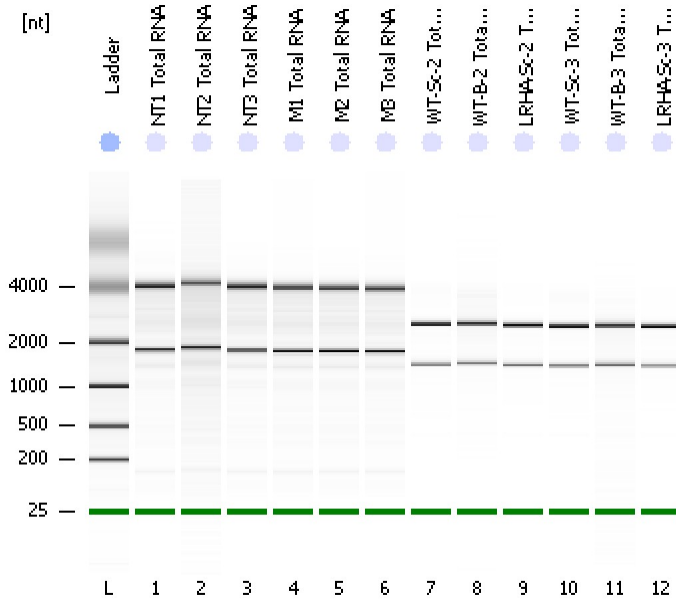


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electrophoresis File Run Summary

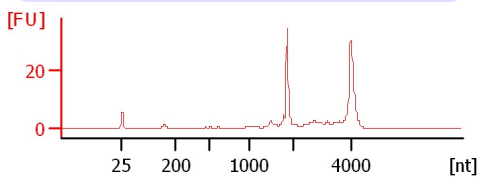


Instrument Information:
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 Serial#: DE13701086 Type: G2938B

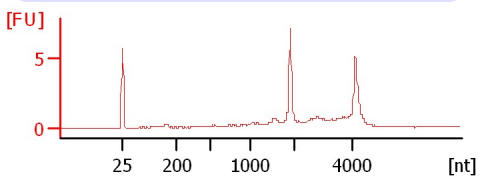
Assay Information:
 Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
 Assay Class: Eukaryote Total RNA Nano
 Version: 2.6
 Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
 © Copyright 2003 - 2009 Agilent Technologies,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

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

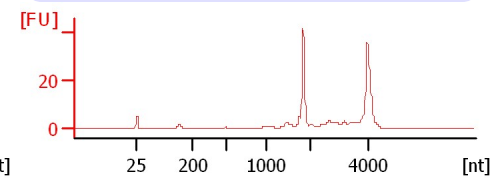
NT1 Total RNA
RIN: 8.90



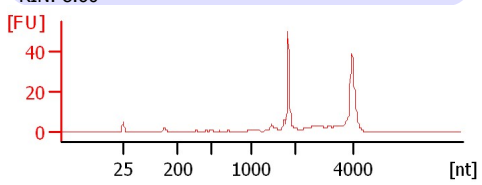
NT2 Total RNA
RIN: 8



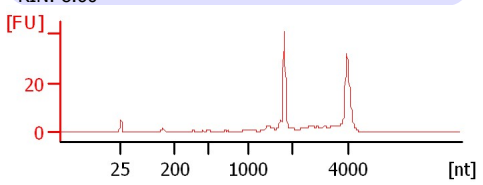
NT3 Total RNA
RIN: 8.80



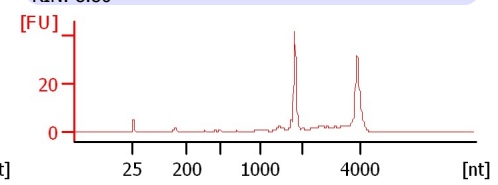
M1 Total RNA
RIN: 8.60



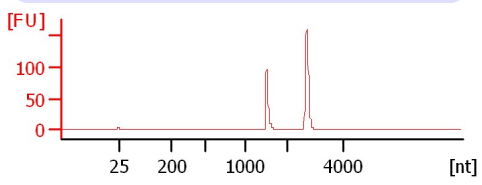
M2 Total RNA
RIN: 8.60



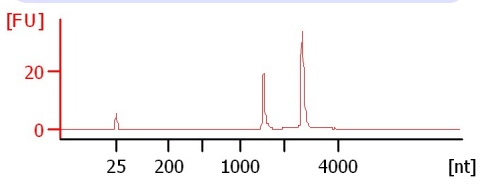
M3 Total RNA
RIN: 8.80



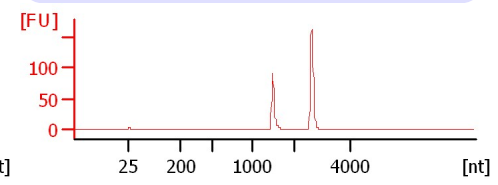
WT-Sc-2 Total RNA
RIN: 10



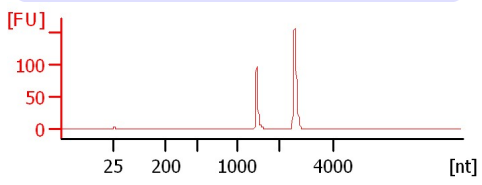
WT-B-2 Total RNA
RIN: 9.90



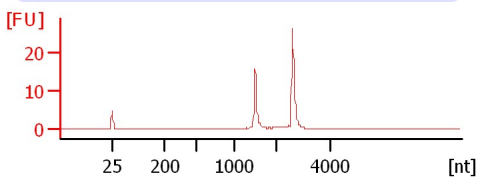
LRHA-Sc-2 Total RNA
RIN: 10



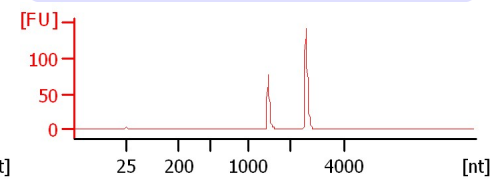
WT-Sc-3 Total RNA
RIN: 10



WT-B-3 Total RNA
RIN: 9.90



LRHA-Sc-3 Total RNA
RIN: 9.90



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
NT1 Total RNA		✓	RIN: 8.90	
NT2 Total RNA		✓	RIN:8	
NT3 Total RNA		✓	RIN: 8.80	
M1 Total RNA		✓	RIN: 8.60	
M2 Total RNA		✓	RIN: 8.60	
M3 Total RNA		✓	RIN: 8.80	
WT-Sc-2 Total RNA		✓	RIN:10	
WT-B-2 Total RNA		✓	RIN: 9.90	
LRHA-Sc-2 Total RNA		✓	RIN:10	
WT-Sc-3 Total RNA		✓	RIN:10	
WT-B-3 Total RNA		✓	RIN: 9.90	
LRHA-Sc-3 Total RNA		✓	RIN: 9.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 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

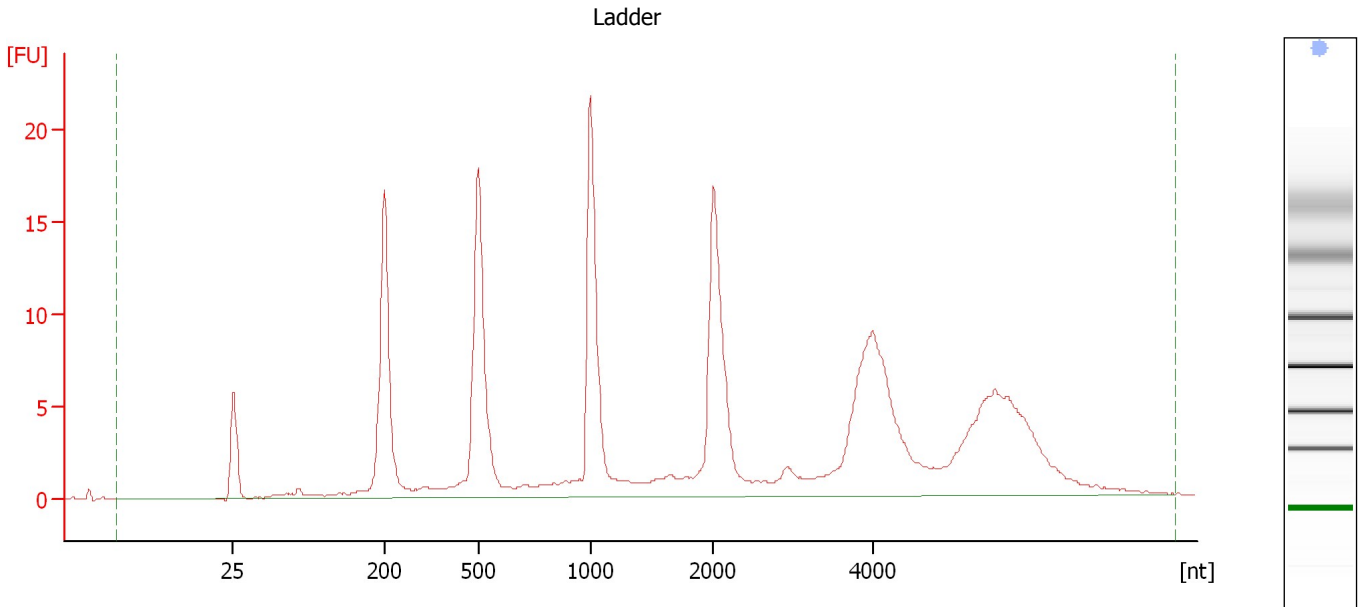
Ladder

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\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary



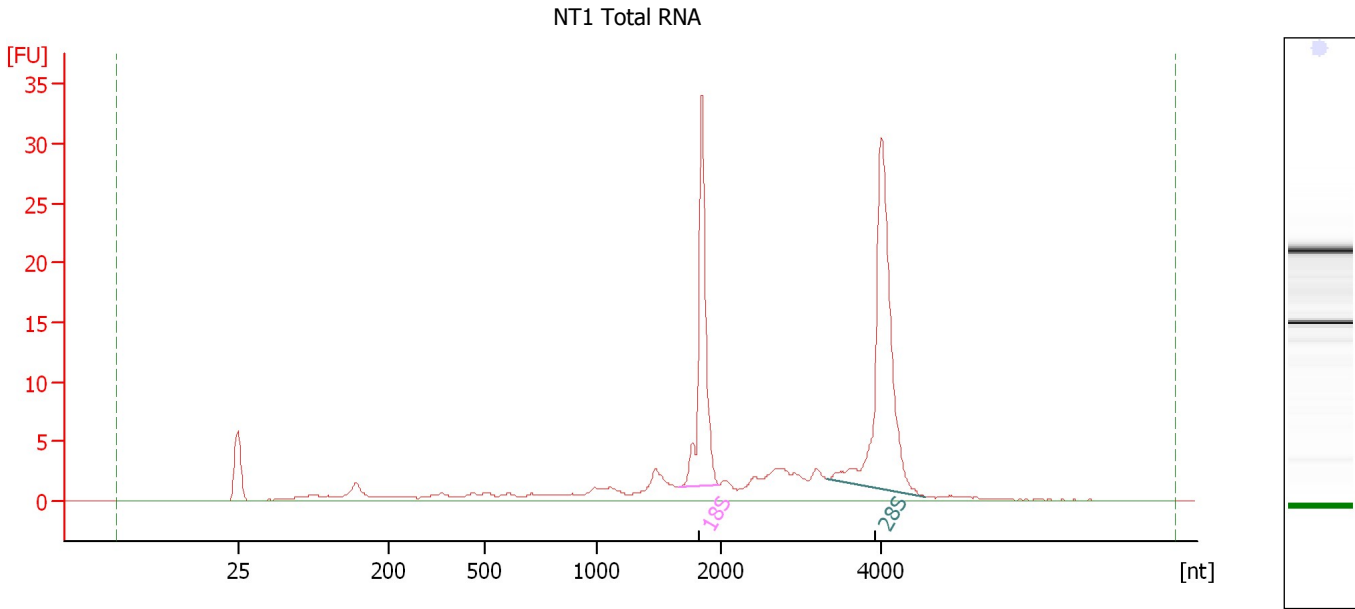
Overall Results for Ladder

RNA Area:	211.8	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\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : NT1 Total RNA

RNA Area:	136.4	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	97 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.90

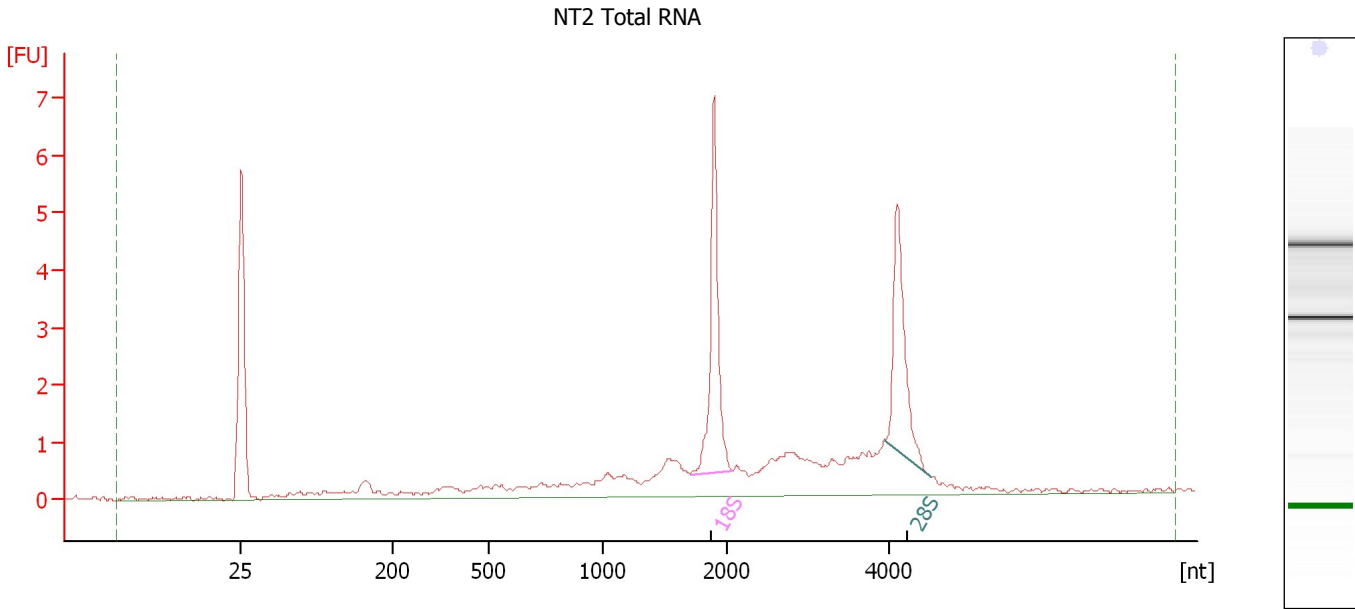
Fragment table for sample 1 : NT1 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,986	27.8	20.4
28S	3,323	4,548	43.1	31.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NT2 Total RNA

RNA Area: 35.4 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 25 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN:8

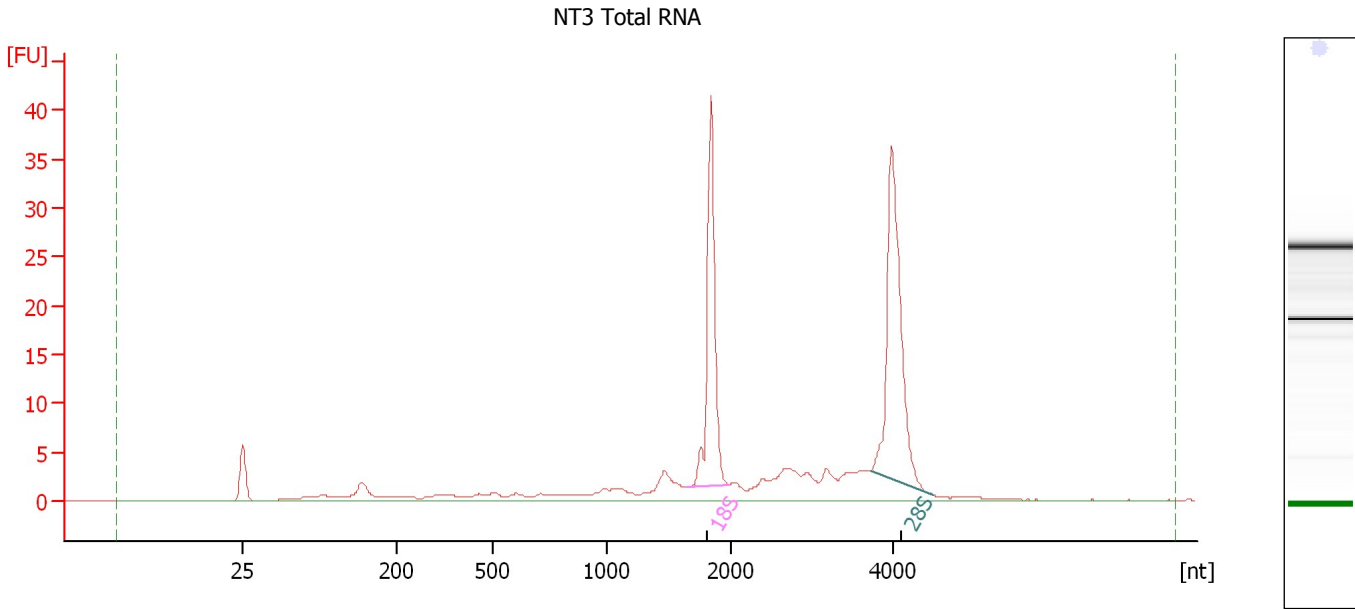
Fragment table for sample 2 : NT2 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,062	5.7	16.2
28S	3,955	4,511	4.5	12.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NT3 Total RNA

RNA Area:	160.4	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	114 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.80

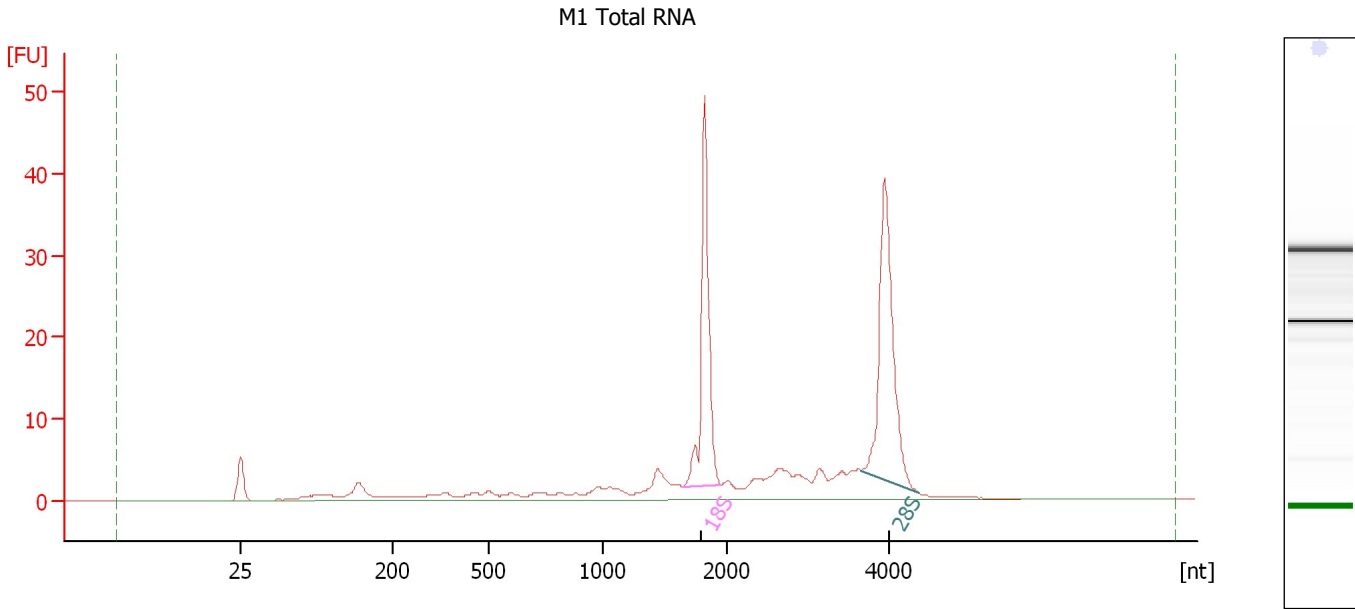
Fragment table for sample 3 : NT3 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	1,973	33.5	20.9
28S	3,712	4,490	45.5	28.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : M1 Total RNA

RNA Area: 185.4 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 131 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.60

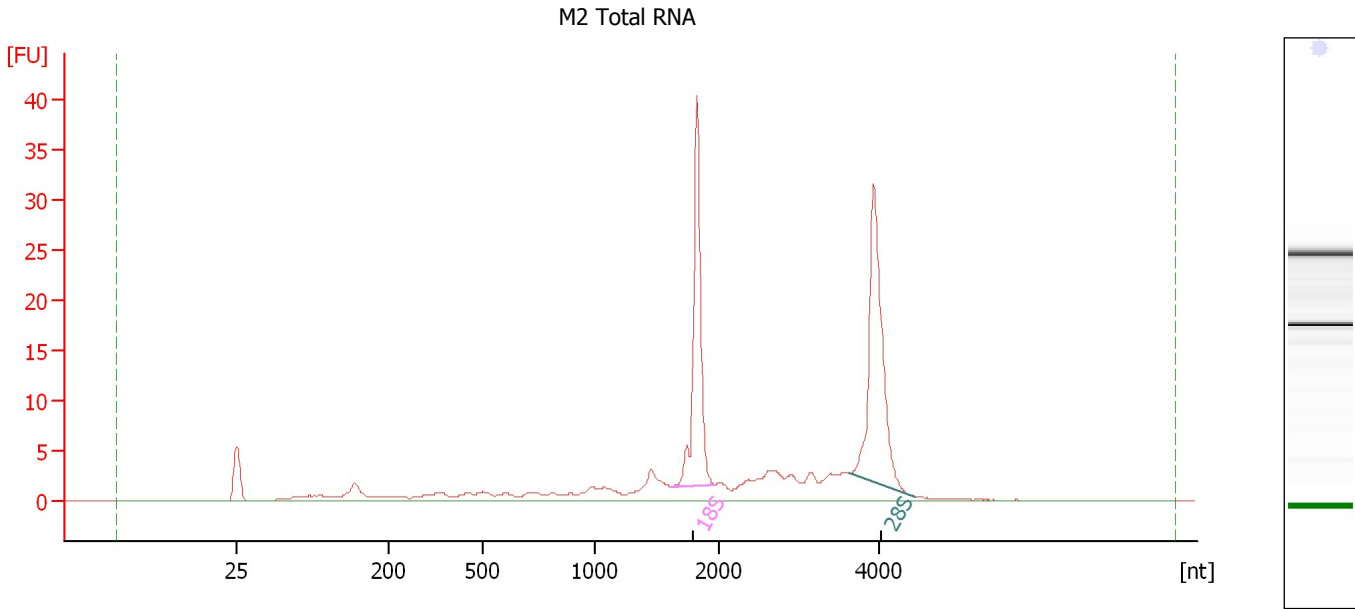
Fragment table for sample 4 : M1 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,945	39.1	21.1
28S	3,650	4,378	48.0	25.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : M2 Total RNA

RNA Area: 155.1 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 110 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.60

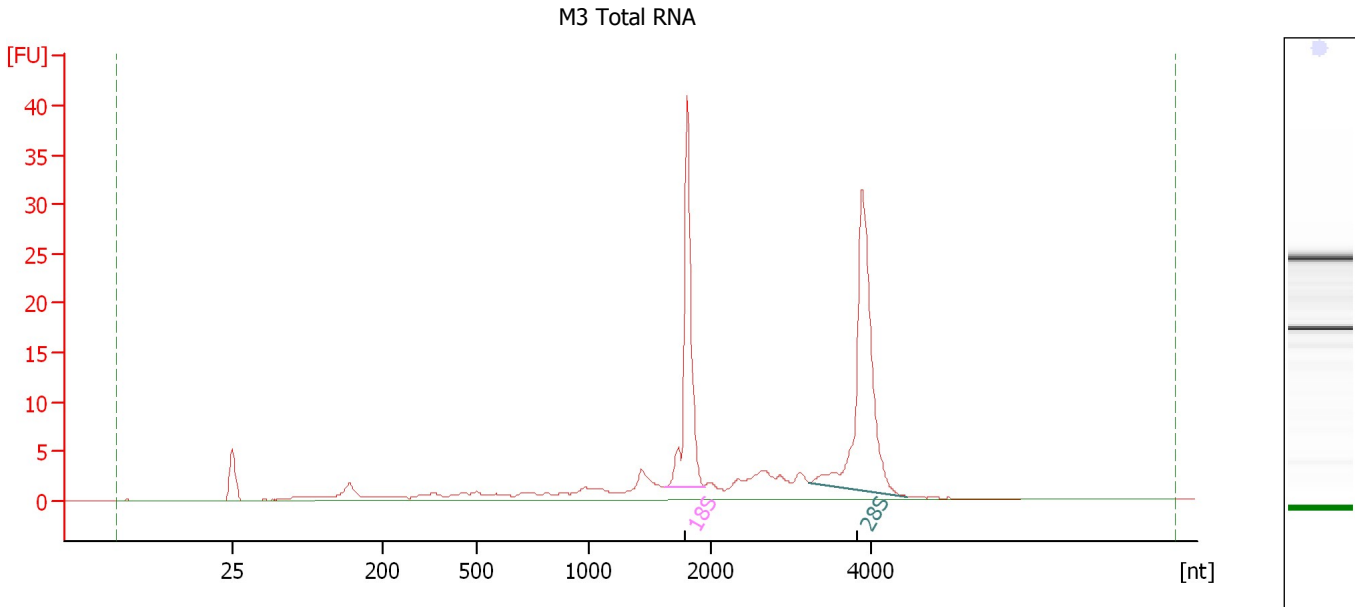
Fragment table for sample 5 : M2 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,613	1,959	32.9	21.2
28S	3,631	4,432	38.2	24.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
 Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : M3 Total RNA

RNA Area: 146.8 RNA Integrity Number (RIN): 8.8 (B.02.08)
 RNA Concentration: 104 ng/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.80

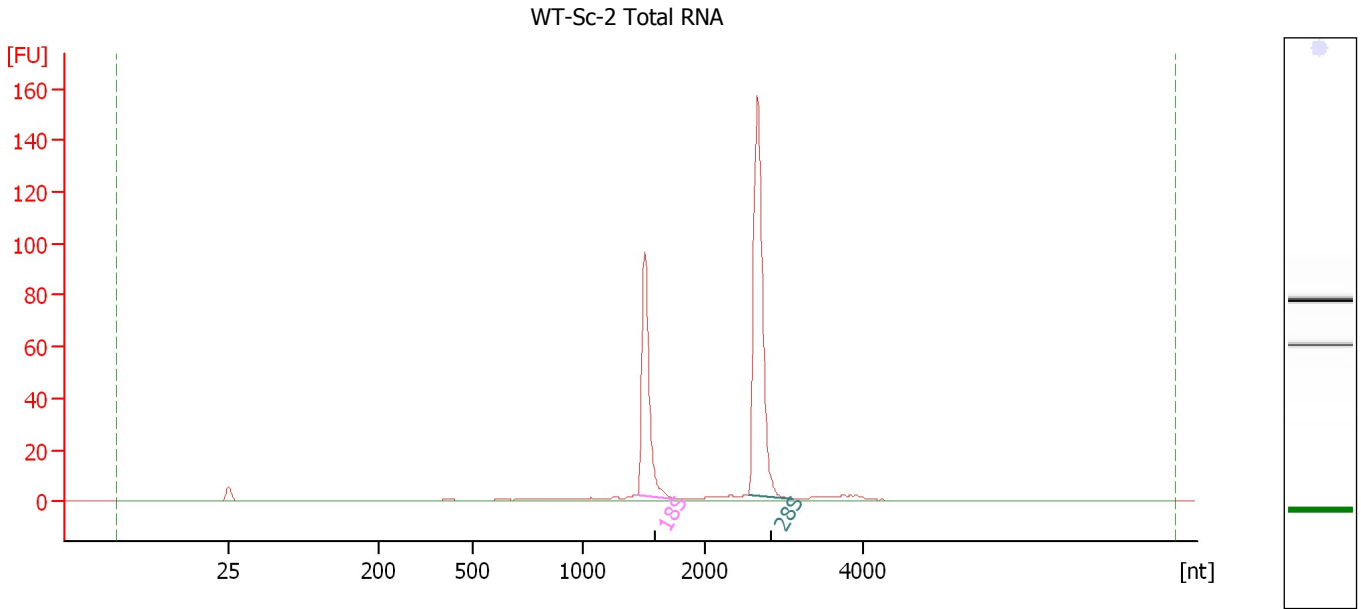
Fragment table for sample 6 : M3 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,946	32.6	22.2
28S	3,236	4,473	45.5	31.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WT-Sc-2 Total RNA

RNA Area: 288.8 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 205 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:10

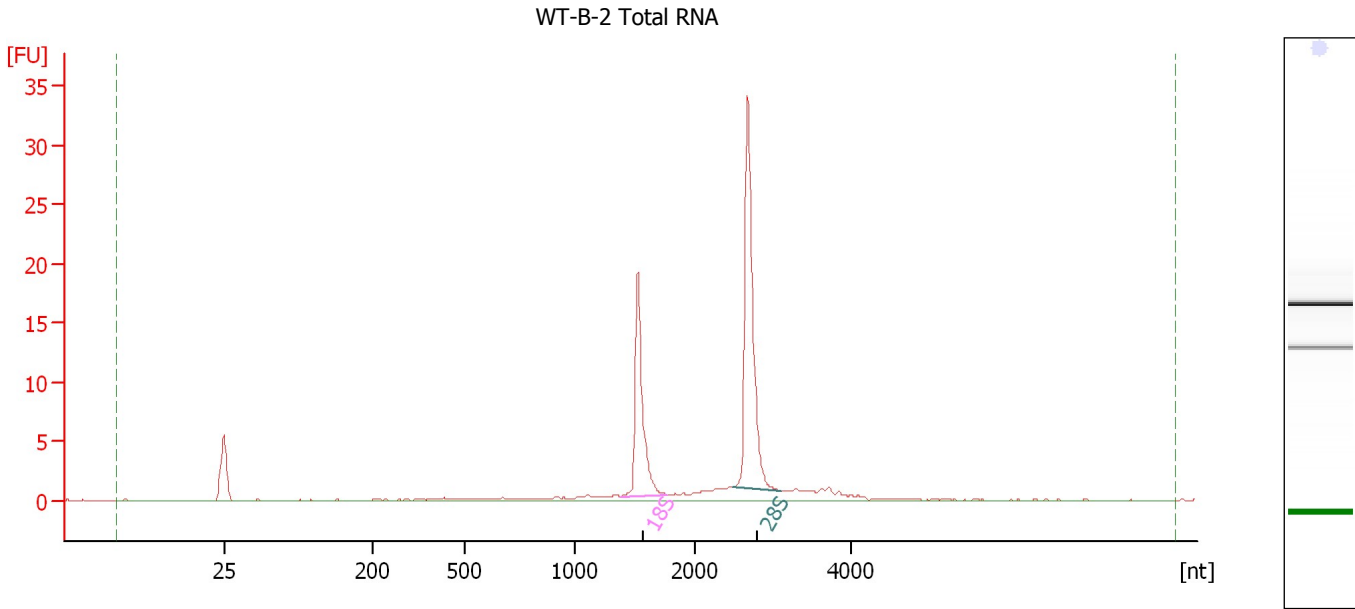
Fragment table for sample 7 : WT-Sc-2 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,444	1,742	79.0	27.3
28S	2,549	3,117	148.9	51.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : WT-B-2 Total RNA

RNA Area: 71.2 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 50 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.90

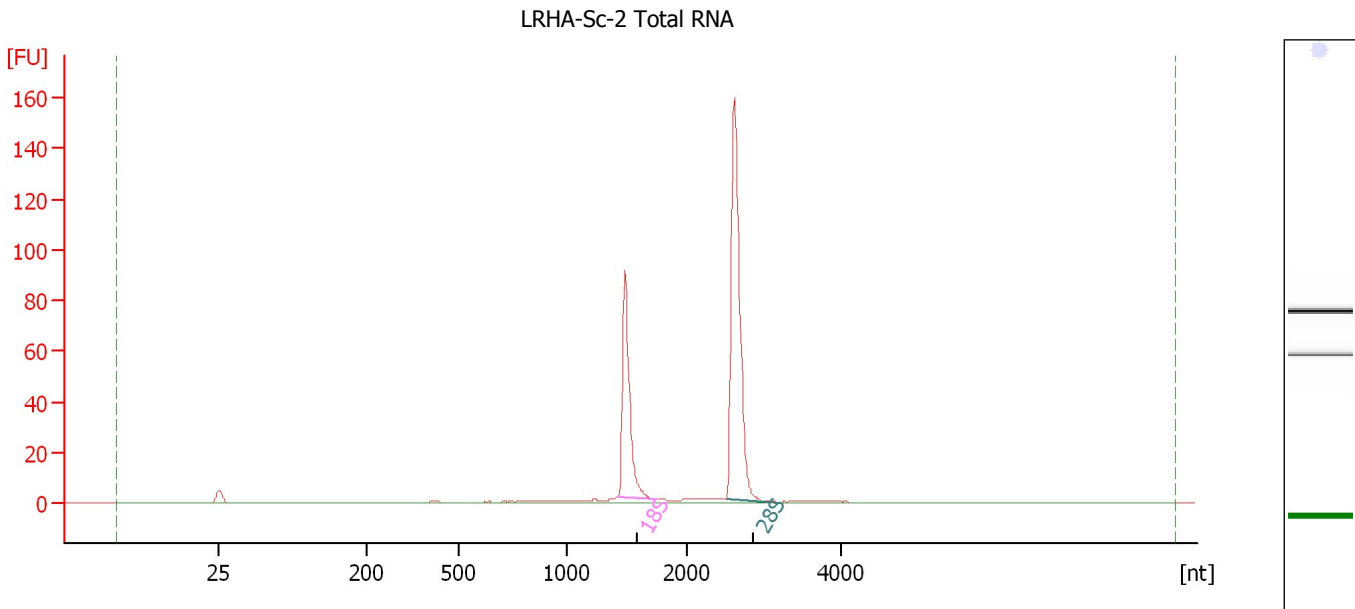
Fragment table for sample 8 : WT-B-2 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,389	1,770	17.4	24.4
28S	2,493	3,094	30.0	42.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
 Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : LRHA-Sc-2 Total RNA

RNA Area:	281.2	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	199 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN:10

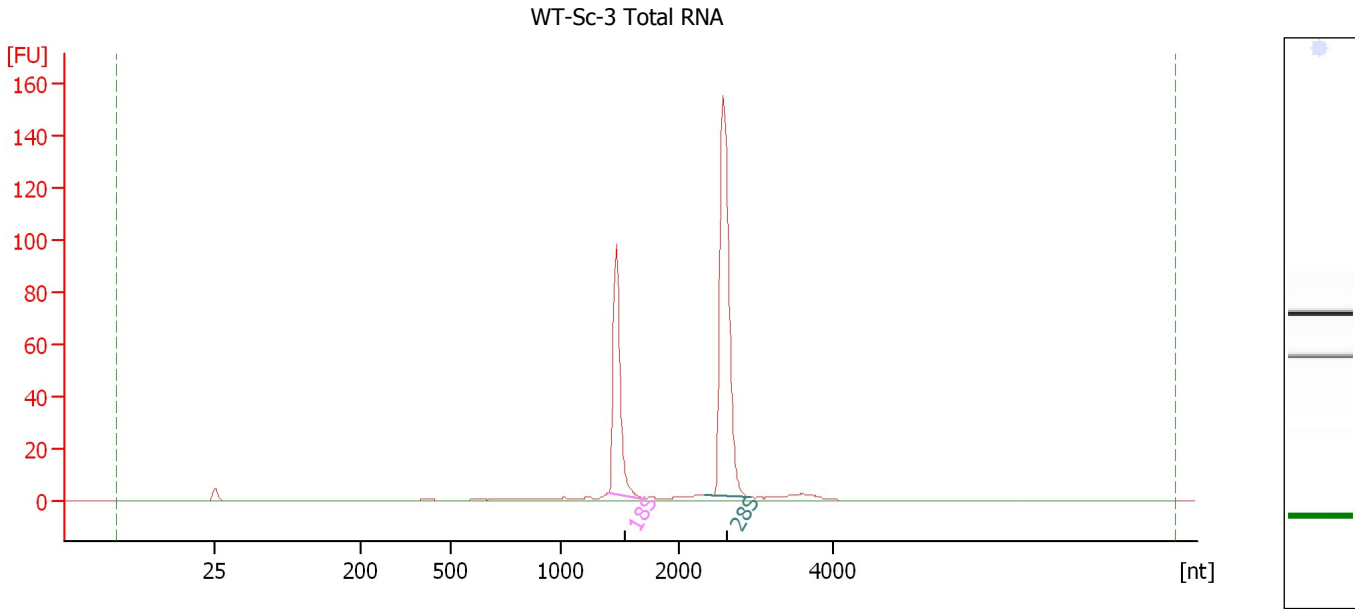
Fragment table for sample 9 : LRHA-Sc-2 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,425	1,738	77.6	27.6
28S	2,505	3,181	153.8	54.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : WT-Sc-3 Total RNA

RNA Area: 301.1 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 213 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

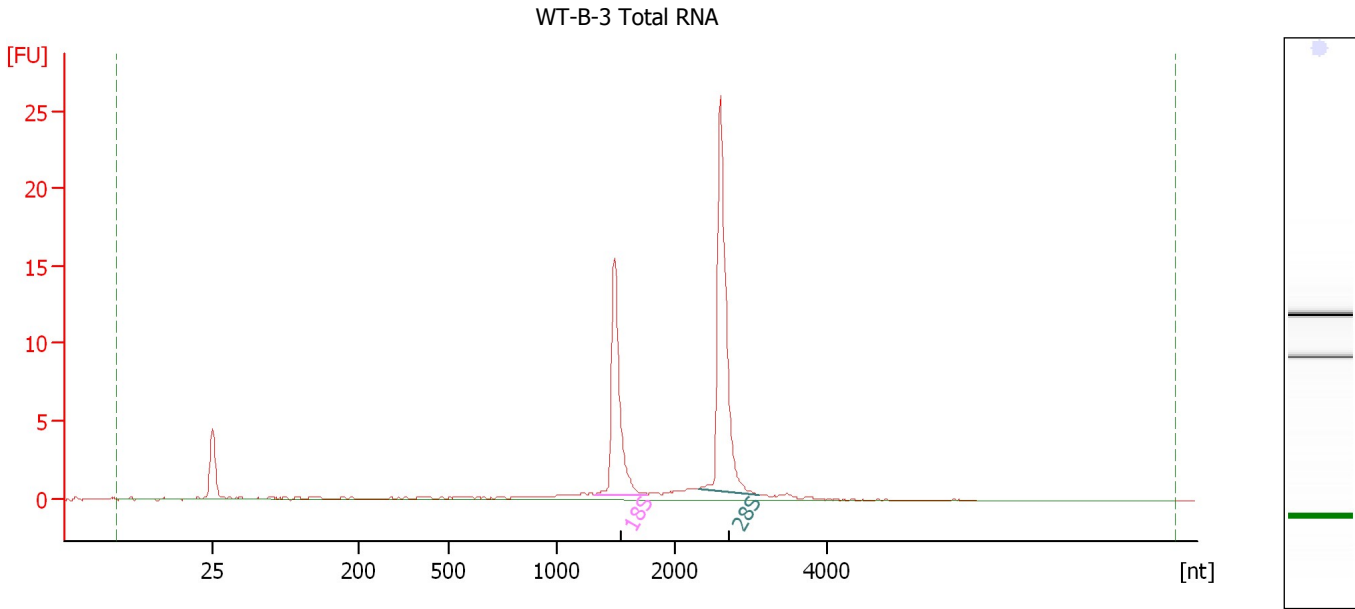
Fragment table for sample 10 : WT-Sc-3 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,417	1,696	80.0	26.6
28S	2,351	2,949	156.4	51.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : WT-B-3 Total RNA

RNA Area: 54.6 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 39 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.90

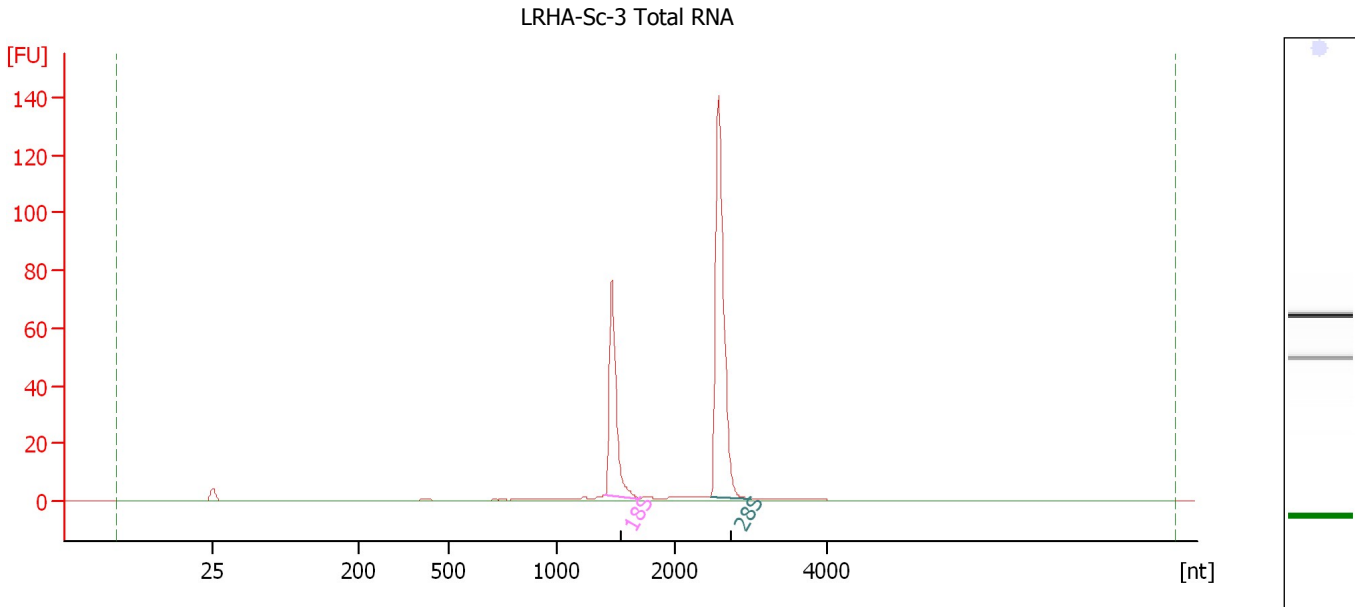
Fragment table for sample 11 : WT-B-3 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,331	1,765	14.8	27.1
28S	2,308	3,103	24.5	44.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
 Modified: 1/9/2013 1:38:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : LRHA-Sc-3 Total RNA

RNA Area:	242.0	RNA Integrity Number (RIN):	9.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	171 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.90

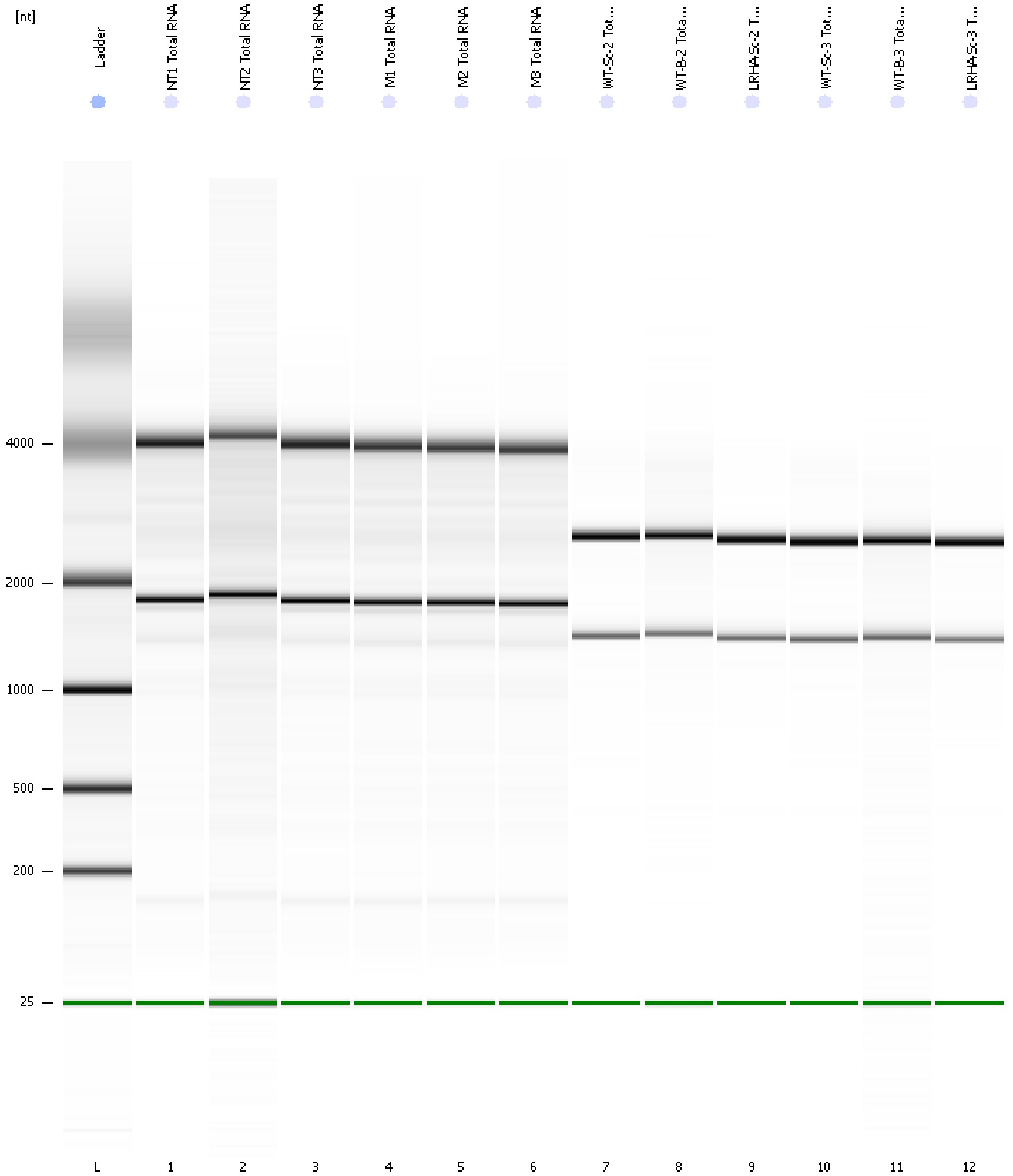
Fragment table for sample 12 : LRHA-Sc-3 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,413	1,702	62.9	26.0
28S	2,475	2,992	131.7	54.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad

Created: 1/9/2013 1:12:42 PM
Modified: 1/9/2013 1:38:38 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 1/9/2013 1:12:42 PM
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad Modified: 1/9/2013 1:38:38 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		1/9/2013 1:36:30 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-01-09\2013-01-09_001.xad)		Instrument	Run		1/9/2013 1:12:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/9/2013 1:12:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/9/2013 1:12:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/9/2013 1:12:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/9/2013 1:12:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/9/2013 1:12:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/9/2013 1:12:47 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1