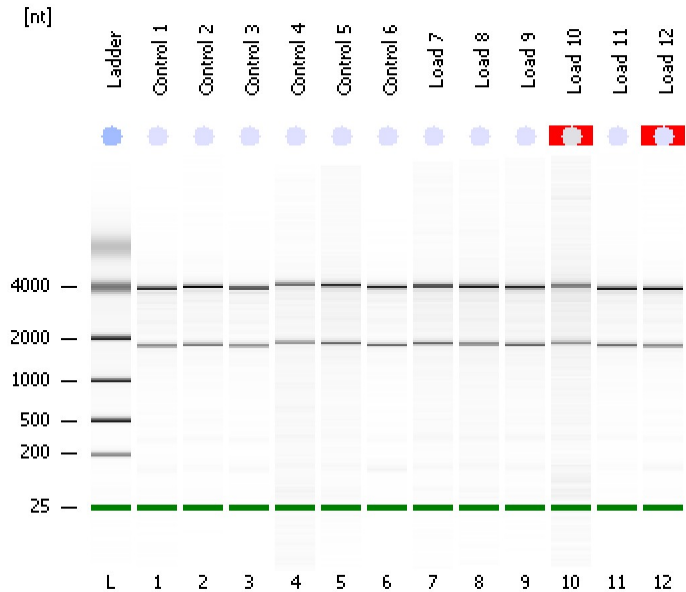


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electrophoresis File Run Summary



Instrument Information:

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

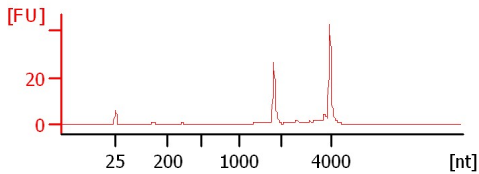
Assay Information:

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.

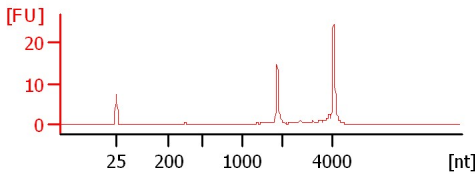
Chip Information:

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

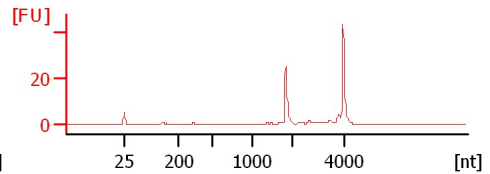
Control 1
RIN: 8.90



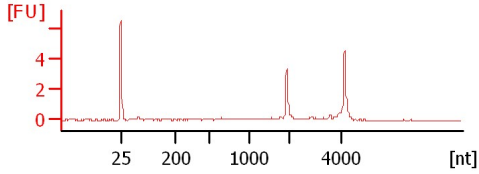
Control 2
RIN: 9



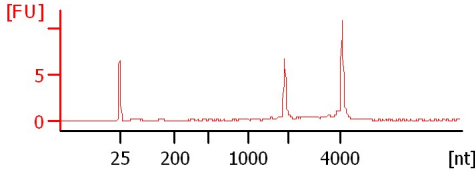
Control 3
RIN: 9.10



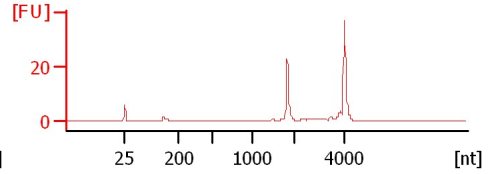
Control 4
RIN: 8.20



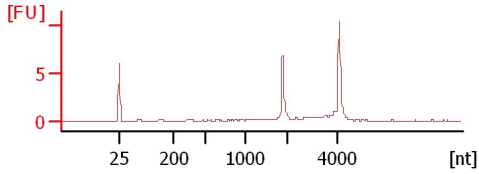
Control 5
RIN: 8.90



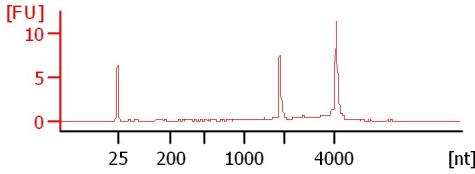
Control 6
RIN: 9.30



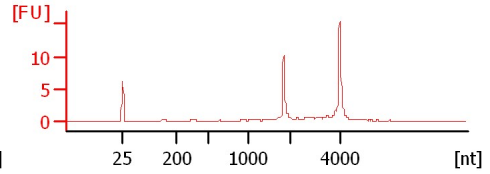
Load 7
RIN: 8.80



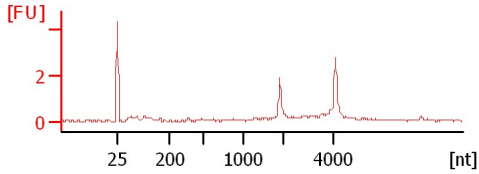
Load 8
RIN: 8.50



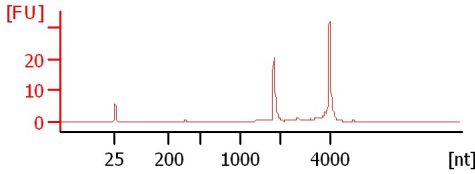
Load 9
RIN: 8.80



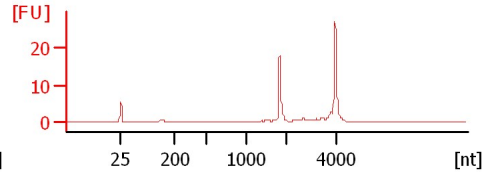
Load 10
RIN N/A



Load 11
RIN: 9.20



Load 12
RIN: 9.20



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Control 1		✓	RIN: 8.90	
Control 2		✓	RIN:9	
Control 3		✓	RIN: 9.10	
Control 4		✓	RIN: 8.20	
Control 5		✓	RIN: 8.90	
Control 6		✓	RIN: 9.30	
Load 7		✓	RIN: 8.80	
Load 8		✓	RIN: 8.50	
Load 9		✓	RIN: 8.80	
Load 10		✓	RIN N/A	
Load 11		✓	RIN: 9.20	
Load 12		✓	RIN: 9.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 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/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

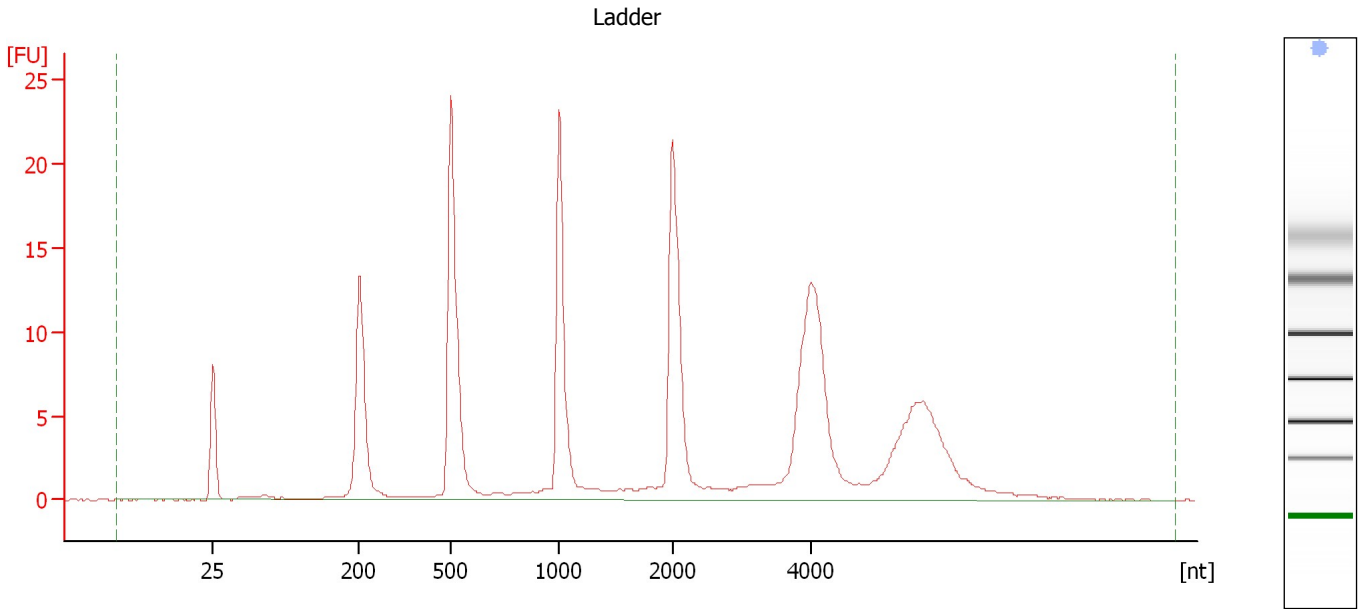
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary



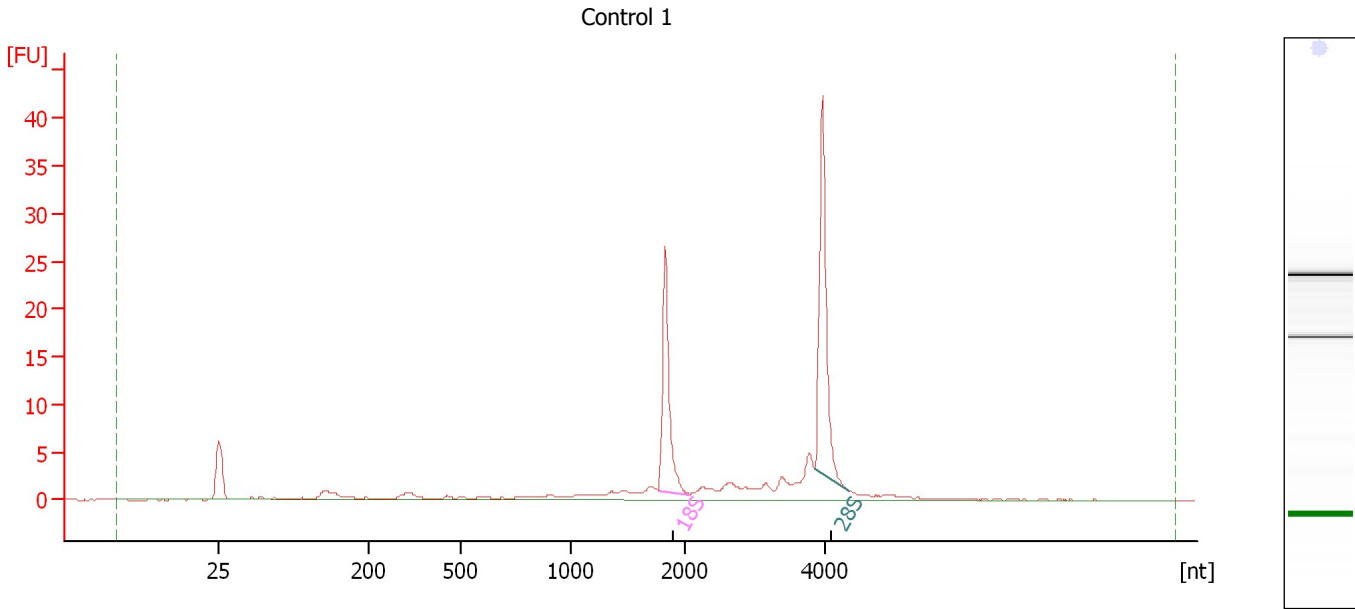
Overall Results for Ladder

RNA Area:	189.7	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\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Control 1

RNA Area:	102.5	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	81 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.90

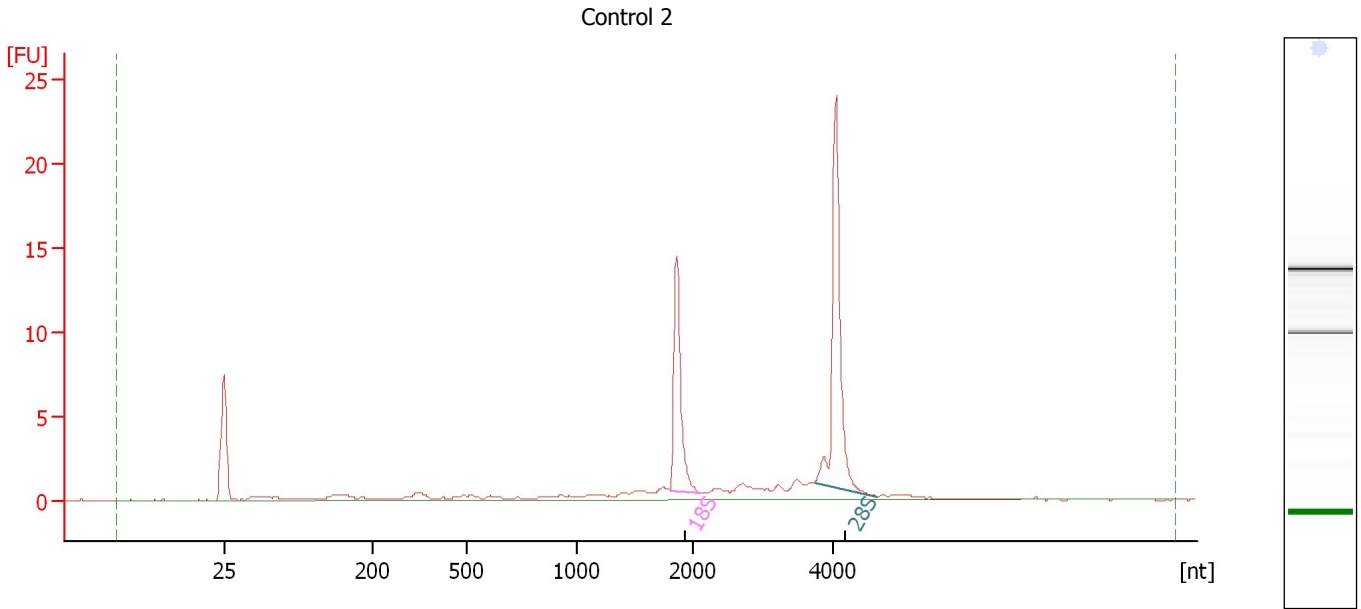
Fragment table for sample 1 : Control 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,772	2,070	20.2	19.8
28S	3,877	4,352	27.3	26.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Control 2

RNA Area:	54.4	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	43 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN:9

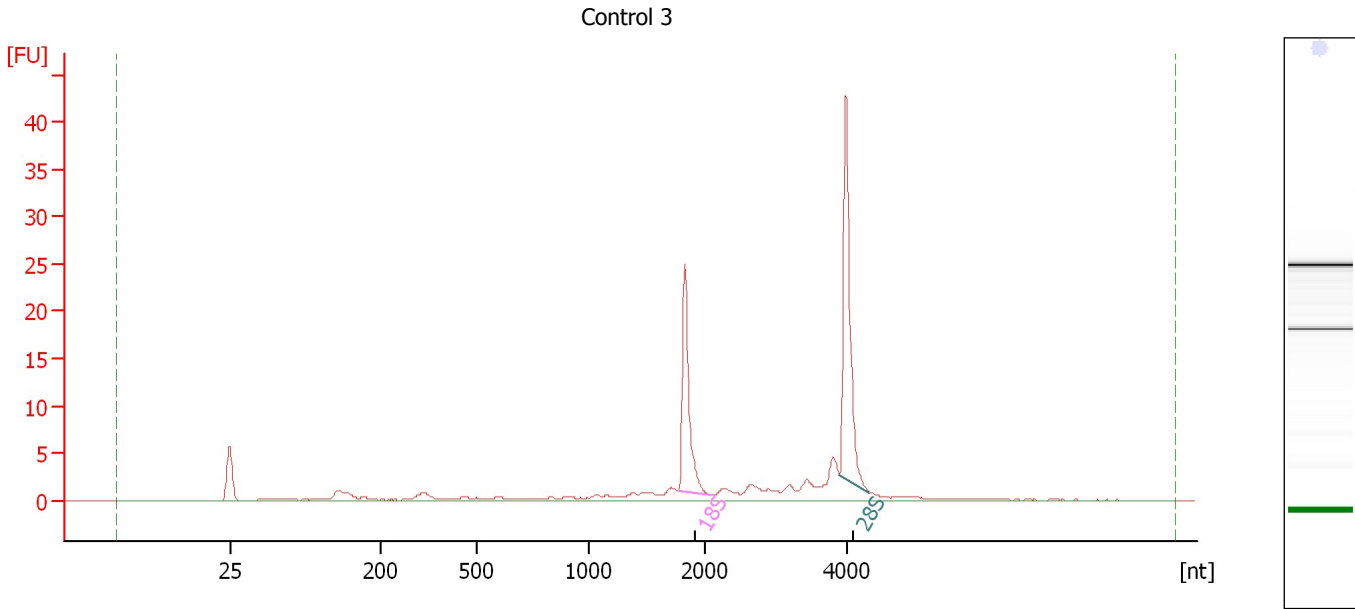
Fragment table for sample 2 : Control 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,806	2,106	10.7	19.7
28S	3,732	4,628	17.4	32.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Control 3

RNA Area: 91.1 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 72 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 9.10

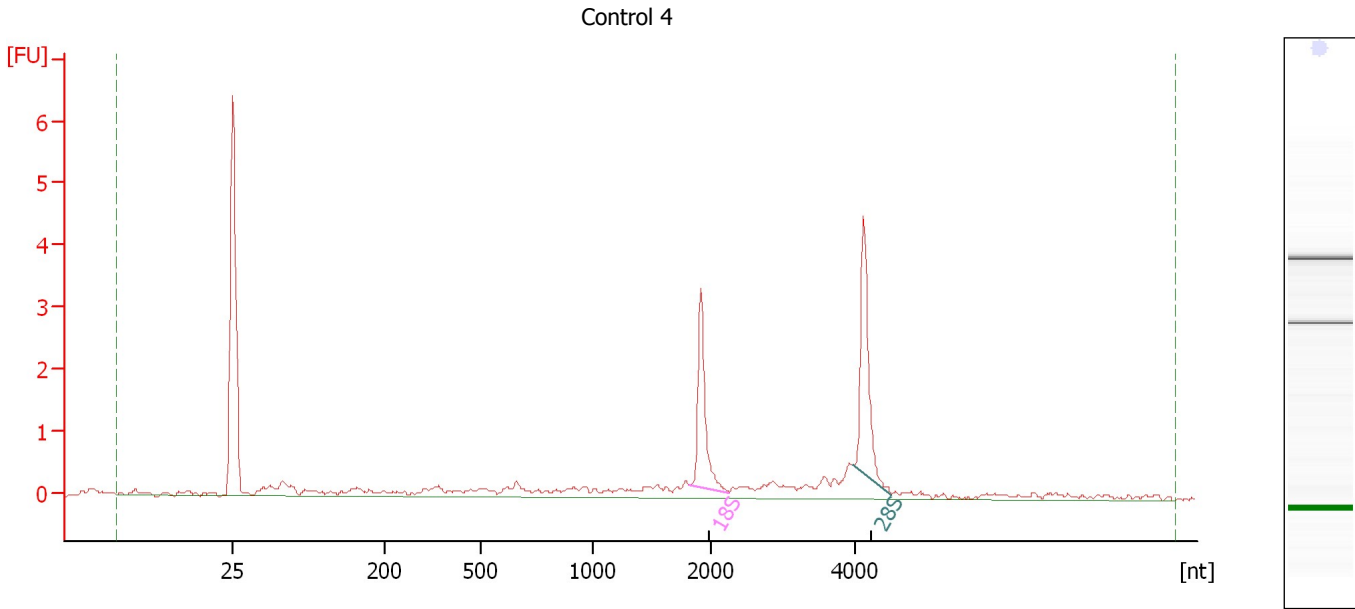
Fragment table for sample 3 : Control 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,777	2,070	19.2	21.1
28S	3,885	4,305	26.9	29.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
 Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Control 4

RNA Area:	18.5	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.20

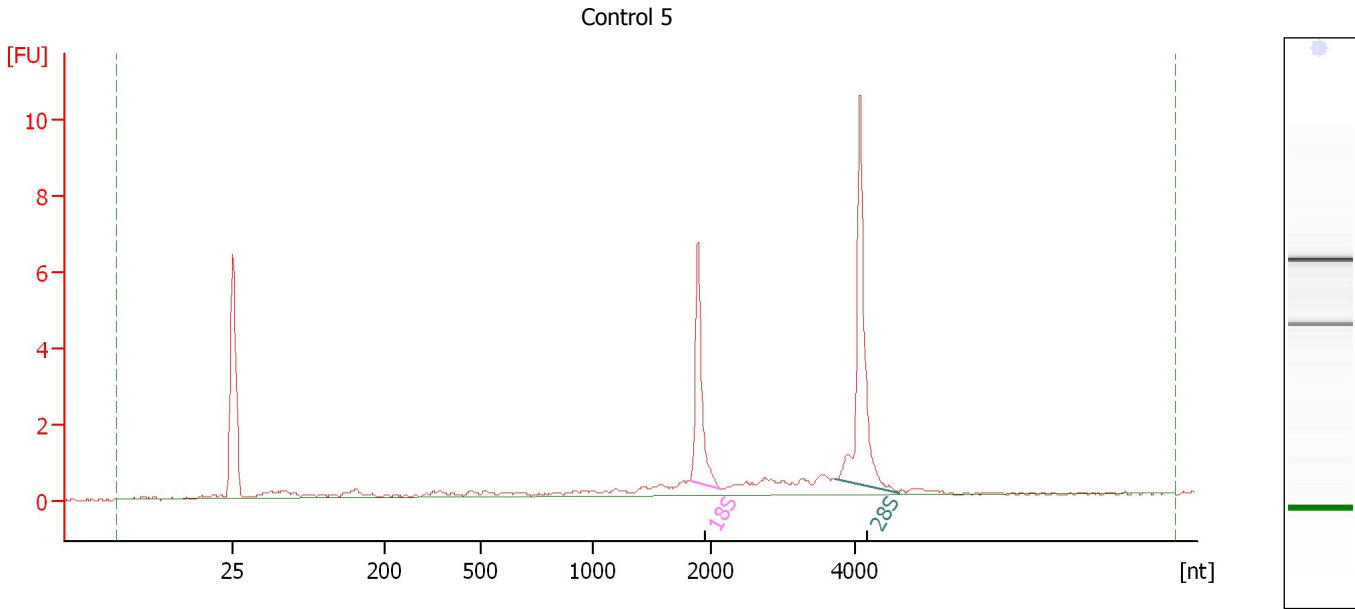
Fragment table for sample 4 : Control 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,818	2,253	2.7	14.7
28S	3,968	4,520	3.0	16.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Control 5

RNA Area:	27.1	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	21 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.90

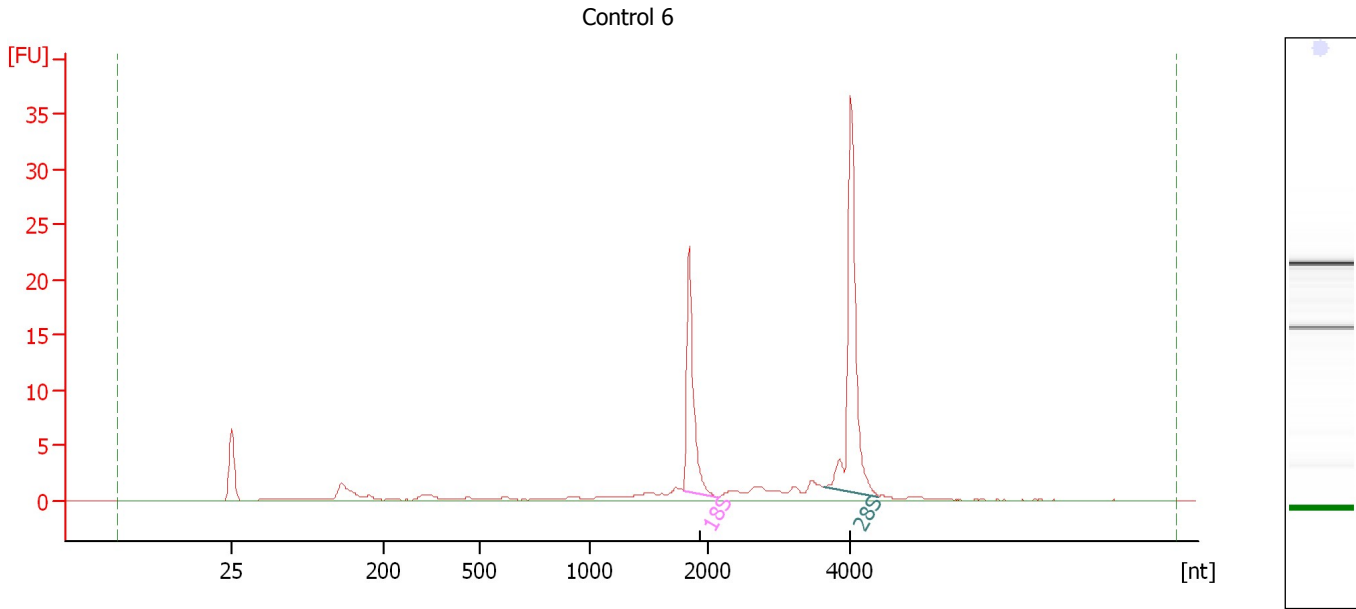
Fragment table for sample 5 : Control 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,827	2,148	4.9	18.0
28S	3,729	4,609	7.9	29.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Control 6

RNA Area: 79.4 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 63 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.30

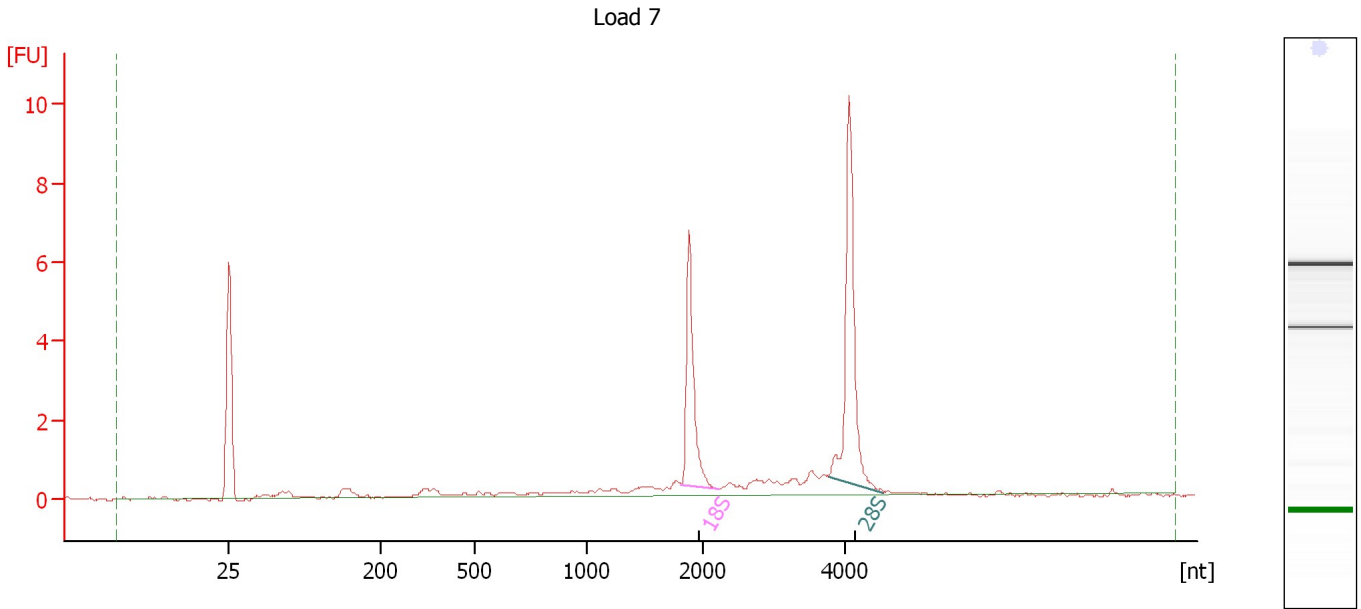
Fragment table for sample 6 : Control 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,788	2,101	17.1	21.5
28S	3,628	4,392	27.4	34.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Load 7

RNA Area:	25.0	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	20 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.80

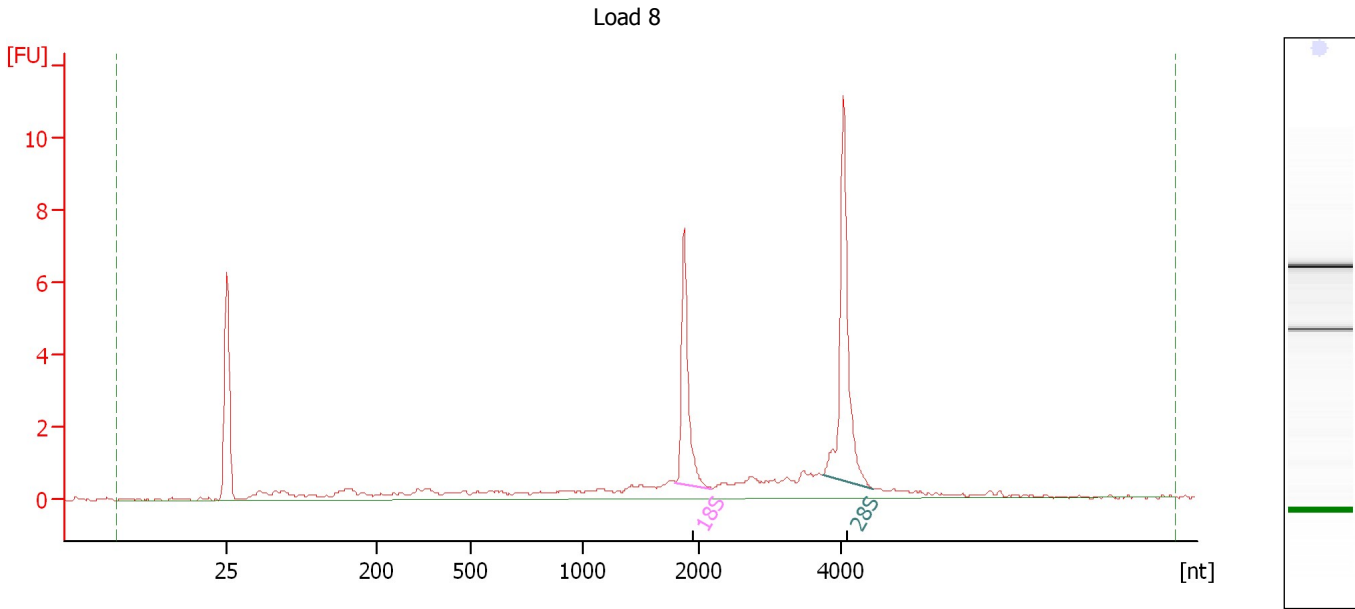
Fragment table for sample 7 : Load 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,813	2,233	5.2	20.9
28S	3,767	4,534	7.8	31.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Load 8

RNA Area:	35.6	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	28 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.50

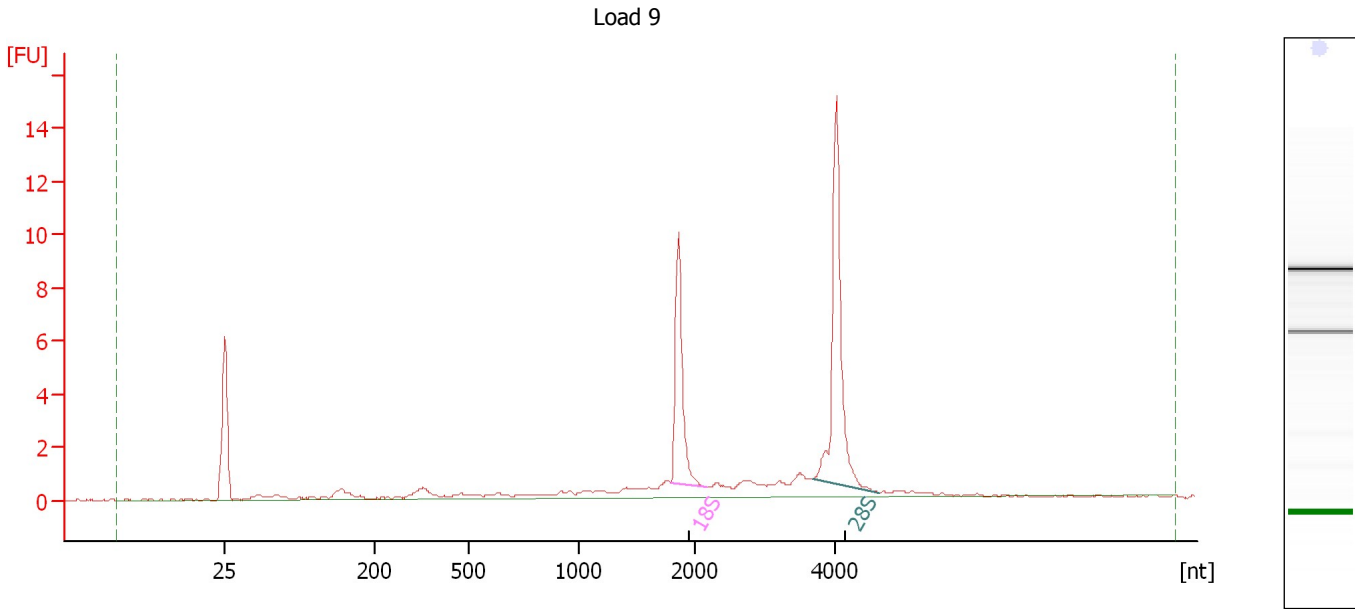
Fragment table for sample 8 : Load 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,801	2,171	5.6	15.8
28S	3,741	4,465	8.9	24.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Load 9

RNA Area:	40.8	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.80

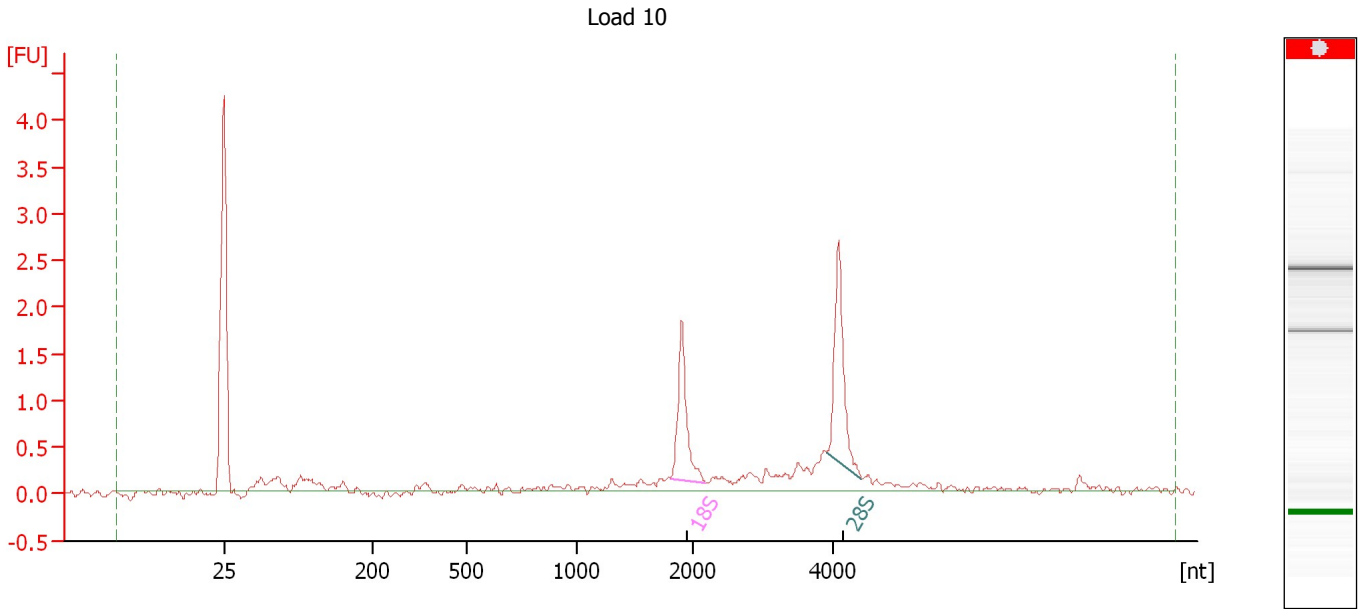
Fragment table for sample 9 : Load 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,789	2,168	7.5	18.3
28S	3,669	4,609	12.1	29.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
 Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Load 10

RNA Area:	10.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN N/A

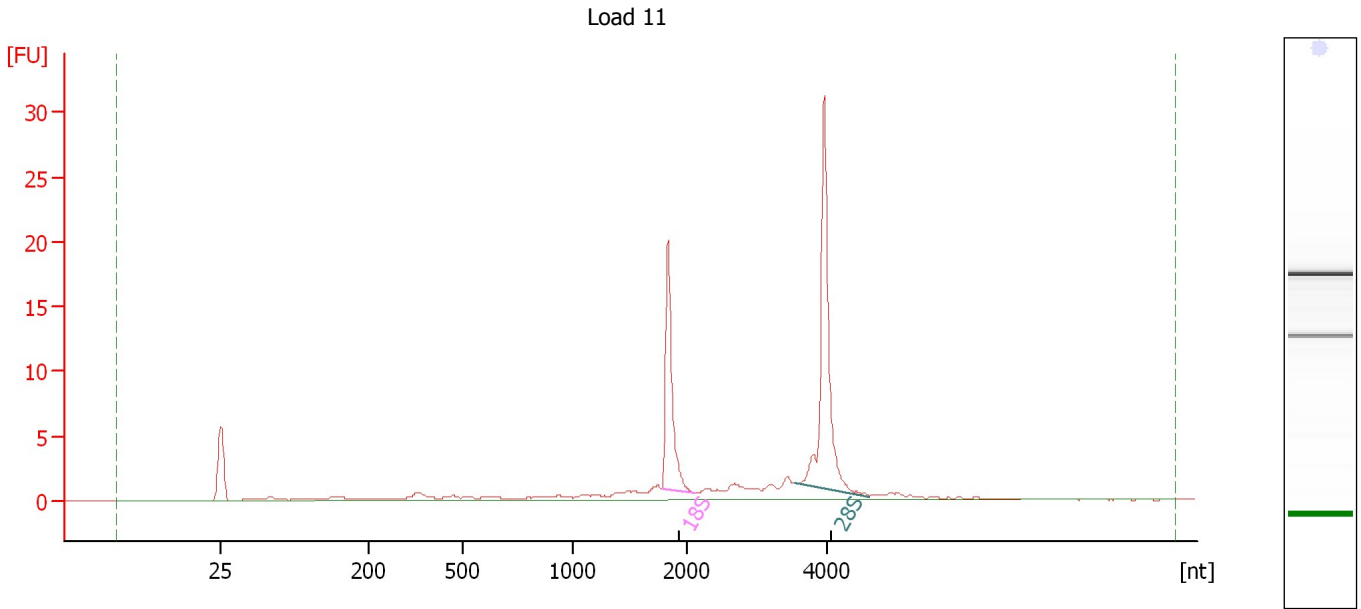
Fragment table for sample 10 : Load 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,806	2,182	1.7	15.6
28S	3,899	4,400	2.1	19.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Load 11

RNA Area: 77.0 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 61 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.20

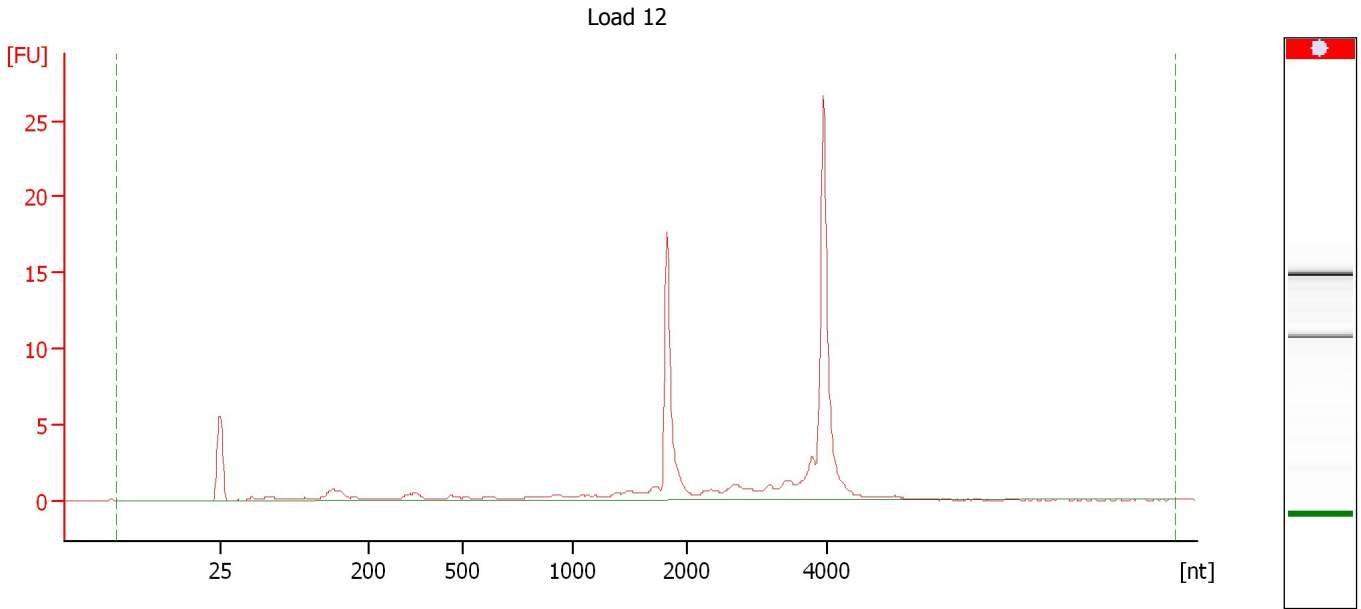
Fragment table for sample 11 : Load 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,783	2,118	15.5	20.1
28S	3,539	4,608	25.3	32.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Electropherogram Summary Continued ...



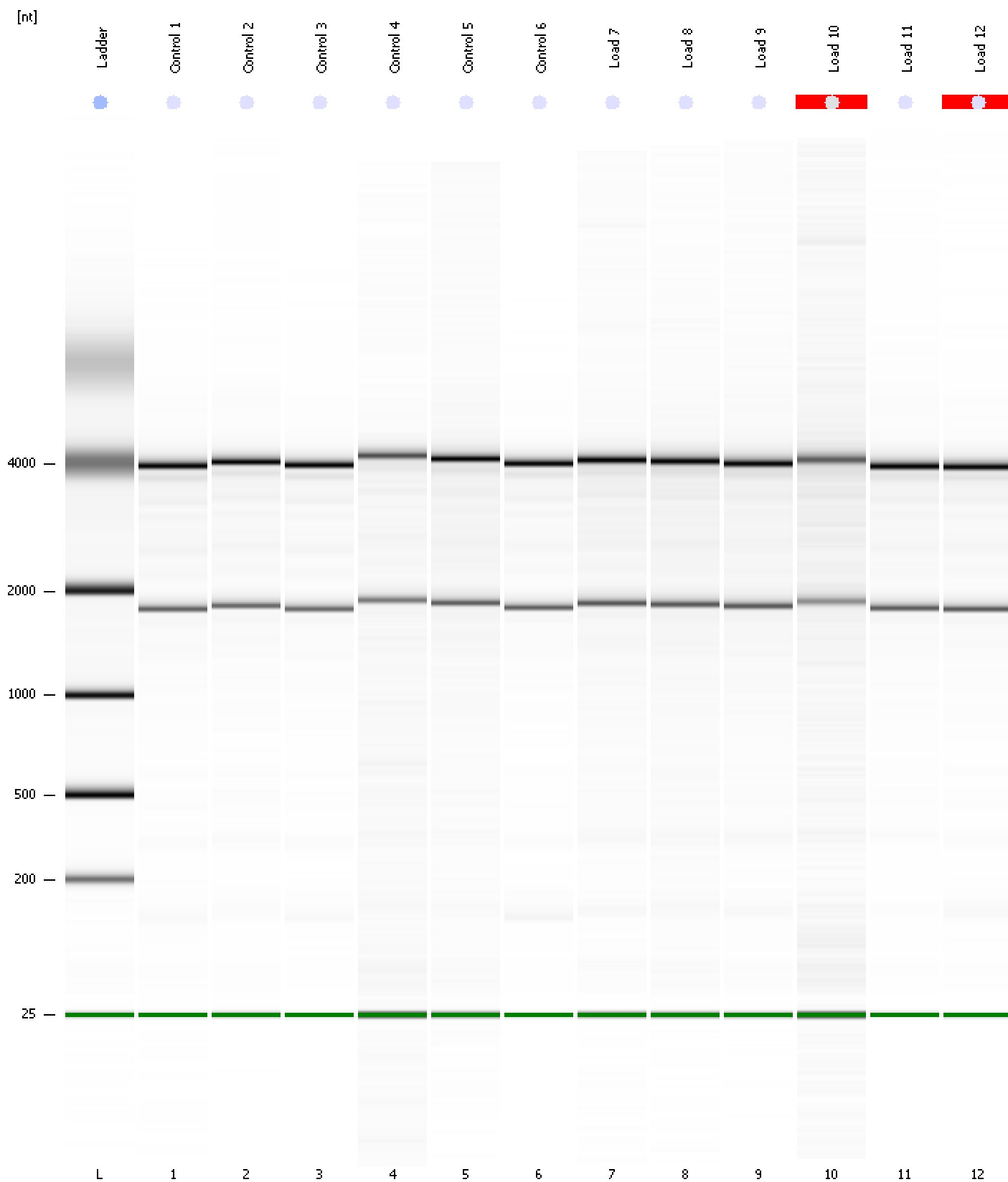
Overall Results for sample 12 : Load 12

RNA Area:	0.0	Result Flagging Color:	
RNA Integrity Number (RIN):	9.2 (B.02.08)	Result Flagging Label:	RIN: 9.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
Modified: 1/27/2015 2:25:49 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad

Created: 1/27/2015 2:01:57 PM
 Modified: 1/27/2015 2:25:49 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		1/27/2015 2:25:46 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-27\2015-01-27_003.xad)		Instrument	Run		1/27/2015 2:02:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/27/2015 2:02:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/27/2015 2:02:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/27/2015 2:02:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/27/2015 2:02:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/27/2015 2:02:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/27/2015 2:02:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1