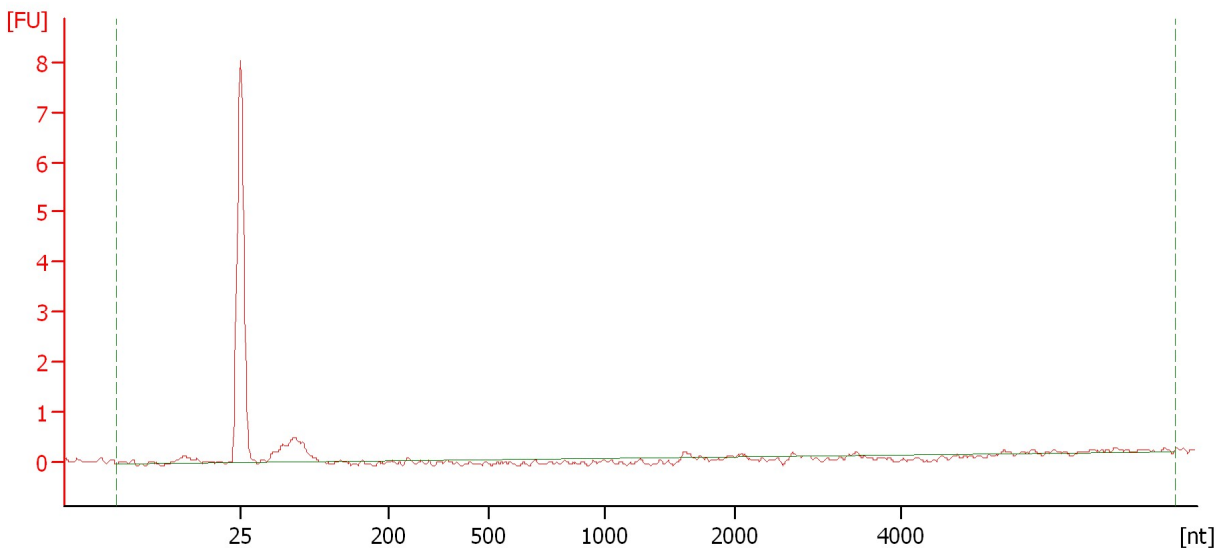
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,409	2,241	20.2	25.8
25S	2,511	3,808	35.4	45.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...

Bing 1d R2



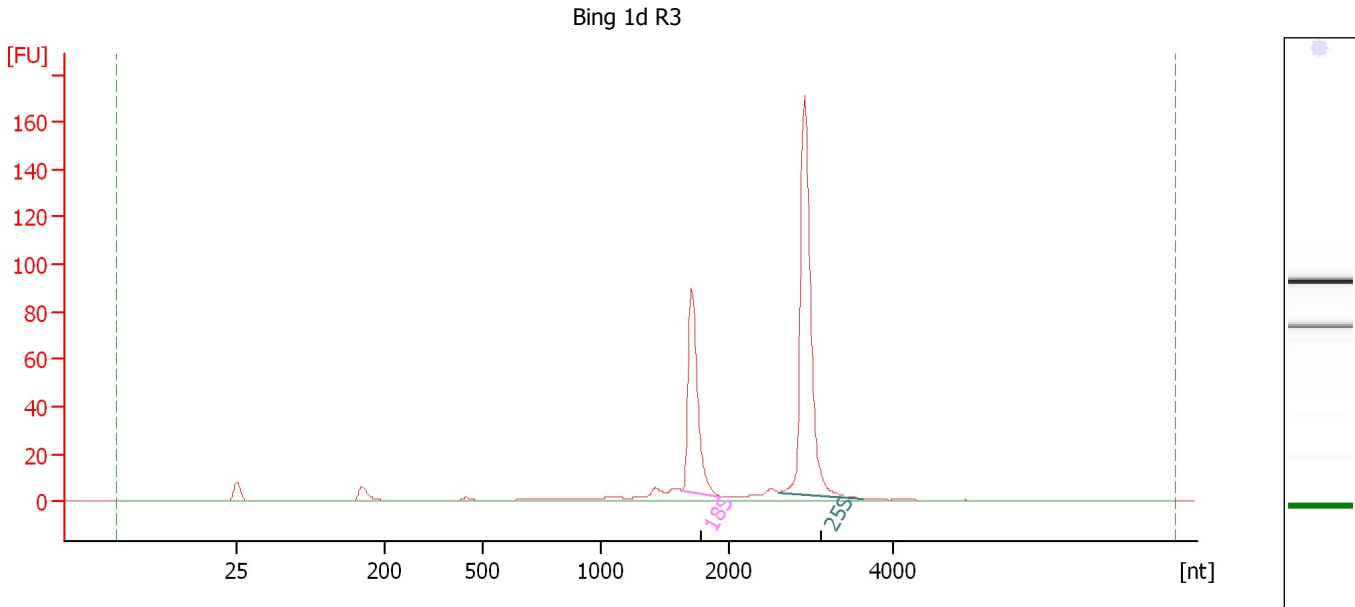
Overall Results for sample 11 : Bing 1d R2

RNA Area:	4.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Bing 1d R3

RNA Area: 366.8 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 235 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 1.9 Result Flagging Label: RIN: 9.60

Fragment table for sample 12 : Bing 1d R3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	1,943	92.9	25.3
25S	2,615	3,643	177.8	48.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-06\2017-10-06_001.xad

Created: 10/6/2017 10:29:32 AM
Modified: 10/6/2017 10:53:24 AM

Gel Image

