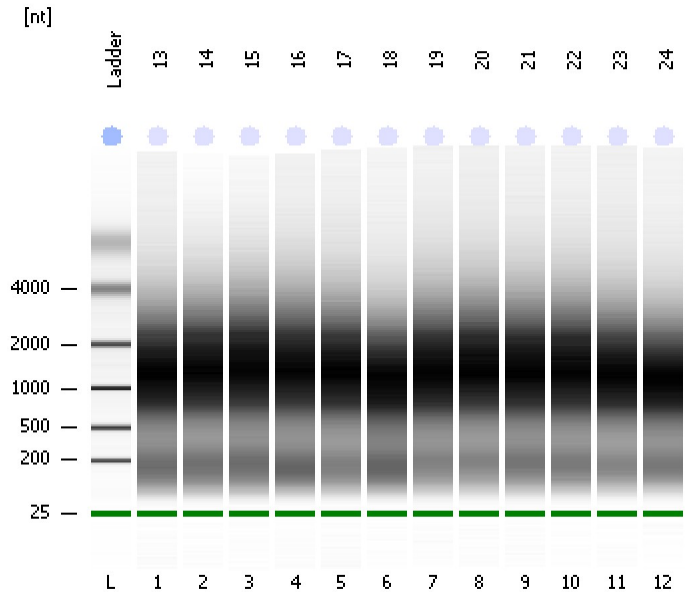


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electrophoresis File Run Summary



Instrument Information:

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

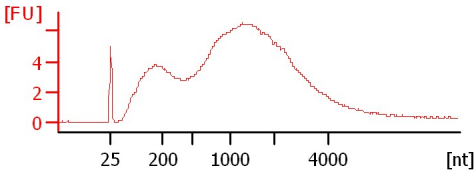
Assay Information:

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.

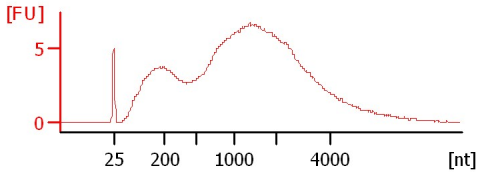
Chip Information:

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

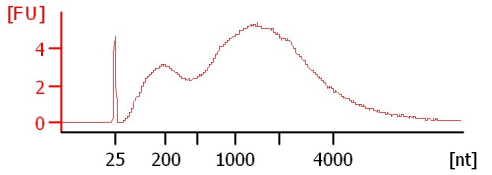
13
RIN: 2.70



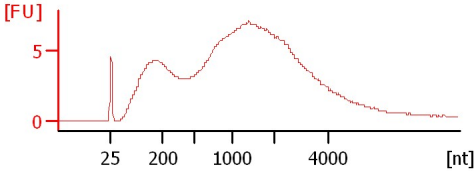
14
RIN: 3.50



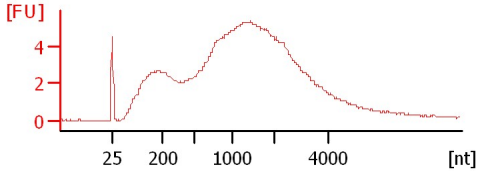
15
RIN: 3.80



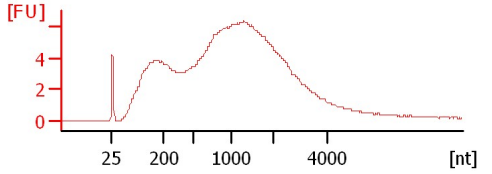
16
RIN: 2.90



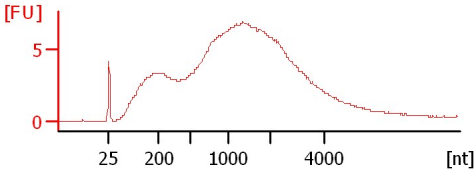
17
RIN: 3.80



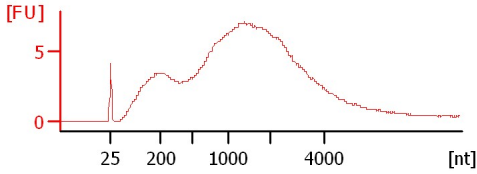
18
RIN: 2.90



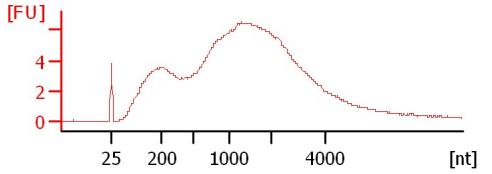
19
RIN: 3.20



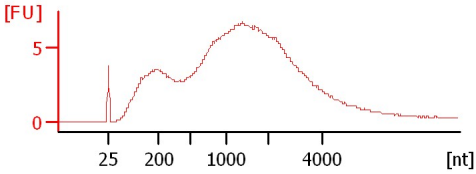
20
RIN: 3.70



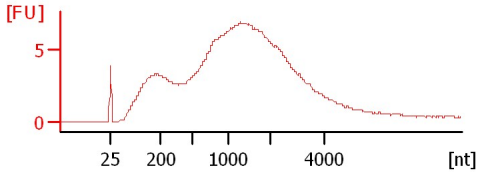
21
RIN: 4.20



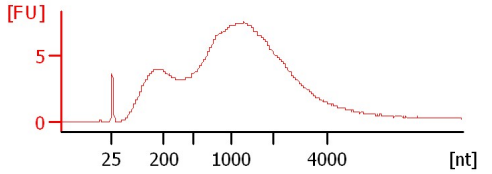
22
RIN: 4



23
RIN: 2.70



24
RIN: 3.40



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
13		✓	RIN: 2.70	
14		✓	RIN: 3.50	
15		✓	RIN: 3.80	
16		✓	RIN: 2.90	
17		✓	RIN: 3.80	
18		✓	RIN: 2.90	
19		✓	RIN: 3.20	
20		✓	RIN: 3.70	
21		✓	RIN: 4.20	
22		✓	RIN:4	
23		✓	RIN: 2.70	
24		✓	RIN: 3.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 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] : 0.014
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

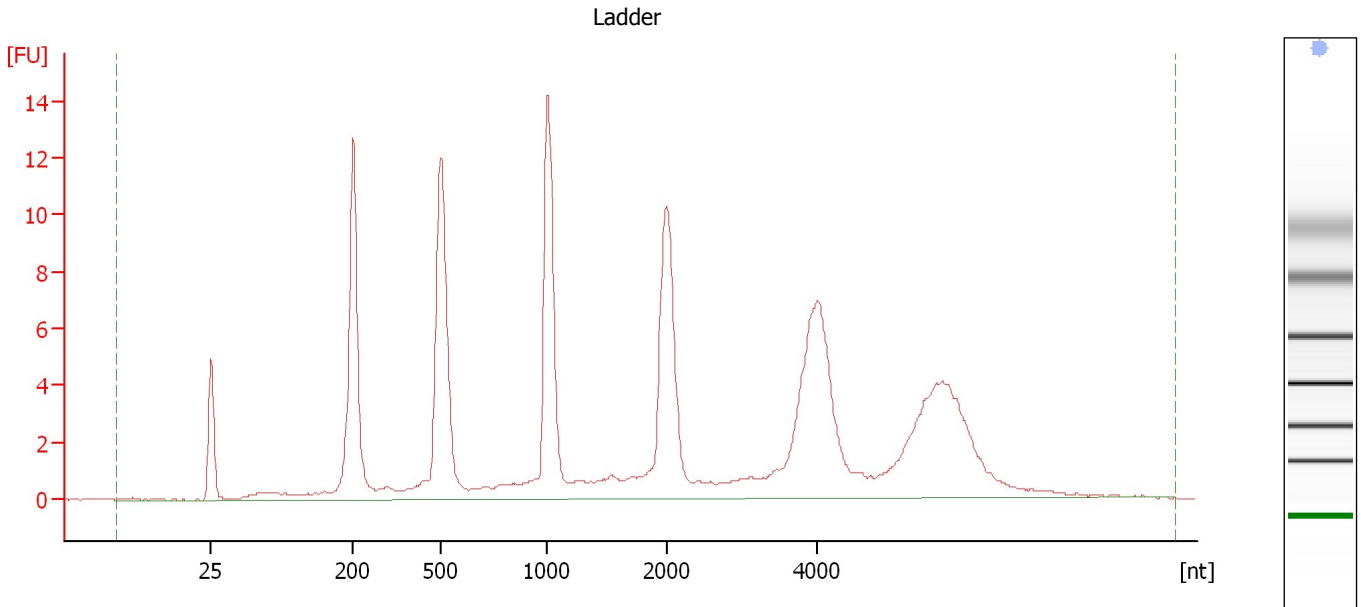
Ladder

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\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary



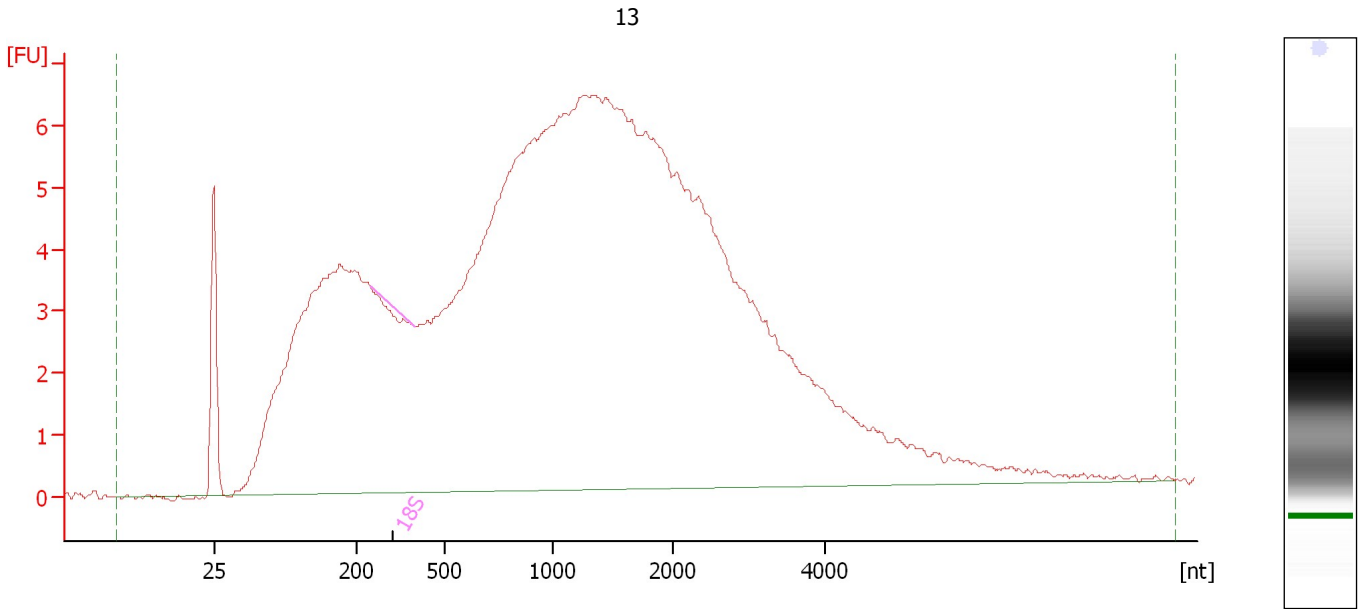
Overall Results for Ladder

RNA Area:	150.2	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\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 13

RNA Area:	281.3	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	281 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

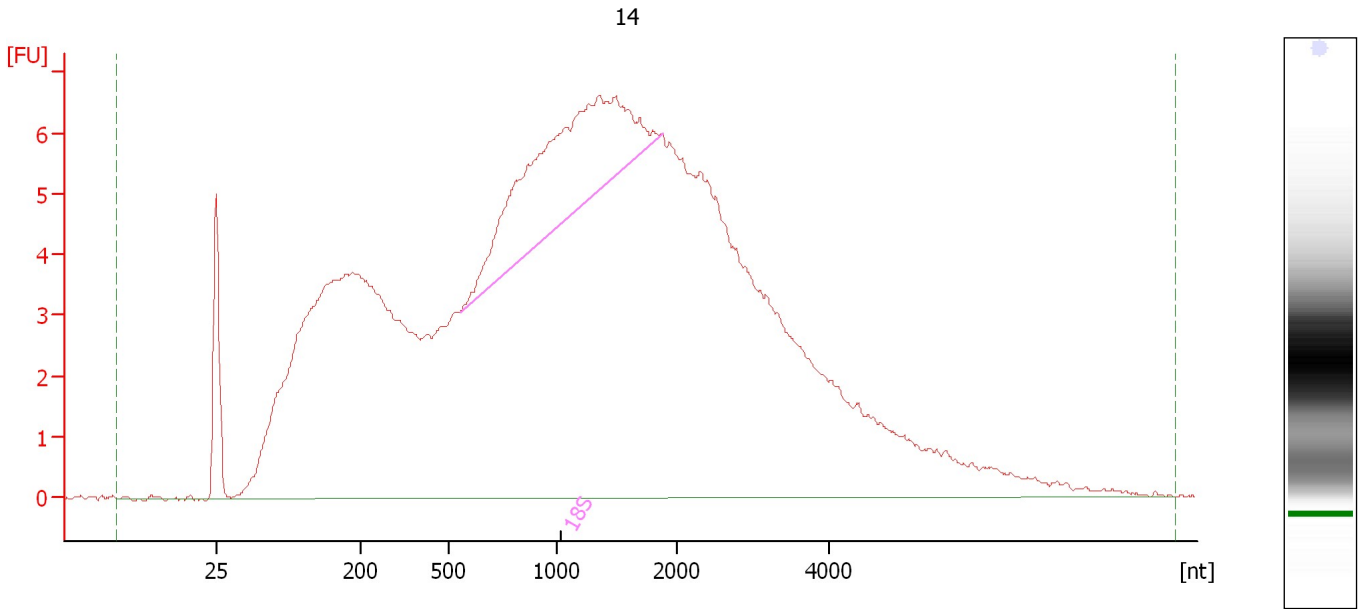
Fragment table for sample 1 : 13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	244	398	0.0	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 14

RNA Area:	296.1	RNA Integrity Number (RIN):	3.5 (B.02.08)
RNA Concentration:	296 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.50

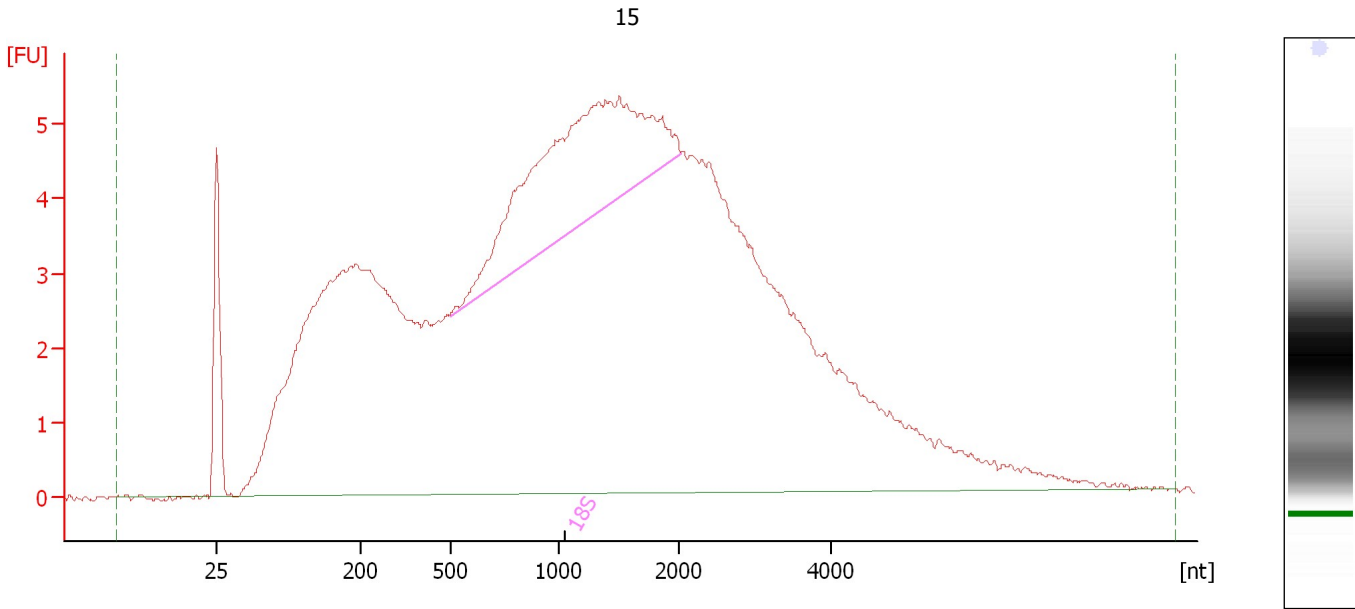
Fragment table for sample 2 : 14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	553	1,888	23.7	8.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 15

RNA Area:	243.8	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	243 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.80

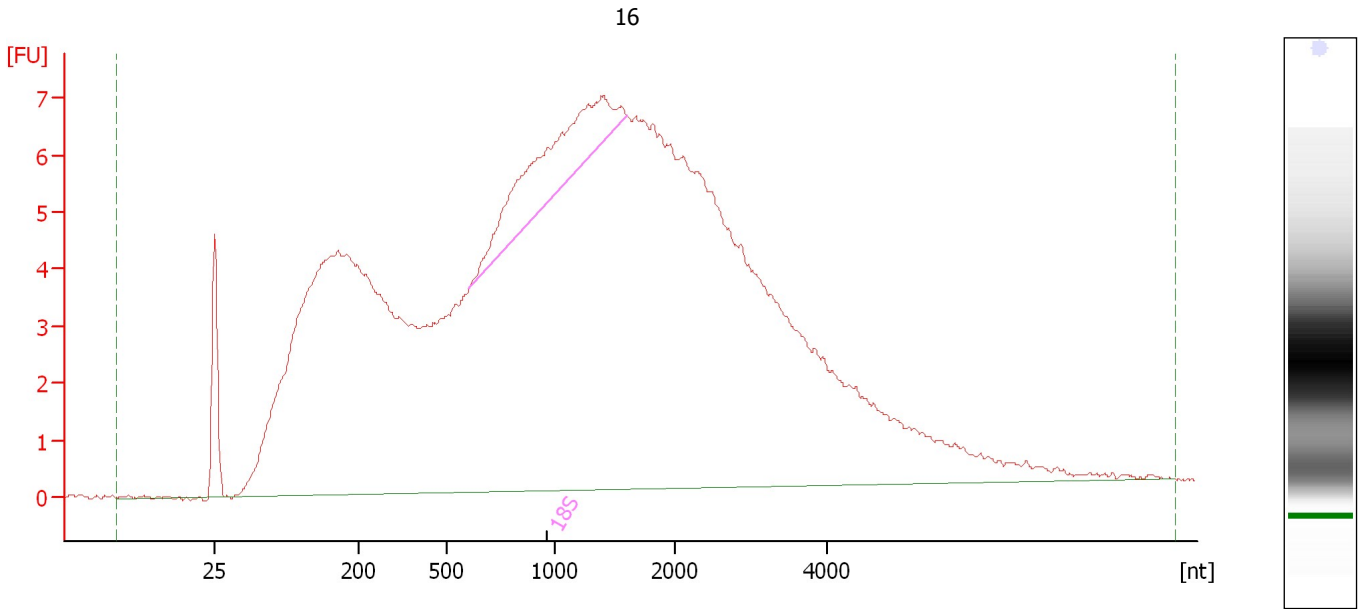
Fragment table for sample 3 : 15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	501	2,022	23.6	9.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 16

RNA Area:	314.9	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	314 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

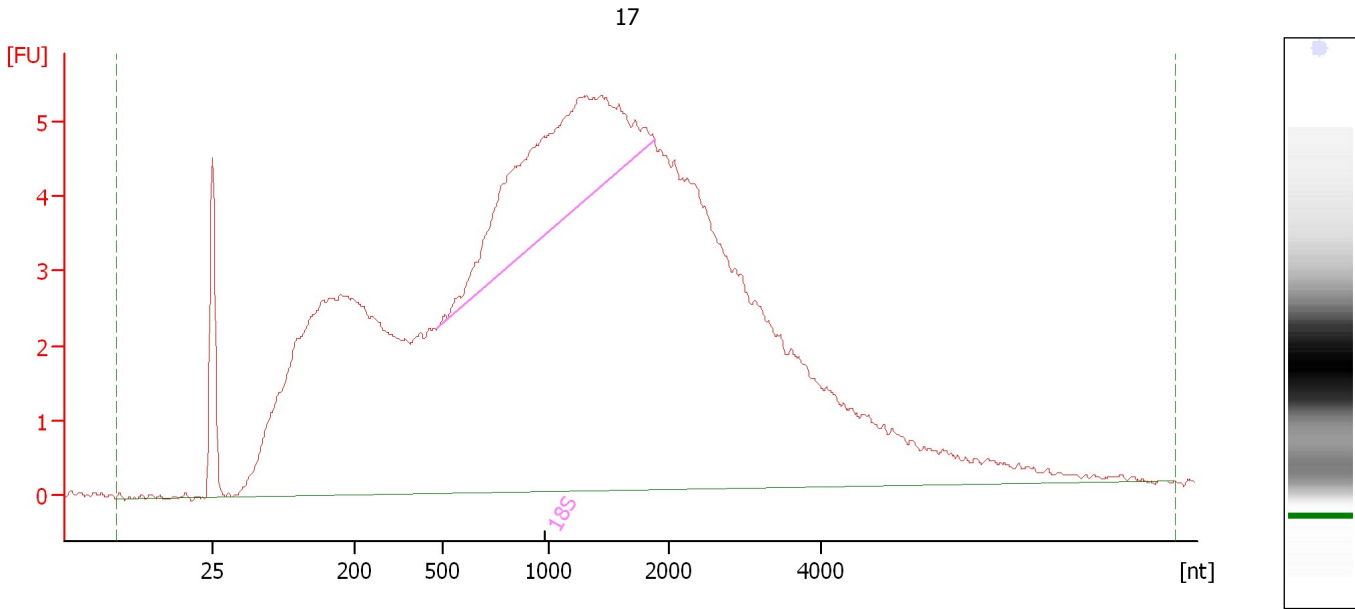
Fragment table for sample 4 : 16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	605	1,601	12.9	4.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 17

RNA Area:	227.5	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	227 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.80

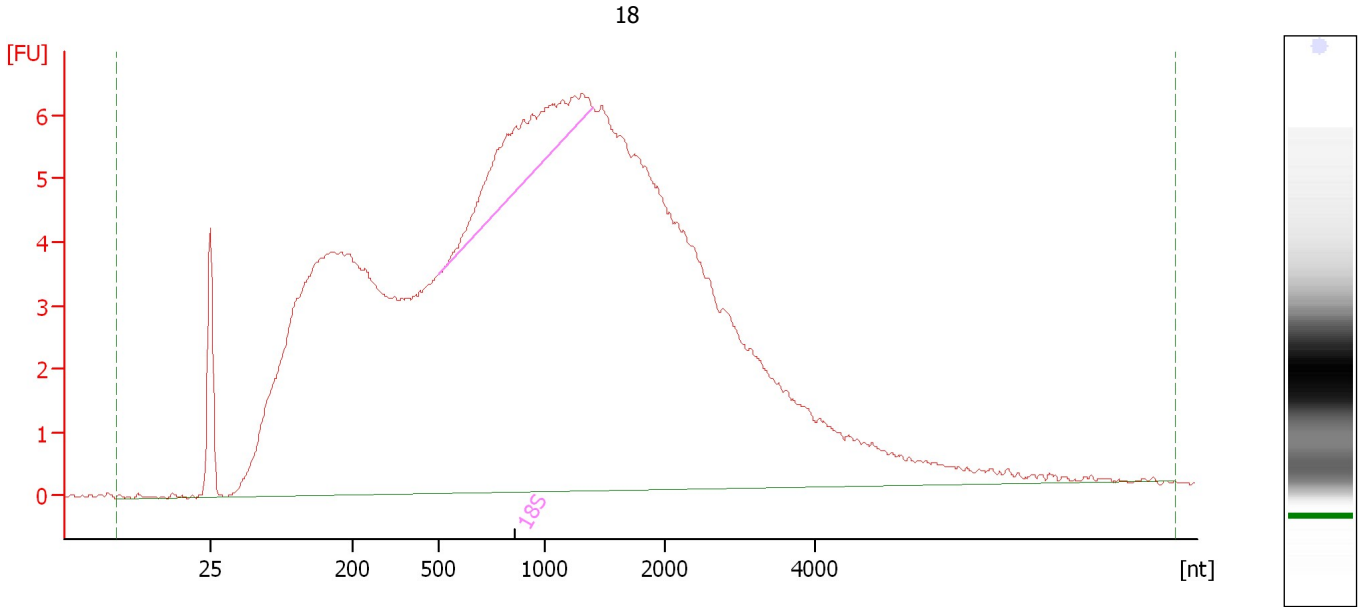
Fragment table for sample 5 : 17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	483	1,884	21.9	9.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 18

RNA Area:	276.8	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	276 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

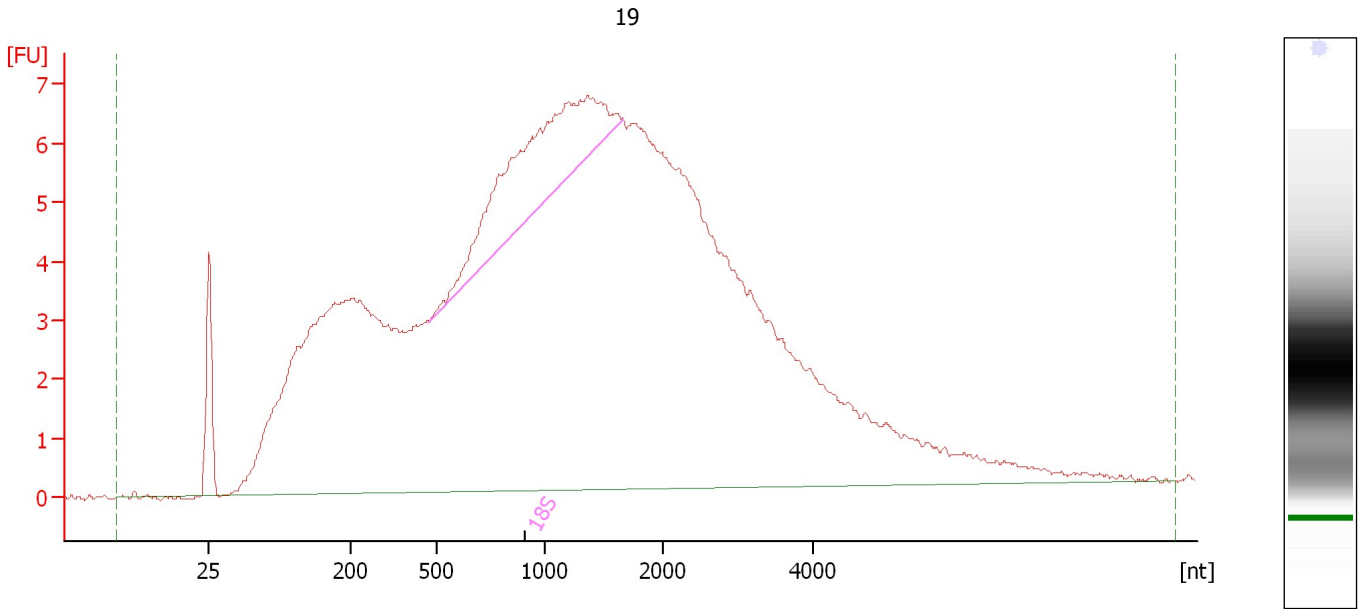
Fragment table for sample 6 : 18

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	502	1,403	11.2	4.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 19

RNA Area:	291.8	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	291 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.20

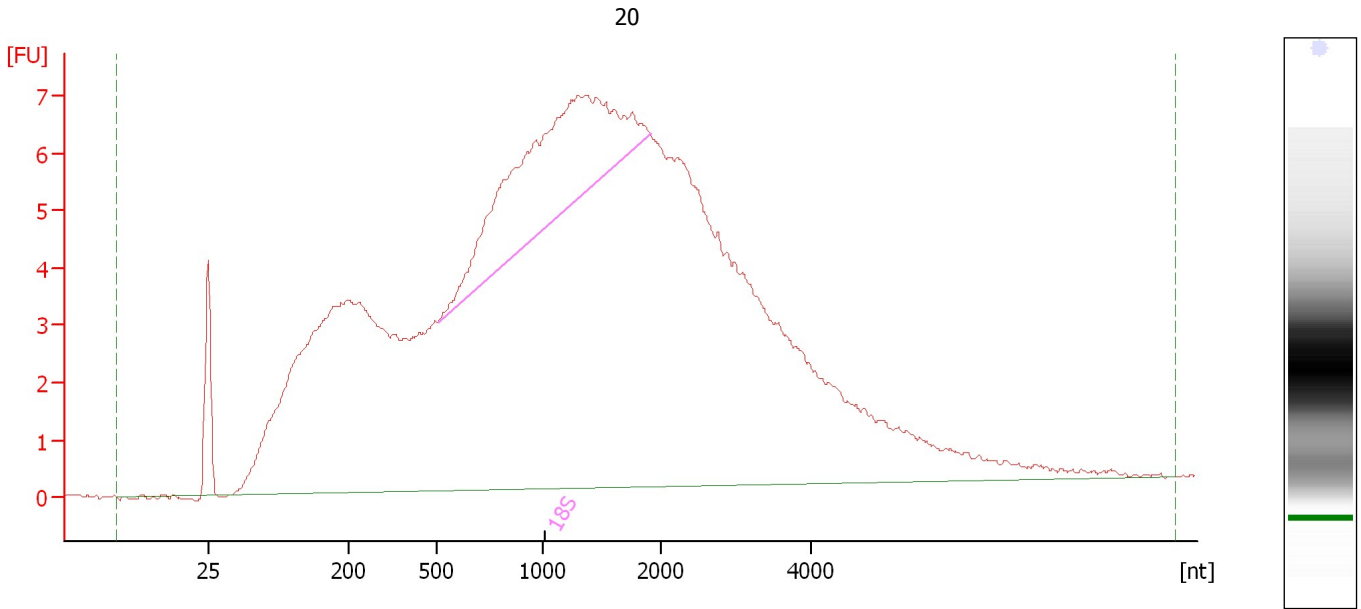
Fragment table for sample 7 : 19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	470	1,672	18.8	6.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 20

RNA Area:	296.2	RNA Integrity Number (RIN):	3.7 (B.02.08)
RNA Concentration:	296 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.70

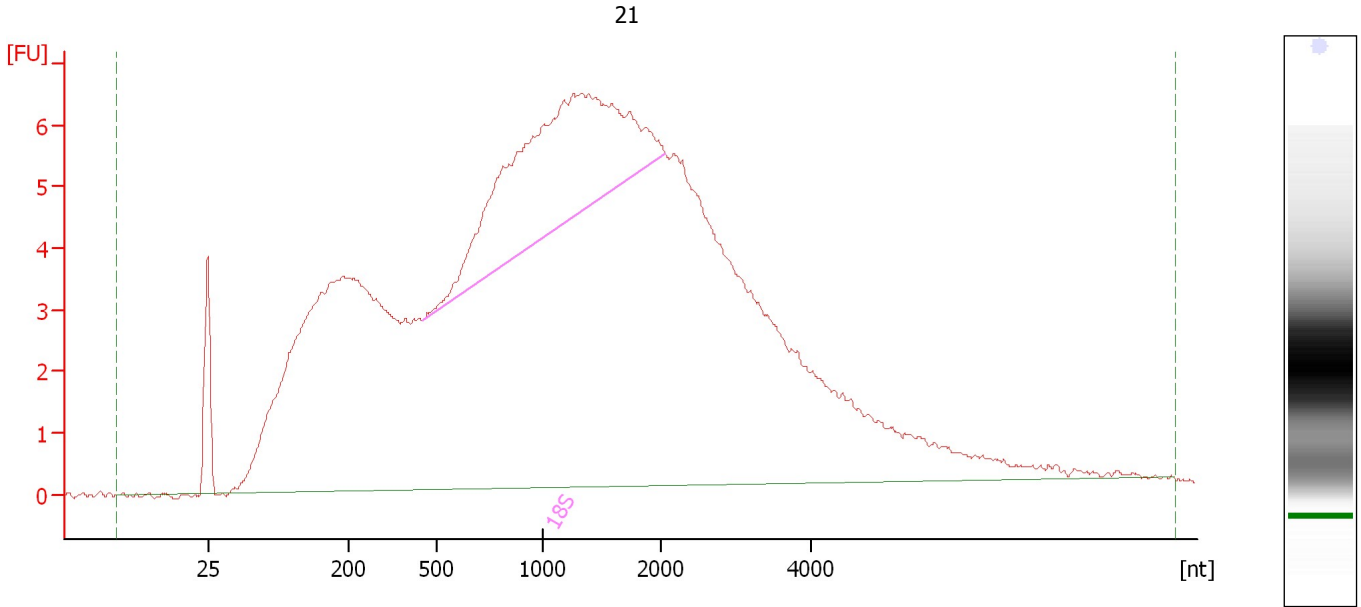
Fragment table for sample 8 : 20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	511	1,915	27.1	9.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 21

RNA Area:	284.9	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	284 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.20

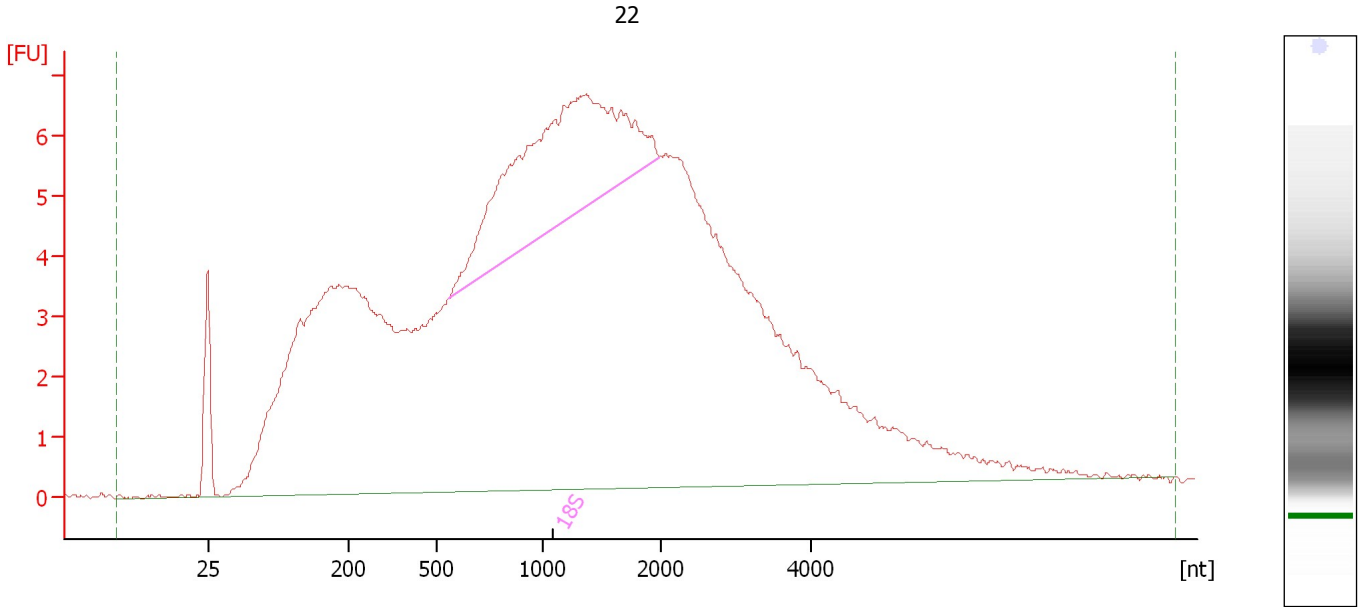
Fragment table for sample 9 : 21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	453	2,066	32.3	11.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 22

RNA Area:	290.4	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	290 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:4

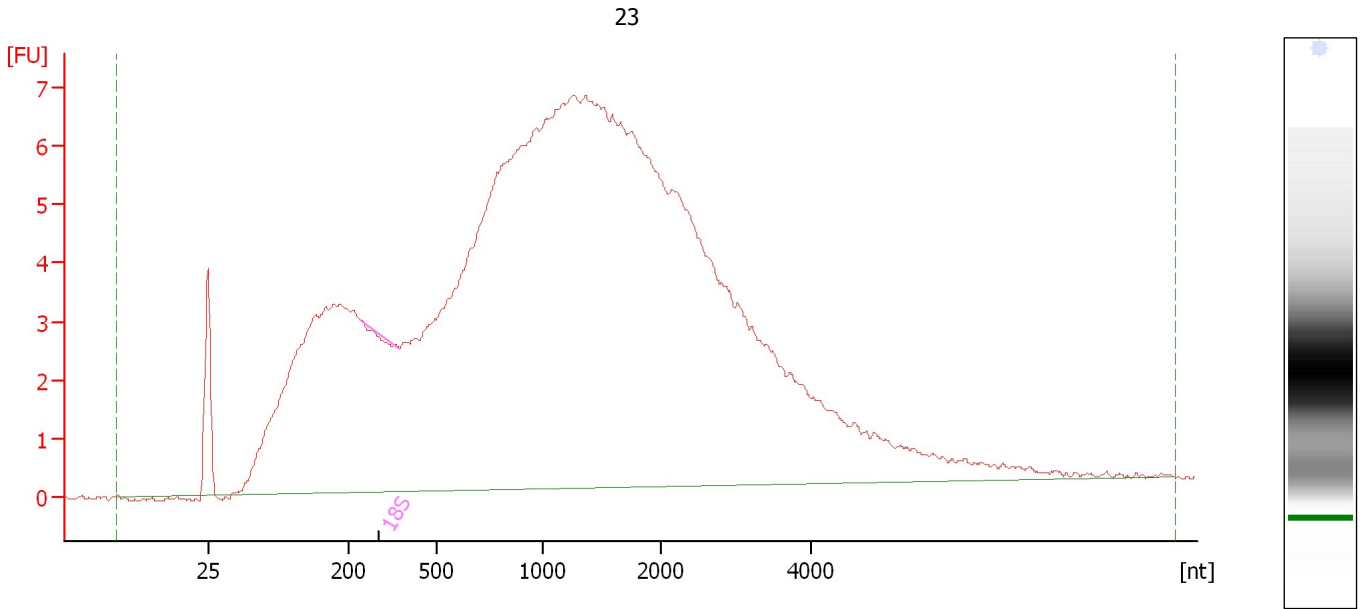
Fragment table for sample 10 : 22

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	562	1,997	30.1	10.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 23

RNA Area:	274.9	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	274 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

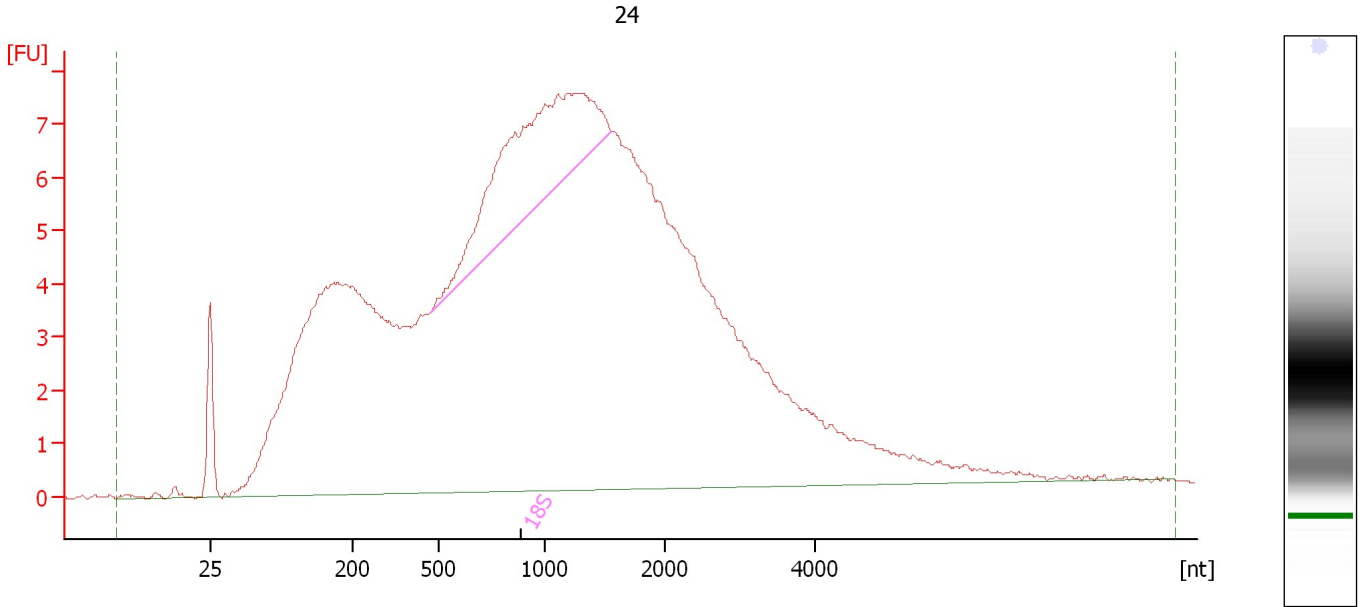
Fragment table for sample 11 : 23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	238	373	0.0	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 24

RNA Area:	306.3	RNA Integrity Number (RIN):	3.4 (B.02.08)
RNA Concentration:	306 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.40

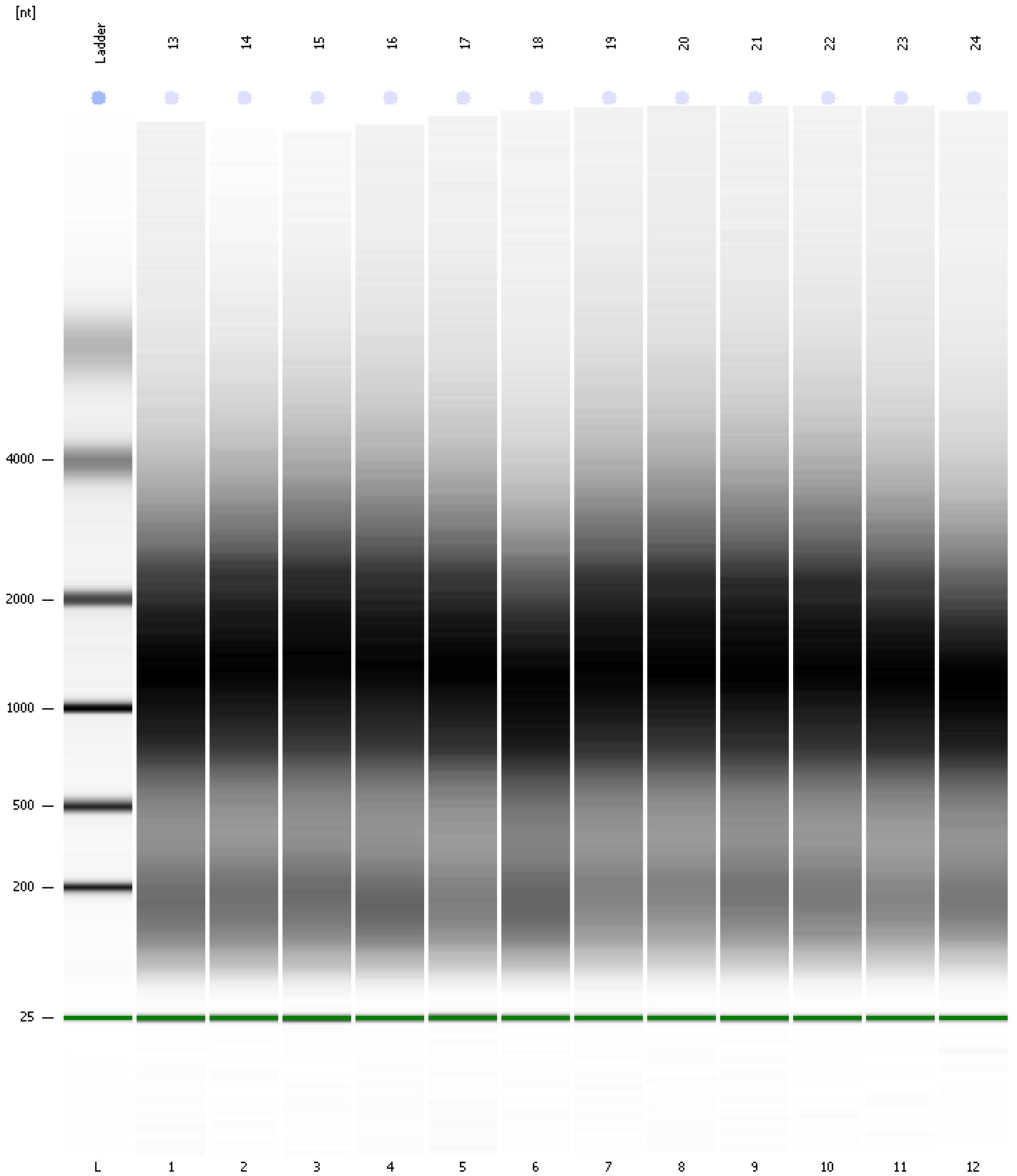
Fragment table for sample 12 : 24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	472	1,556	23.9	7.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
Modified: 12/26/2012 12:49:35 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad

Created: 12/26/2012 12:20:36 PM
 Modified: 12/26/2012 12:49:35 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		12/26/2012 12:44:22 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-12-26\2012-12-26_001.xad)		Instrument	Run		12/26/2012 12:20:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/26/2012 12:20:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/26/2012 12:20:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/26/2012 12:20:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/26/2012 12:20:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/26/2012 12:20:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/26/2012 12:20:41 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1