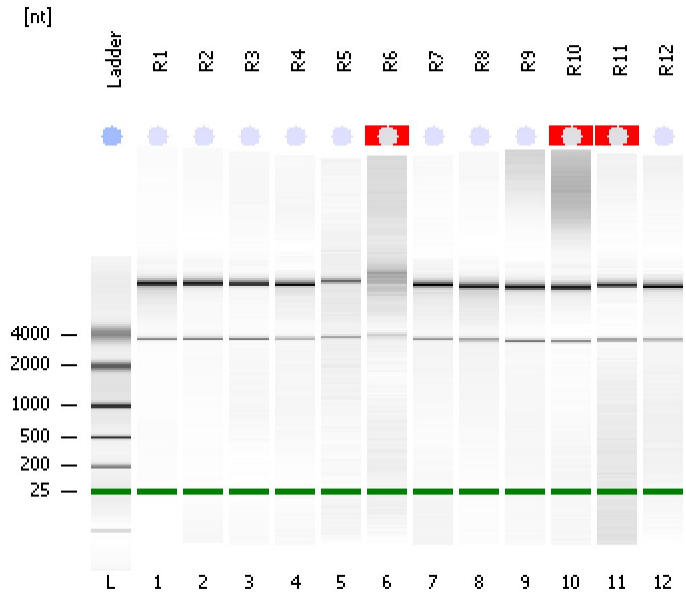


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electrophoresis File Run Summary



Instrument Information:

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

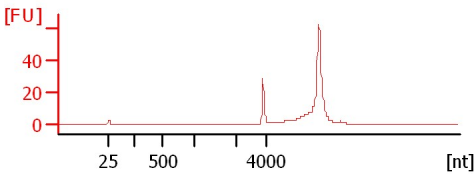
Assay Information:

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.

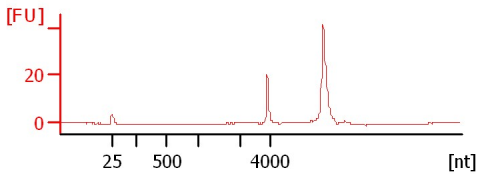
Chip Information:

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

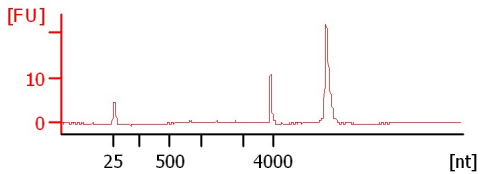
R1
HiSeq_905
RIN: 9.70



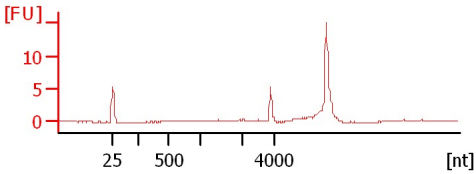
R2
HiSeq_905
RIN: 9.80



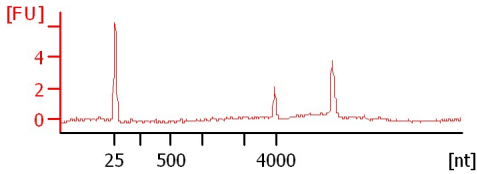
R3
HiSeq_905
RIN: 8.40



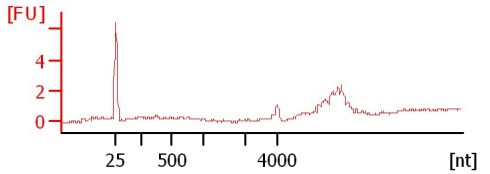
R4
HiSeq_905
RIN: 8.30



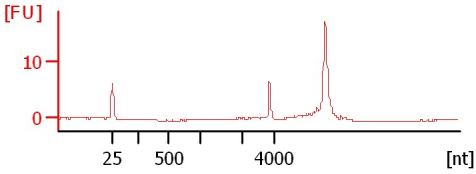
R5
HiSeq_905
RIN: 8.10



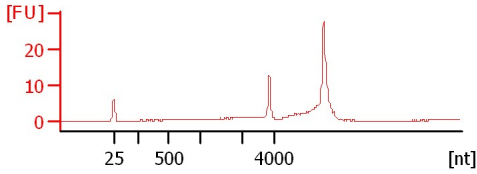
R6
HiSeq_905
RIN N/A



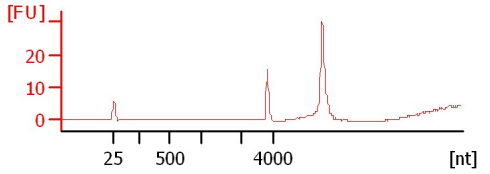
R7
HiSeq_905
RIN: 9.30



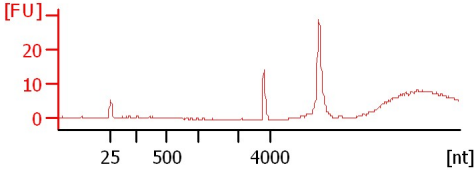
R8
HiSeq_905
RIN: 8.50



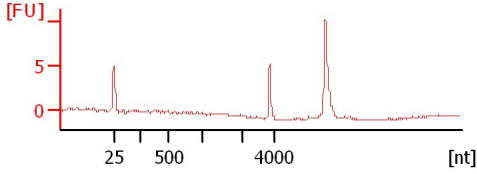
R9
HiSeq_905
RIN: 9.10



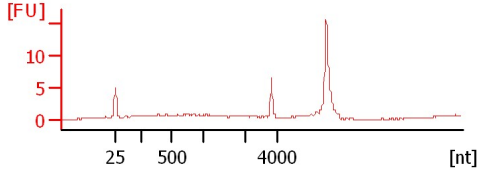
R10
HiSeq_905
RIN N/A



R11
HiSeq_905
RIN N/A



R12
HiSeq_905
RIN: 8.20



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
R1	HiSeq_905	✓	RIN: 9.70	
R2	HiSeq_905	✓	RIN: 9.80	
R3	HiSeq_905	✓	RIN: 8.40	
R4	HiSeq_905	✓	RIN: 8.30	
R5	HiSeq_905	✓	RIN: 8.10	
R6	HiSeq_905	✓	RIN N/A	
R7	HiSeq_905	✓	RIN: 9.30	
R8	HiSeq_905	✓	RIN: 8.50	
R9	HiSeq_905	✓	RIN: 9.10	
R10	HiSeq_905	✓	RIN N/A	
R11	HiSeq_905	✓	RIN N/A	
R12	HiSeq_905	✓	RIN: 8.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 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

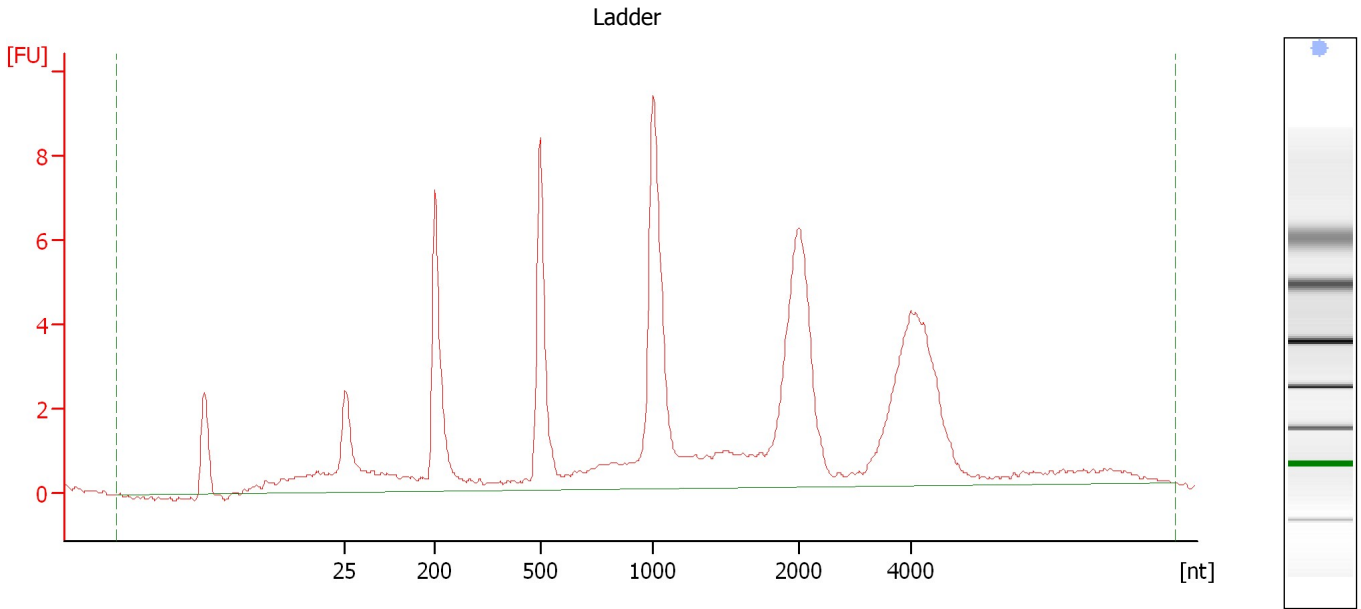
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary



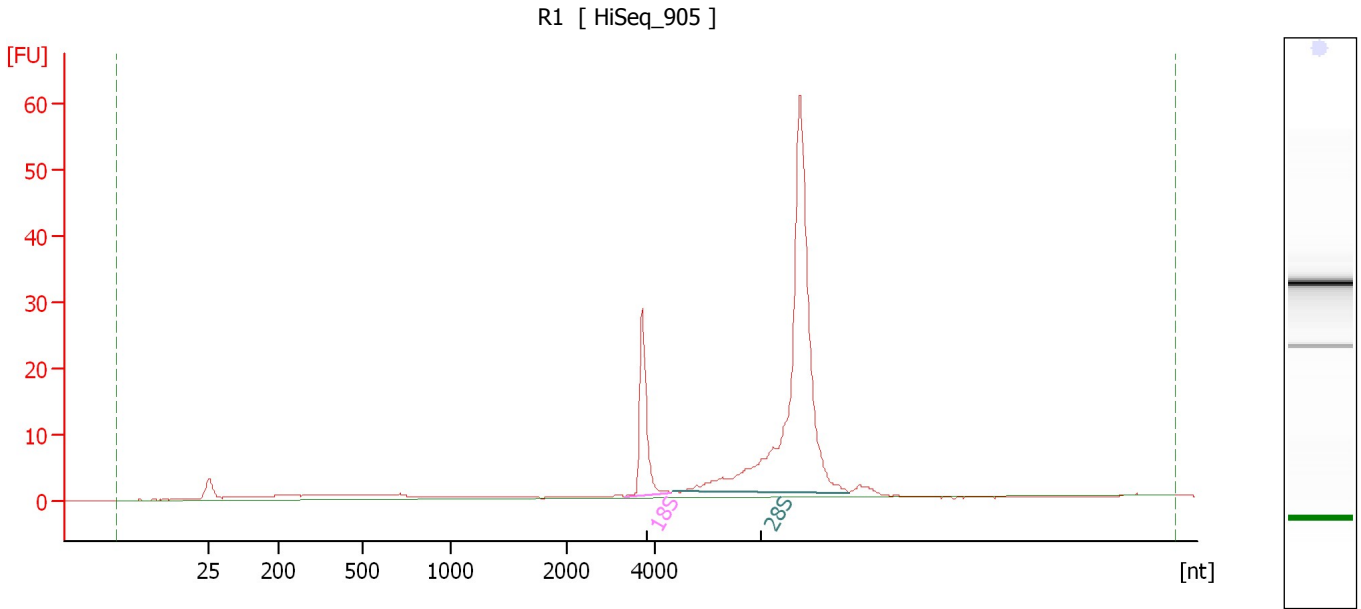
Overall Results for Ladder

RNA Area:	96.9	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\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : R1

RNA Area:	196.5	RNA Integrity Number (RIN):	9.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	304 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	5.5	Result Flagging Label:	RIN: 9.70

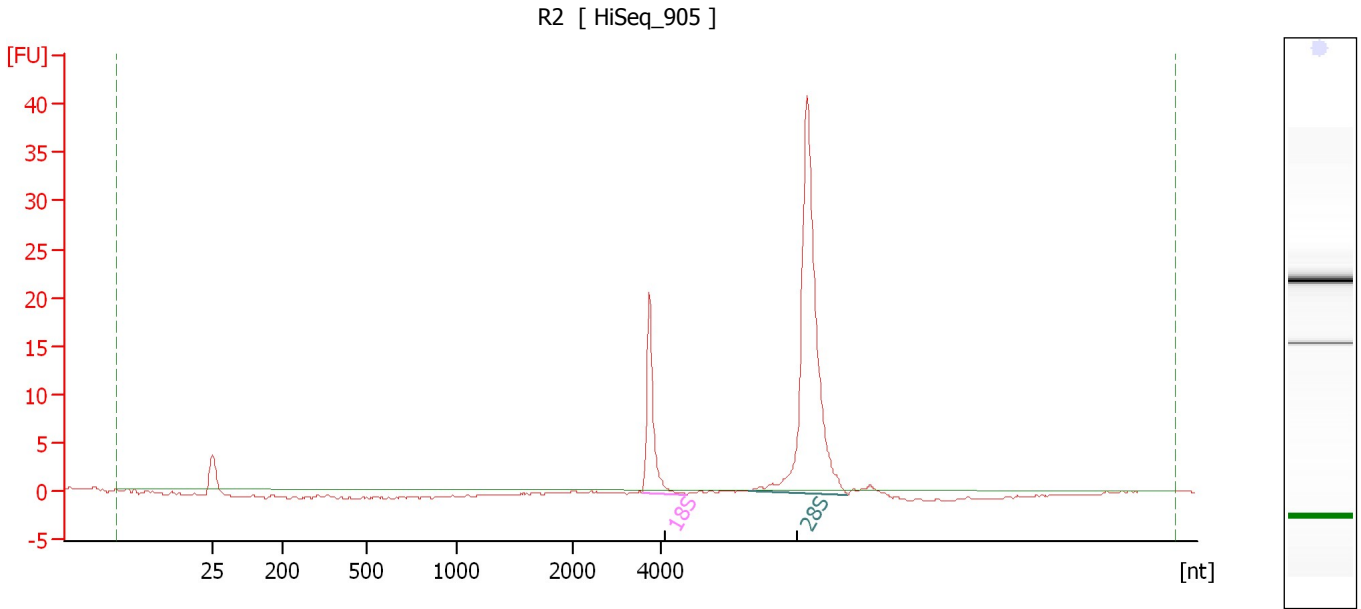
Fragment table for sample 1 : R1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,319	4,393	22.2	11.3
28S	4,441	8,468	121.7	61.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : R2

RNA Area:	76.9	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	119 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.8	Result Flagging Label:	RIN: 9.80

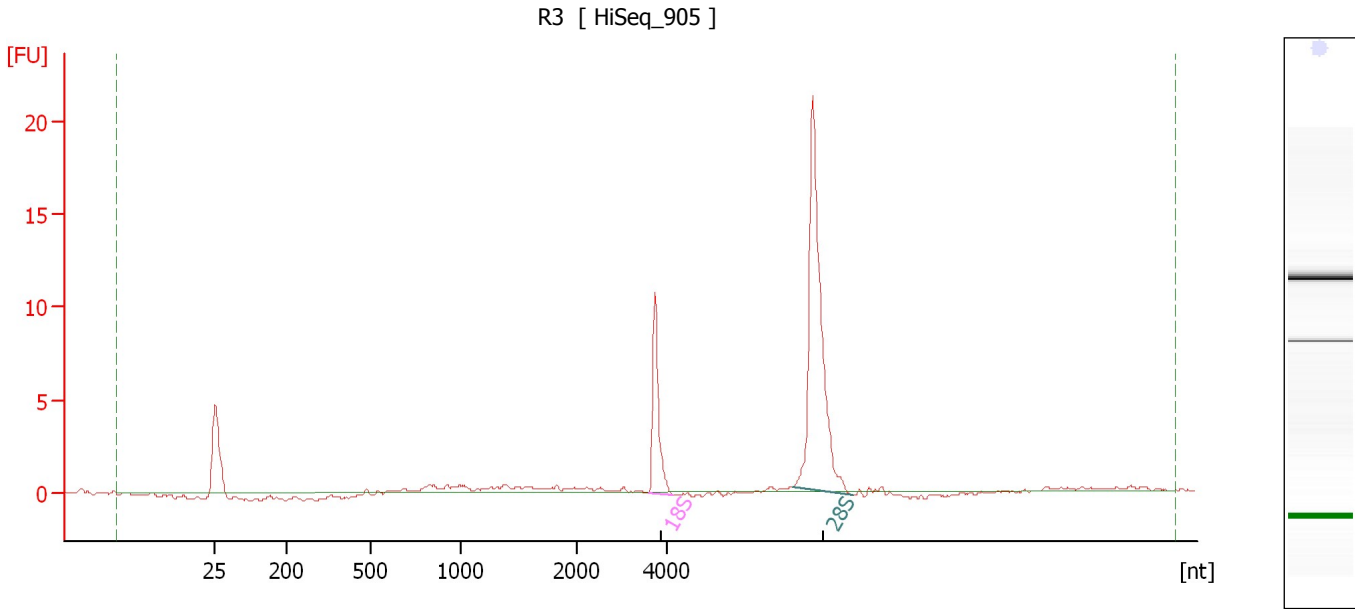
Fragment table for sample 2 : R2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,599	4,617	16.6	21.6
28S	6,024	8,255	63.2	82.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : R3

RNA Area: 40.6 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 63 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 3.3 Result Flagging Label: RIN: 8.40

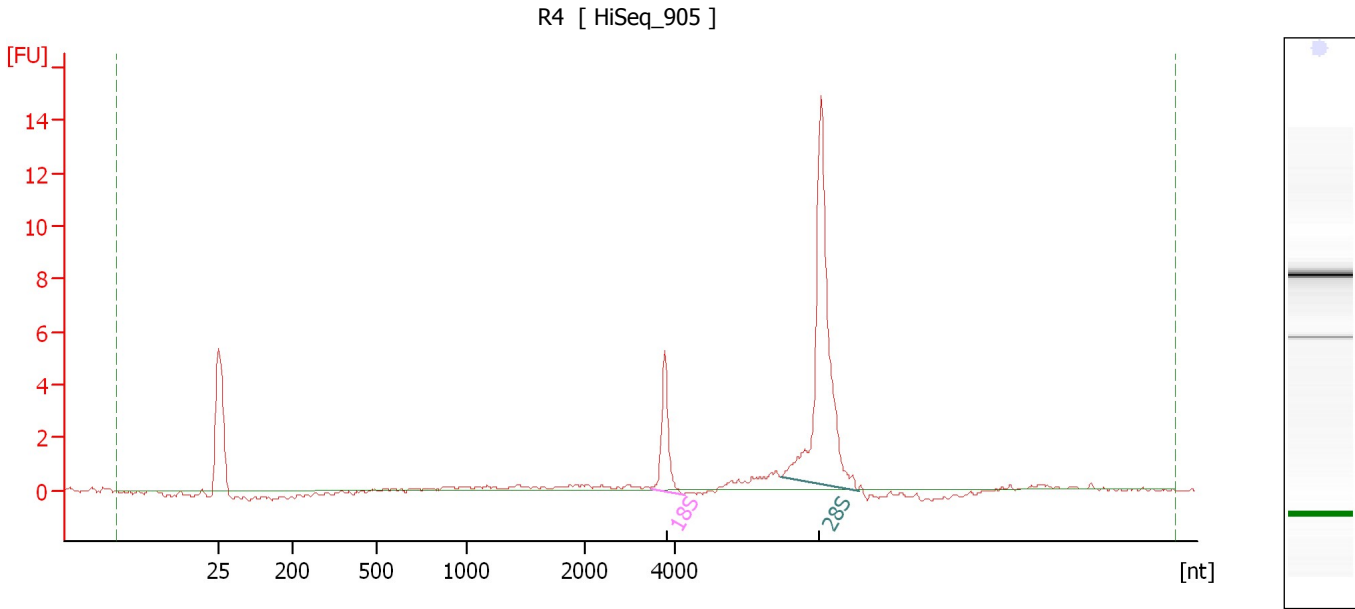
Fragment table for sample 3 : R3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,610	4,165	7.9	19.6
28S	6,864	8,213	26.1	64.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : R4

RNA Area:	30.2	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	47 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.5	Result Flagging Label:	RIN: 8.30

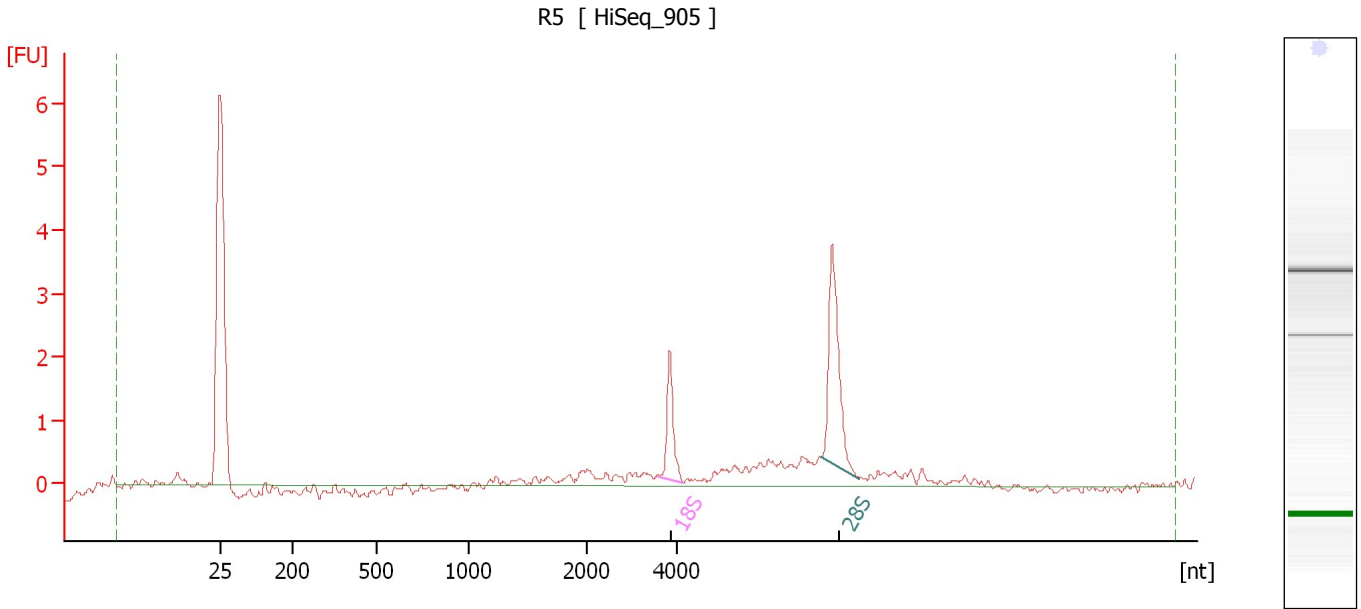
Fragment table for sample 4 : R4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,458	4,223	4.2	13.9
28S	6,374	8,119	19.1	63.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : R5

RNA Area:	14.2	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 8.10

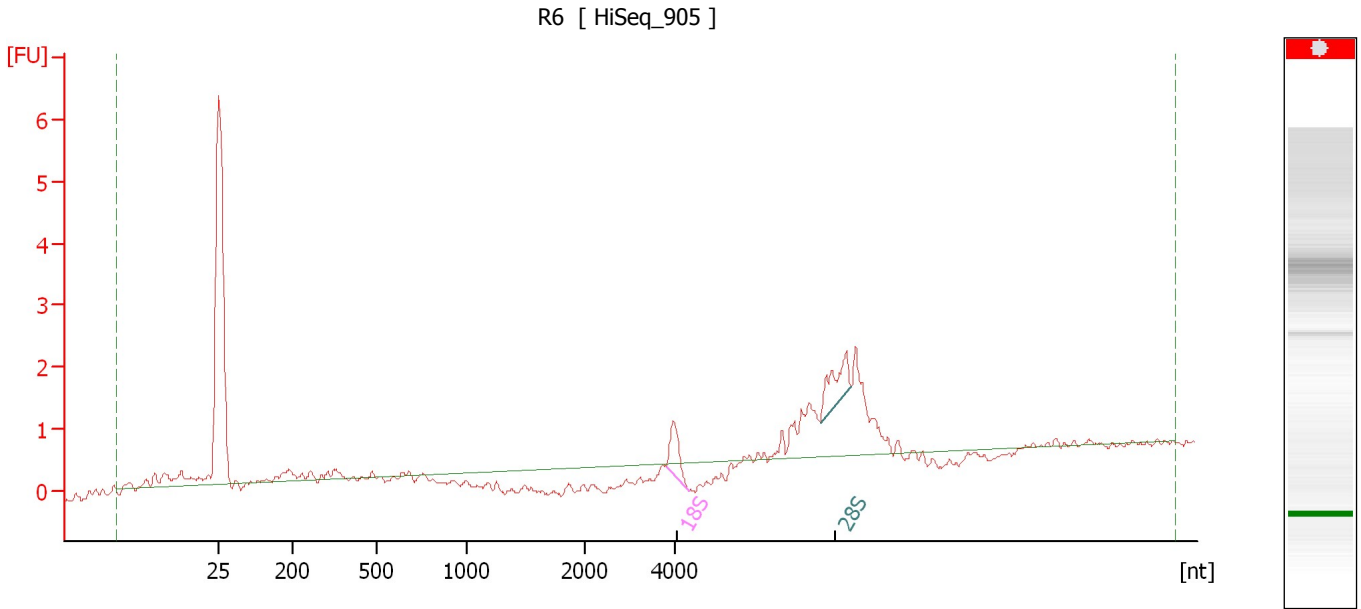
Fragment table for sample 5 : R5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,629	4,130	1.5	10.8
28S	7,231	8,089	3.4	24.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
 Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : R6

RNA Area:	12.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	19 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN N/A

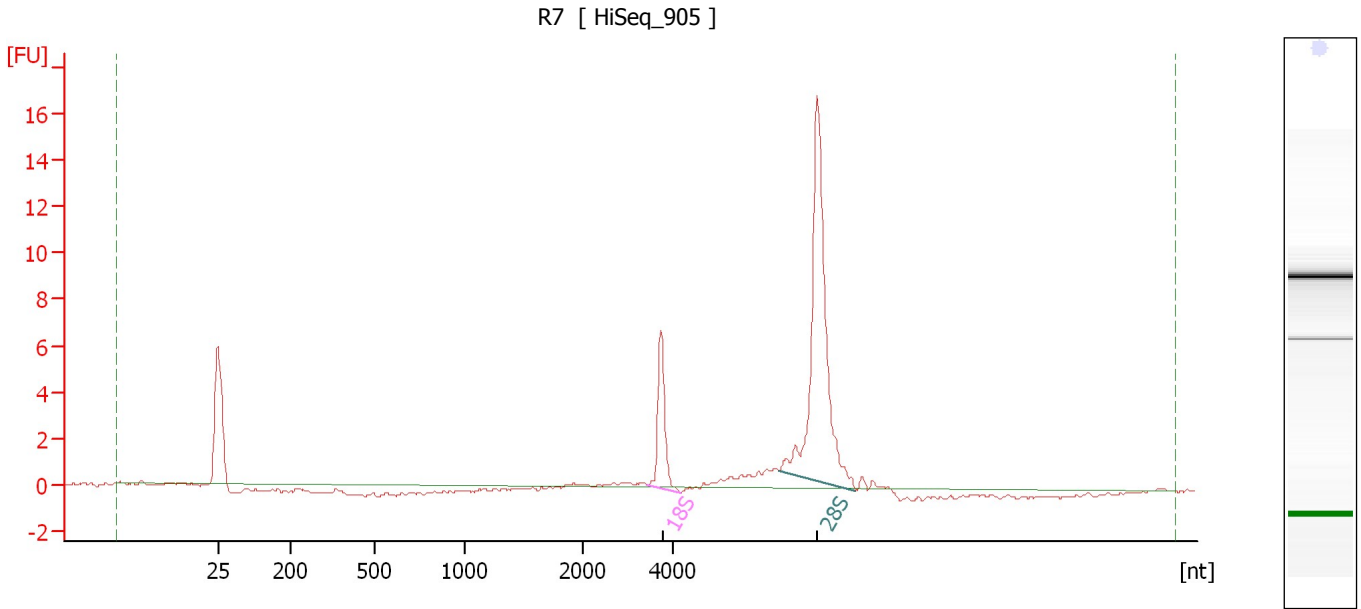
Fragment table for sample 6 : R6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,817	4,319	0.9	7.5
28S	7,258	7,951	1.2	10.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : R7

RNA Area:	34.7	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	54 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.4	Result Flagging Label:	RIN: 9.30

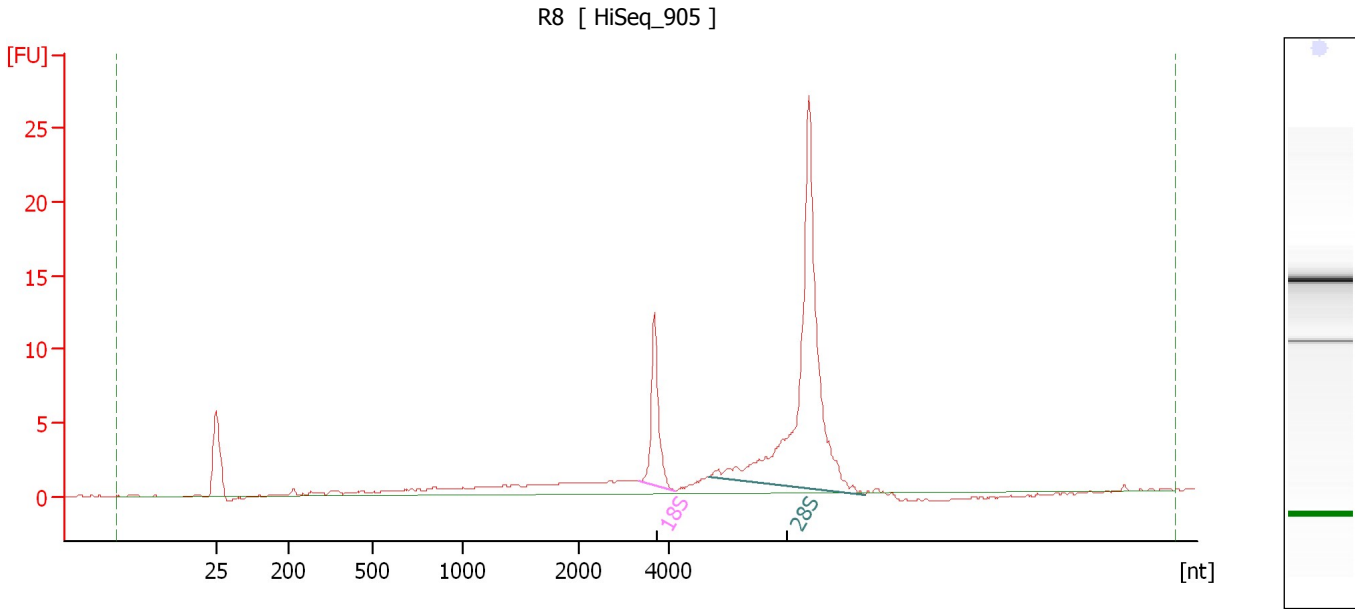
Fragment table for sample 7 : R7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,406	4,172	5.3	15.4
28S	6,400	8,100	23.6	67.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : R8

RNA Area:	90.9	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	141 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.9	Result Flagging Label:	RIN: 8.50

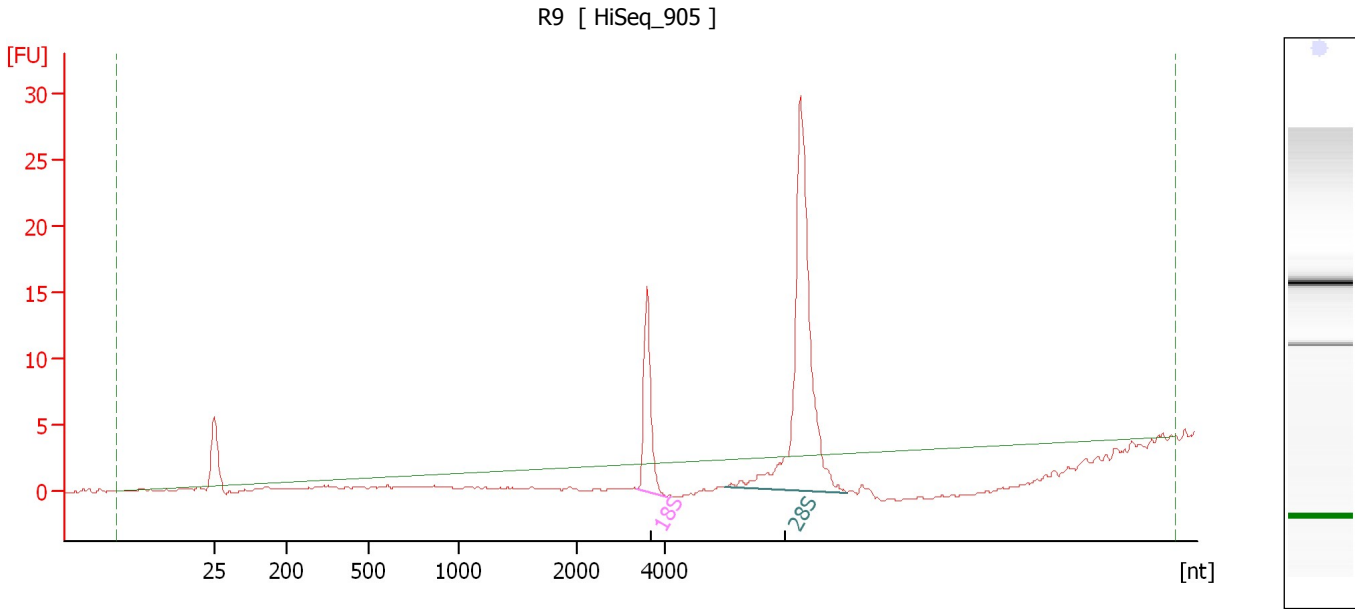
Fragment table for sample 8 : R8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,350	4,143	10.2	11.2
28S	4,913	8,424	50.0	55.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : R9

RNA Area:	41.0	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	63 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.9	Result Flagging Label:	RIN: 9.10

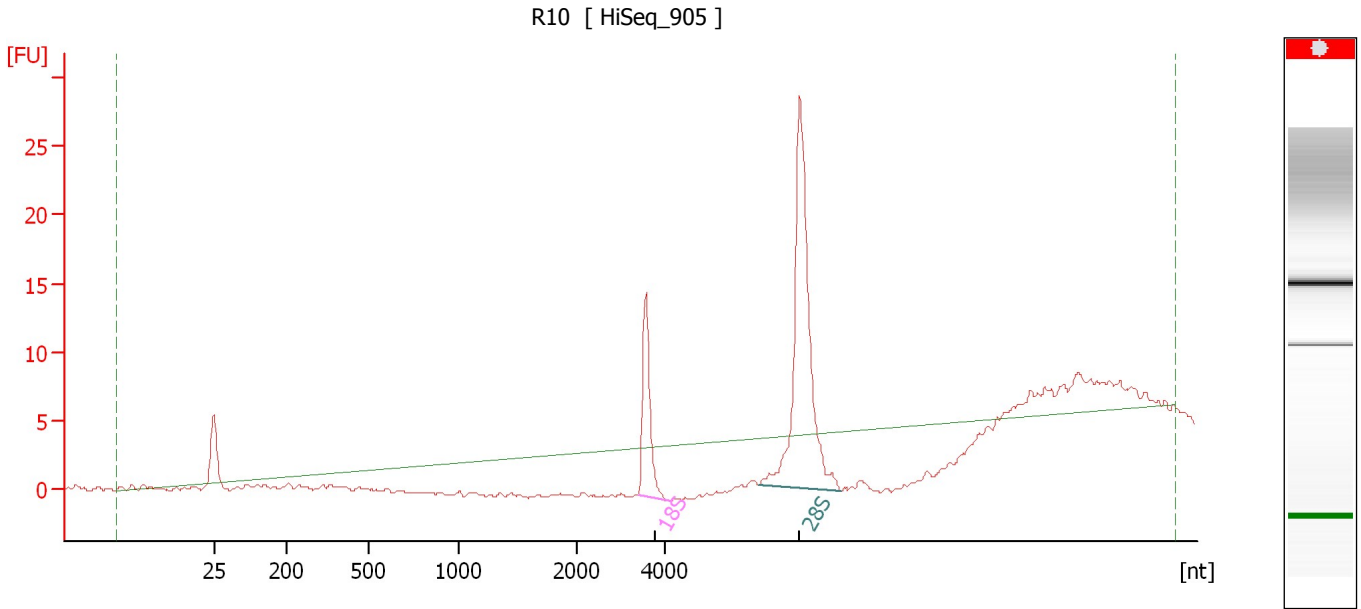
Fragment table for sample 9 : R9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,389	4,065	12.4	30.3
28S	5,369	8,122	47.8	116.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
 Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : R10

RNA Area:	52.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	81 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.5	Result Flagging Label:	RIN N/A

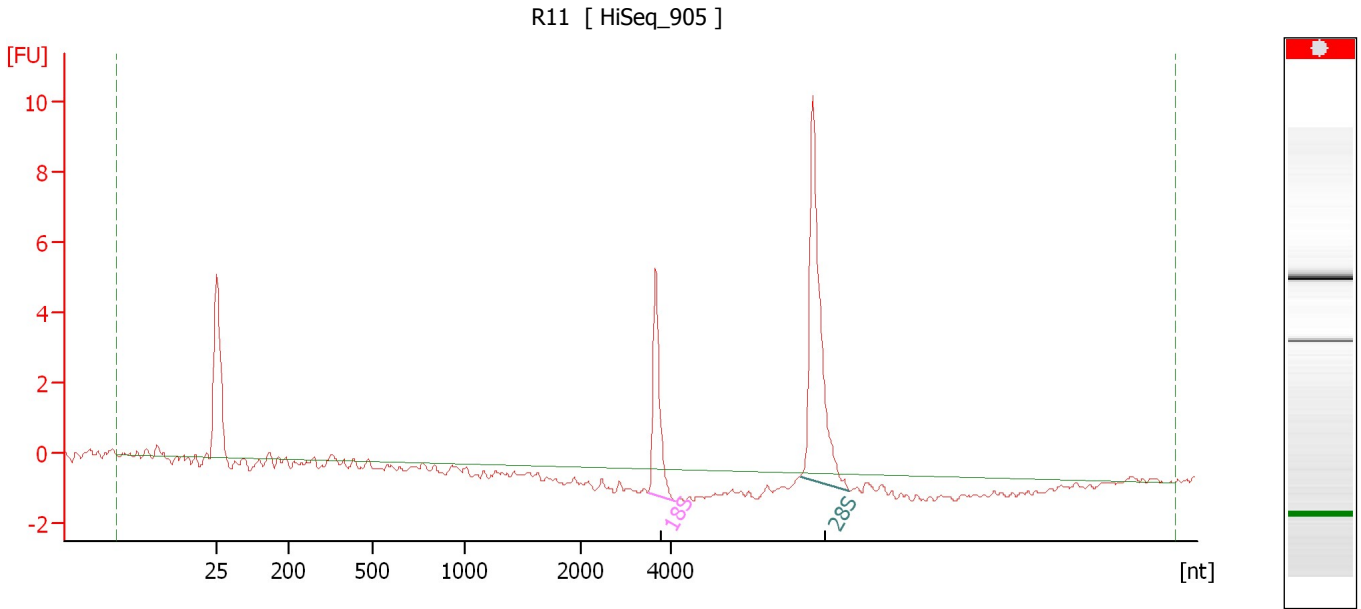
Fragment table for sample 10 : R10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,413	4,138	12.6	24.0
28S	6,118	8,002	43.6	83.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
 Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : R11

RNA Area:	16.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	25 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN N/A

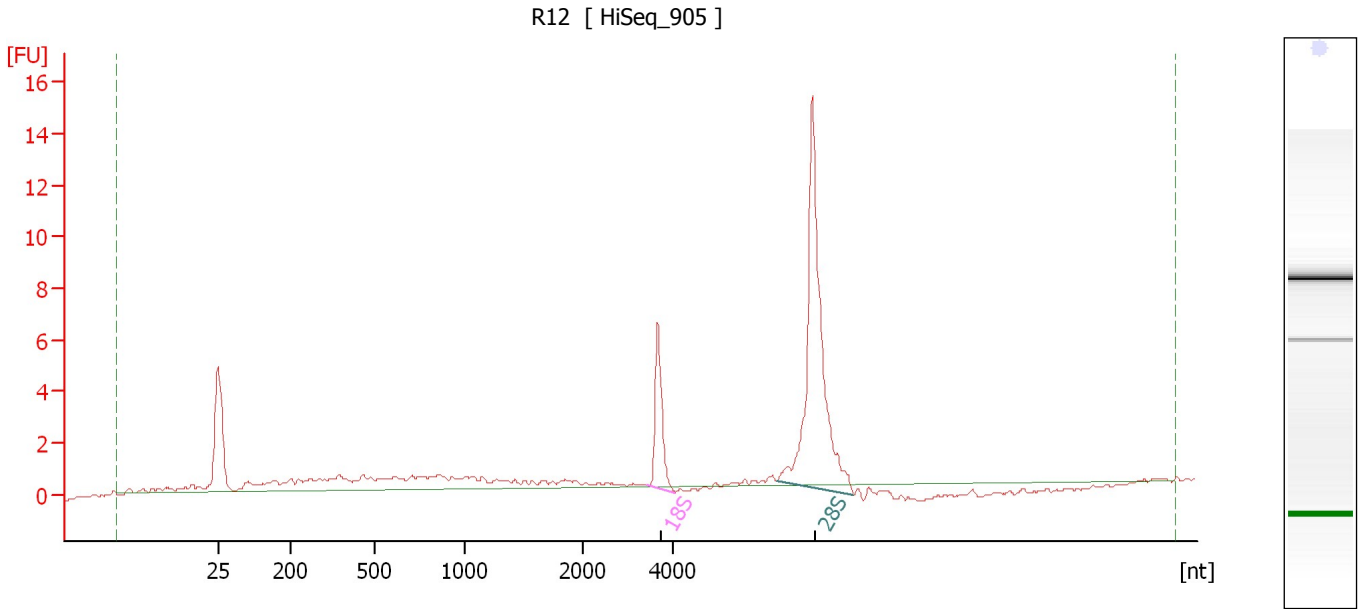
Fragment table for sample 11 : R11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,498	4,098	5.2	32.3
28S	6,930	8,034	12.1	75.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : R12

RNA Area:	47.3	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	73 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.2	Result Flagging Label:	RIN: 8.20

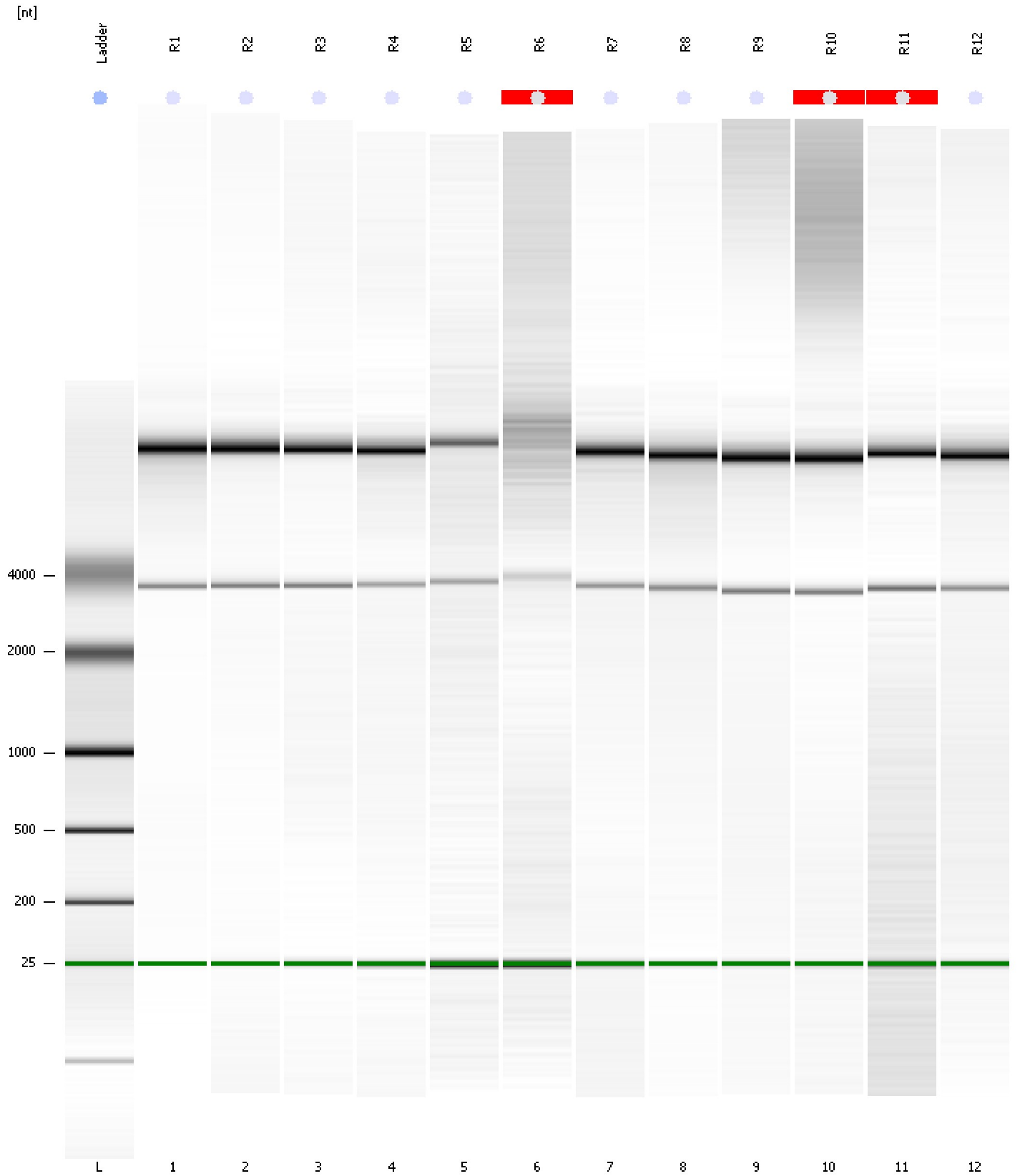
Fragment table for sample 12 : R12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,406	4,077	5.1	10.8
28S	6,352	8,052	21.6	45.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
Modified: 3/27/2017 3:27:34 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad

Created: 3/27/2017 3:03:39 PM
 Modified: 3/27/2017 3:27:34 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		3/27/2017 3:27:27 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-03-27\2017-03-27_001.xad)		Instrument	Run		3/27/2017 3:03:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/27/2017 3:03:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/27/2017 3:03:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/27/2017 3:03:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/27/2017 3:03:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/27/2017 3:03:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/27/2017 3:03:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1