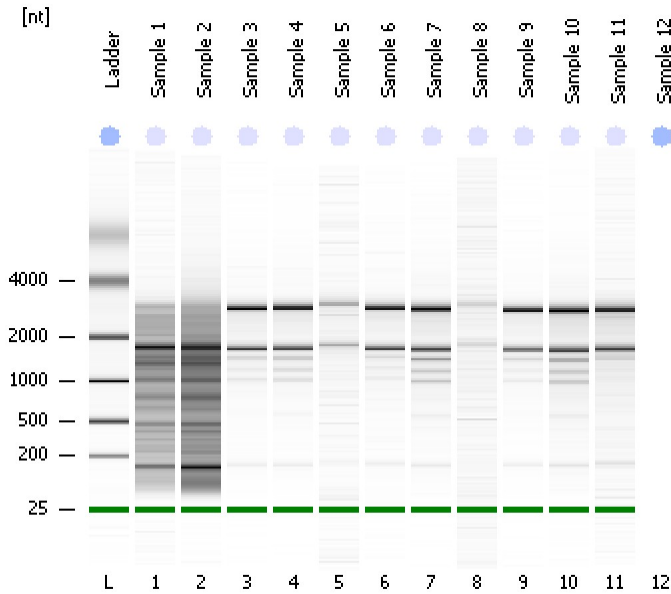


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
Modified: 7/18/2014 11:03:28 AM

Electrophoresis File Run Summary



Instrument Information:

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

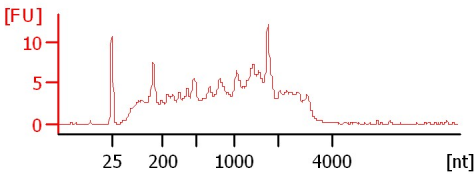
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

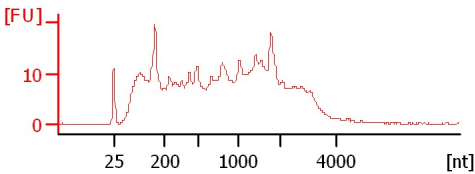
Chip Information:

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

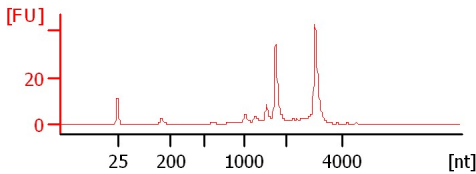
Sample 1
RIN: 3.80



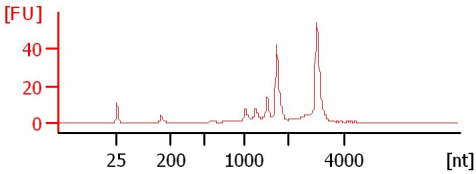
Sample 2
RIN: 2.90



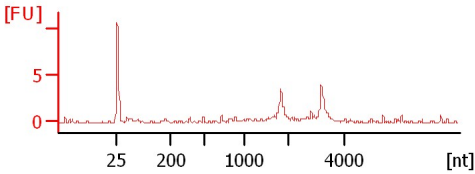
Sample 3
RIN: 8.30



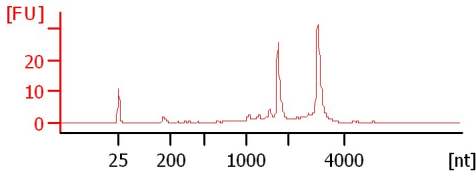
Sample 4
RIN: 7.90



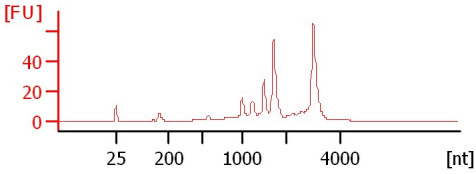
Sample 5
RIN: 8



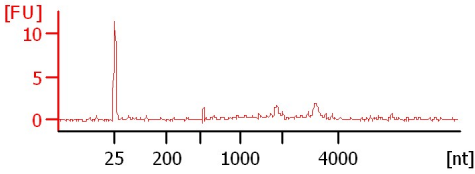
Sample 6
RIN: 8.50



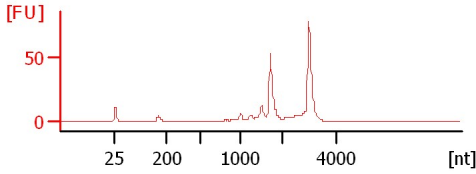
Sample 7
RIN: 7.40



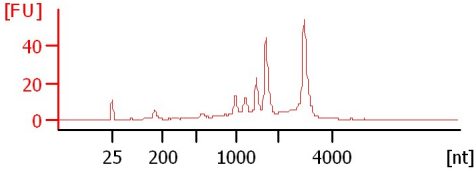
Sample 8
RIN: 5.60



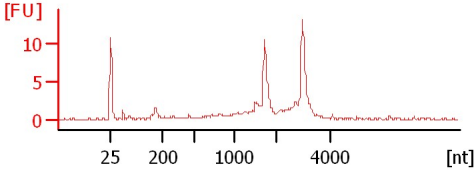
Sample 9
RIN: 8.60



Sample 10
RIN: 7.40



Sample 11
RIN: 7.80



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
Modified: 7/18/2014 11:03:28 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 3.80	
Sample 2		✓	RIN: 2.90	
Sample 3		✓	RIN: 8.30	
Sample 4		✓	RIN: 7.90	
Sample 5		✓	RIN:8	
Sample 6		✓	RIN: 8.50	
Sample 7		✓	RIN: 7.40	
Sample 8		✓	RIN: 5.60	
Sample 9		✓	RIN: 8.60	
Sample 10		✓	RIN: 7.40	
Sample 11		✓	RIN: 7.80	
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
Modified: 7/18/2014 11:03:28 AM

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/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 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

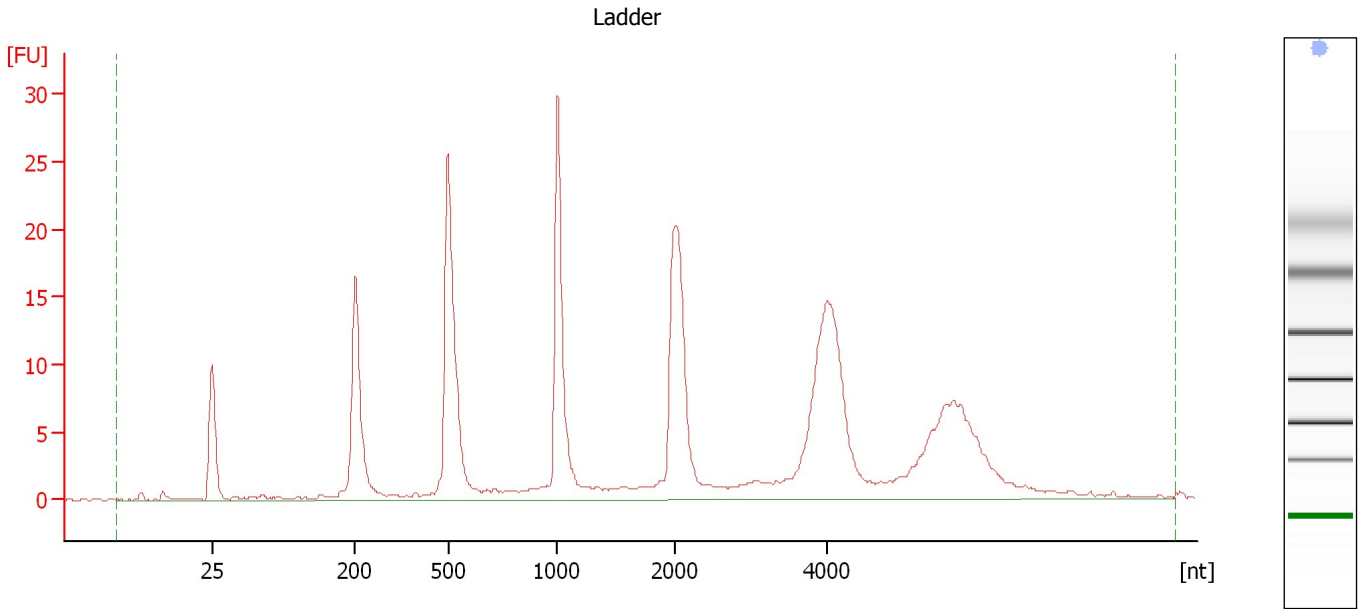
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary



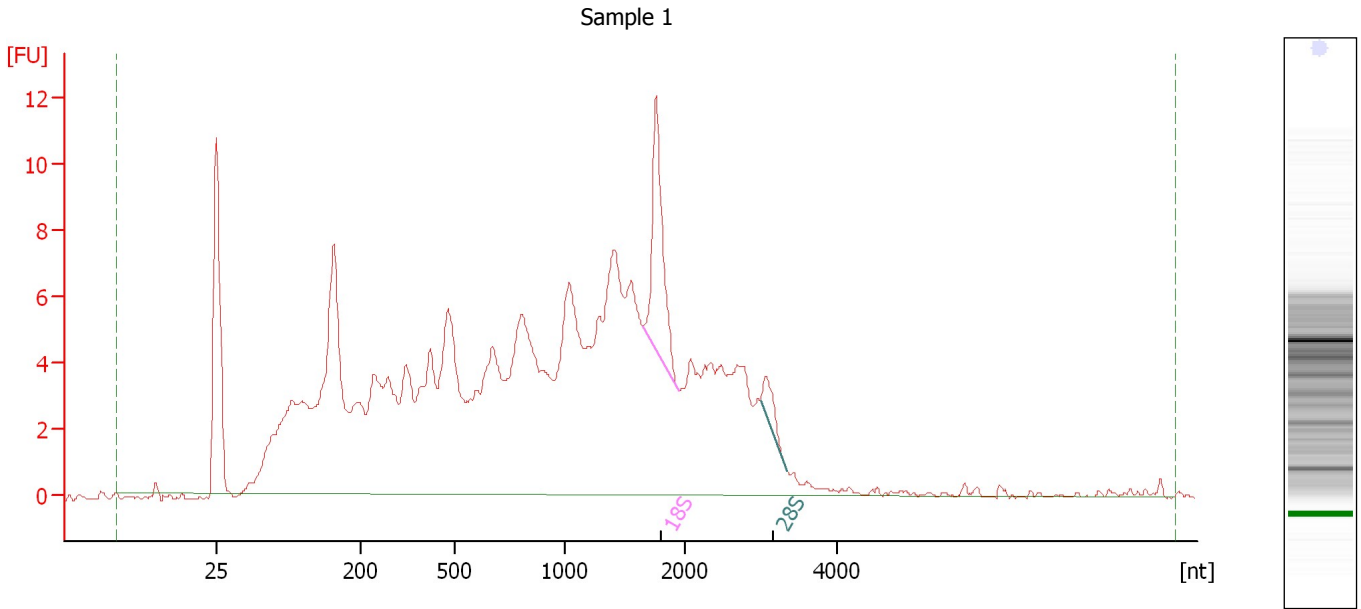
Overall Results for Ladder

RNA Area:	254.8	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	258.2	RNA Integrity Number (RIN):	3.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	152 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 3.80

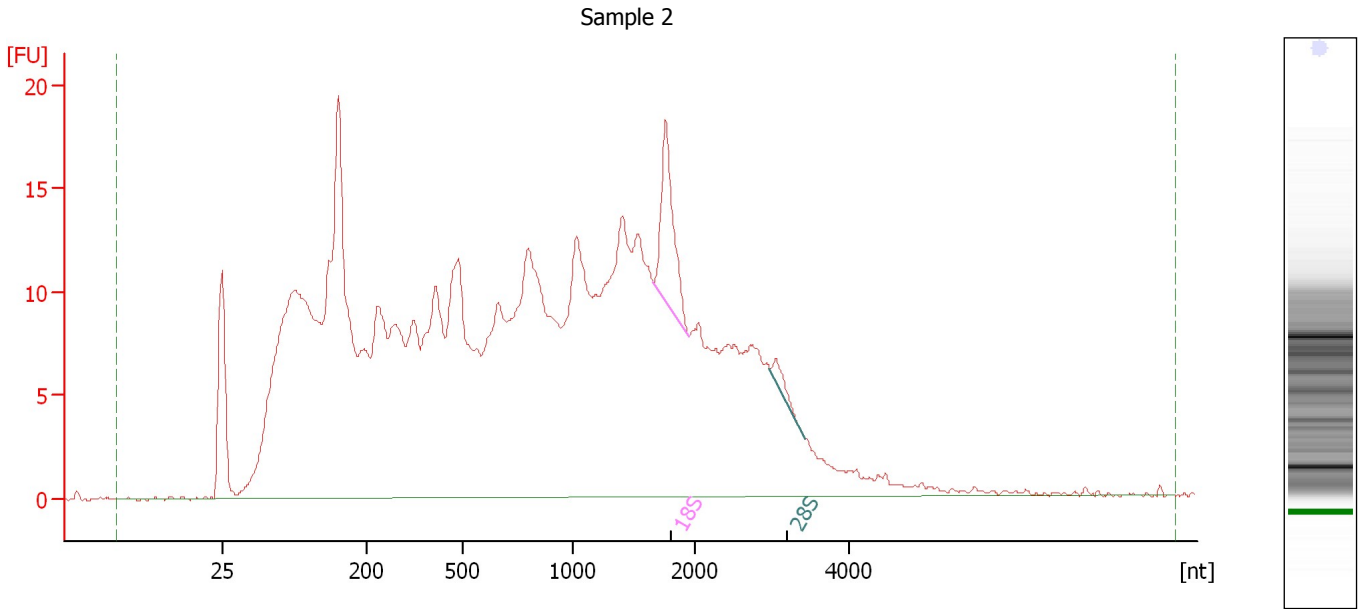
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	1,949	9.6	3.7
28S	2,996	3,346	1.5	0.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	631.3	RNA Integrity Number (RIN):	2.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	372 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.90

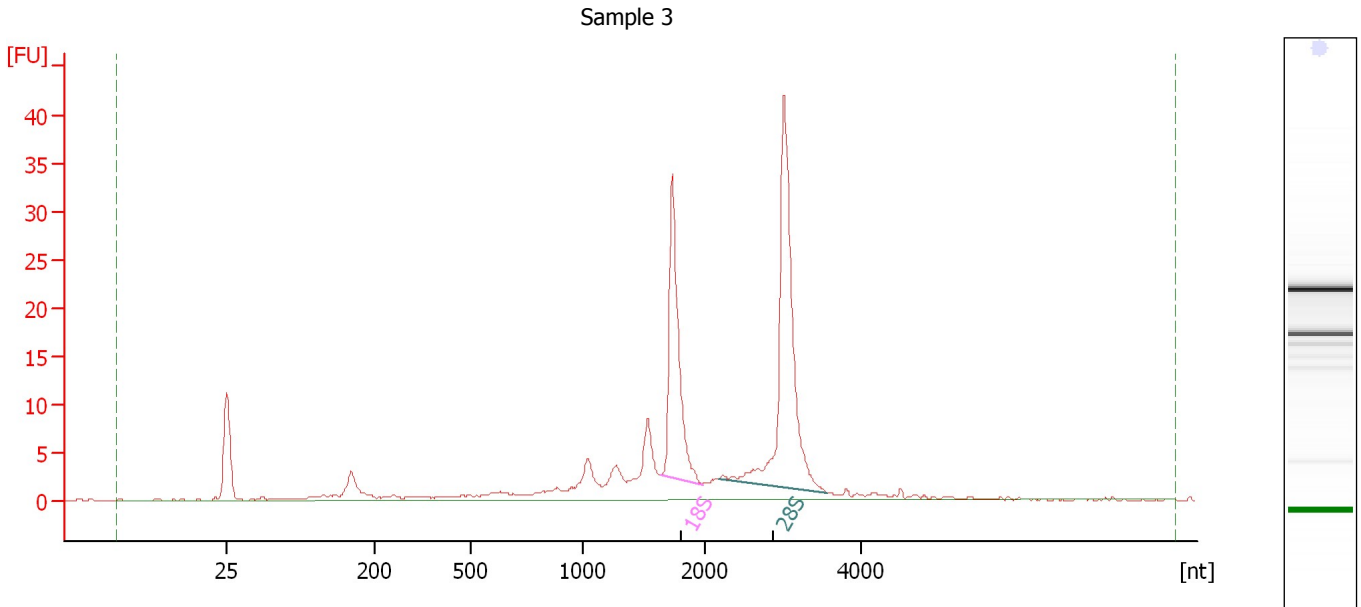
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	1,954	12.5	2.0
28S	2,979	3,421	1.5	0.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	175.4	RNA Integrity Number (RIN):	8.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	103 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.30

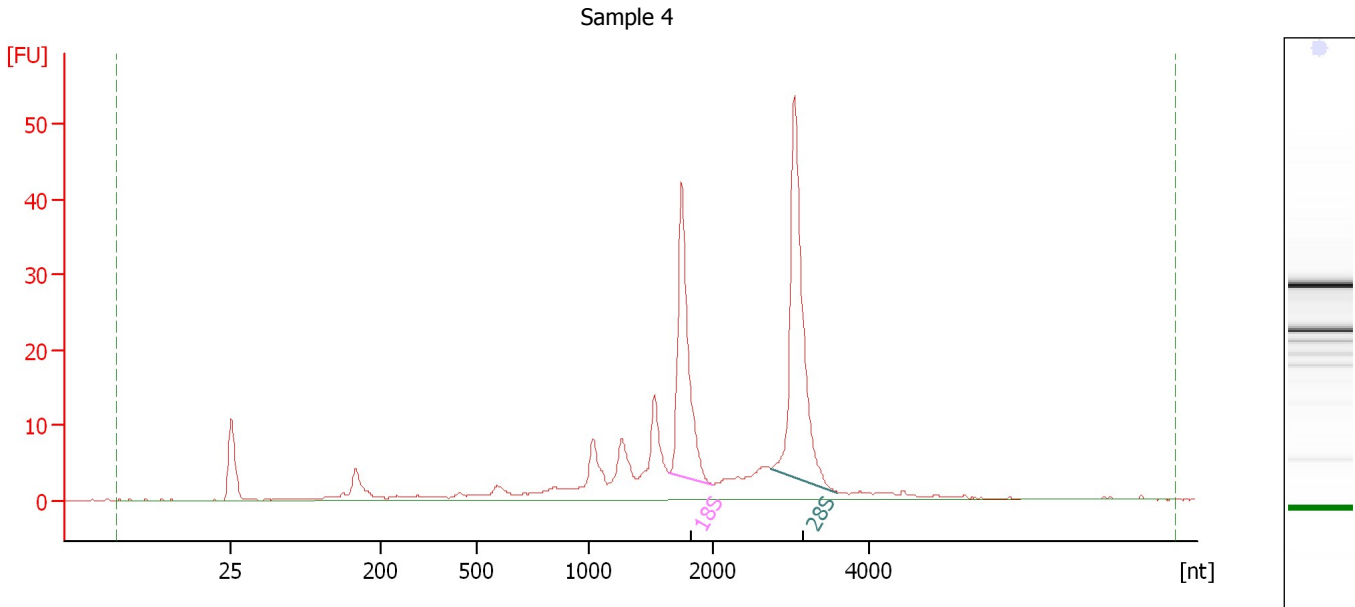
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,985	34.3	19.6
28S	2,195	3,578	55.8	31.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	254.6	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	150 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.90

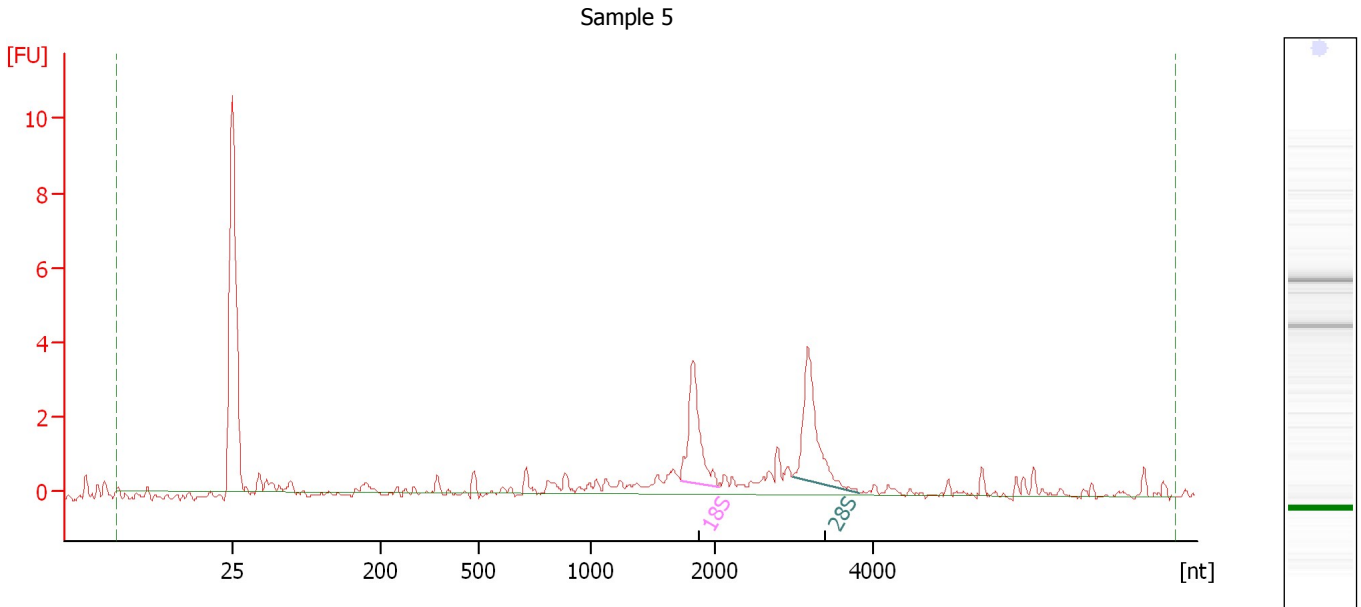
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,997	47.0	18.5
28S	2,742	3,584	66.2	26.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	25.3	RNA Integrity Number (RIN):	8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN:8

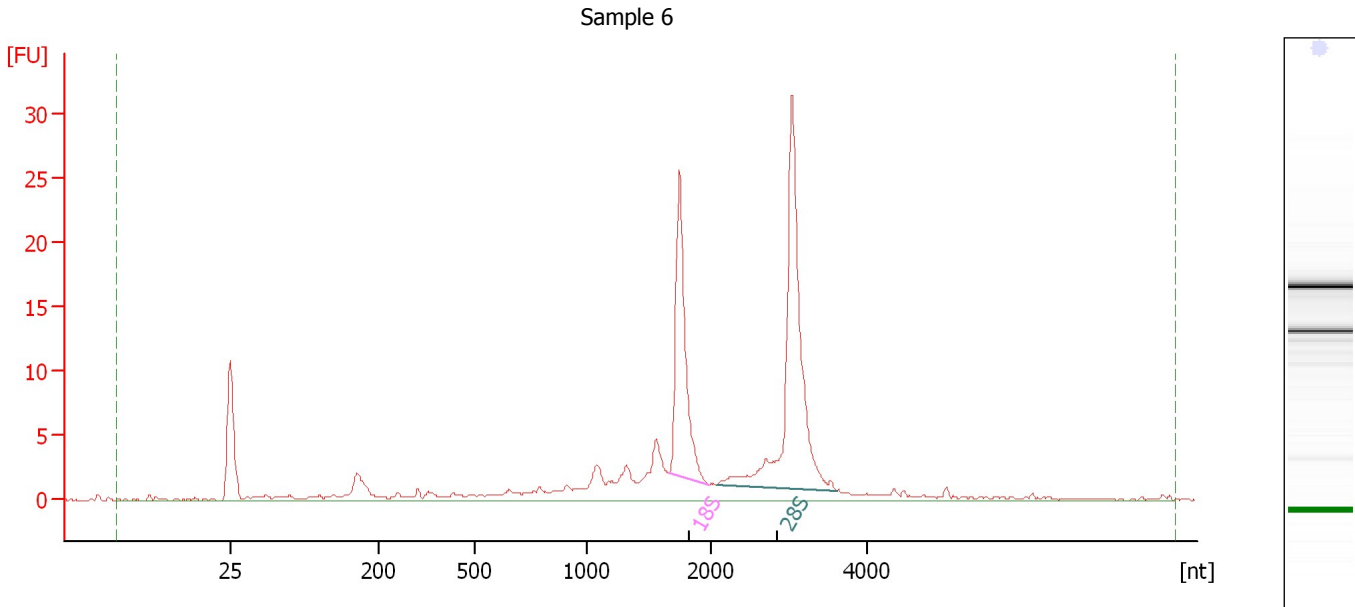
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,720	2,051	4.3	16.8
28S	2,986	3,839	5.0	19.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	143.8	RNA Integrity Number (RIN):	8.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	85 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.50

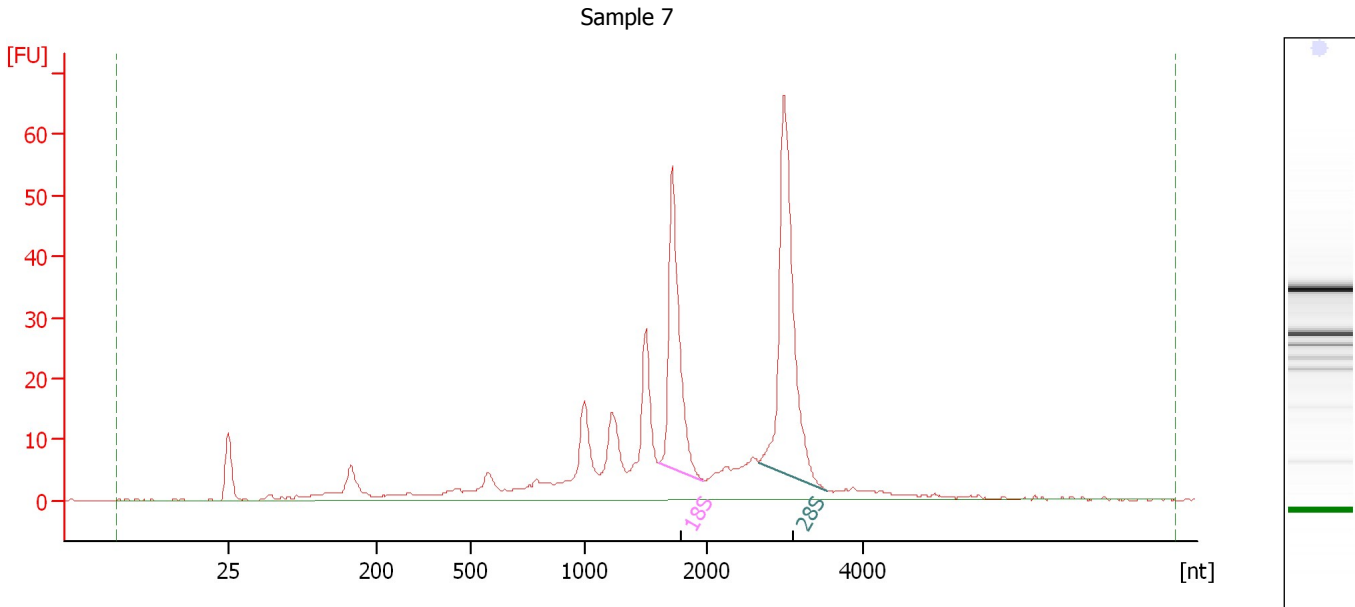
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,665	1,987	25.7	17.9
28S	2,089	3,599	46.1	32.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	393.7	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	232 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 7.40

Fragment table for sample 7 : Sample 7

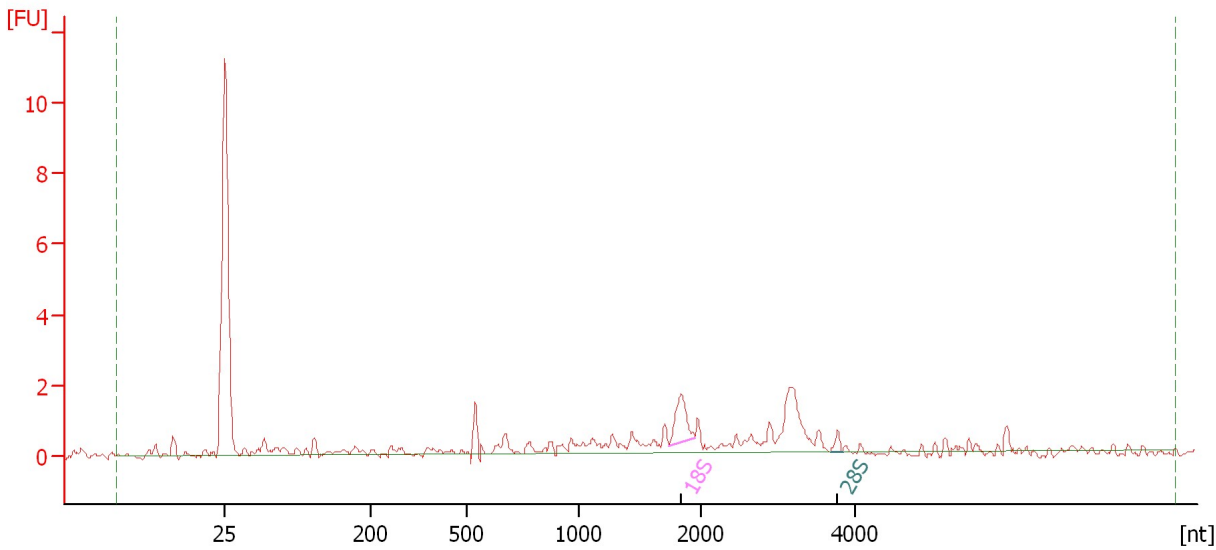
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	1,977	59.6	15.1
28S	2,661	3,548	90.4	23.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

RNA Area:	21.9	RNA Integrity Number (RIN):	5.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	13 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 5.60

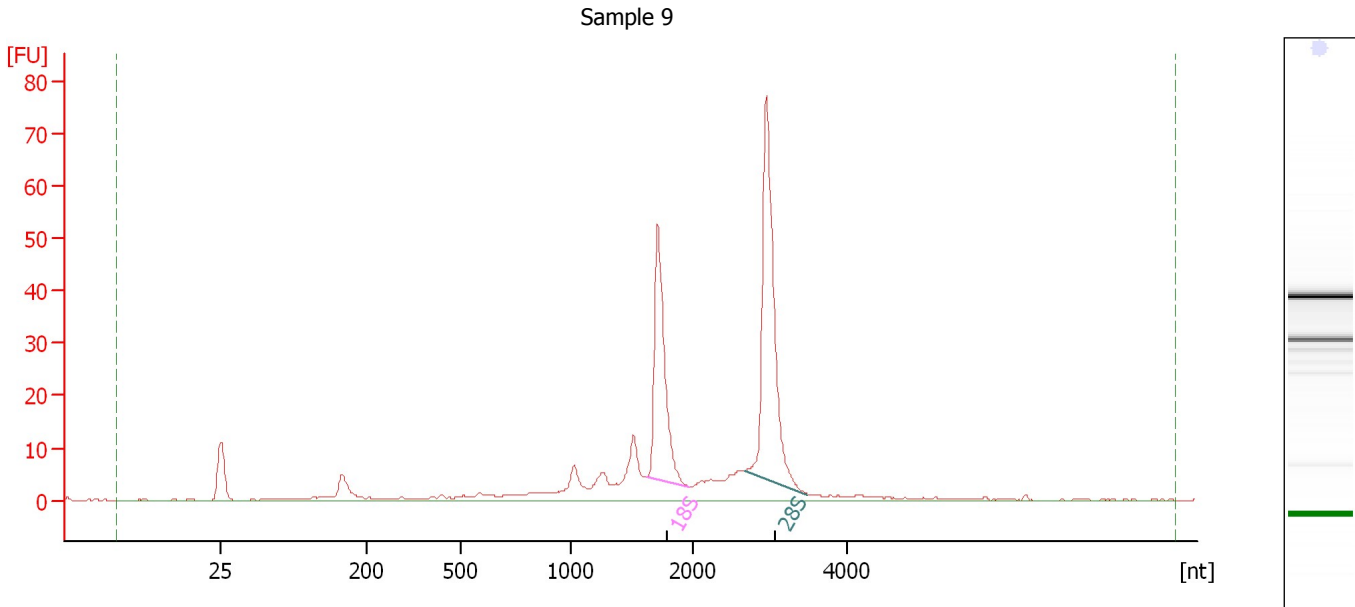
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,746	1,957	1.7	7.9
28S	3,678	3,829	0.3	1.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	295.8	RNA Integrity Number (RIN):	8.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	174 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.60

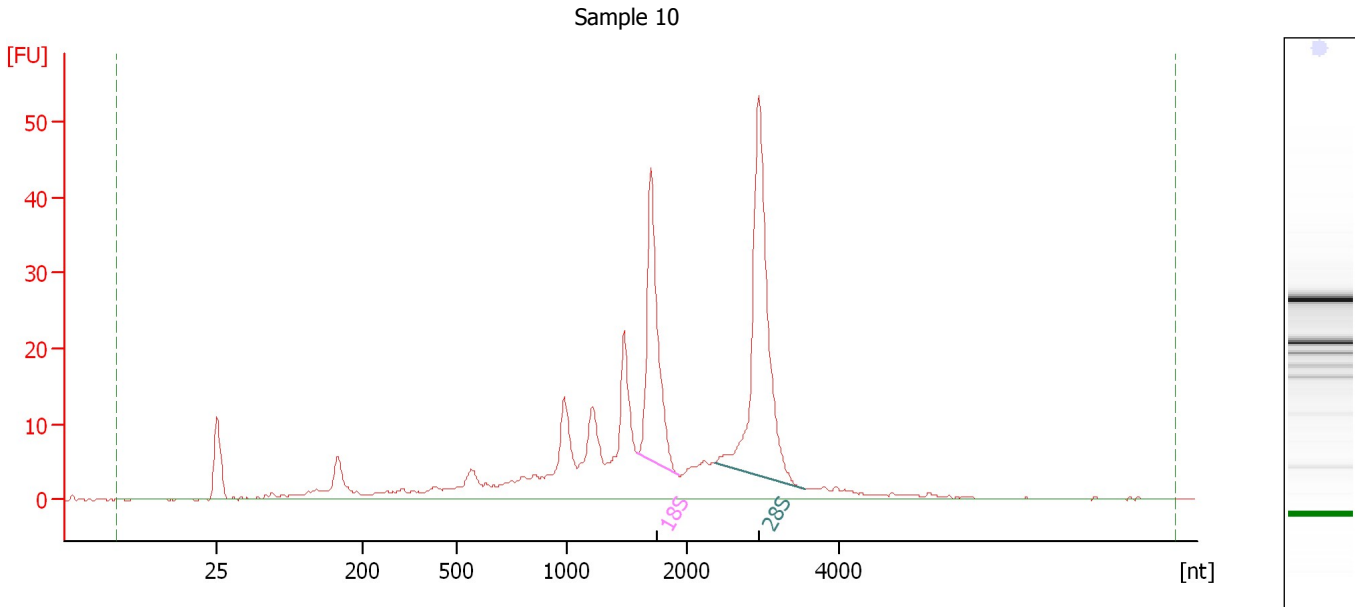
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,971	58.2	19.7
28S	2,675	3,492	90.5	30.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	350.1	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	206 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.40

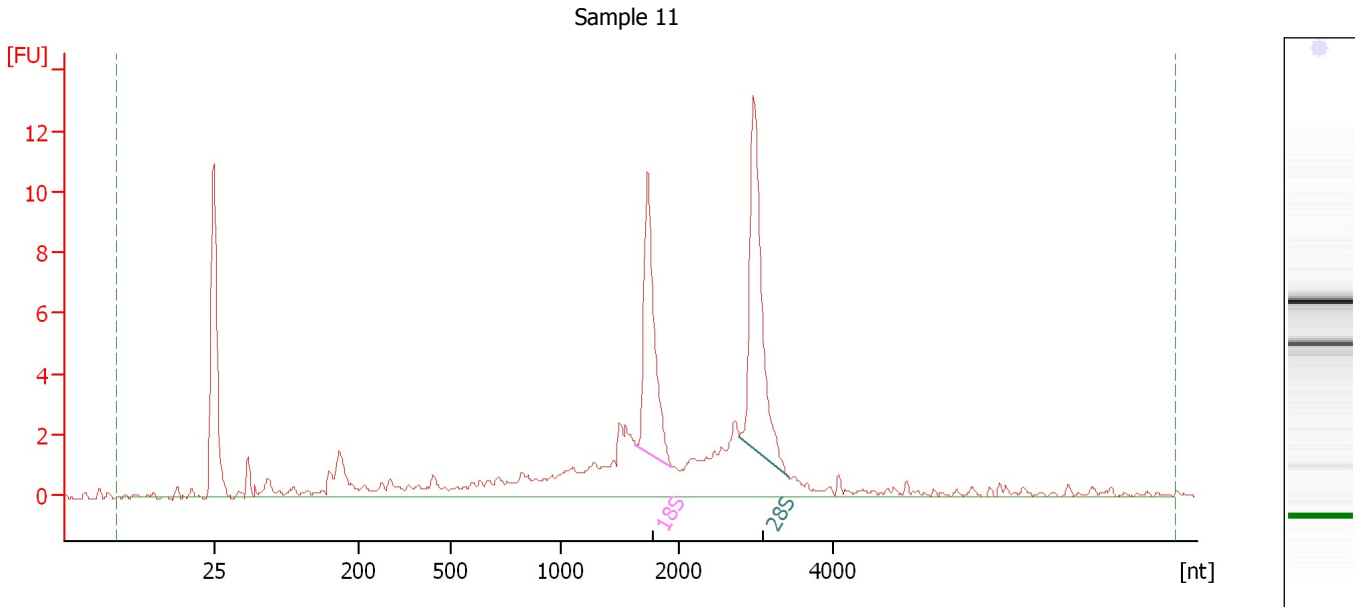
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,932	50.3	14.4
28S	2,382	3,553	82.6	23.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	81.2	RNA Integrity Number (RIN):	7.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	48 ng/μl		
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.80

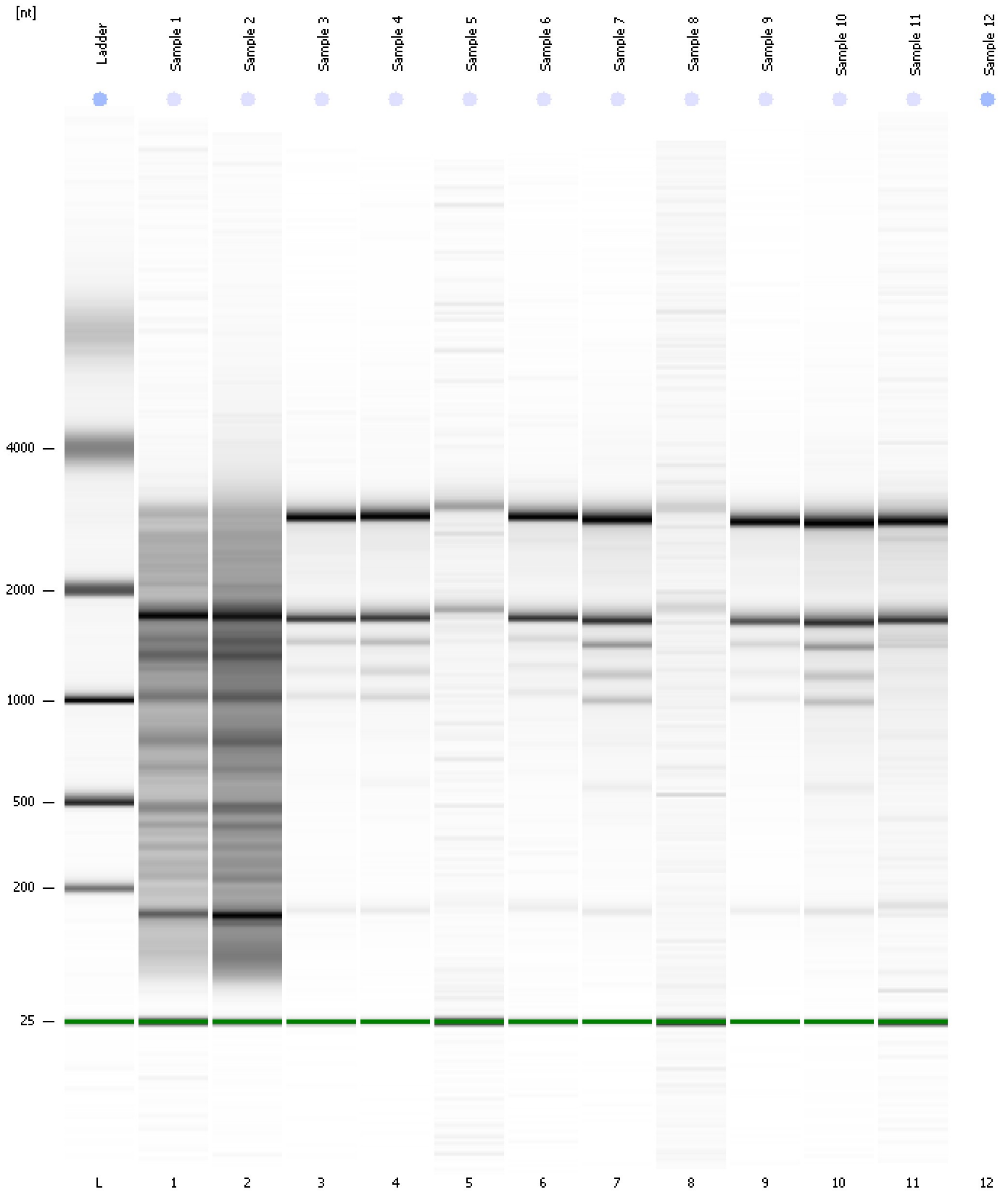
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,929	11.2	13.8
28S	2,788	3,419	14.9	18.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
Modified: 7/18/2014 11:03:28 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
Modified: 7/18/2014 11:03:28 AM

Invalid Samples

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-18\2014-07-18_001.xad

Created: 7/18/2014 10:37:37 AM
 Modified: 7/18/2014 11:03:28 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		7/18/2014 11:00:02 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\2014-07-18\2014-07-18_001.xad)		Instrument	Run		7/18/2014 10:37:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/18/2014 10:37:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/18/2014 10:37:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/18/2014 10:37:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/18/2014 10:37:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/18/2014 10:37:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/18/2014 10:37:42 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1