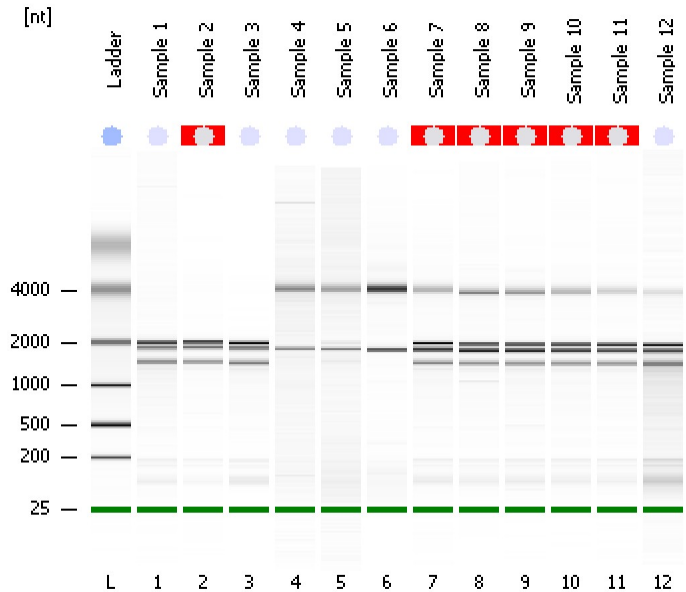


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

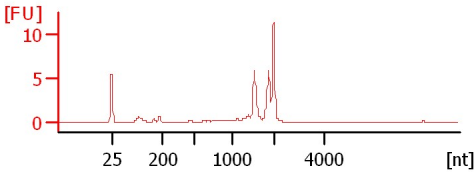
Assay Information:

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.

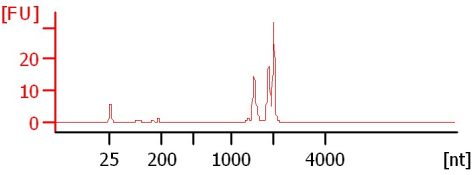
Chip Information:

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

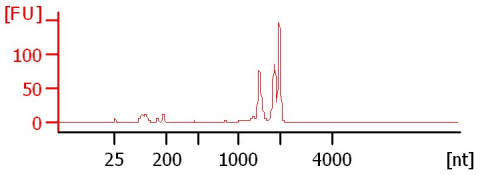
Sample 1
RIN: 5.70



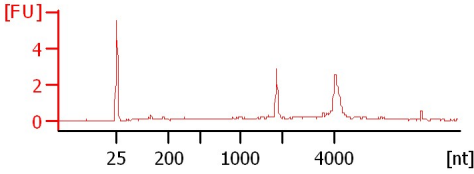
Sample 2
RIN N/A



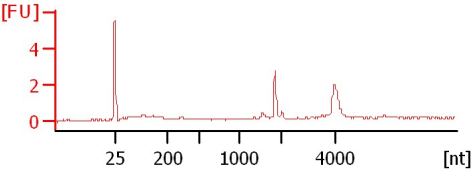
Sample 3
RIN: 5.40



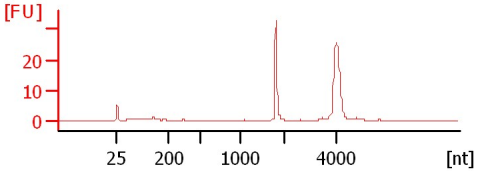
Sample 4
RIN: 8.20



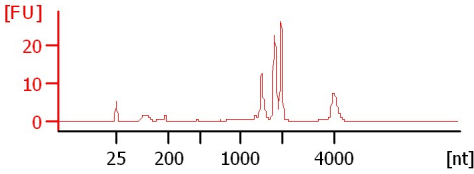
Sample 5
RIN: 9



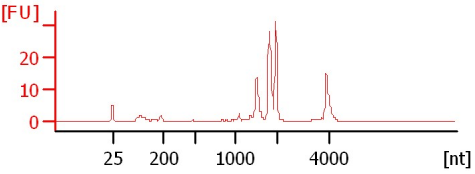
Sample 6
RIN: 9.80



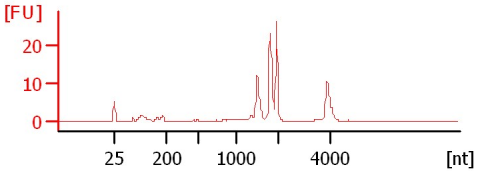
Sample 7
RIN N/A



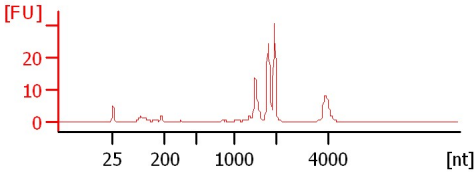
Sample 8
RIN N/A



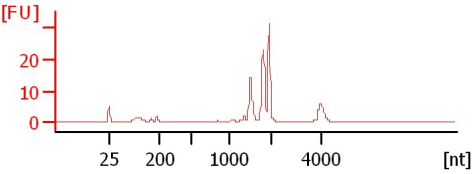
Sample 9
RIN N/A



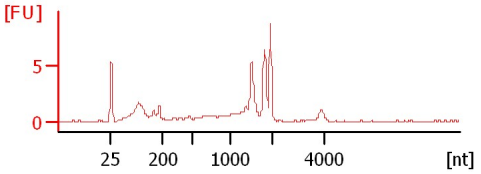
Sample 10
RIN N/A



Sample 11
RIN N/A



Sample 12
RIN: 5.50



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 5.70	
Sample 2		✓	RIN N/A	
Sample 3		✓	RIN: 5.40	
Sample 4		✓	RIN: 8.20	
Sample 5		✓	RIN:9	
Sample 6		✓	RIN: 9.80	
Sample 7		✓	RIN N/A	
Sample 8		✓	RIN N/A	
Sample 9		✓	RIN N/A	
Sample 10		✓	RIN N/A	
Sample 11		✓	RIN N/A	
Sample 12		✓	RIN: 5.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 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

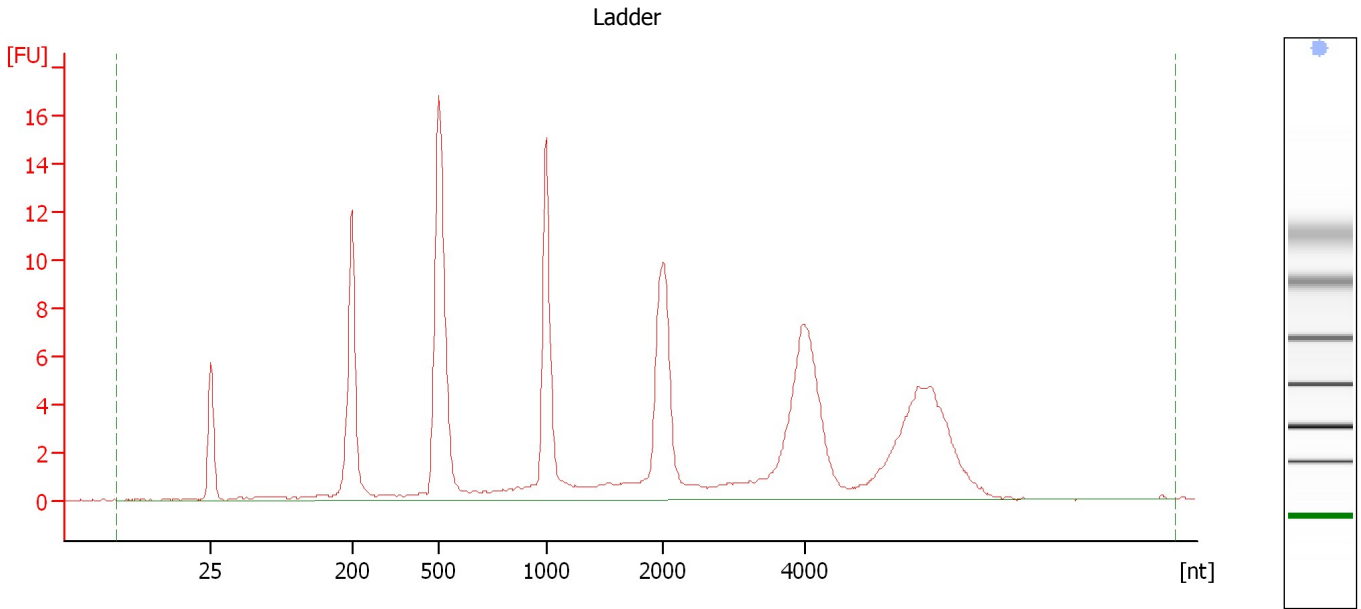
Ladder

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\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary



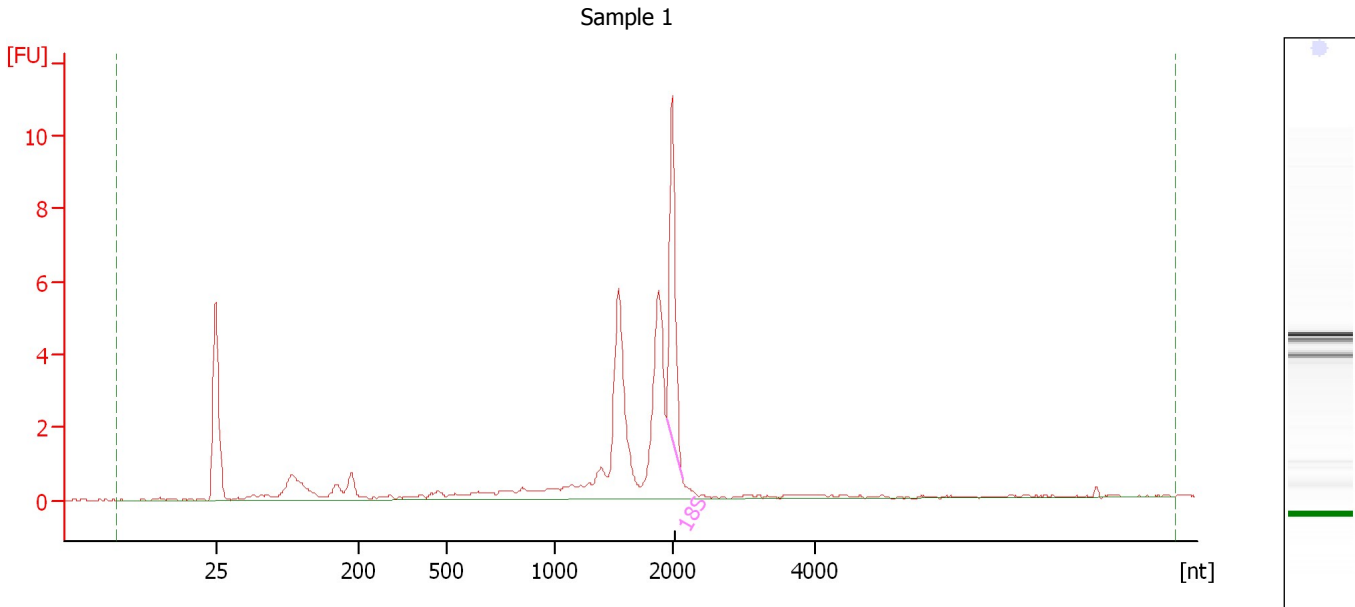
Overall Results for Ladder

RNA Area:	141.6	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\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	36.8	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	39 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.70

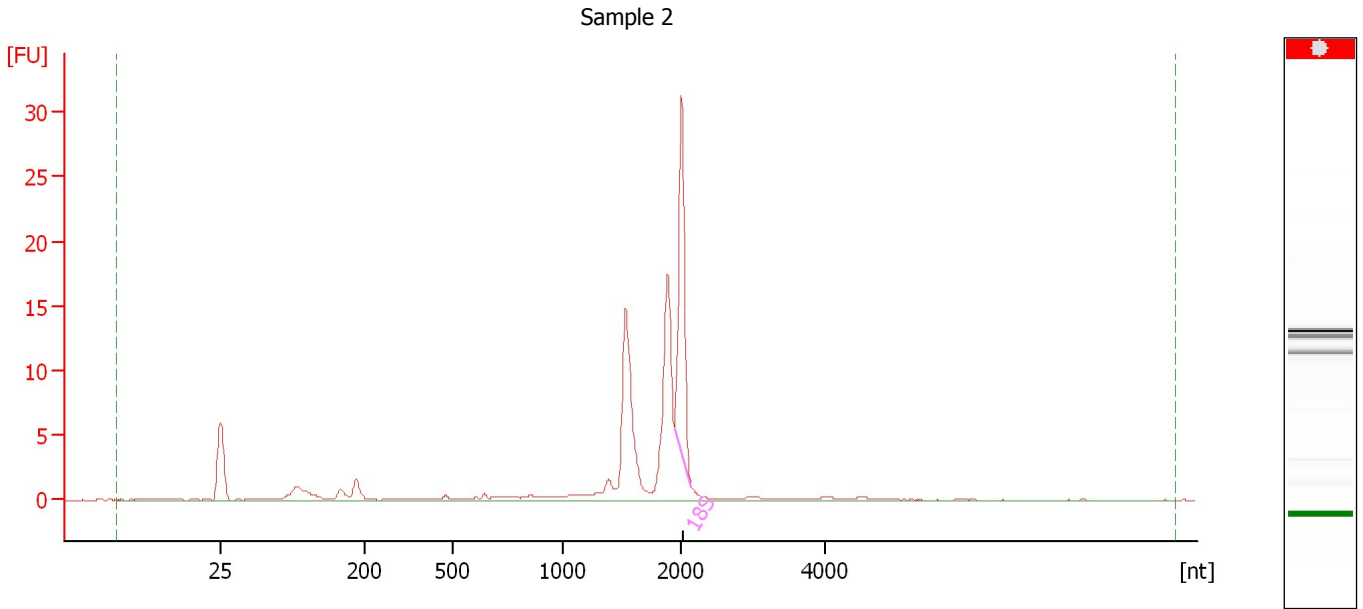
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,941	2,128	6.5	17.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	79.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	84 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

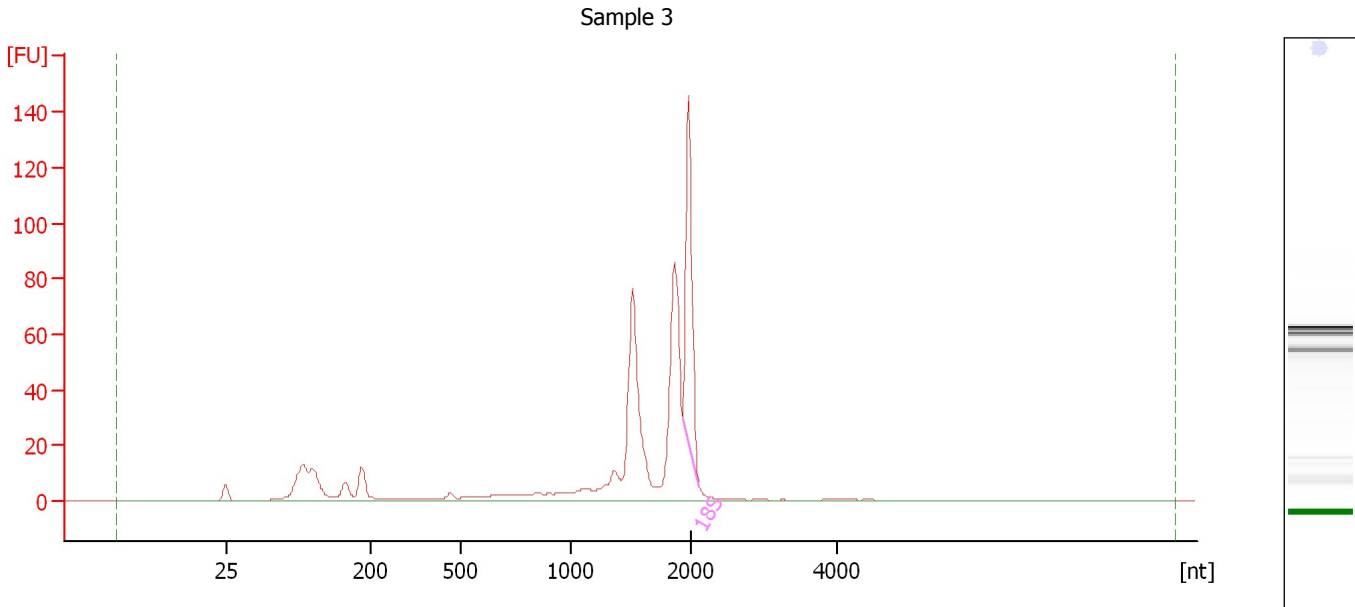
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,946	2,149	19.0	24.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	490.5	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	520 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.40

Fragment table for sample 3 : Sample 3

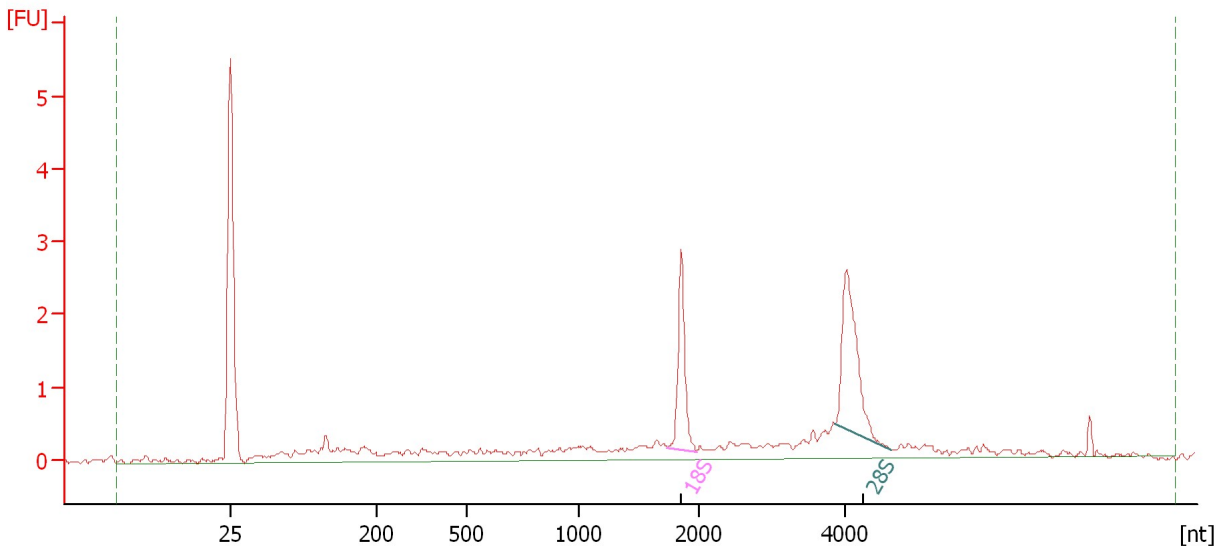
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,925	2,112	87.7	17.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

RNA Area:	19.8	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	21 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.20

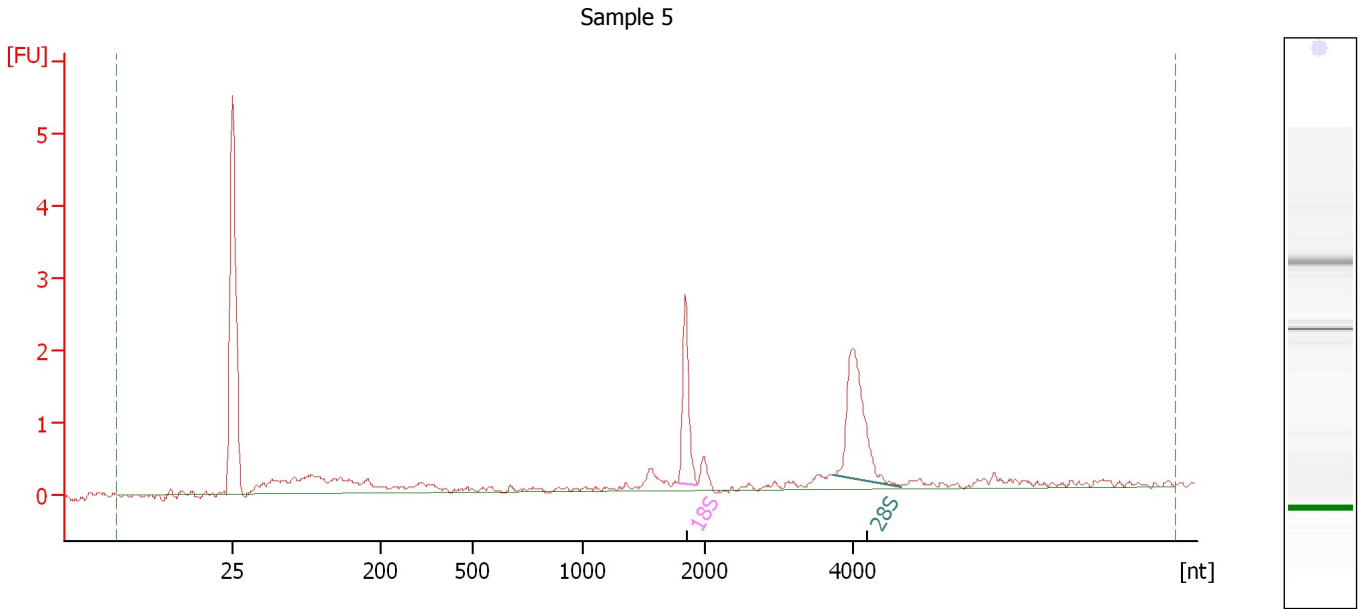
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,735	1,974	2.2	11.0
28S	3,855	4,629	3.2	16.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area: 13.5 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 14 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:9

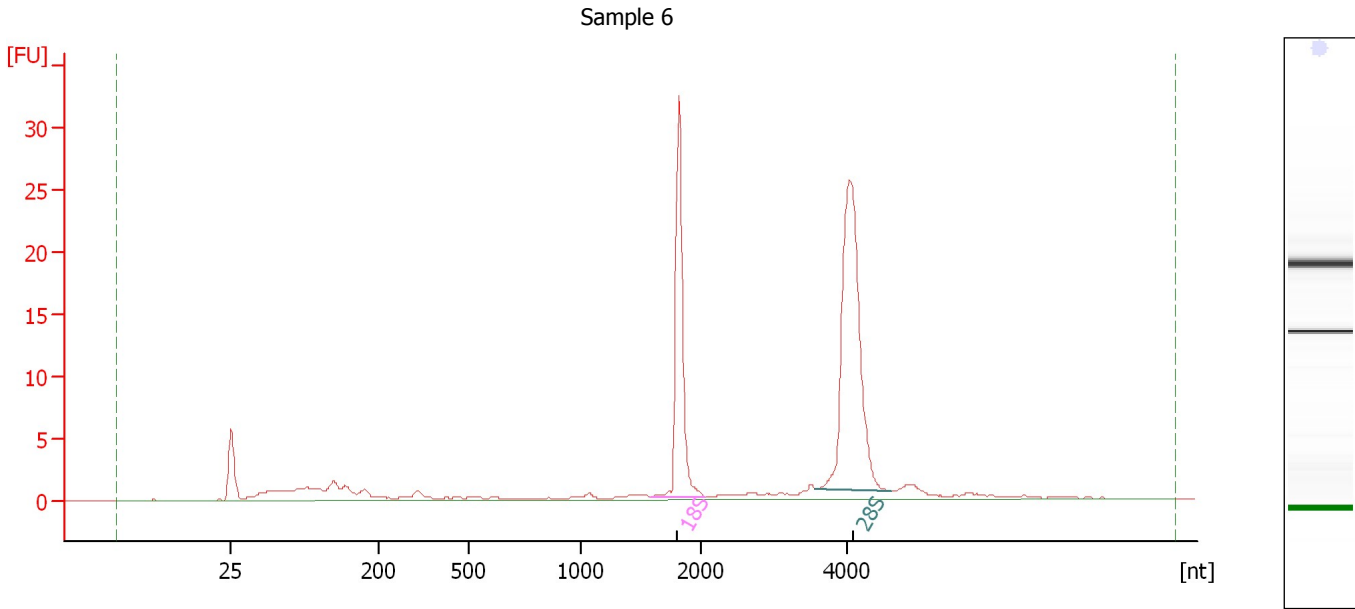
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,766	1,933	1.9	14.3
28S	3,747	4,647	3.0	22.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area: 109.1 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 116 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.80

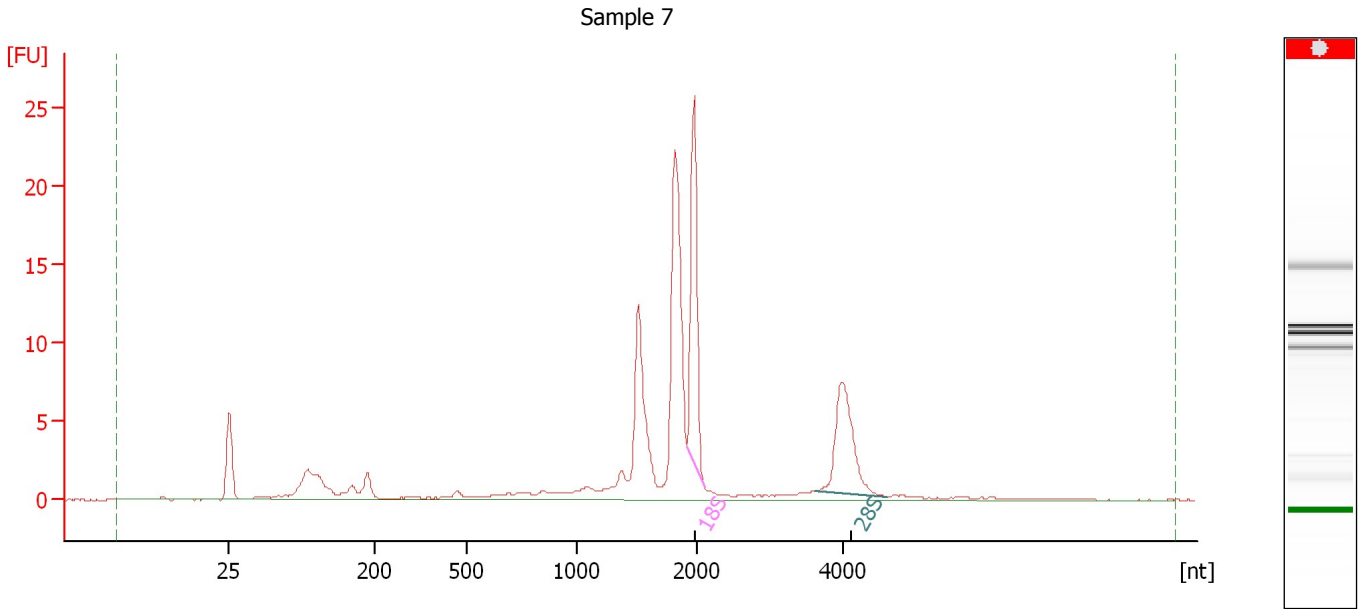
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	2,061	25.5	23.4
28S	3,561	4,582	44.3	40.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	105.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	112 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN N/A

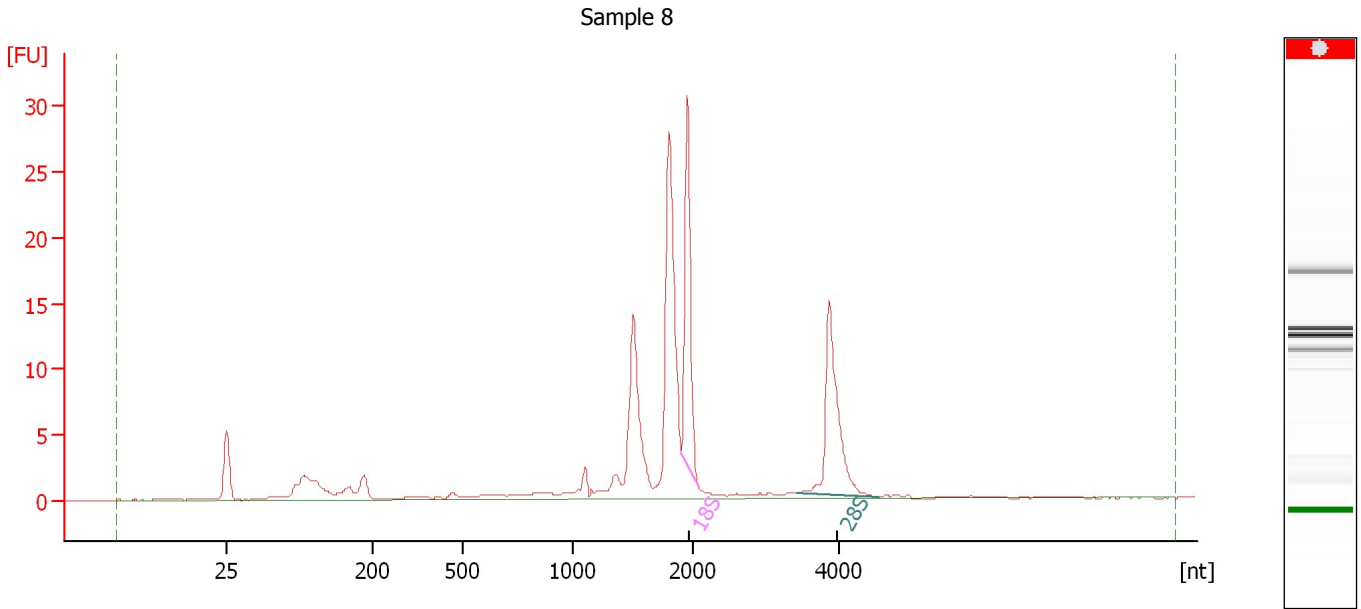
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,911	2,101	15.8	14.9
28S	3,623	4,603	12.6	11.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	123.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	130 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN N/A

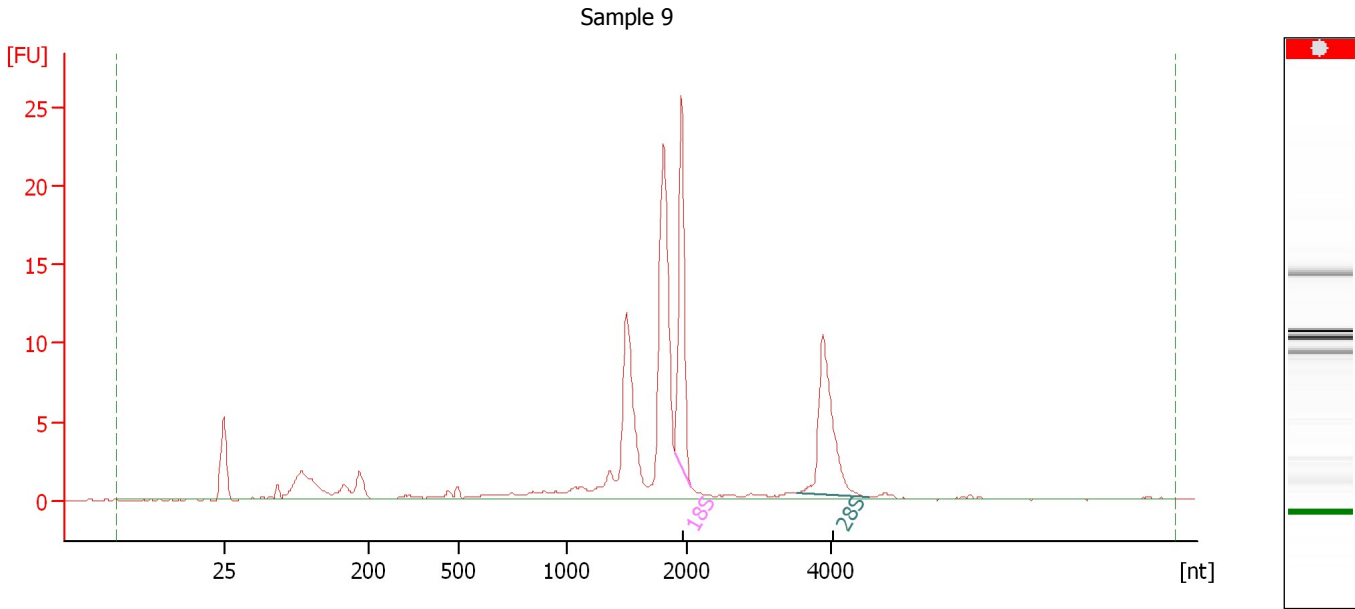
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,899	2,069	18.7	15.2
28S	3,420	4,566	18.3	14.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	105.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	111 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN N/A

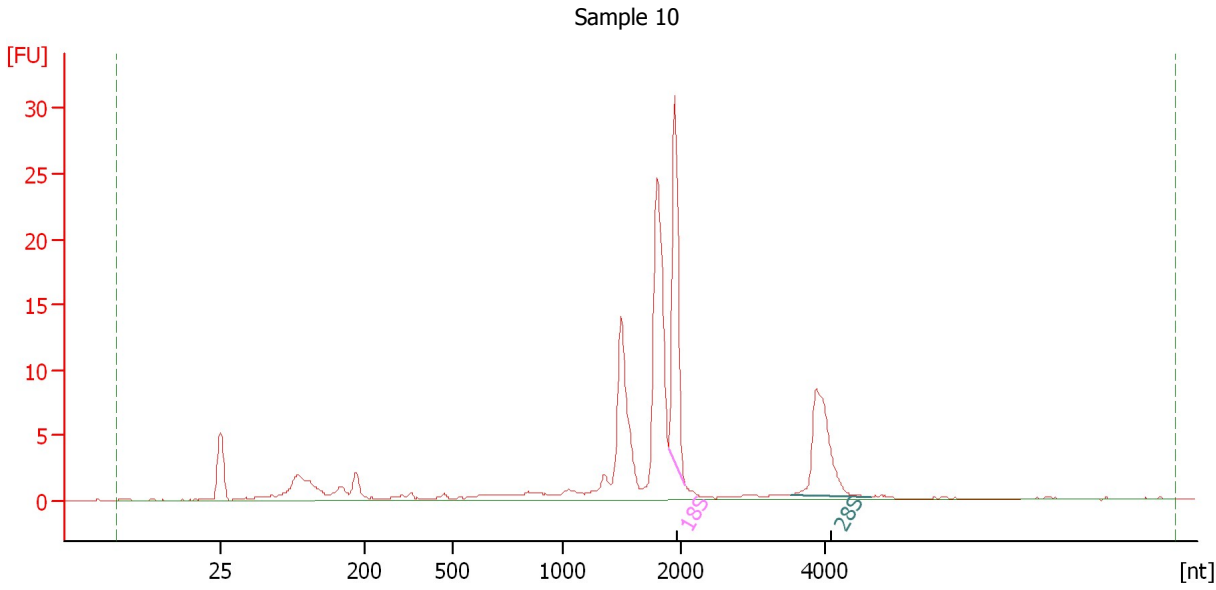
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,896	2,064	15.8	15.0
28S	3,528	4,503	14.4	13.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	117.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	124 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN N/A

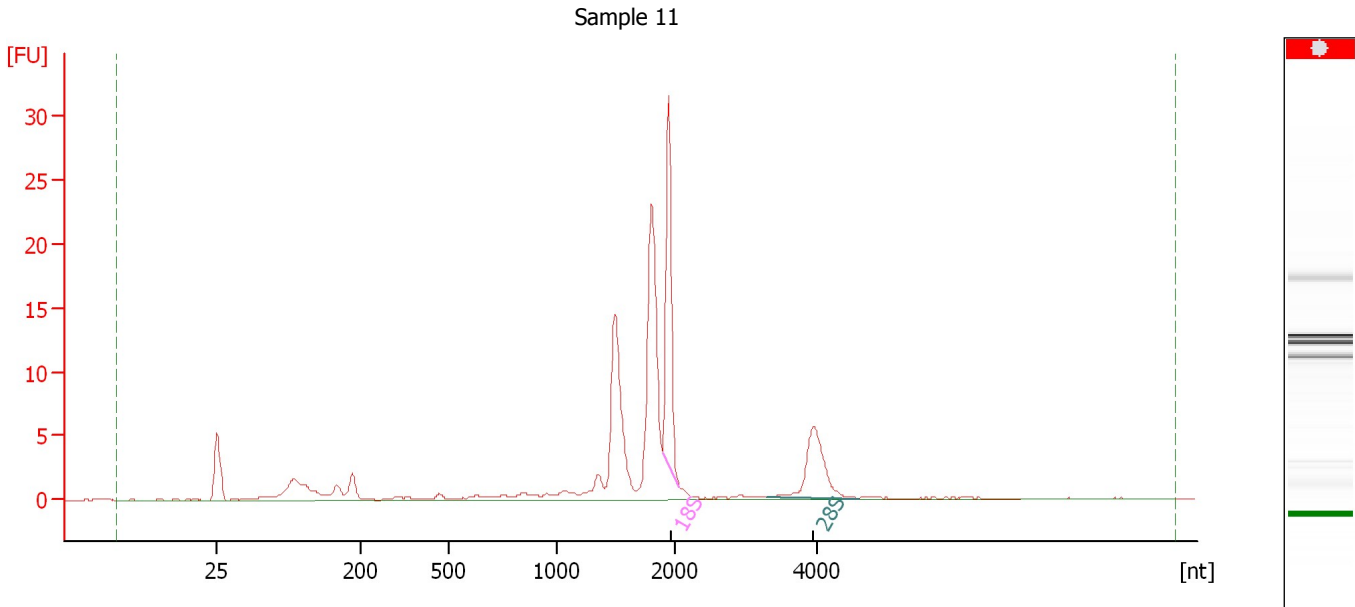
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,892	2,060	18.9	16.1
28S	3,532	4,647	14.4	12.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	106.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	113 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN N/A

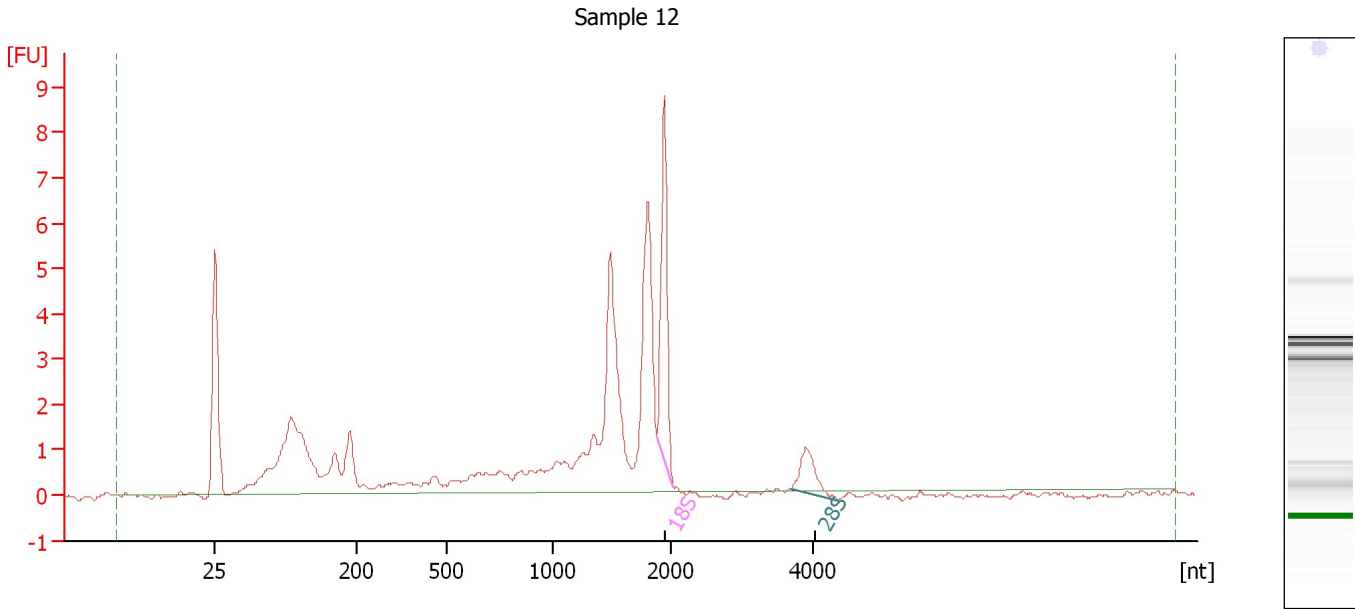
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,888	2,055	19.5	18.3
28S	3,297	4,569	10.5	9.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area:	51.3	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	54 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 5.50

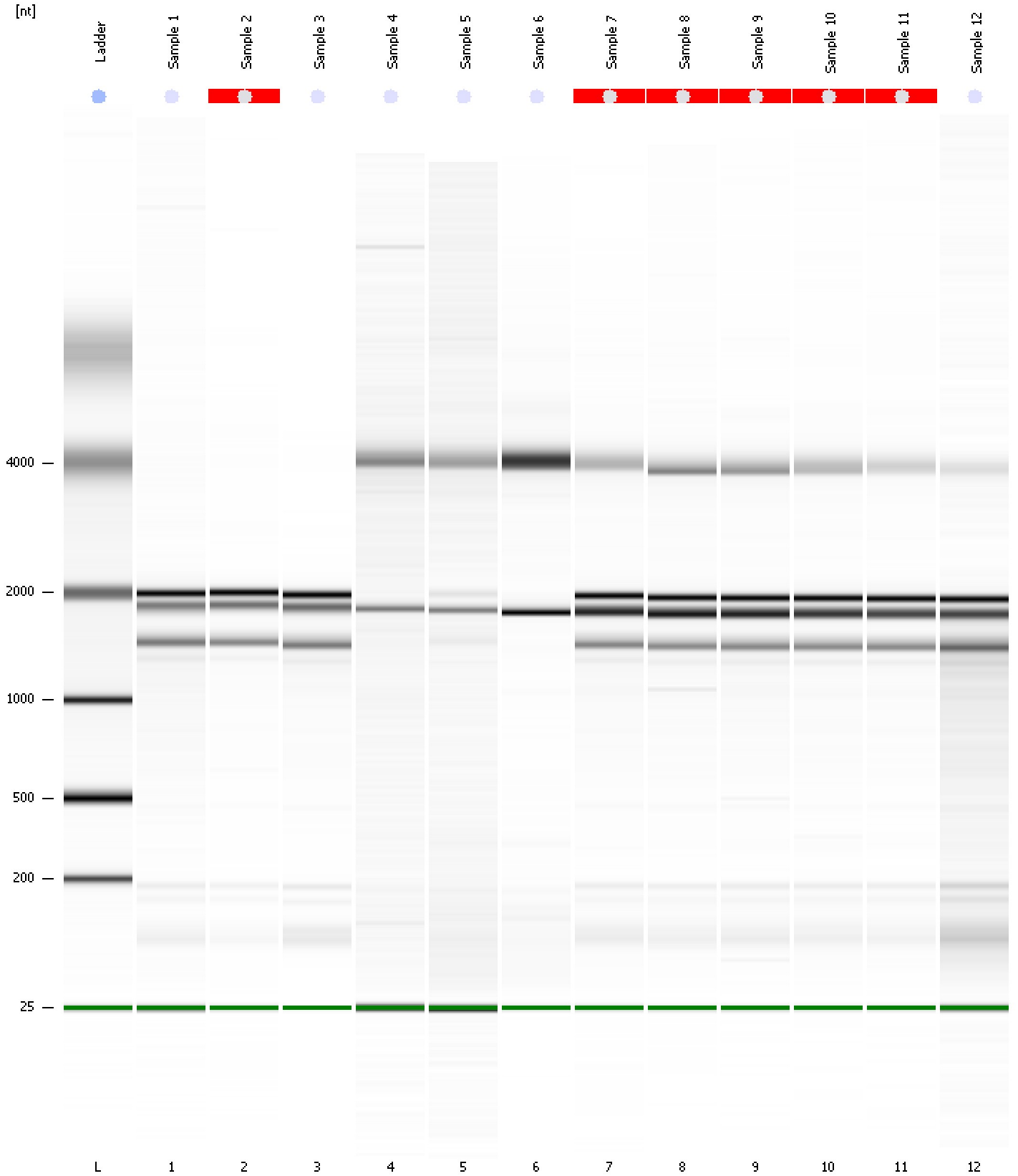
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,885	2,036	5.4	10.6
28S	3,674	4,350	1.6	3.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad

Created: 2/9/2016 4:45:25 PM
Modified: 2/9/2016 5:09:07 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 2/9/2016 4:45:25 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad Modified: 2/9/2016 5:09:07 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		2/9/2016 5:09:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-02-09\2016-02-09_003.xad)		Instrument	Run		2/9/2016 4:45:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/9/2016 4:45:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/9/2016 4:45:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/9/2016 4:45:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/9/2016 4:45:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/9/2016 4:45:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/9/2016 4:45:25 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1