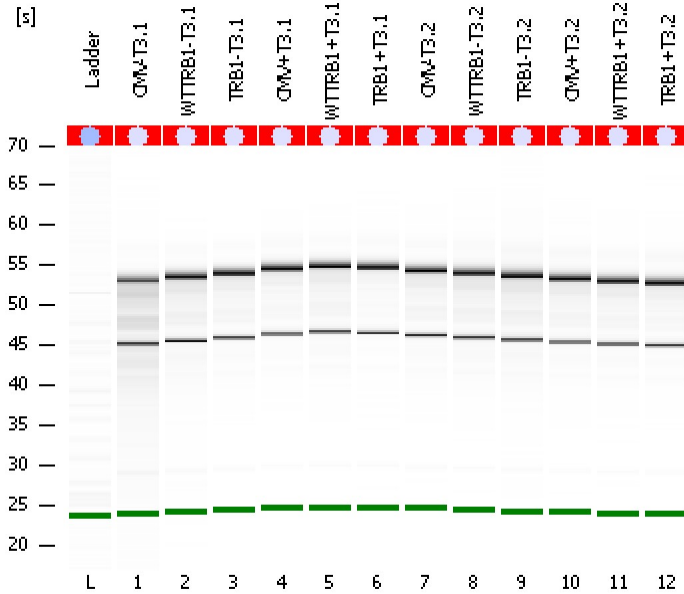


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

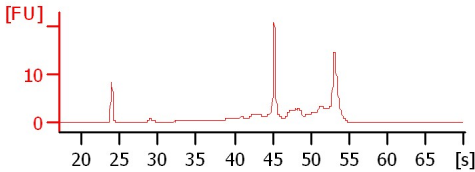
Assay Information:

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.

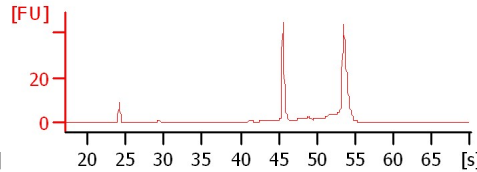
Chip Information:

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

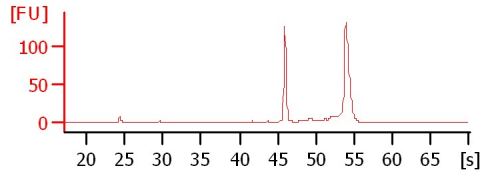
CMV-T3.1
4/28/2015 RJ
RIN: 7.80



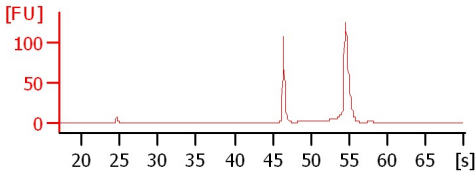
WTTTB1-T3.1
4/28/2015 RJ
RIN: 9.40



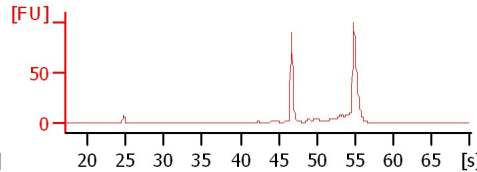
TRB1-T3.1
4/28/2015 RJ
RIN: 9.60



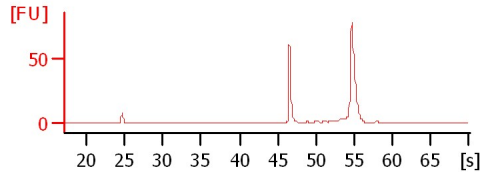
CMV+T3.1
4/28/2015 RJ
RIN: 9.90



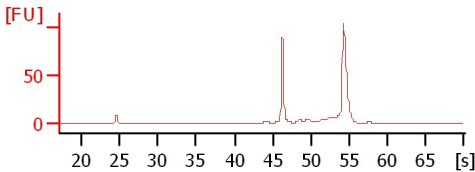
WTTTB1+T3.1
4/28/2015 RJ
RIN: 9.50



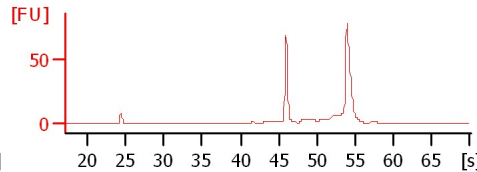
TRB1+T3.1
4/28/2015 RJ
RIN: 10



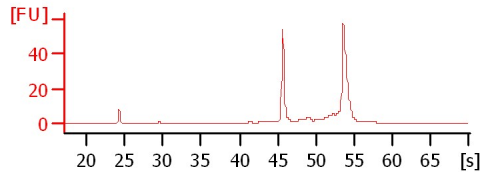
CMV-T3.2
4/28/2015 RJ
RIN: 9.70



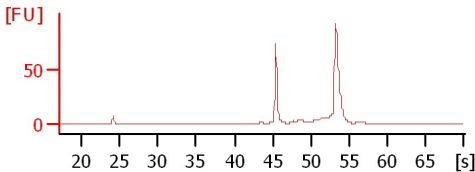
WTTTB1-T3.2
4/28/2015 RJ
RIN: 9.60



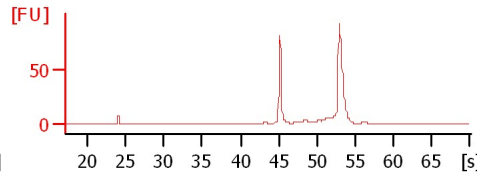
TRB1-T3.2
4/28/2015 RJ
RIN: 9.40



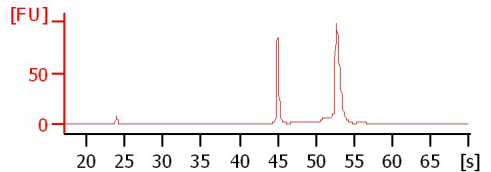
CMV+T3.2
4/28/2015 RJ
RIN: 9.70



WTTTB1+T3.2
4/28/2015 RJ
RIN: 9.80



TRB1+T3.2
4/28/2015 RJ
RIN: 9.90



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
 Modified: 4/28/2015 4:17:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
CMV-T3.1	4/28/2015 RJ	✓	RIN: 7.80	
WTTRB1-T3.1	4/28/2015 RJ	✓	RIN: 9.40	
TRB1-T3.1	4/28/2015 RJ	✓	RIN: 9.60	
CMV+T3.1	4/28/2015 RJ	✓	RIN: 9.90	
WTTRB1+T3.1	4/28/2015 RJ	✓	RIN: 9.50	
TRB1+T3.1	4/28/2015 RJ	✓	RIN:10	
CMV-T3.2	4/28/2015 RJ	✓	RIN: 9.70	
WTTRB1-T3.2	4/28/2015 RJ	✓	RIN: 9.60	
TRB1-T3.2	4/28/2015 RJ	✓	RIN: 9.40	
CMV+T3.2	4/28/2015 RJ	✓	RIN: 9.70	
WTTRB1+T3.2	4/28/2015 RJ	✓	RIN: 9.80	
TRB1+T3.2	4/28/2015 RJ	✓	RIN: 9.90	
Ladder	4/28/2015 RJ	✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 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

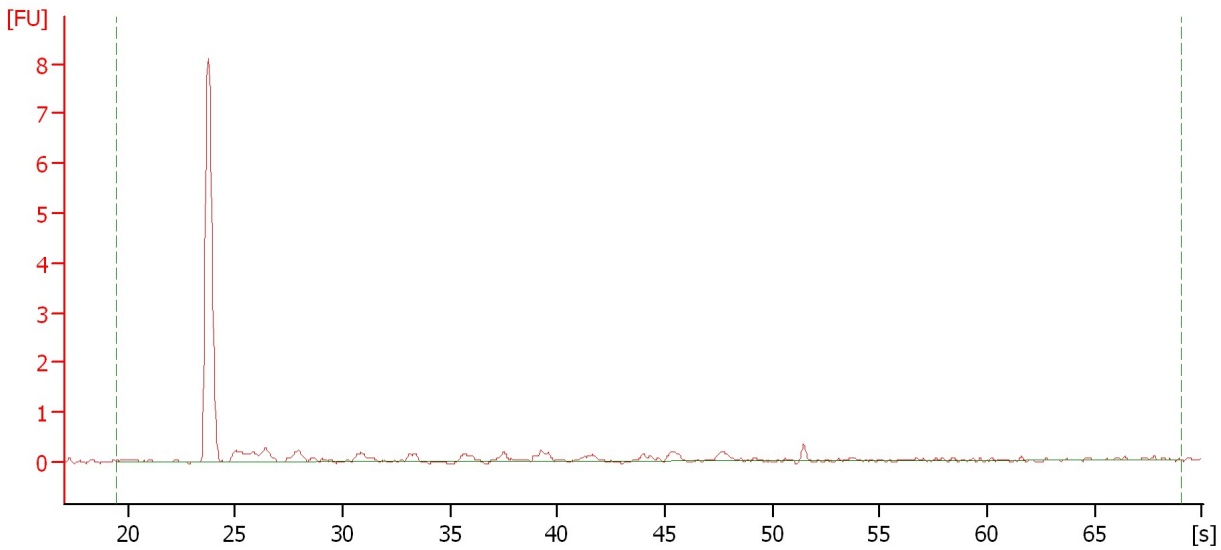
Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary

Ladder [4/28/2015 RJ]



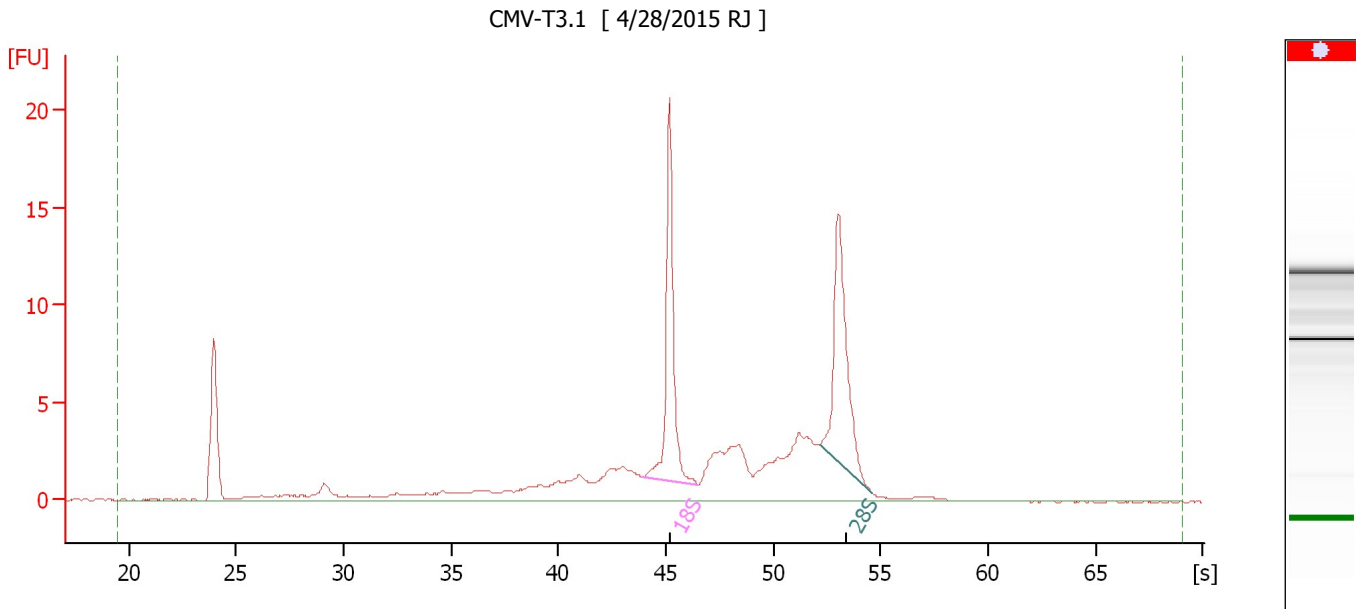
Overall Results for Ladder

RNA Area:	3.9	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
 Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : CMV-T3.1

RNA Area:	103.1	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	3,961 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.80

Fragment table for sample 1 : CMV-T3.1

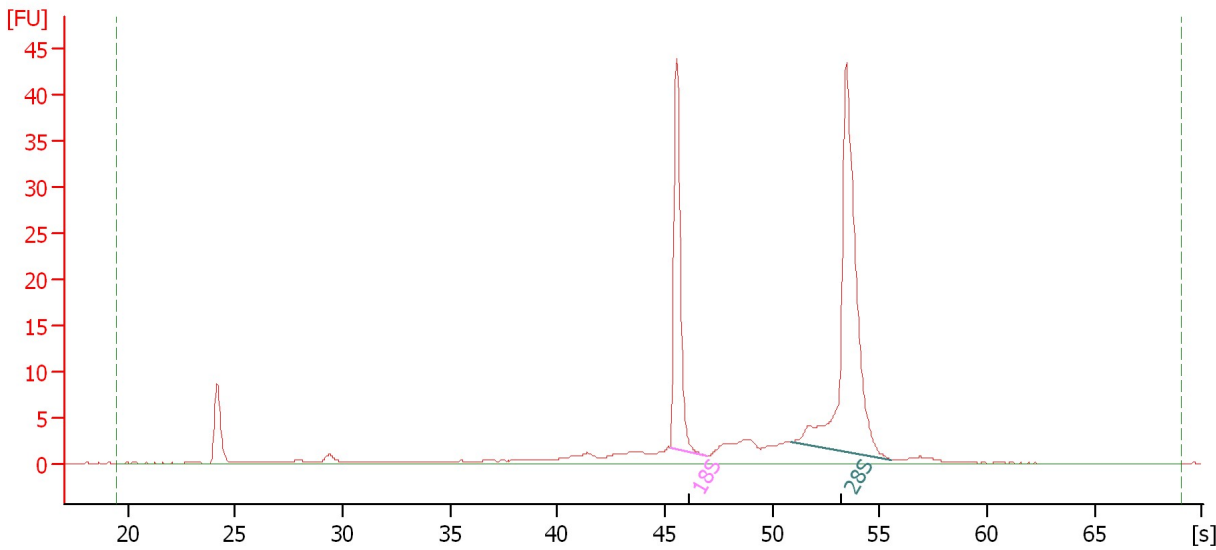
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	16.9	16.4
28S	0	0	16.1	15.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
 Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

WTTRB1-T3.1 [4/28/2015 RJ]



Overall Results for sample 2 : WTTRB1-T3.1

RNA Area:	150.7	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	5,793 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.40

Fragment table for sample 2 : WTTRB1-T3.1

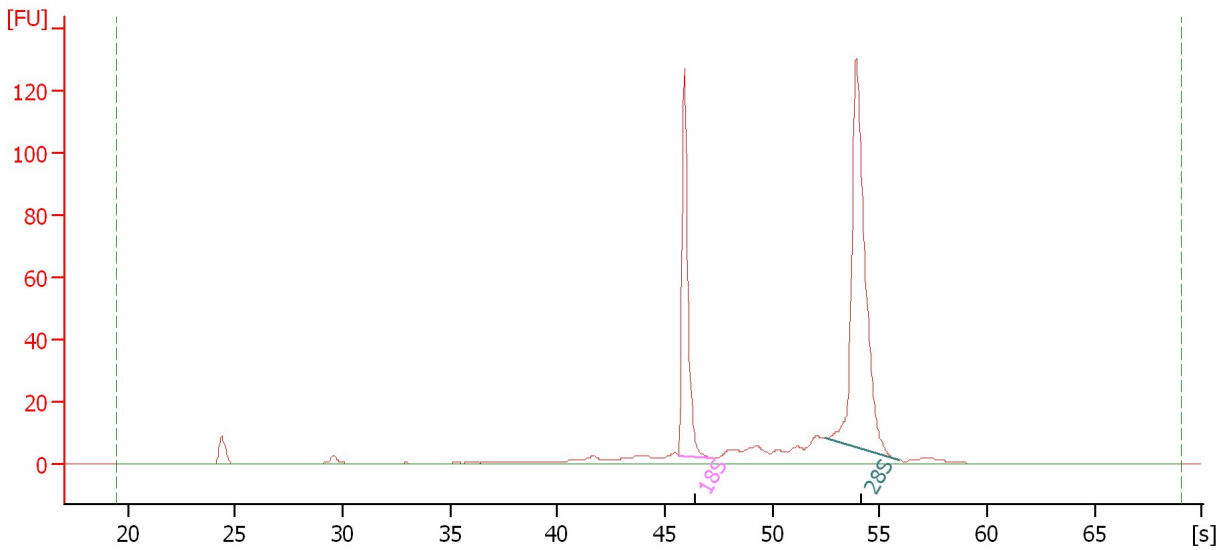
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	30.8	20.4
28S	0	0	62.8	41.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

TRB1-T3.1 [4/28/2015 RJ]



Overall Results for sample 3 : TRB1-T3.1

RNA Area: 393.7 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 15,132 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.60

Fragment table for sample 3 : TRB1-T3.1

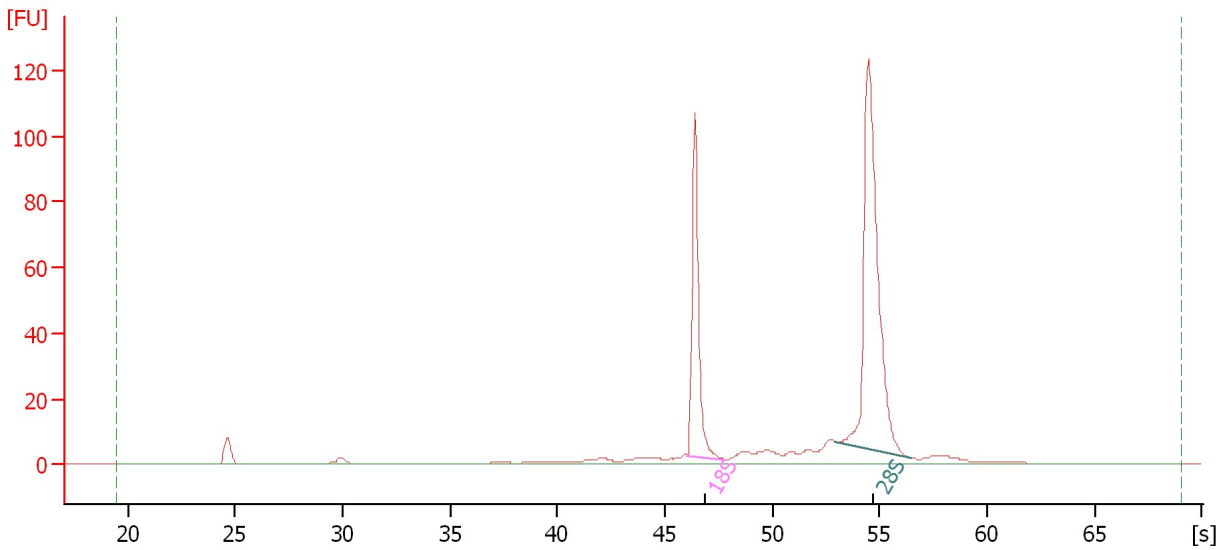
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	89.3	22.7
28S	0	0	168.1	42.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

CMV+T3.1 [4/28/2015 RJ]



Overall Results for sample 4 : CMV+T3.1

RNA Area: 350.1 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 13,455 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.90

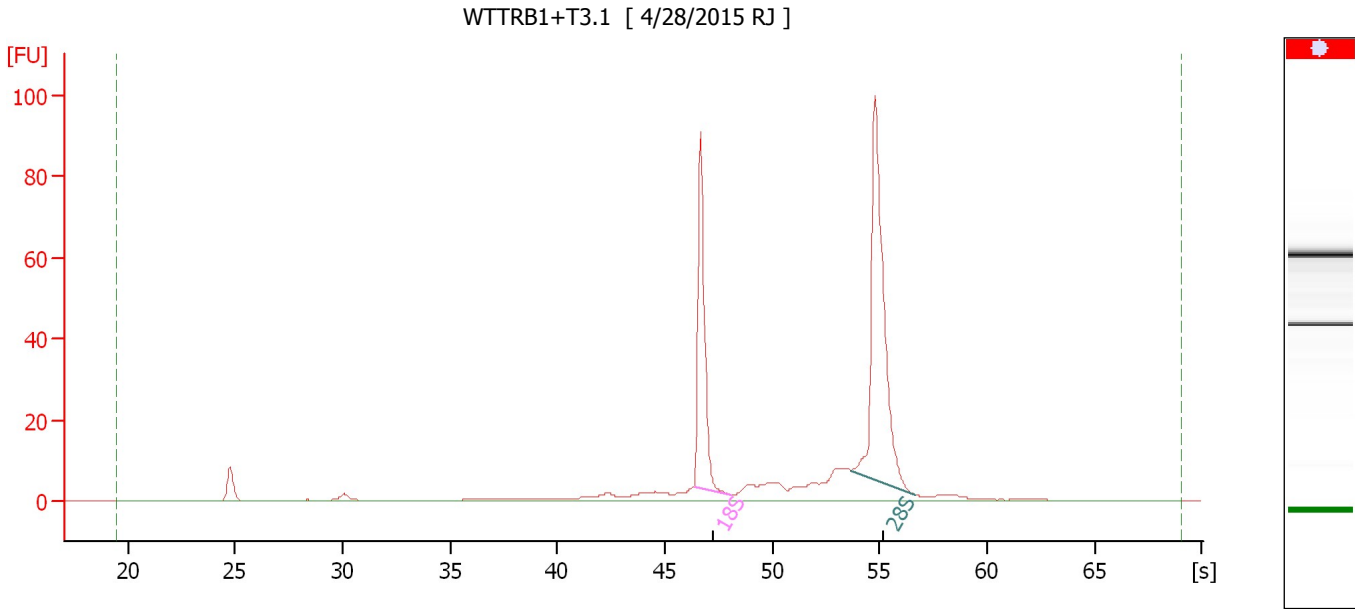
Fragment table for sample 4 : CMV+T3.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	78.2	22.3
28S	0	0	157.6	45.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WTTRB1+T3.1

RNA Area:	303.7	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	11,674 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

Fragment table for sample 5 : WTTRB1+T3.1

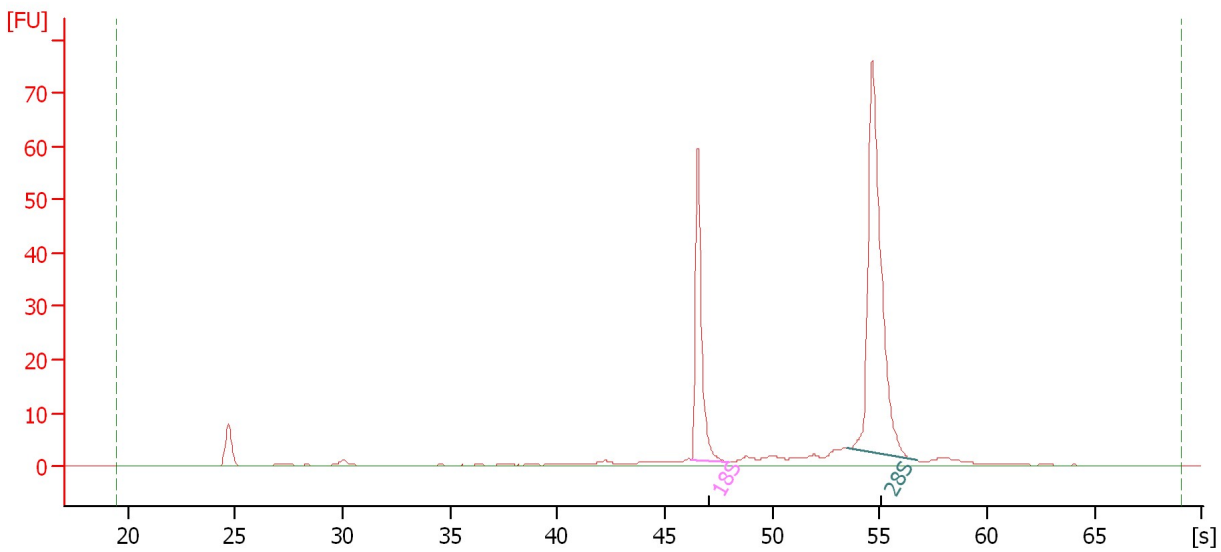
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	65.5	21.6
28S	0	0	112.3	37.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

TRB1+T3.1 [4/28/2015 RJ]



Overall Results for sample 6 : TRB1+T3.1

RNA Area: 198.7 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 7,638 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN:10

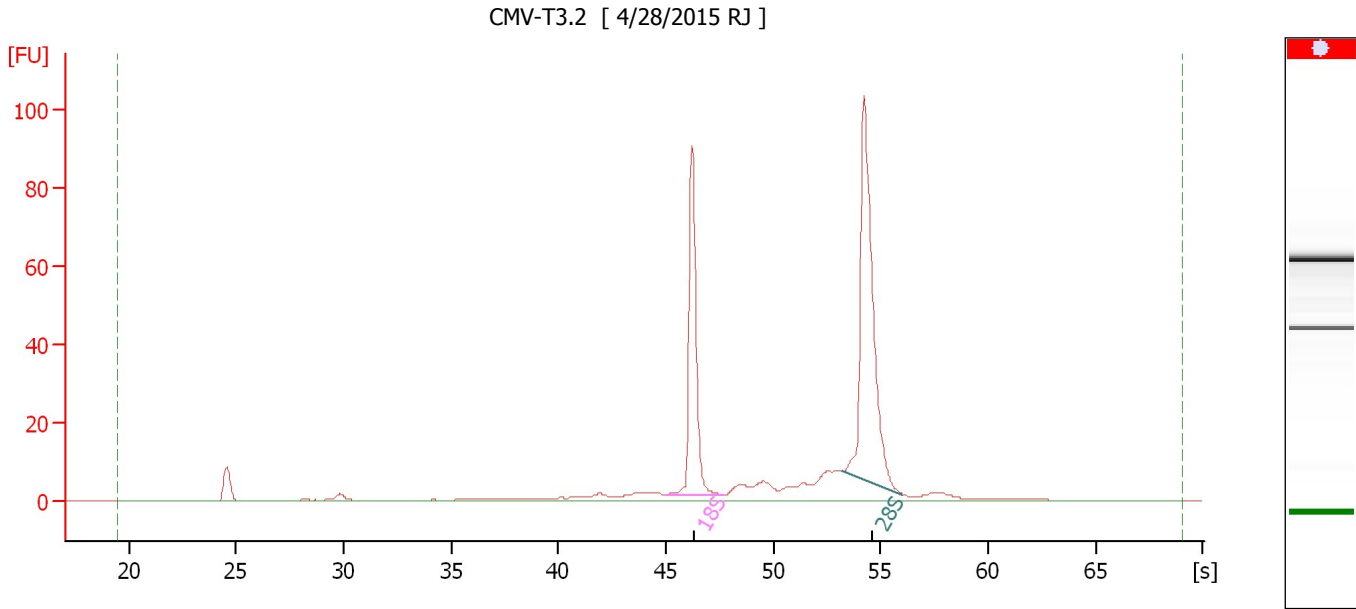
Fragment table for sample 6 : TRB1+T3.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	43.4	21.8
28S	0	0	94.0	47.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
 Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CMV-T3.2

RNA Area:	311.2	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	11,962 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.70

Fragment table for sample 7 : CMV-T3.2

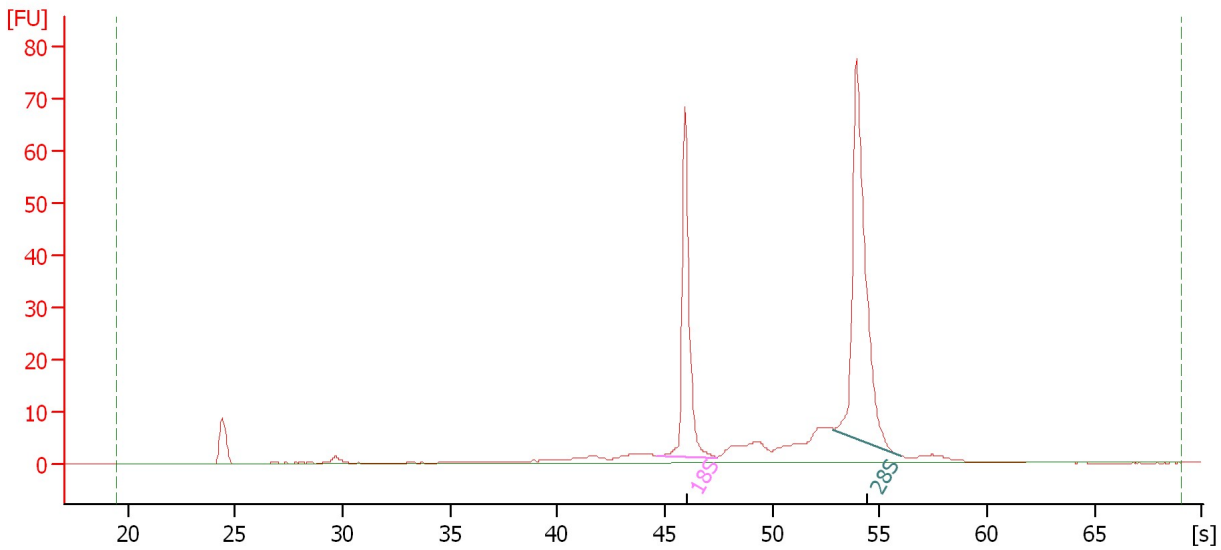
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	70.0	22.5
28S	0	0	117.2	37.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

WTTRB1-T3.2 [4/28/2015 RJ]



Overall Results for sample 8 : WTTRB1-T3.2

RNA Area: 254.1 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 9,765 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.60

Fragment table for sample 8 : WTTRB1-T3.2

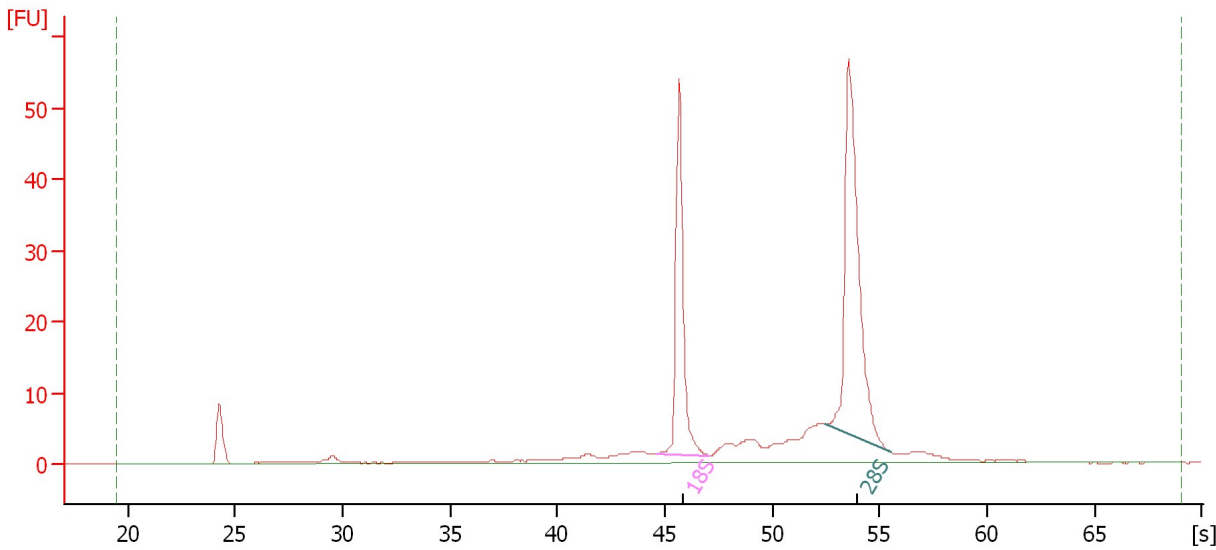
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	56.5	22.2
28S	0	0	93.0	36.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

TRB1-T3.2 [4/28/2015 RJ]



Overall Results for sample 9 : TRB1-T3.2

RNA Area: 208.1 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 7,997 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.40

Fragment table for sample 9 : TRB1-T3.2

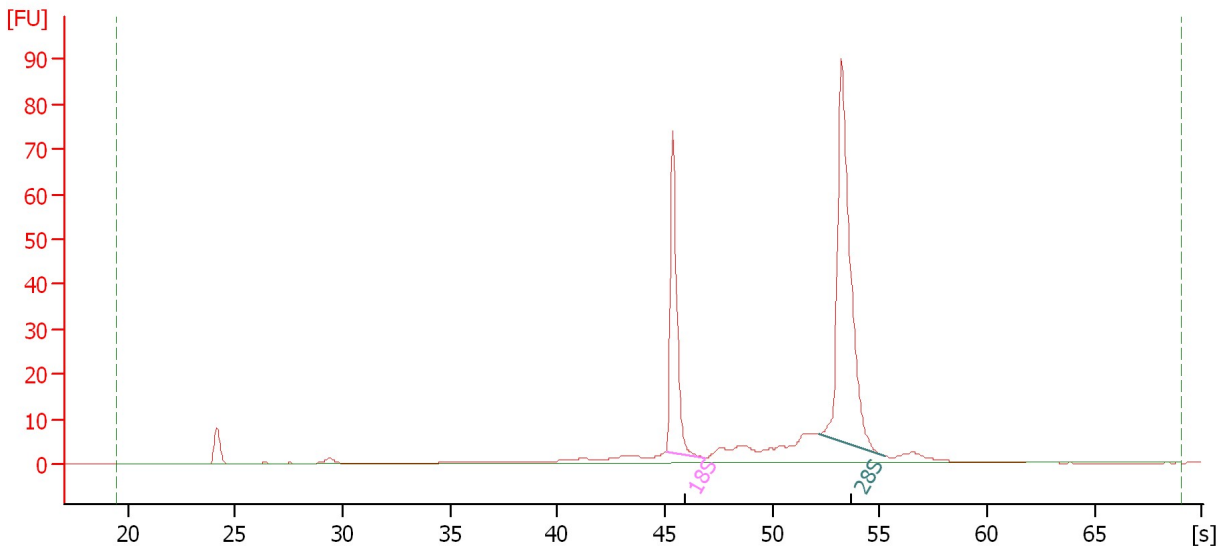
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	43.5	20.9
28S	0	0	71.3	34.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

CMV+T3.2 [4/28/2015 RJ]



Overall Results for sample 10 : CMV+T3.2

RNA Area:	270.6	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	10,399 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.70

Fragment table for sample 10 : CMV+T3.2

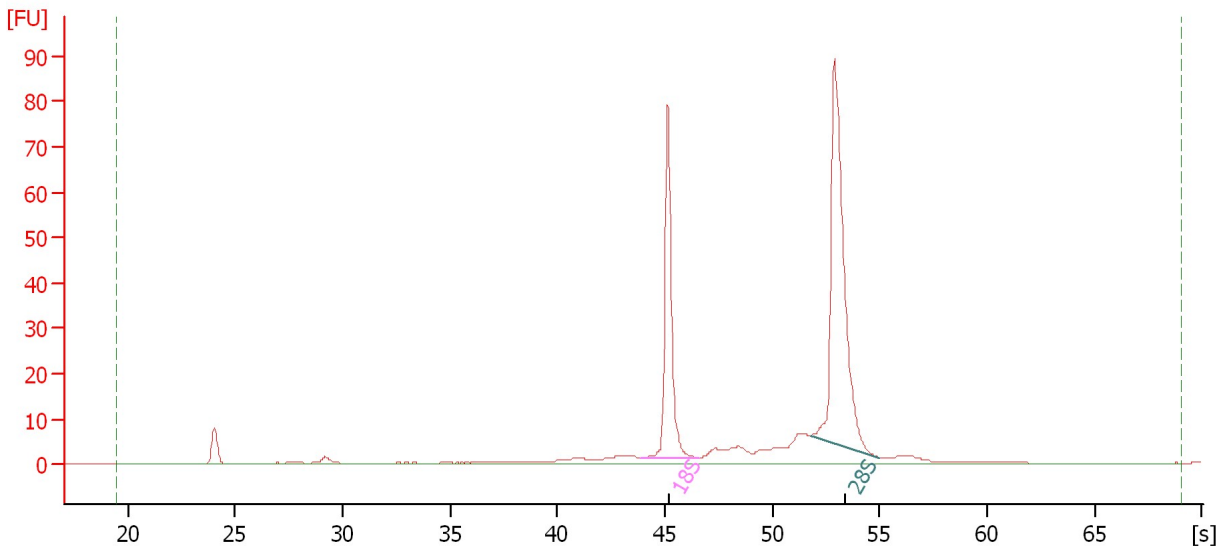
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	55.2	20.4
28S	0	0	108.7	40.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

WTTRB1+T3.2 [4/28/2015 RJ]



Overall Results for sample 11 : WTTRB1+T3.2

RNA Area: 269.8 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 10,369 ng/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.80

Fragment table for sample 11 : WTTRB1+T3.2

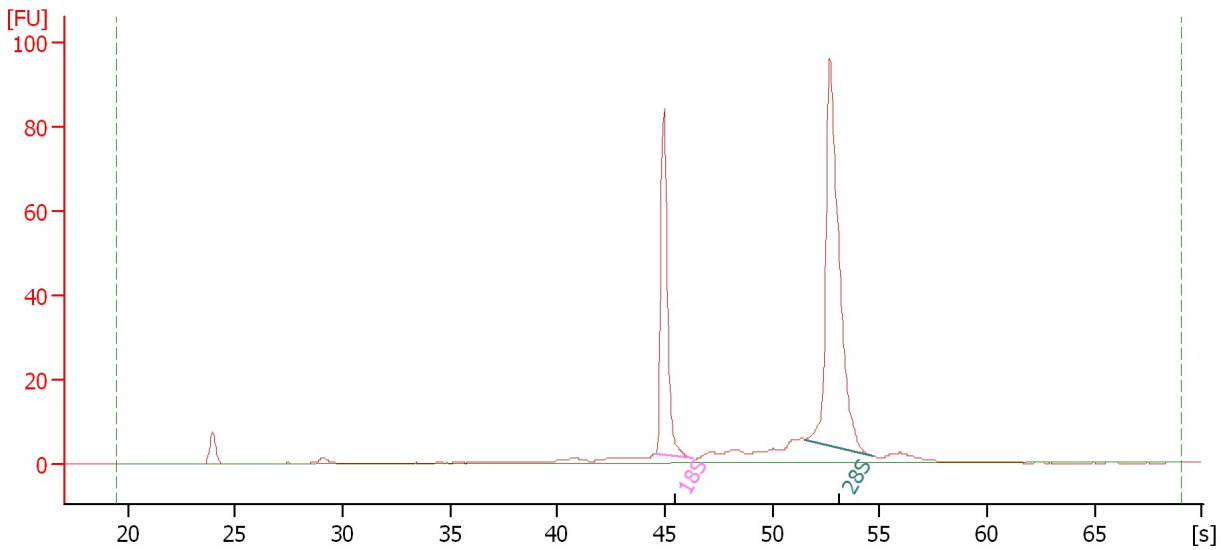
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	63.8	23.6
28S	0	0	108.4	40.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Electropherogram Summary Continued ...

TRB1+T3.2 [4/28/2015 RJ]



Overall Results for sample 12 : TRB1+T3.2

RNA Area: 278.7 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 10,710 ng/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.90

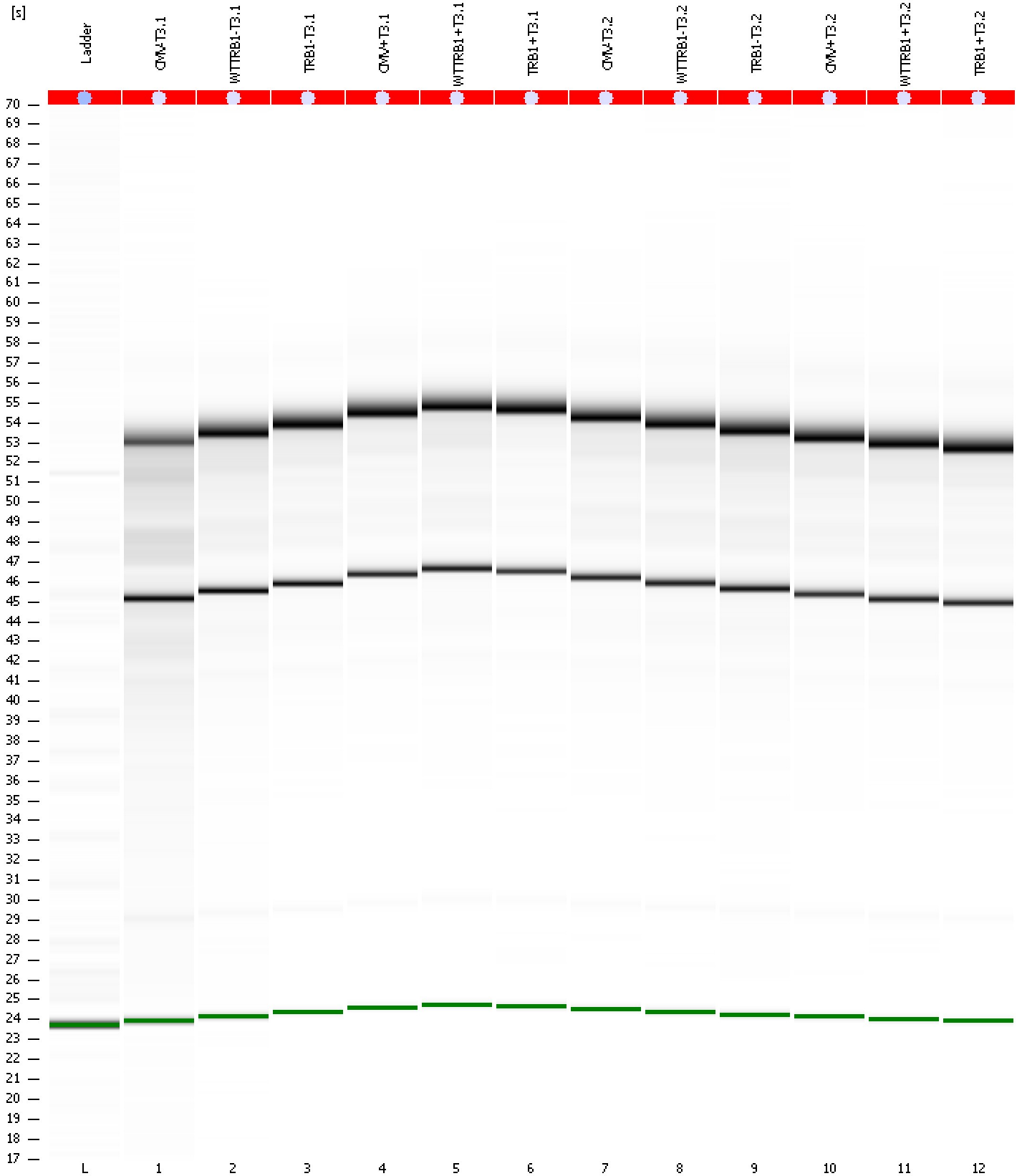
Fragment table for sample 12 : TRB1+T3.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	0	0	62.7	22.5
28S	0	0	123.9	44.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
Modified: 4/28/2015 4:17:07 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad

Created: 4/28/2015 3:48:06 PM
 Modified: 4/28/2015 4:17:07 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		4/28/2015 4:11:55 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-28\2015-04-28_006.xad)		Instrument	Run		4/28/2015 3:48:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/28/2015 3:48:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/28/2015 3:48:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/28/2015 3:48:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/28/2015 3:48:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/28/2015 3:48:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/28/2015 3:48:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1