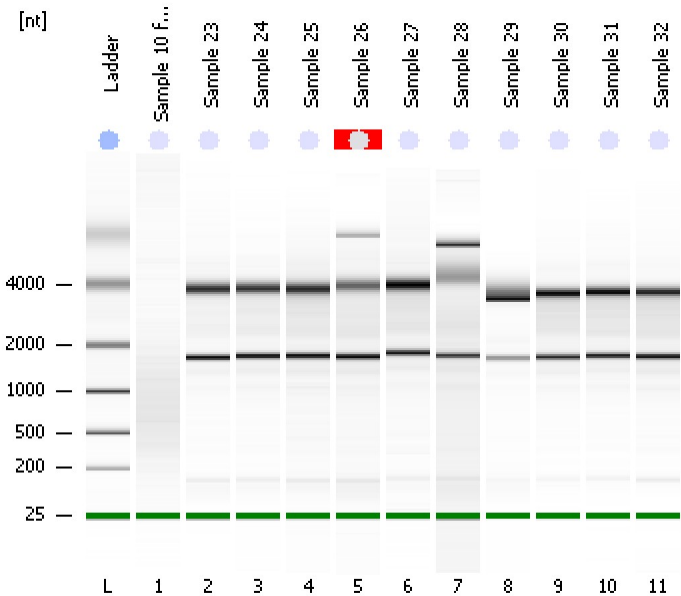


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electrophoresis File Run Summary



Instrument Information:

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

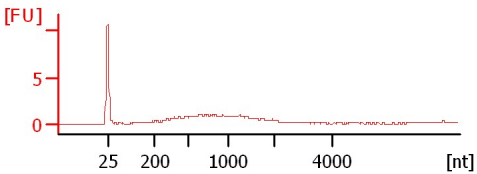
Assay Information:

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

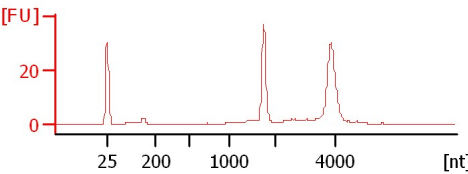
Chip Information:

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

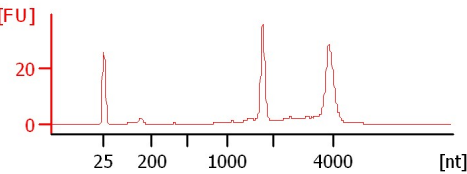
Sample 10 frag test 85C 4 min
RIN: 1.10



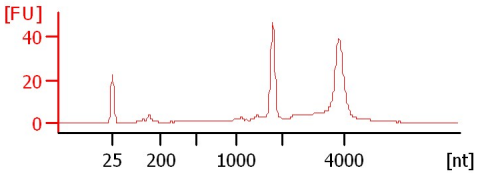
Sample 23
RIN: 9.80



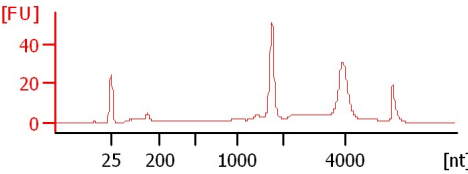
Sample 24
RIN: 9.40



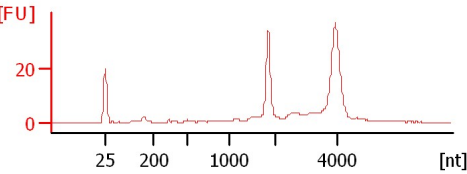
Sample 25
RIN: 9.10



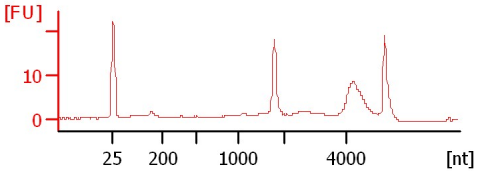
Sample 26
RIN N/A



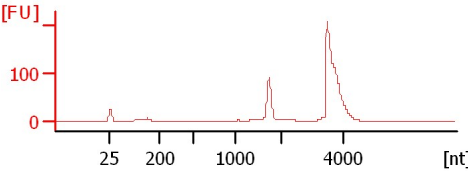
Sample 27
RIN: 9.50



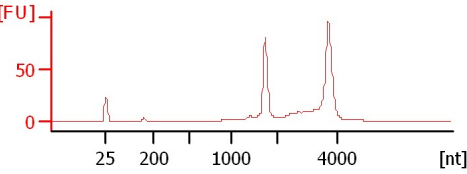
Sample 28
RIN: 6.80



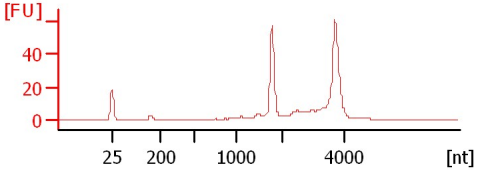
Sample 29
RIN: 9.50



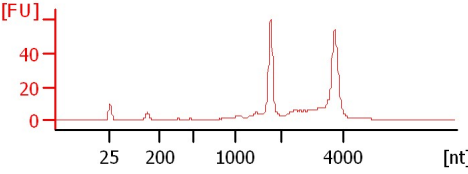
Sample 30
RIN: 9.40



Sample 31
RIN: 9.30



Sample 32
RIN: 8.90



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 10 frag test 85C 4 min		✓	RIN: 1.10	
Sample 23		✓	RIN: 9.80	
Sample 24		✓	RIN: 9.40	
Sample 25		✓	RIN: 9.10	
Sample 26		✓	RIN N/A	
Sample 27		✓	RIN: 9.50	
Sample 28		✓	RIN: 6.80	
Sample 29		✓	RIN: 9.50	
Sample 30		✓	RIN: 9.40	
Sample 31		✓	RIN: 9.30	
Sample 32		✓	RIN: 8.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

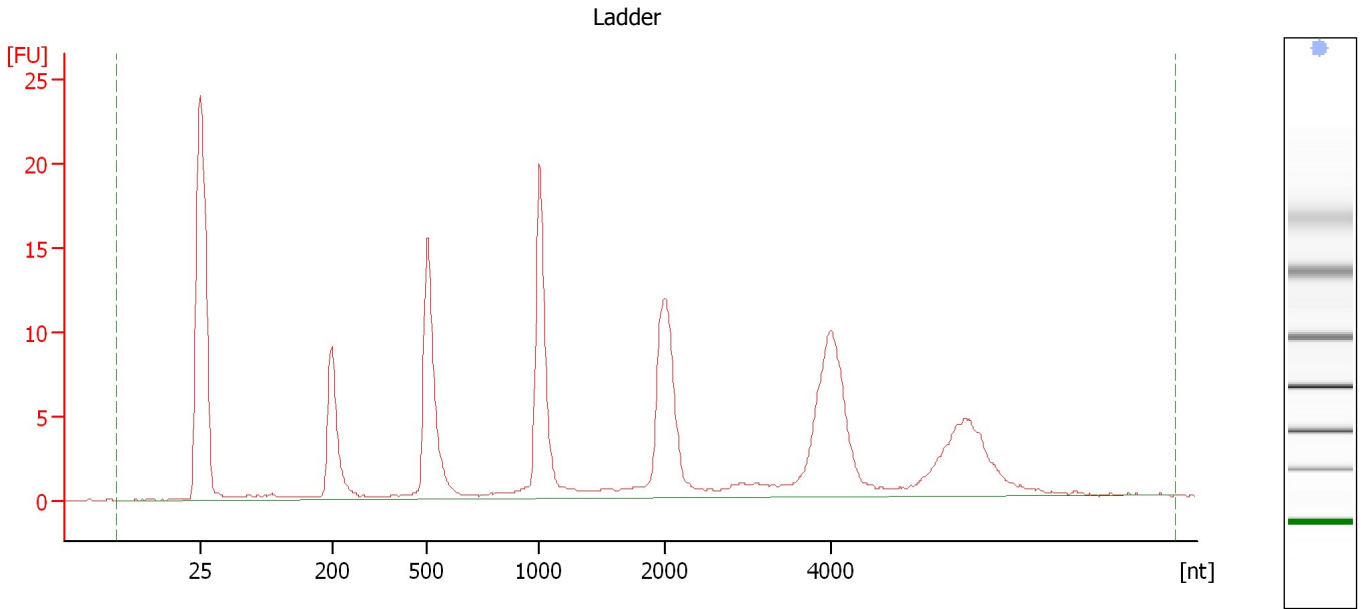
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary



Overall Results for Ladder

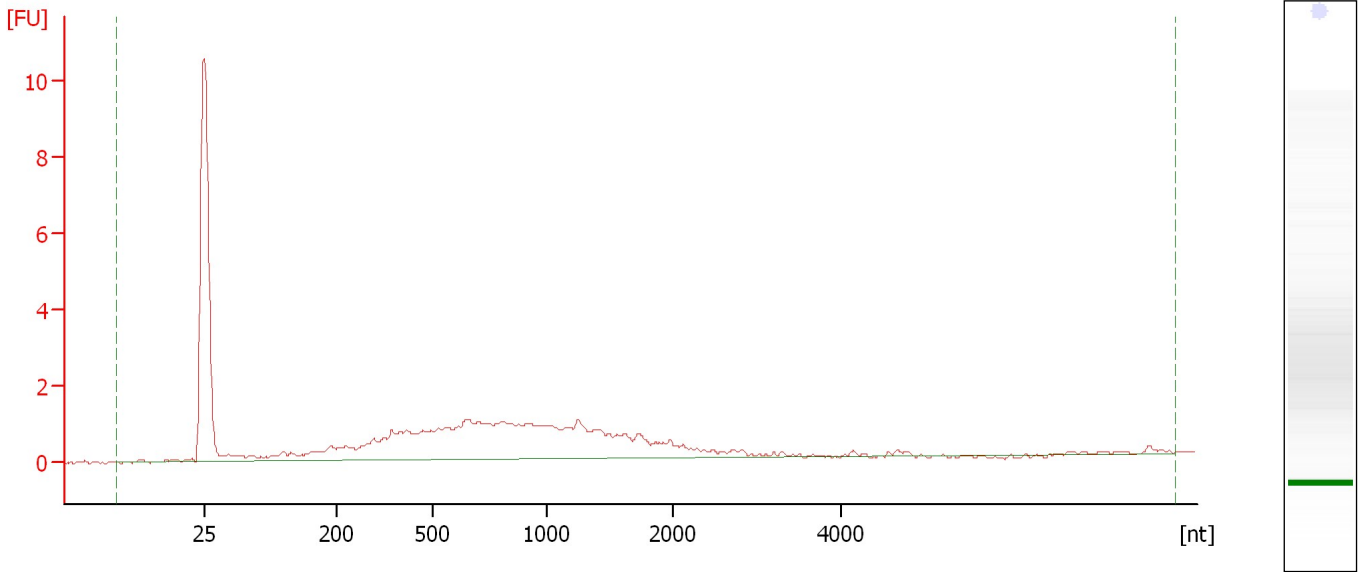
RNA Area:	165.9	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...

Sample 10 frag test 85C 4 min



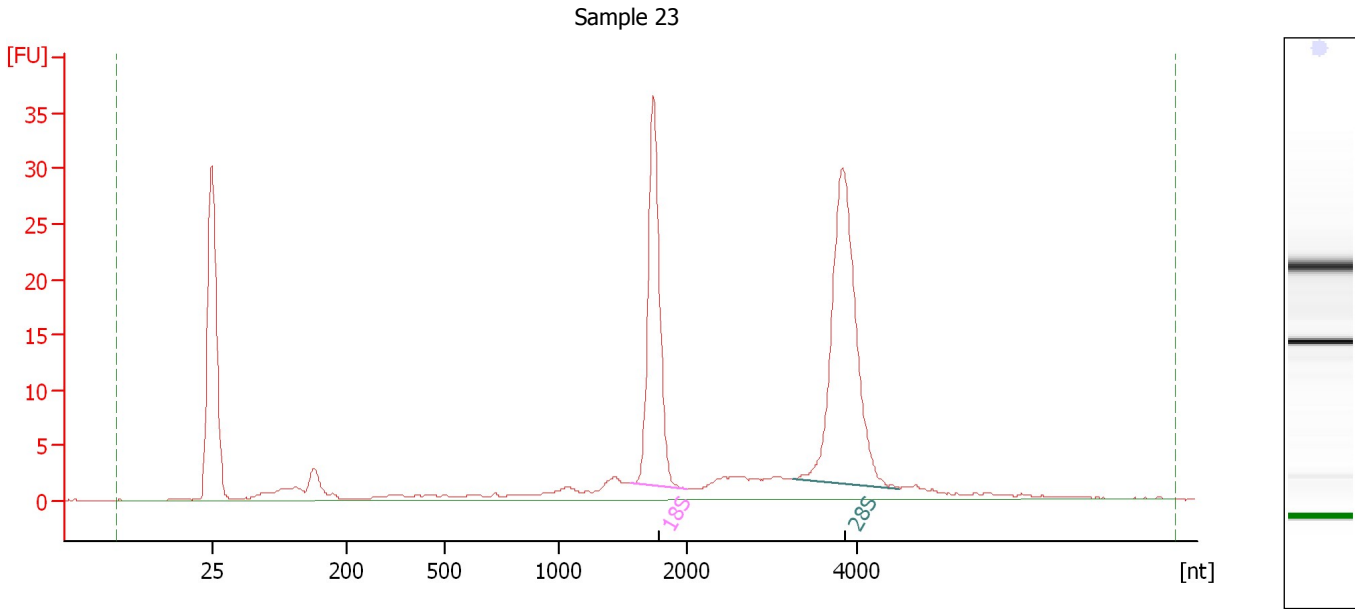
Overall Results for sample 1 : Sample 10 frag test 85C 4 min

RNA Area:	35.1	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	212 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 23

RNA Area: 199.2 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 1,201 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 9.80

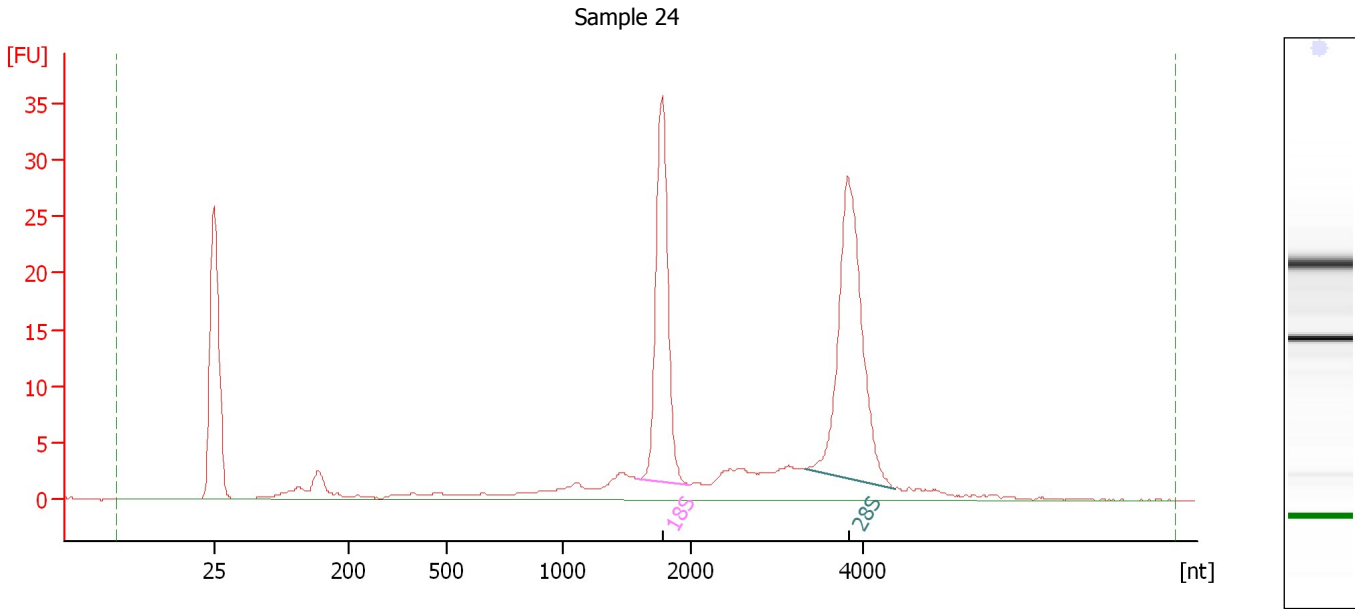
Fragment table for sample 2 : Sample 23

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,564	2,010	49.3	24.7
28S	3,250	4,490	69.1	34.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 24

RNA Area:	208.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	1,256 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 9.40

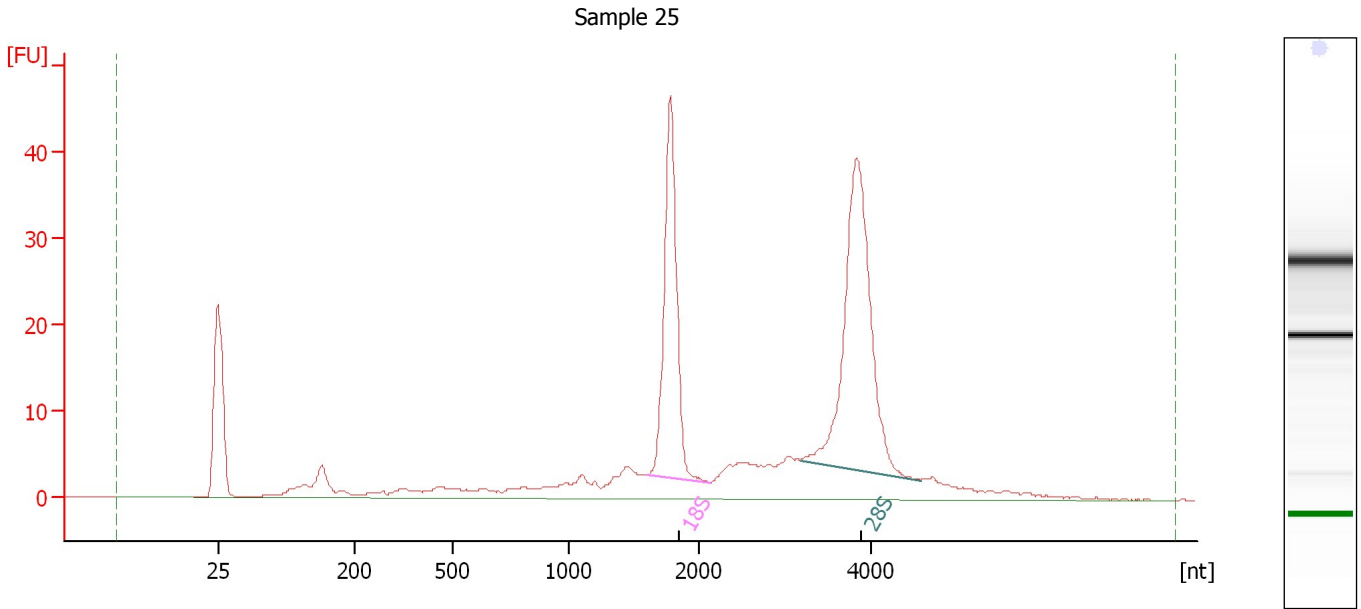
Fragment table for sample 3 : Sample 24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,991	48.9	23.5
28S	3,334	4,381	62.8	30.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 25

RNA Area:	323.1	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	1,948 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.10

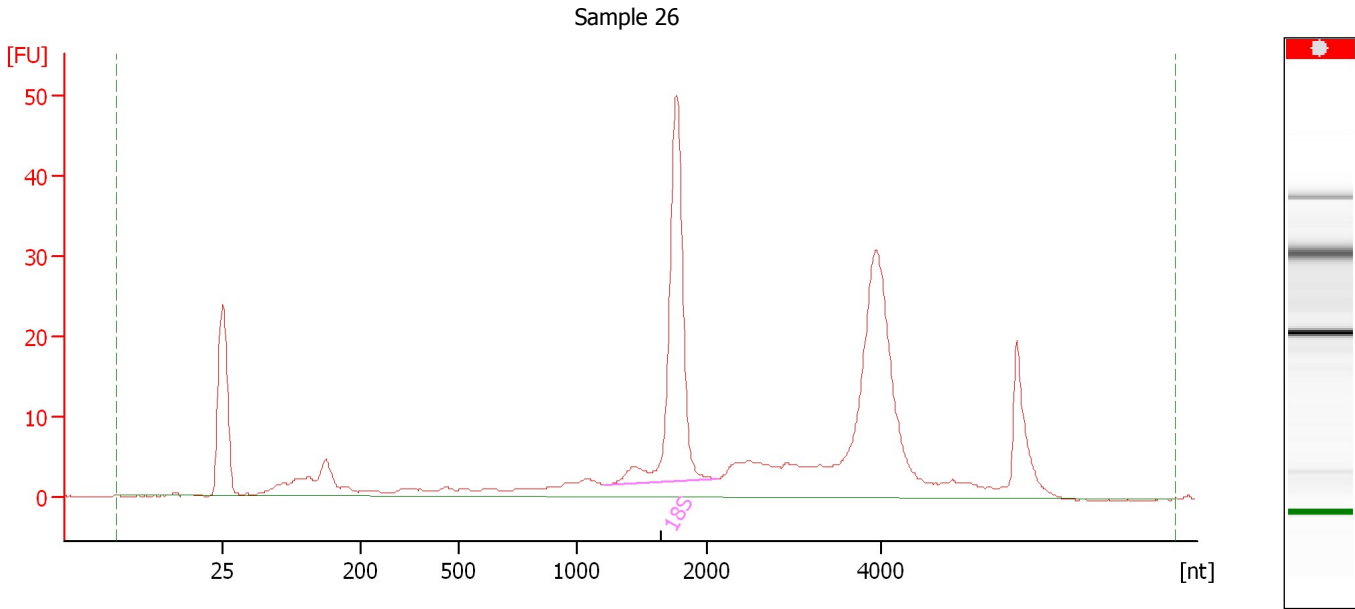
Fragment table for sample 4 : Sample 25

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,589	2,126	65.2	20.2
28S	3,178	4,563	93.1	28.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 26

RNA Area:	330.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,994 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

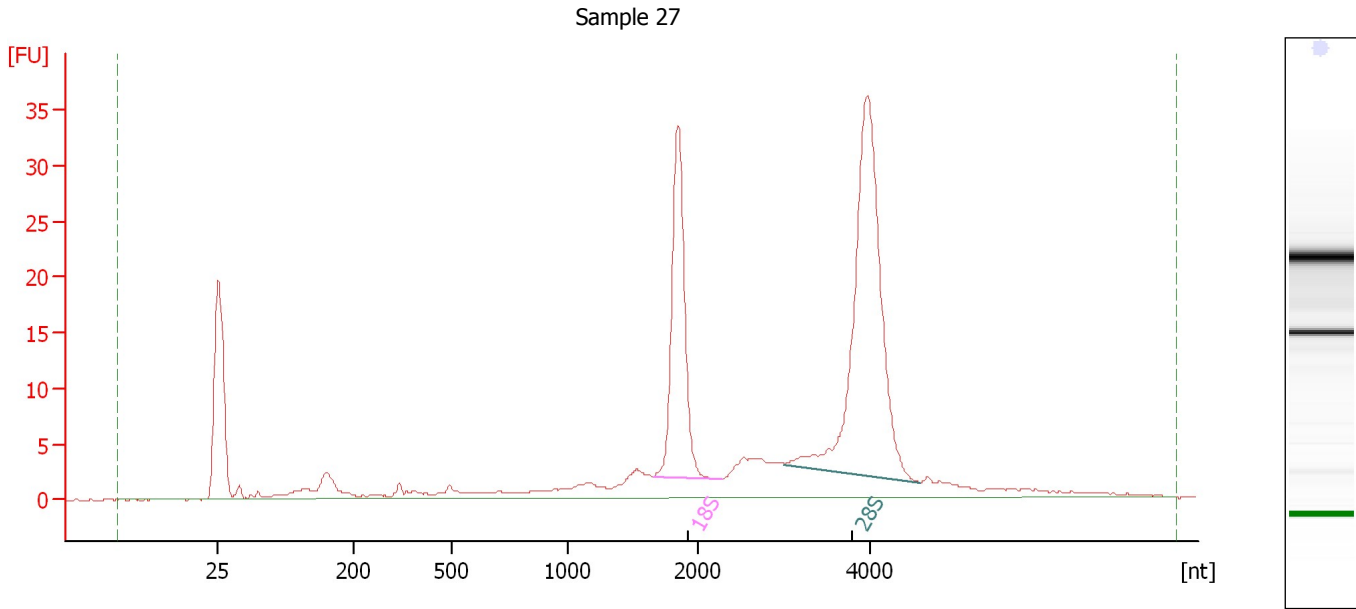
Fragment table for sample 5 : Sample 26

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,219	2,116	80.5	24.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 27

RNA Area: 250.4 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 1,510 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.50

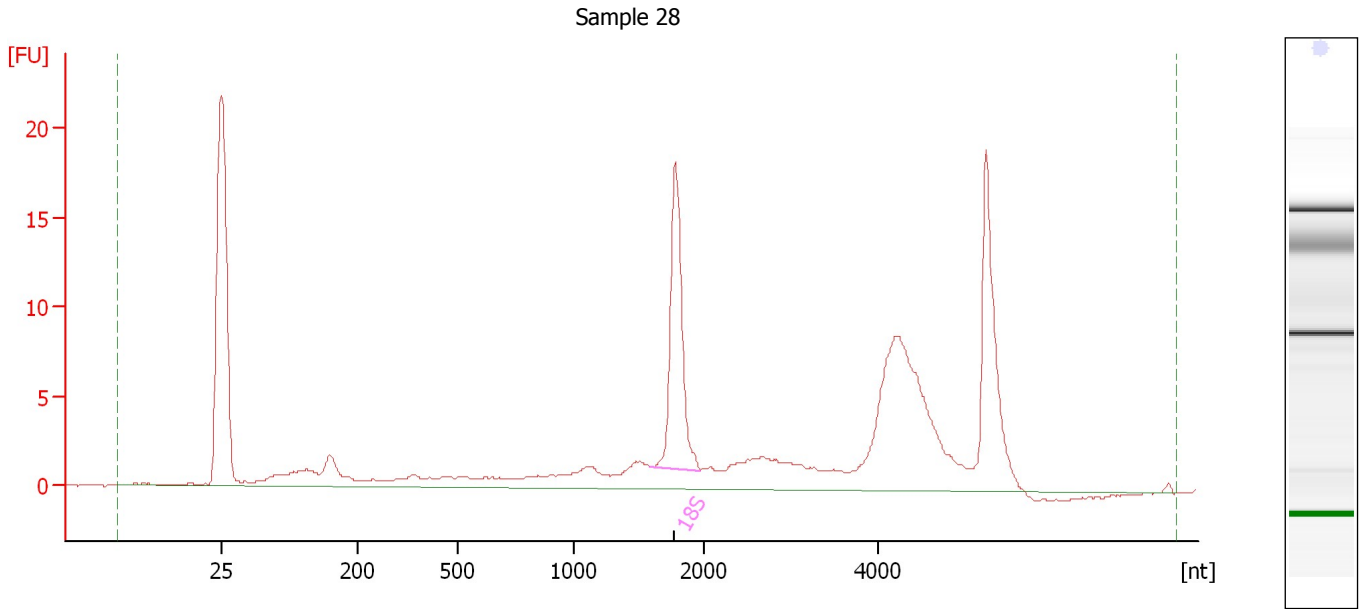
Fragment table for sample 6 : Sample 27

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	2,274	47.1	18.8
28S	3,006	4,568	89.8	35.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 28

RNA Area:	151.9	RNA Integrity Number (RIN):	6.8 (B.02.08)
RNA Concentration:	916 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.80

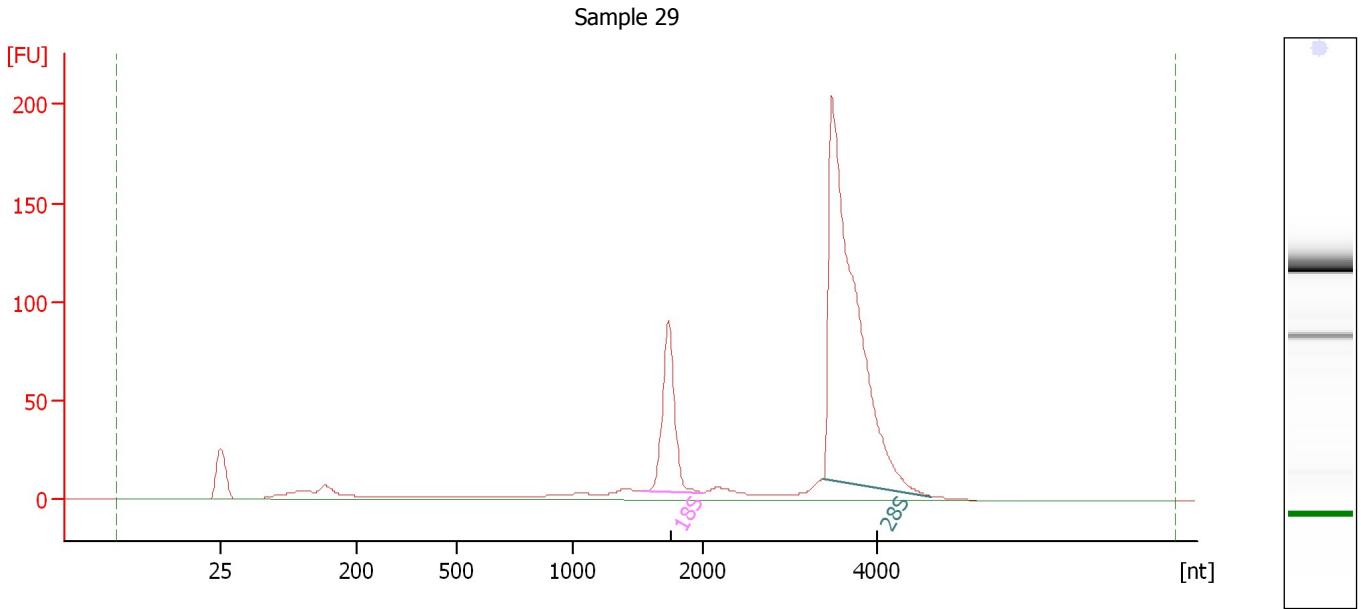
Fragment table for sample 7 : Sample 28

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,970	23.0	15.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 29

RNA Area: 888.4 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 5,356 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 4.0 Result Flagging Label: RIN: 9.50

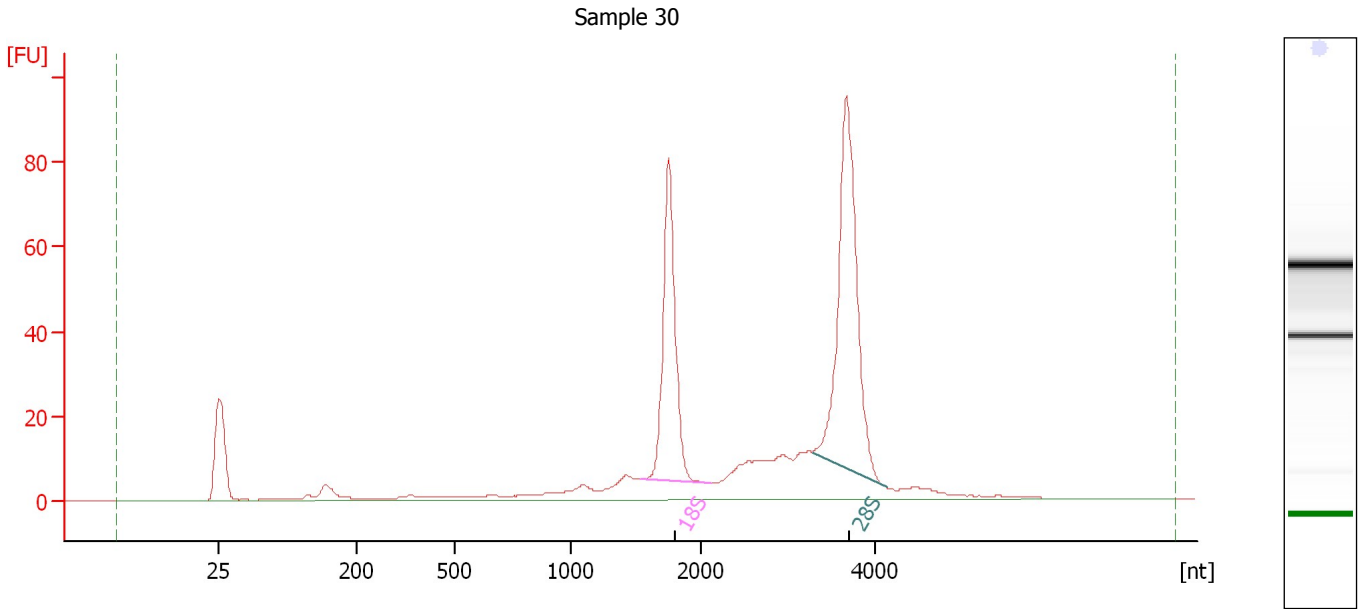
Fragment table for sample 8 : Sample 29

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,518	2,004	125.4	14.1
28S	3,384	4,628	505.4	56.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 30

RNA Area:	525.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	3,167 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.40

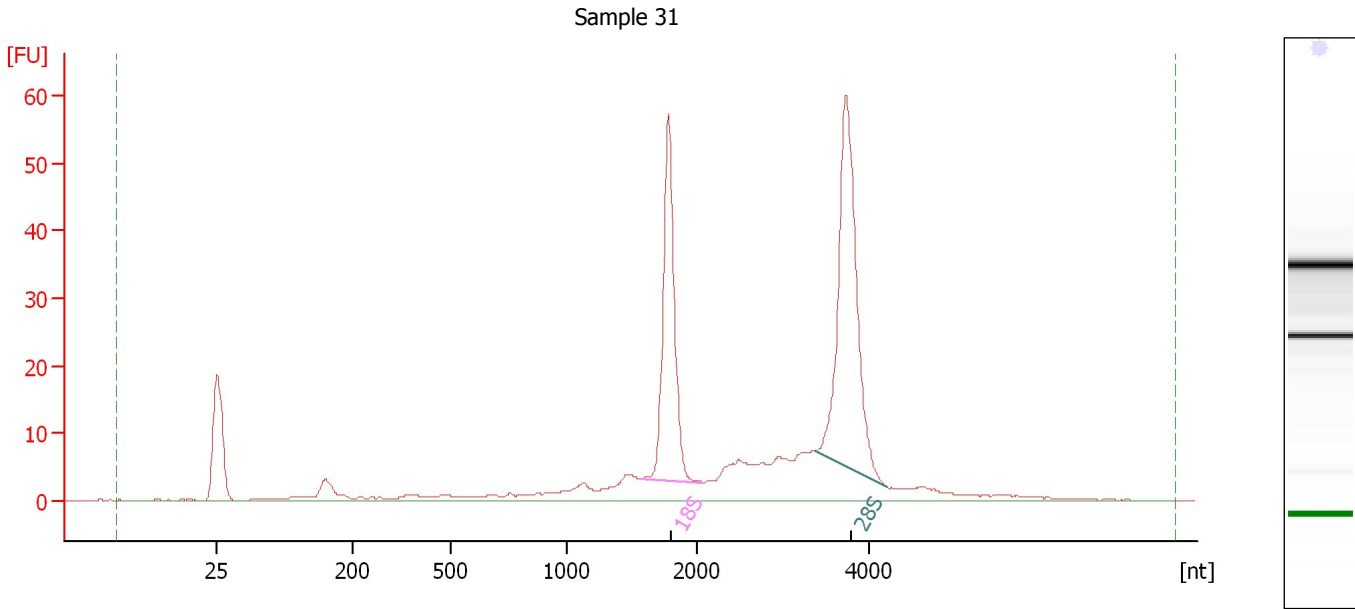
Fragment table for sample 9 : Sample 30

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,533	2,102	109.7	20.9
28S	3,287	4,139	163.1	31.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 31

RNA Area:	345.1	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	2,081 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.30

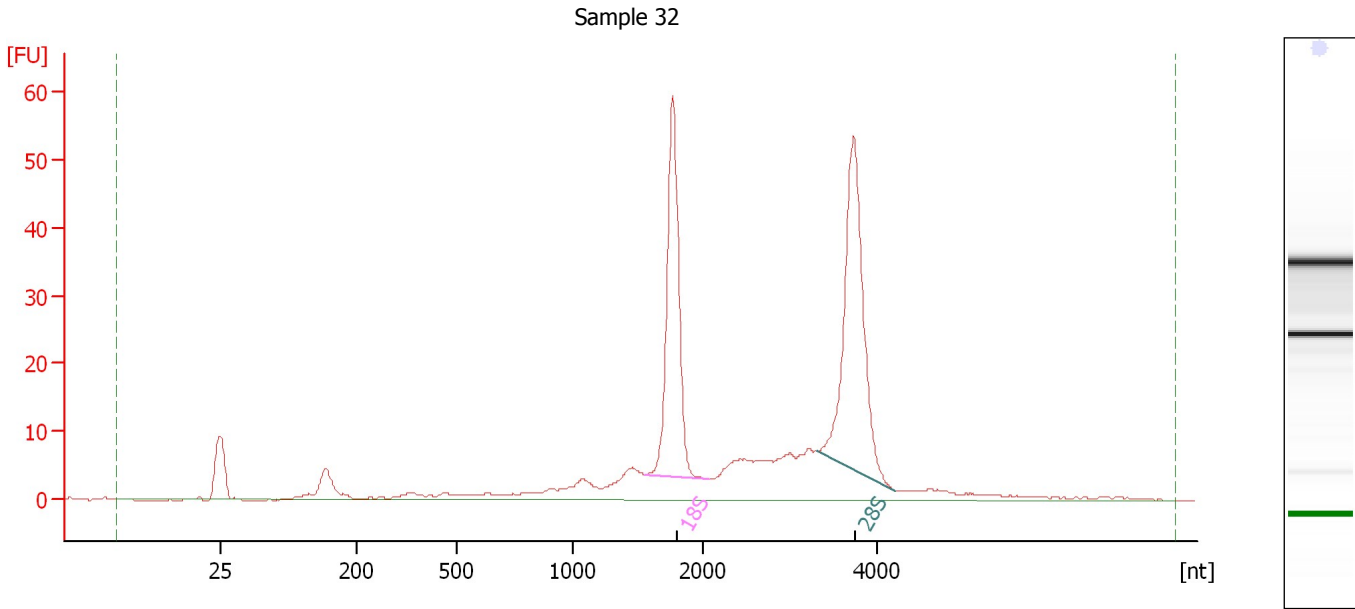
Fragment table for sample 10 : Sample 31

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,563	2,076	72.5	21.0
28S	3,365	4,208	100.9	29.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 32

RNA Area: 351.3 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 2,118 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.90

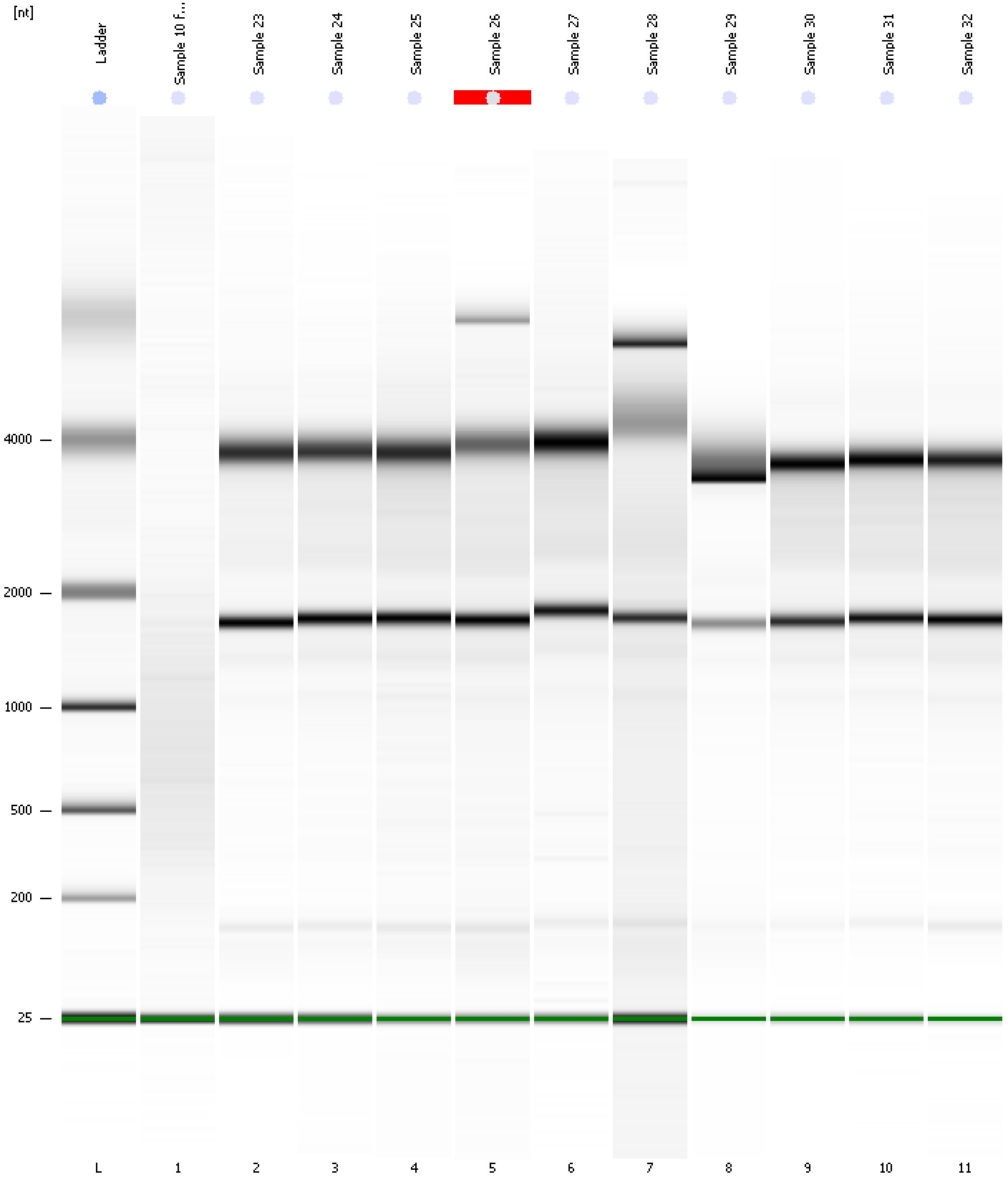
Fragment table for sample 11 : Sample 32

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,551	2,066	78.2	22.3
28S	3,322	4,210	91.5	26.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
Modified: 11/30/2015 4:31:13 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad

Created: 11/30/2015 4:08:17 PM
 Modified: 11/30/2015 4:31:13 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/30/2015 4:31:12 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-30\2015-11-30_004.xad)		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/30/2015 4:08:23 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1