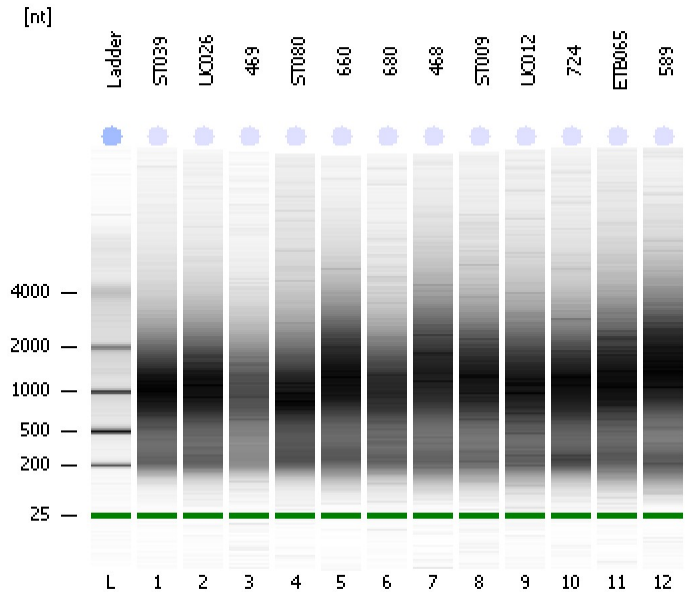


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electrophoresis File Run Summary



Instrument Information:

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

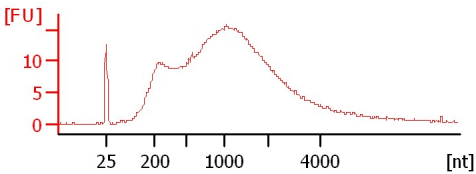
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

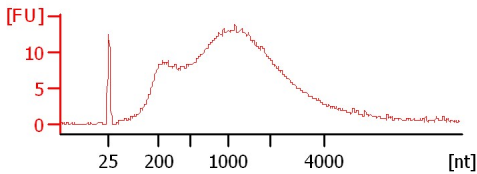
Chip Information:

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

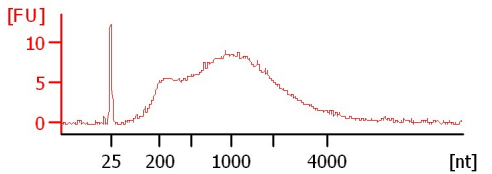
ST039
RIN: 2.70



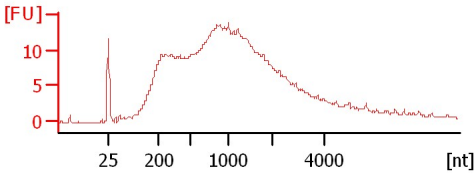
UC026
RIN: 2.40



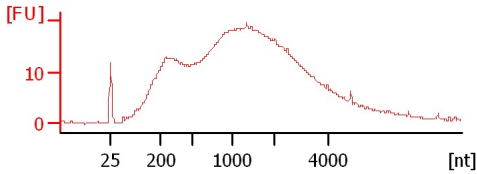
469
RIN: 2.40



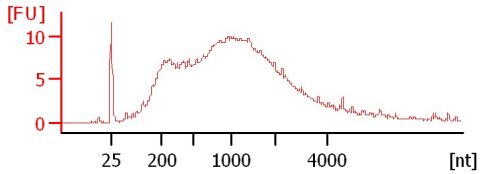
ST080
RIN: 2.40



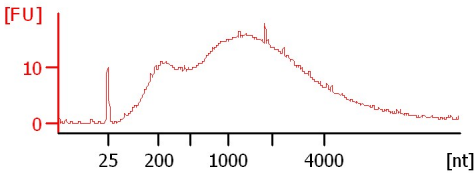
660
RIN: 2.80



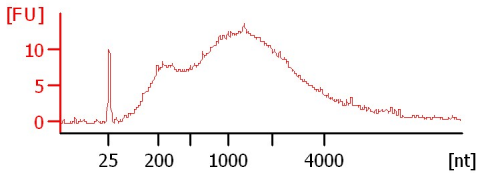
680
RIN: 2.70



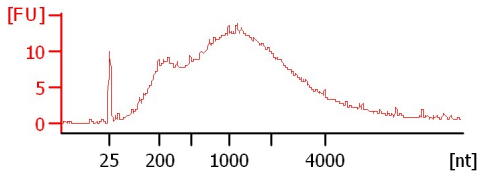
468
RIN: 2.40



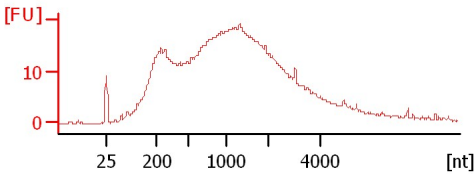
ST009
RIN: 2.30



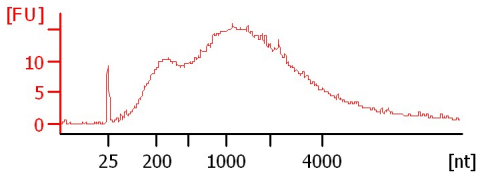
UC012
RIN: 2.40



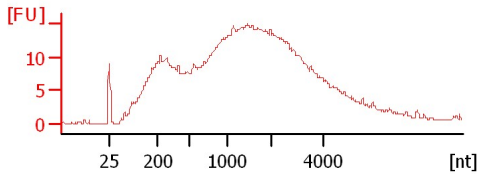
724
RIN: 3.80



ETB065
RIN: 2.50



589
RIN: 2.40



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
ST039		✓	RIN: 2.70	
UC026		✓	RIN: 2.40	
469		✓	RIN: 2.40	
ST080		✓	RIN: 2.40	
660		✓	RIN: 2.80	
680		✓	RIN: 2.70	
468		✓	RIN: 2.40	
ST009		✓	RIN: 2.30	
UC012		✓	RIN: 2.40	
724		✓	RIN: 3.80	
ETB065		✓	RIN: 2.50	
589		✓	RIN: 2.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 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

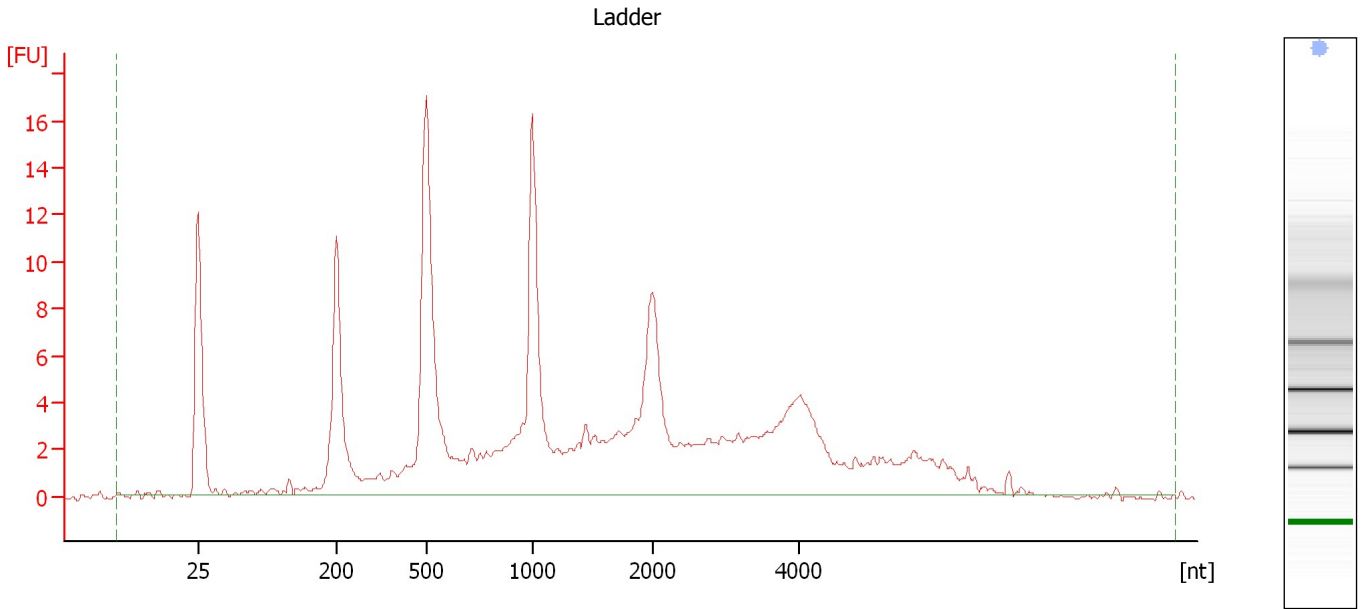
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary



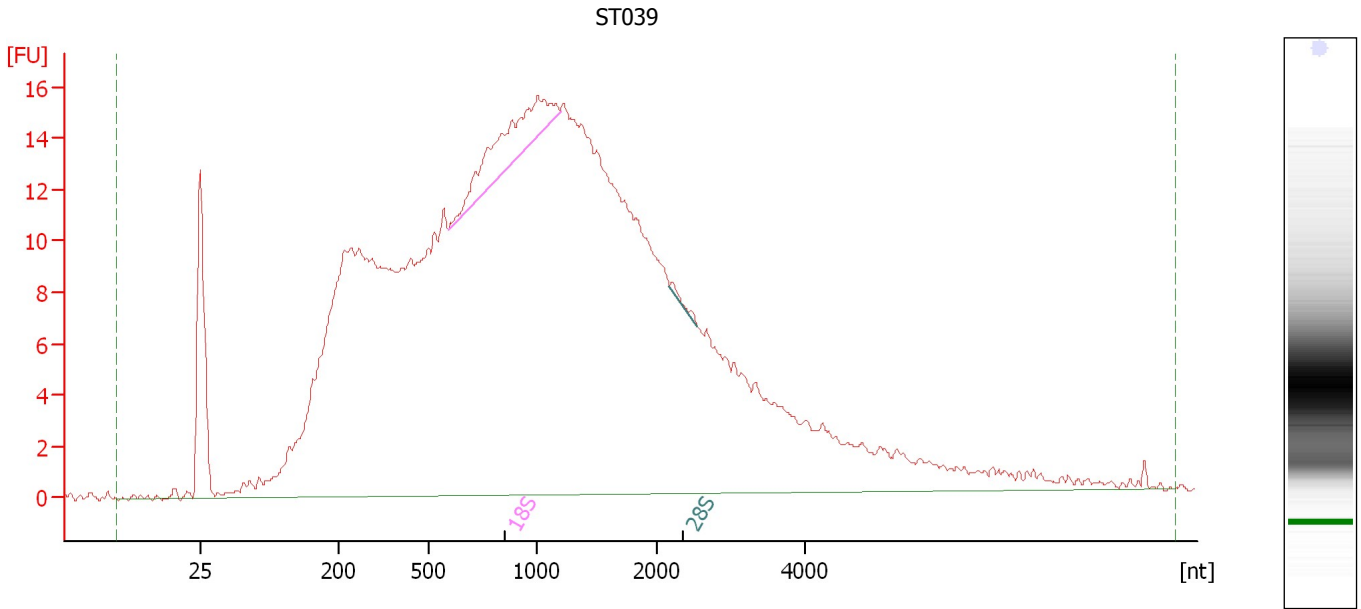
Overall Results for Ladder

RNA Area:	197.0	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : ST039

RNA Area: 619.1 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 471 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.70

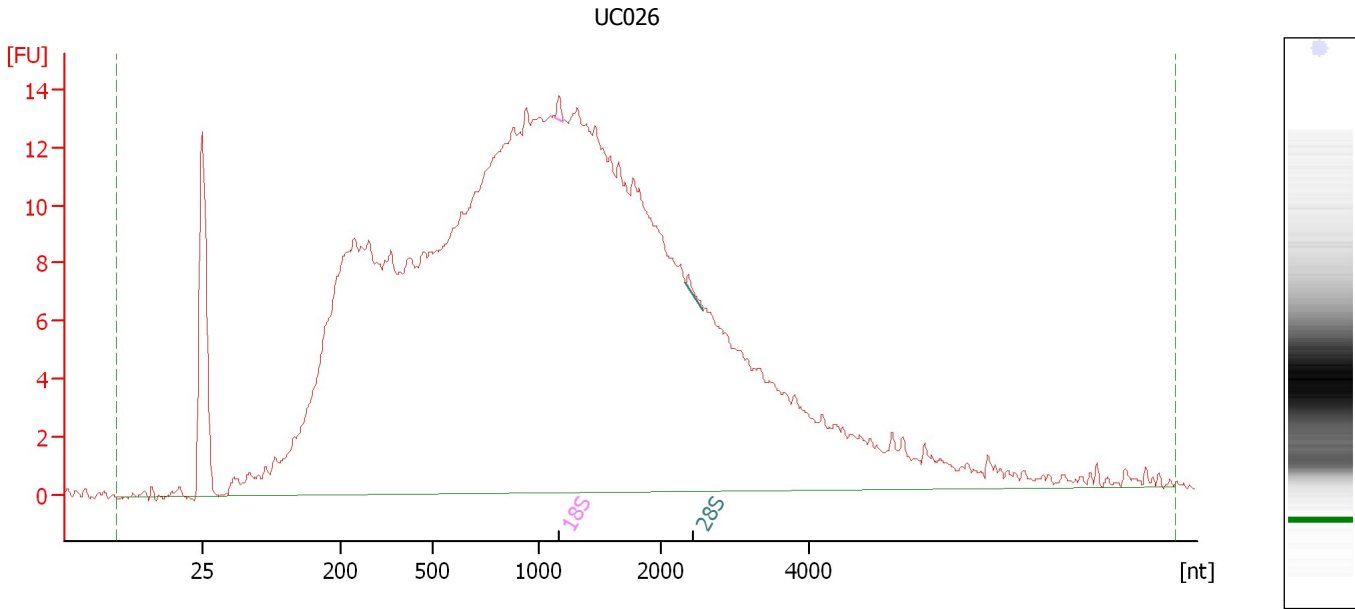
Fragment table for sample 1 : ST039

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	590	1,201	14.4	2.3
28S	2,175	2,550	0.5	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : UC026

RNA Area:	562.8	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	429 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 2.40

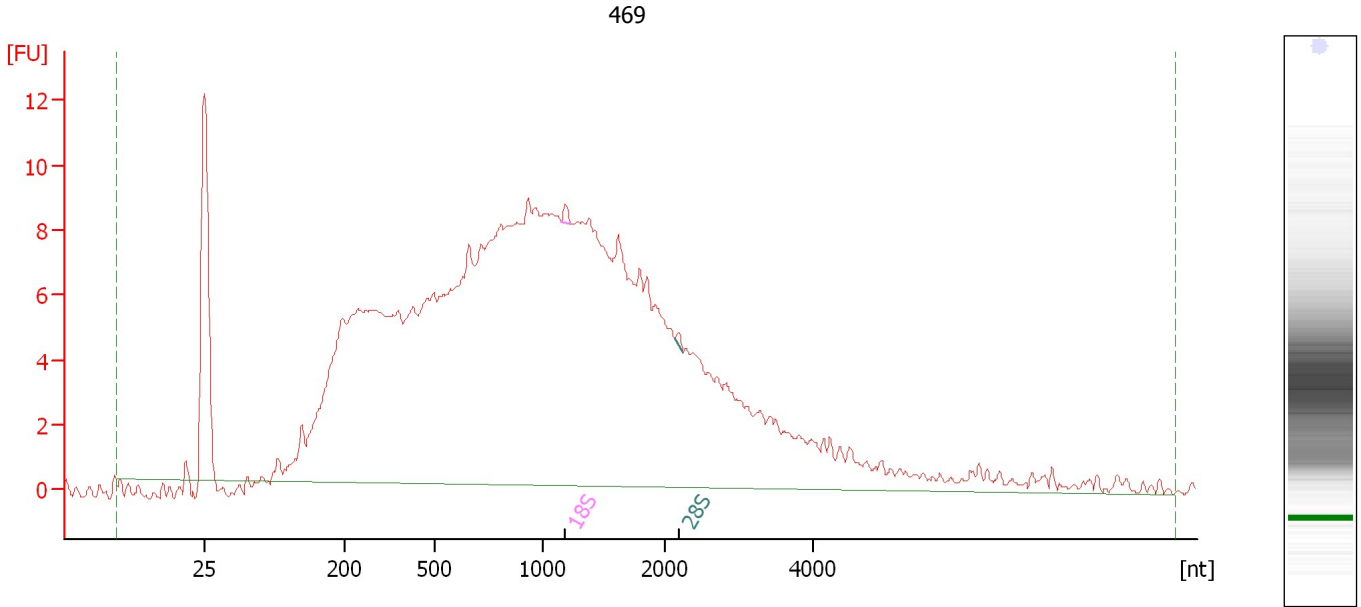
Fragment table for sample 2 : UC026

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,126	1,197	0.5	0.1
28S	2,335	2,579	0.3	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 469

RNA Area: 345.4 RNA Integrity Number (RIN): 2.4 (B.02.08)
RNA Concentration: 263 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN: 2.40

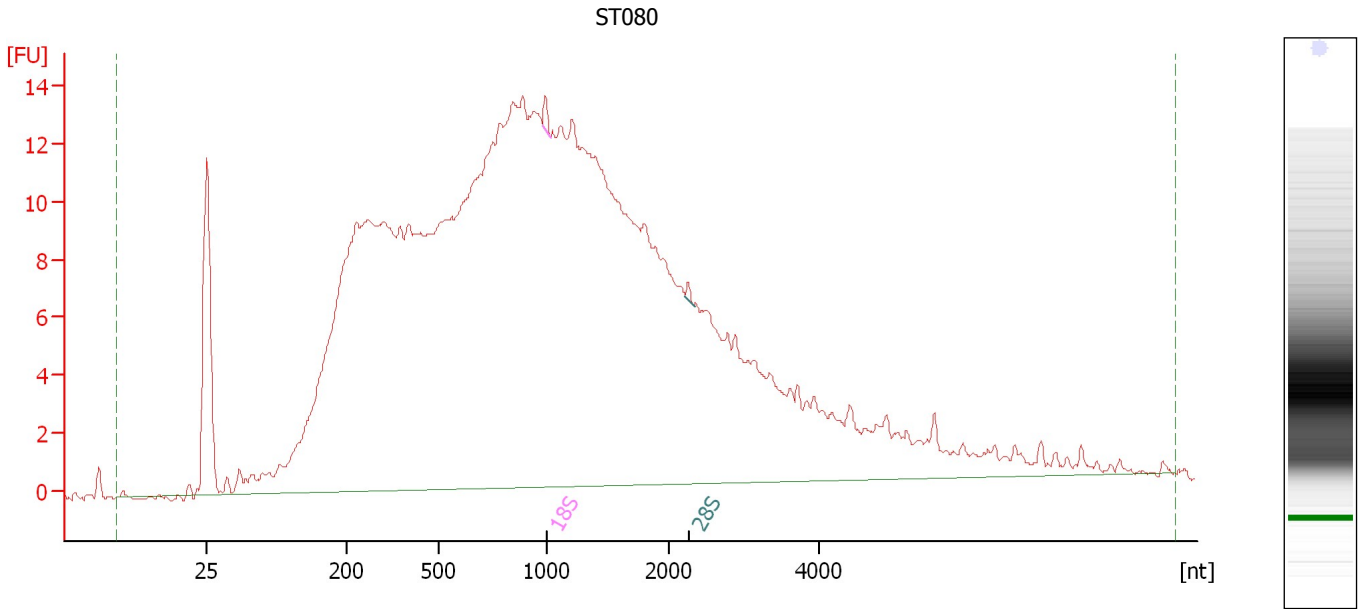
Fragment table for sample 3 : 469

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,149	1,220	0.3	0.1
28S	2,150	2,250	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ST080

RNA Area: 556.6 RNA Integrity Number (RIN): 2.4 (B.02.08)
RNA Concentration: 424 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 2.40

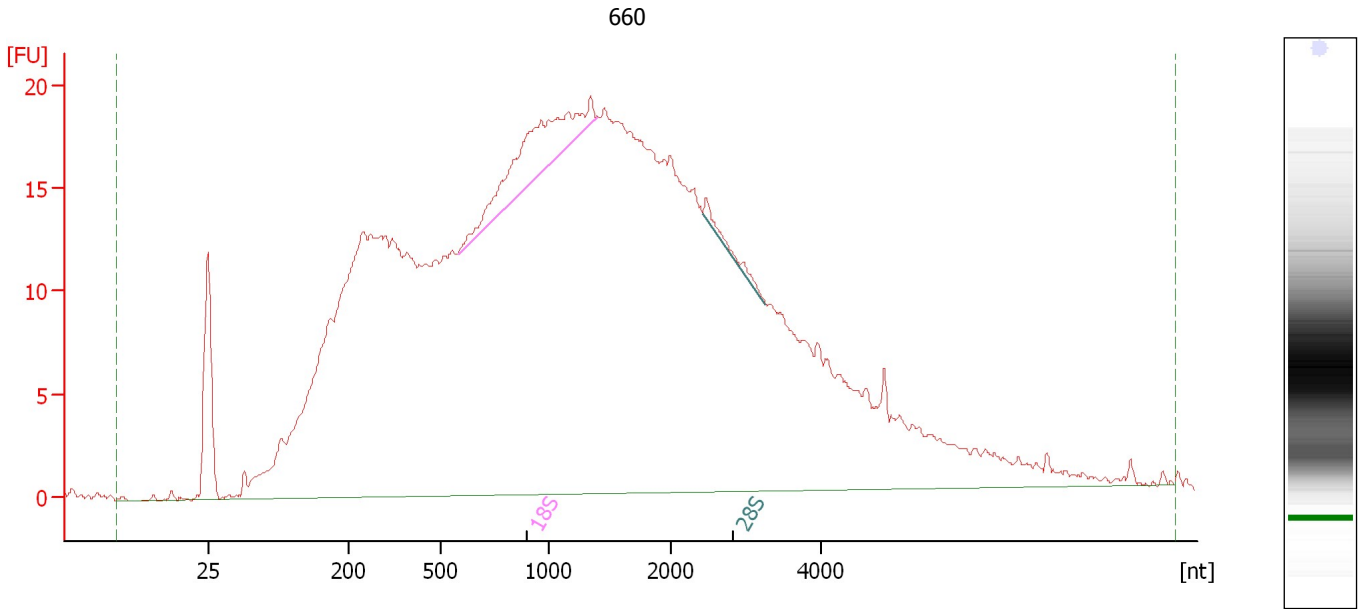
Fragment table for sample 4 : ST080

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	978	1,031	0.7	0.1
28S	2,223	2,337	0.3	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 660

RNA Area: 891.6 RNA Integrity Number (RIN): 2.8 (B.02.08)
RNA Concentration: 679 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 2.80

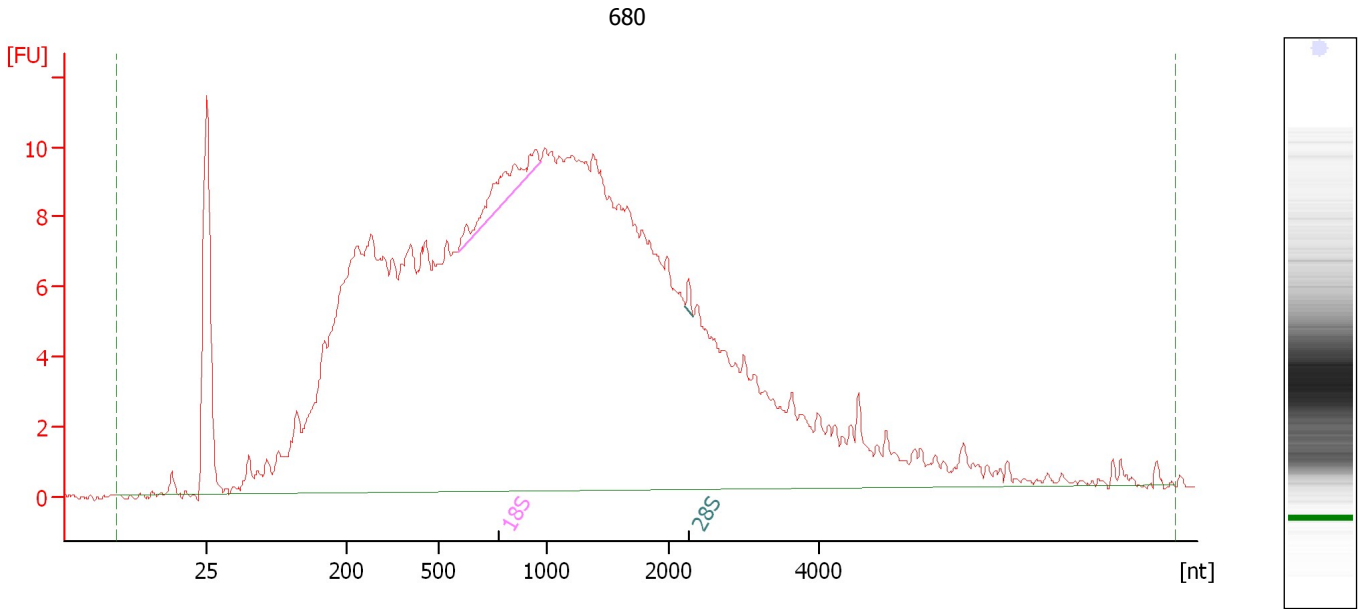
Fragment table for sample 5 : 660

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	582	1,393	22.4	2.5
28S	2,423	3,262	2.0	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 680

RNA Area: 425.6 RNA Integrity Number (RIN): 2.7 (B.02.08)
RNA Concentration: 324 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 2.70

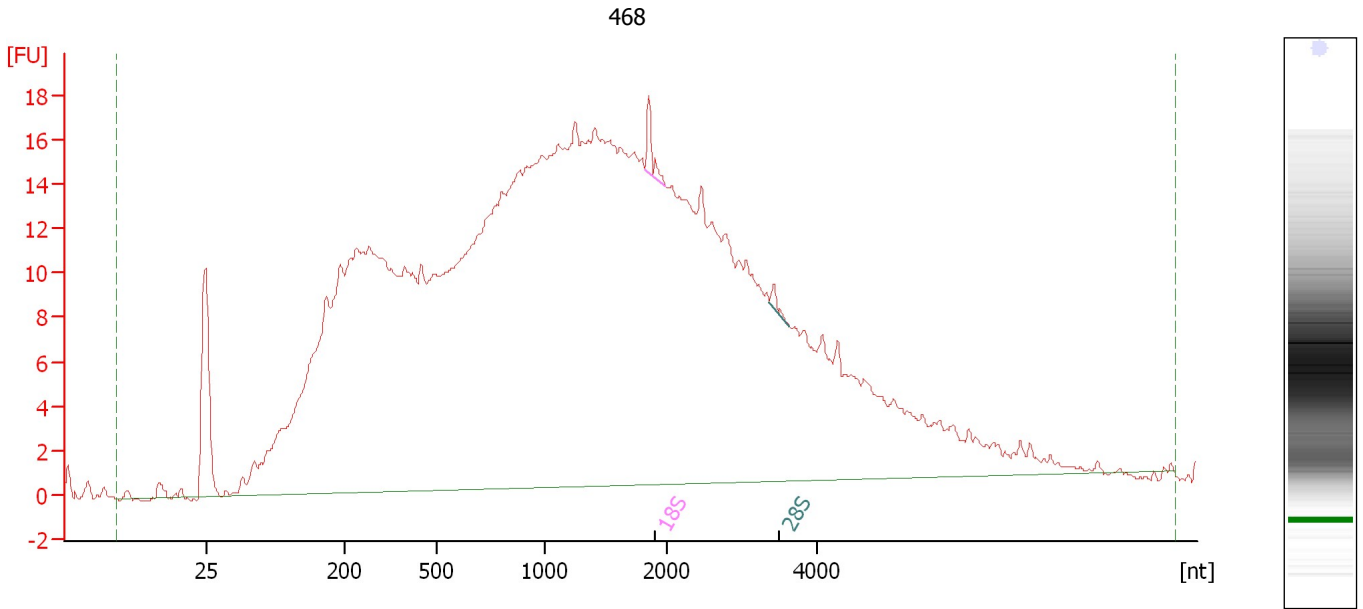
Fragment table for sample 6 : 680

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	590	967	4.7	1.1
28S	2,223	2,323	0.4	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 468

RNA Area: 780.8 RNA Integrity Number (RIN): 2.4 (B.02.08)
RNA Concentration: 595 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 2.40

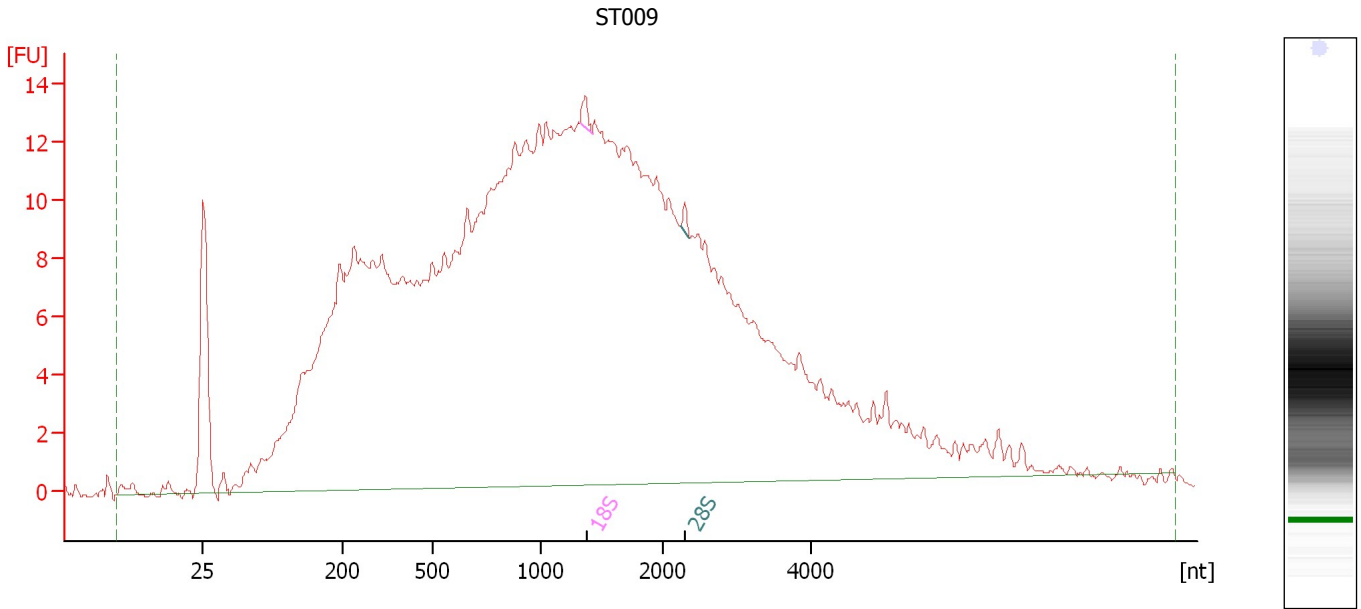
Fragment table for sample 7 : 468

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,820	1,987	2.2	0.3
28S	3,379	3,636	0.6	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : ST009

RNA Area:	570.4	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	434 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 2.30

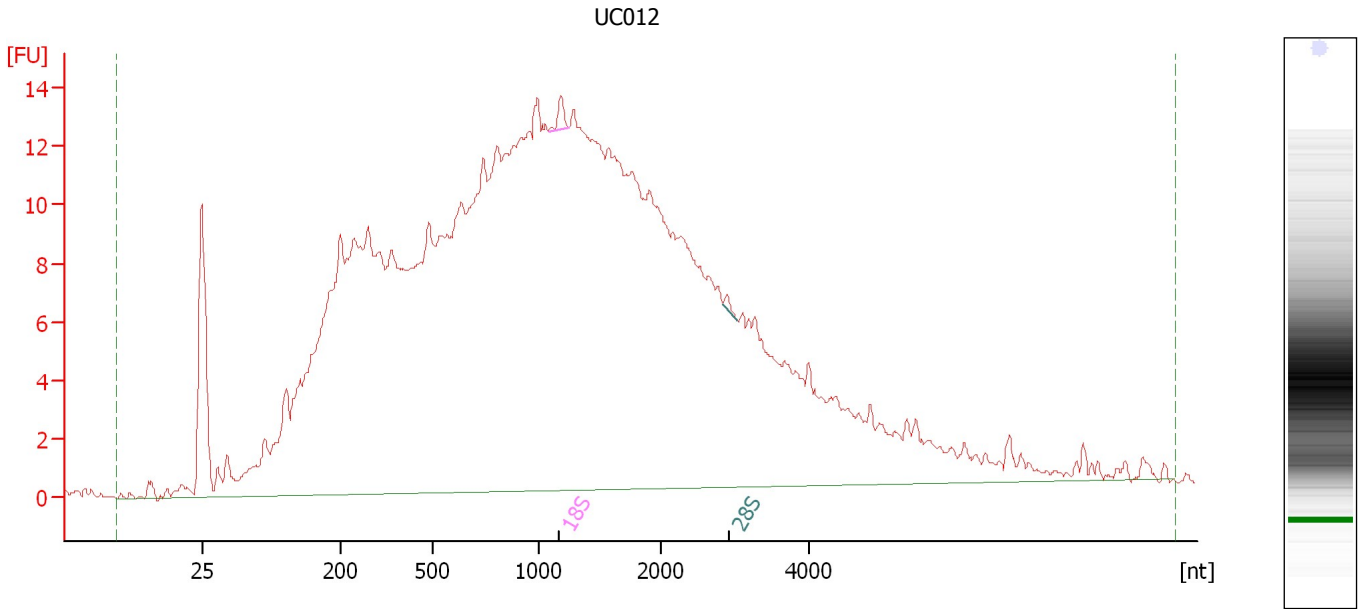
Fragment table for sample 8 : ST009

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,323	1,420	0.8	0.1
28S	2,250	2,364	0.4	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : UC012

RNA Area:	599.3	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	456 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 2.40

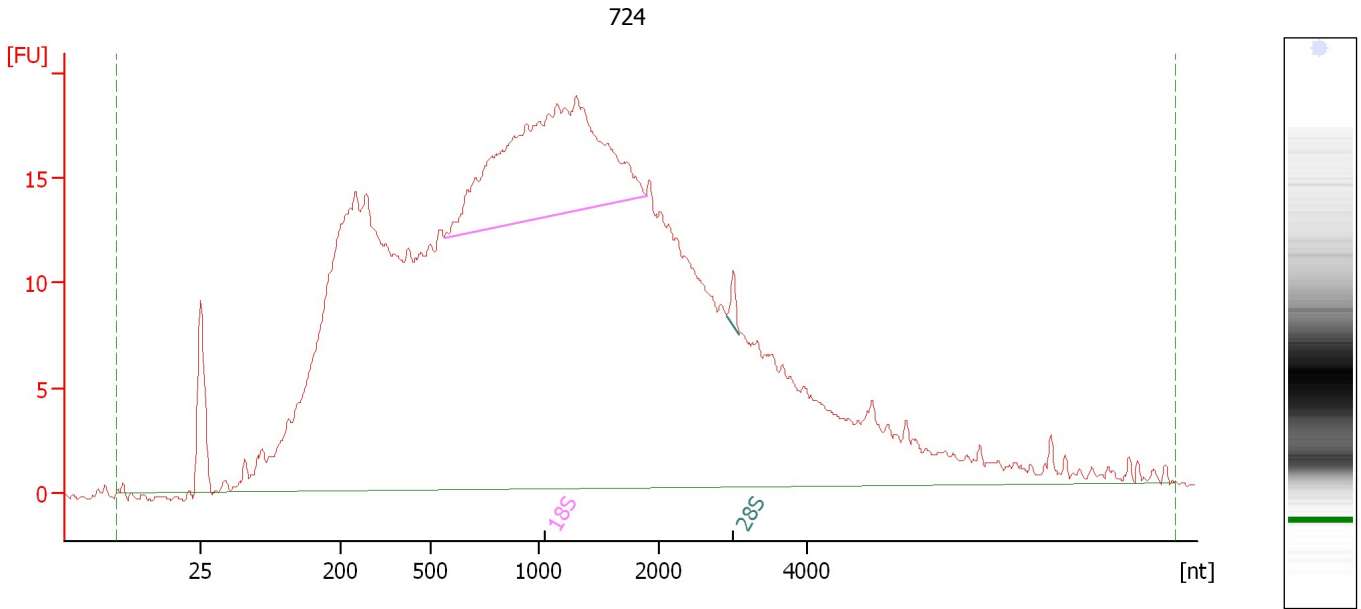
Fragment table for sample 9 : UC012

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,073	1,232	1.0	0.2
28S	2,852	3,025	0.3	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
 Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 724

RNA Area:	827.9	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	630 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.80

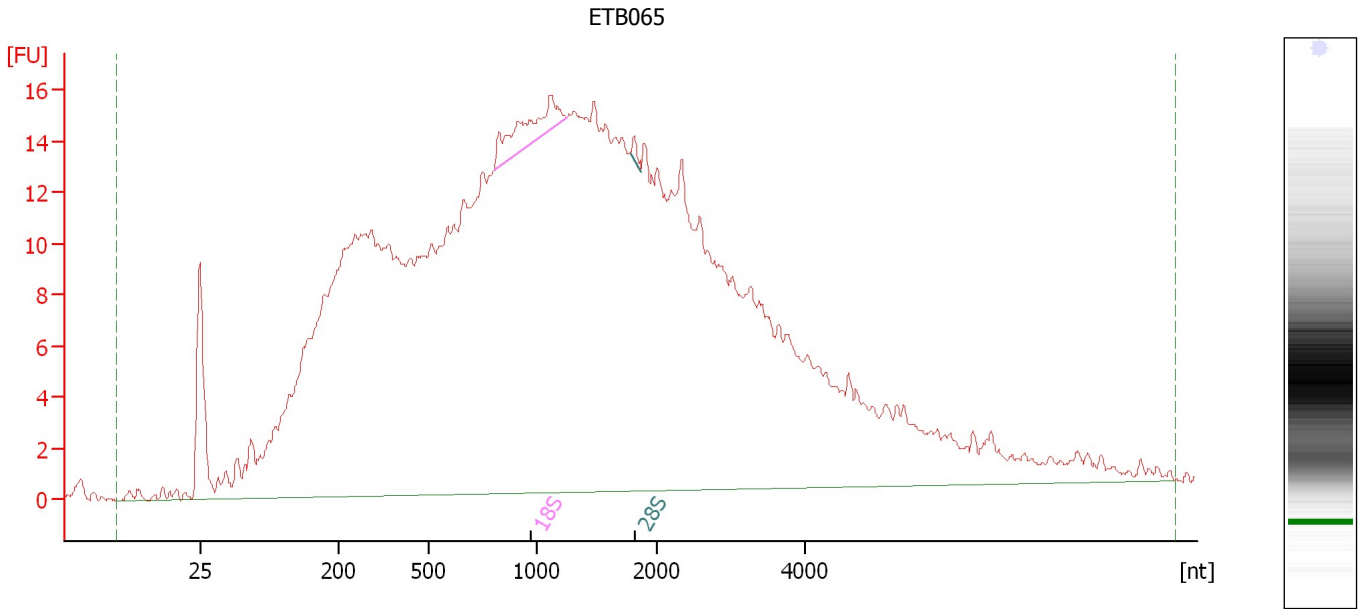
Fragment table for sample 10 : 724

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	562	1,895	74.5	9.0
28S	2,911	3,098	1.5	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : ETB065

RNA Area:	740.9	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	564 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.50

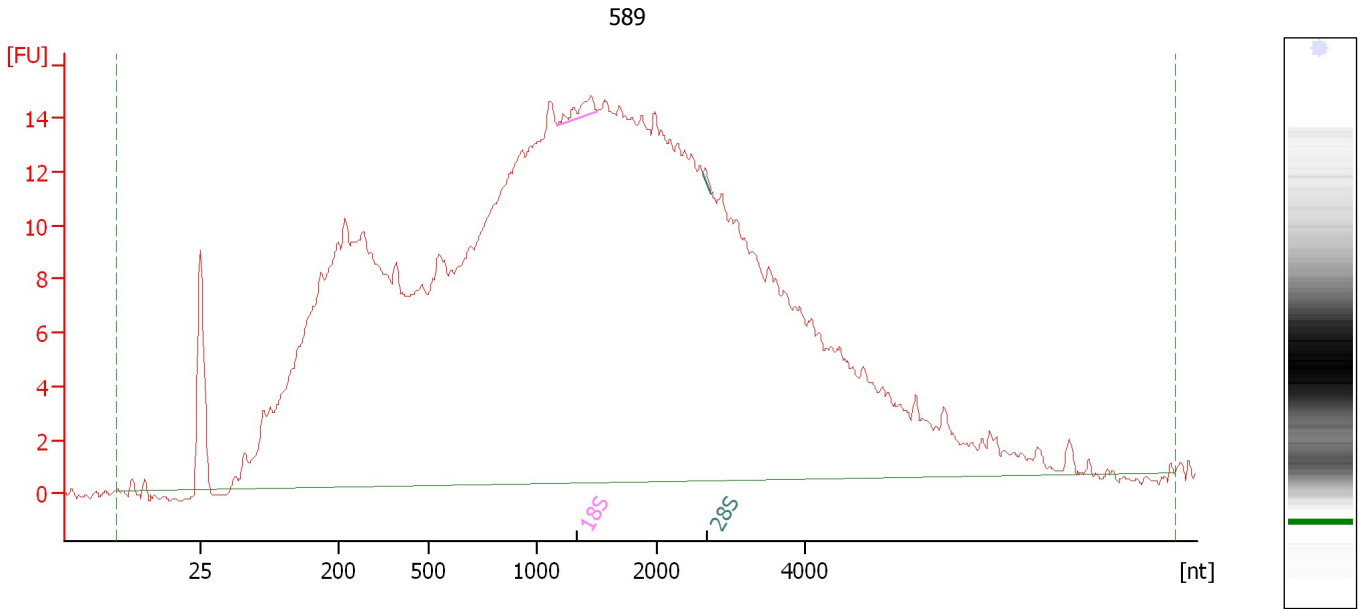
Fragment table for sample 11 : ETB065

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	804	1,254	7.2	1.0
28S	1,788	1,877	0.6	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 589

RNA Area:	696.0	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	530 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 2.40

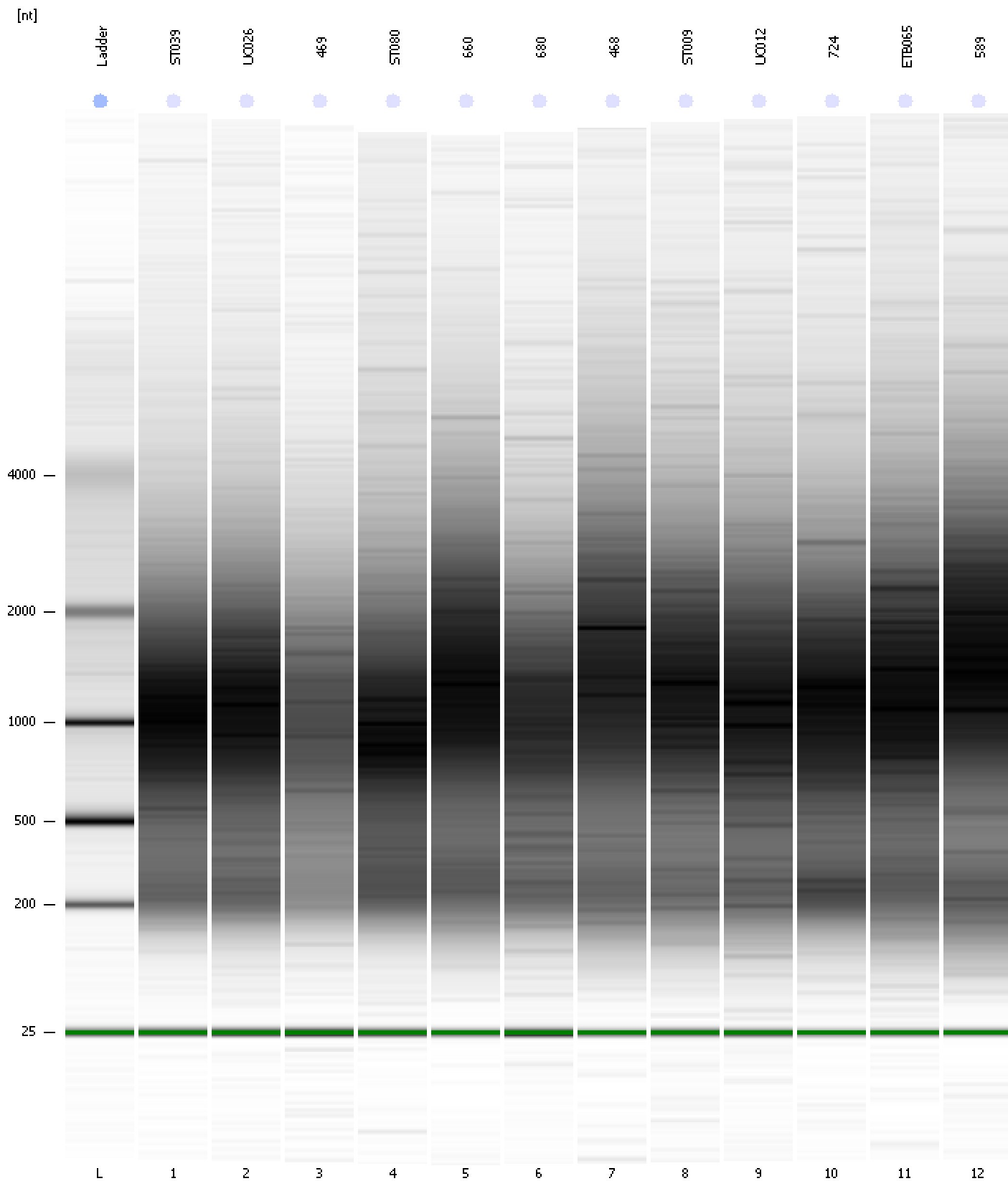
Fragment table for sample 12 : 589

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,174	1,512	1.5	0.2
28S	2,623	2,738	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
Modified: 6/6/2016 10:09:26 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad

Created: 6/6/2016 9:46:23 AM
 Modified: 6/6/2016 10:09:26 AM

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		6/6/2016 10:09:25 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-06\2016-06-06_002.xad)		Instrument	Run		6/6/2016 9:46:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/6/2016 9:46:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/6/2016 9:46:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/6/2016 9:46:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/6/2016 9:46:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/6/2016 9:46:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/6/2016 9:46:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1