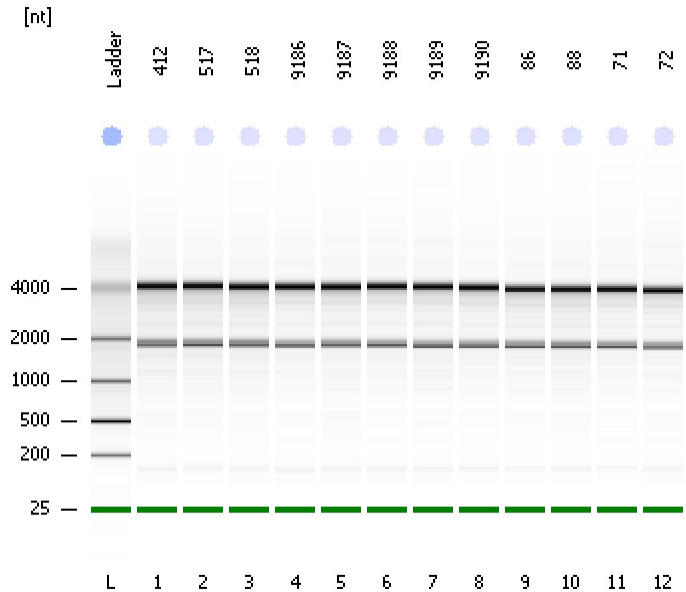


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electrophoresis File Run Summary



Instrument Information:

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

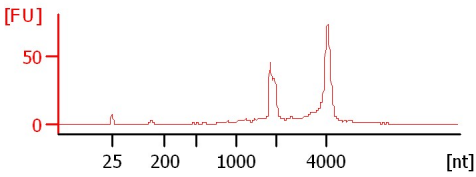
Assay Information:

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.

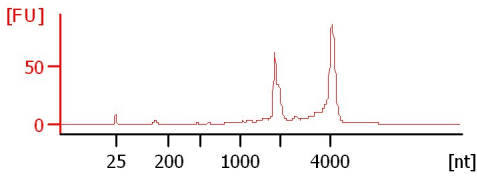
Chip Information:

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

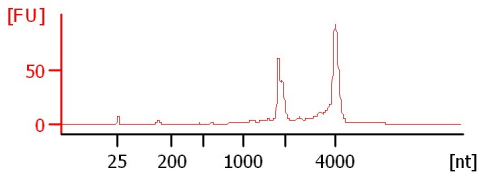
412
RIN: 9.20



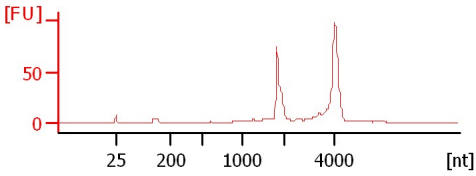
517
RIN: 9.20



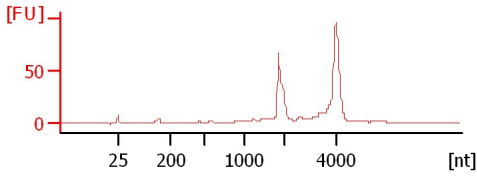
518
RIN: 9.20



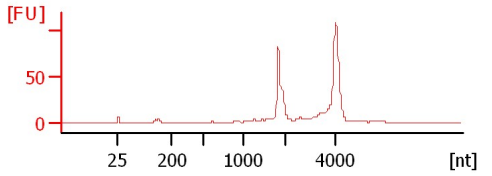
9186
RIN: 9.60



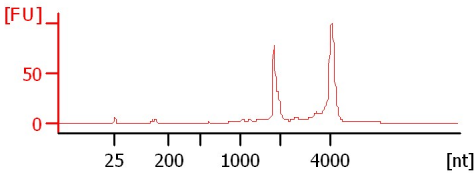
9187
RIN: 9.50



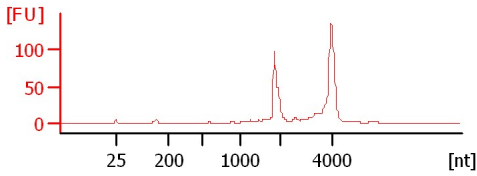
9188
RIN: 9.60



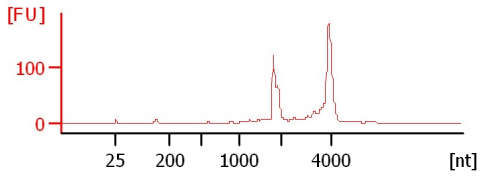
9189
RIN: 9.40



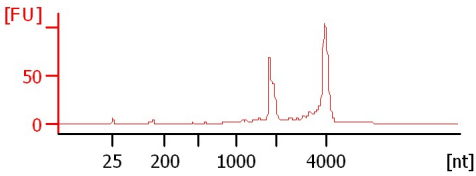
9190
RIN: 9.70



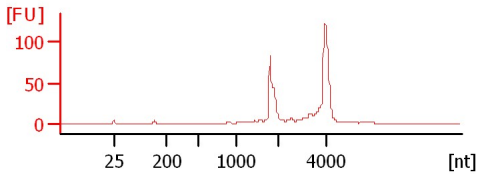
86
RIN: 9.60



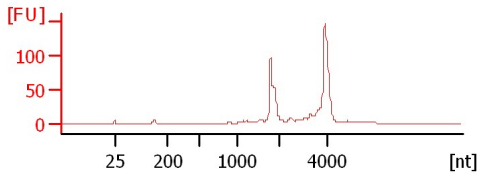
88
RIN: 9.40



71
RIN: 9.70



72
RIN: 9.60



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
 Modified: 1/20/2015 2:00:28 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
412		✓	RIN: 9.20	
517		✓	RIN: 9.20	
518		✓	RIN: 9.20	
9186		✓	RIN: 9.60	
9187		✓	RIN: 9.50	
9188		✓	RIN: 9.60	
9189		✓	RIN: 9.40	
9190		✓	RIN: 9.70	
86		✓	RIN: 9.60	
88		✓	RIN: 9.40	
71		✓	RIN: 9.70	
72		✓	RIN: 9.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

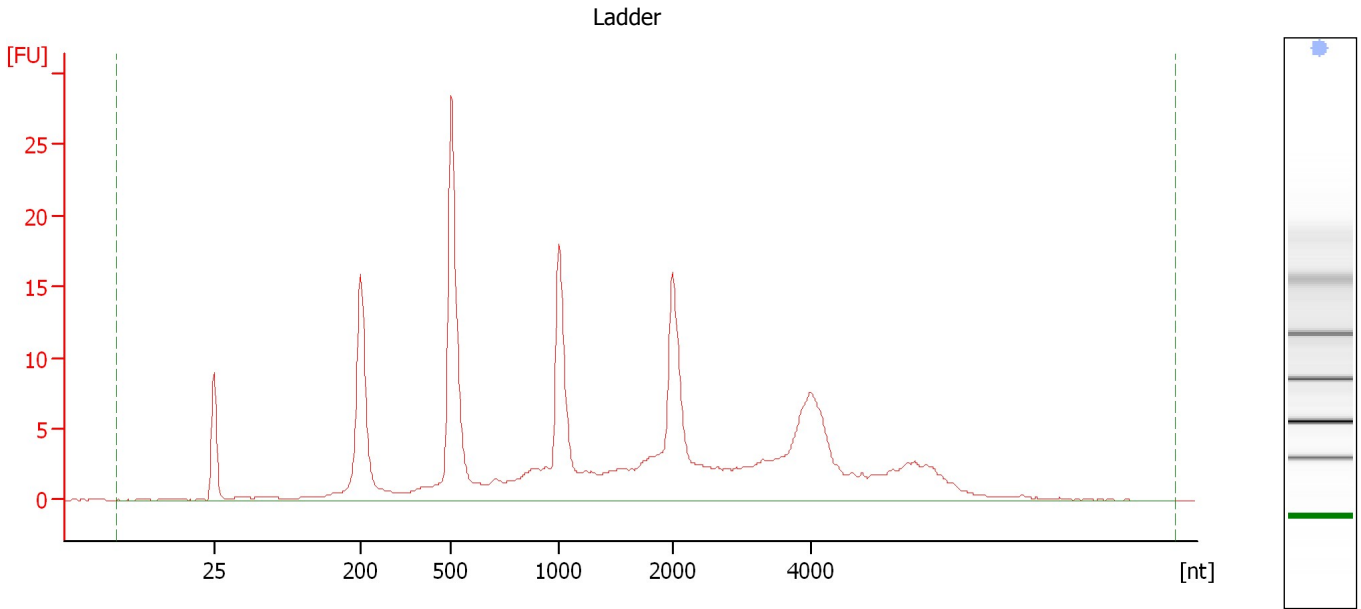
Ladder

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\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary



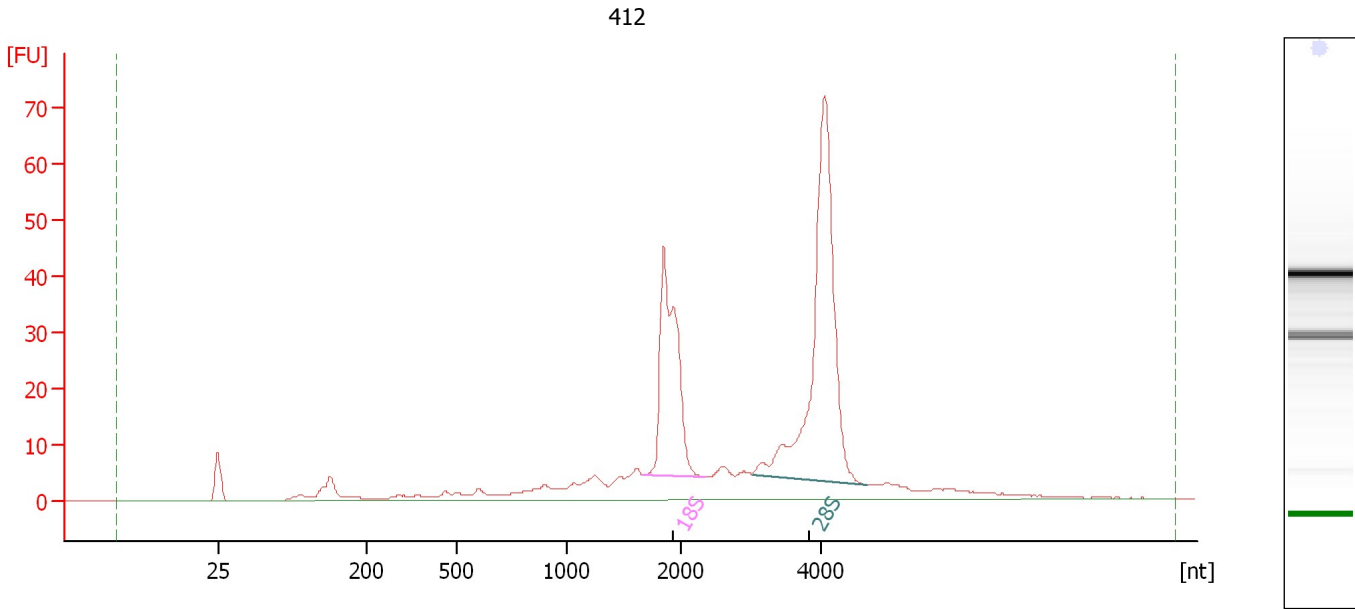
Overall Results for Ladder

RNA Area:	230.0	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 412

RNA Area: 406.2 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 265 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.20

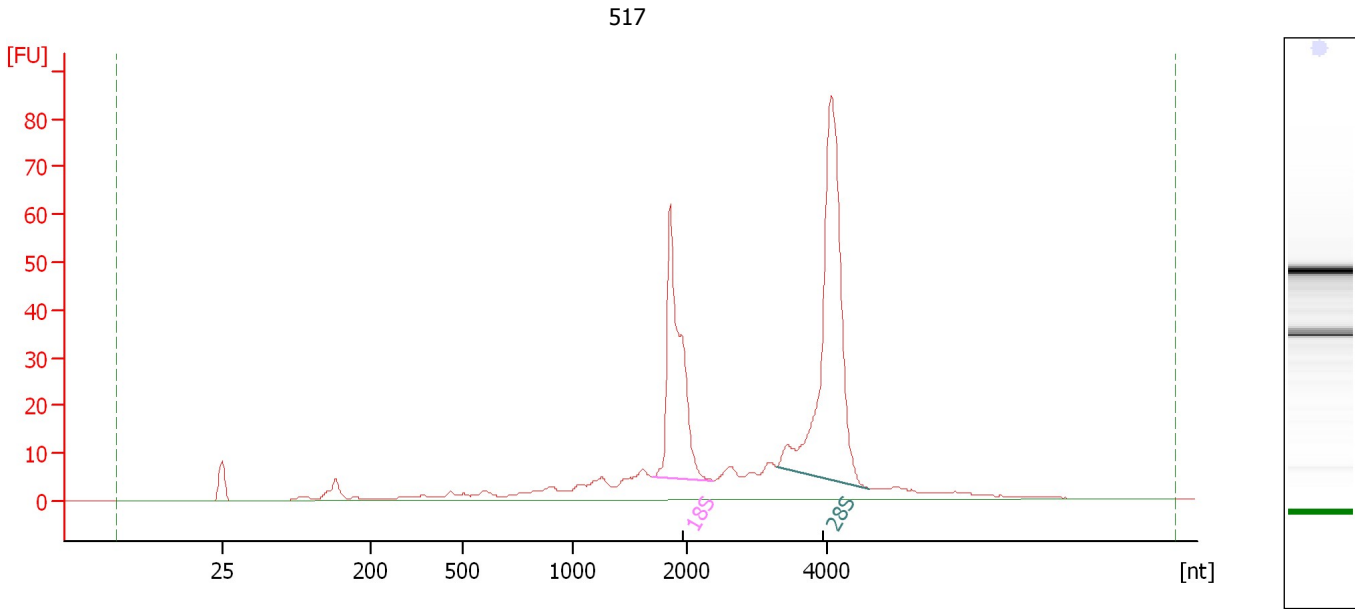
Fragment table for sample 1 : 412

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	2,342	77.6	19.1
28S	3,028	4,661	144.8	35.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 517

RNA Area:	449.9	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	293 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.20

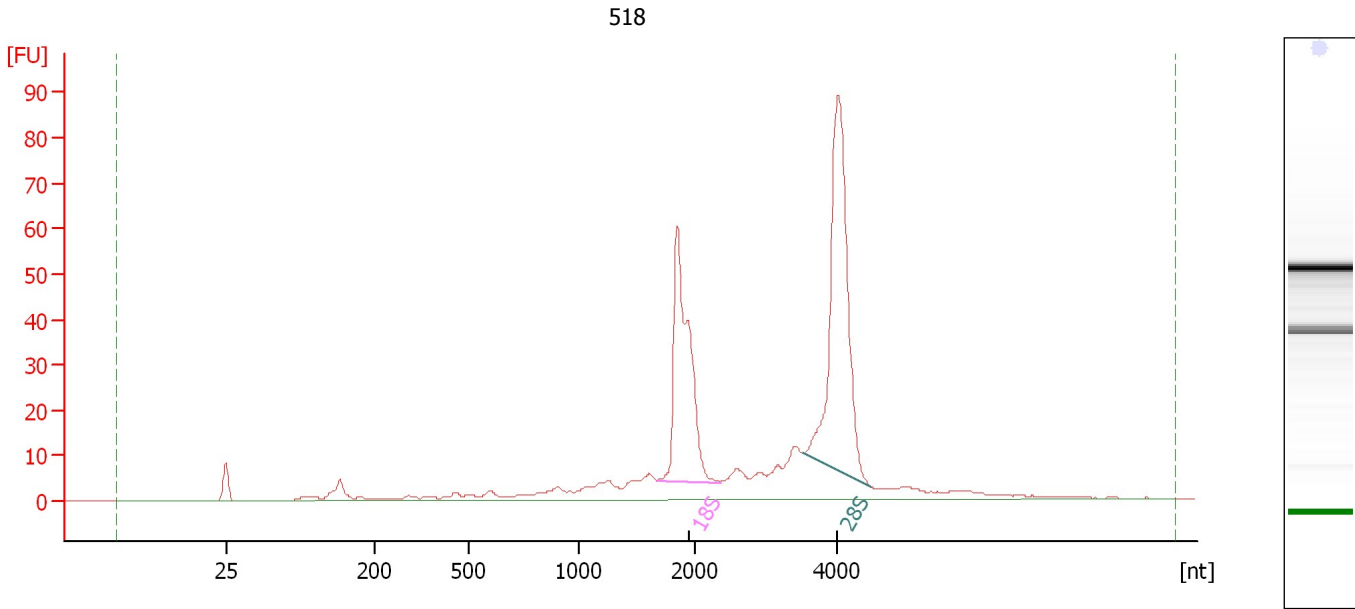
Fragment table for sample 2 : 517

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,709	2,375	90.2	20.1
28S	3,270	4,574	156.1	34.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 518

RNA Area:	457.2	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	298 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.20

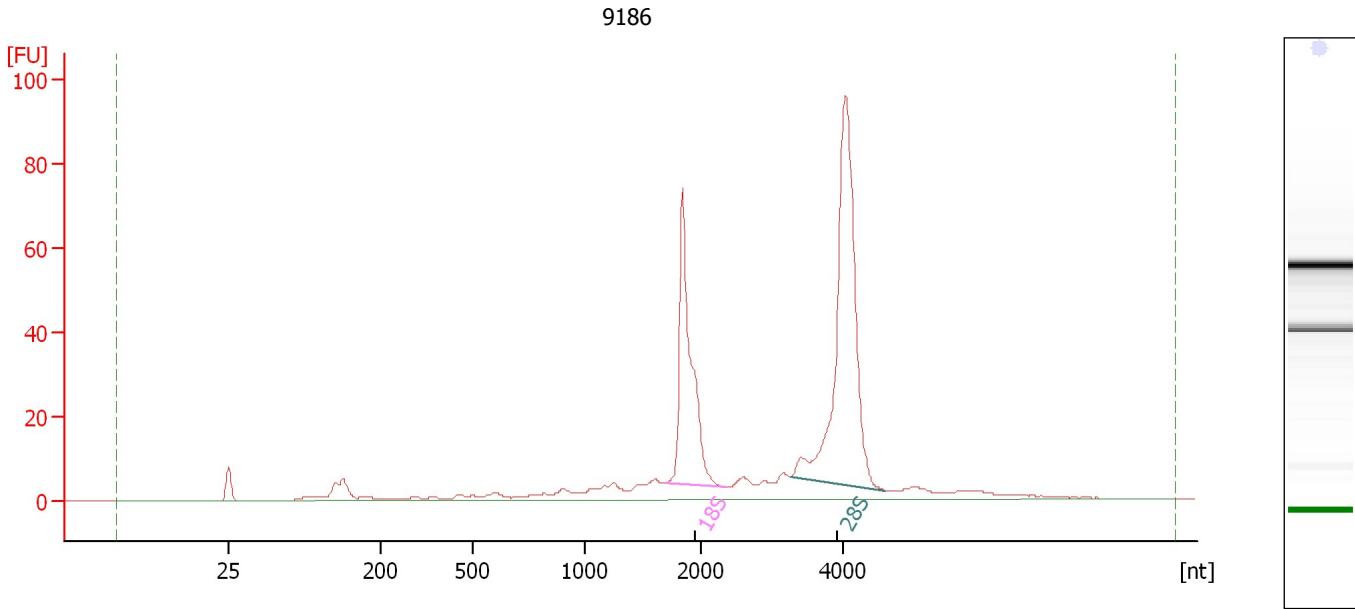
Fragment table for sample 3 : 518

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,669	2,363	96.4	21.1
28S	3,521	4,469	143.2	31.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
 Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 9186

RNA Area:	443.8	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	289 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.60

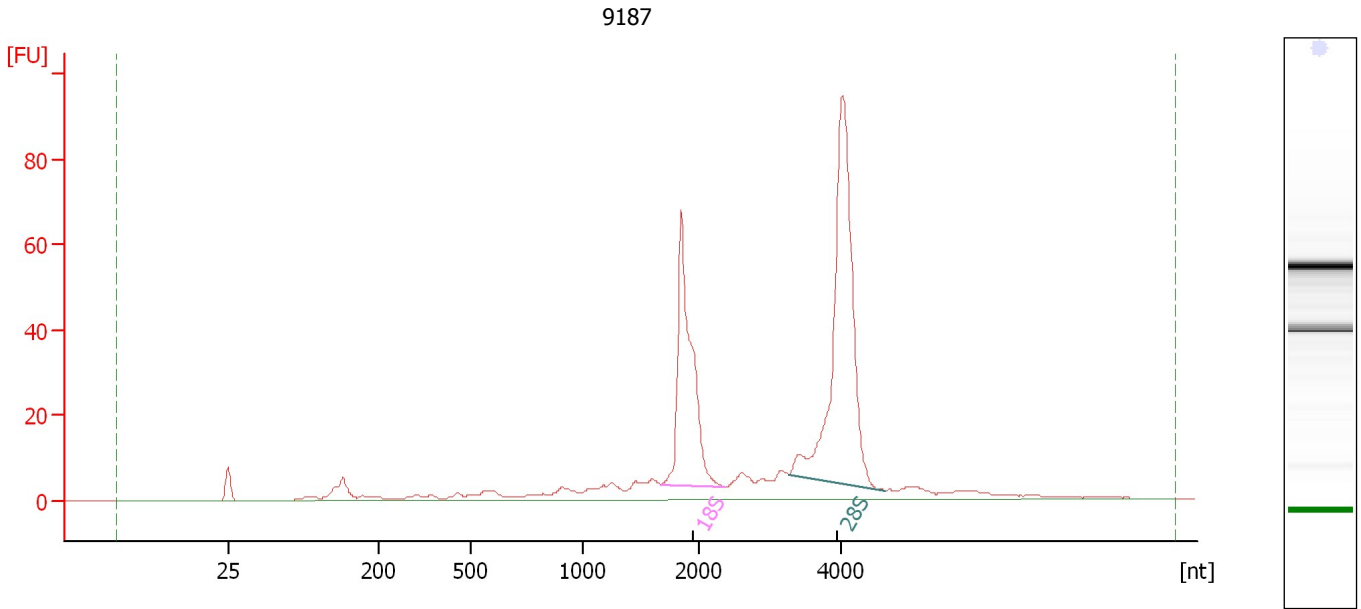
Fragment table for sample 4 : 9186

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	2,351	95.0	21.4
28S	3,248	4,578	173.6	39.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 9187

RNA Area:	456.7	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	298 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

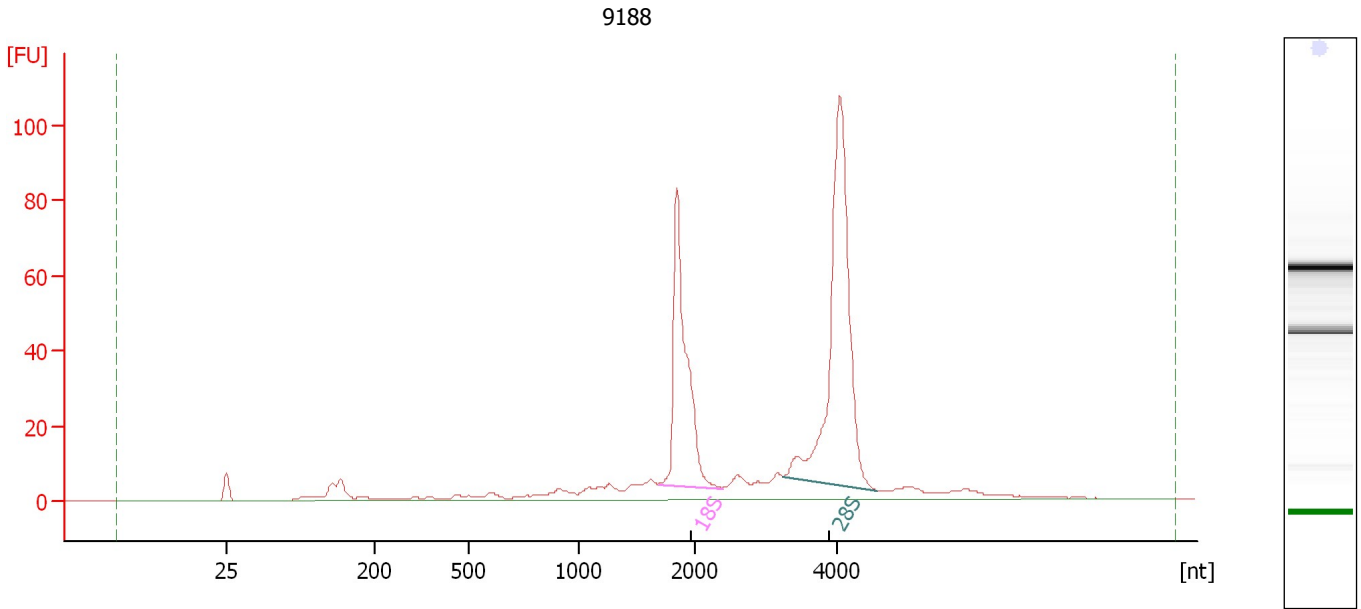
Fragment table for sample 5 : 9187

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	2,365	100.2	22.0
28S	3,249	4,612	174.6	38.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 9188

RNA Area:	507.2	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	331 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.60

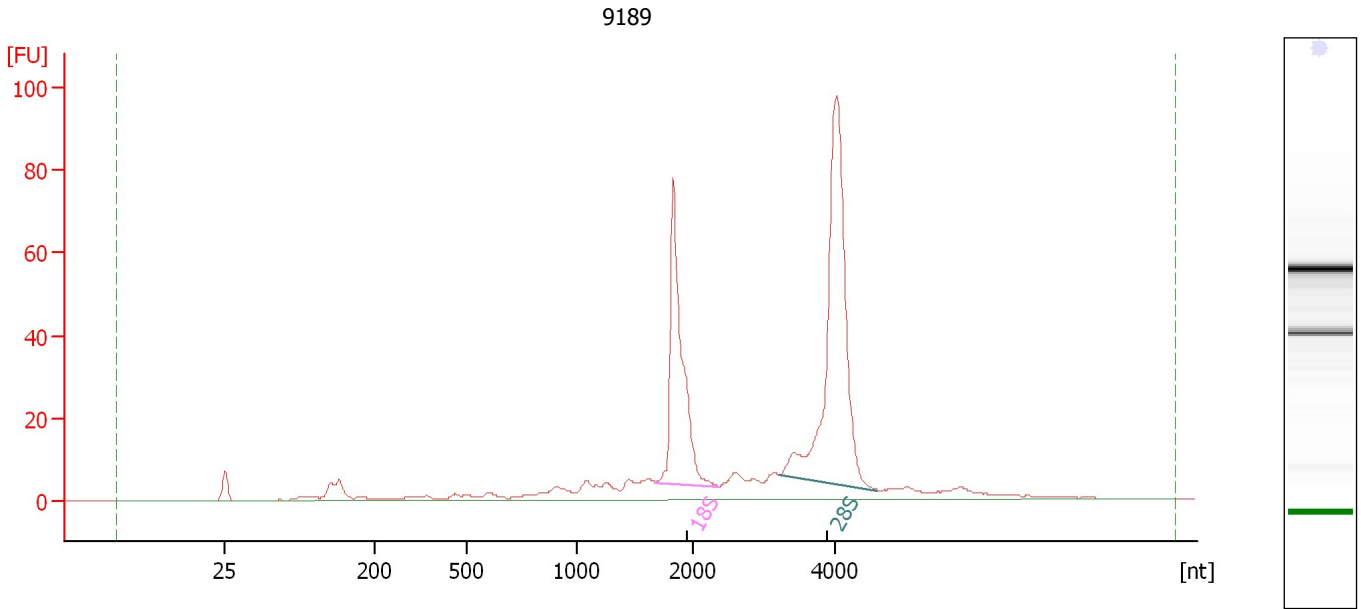
Fragment table for sample 6 : 9188

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	2,393	111.3	21.9
28S	3,251	4,574	193.7	38.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
 Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 9189

RNA Area:	463.4	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	302 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.40

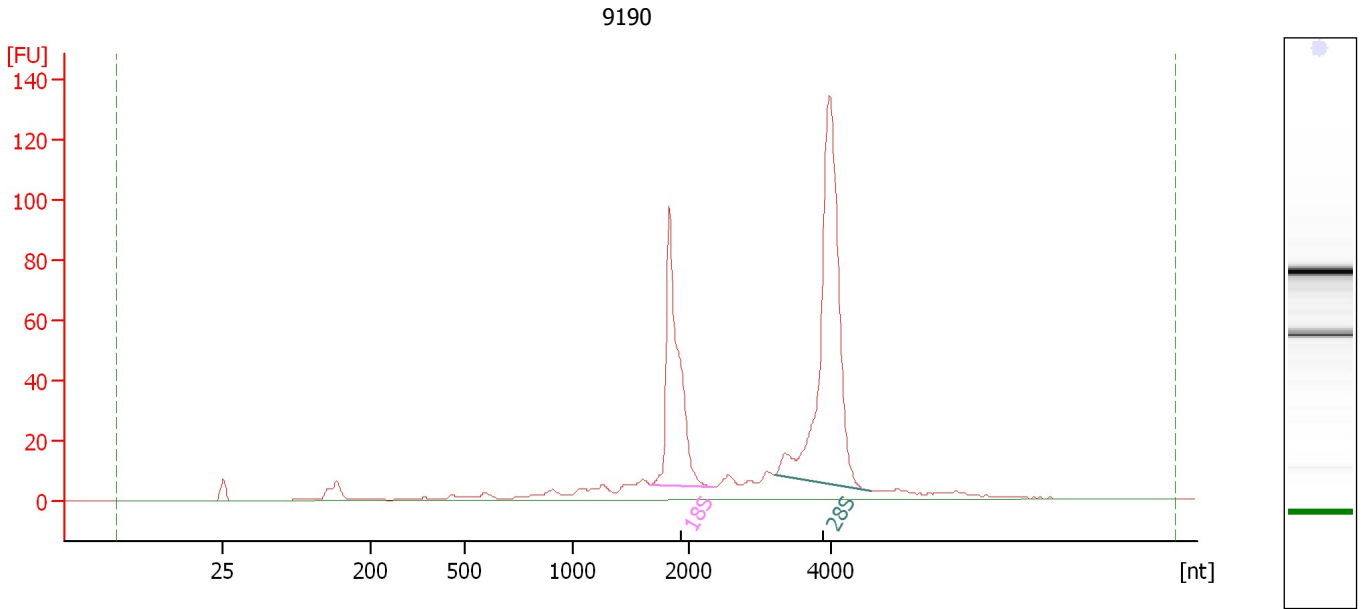
Fragment table for sample 7 : 9189

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,362	97.8	21.1
28S	3,221	4,608	174.5	37.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 9190

RNA Area: 612.9 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 400 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.70

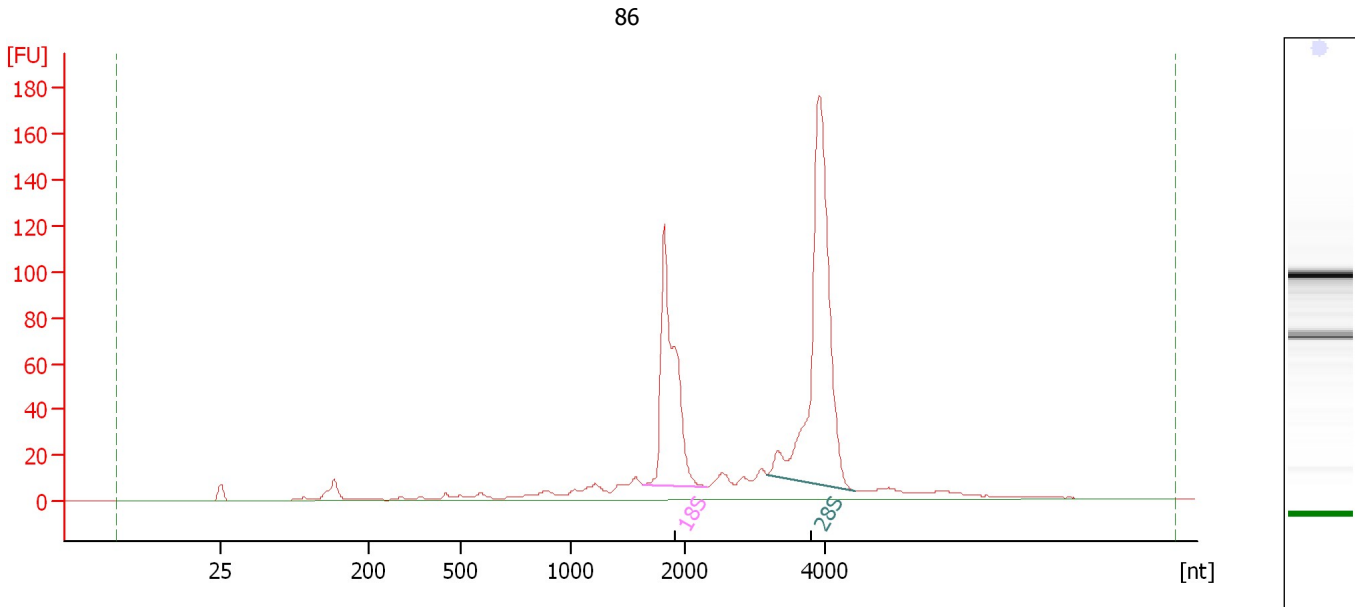
Fragment table for sample 8 : 9190

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	2,346	133.1	21.7
28S	3,208	4,570	245.4	40.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 86

RNA Area: 793.9 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 518 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.60

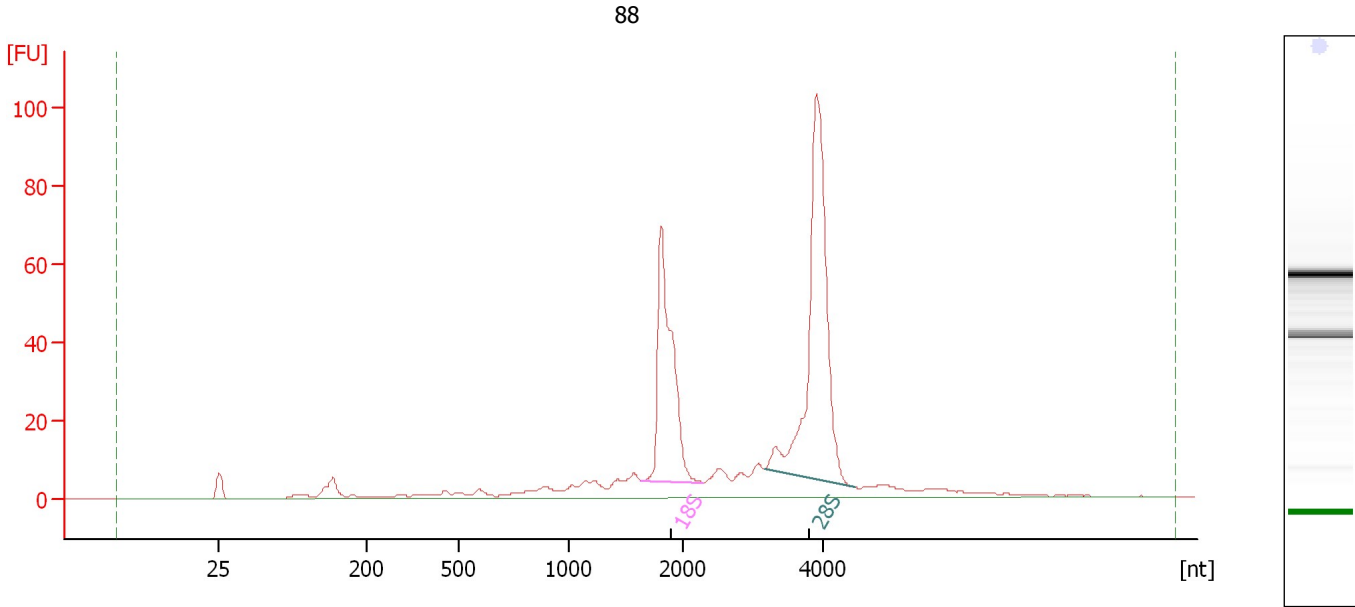
Fragment table for sample 9 : 86

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	2,313	176.2	22.2
28S	3,179	4,425	307.6	38.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 88

RNA Area: 501.1 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 327 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.40

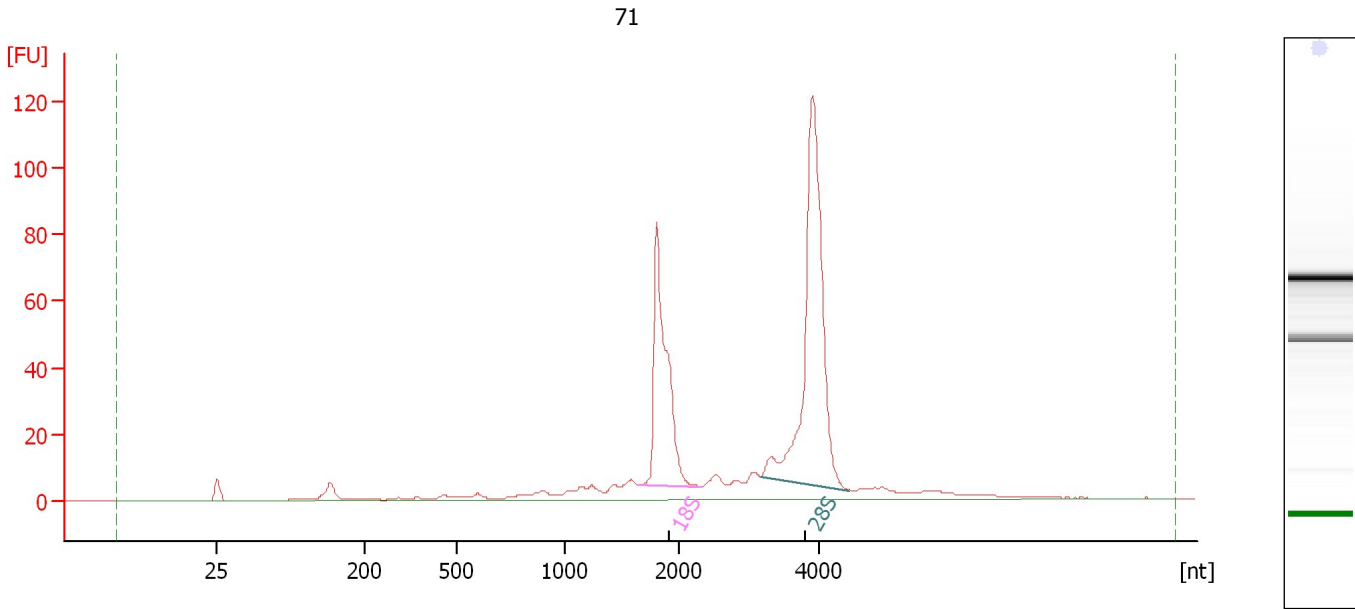
Fragment table for sample 10 : 88

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	2,297	105.7	21.1
28S	3,165	4,444	180.8	36.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 71

RNA Area: 536.7 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 350 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.70

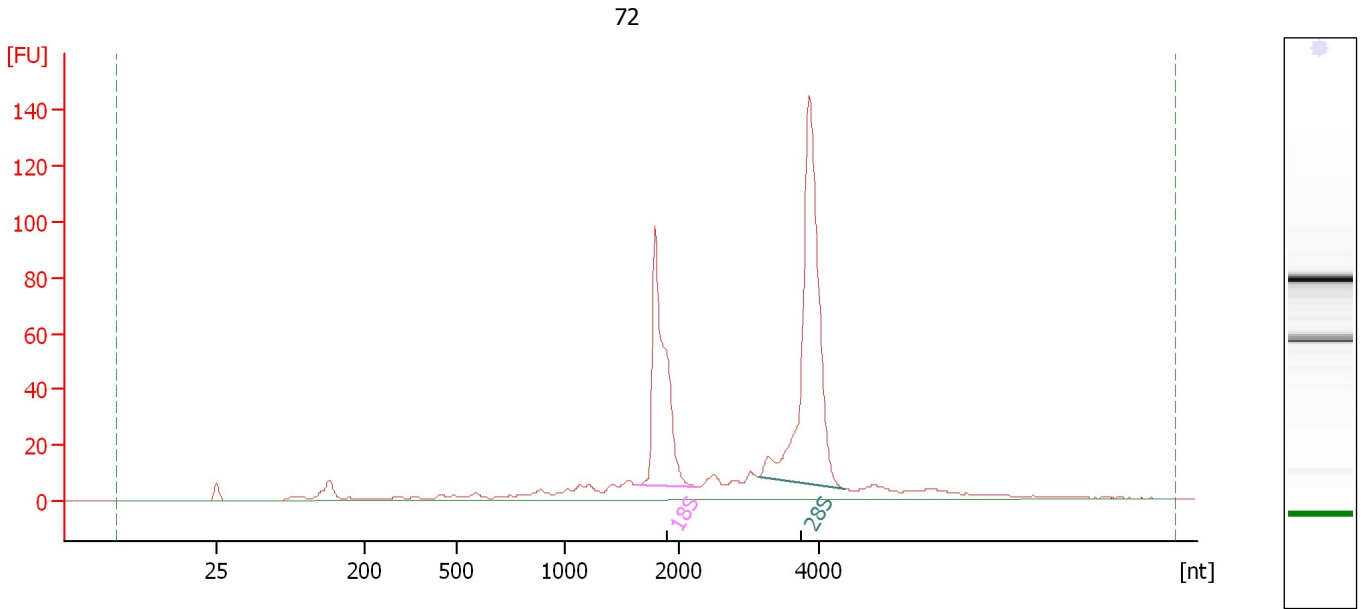
Fragment table for sample 11 : 71

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	2,295	117.6	21.9
28S	3,166	4,435	210.6	39.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 72

RNA Area:	631.3	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	412 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.60

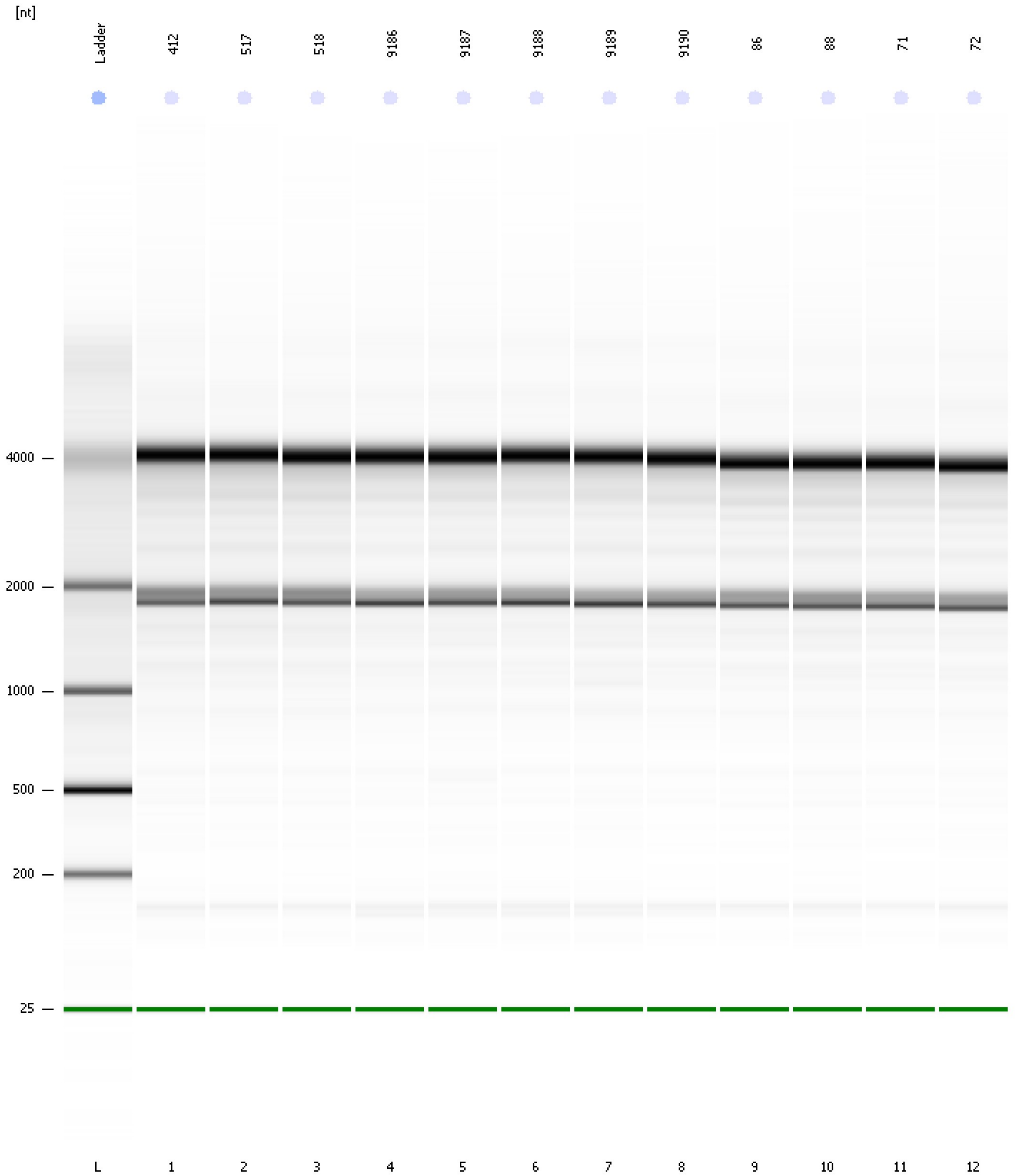
Fragment table for sample 12 : 72

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	2,280	141.9	22.5
28S	3,136	4,374	241.9	38.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
Modified: 1/20/2015 2:00:28 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad

Created: 1/20/2015 1:36:36 PM
 Modified: 1/20/2015 2:00:28 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		1/20/2015 2:00:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-20\2015-01-20_004.xad)		Instrument	Run		1/20/2015 1:36:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/20/2015 1:36:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/20/2015 1:36:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/20/2015 1:36:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/20/2015 1:36:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/20/2015 1:36:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/20/2015 1:36:42 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1