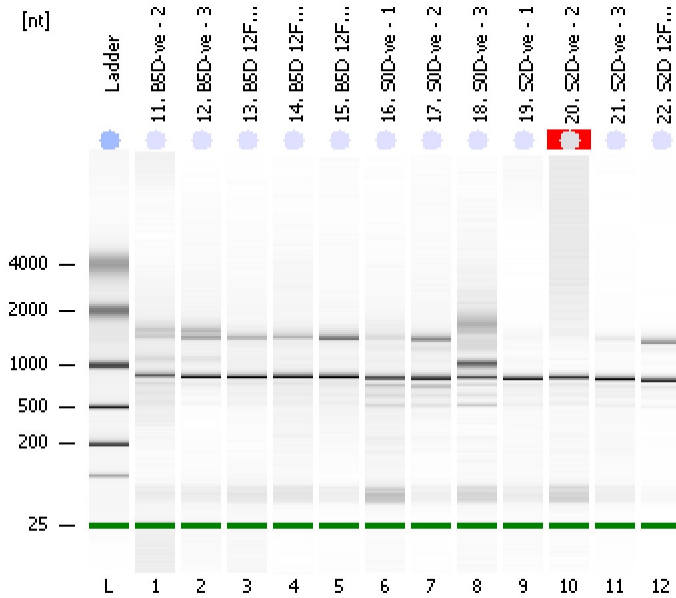


Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 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

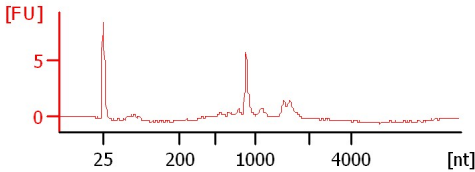
Assay Class: Plant RNA Nano
Version: 1.3
Assay Comments: Total RNA Analysis ng sensitivity (Plant)

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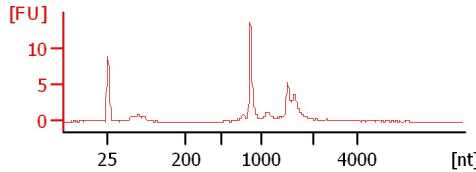
Chip Information:

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

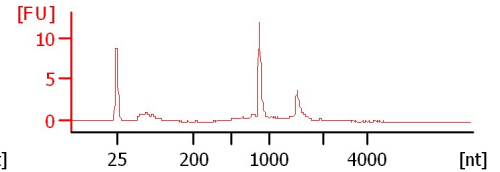
11. B5D-ve - 2
hiSeq_1001 RNA QC_Resubmissions
RIN: 2.50



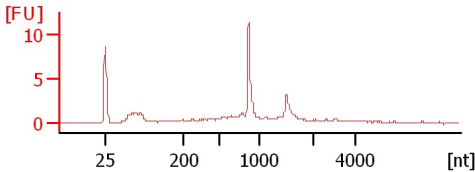
12. B5D-ve - 3
hiSeq_1001 RNA QC_Resubmissions
RIN: 9.30



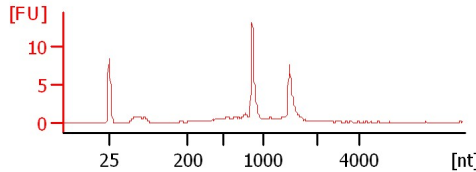
13. B5D 12F - 1
hiSeq_1001 RNA QC_Resubmissions
RIN: 8.90



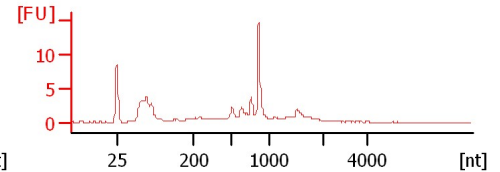
14. B5D 12F - 2
hiSeq_1001 RNA QC_Resubmissions
RIN: 7.40



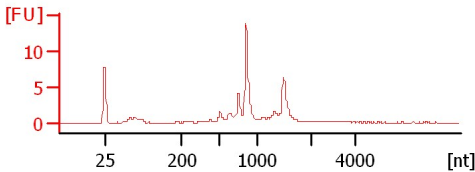
15. B5D 12F - 3
hiSeq_1001 RNA QC_Resubmissions
RIN: 8.10



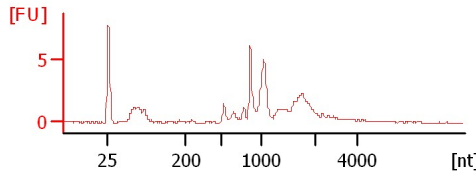
16. S0D-ve - 1
hiSeq_1001 RNA QC_Resubmissions
RIN: 6.60



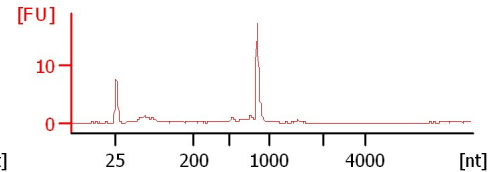
17. S0D-ve - 2
hiSeq_1001 RNA QC_Resubmissions
RIN: 7.50



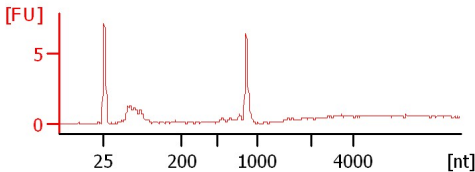
18. S0D-ve - 3
hiSeq_1001 RNA QC_Resubmissions
RIN: 7.50



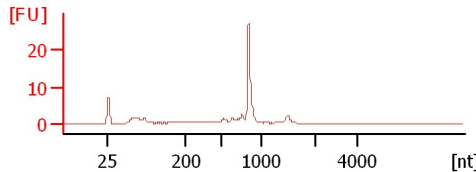
19. S2D-ve - 1
hiSeq_1001 RNA QC_Resubmissions
RIN: 7.50



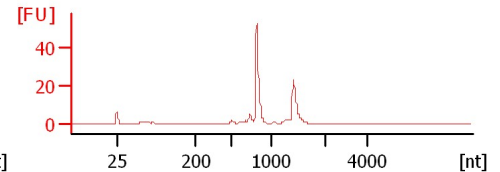
20. S2D-ve - 2
hiSeq_1001 RNA QC_Resubmissions
RIN N/A



21. S2D-ve - 3
hiSeq_1001 RNA QC_Resubmissions
RIN: 7.10
















22. S2D 12F - 1
hiSeq_1001 RNA QC_Resubmissions
RIN: 8.80



Assay Class: Plant RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
 Modified: 7/11/2017 1:49:48 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
11. B5D-ve - 2	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 2.50	
12. B5D-ve - 3	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 9.30	
13. B5D 12F - 1	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 8.90	
14. B5D 12F - 2	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 7.40	
15. B5D 12F - 3	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 8.10	
16. S0D-ve - 1	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 6.60	
17. S0D-ve - 2	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 7.50	
18. S0D-ve - 3	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 7.50	
19. S2D-ve - 1	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 7.50	
20. S2D-ve - 2	hiSeq_1001 RNA QC_Resubmissions	✓	RIN N/A	
21. S2D-ve - 3	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 7.10	
22. S2D 12F- 1	hiSeq_1001 RNA QC_Resubmissions	✓	RIN: 8.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 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

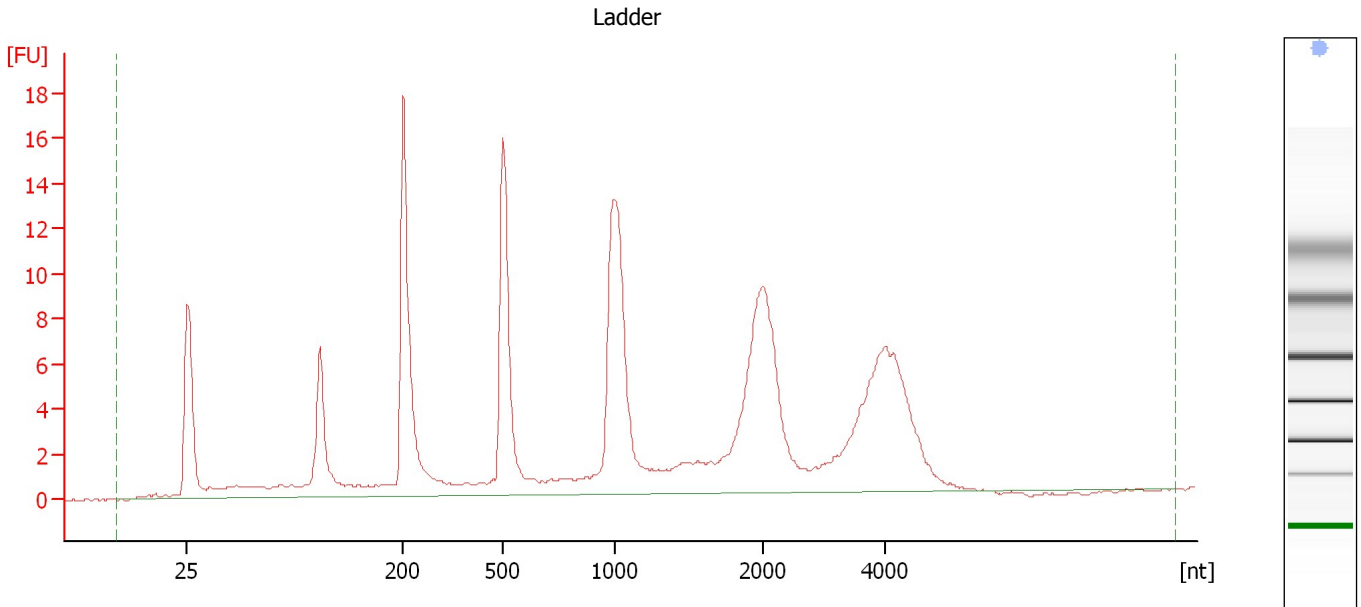
Ladder

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\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary



Overall Results for Ladder

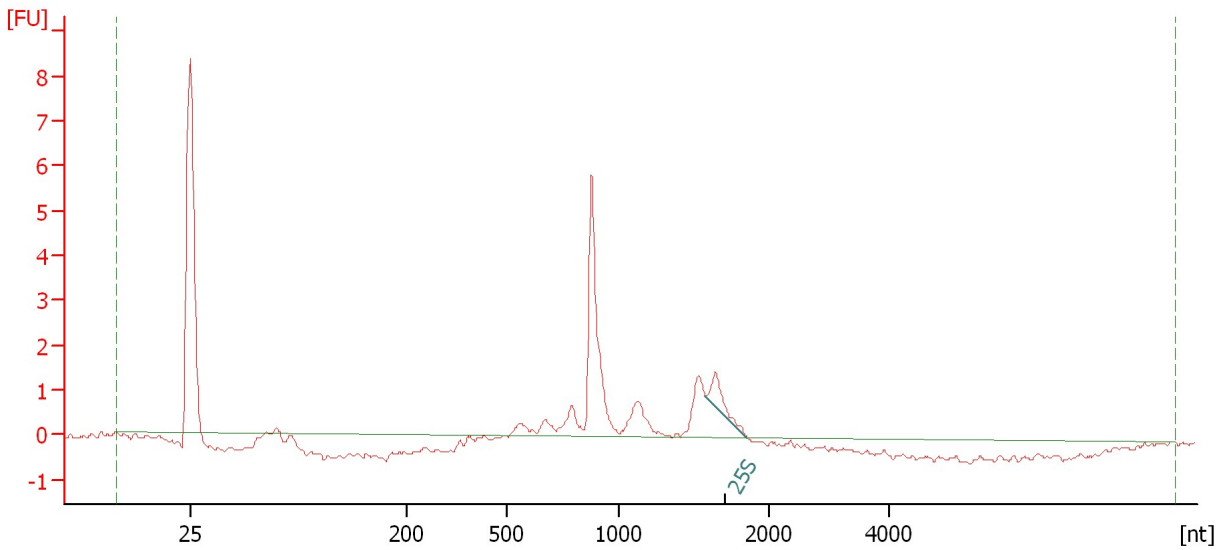
RNA Area:	188.2	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

11. B5D-ve - 2 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 1 : 11. B5D-ve - 2

RNA Area:	15.1	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Fragment table for sample 1 : 11. B5D-ve - 2

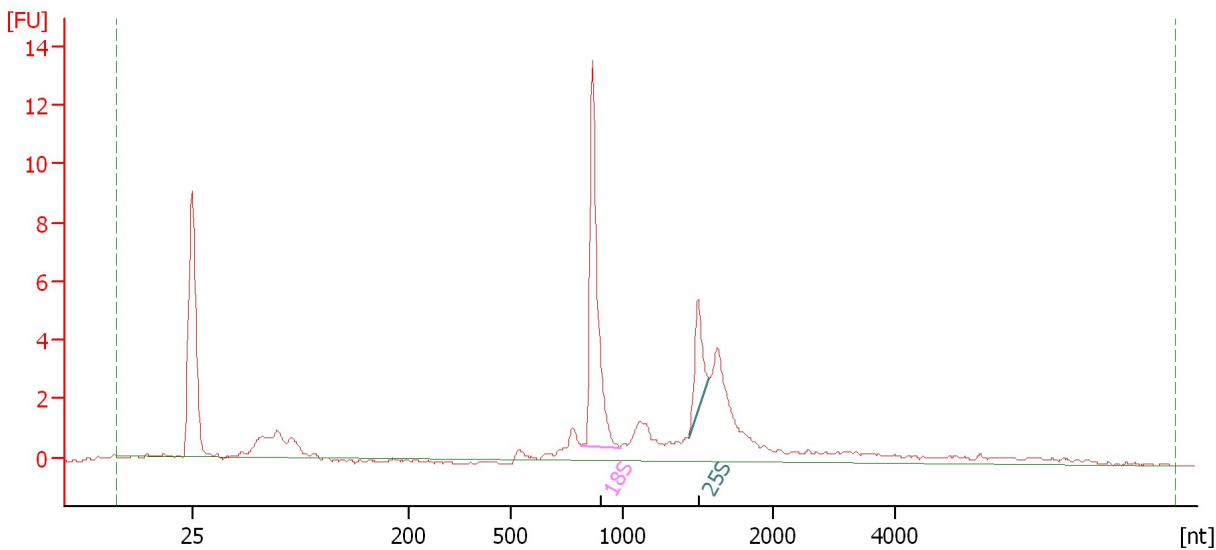
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
25S	1,581	1,861	0.9	6.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

12. B5D-ve - 3 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 2 : 12. B5D-ve - 3

RNA Area: 53.0 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 42 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.3 Result Flagging Label: RIN: 9.30

Fragment table for sample 2 : 12. B5D-ve - 3

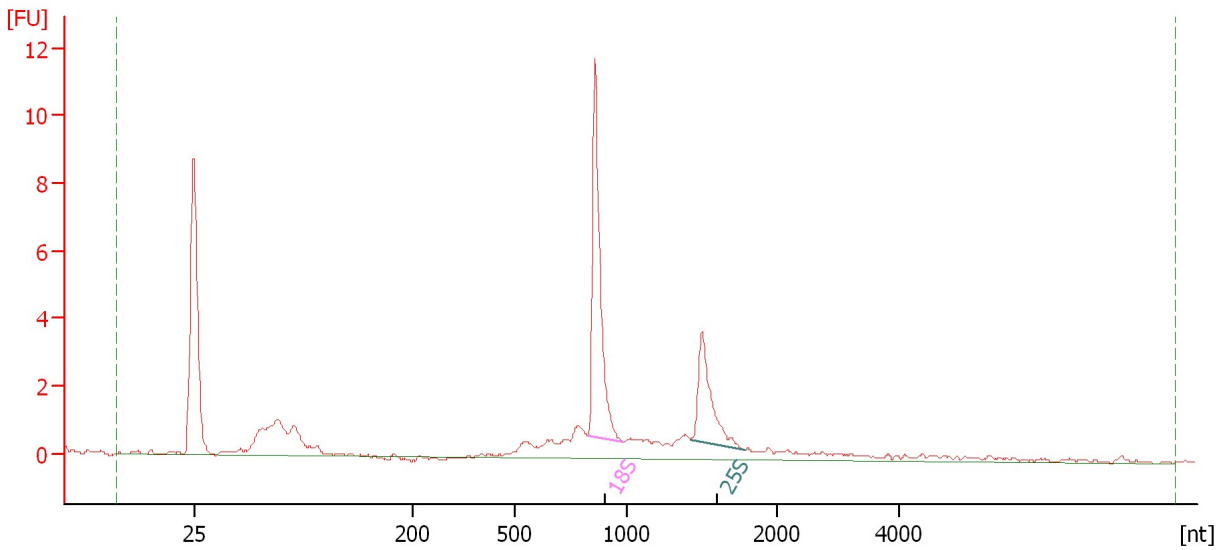
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	816	988	12.9	24.3
25S	1,438	1,574	3.2	6.1

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

13. B5D 12F - 1 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 3 : 13. B5D 12F - 1

RNA Area:	41.7	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	33 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.5	Result Flagging Label:	RIN: 8.90

Fragment table for sample 3 : 13. B5D 12F - 1

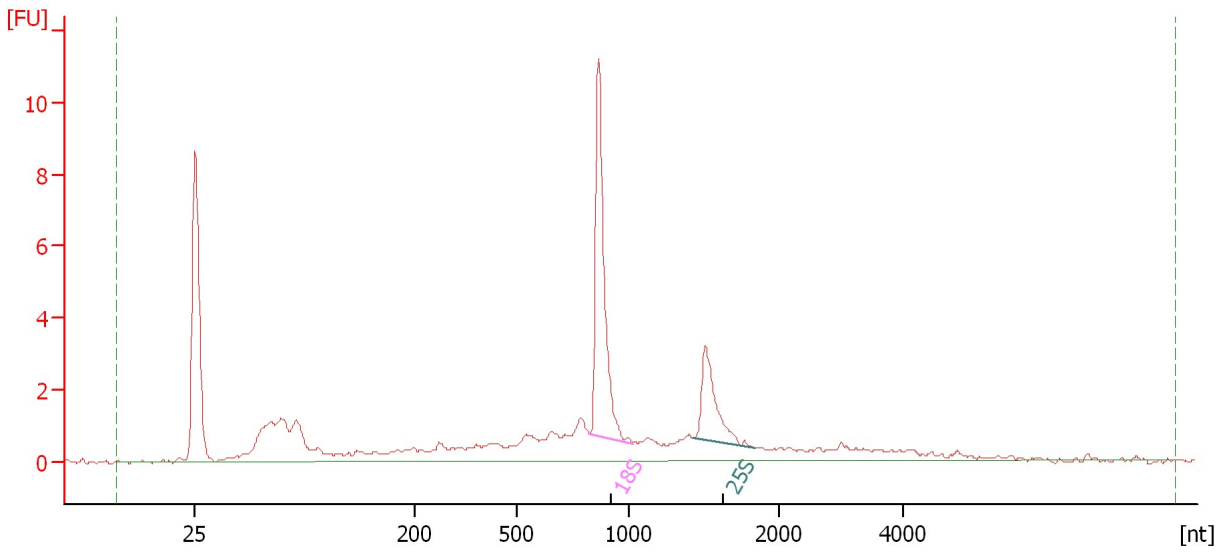
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	827	984	10.8	25.8
25S	1,424	1,779	4.9	11.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

14. B5D 12F - 2 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 4 : 14. B5D 12F - 2

RNA Area: 57.8 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 46 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.4 Result Flagging Label: RIN: 7.40

Fragment table for sample 4 : 14. B5D 12F - 2

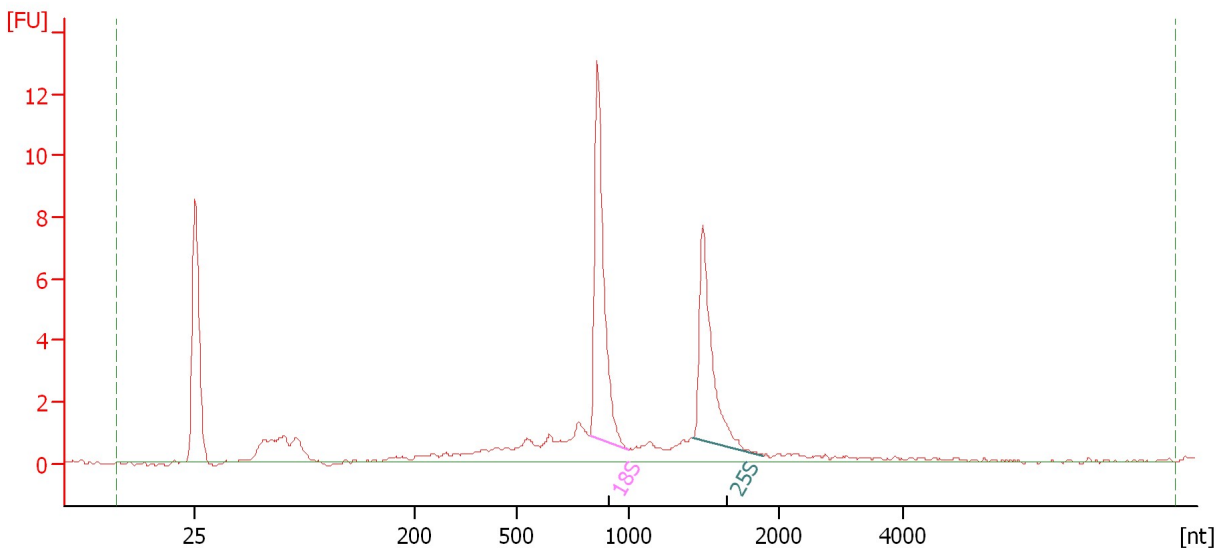
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	824	1,020	11.0	19.0
25S	1,424	1,835	4.3	7.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

15. B5D 12F - 3 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 5 : 15. B5D 12F - 3

RNA Area: 53.5 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 43 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.7 Result Flagging Label: RIN: 8.10

Fragment table for sample 5 : 15. B5D 12F - 3

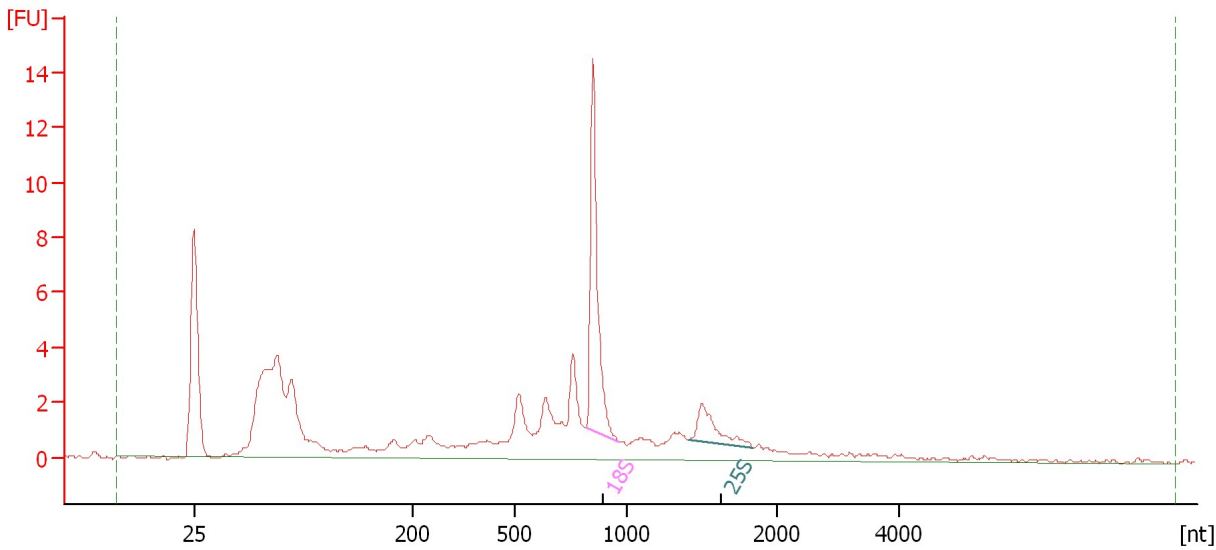
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	828	999	13.7	25.5
25S	1,424	1,891	9.9	18.5

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

16. S0D-ve - 1 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 6 : 16. S0D-ve - 1

RNA Area: 86.5 RNA Integrity Number (RIN): 6.6 (B.02.08)
RNA Concentration: 69 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.2 Result Flagging Label: RIN: 6.60

Fragment table for sample 6 : 16. S0D-ve - 1

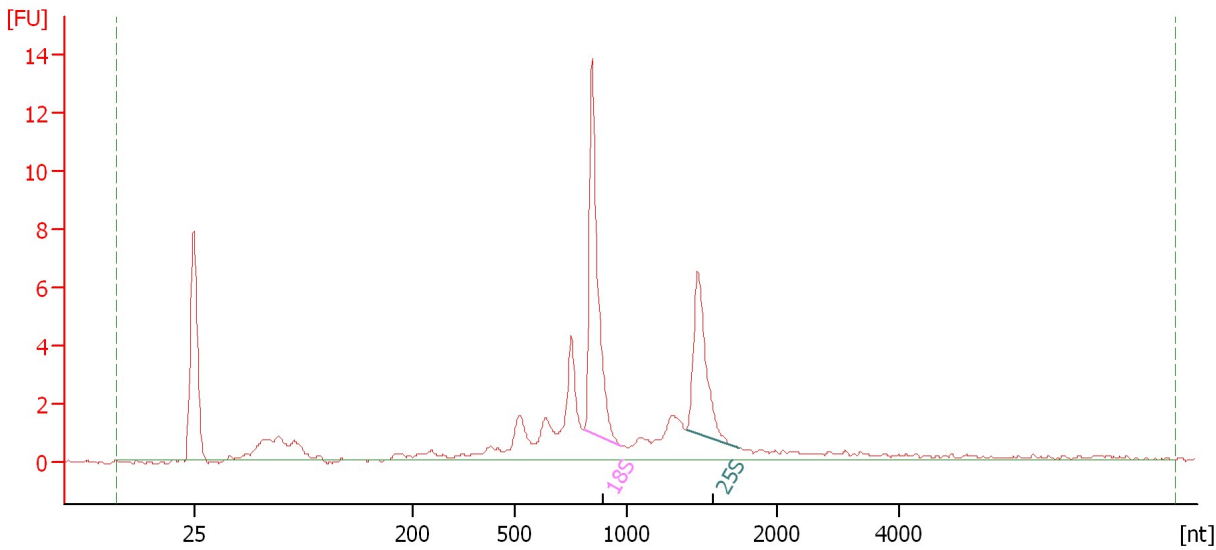
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	818	965	12.3	14.3
25S	1,417	1,843	3.0	3.4

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

17. S0D-ve - 2 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 7 : 17. S0D-ve - 2

RNA Area: 62.7 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 50 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 7.50

Fragment table for sample 7 : 17. S0D-ve - 2

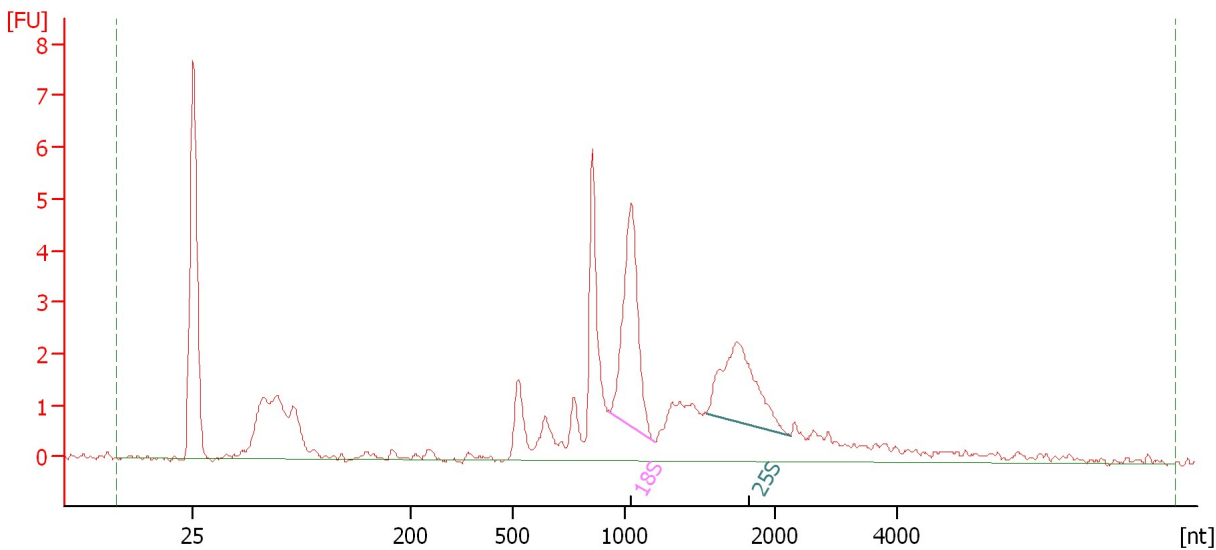
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	808	970	14.0	22.4
25S	1,395	1,743	8.1	12.9

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

18. S0D-ve - 3 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 8 : 18. S0D-ve - 3

RNA Area: 56.1 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 45 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.8 Result Flagging Label: RIN: 7.50

Fragment table for sample 8 : 18. S0D-ve - 3

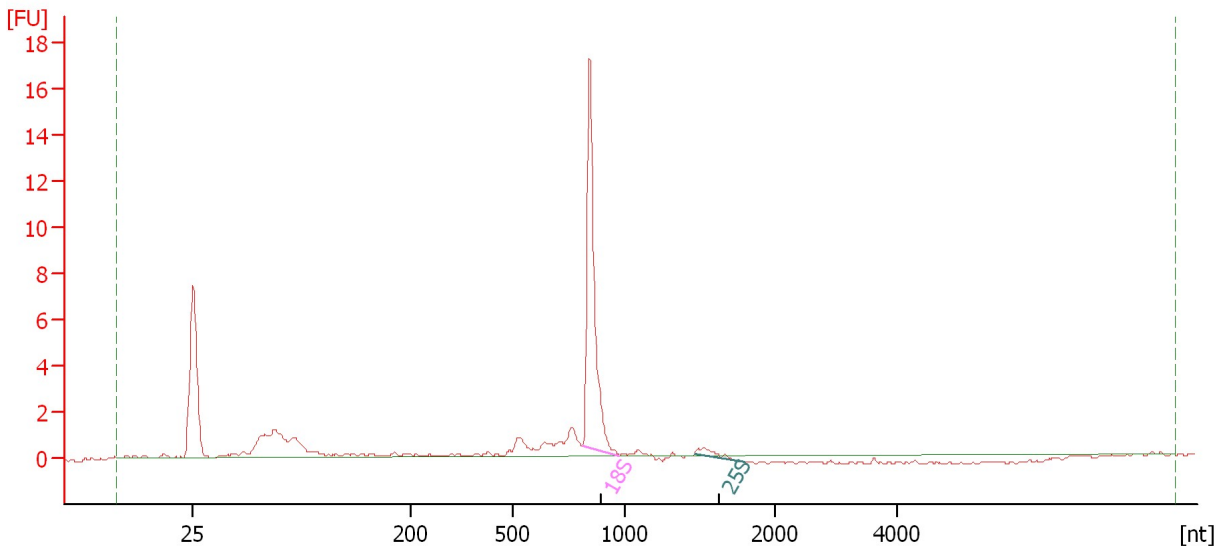
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	931	1,196	7.8	13.8
25S	1,545	2,246	6.0	10.6

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

19. S2D-ve - 1 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 9 : 19. S2D-ve - 1

RNA Area: 33.6 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 27 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.0 Result Flagging Label: RIN: 7.50

Fragment table for sample 9 : 19. S2D-ve - 1

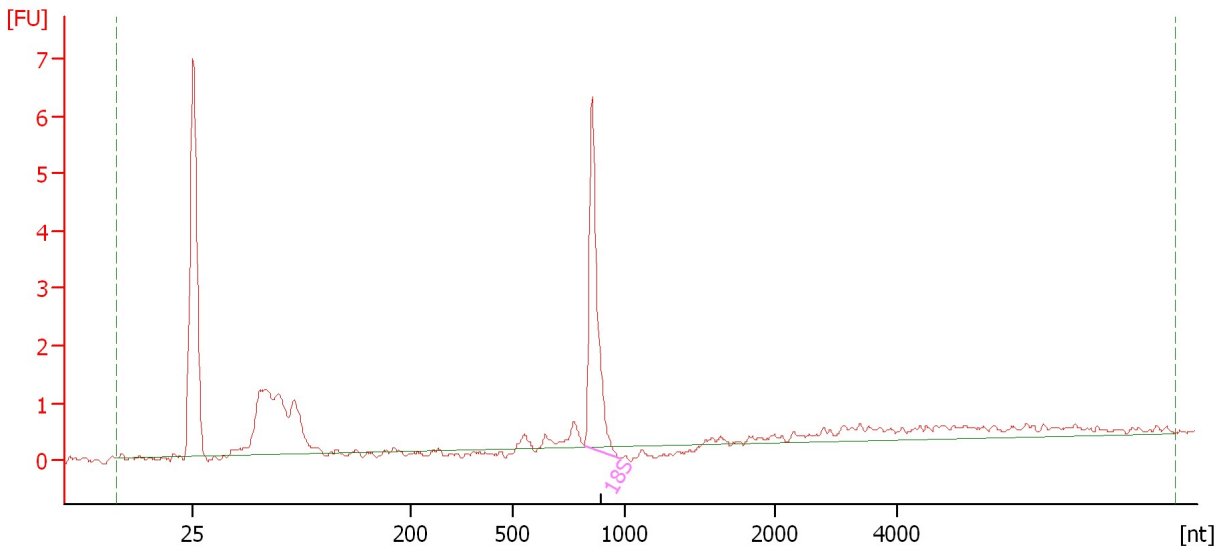
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	812	974	16.4	48.9
25S	1,459	1,794	0.7	2.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad


Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

20. S2D-ve - 2 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 10 : 20. S2D-ve - 2

RNA Area:	21.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	17 ng/μl	Result Flagging Color:	
rRNA Ratio [25s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 10 : 20. S2D-ve - 2

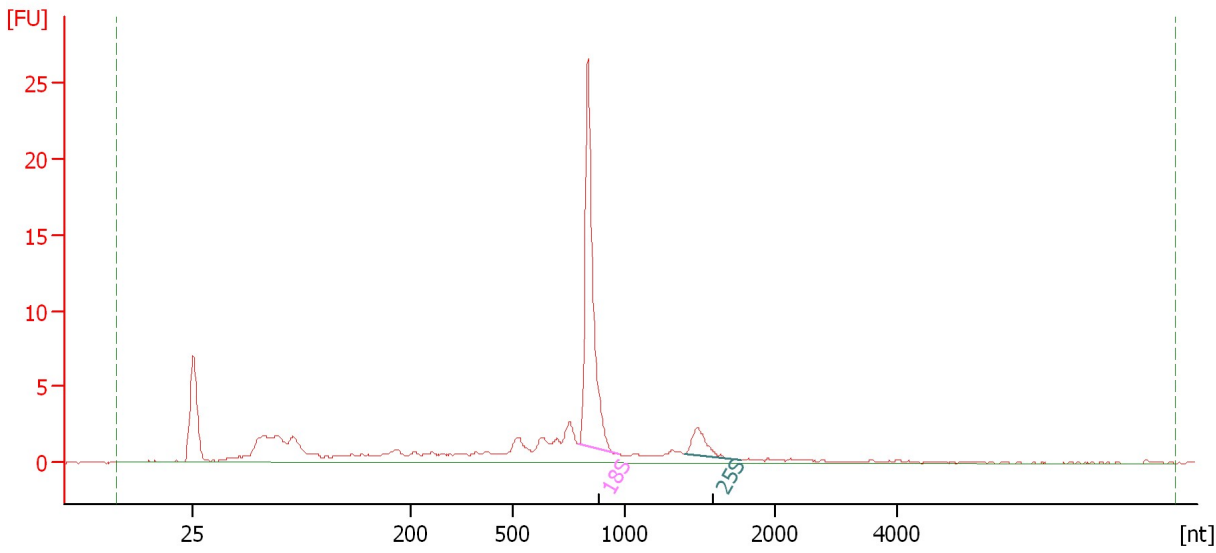
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	817	969	6.5	30.8

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

21. S2D-ve - 3 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 11 : 21. S2D-ve - 3

RNA Area: 83.7 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 67 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.1 Result Flagging Label: RIN: 7.10

Fragment table for sample 11 : 21. S2D-ve - 3

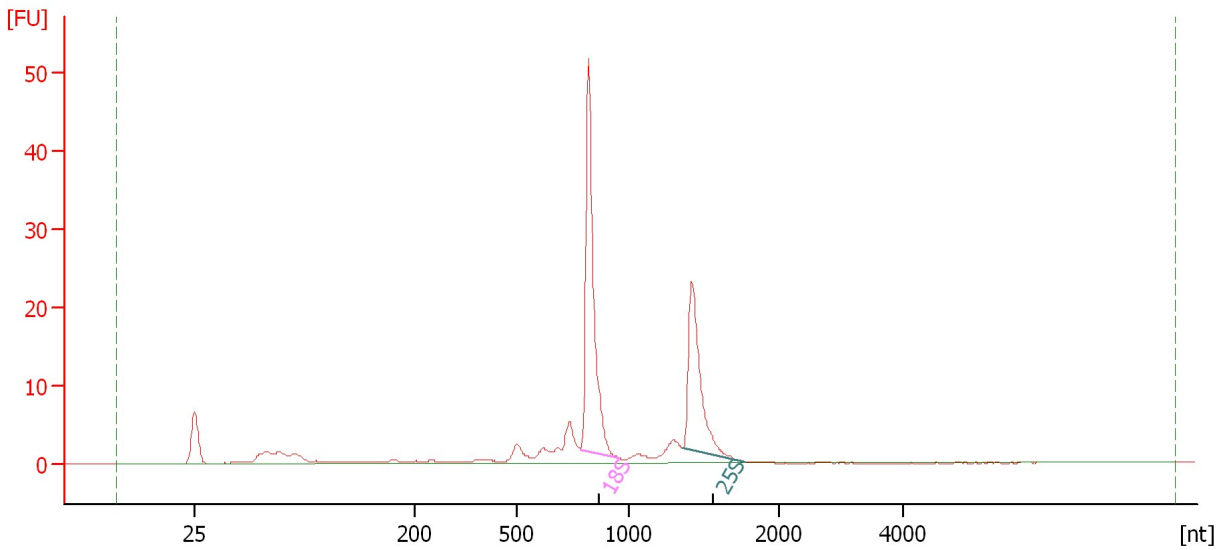
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	798	969	26.4	31.5
25S	1,402	1,772	3.1	3.7

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Electropherogram Summary Continued ...

22. S2D 12F- 1 [hiSeq_1001 RNA QC_Resubmissions]



Overall Results for sample 12 : 22. S2D 12F- 1

RNA Area: 134.5 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 107 ng/μl Result Flagging Color:
rRNA Ratio [25s / 18s]: 0.6 Result Flagging Label: RIN: 8.80

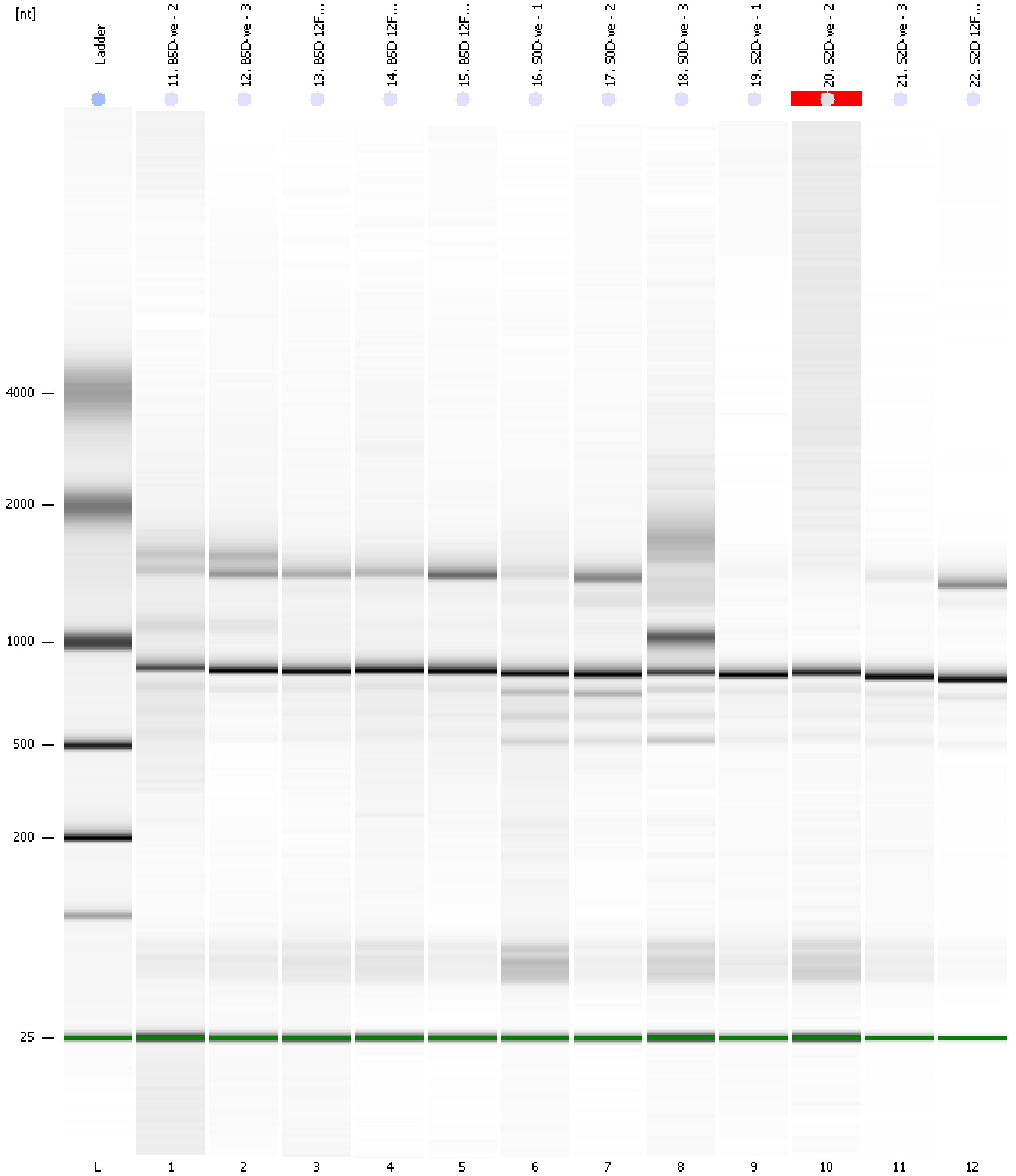
Fragment table for sample 12 : 22. S2D 12F- 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	790	956	51.0	37.9
25S	1,353	1,764	28.5	21.2

Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Gel Image



Assay Class: Plant RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-07-11\2017-07-11_003.xad

Created: 7/11/2017 1:25:57 PM
Modified: 7/11/2017 1:49:48 PM

Curves

Standard Curve

