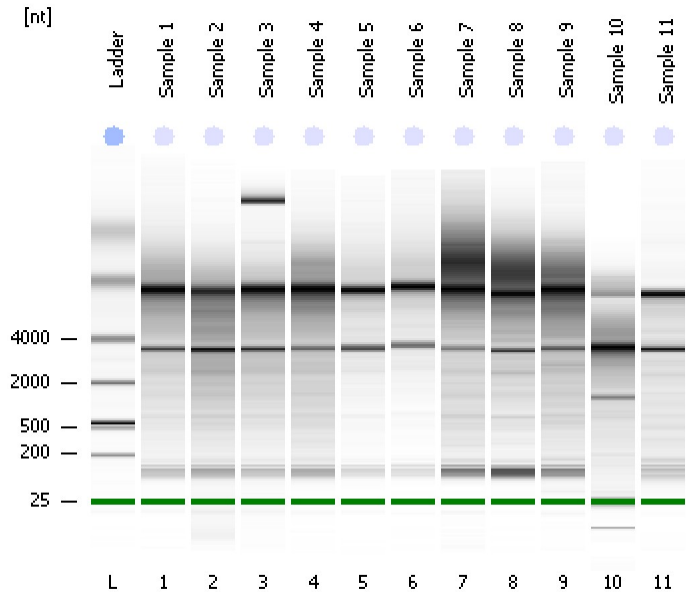


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electrophoresis File Run Summary



Instrument Information:

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

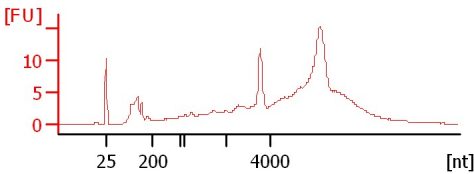
Assay Information:

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.

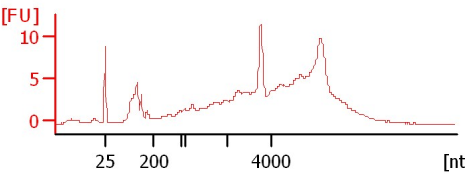
Chip Information:

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

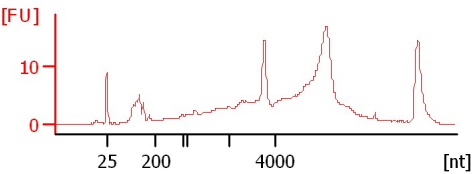
Sample 1
RIN: 7.40



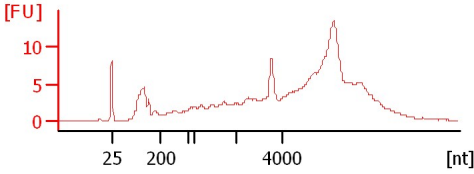
Sample 2
RIN: 5.20



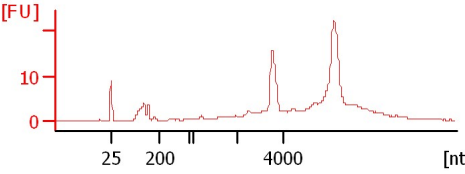
Sample 3
RIN: 7.90



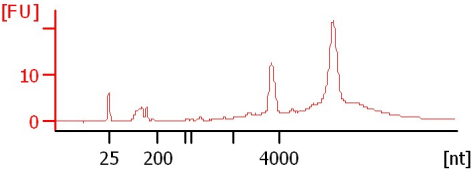
Sample 4
RIN: 5.90



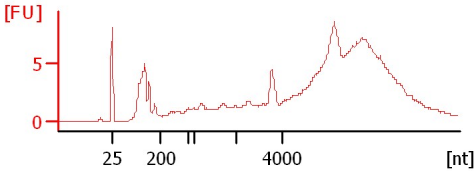
Sample 5
RIN: 8.50



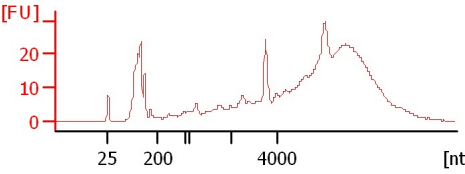
Sample 6
RIN: 9



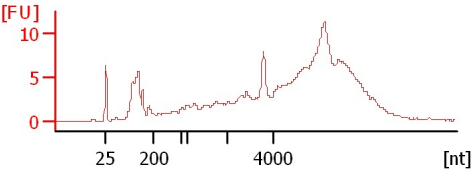
Sample 7
RIN: 4



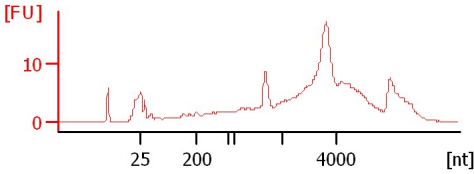
Sample 8
RIN: 3.80



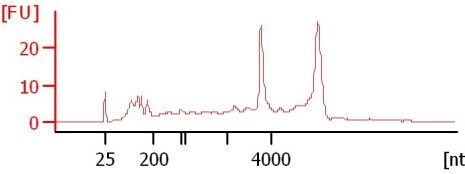
Sample 9
RIN: 4.60



Sample 10
RIN: 6.70



Sample 11
RIN: 7.10



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
 Modified: 8/16/2016 11:59:34 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 7.40	
Sample 2		✓	RIN: 5.20	
Sample 3		✓	RIN: 7.90	
Sample 4		✓	RIN: 5.90	
Sample 5		✓	RIN: 8.50	
Sample 6		✓	RIN:9	
Sample 7		✓	RIN:4	
Sample 8		✓	RIN: 3.80	
Sample 9		✓	RIN: 4.60	
Sample 10		✓	RIN: 6.70	
Sample 11		✓	RIN: 7.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

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

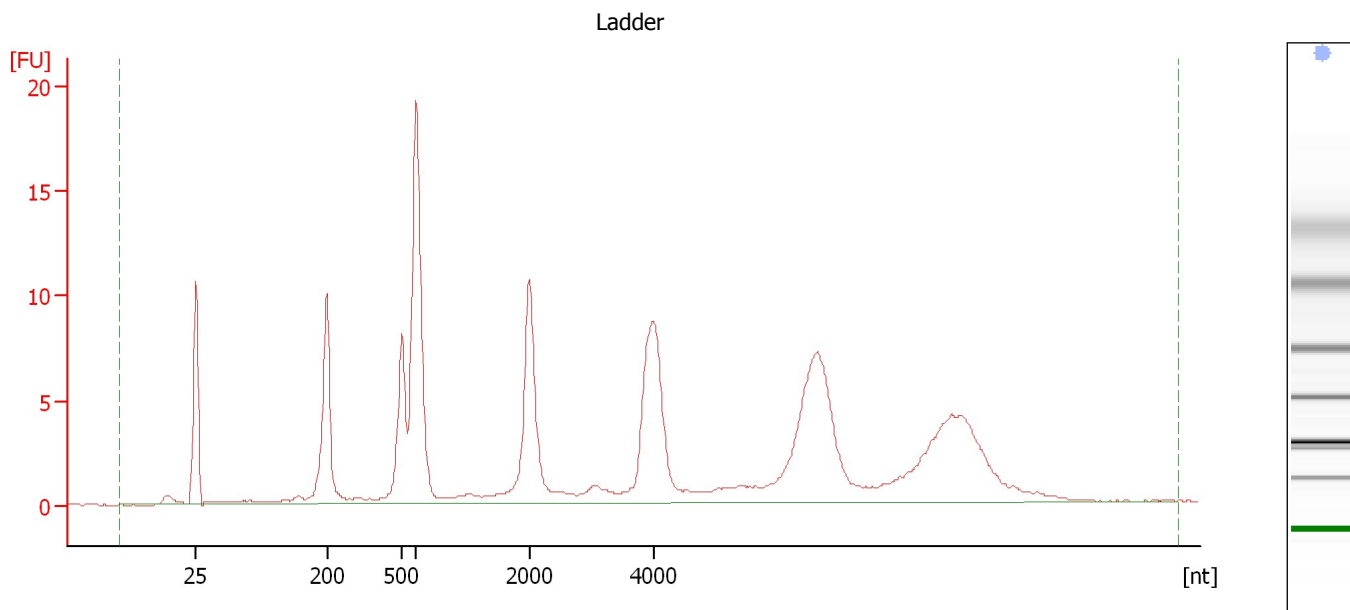
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary



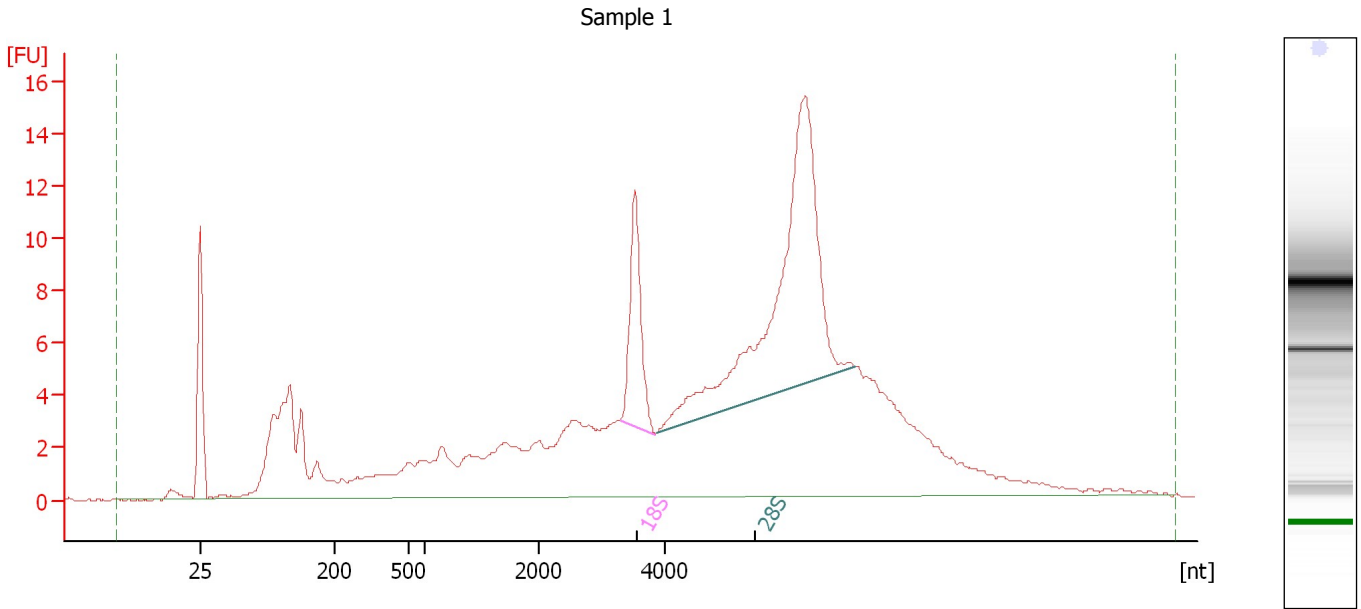
Overall Results for Ladder

RNA Area:	166.4	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	260.0	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	1,563 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.0	Result Flagging Label:	RIN: 7.40

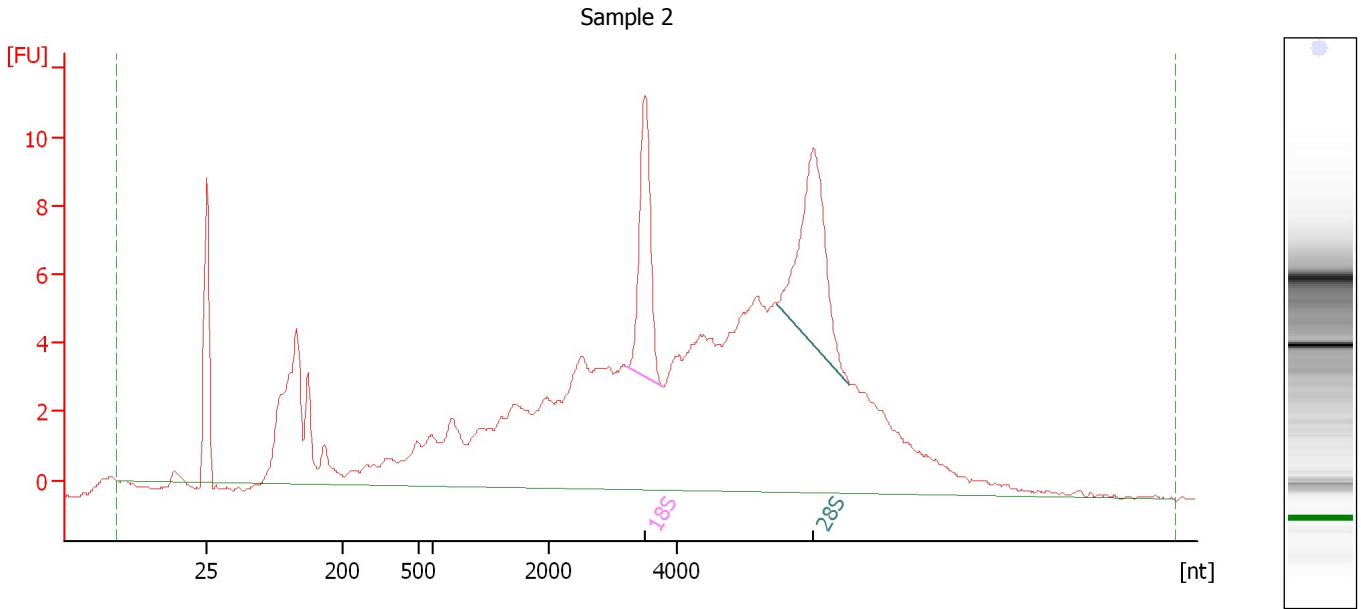
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,295	3,855	12.2	4.7
28S	3,889	7,031	48.1	18.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	223.1	RNA Integrity Number (RIN):	5.2 (B.02.08)
RNA Concentration:	1,340 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 5.20

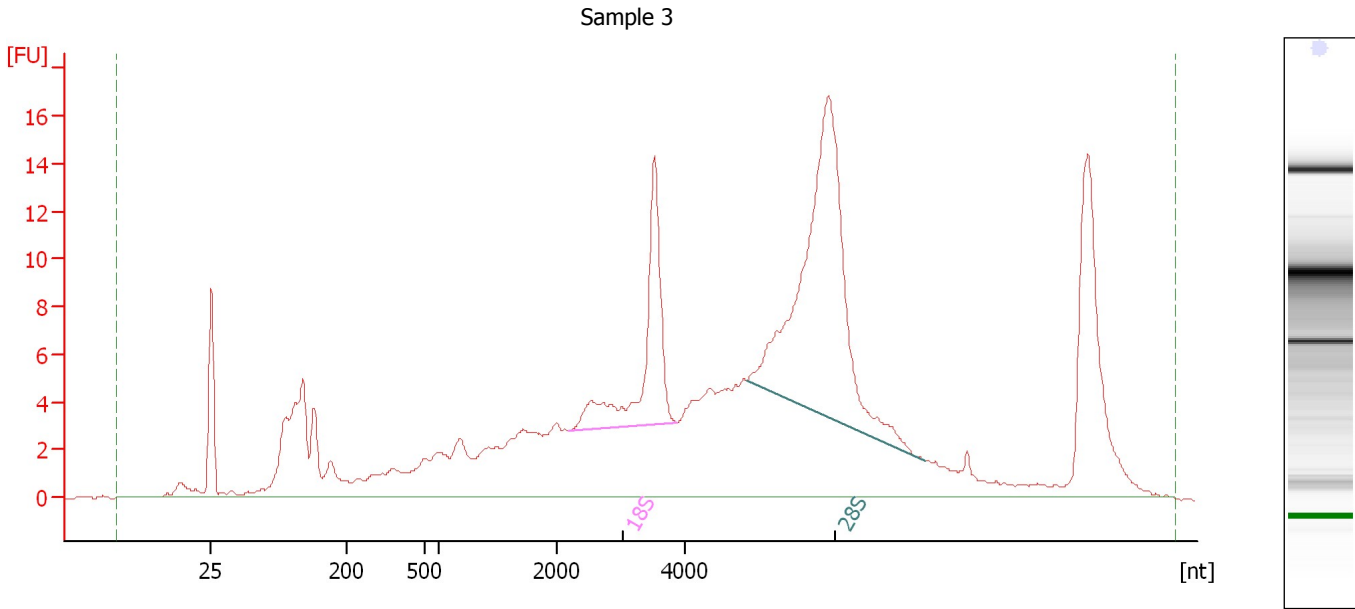
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,210	3,764	11.0	4.9
28S	5,558	6,715	14.9	6.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	311.3	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	1,871 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.6	Result Flagging Label:	RIN: 7.90

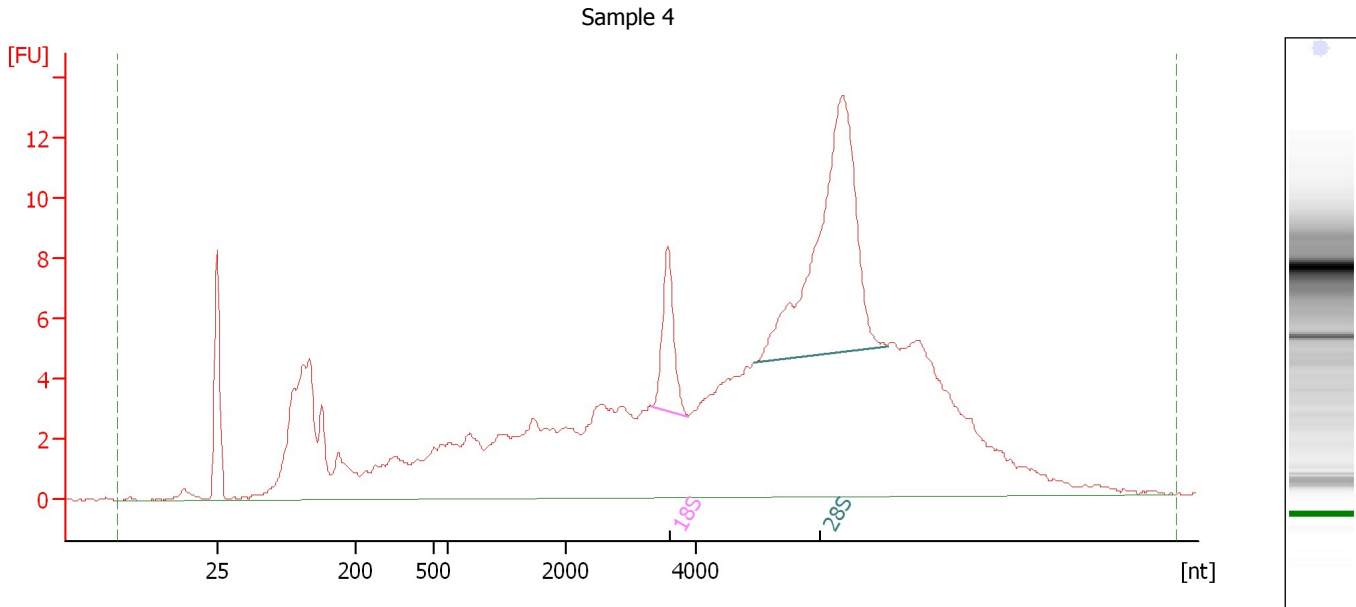
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,191	3,870	22.0	7.1
28S	4,968	7,728	56.2	18.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	274.5	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	1,650 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.7	Result Flagging Label:	RIN: 5.90

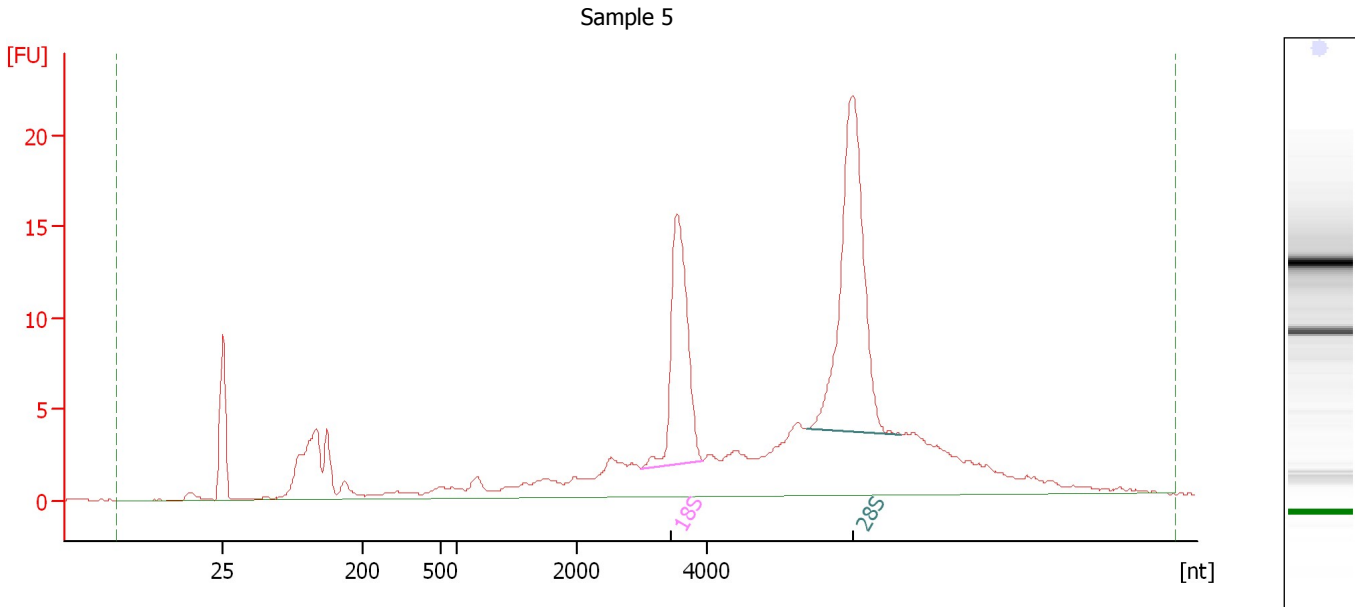
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,301	3,877	7.3	2.7
28S	4,898	6,938	34.1	12.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	206.6	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	1,241 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.50

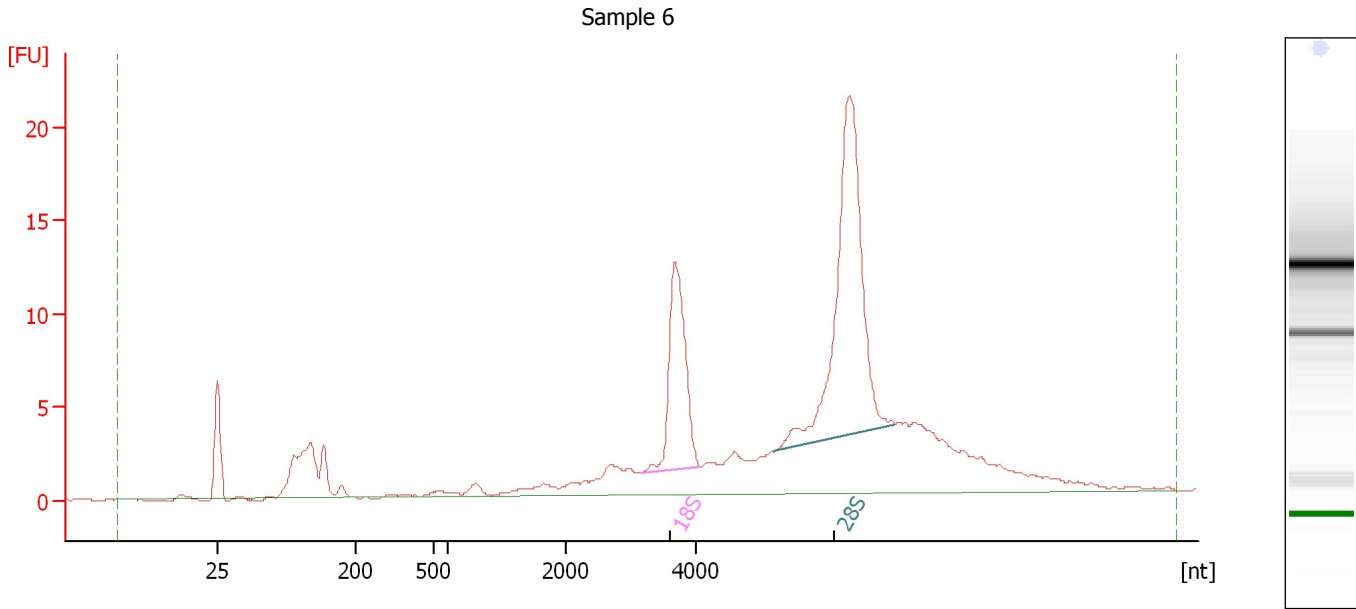
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,992	3,918	26.2	12.7
28S	5,495	6,942	42.2	20.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	177.9	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	1,069 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN:9

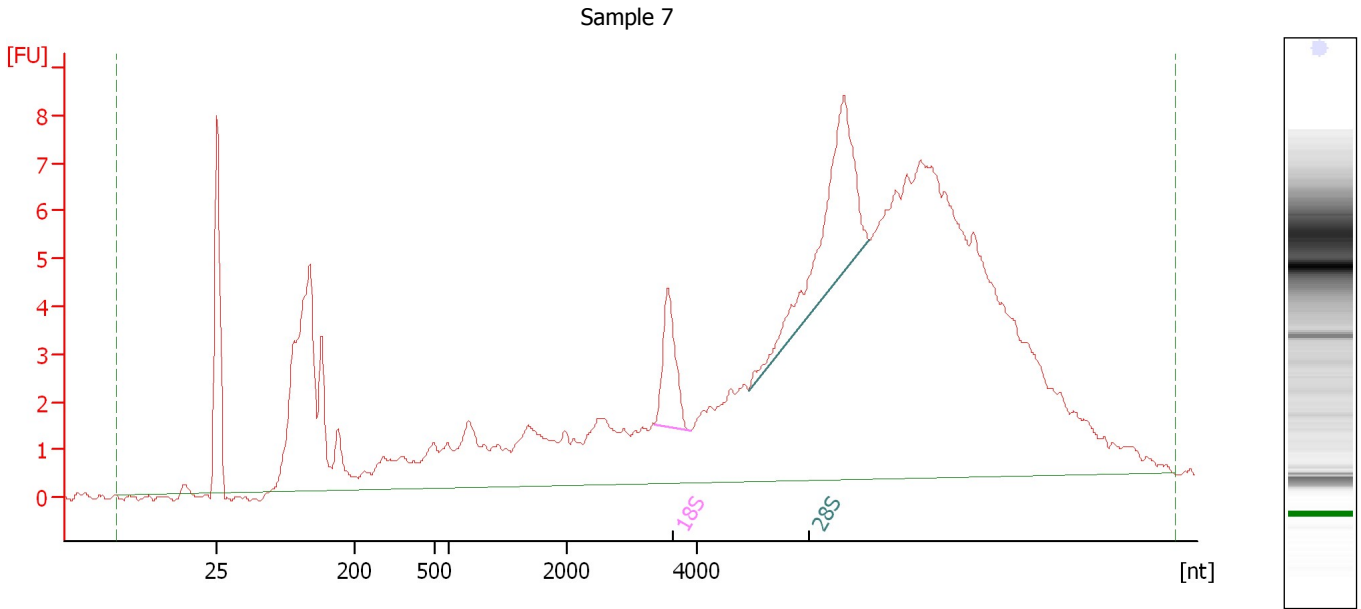
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,153	4,058	21.5	12.1
28S	5,194	7,053	46.2	26.0

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
 Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	200.4	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	1,204 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN:4

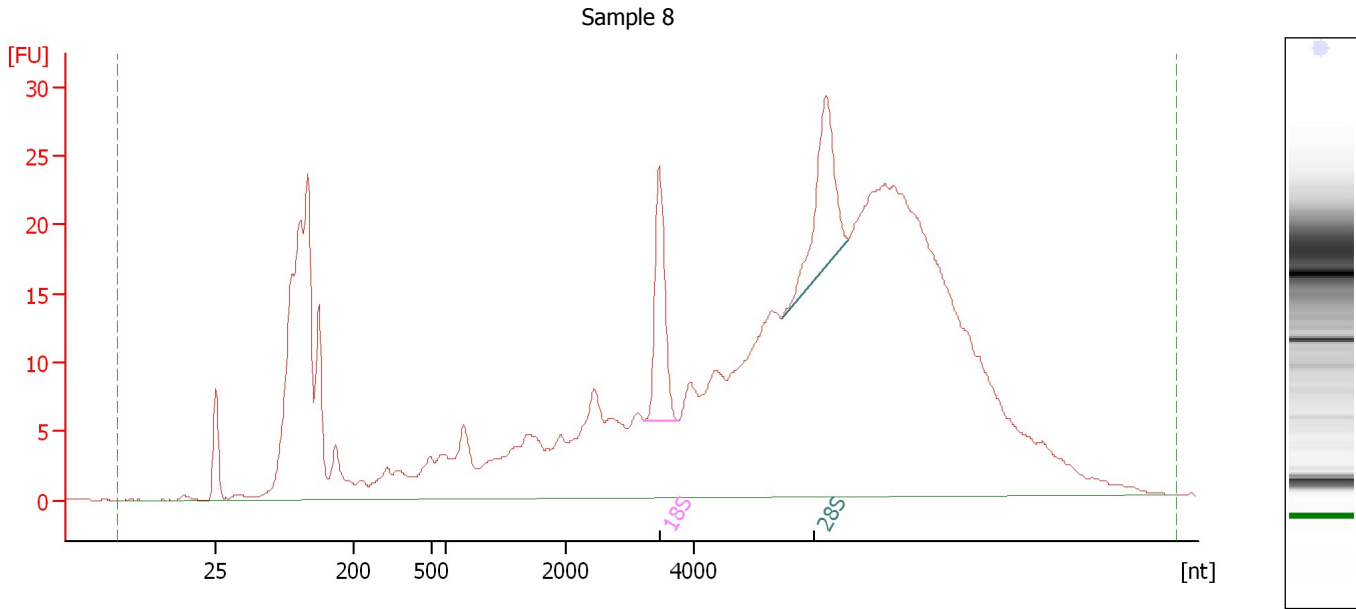
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,337	3,895	4.3	2.2
28S	4,782	6,638	11.9	5.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	738.4	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	4,437 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 3.80

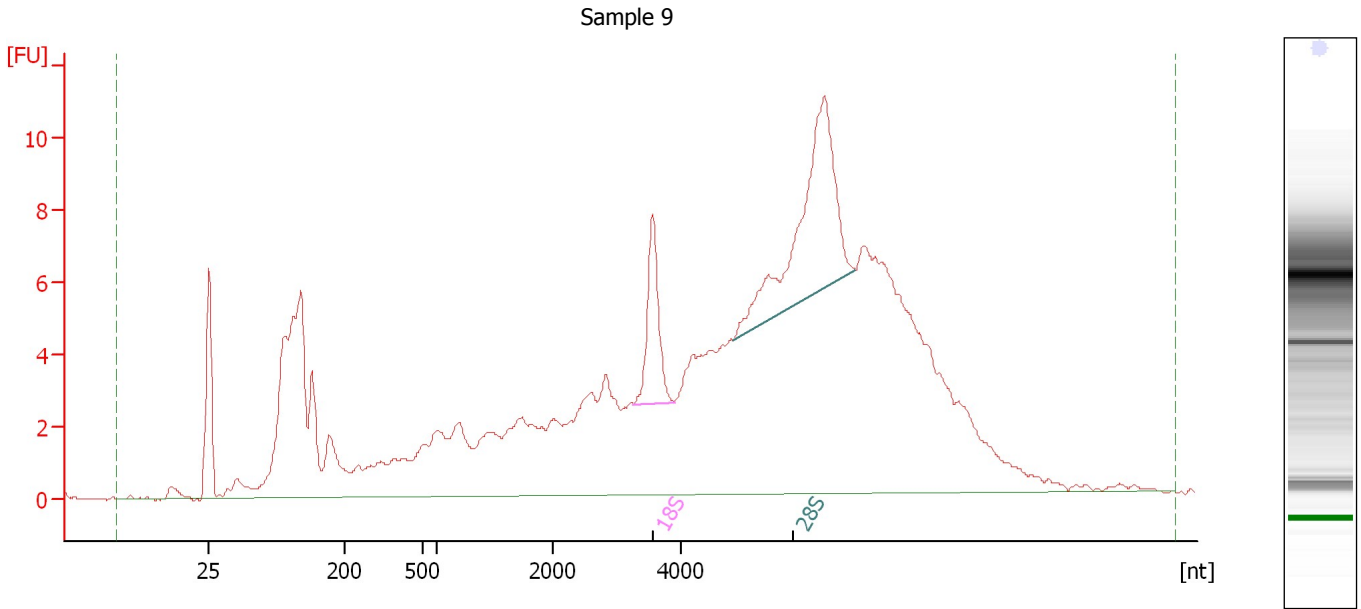
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,233	3,744	21.6	2.9
28S	5,344	6,382	24.2	3.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
 Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	266.3	RNA Integrity Number (RIN):	4.6 (B.02.08)
RNA Concentration:	1,600 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.8	Result Flagging Label:	RIN: 4.60

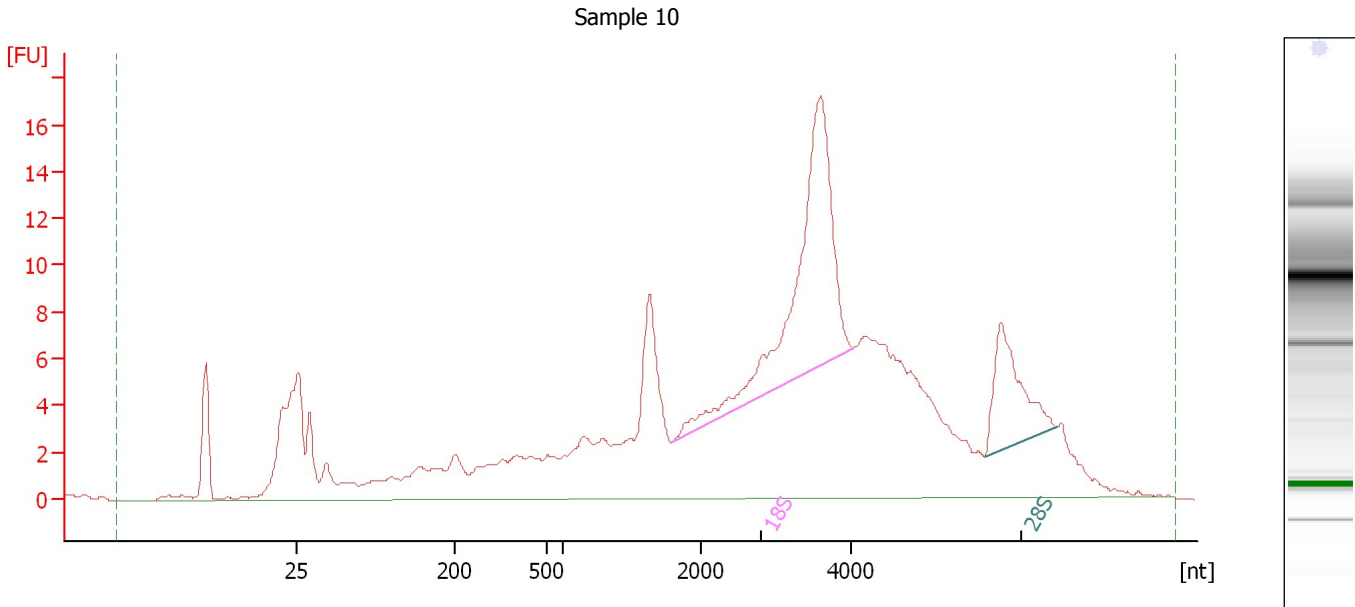
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,249	3,901	7.0	2.6
28S	4,819	6,723	19.7	7.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area: 293.7 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 1,765 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 6.70

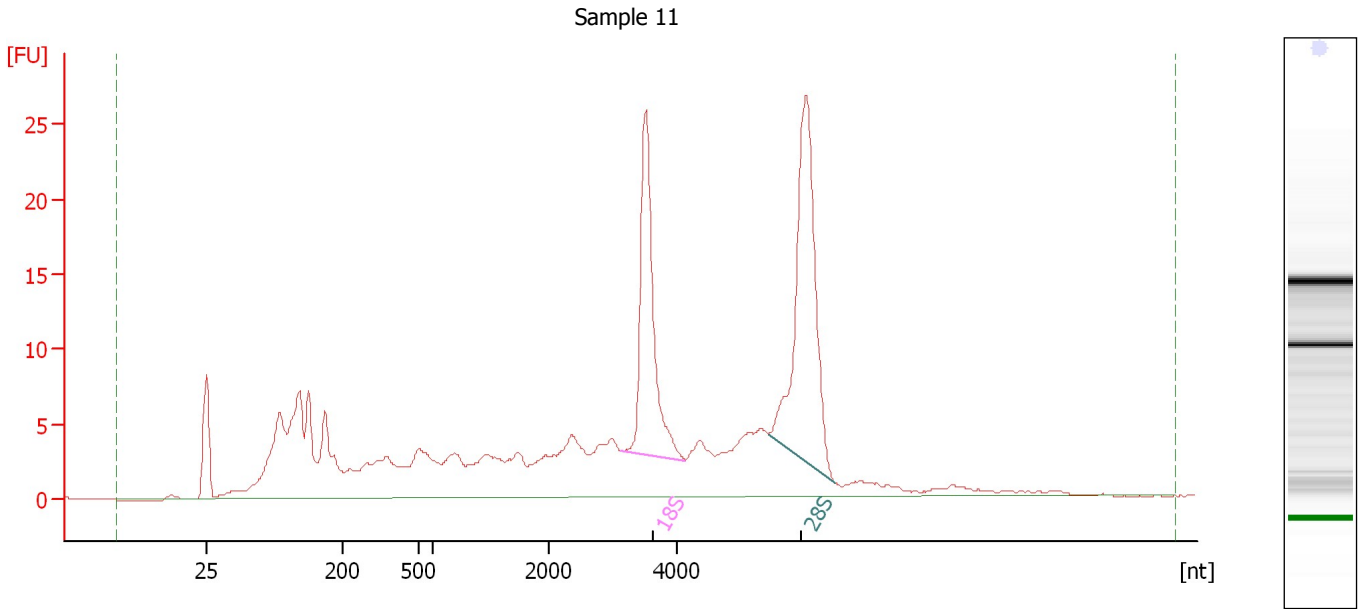
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,792	4,027	42.0	14.3
28S	5,793	6,762	12.7	4.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	315.4	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	1,895 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.10

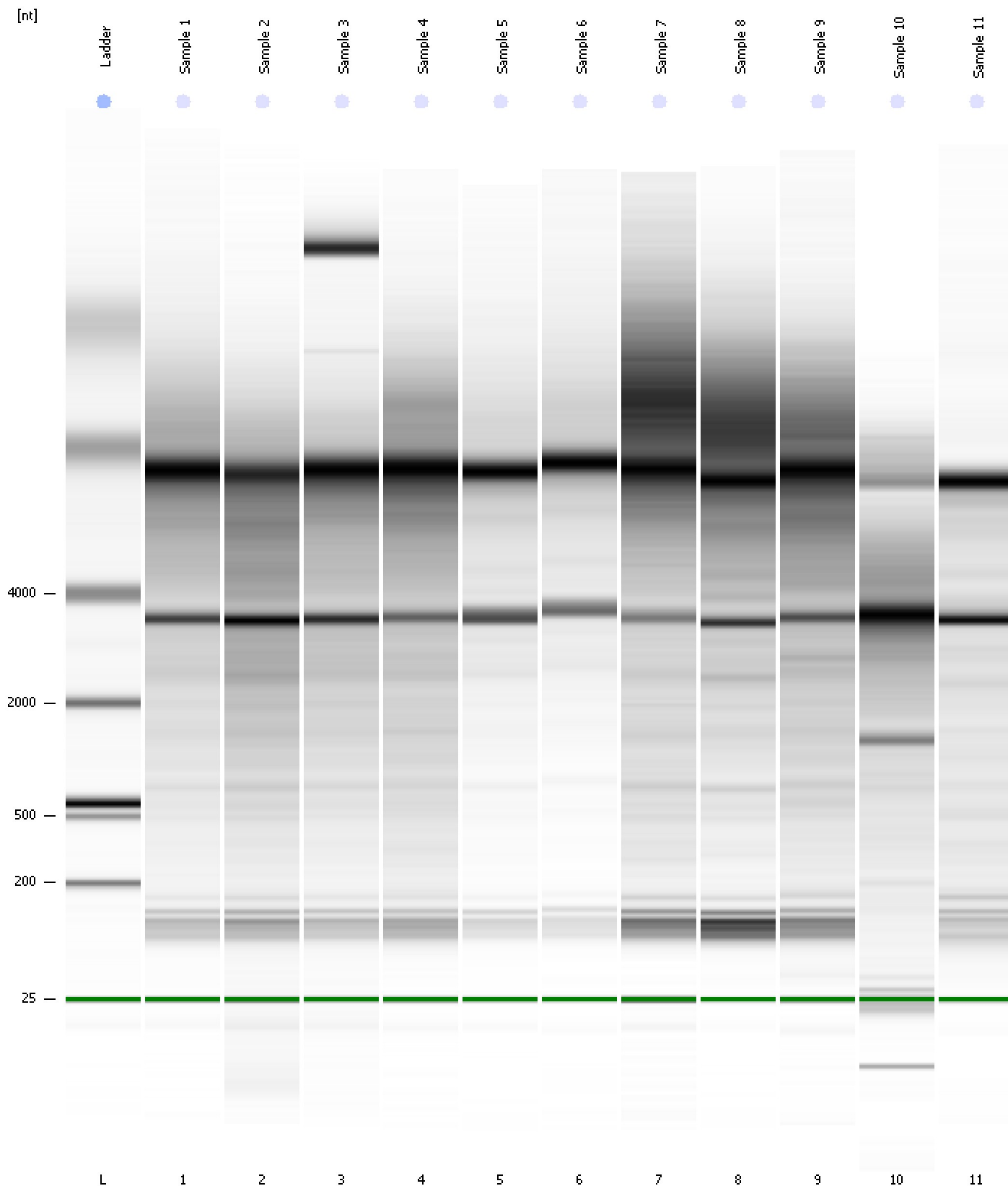
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,126	4,132	34.8	11.0
28S	5,440	6,480	49.2	15.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
Modified: 8/16/2016 11:59:34 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad

Created: 8/16/2016 11:36:39 AM
 Modified: 8/16/2016 11:59:34 AM

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		8/16/2016 11:59:33 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_001.xad)		Instrument	Run		8/16/2016 11:36:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/16/2016 11:36:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/16/2016 11:36:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/16/2016 11:36:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/16/2016 11:36:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/16/2016 11:36:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/16/2016 11:36:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1