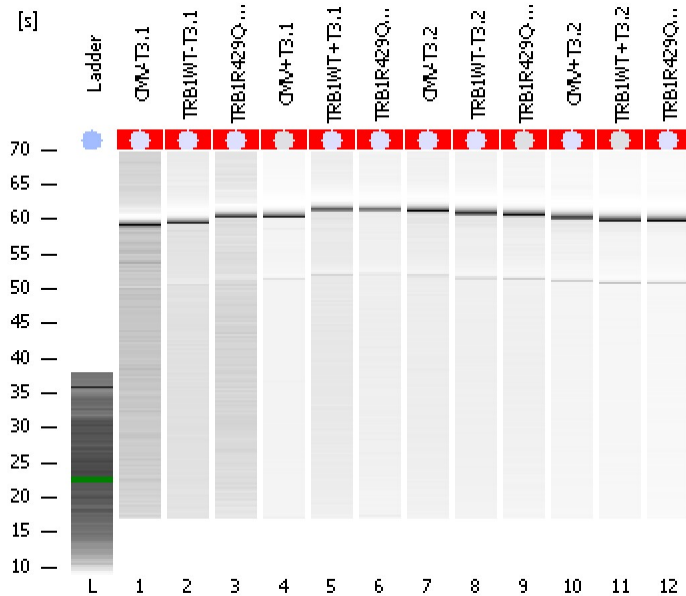


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

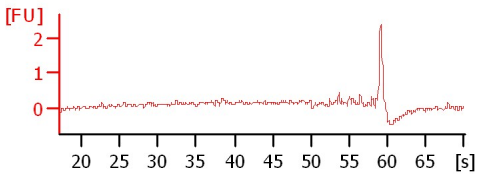
Assay Information:

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.

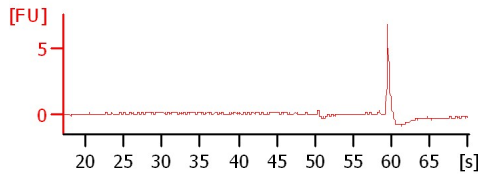
Chip Information:

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

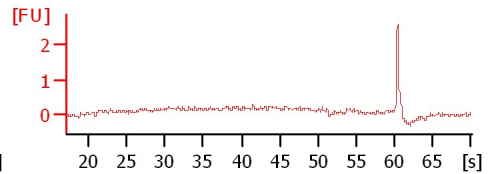
4/29/15 RJ RIN: 2.60 **CMV-T3.1**



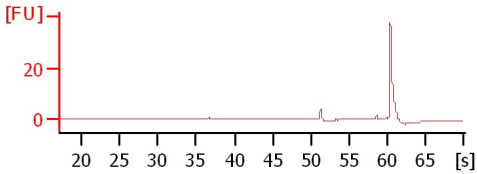
4/29/15 RJ RIN: 2.60 **TRB1WT-T3.1**



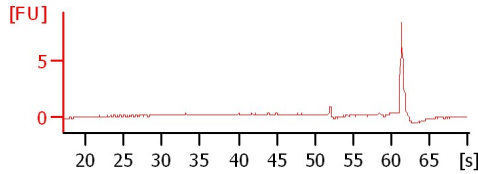
4/29/15 RJ RIN: 1.10 **TRB1R429Q-T3.1**



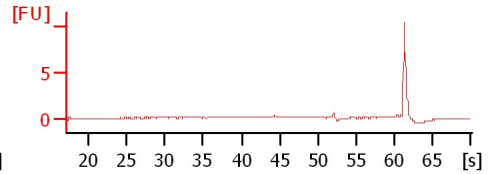
4/29/15 RJ RIN N/A **CMV+T3.1**



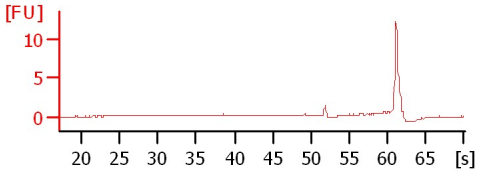
4/29/15 RJ RIN: 2.60 **TRB1WT+T3.1**



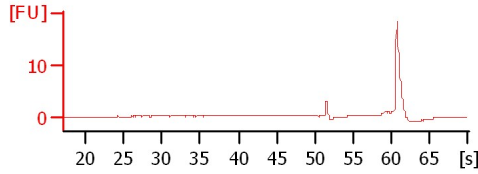
4/29/15 RJ RIN: 1.20 **TRB1R429Q+T3.1**



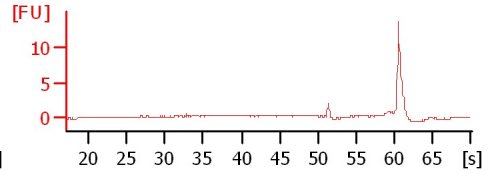
4/29/15 RJ RIN: 2.60 **CMV-T3.2**



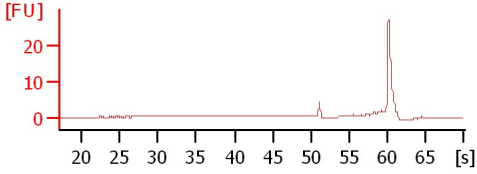
4/29/15 RJ RIN: 2.60 **TRB1WT-T3.2**



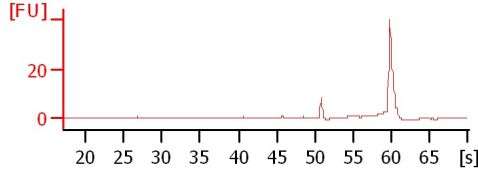
4/29/15 RJ RIN N/A **TRB1R429Q-T3.2**



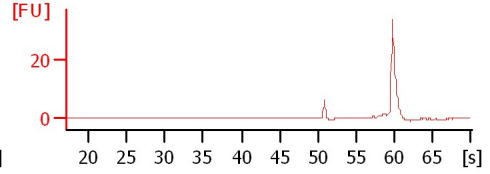
4/29/15 RJ RIN: 2.60 **CMV+T3.2**



4/29/15 RJ RIN N/A **TRB1WT+T3.2**



4/29/15 RJ RIN: 2.60 **TRB1R429Q+T3.2**



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
CMV-T3.1	4/29/15 RJ	✓	RIN: 2.60	
TRB1WT-T3.1	4/29/15 RJ	✓	RIN: 2.60	
TRB1R429Q-T3.1	4/29/15 RJ	✓	RIN: 1.10	
CMV+T3.1	4/29/15 RJ	✓	RIN N/A	
TRB1WT+T3.1	4/29/15 RJ	✓	RIN: 2.60	
TRB1R429Q+T3.1	4/29/15 RJ	✓	RIN: 1.20	
CMV-T3.2	4/29/15 RJ	✓	RIN: 2.60	
TRB1WT-T3.2	4/29/15 RJ	✓	RIN: 2.60	
TRB1R429Q-T3.2	4/29/15 RJ	✓	RIN N/A	
CMV+T3.2	4/29/15 RJ	✓	RIN: 2.60	
TRB1WT+T3.2	4/29/15 RJ	✓	RIN N/A	
TRB1R429Q+T3.2	4/29/15 RJ	✓	RIN: 2.60	
Ladder	4/29/15 RJ	✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 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

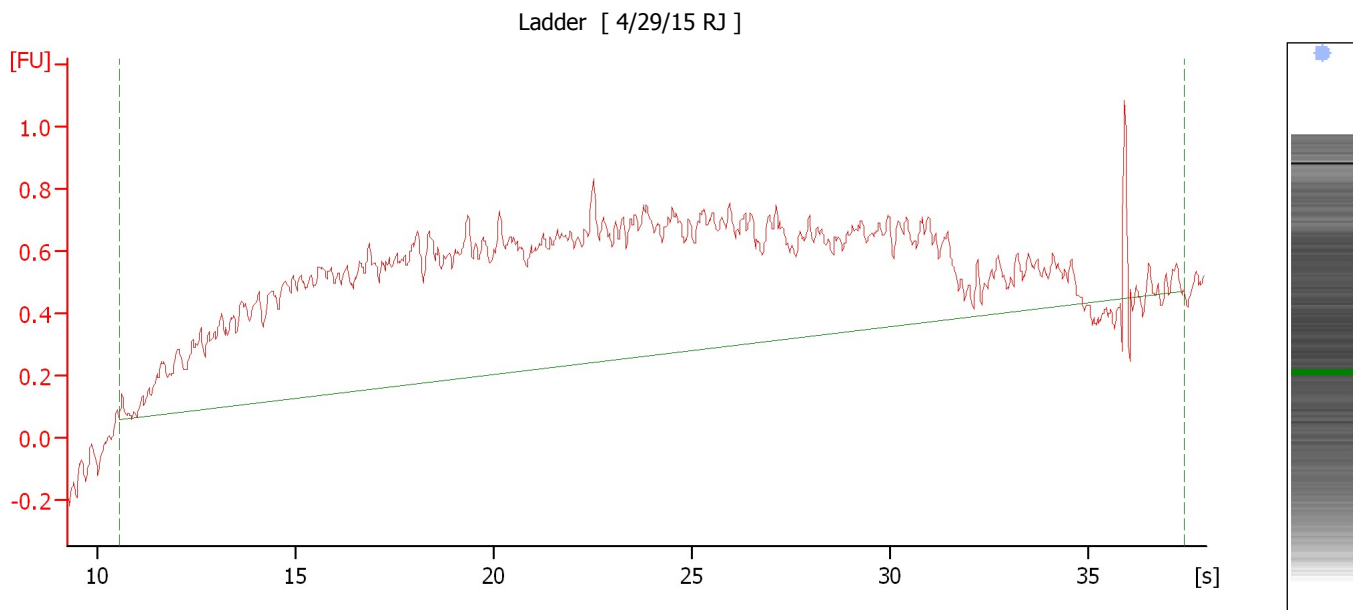
Ladder

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\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary



Overall Results for Ladder

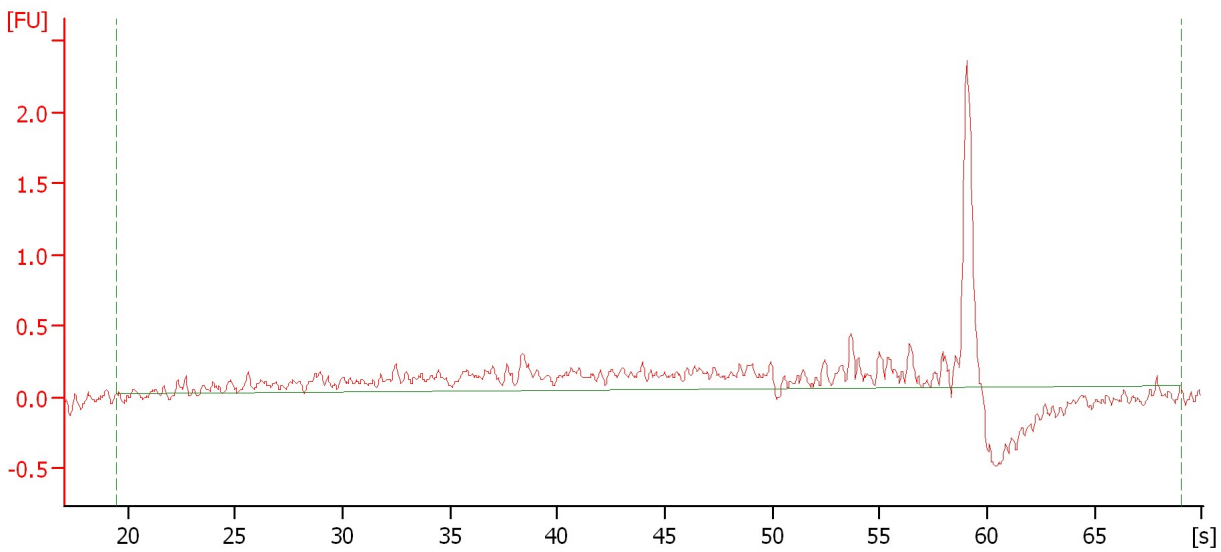
RNA Area:	33.3	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

CMV-T3.1 [4/29/15 RJ]



Overall Results for sample 1 : CMV-T3.1

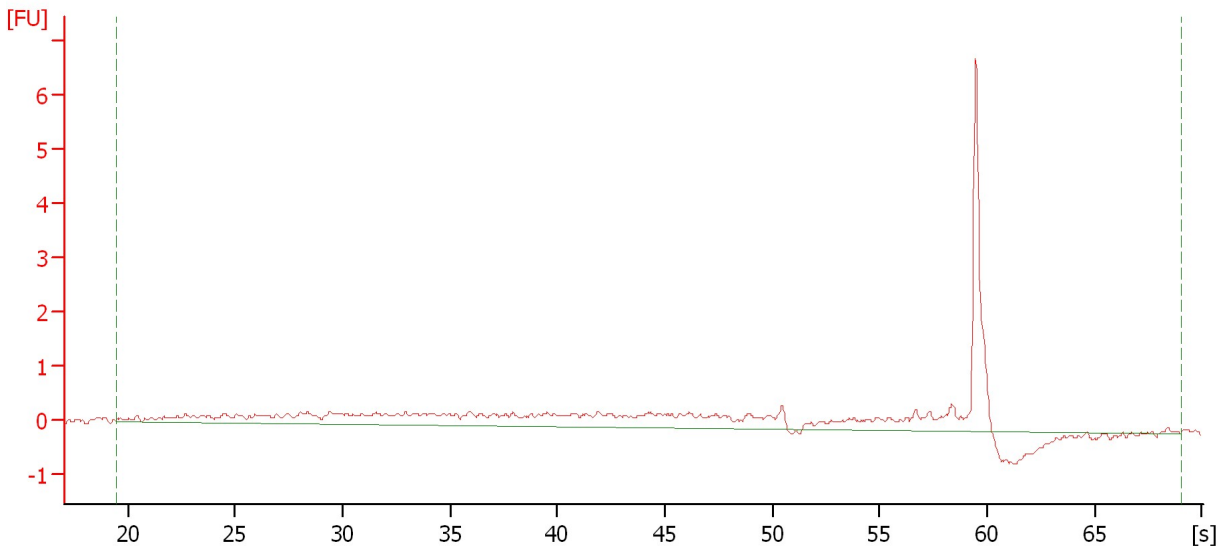
RNA Area:	10.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	47 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

TRB1WT-T3.1 [4/29/15 RJ]



Overall Results for sample 2 : TRB1WT-T3.1

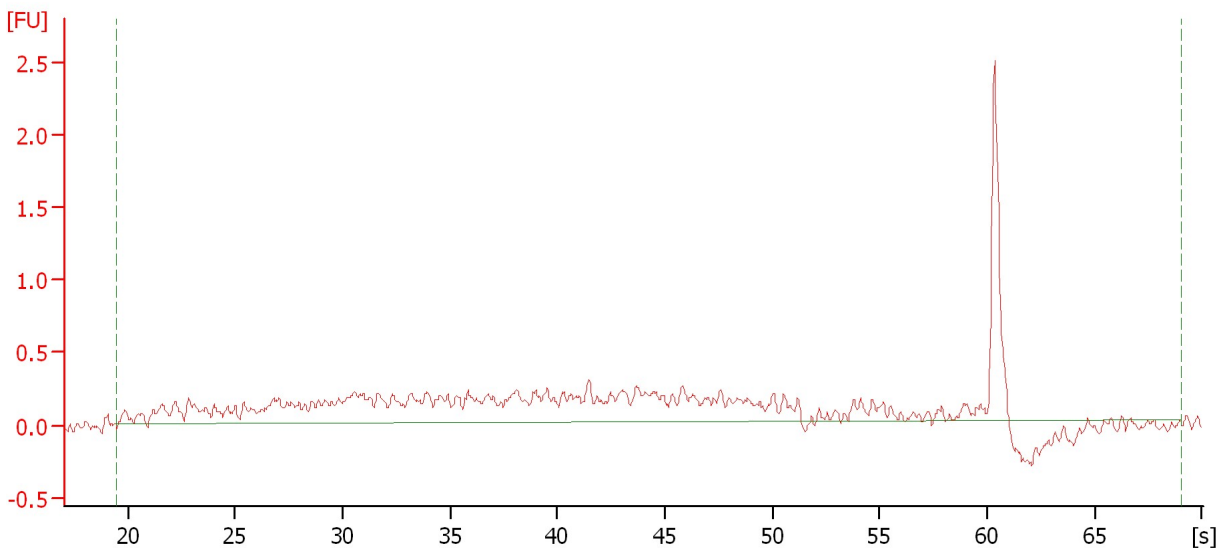
RNA Area:	22.1	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	99 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

TRB1R429Q-T3.1 [4/29/15 RJ]



Overall Results for sample 3 : TRB1R429Q-T3.1

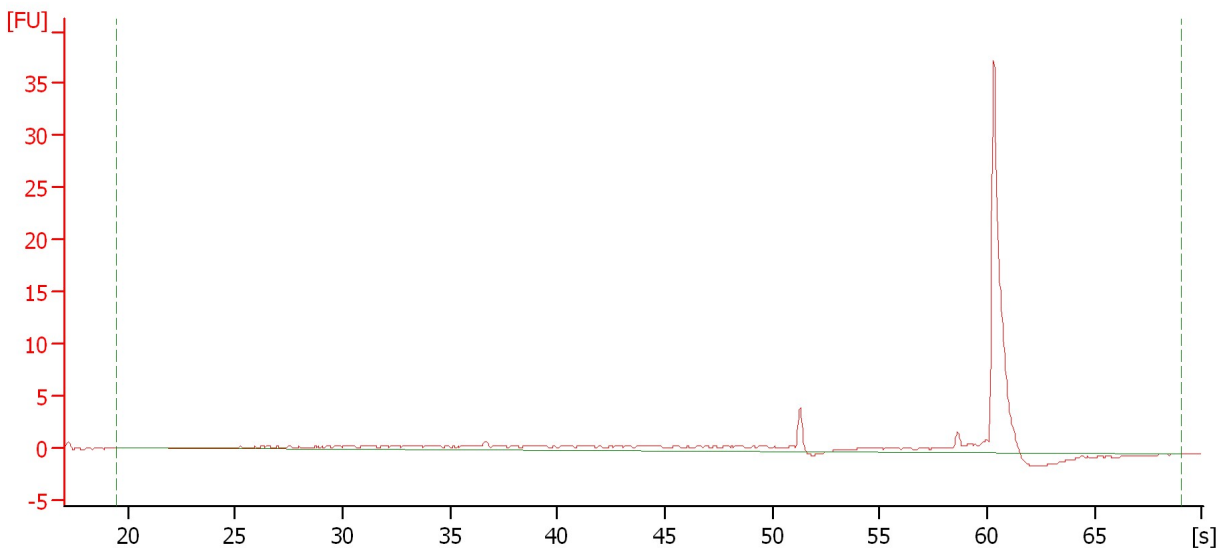
RNA Area:	14.9	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	67 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad


Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

CMV+T3.1 [4/29/15 RJ]



Overall Results for sample 4 : CMV+T3.1

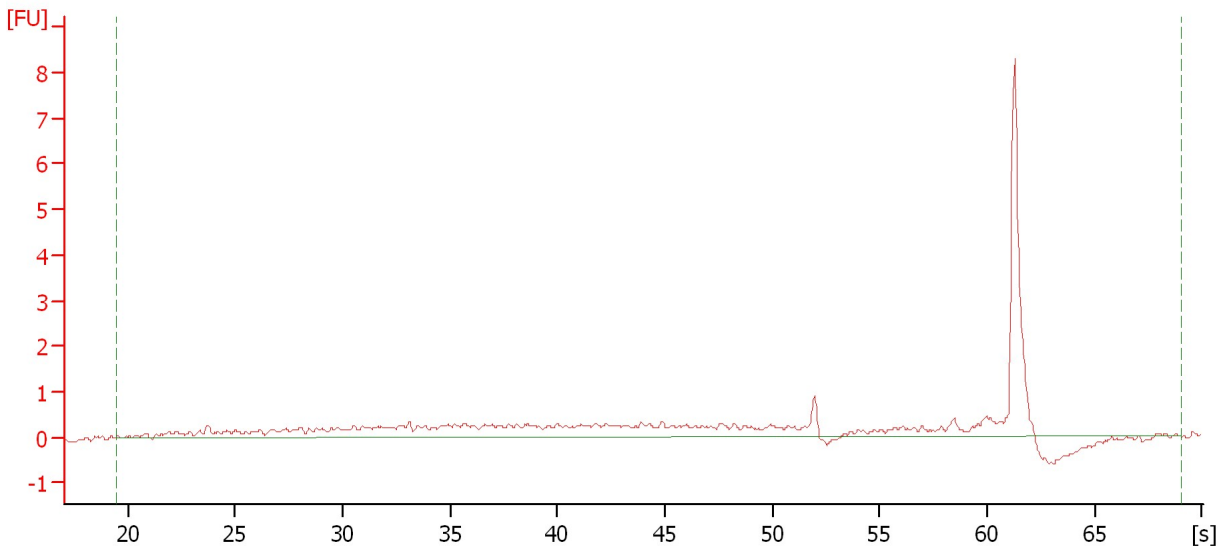
RNA Area:	59.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	266 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

TRB1WT+T3.1 [4/29/15 RJ]



Overall Results for sample 5 : TRB1WT+T3.1

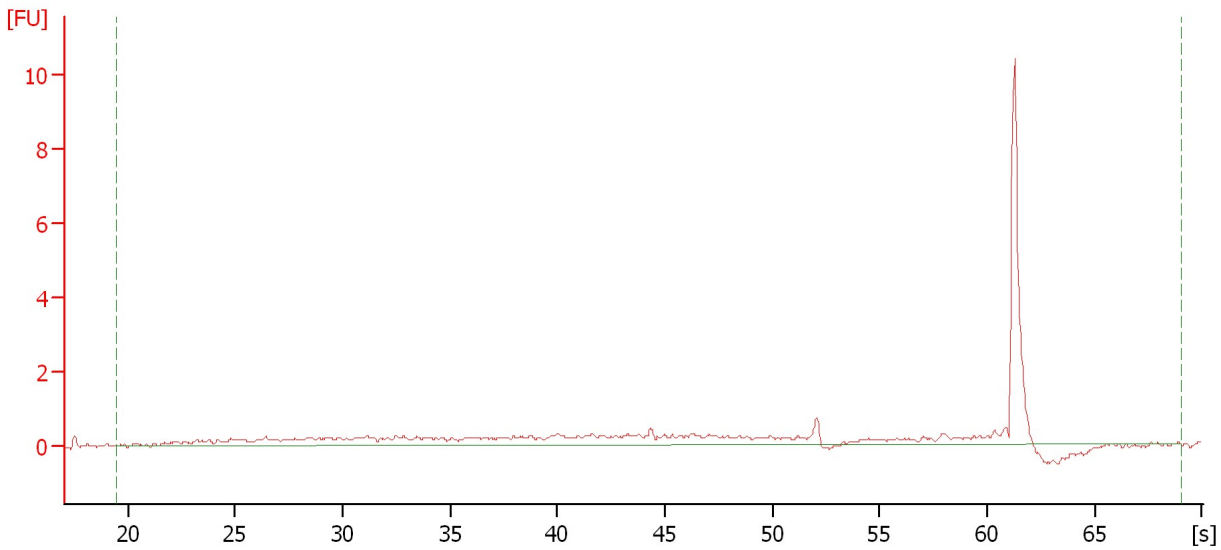
RNA Area:	24.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	112 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

TRB1R429Q+T3.1 [4/29/15 RJ]



Overall Results for sample 6 : TRB1R429Q+T3.1

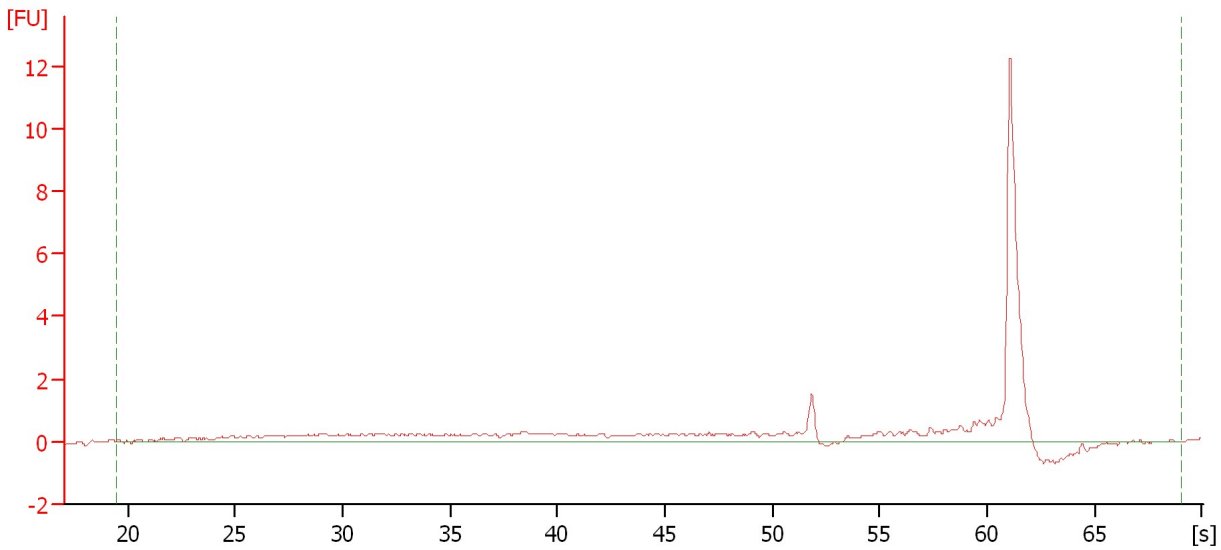
RNA Area:	23.0	RNA Integrity Number (RIN):	1.2 (B.02.08)
RNA Concentration:	104 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

CMV-T3.2 [4/29/15 RJ]



Overall Results for sample 7 : CMV-T3.2

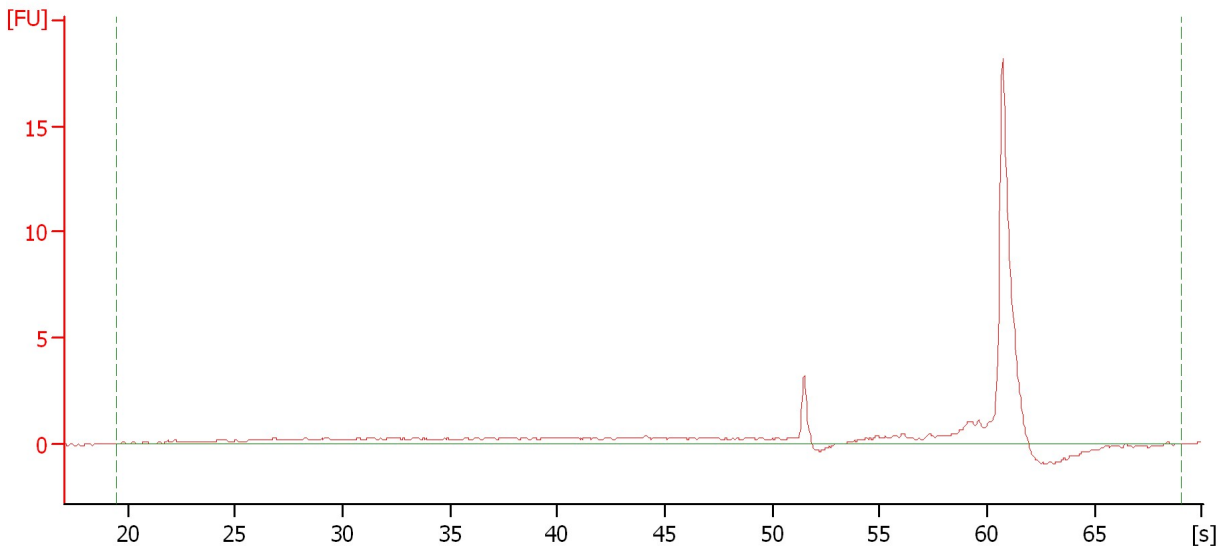
RNA Area:	32.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	148 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

TRB1WT-T3.2 [4/29/15 RJ]



Overall Results for sample 8 : TRB1WT-T3.2

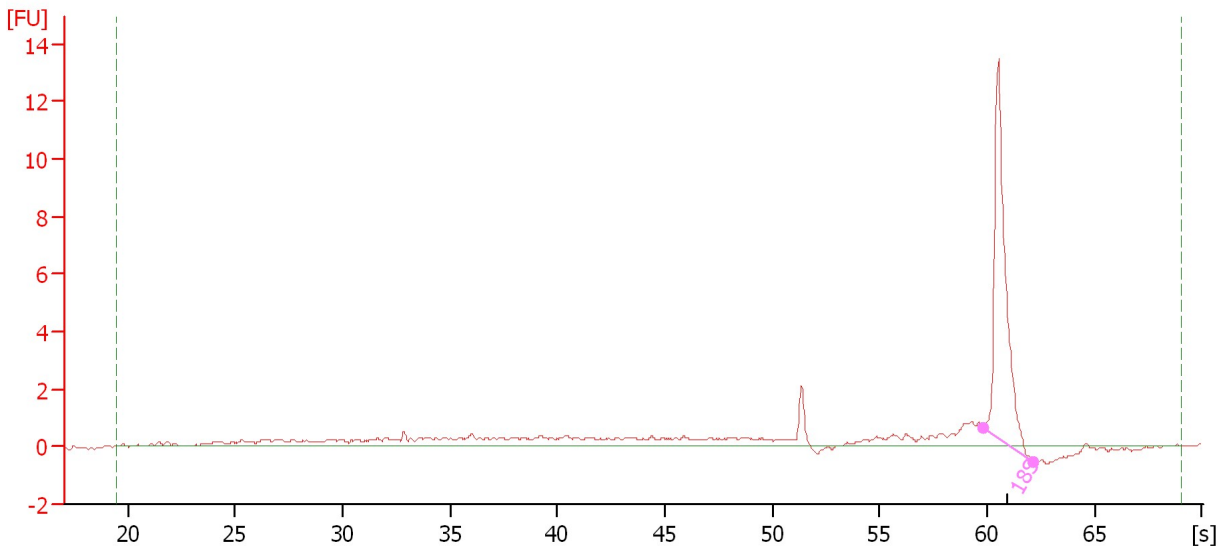
RNA Area:	43.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	194 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

TRB1R429Q-T3.2 [4/29/15 RJ]



Overall Results for sample 9 : TRB1R429Q-T3.2

RNA Area:	34.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	153 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 9 : TRB1R429Q-T3.2

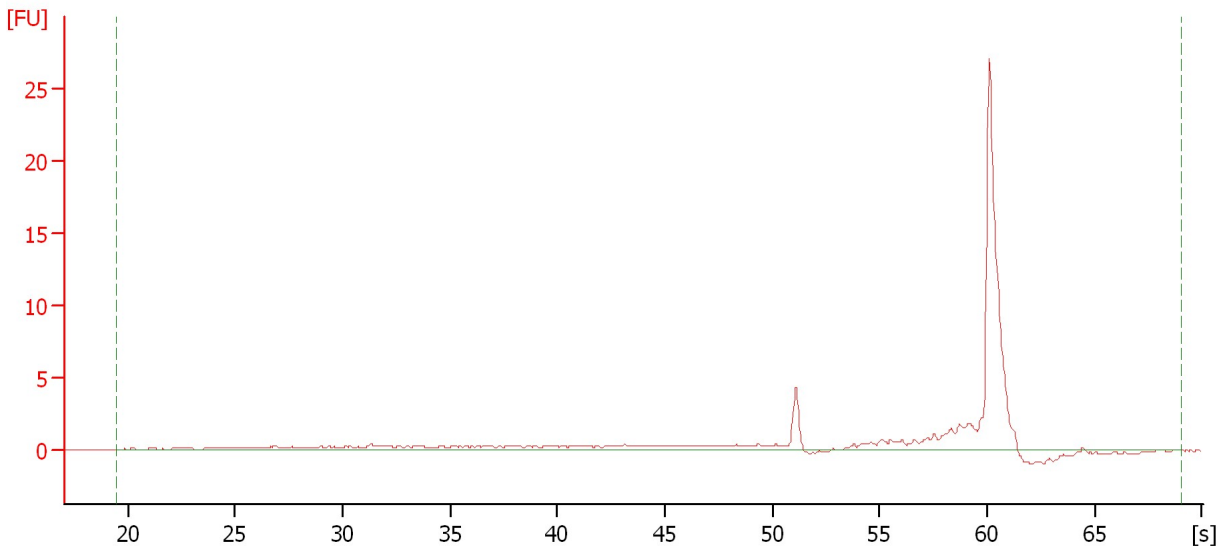
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	9,437	9,961	12.4	36.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

CMV+T3.2 [4/29/15 RJ]



Overall Results for sample 10 : CMV+T3.2

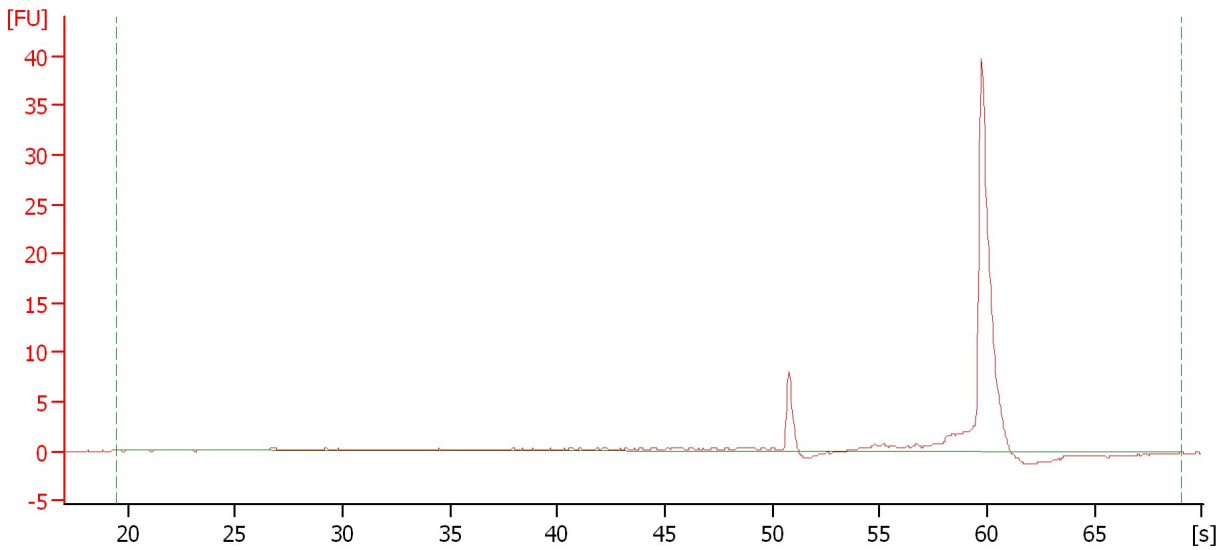
RNA Area:	55.1	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	248 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

TRB1WT+T3.2 [4/29/15 RJ]



Overall Results for sample 11 : TRB1WT+T3.2

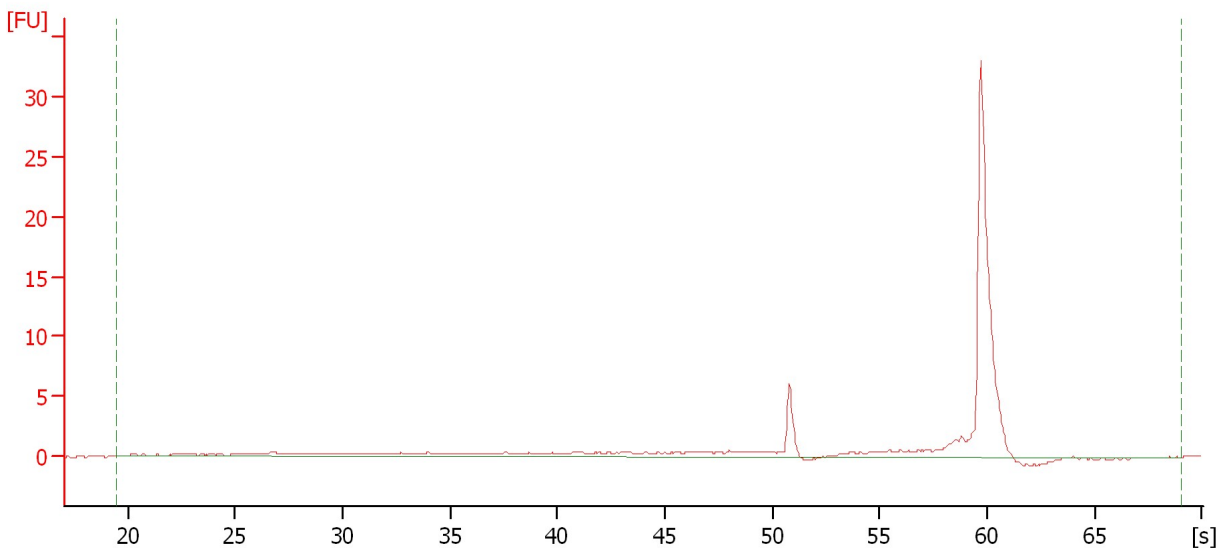
RNA Area:	67.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	305 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Electropherogram Summary Continued ...

TRB1R429Q+T3.2 [4/29/15 RJ]



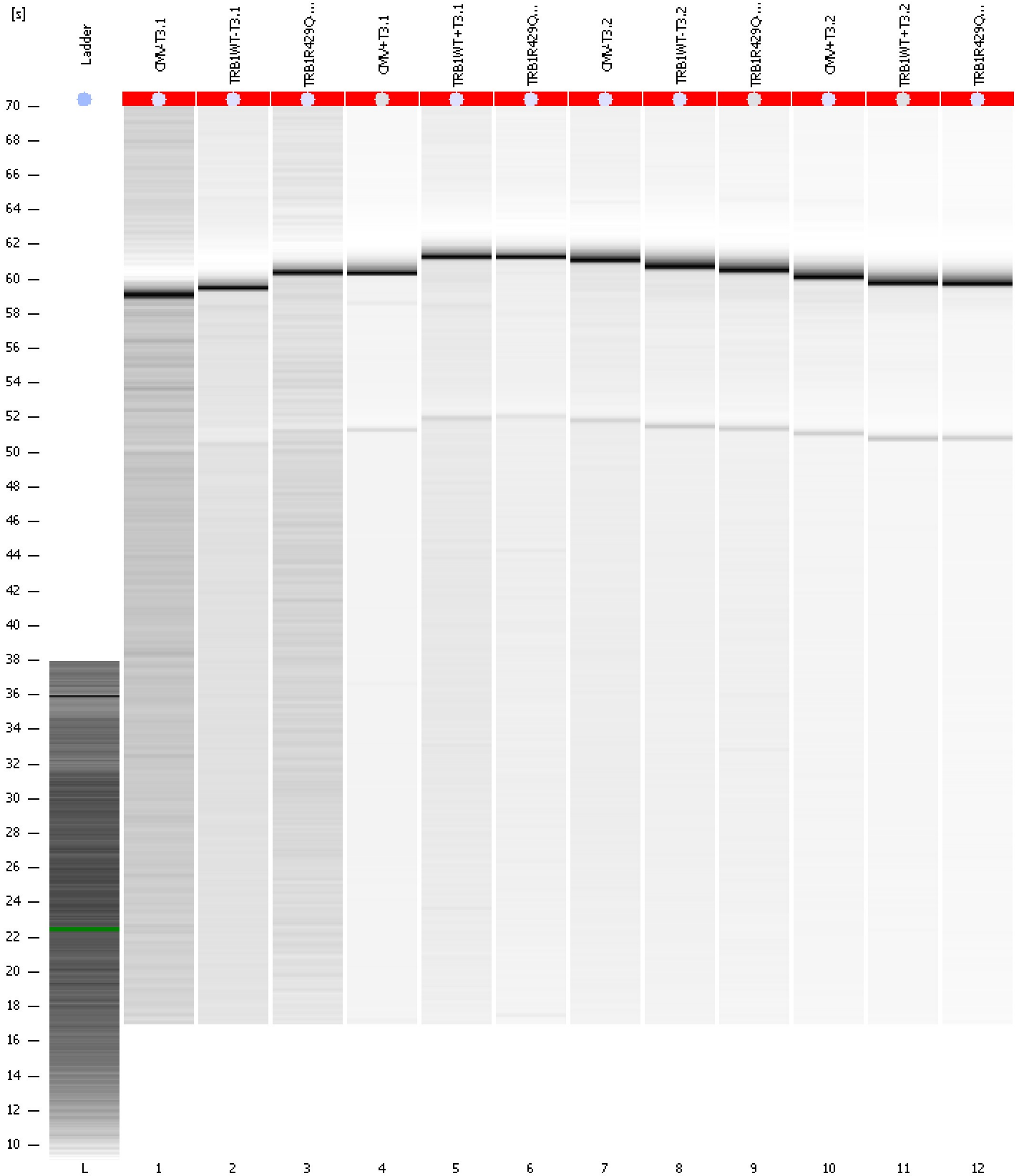
Overall Results for sample 12 : TRB1R429Q+T3.2

RNA Area:	63.1	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	284 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
Modified: 4/29/2015 3:58:07 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad

Created: 4/29/2015 3:33:56 PM
 Modified: 4/29/2015 3:58:07 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		4/29/2015 3:57:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-04-29\2015-04-29_004.xad)		Instrument	Run		4/29/2015 3:34:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/29/2015 3:34:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/29/2015 3:34:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/29/2015 3:34:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/29/2015 3:34:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/29/2015 3:34:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/29/2015 3:34:02 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1