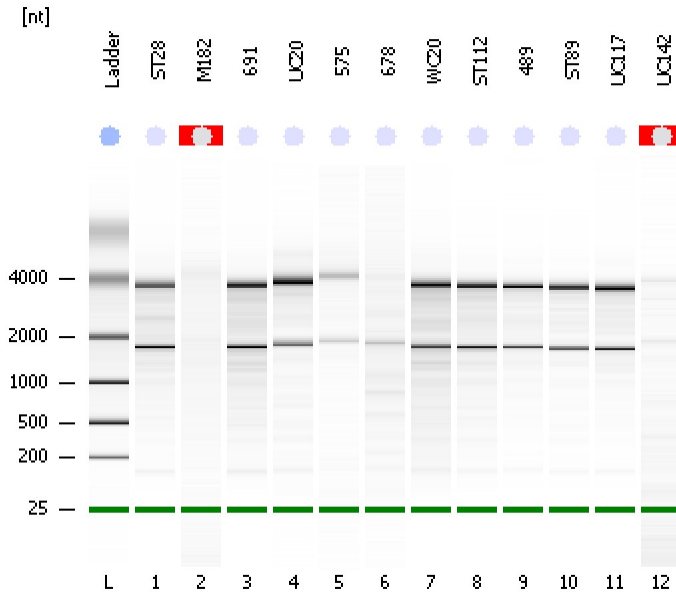


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electrophoresis File Run Summary



Instrument Information:

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

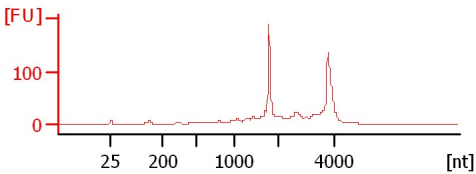
Assay Information:

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.

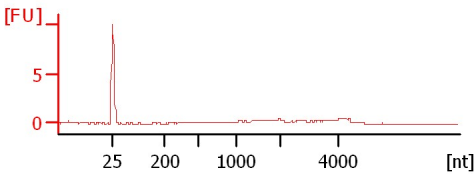
Chip Information:

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

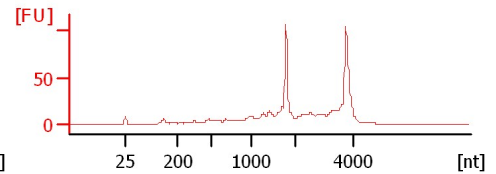
ST28
RIN: 7.60



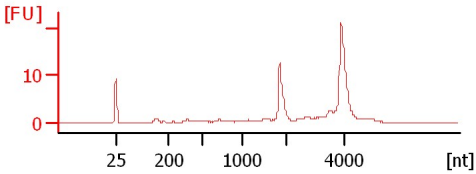
M182
RIN N/A



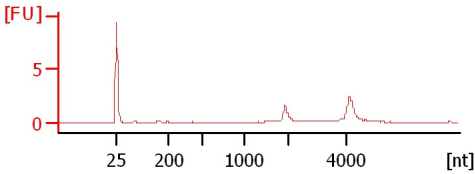
691
RIN: 7.50



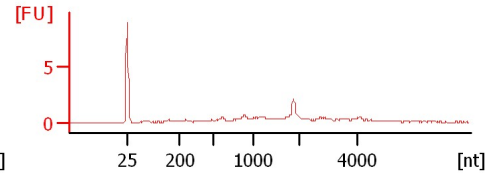
UC20
RIN: 8.90



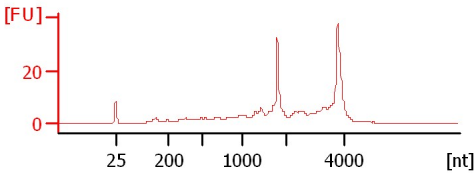
575
RIN: 8.70



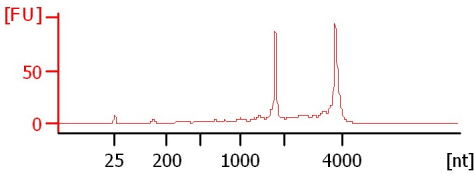
678
RIN: 6.40



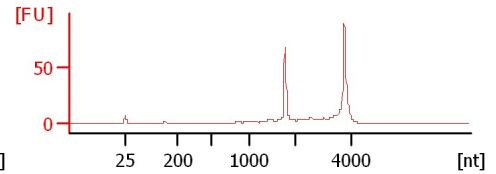
WC20
RIN: 7.30



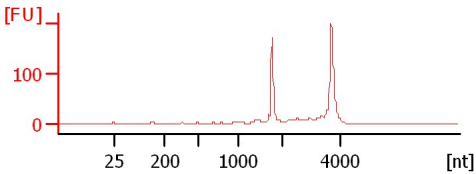
ST112
RIN: 7.80



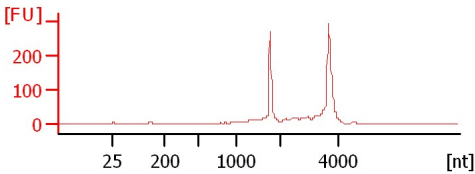
489
RIN: 8.50



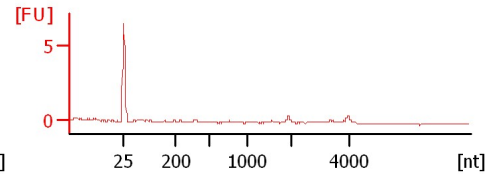
ST89
RIN: 8.70



UC117
RIN: 8.50



UC142
RIN N/A



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ST28		✓	RIN: 7.60	
M182		✓	RIN N/A	
691		✓	RIN: 7.50	
UC20		✓	RIN: 8.90	
575		✓	RIN: 8.70	
678		✓	RIN: 6.40	
WC20		✓	RIN: 7.30	
ST112		✓	RIN: 7.80	
489		✓	RIN: 8.50	
ST89		✓	RIN: 8.70	
UC117		✓	RIN: 8.50	
UC142		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ l] : 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

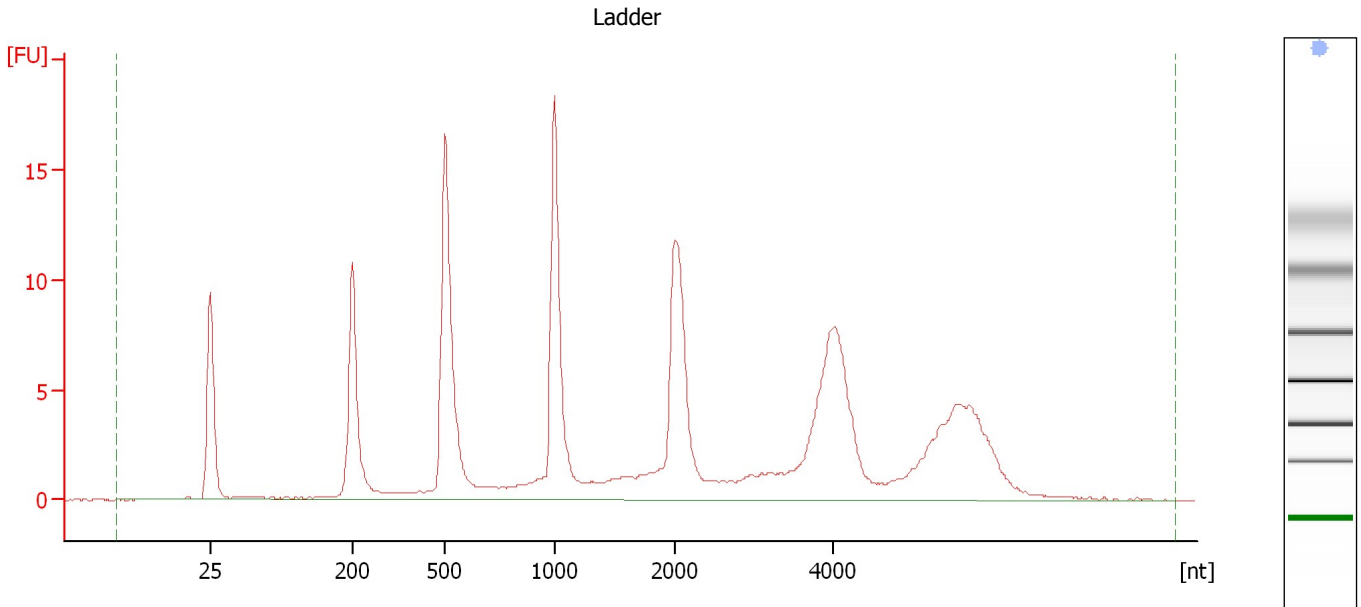
Ladder

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\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary



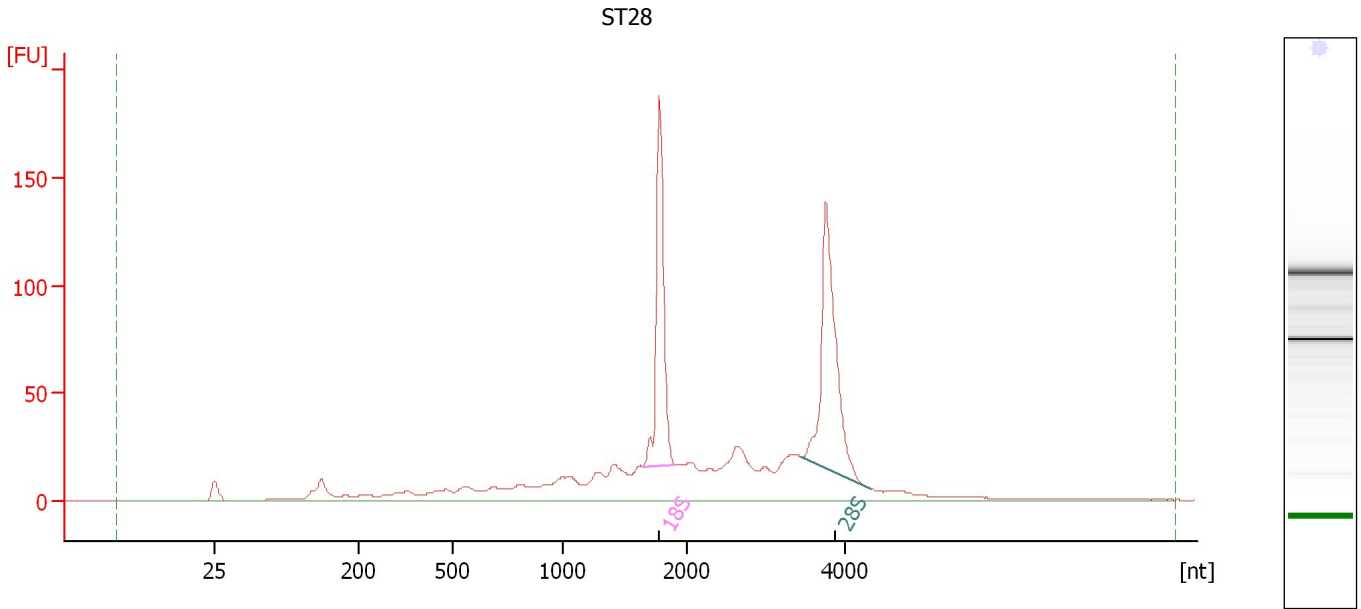
Overall Results for Ladder

RNA Area:	173.5	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\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ST28

RNA Area:	973.1	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	841 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.60

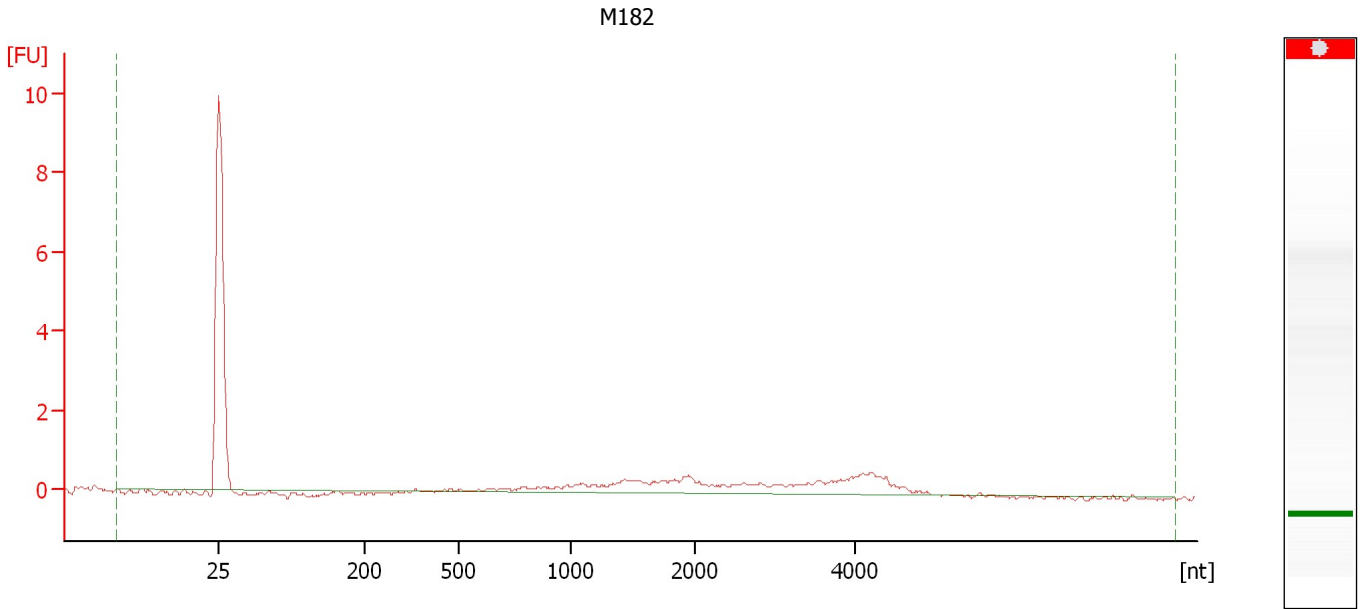
Fragment table for sample 1 : ST28

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,916	144.4	14.8
28S	3,450	4,305	182.8	18.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



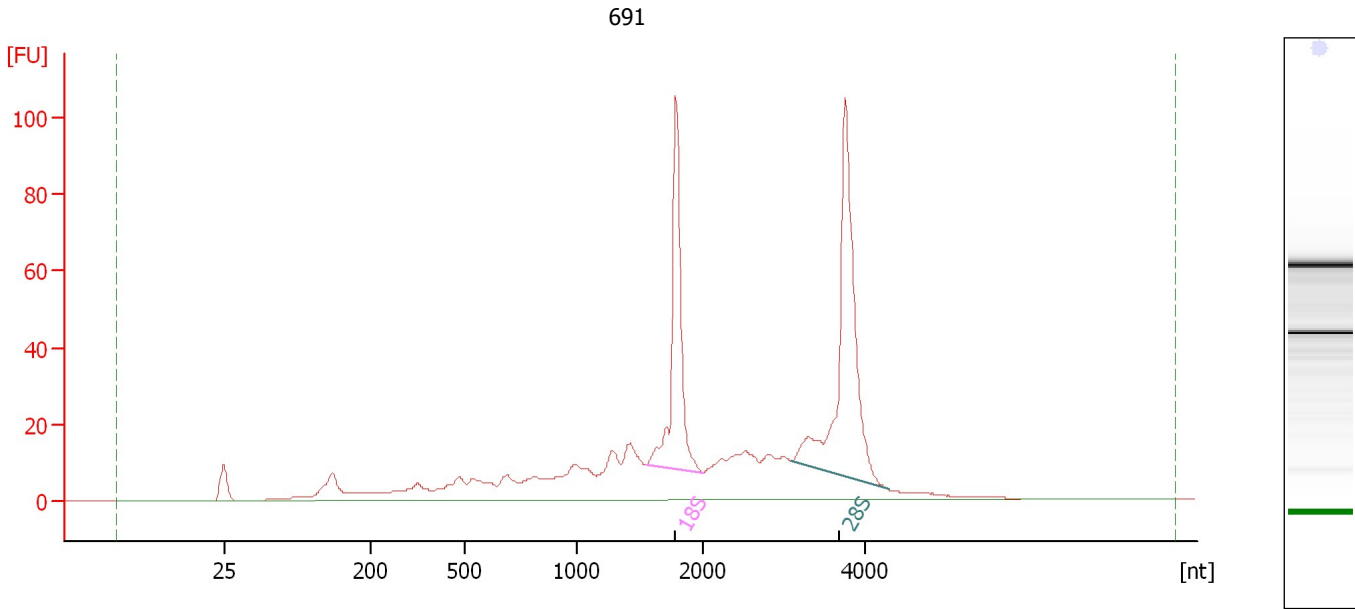
Overall Results for sample 2 : M182

RNA Area:	11.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 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\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 691

RNA Area: 684.6 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 592 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 7.50

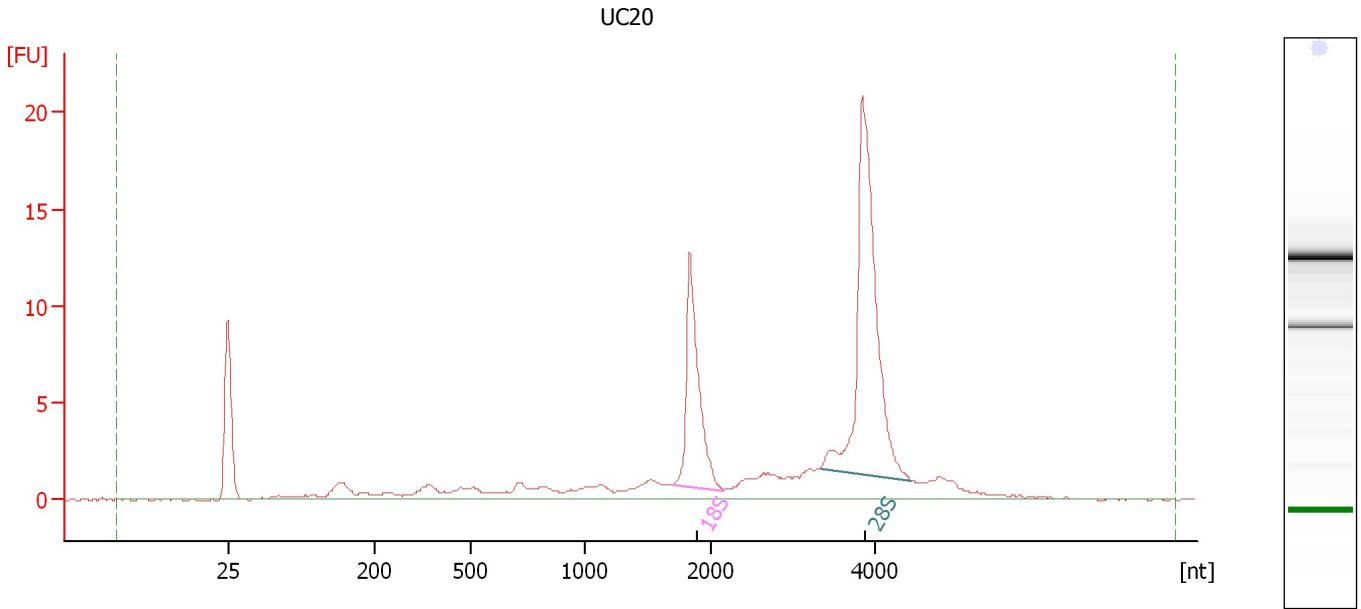
Fragment table for sample 3 : 691

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,548	2,001	99.2	14.5
28S	3,093	4,290	156.4	22.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : UC20

RNA Area: 104.6 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 90 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 8.90

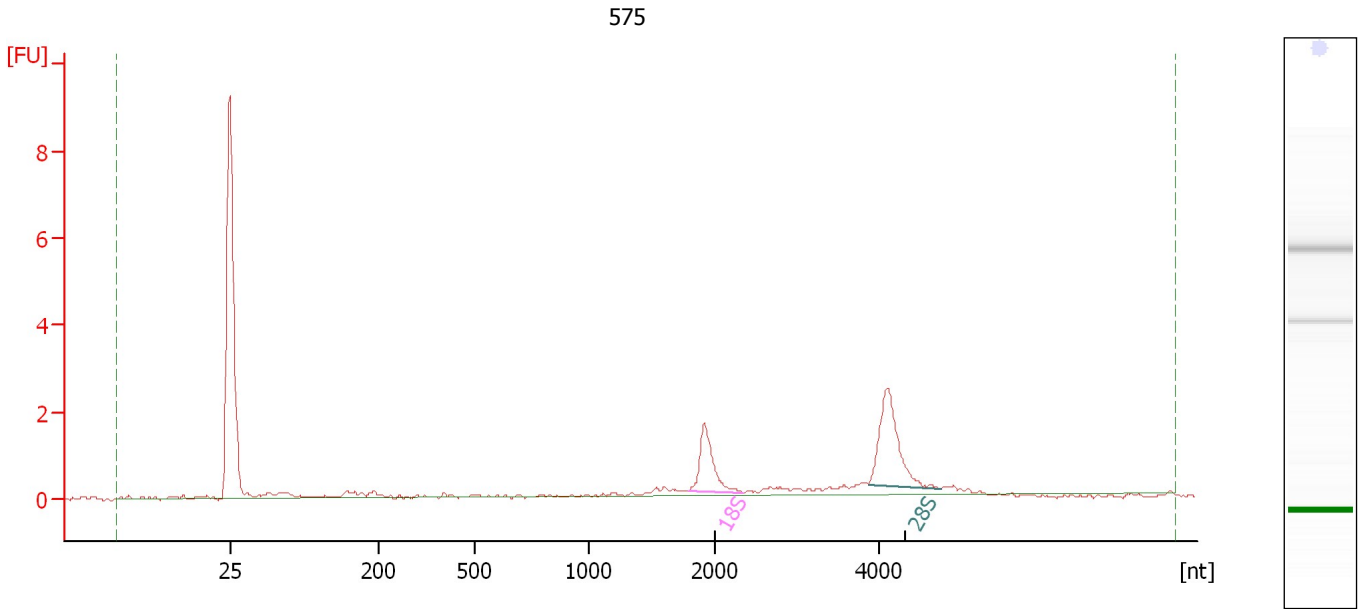
Fragment table for sample 4 : UC20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,698	2,162	16.6	15.9
28S	3,336	4,459	35.3	33.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 575

RNA Area: 13.4 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 12 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.70

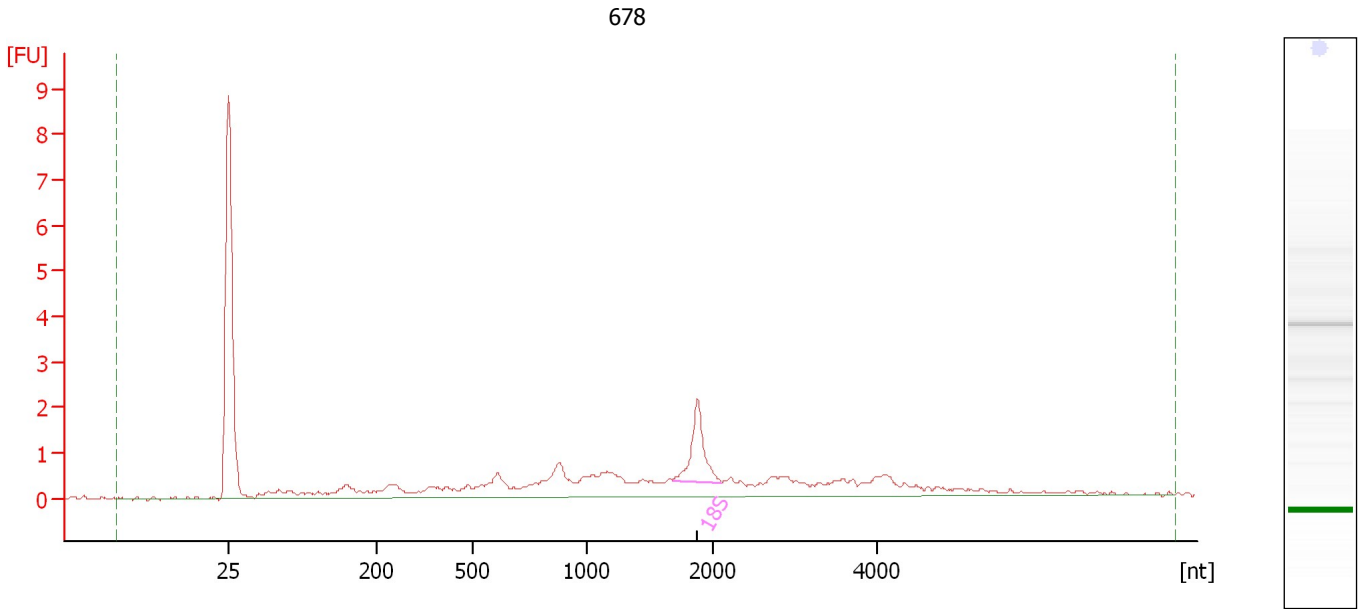
Fragment table for sample 5 : 575

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,794	2,346	2.4	17.8
28S	3,866	4,750	4.0	30.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 678

RNA Area:	25.1	RNA Integrity Number (RIN):	6.4 (B.02.08)
RNA Concentration:	22 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.40

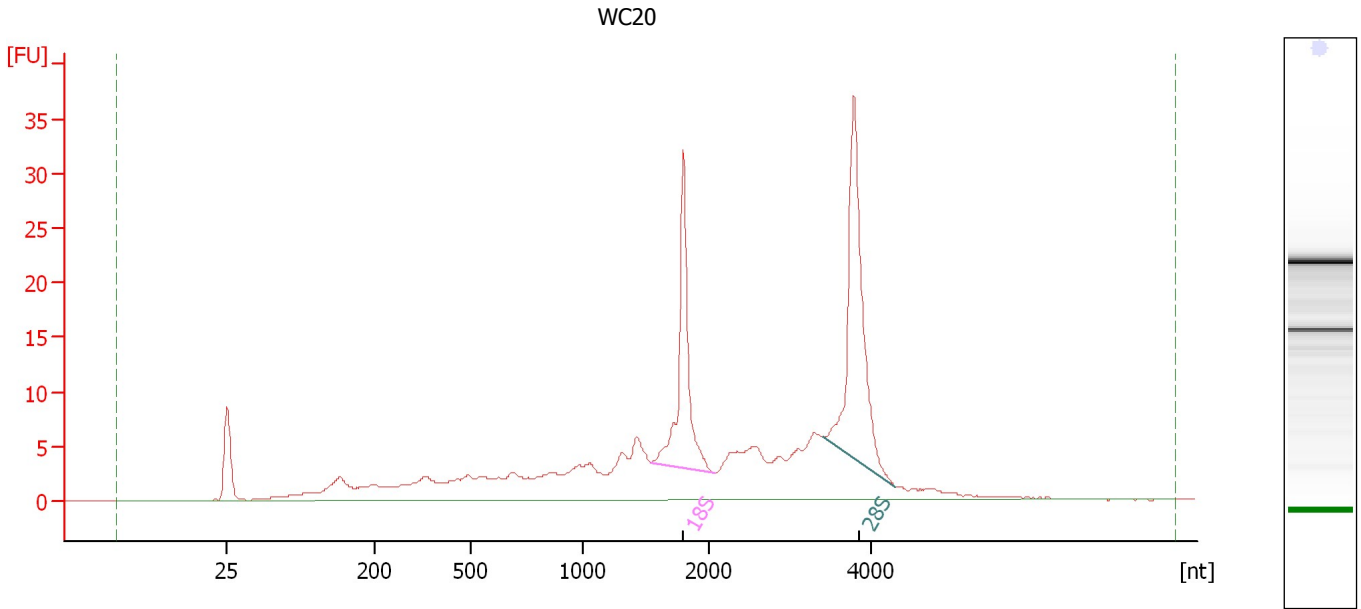
Fragment table for sample 6 : 678

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,683	2,111	2.5	10.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WC20

RNA Area:	265.2	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	229 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.30

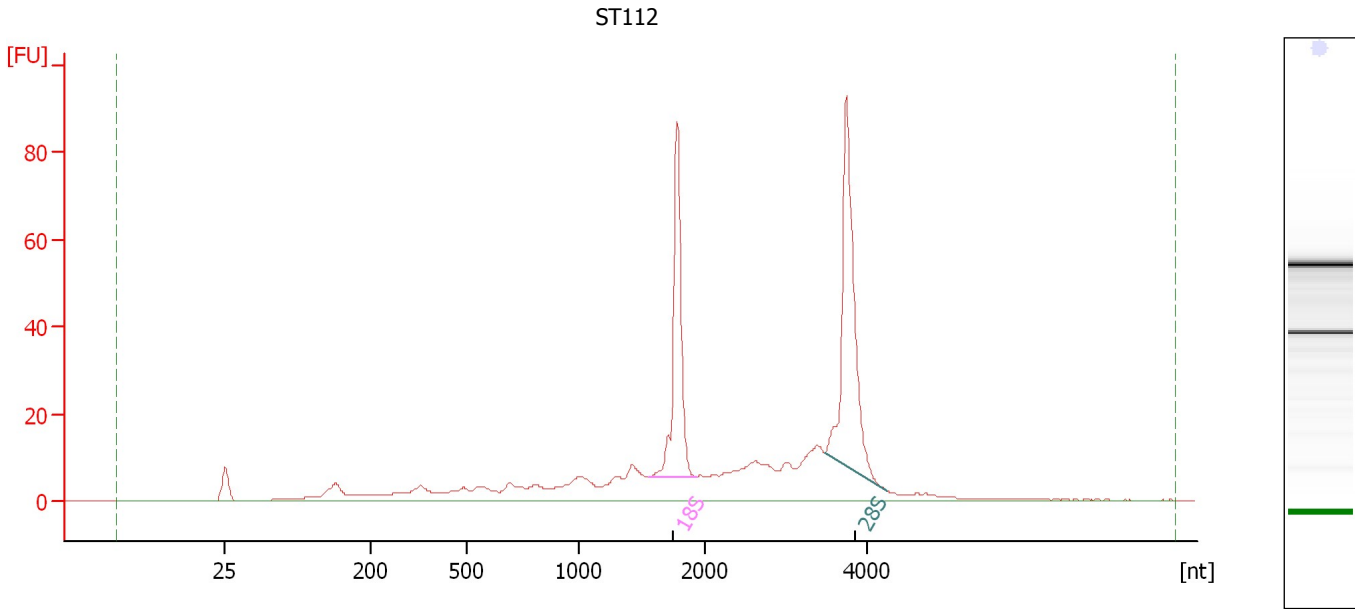
Fragment table for sample 7 : WC20

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,536	2,070	31.6	11.9
28S	3,403	4,279	45.5	17.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
 Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ST112

RNA Area:	469.6	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	406 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.80

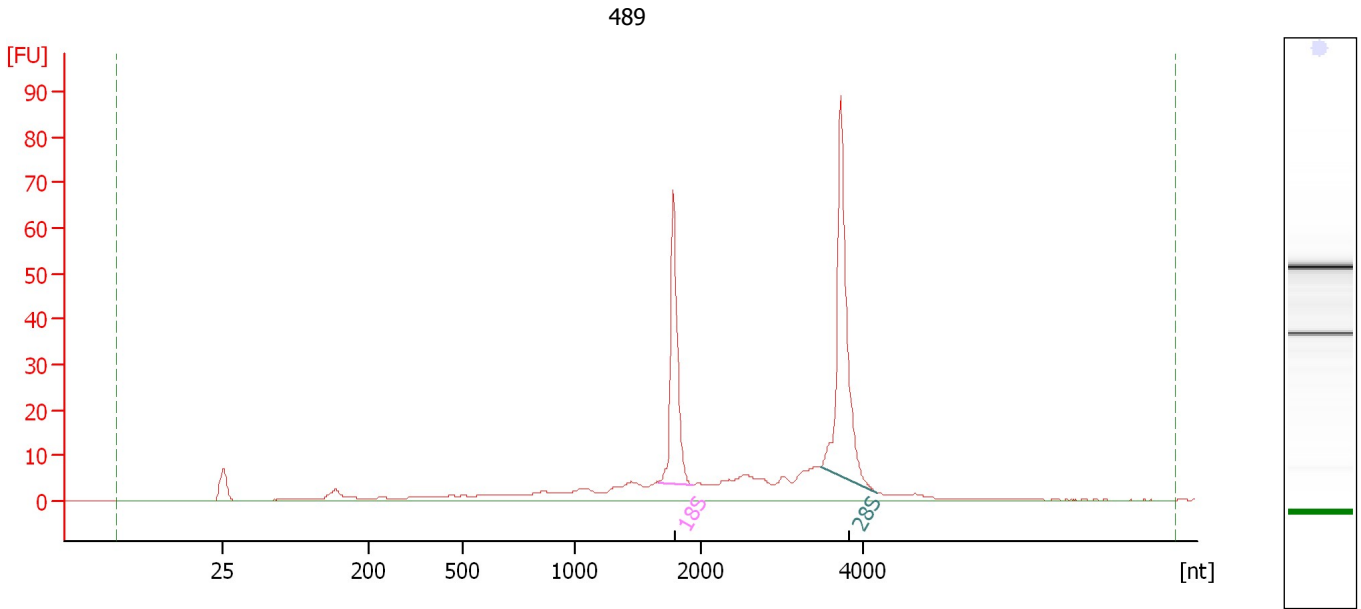
Fragment table for sample 8 : ST112

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,558	1,933	71.3	15.2
28S	3,473	4,247	100.4	21.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 489

RNA Area: 298.4 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 258 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.50

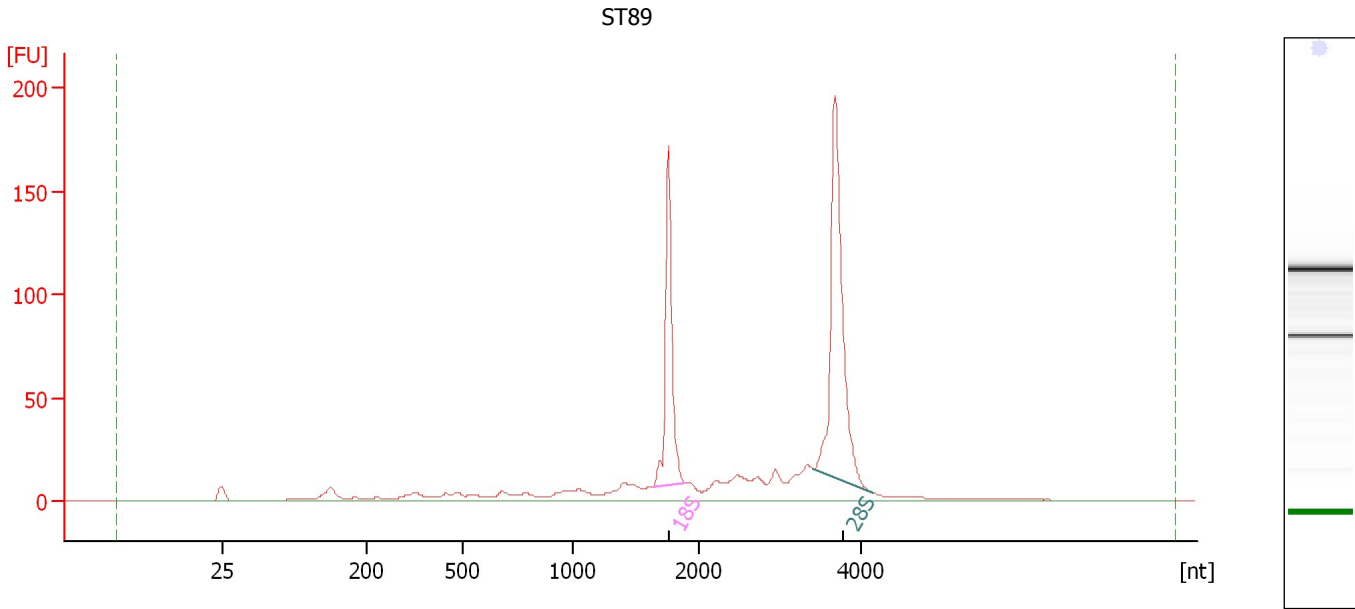
Fragment table for sample 9 : 489

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,940	51.0	17.1
28S	3,476	4,175	82.2	27.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : ST89

RNA Area:	704.7	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	609 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.70

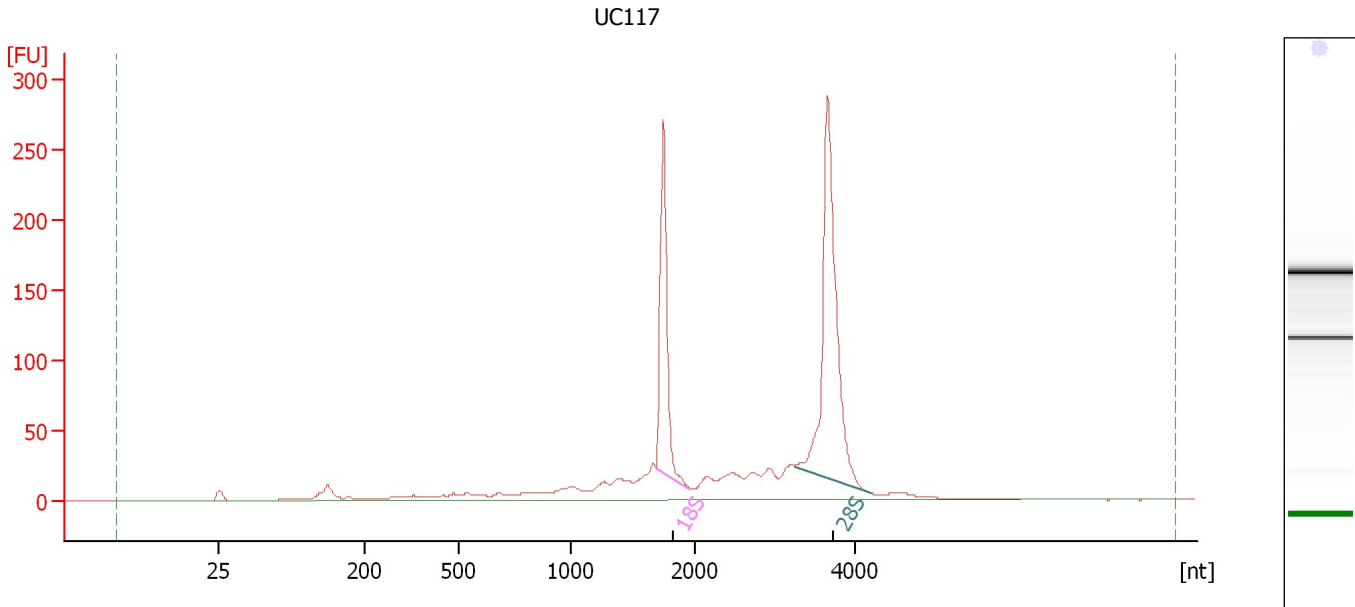
Fragment table for sample 10 : ST89

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,896	130.6	18.5
28S	3,425	4,152	212.7	30.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
 Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : UC117

RNA Area:	1,185.4	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	1,025 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.50

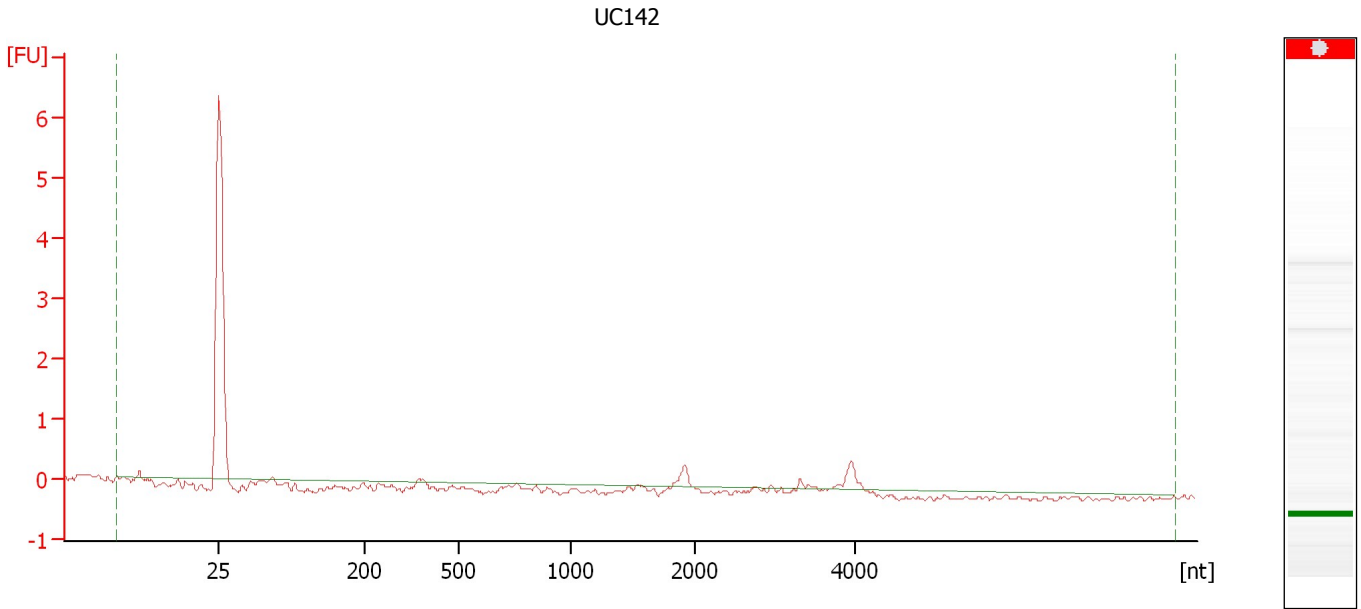
Fragment table for sample 11 : UC117

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	1,963	193.6	16.3
28S	3,243	4,185	373.2	31.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Electropherogram Summary Continued ...



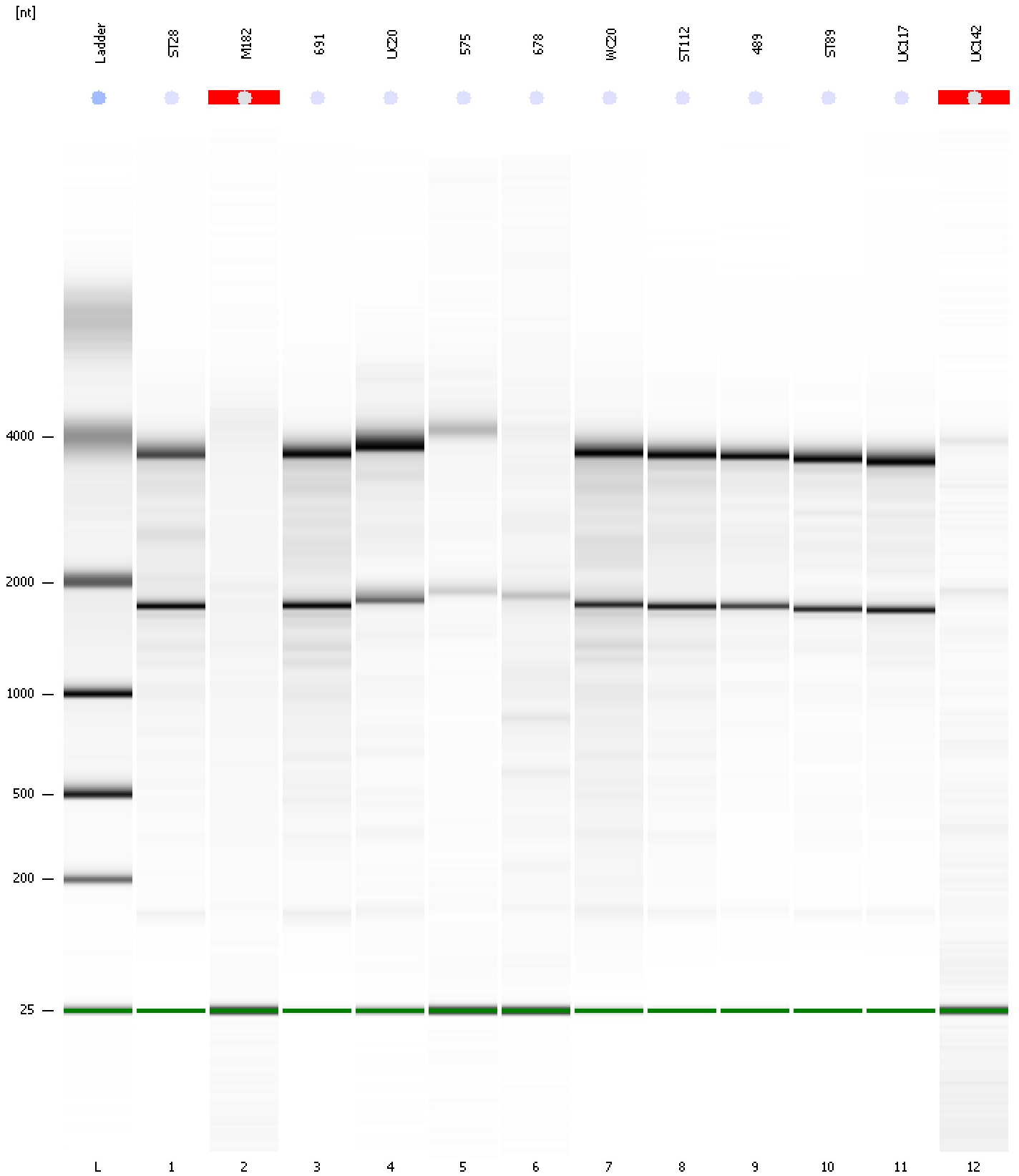
Overall Results for sample 12 : UC142

RNA Area:	1.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/ μ l	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\2016-02-01\2016-02-01_001.xad

Created: 2/1/2016 11:55:46 AM
Modified: 2/1/2016 12:19:36 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 2/1/2016 11:55:46 AM
 Data Path: C:\...ents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad Modified: 2/1/2016 12:19:36 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		2/1/2016 12:19:34 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-02-01\2016-02-01_001.xad)		Instrument	Run		2/1/2016 11:55:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/1/2016 11:55:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/1/2016 11:55:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/1/2016 11:55:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/1/2016 11:55:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/1/2016 11:55:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/1/2016 11:55:51 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1