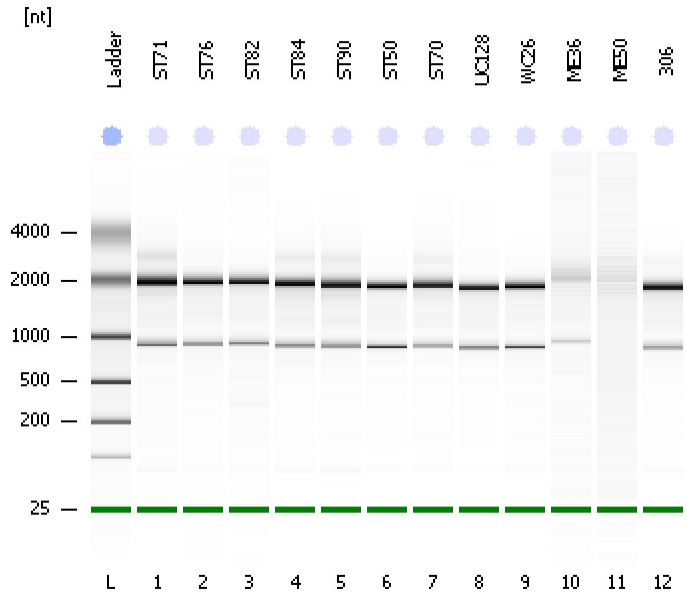


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electrophoresis File Run Summary



Instrument Information:

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

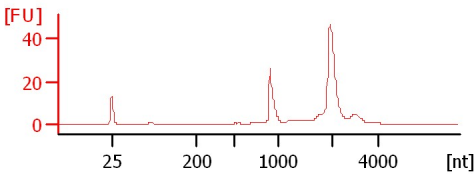
Assay Information:

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.

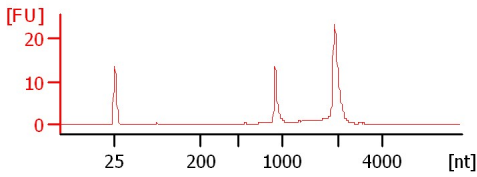
Chip Information:

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

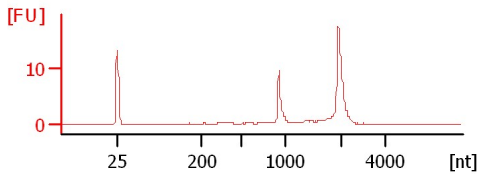
ST71
RIN: 9.70



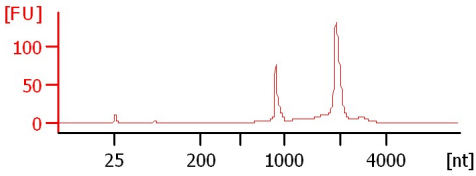
ST76
RIN: 9.80



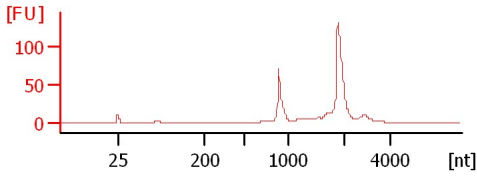
ST82
RIN: 9.20



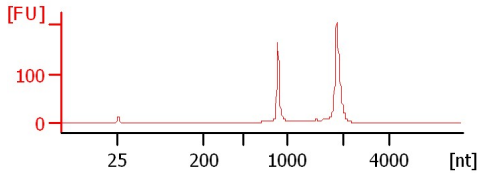
ST84
RIN: 9.60



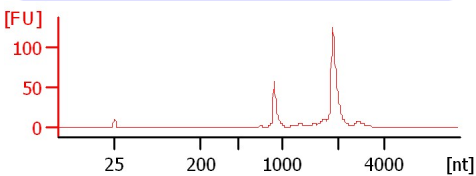
ST90
RIN: 9.50



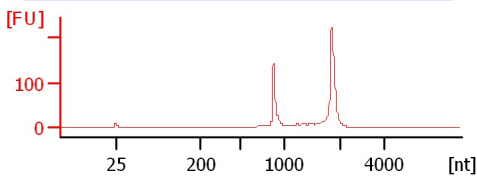
ST50
RIN: 10



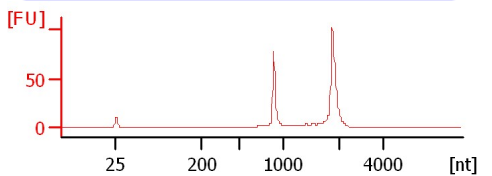
ST70
RIN: 9.60



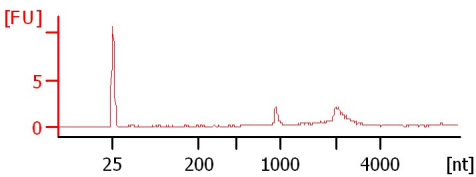
UC128
RIN: 10



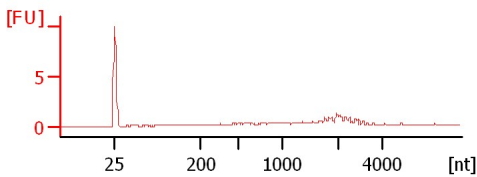
WC26
RIN: 9.90



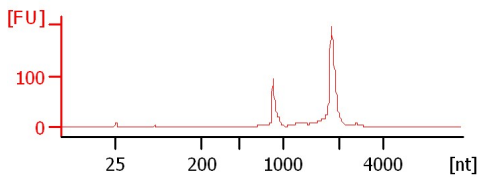
ME36
RIN: 8



ME50
RIN: 1



306
RIN: 9.50



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
 Modified: 12/2/2015 12:02:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ST71		✓	RIN: 9.70	
ST76		✓	RIN: 9.80	
ST82		✓	RIN: 9.20	
ST84		✓	RIN: 9.60	
ST90		✓	RIN: 9.50	
ST50		✓	RIN:10	
ST70		✓	RIN: 9.60	
UC128		✓	RIN:10	
WC26		✓	RIN: 9.90	
ME36		✓	RIN:8	
ME50		✓	RIN:1	
306		✓	RIN: 9.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 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

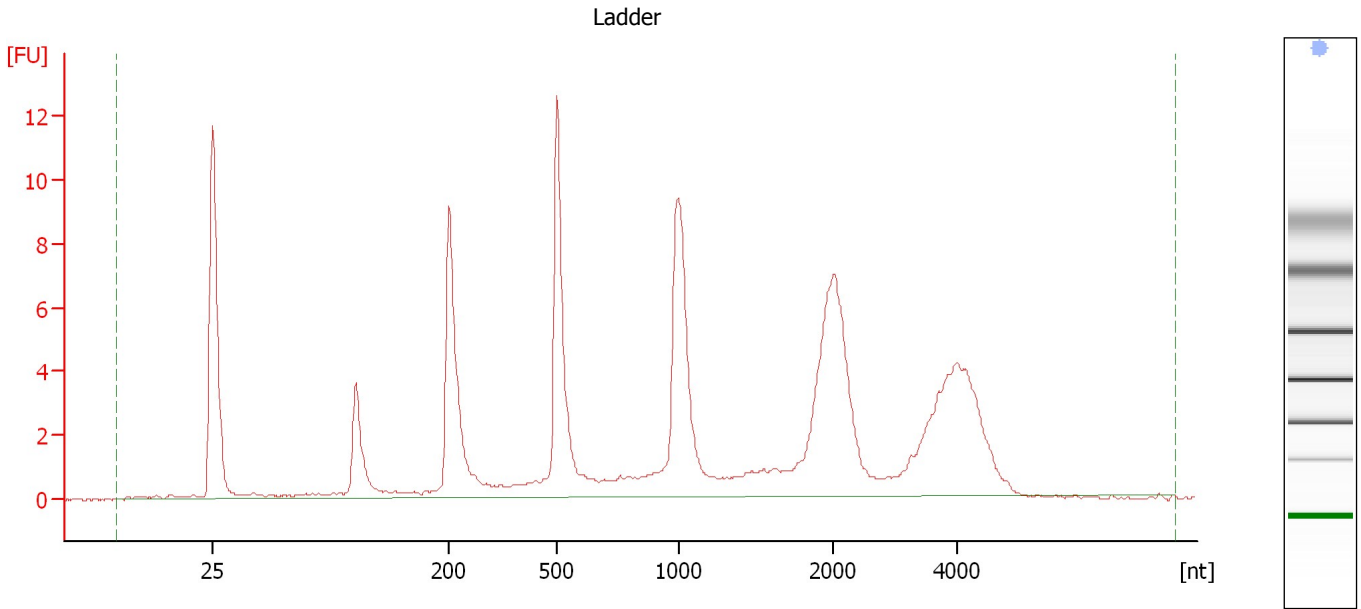
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary



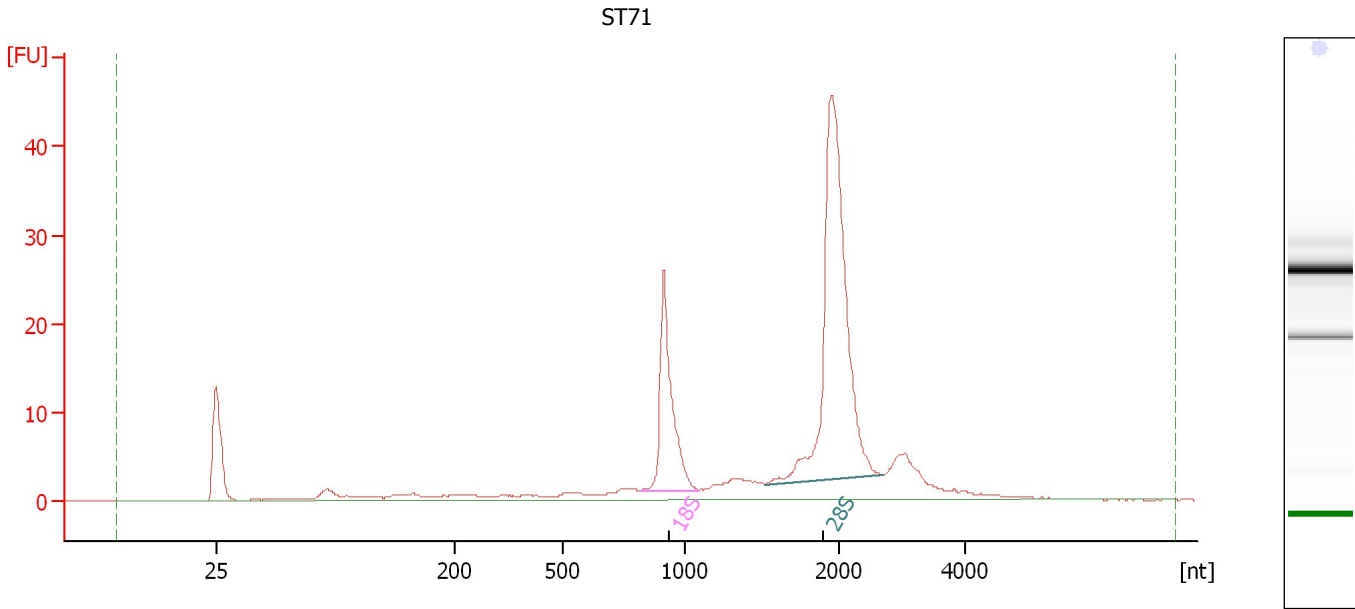
Overall Results for Ladder

RNA Area:	114.6	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ST71

RNA Area:	219.3	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	287 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 9.70

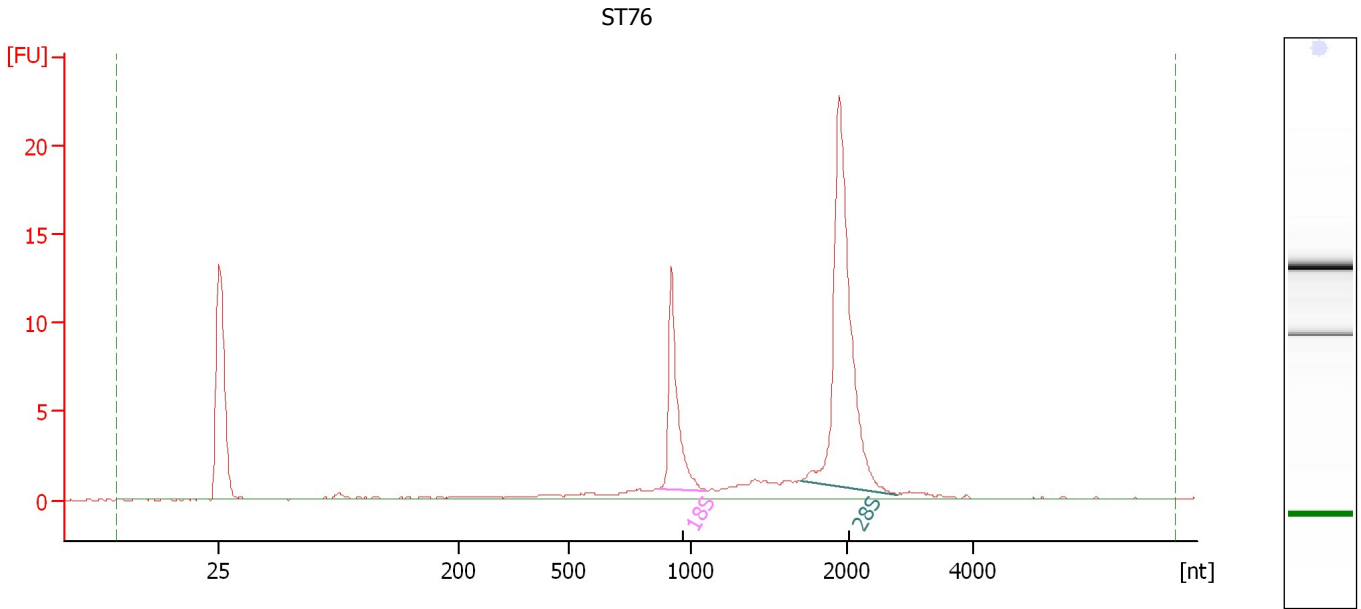
Fragment table for sample 1 : ST71

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	820	1,091	33.1	15.1
28S	1,522	2,685	95.7	43.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
 Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : ST76

RNA Area:	73.1	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	96 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN: 9.80

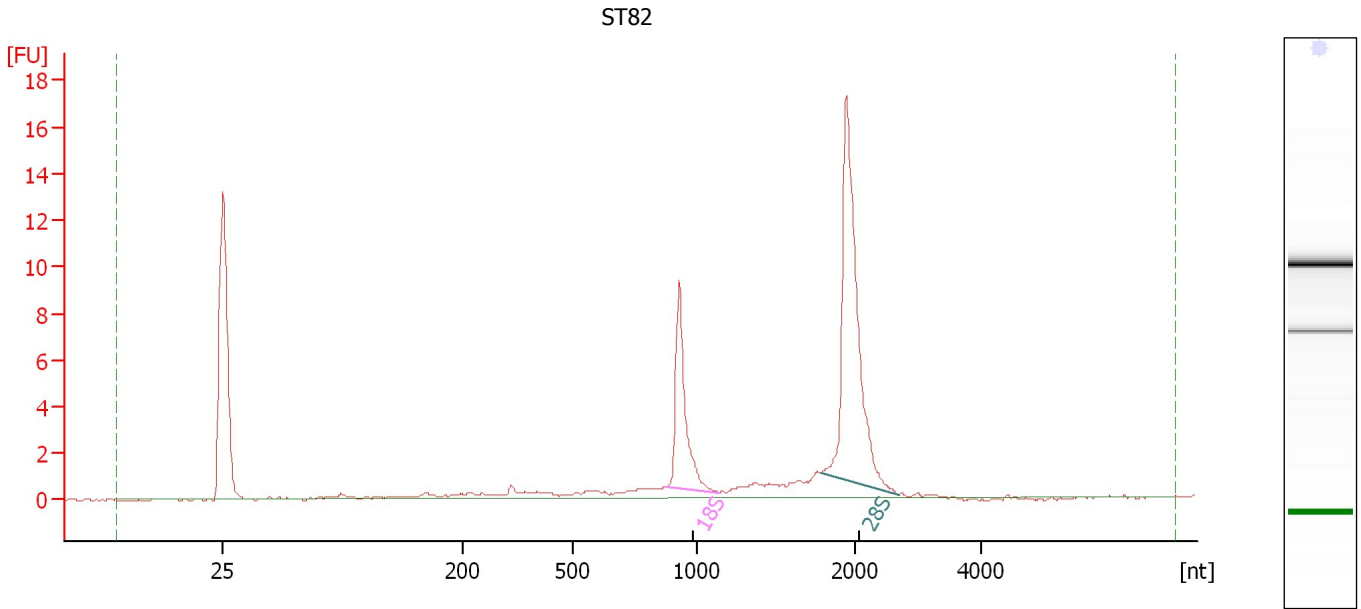
Fragment table for sample 2 : ST76

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	871	1,112	13.0	17.7
28S	1,705	2,789	36.0	49.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : ST82

RNA Area:	53.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	70 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 9.20

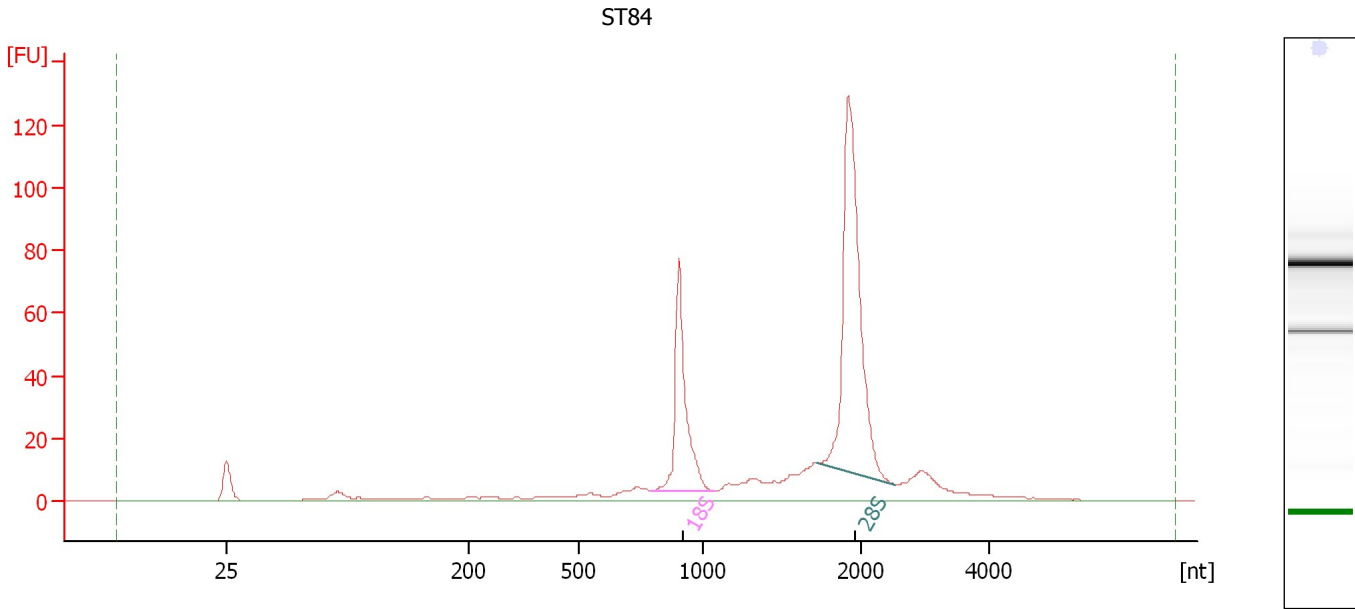
Fragment table for sample 3 : ST82

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	877	1,147	9.6	17.8
28S	1,784	2,690	24.5	45.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ST84

RNA Area:	527.1	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	690 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 9.60

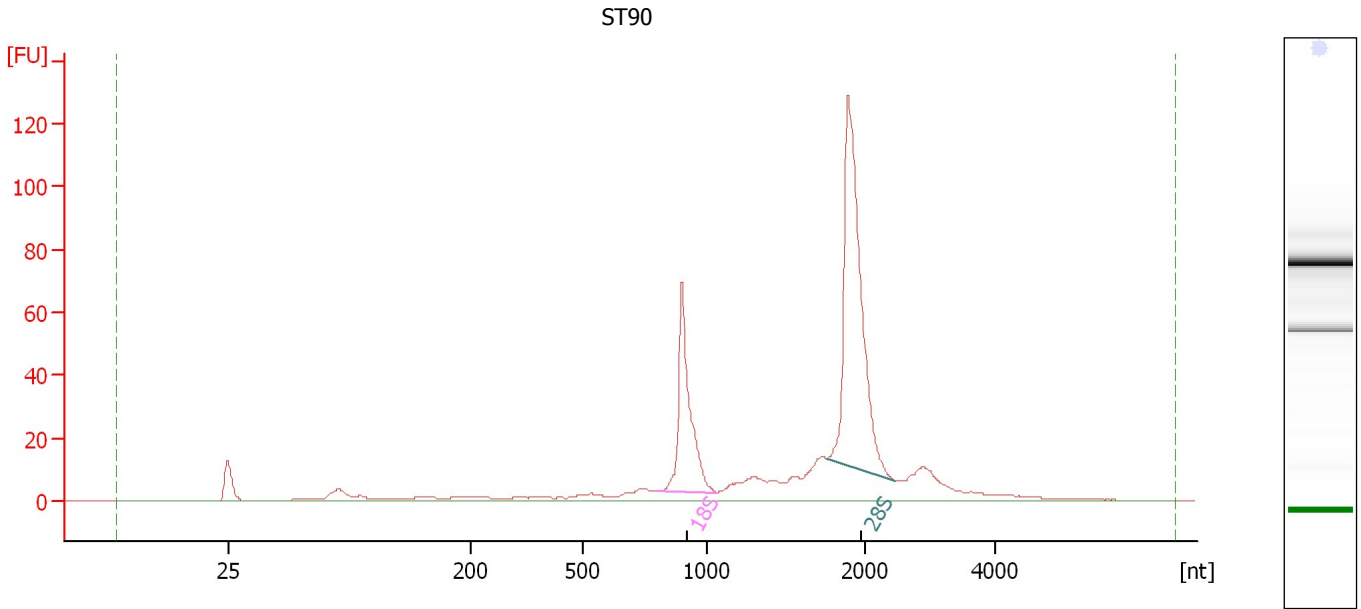
Fragment table for sample 4 : ST84

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	789	1,081	87.4	16.6
28S	1,727	2,525	196.8	37.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ST90

RNA Area:	549.0	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	718 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.50

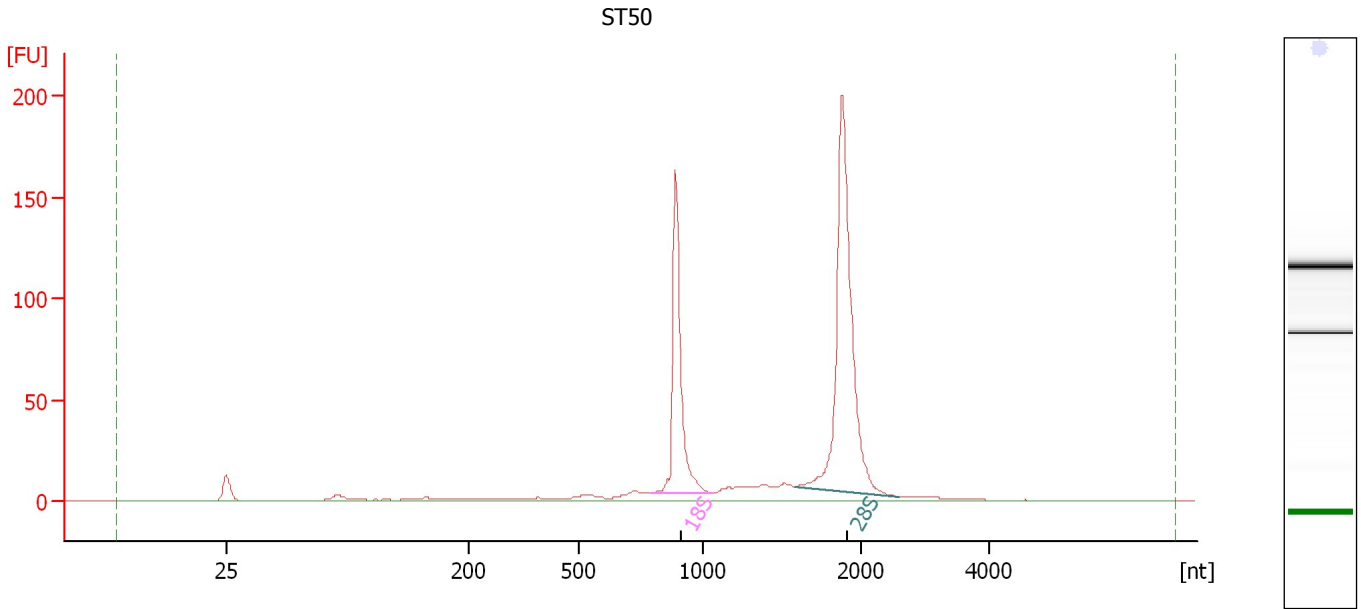
Fragment table for sample 5 : ST90

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	803	1,062	87.0	15.8
28S	1,752	2,449	193.4	35.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ST50

RNA Area:	628.8	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	823 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN:10

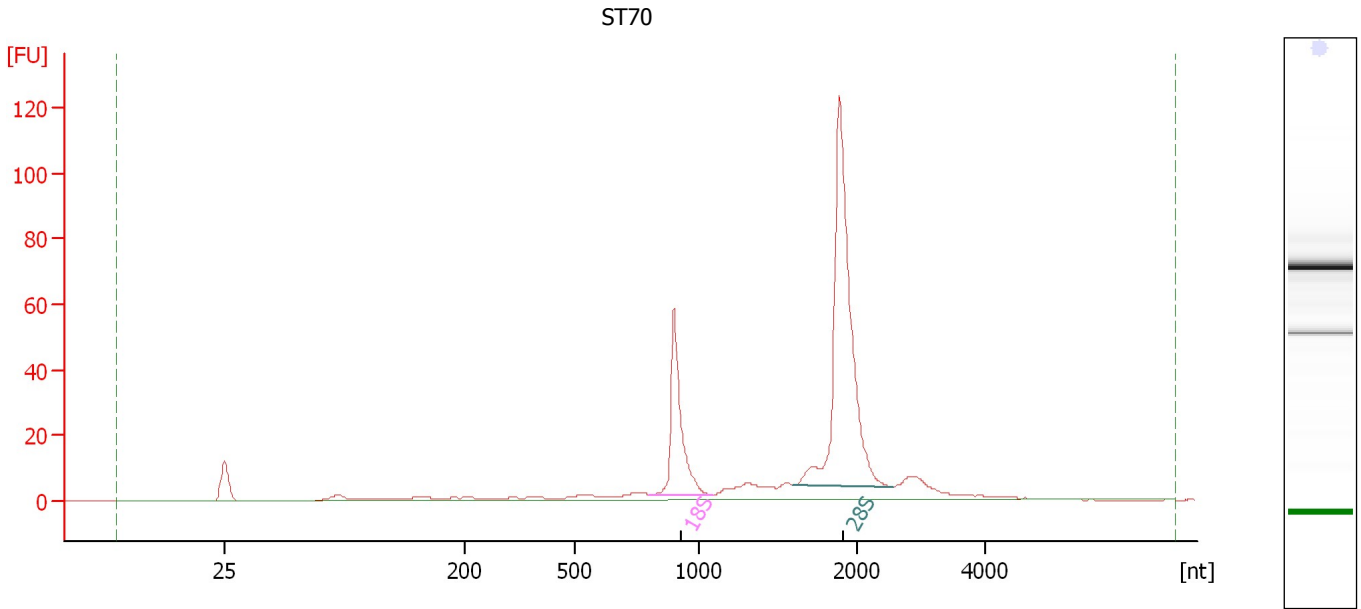
Fragment table for sample 6 : ST50

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	789	1,068	142.3	22.6
28S	1,579	2,575	289.7	46.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : ST70

RNA Area:	407.8	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	534 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.0	Result Flagging Label:	RIN: 9.60

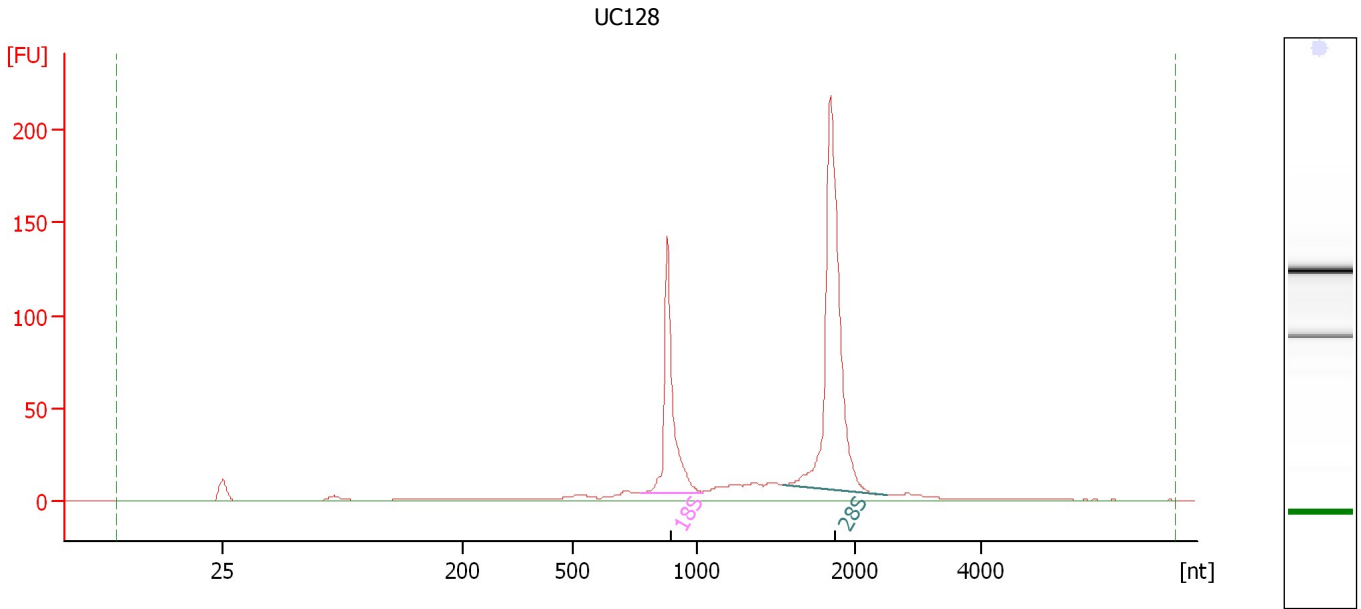
Fragment table for sample 7 : ST70

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	800	1,087	64.6	15.8
28S	1,600	2,567	193.0	47.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : UC128

RNA Area: 656.4 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 859 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN:10

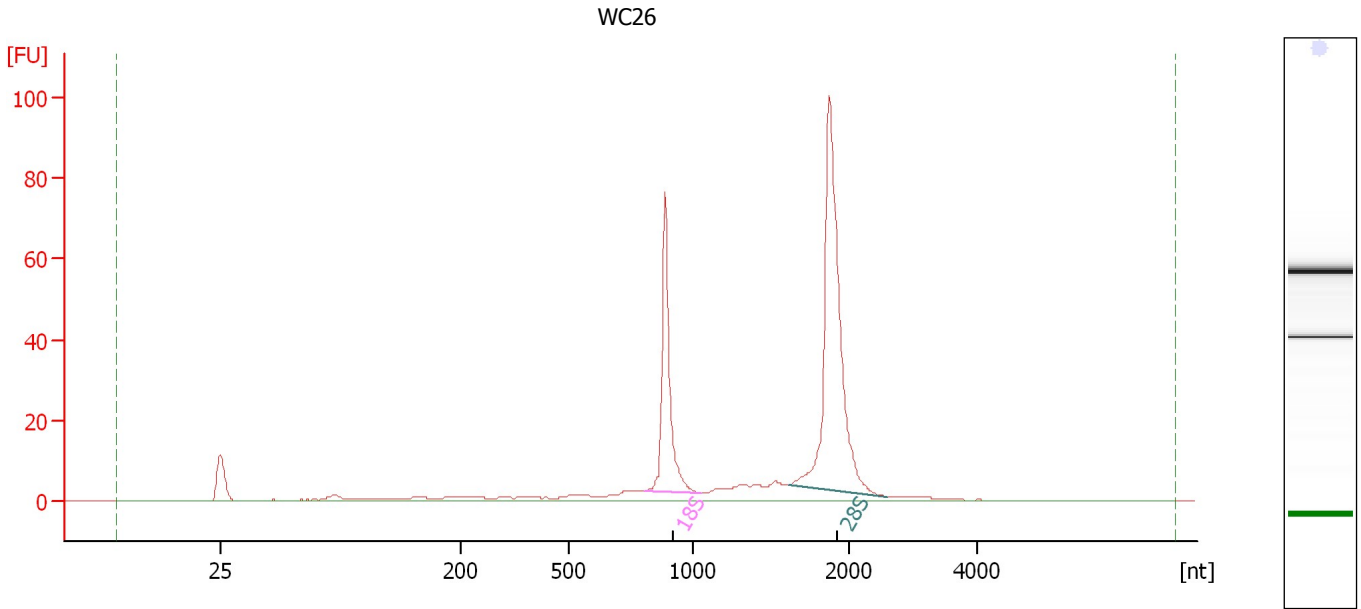
Fragment table for sample 8 : UC128

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	777	1,039	139.4	21.2
28S	1,547	2,505	302.4	46.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : WC26

RNA Area:	331.0	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	433 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.90

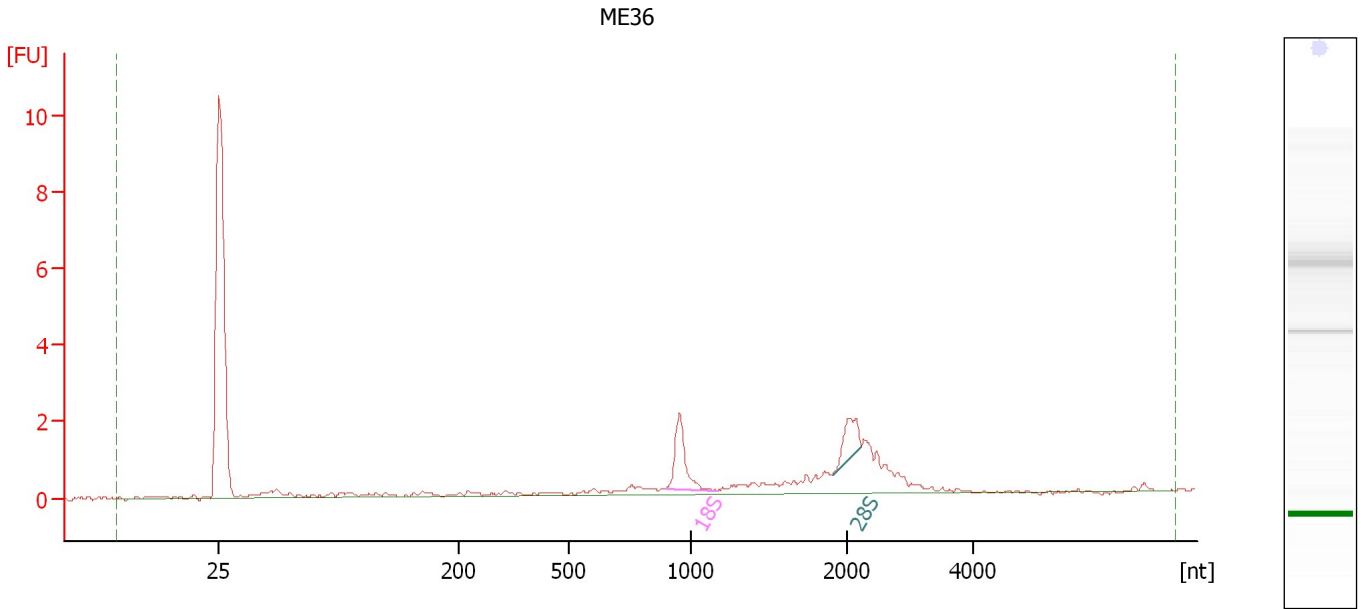
Fragment table for sample 9 : WC26

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	806	1,052	66.7	20.1
28S	1,609	2,581	149.8	45.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : ME36

RNA Area:	16.4	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN:8

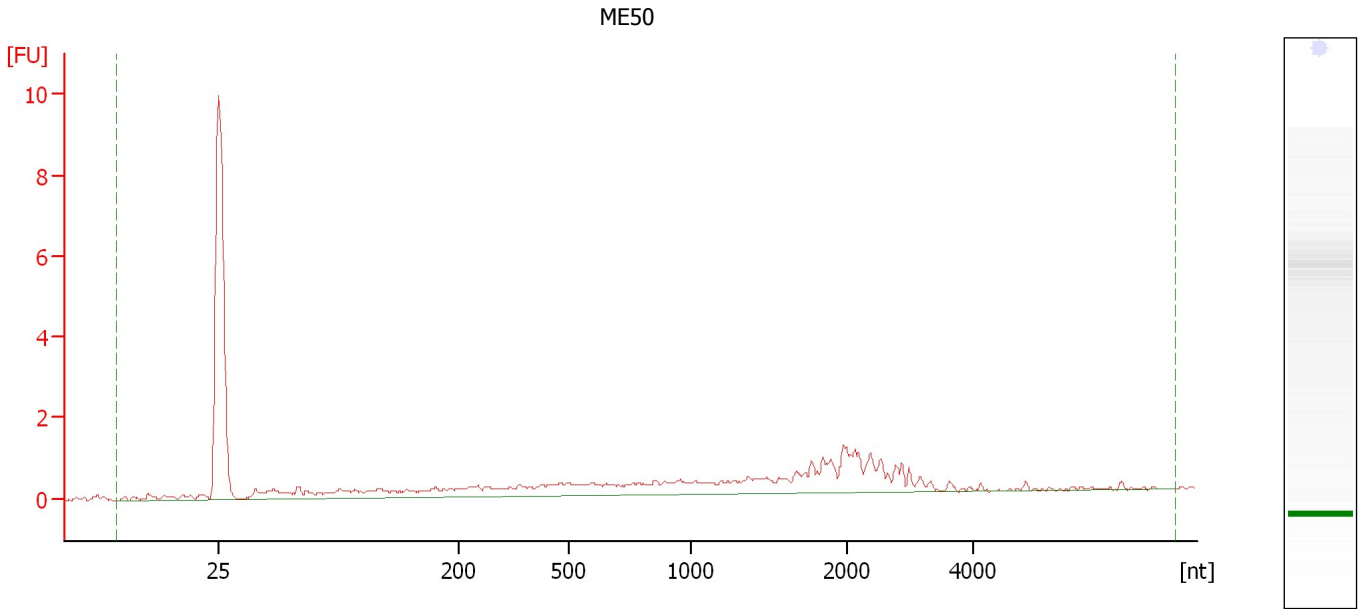
Fragment table for sample 10 : ME36

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	901	1,167	2.3	14.2
28S	1,909	2,232	1.5	9.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



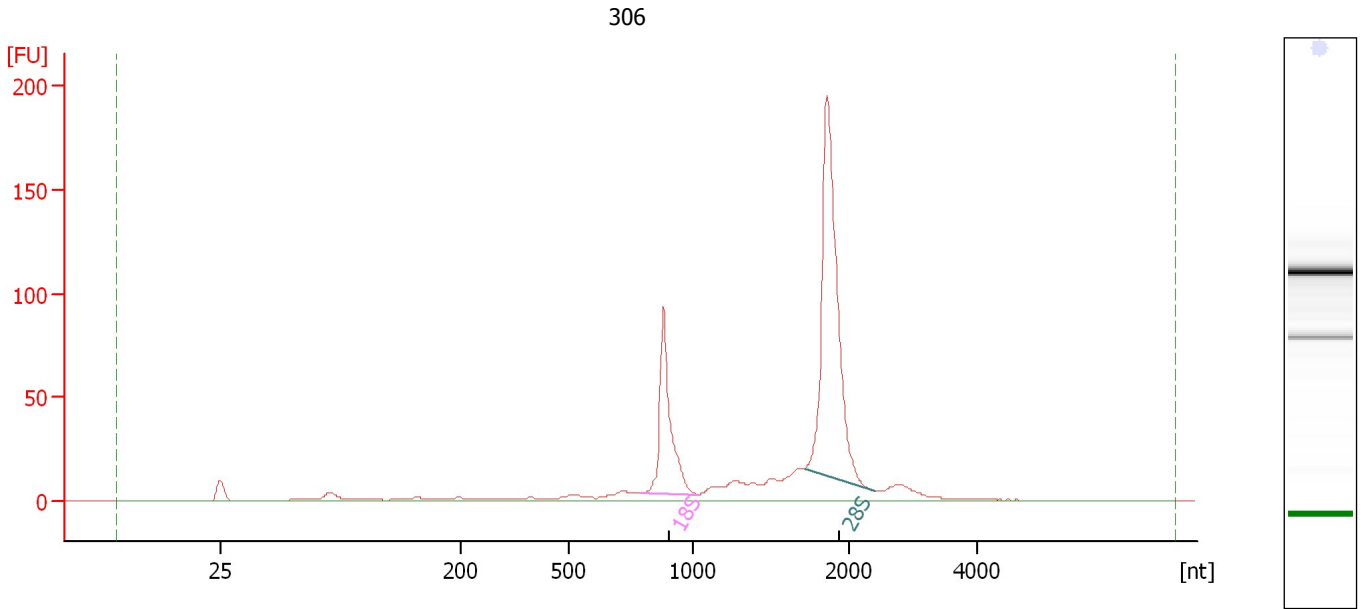
Overall Results for sample 11 : ME50

RNA Area:	24.4	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 306

RNA Area:	664.7	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	870 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.6	Result Flagging Label:	RIN: 9.50

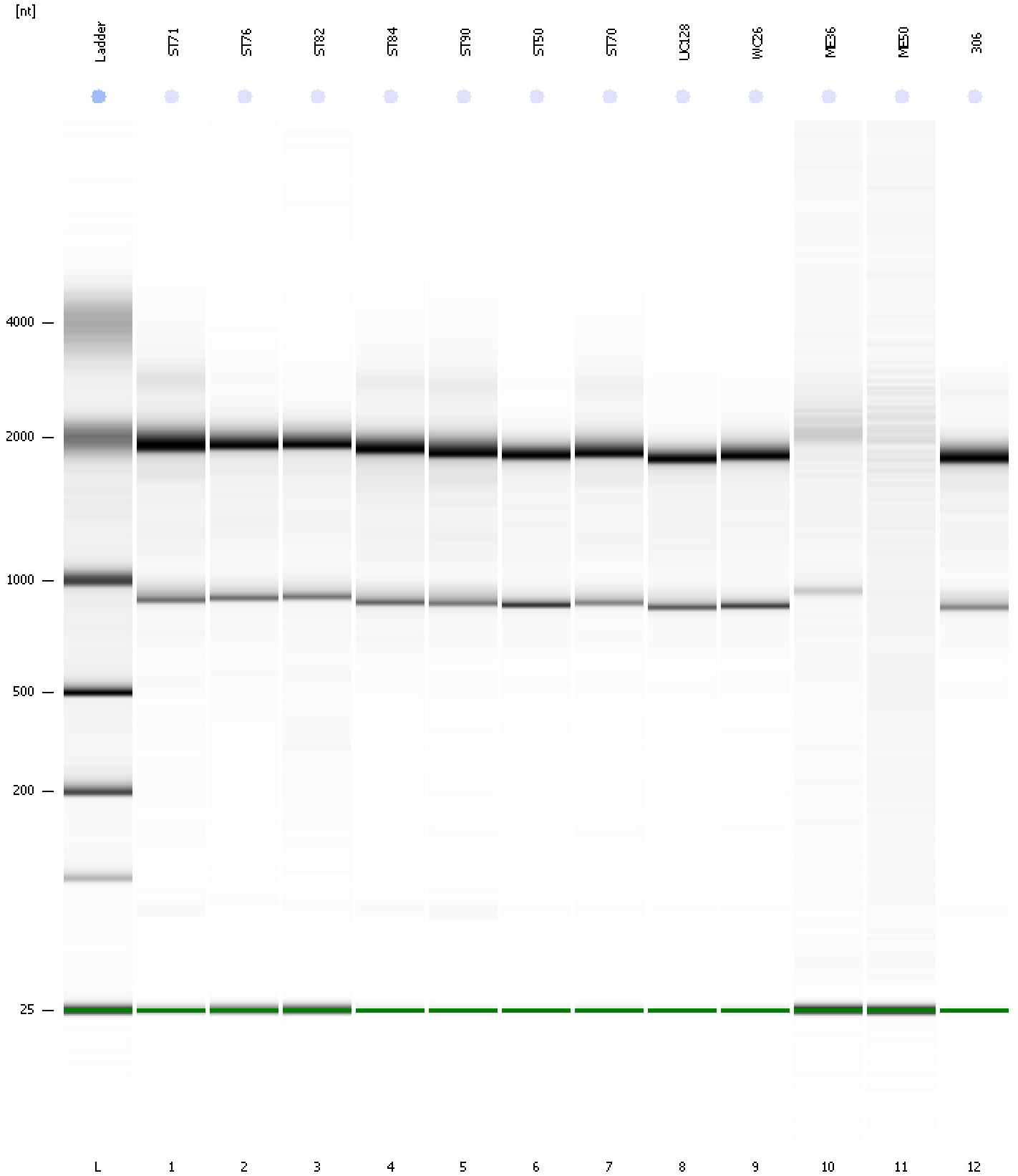
Fragment table for sample 12 : 306

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	793	1,038	108.8	16.4
28S	1,711	2,396	288.2	43.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
Modified: 12/2/2015 12:02:36 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad

Created: 12/2/2015 11:39:33 AM
 Modified: 12/2/2015 12:02:36 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		12/2/2015 12:02:35 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-02\2015-12-02_004.xad)		Instrument	Run		12/2/2015 11:39:39 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/2/2015 11:39:39 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/2/2015 11:39:39 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/2/2015 11:39:39 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/2/2015 11:39:39 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/2/2015 11:39:39 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/2/2015 11:39:39 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1