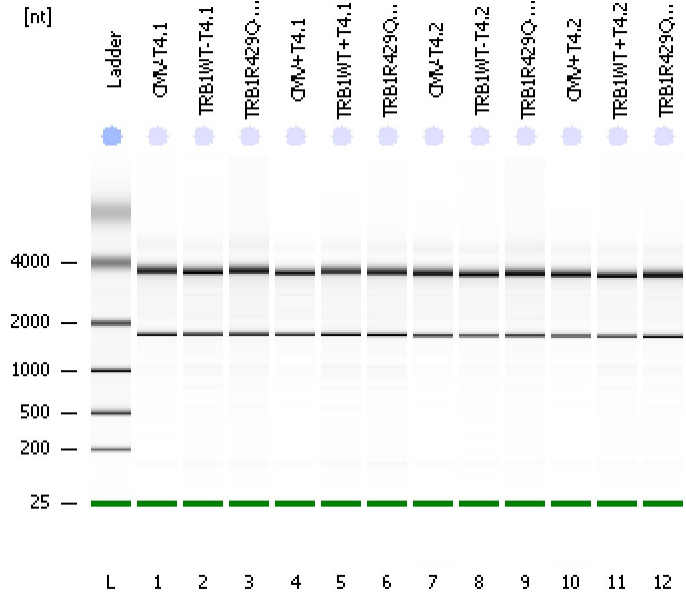


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 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)

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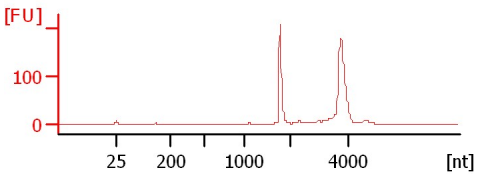
Chip Information:

Chip Lot #:

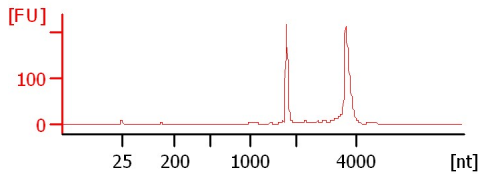
Reagent Kit Lot #:

Chip Comments:

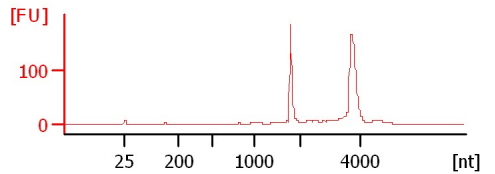
CMV-T4.1
RIN: 9.80



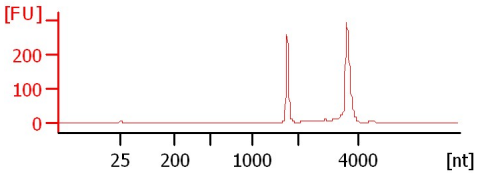
TRB1WT-T4.1
RIN: 9.60



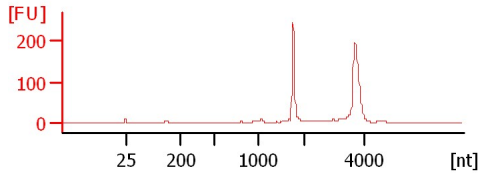
TRB1R429Q-T4.1
RIN: 9.70



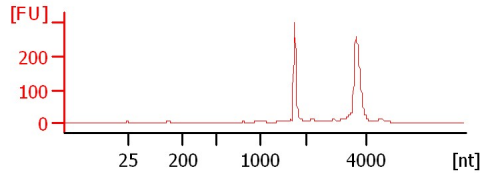
CMV+T4.1
RIN: 9.90



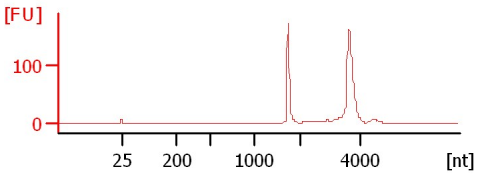
TRB1WT+T4.1
RIN: 9.40



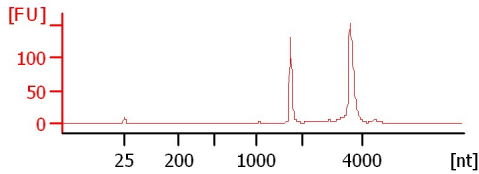
TRB1R429Q+T4.1
RIN: 9.60



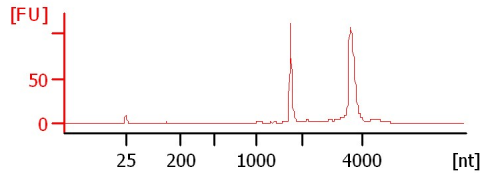
CMV-T4.2
RIN: 9.80



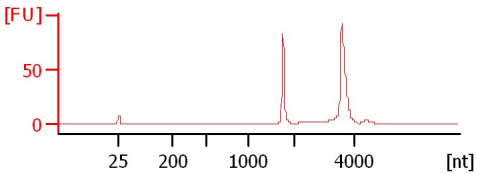
TRB1WT-T4.2
RIN: 9.80



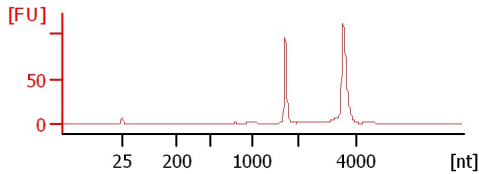
TRB1R429Q-T4.2
RIN: 9.80



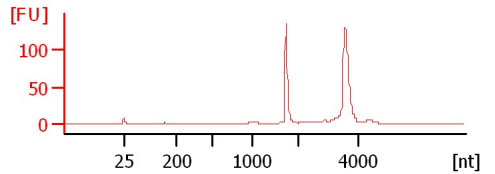
CMV+T4.2
RIN: 9.90



TRB1WT+T4.2
RIN: 9.50



TRB1R429Q+T4.2
RIN: 9.60



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
 Modified: 6/5/2015 9:06:18 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
CMV-T4.1		✓	RIN: 9.80	
TRB1WT-T4.1		✓	RIN: 9.60	
TRB1R429Q-T4.1		✓	RIN: 9.70	
CMV+T4.1		✓	RIN: 9.90	
TRB1WT+T4.1		✓	RIN: 9.40	
TRB1R429Q+T4.1		✓	RIN: 9.60	
CMV-T4.2		✓	RIN: 9.80	
TRB1WT-T4.2		✓	RIN: 9.80	
TRB1R429Q-T4.2		✓	RIN: 9.80	
CMV+T4.2		✓	RIN: 9.90	
TRB1WT+T4.2		✓	RIN: 9.50	
TRB1R429Q+T4.2		✓	RIN: 9.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 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

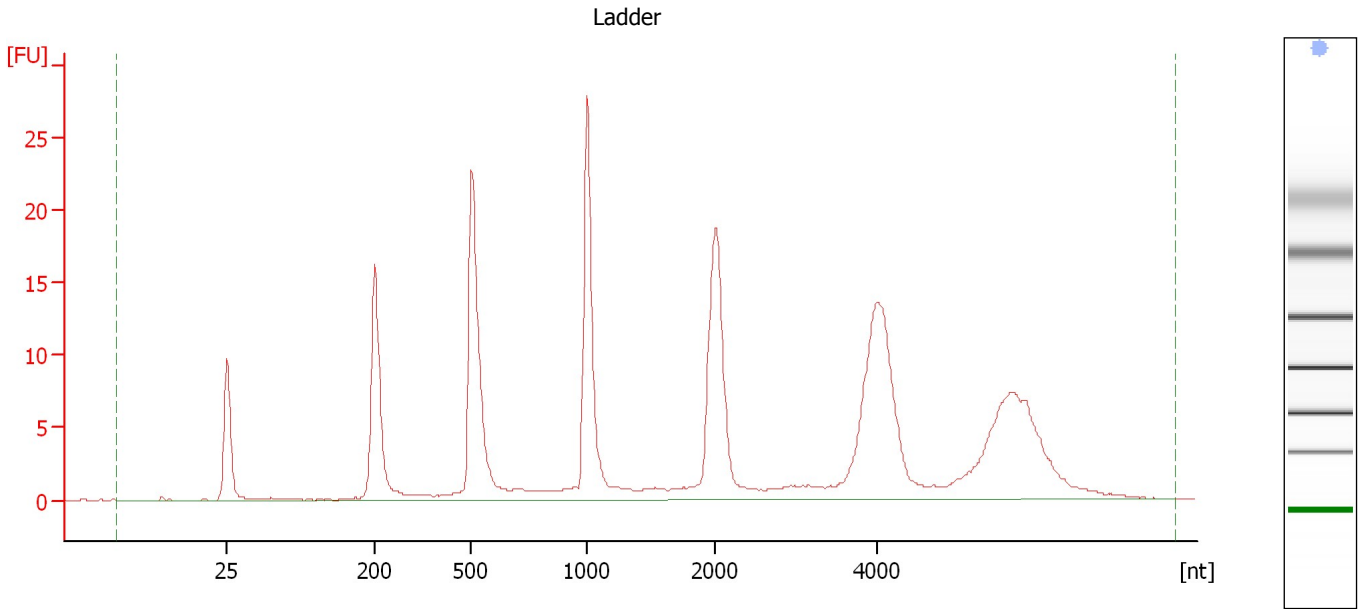
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary



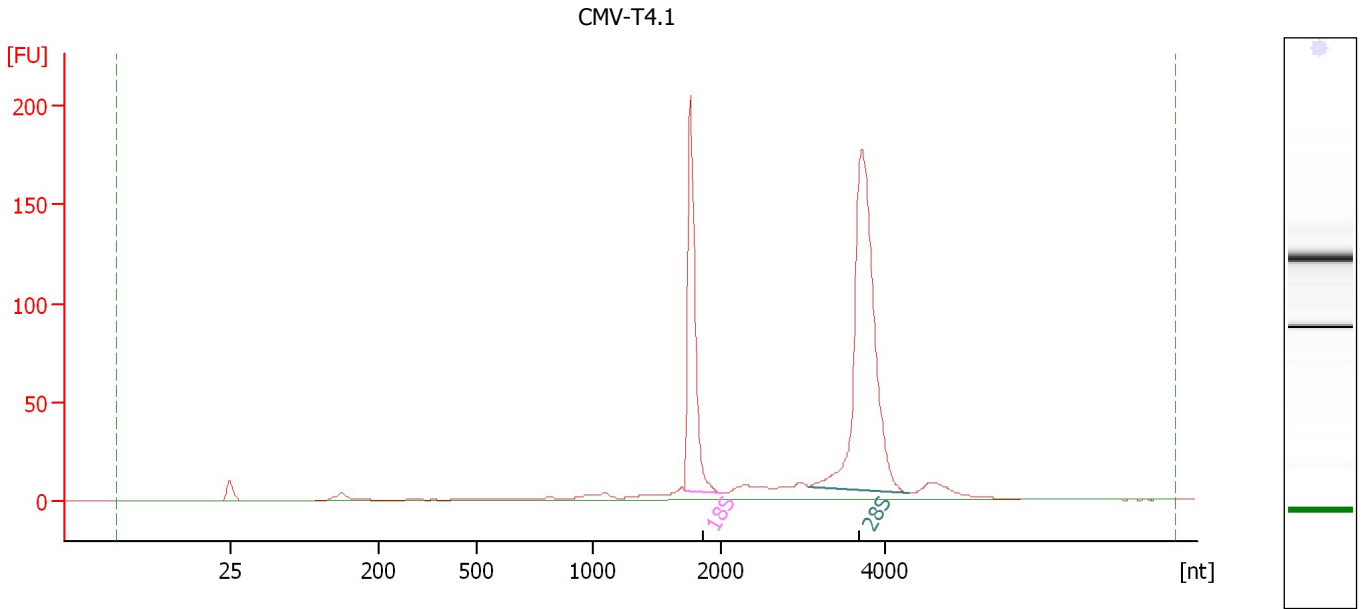
Overall Results for Ladder

RNA Area:	228.6	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
 Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : CMV-T4.1

RNA Area:	713.1	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	468 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.80

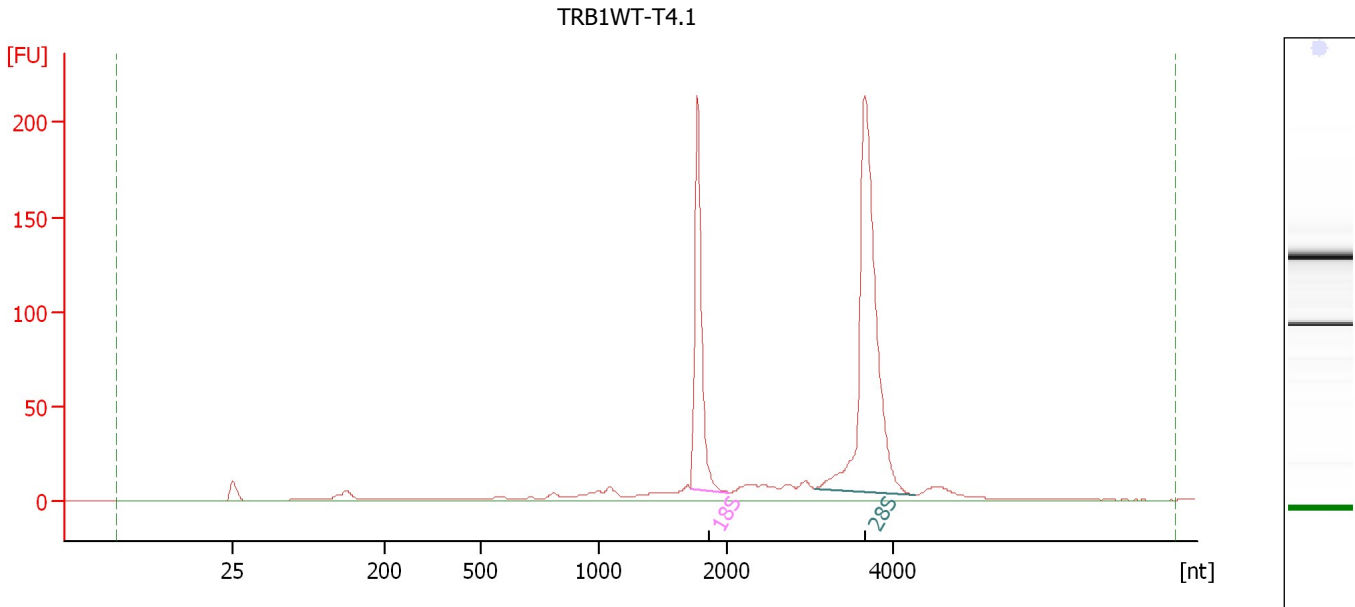
Fragment table for sample 1 : CMV-T4.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,711	2,015	163.7	23.0
28S	3,075	4,304	337.0	47.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : TRB1WT-T4.1

RNA Area: 746.4 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 490 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.60

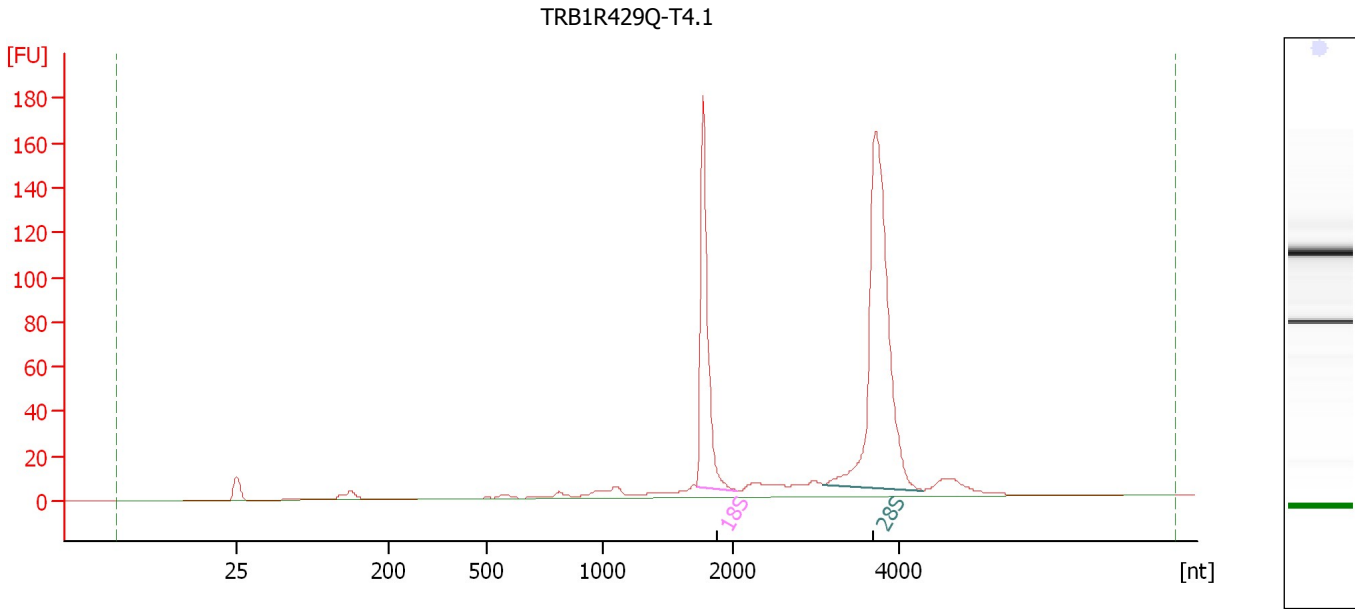
Fragment table for sample 2 : TRB1WT-T4.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,715	2,018	165.0	22.1
28S	3,058	4,280	334.9	44.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
 Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : TRB1R429Q-T4.1

RNA Area:	628.5	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	412 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.70

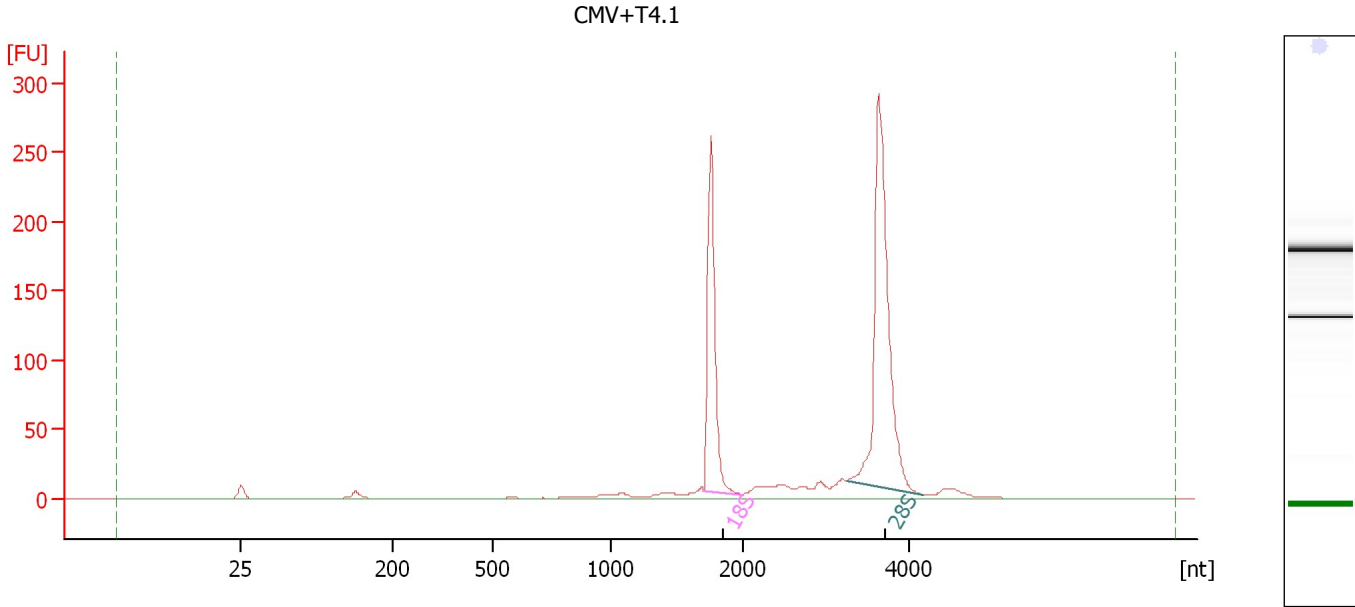
Fragment table for sample 3 : TRB1R429Q-T4.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,710	2,047	142.8	22.7
28S	3,081	4,282	295.8	47.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
 Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : CMV+T4.1

RNA Area:	812.3	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	533 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.90

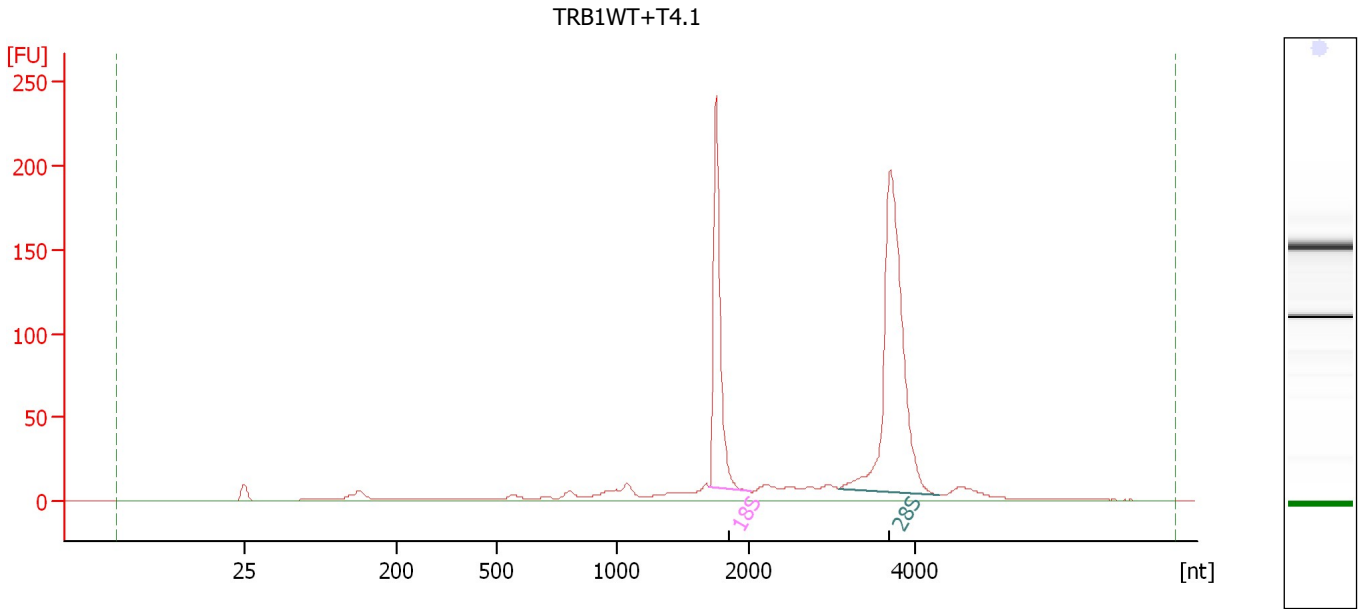
Fragment table for sample 4 : CMV+T4.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,707	1,999	202.4	24.9
28S	3,255	4,165	368.7	45.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : TRB1WT+T4.1

RNA Area: 828.6 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 544 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.40

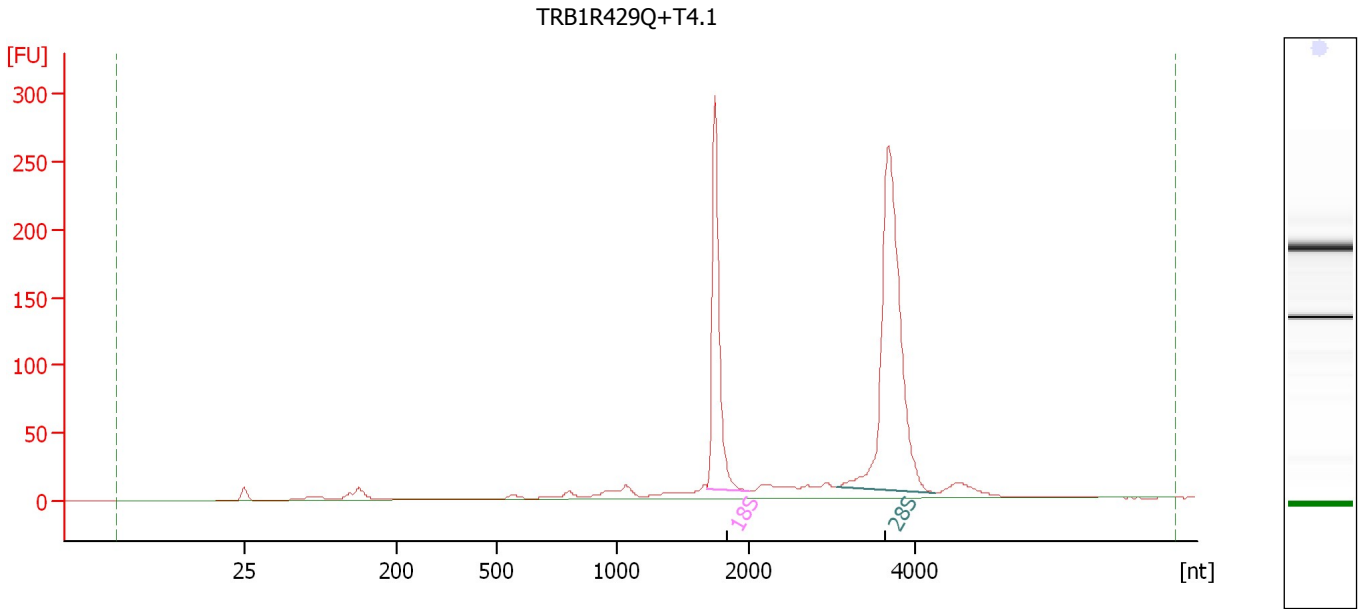
Fragment table for sample 5 : TRB1WT+T4.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,702	2,027	184.5	22.3
28S	3,072	4,270	347.4	41.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
 Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : TRB1R429Q+T4.1

RNA Area:	1,034.0	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	678 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.60

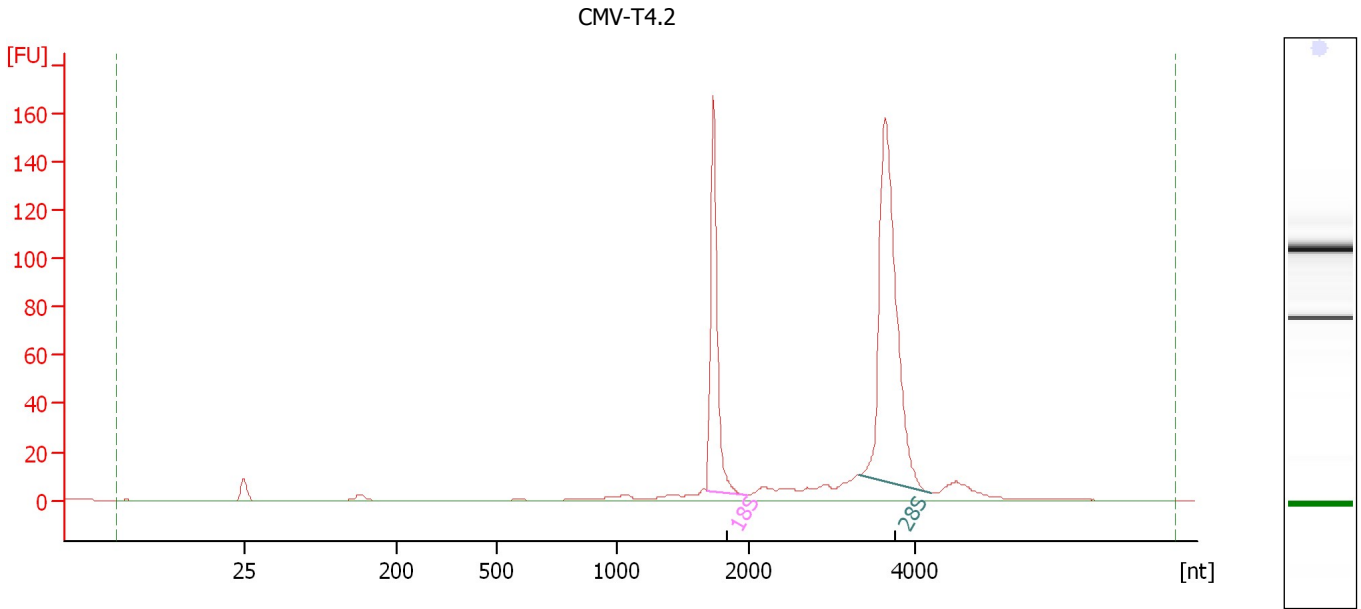
Fragment table for sample 6 : TRB1R429Q+T4.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	2,014	238.3	23.0
28S	3,047	4,232	459.2	44.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CMV-T4.2

RNA Area: 531.5 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 349 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.80

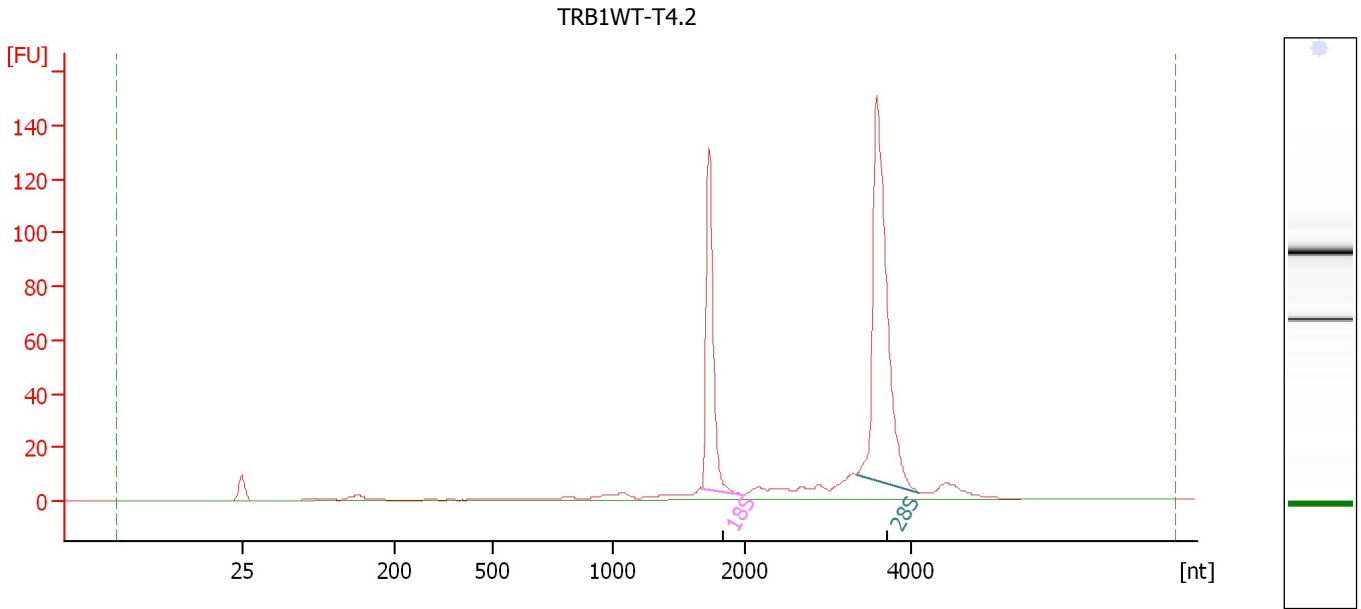
Fragment table for sample 7 : CMV-T4.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	1,985	125.9	23.7
28S	3,314	4,168	247.0	46.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : TRB1WT-T4.2

RNA Area: 448.3 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 294 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.80

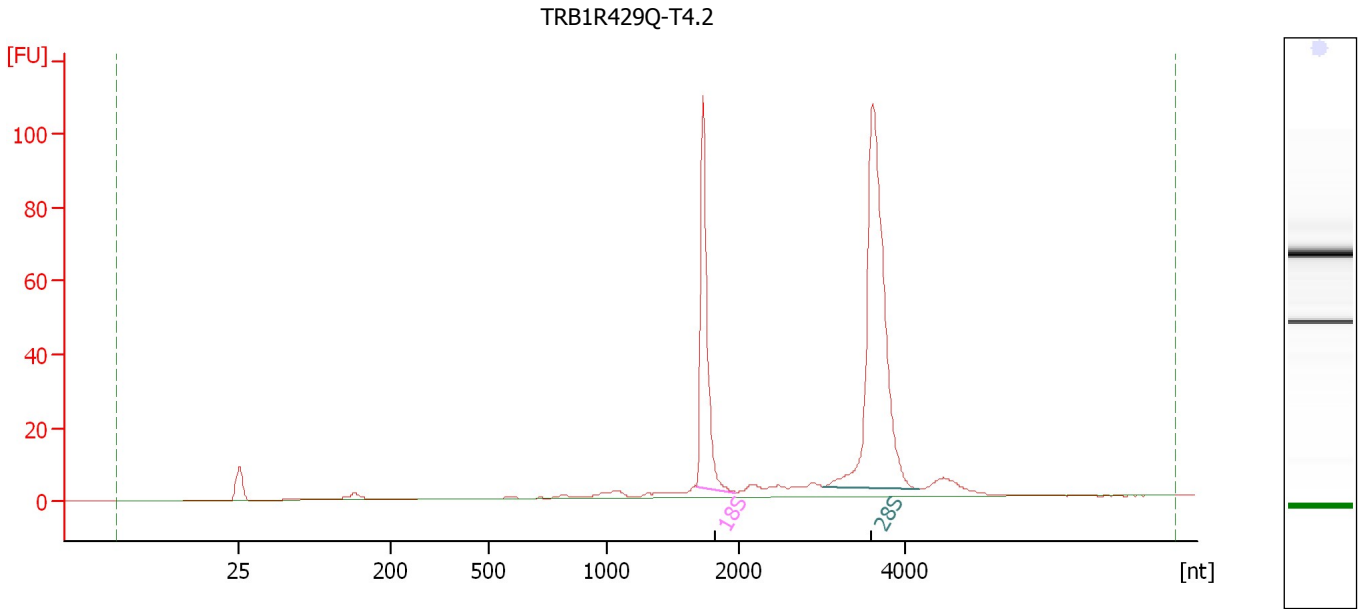
Fragment table for sample 8 : TRB1WT-T4.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	1,983	98.1	21.9
28S	3,343	4,098	193.2	43.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
 Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : TRB1R429Q-T4.2

RNA Area:	355.8	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	233 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.80

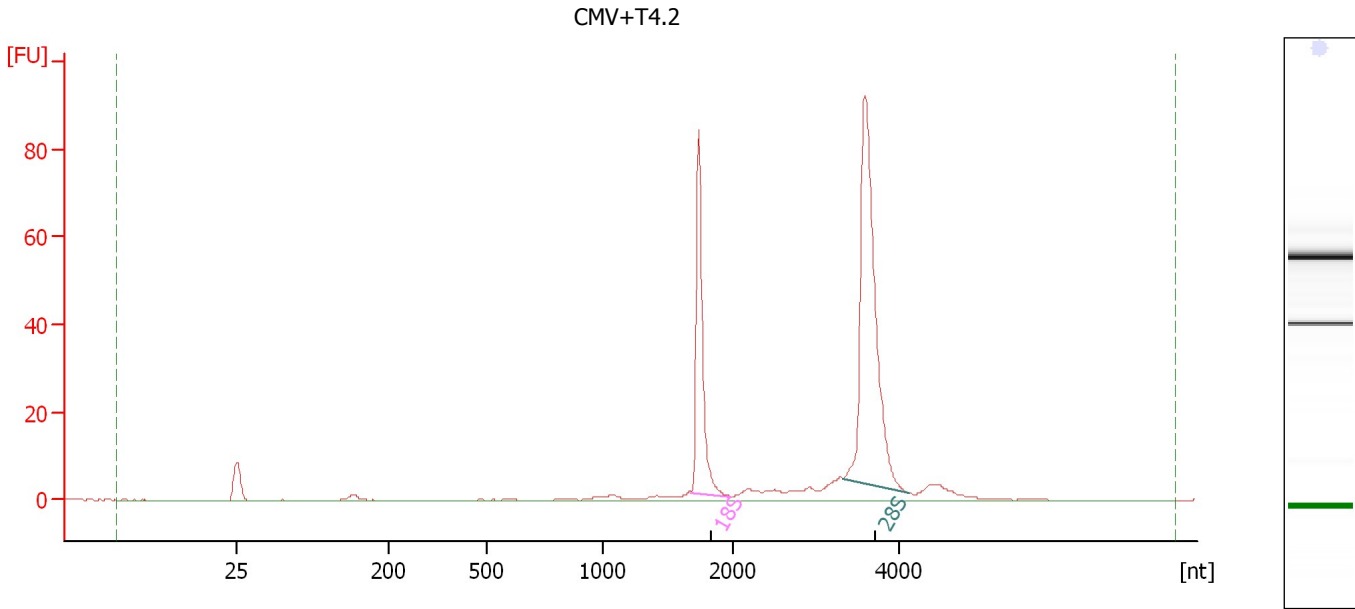
Fragment table for sample 9 : TRB1R429Q-T4.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,680	1,982	82.8	23.3
28S	3,027	4,172	180.3	50.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : CMV+T4.2

RNA Area: 263.9 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 173 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.90

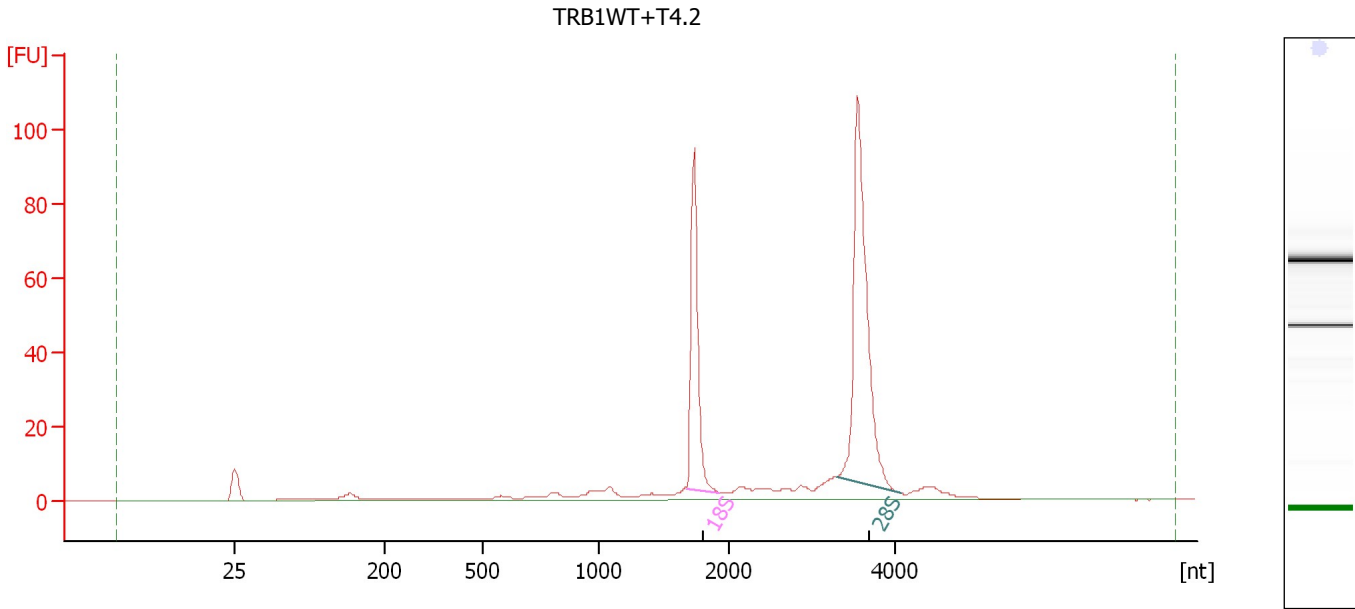
Fragment table for sample 10 : CMV+T4.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,678	1,980	63.3	24.0
28S	3,326	4,127	125.3	47.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : TRB1WT+T4.2

RNA Area: 333.9 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 219 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.50

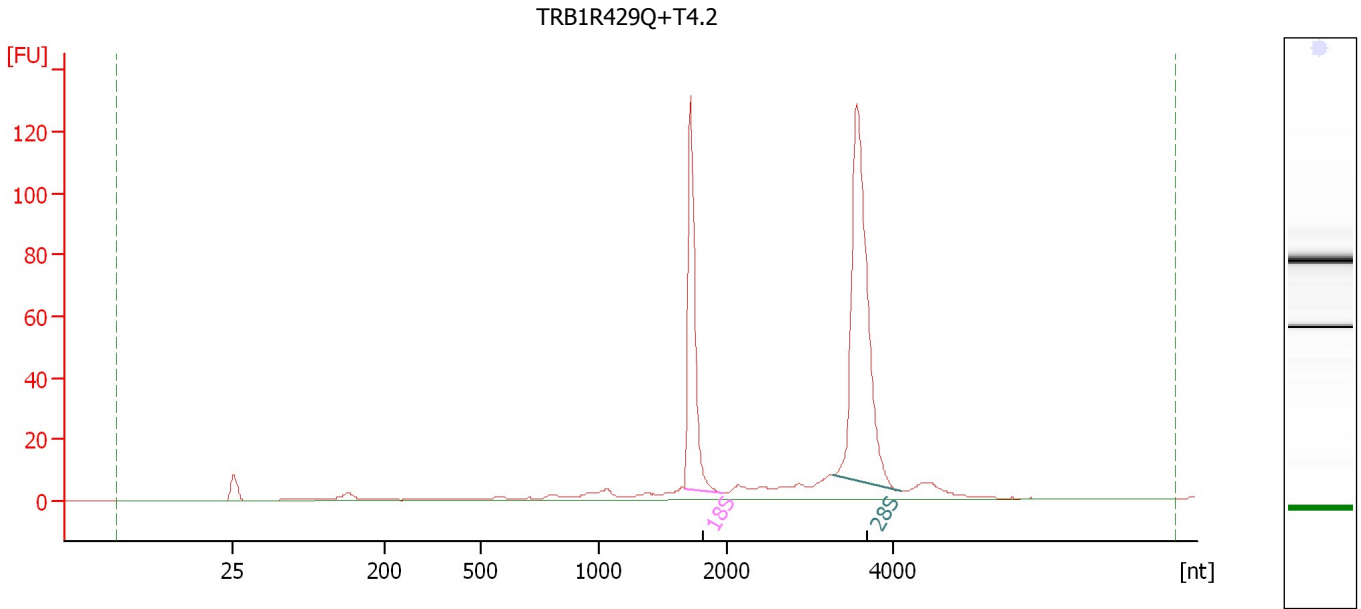
Fragment table for sample 11 : TRB1WT+T4.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,675	1,922	69.2	20.7
28S	3,303	4,069	133.8	40.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : TRB1R429Q+T4.2

RNA Area: 445.9 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 293 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.60

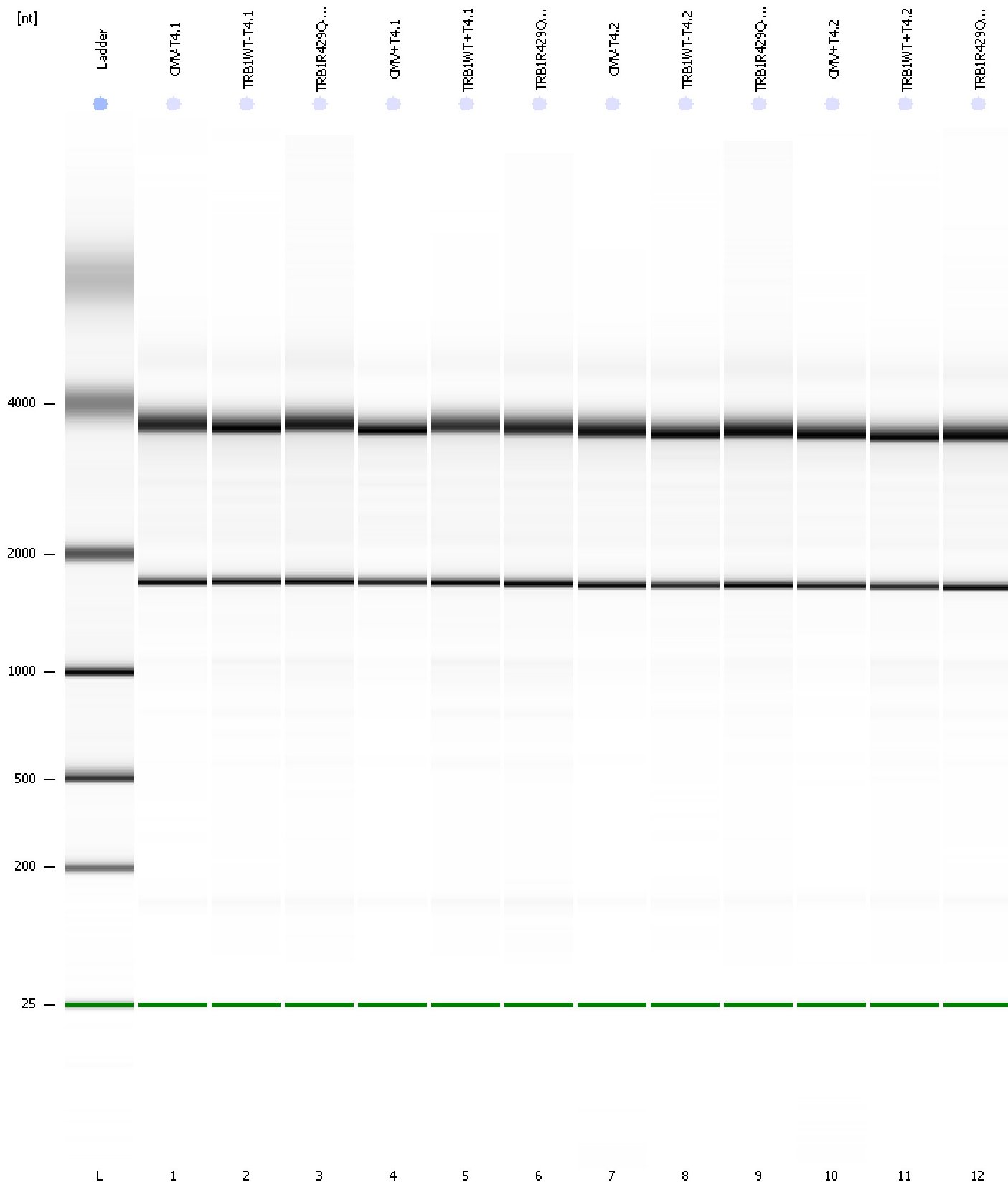
Fragment table for sample 12 : TRB1R429Q+T4.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,962	98.7	22.1
28S	3,279	4,098	190.4	42.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ts and Settings\Bioanalyzer\2015-06-05\2015-06-05_001rj.xad

Created: 6/5/2015 8:31:24 AM
Modified: 6/5/2015 9:06:18 AM

Curves

Standard Curve

