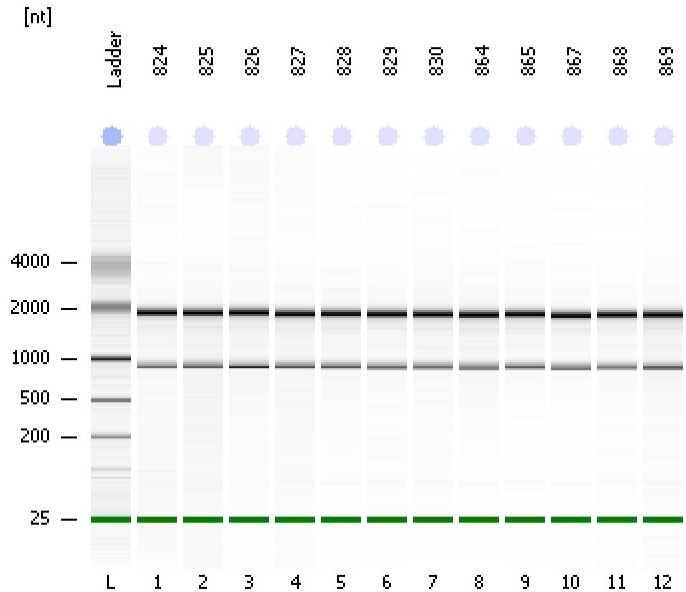


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electrophoresis File Run Summary



Instrument Information:

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

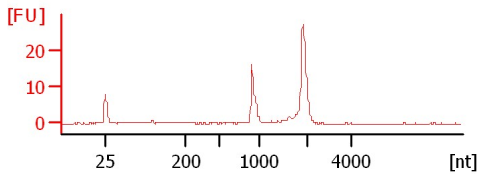
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

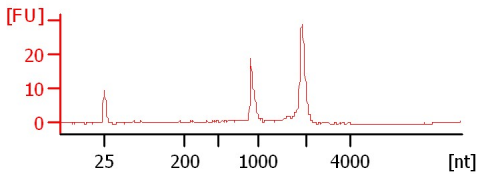
Chip Information:

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

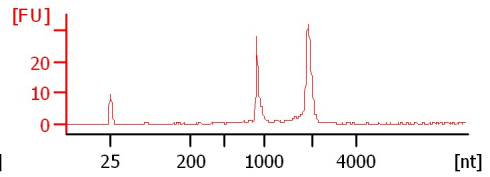
824
RIN: 9.80



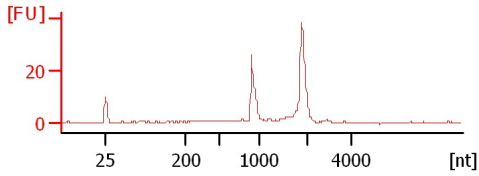
825
RIN: 9.20



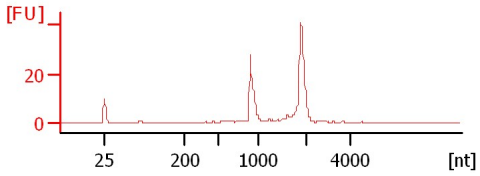
826
RIN: 9.70



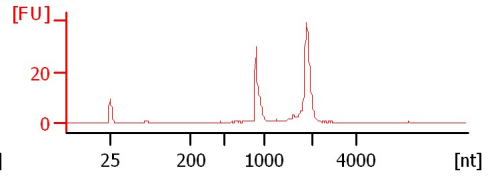
827
RIN: 9.70



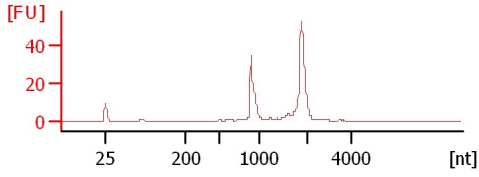
828
RIN: 9.80



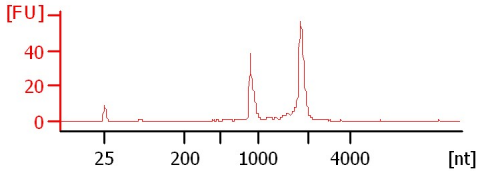
829
RIN: 10



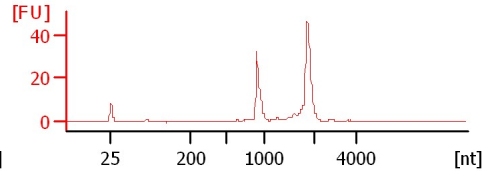
830
RIN: 9.70



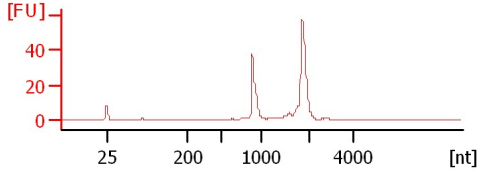
864
RIN: 9.80



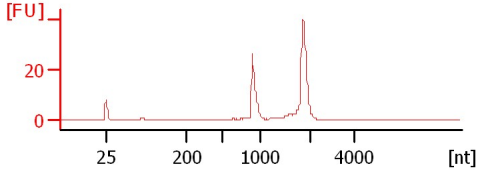
865
RIN: 10



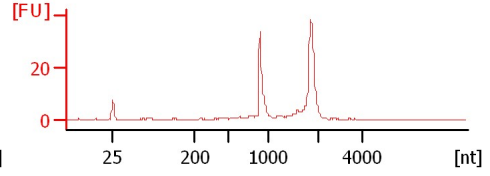
867
RIN: 10



868
RIN: 10



869
RIN: 9.60



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
 Modified: 3/3/2017 1:22:49 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
824		✓	RIN: 9.80	
825		✓	RIN: 9.20	
826		✓	RIN: 9.70	
827		✓	RIN: 9.70	
828		✓	RIN: 9.80	
829		✓	RIN:10	
830		✓	RIN: 9.70	
864		✓	RIN: 9.80	
865		✓	RIN:10	
867		✓	RIN:10	
868		✓	RIN:10	
869		✓	RIN: 9.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

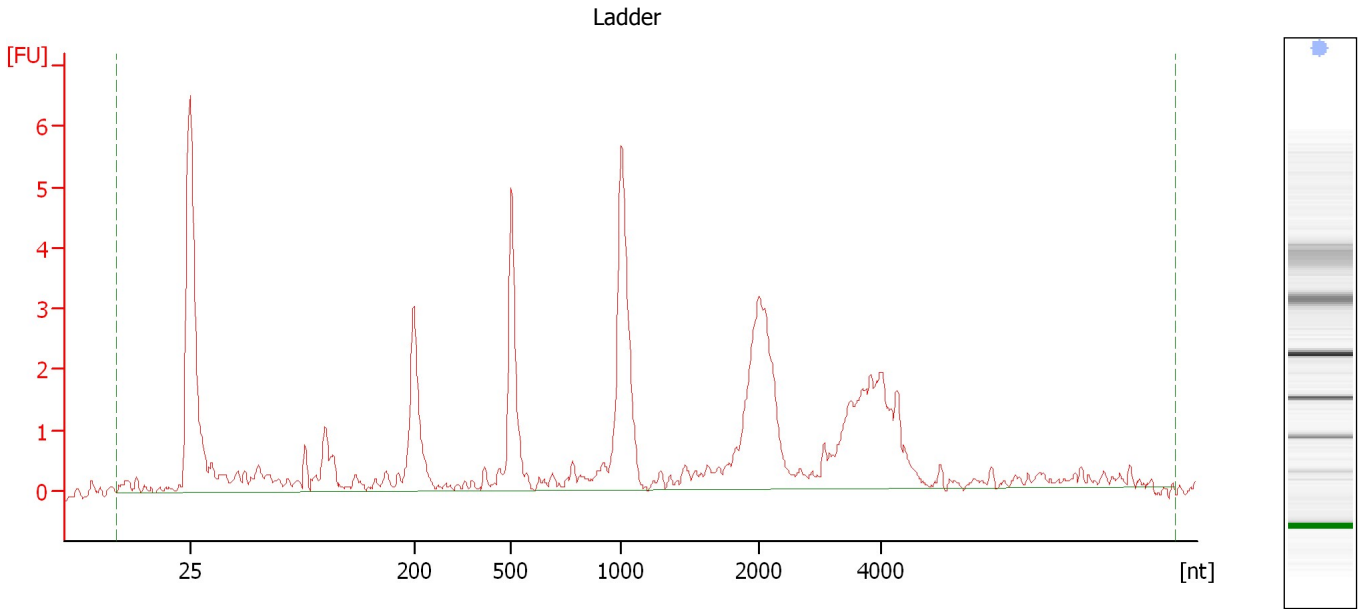
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary



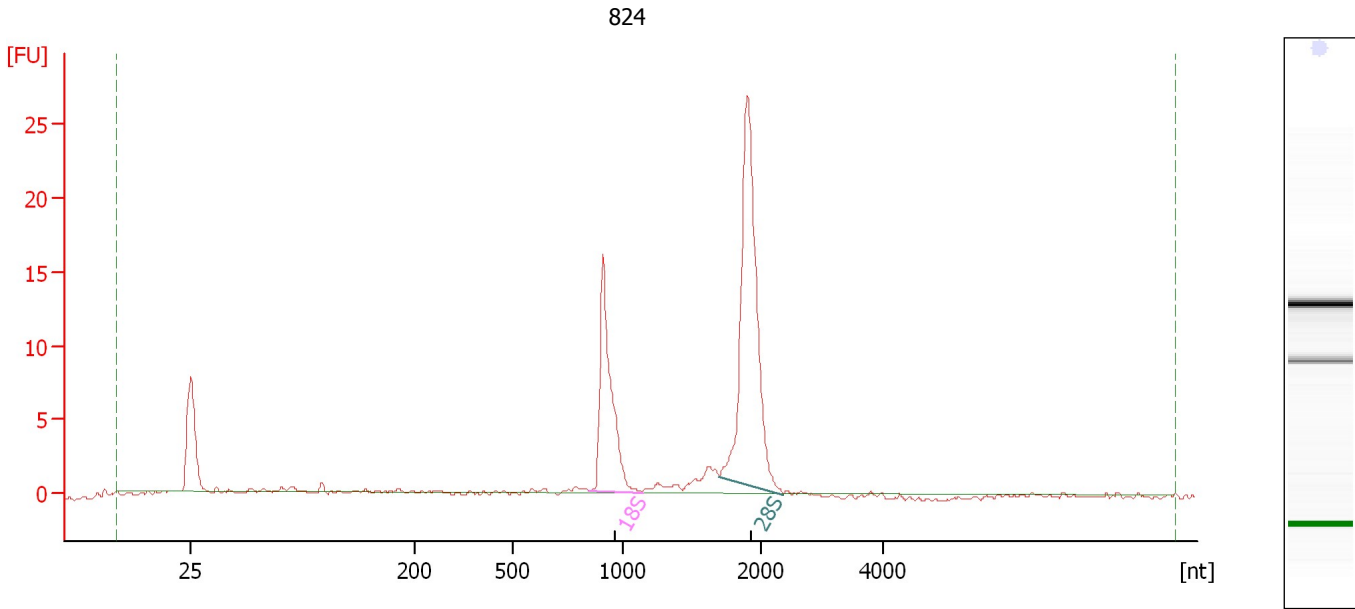
Overall Results for Ladder

RNA Area:	51.8	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 824

RNA Area:	80.9	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	234 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.80

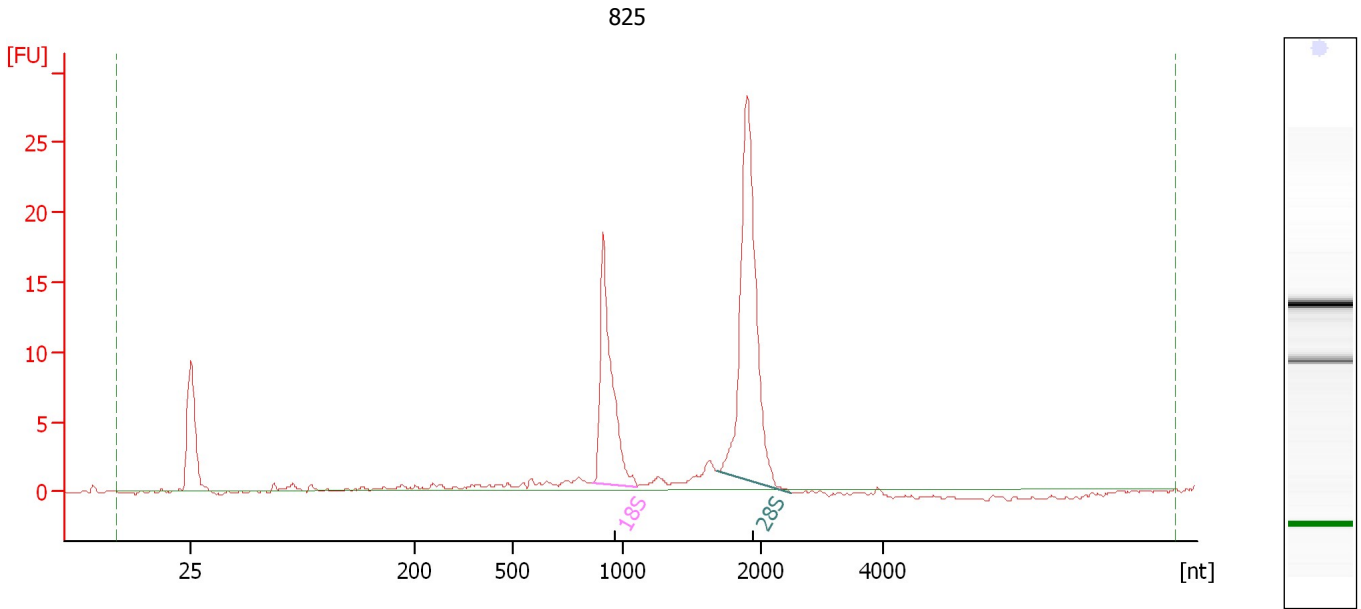
Fragment table for sample 1 : 824

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	845	1,141	21.9	27.1
28S	1,702	2,378	44.2	54.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 825

RNA Area:	98.4	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	285 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.20

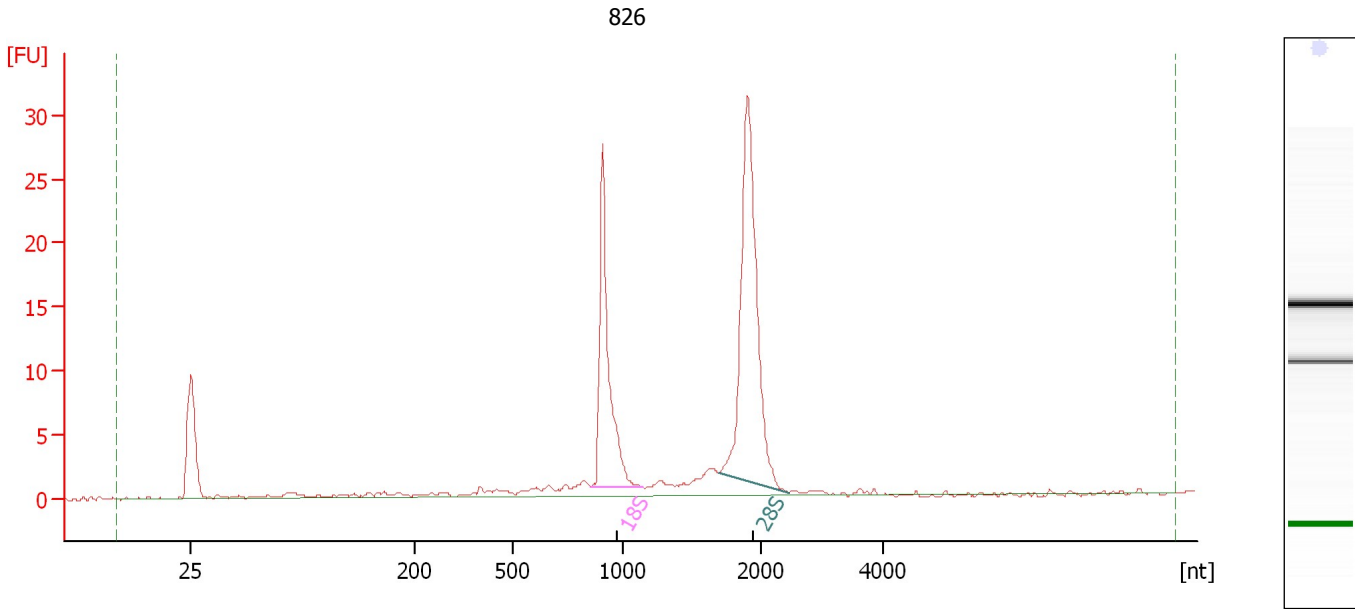
Fragment table for sample 2 : 825

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	860	1,102	25.3	25.7
28S	1,679	2,483	46.6	47.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
 Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 826

RNA Area:	114.8	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	332 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.70

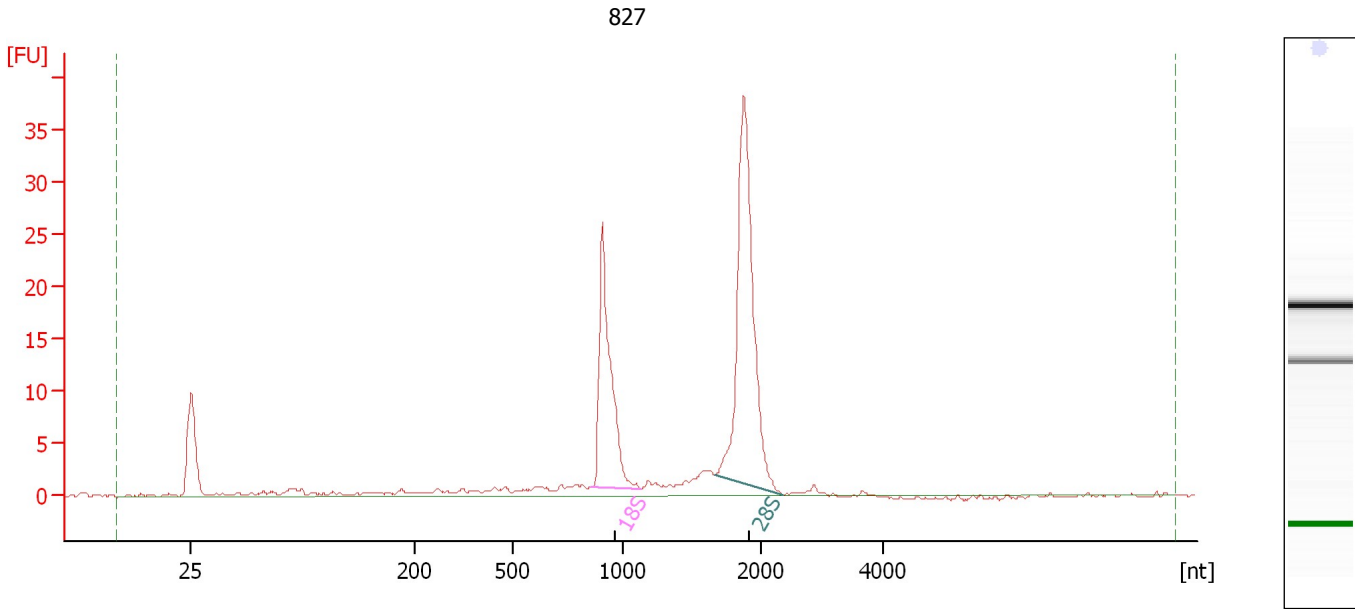
Fragment table for sample 3 : 826

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	855	1,149	29.6	25.8
28S	1,702	2,448	51.1	44.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 827

RNA Area:	153.7	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	445 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.70

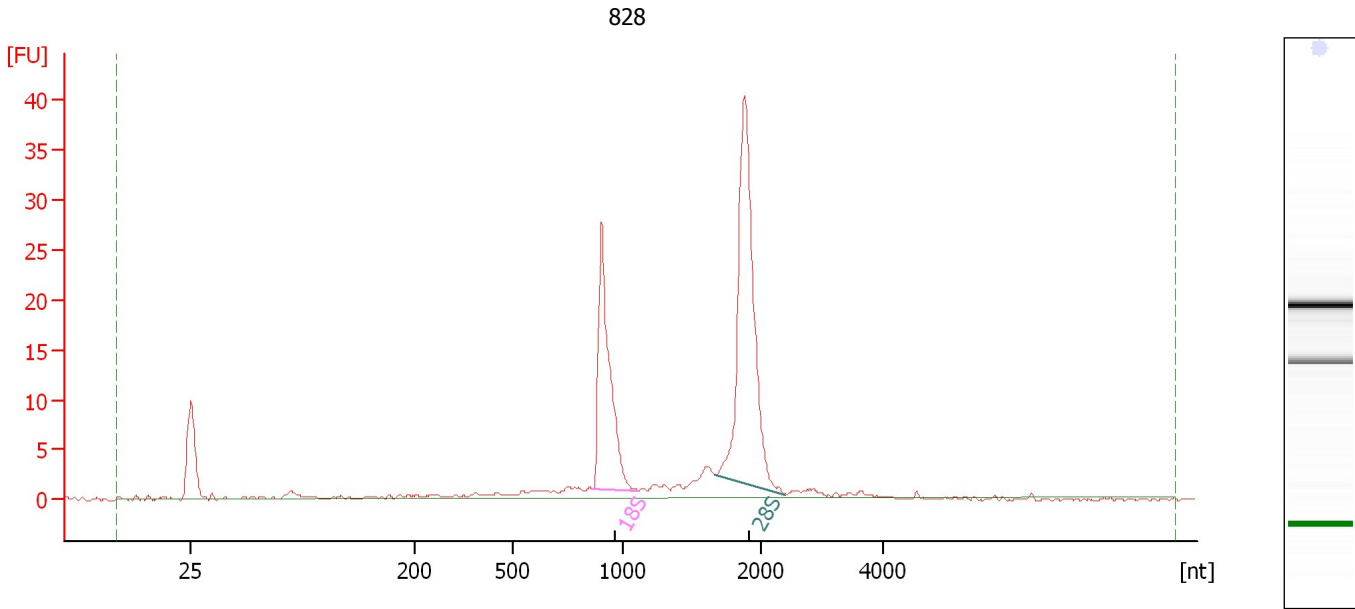
Fragment table for sample 4 : 827

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	850	1,133	35.5	23.1
28S	1,671	2,378	62.9	40.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 828

RNA Area: 146.6 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 425 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.80

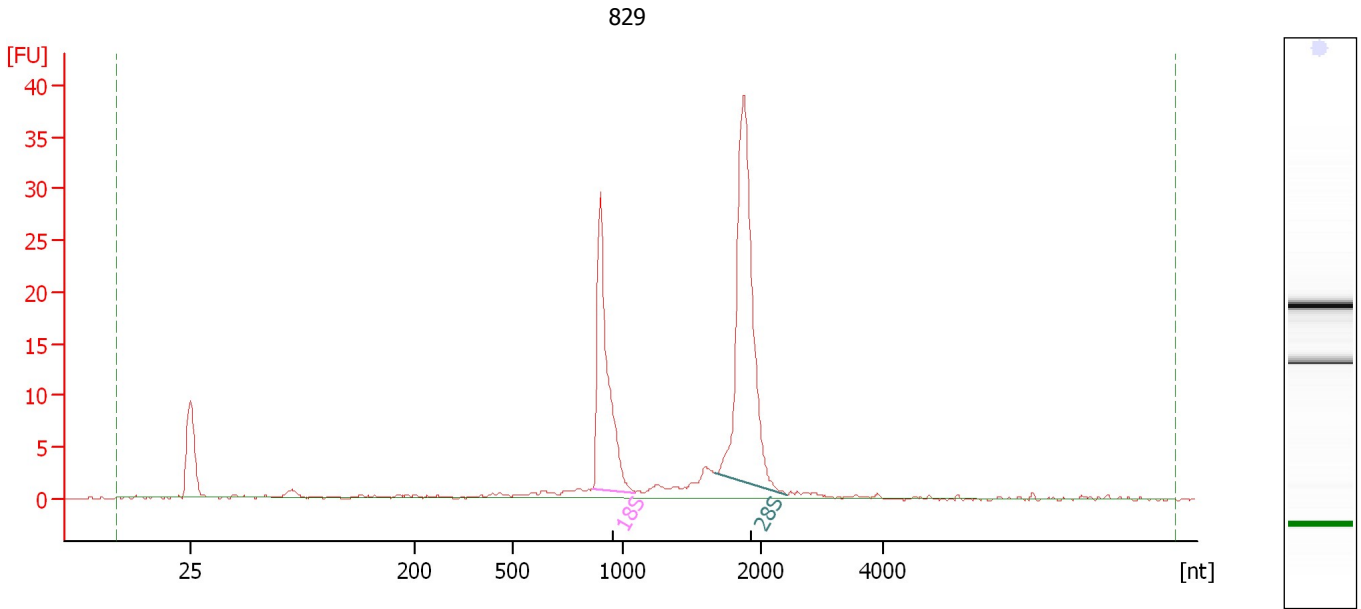
Fragment table for sample 5 : 828

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	864	1,117	36.7	25.0
28S	1,671	2,396	64.9	44.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 829

RNA Area: 134.4 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 389 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN:10

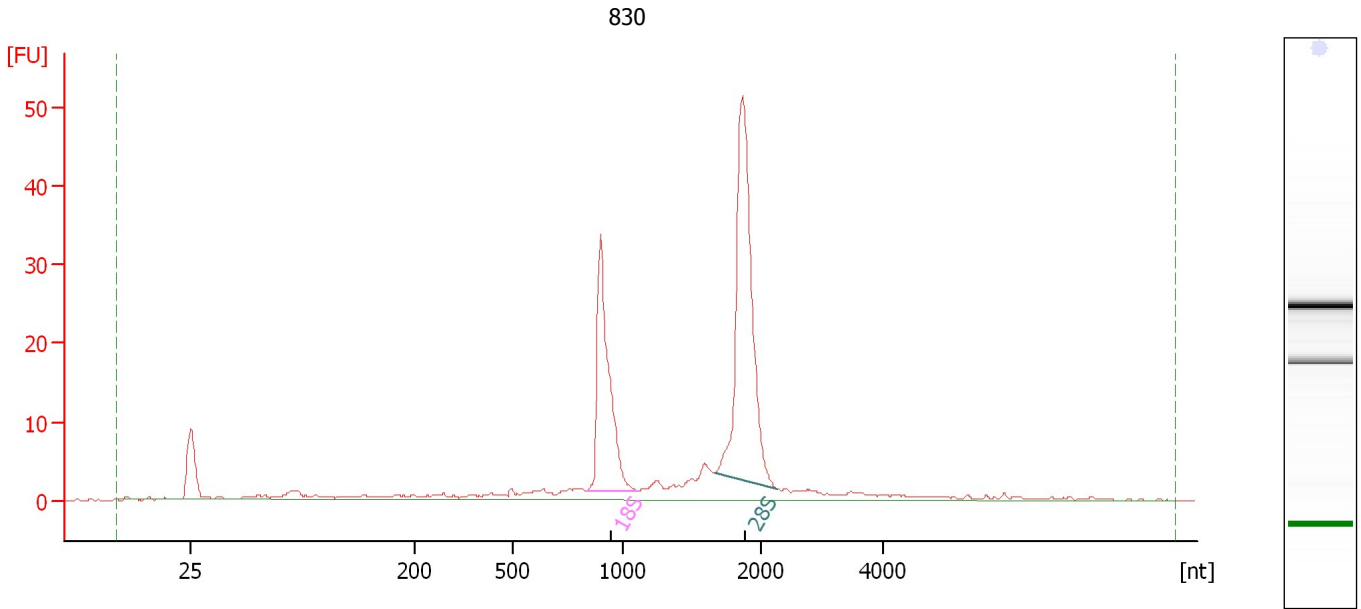
Fragment table for sample 6 : 829

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	864	1,086	36.2	26.9
28S	1,663	2,431	63.4	47.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 830

RNA Area:	207.3	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	601 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.70

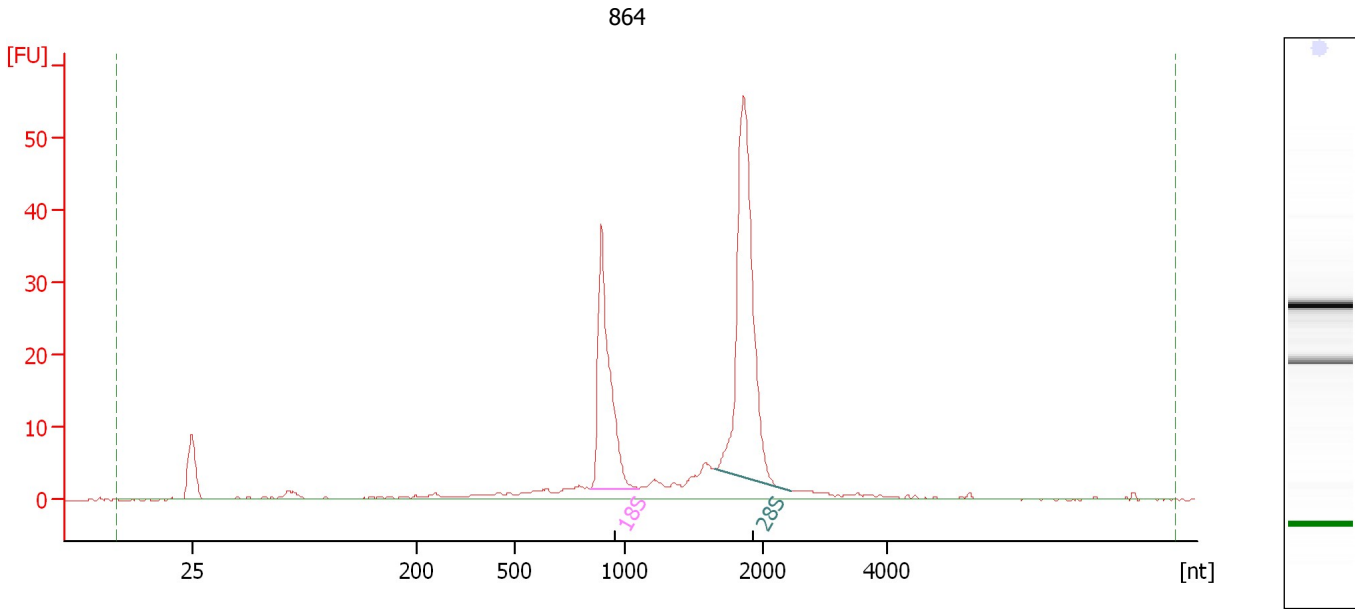
Fragment table for sample 7 : 830

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	835	1,094	46.5	22.5
28S	1,671	2,257	82.4	39.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
 Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 864

RNA Area:	217.7	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	631 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.80

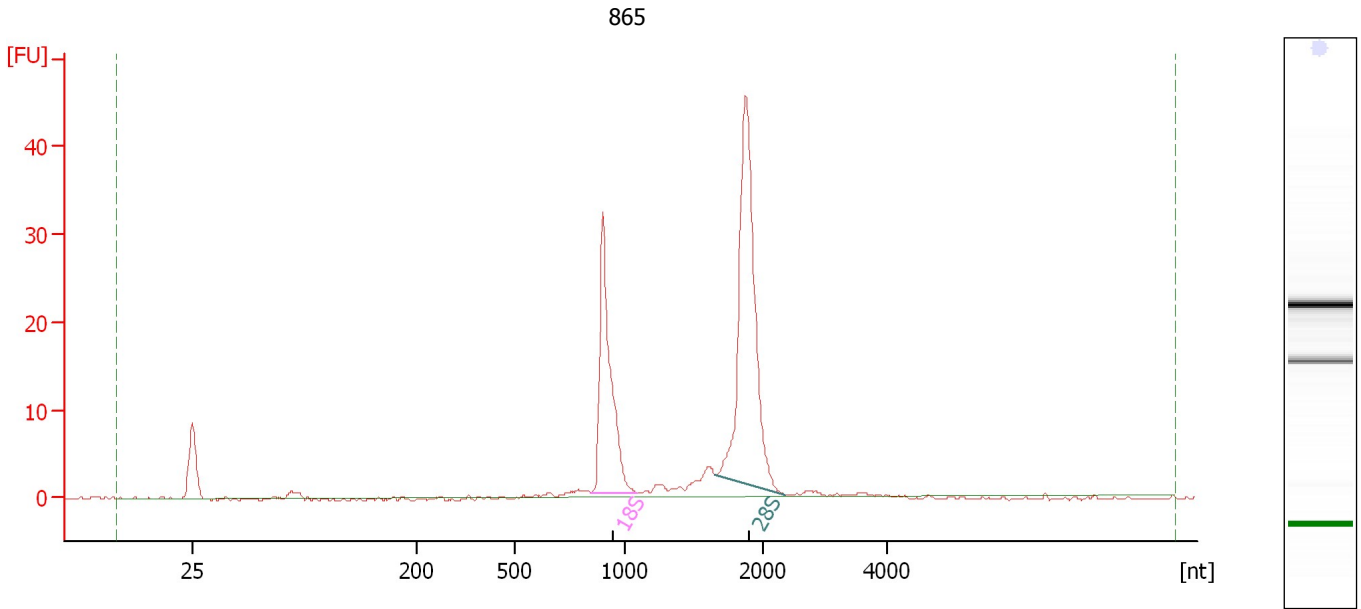
Fragment table for sample 8 : 864

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	846	1,095	51.0	23.4
28S	1,647	2,444	90.6	41.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 865

RNA Area: 147.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 427 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:10

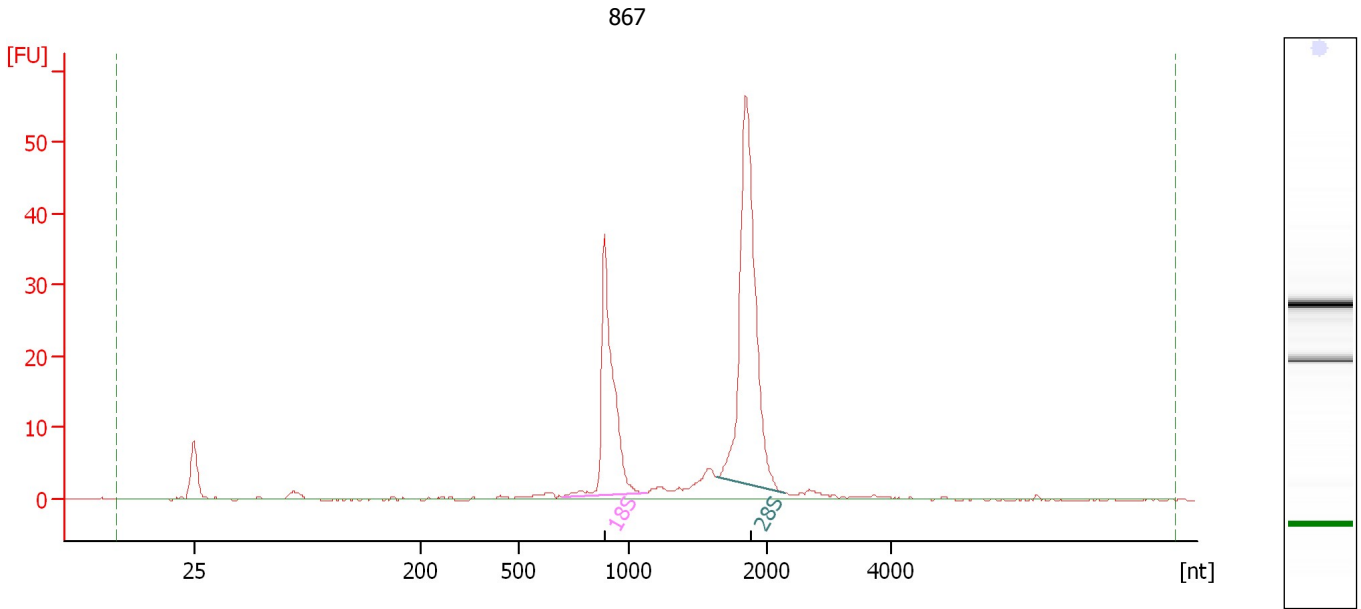
Fragment table for sample 9 : 865

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	846	1,087	42.8	29.0
28S	1,655	2,375	74.8	50.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 867

RNA Area:	191.3	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	554 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:10

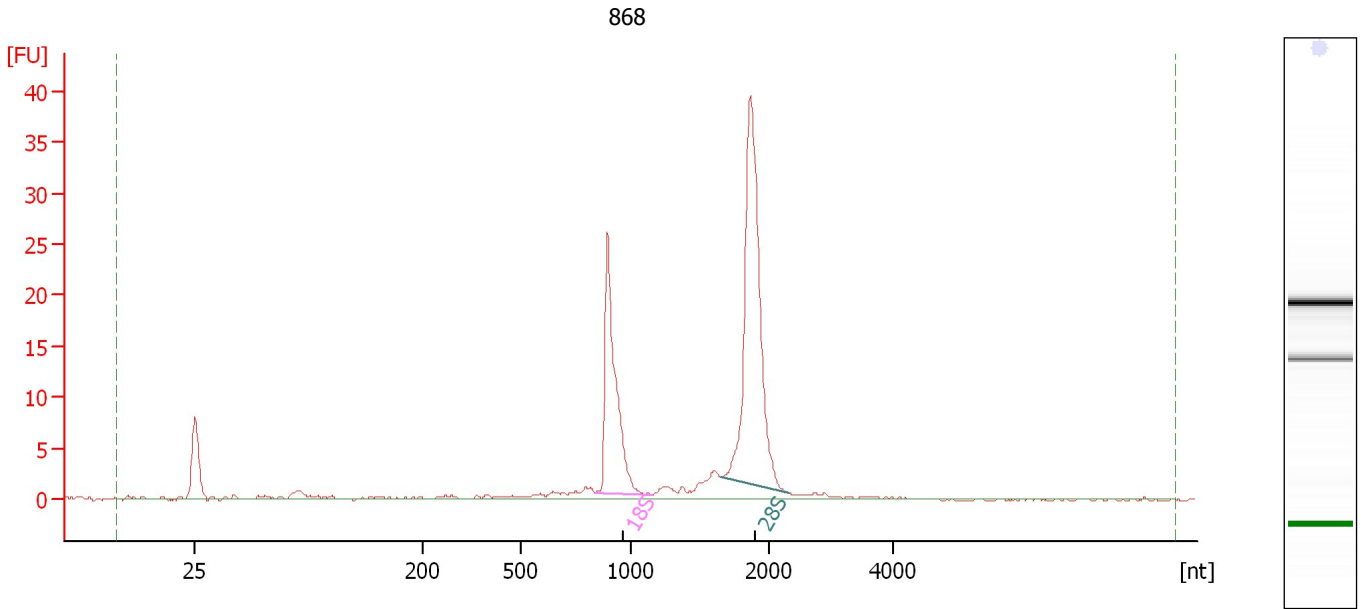
Fragment table for sample 10 : 867

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	703	1,119	53.3	27.9
28S	1,638	2,281	91.6	47.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 868

RNA Area:	129.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	375 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:10

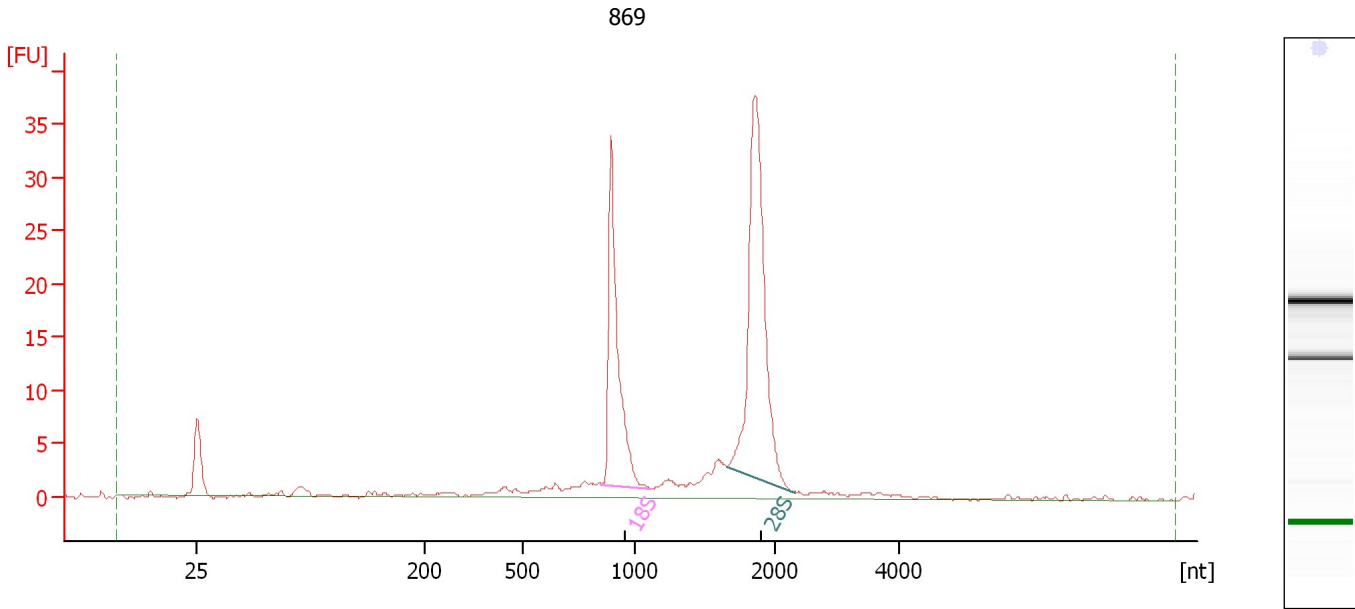
Fragment table for sample 11 : 868

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	839	1,151	33.7	26.0
28S	1,645	2,312	62.5	48.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
 Modified: 3/3/2017 1:22:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 869

RNA Area:	155.1	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	449 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.60

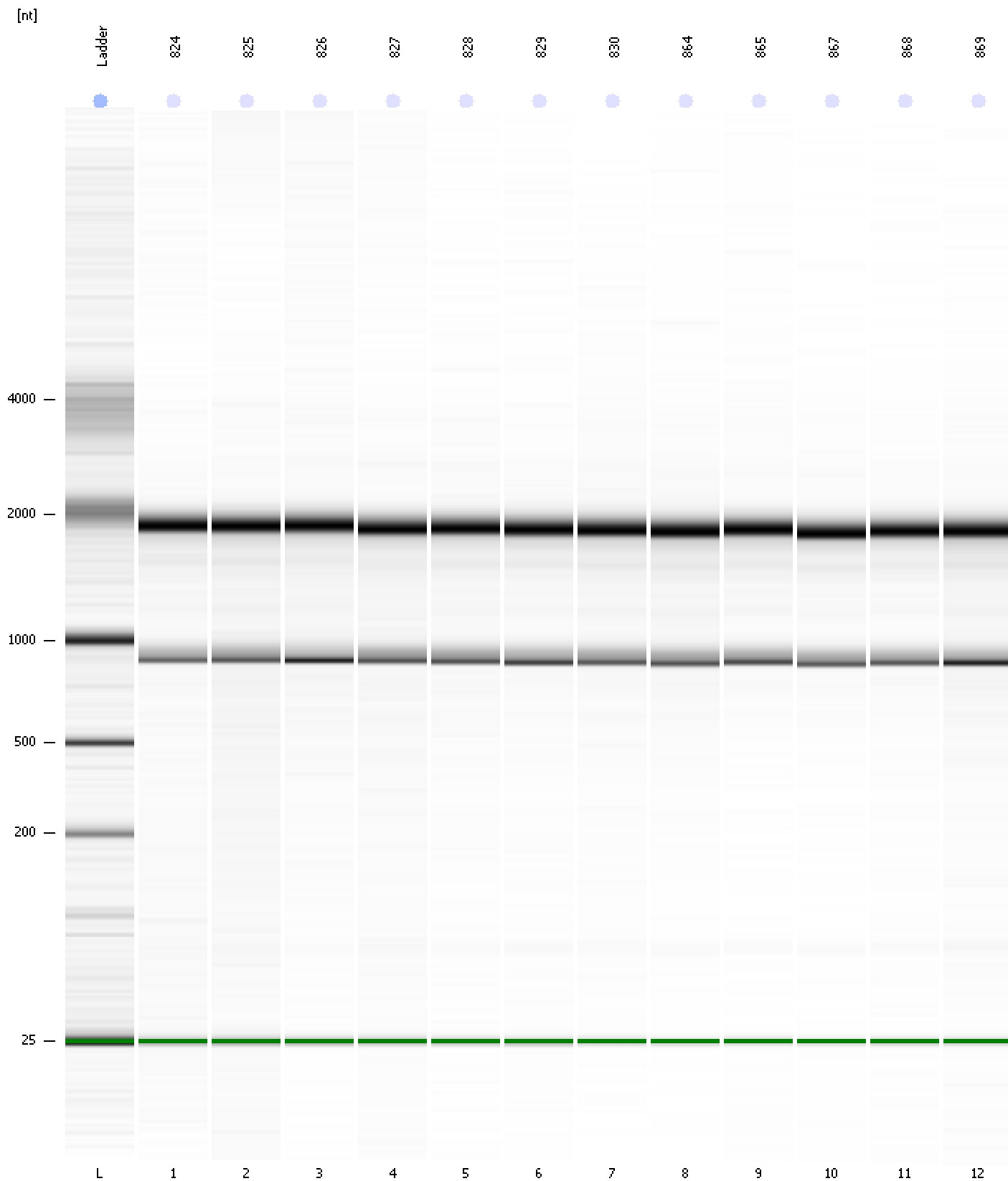
Fragment table for sample 12 : 869

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	846	1,114	36.9	23.8
28S	1,652	2,323	61.3	39.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
Modified: 3/3/2017 1:22:49 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad

Created: 3/3/2017 12:59:02 PM
 Modified: 3/3/2017 1:22:49 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		3/3/2017 1:22:48 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-03\2017-03-03_002.xad)		Instrument	Run		3/3/2017 12:59:08 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/3/2017 12:59:08 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/3/2017 12:59:08 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/3/2017 12:59:08 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/3/2017 12:59:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/3/2017 12:59:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/3/2017 12:59:07 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1