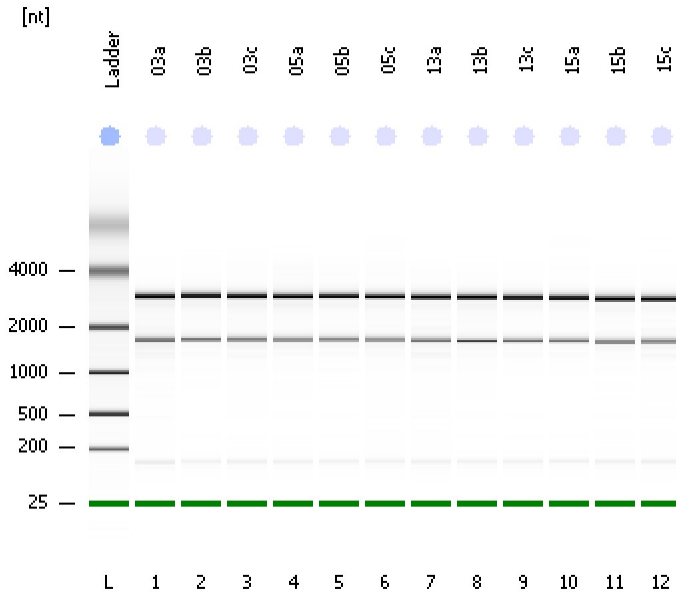


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electrophoresis File Run Summary



Instrument Information:

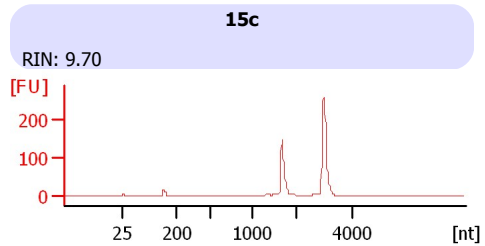
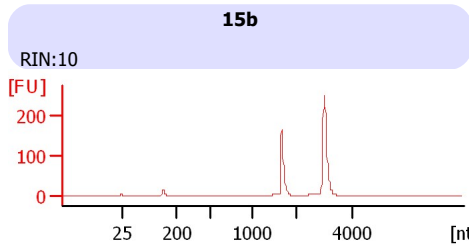
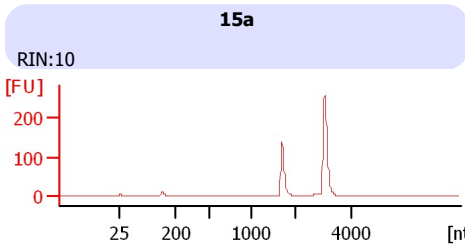
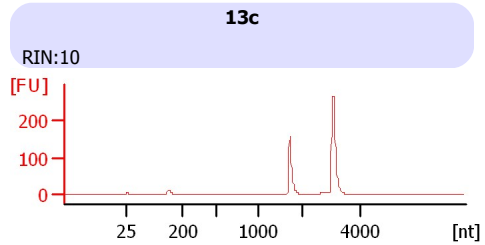
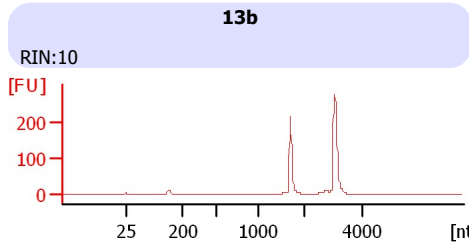
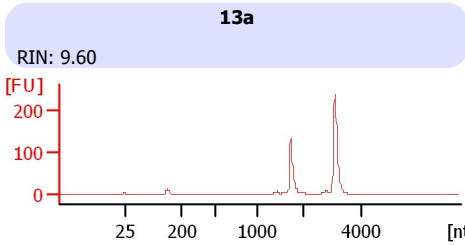
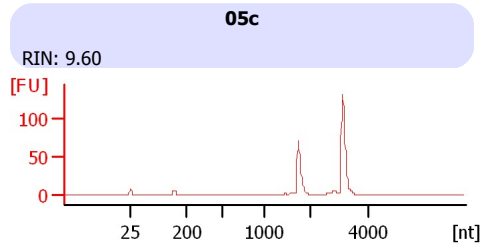
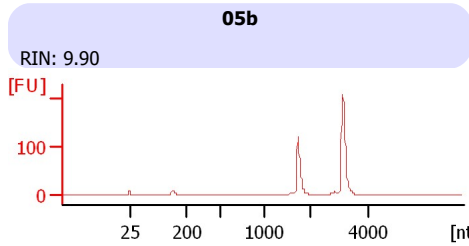
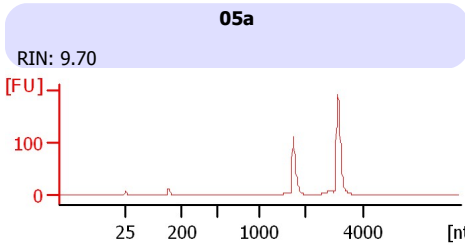
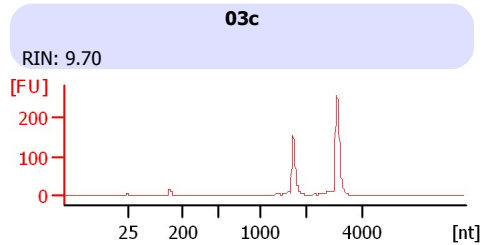
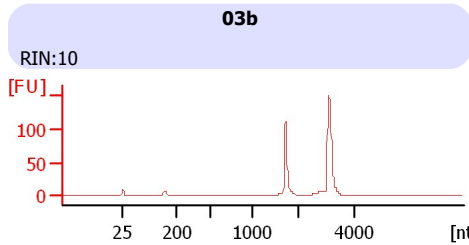
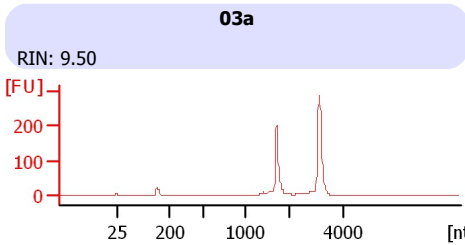
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
03a		✓	RIN: 9.50	
03b		✓	RIN:10	
03c		✓	RIN: 9.70	
05a		✓	RIN: 9.70	
05b		✓	RIN: 9.90	
05c		✓	RIN: 9.60	
13a		✓	RIN: 9.60	
13b		✓	RIN:10	
13c		✓	RIN:10	
15a		✓	RIN:10	
15b		✓	RIN:10	
15c		✓	RIN: 9.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 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

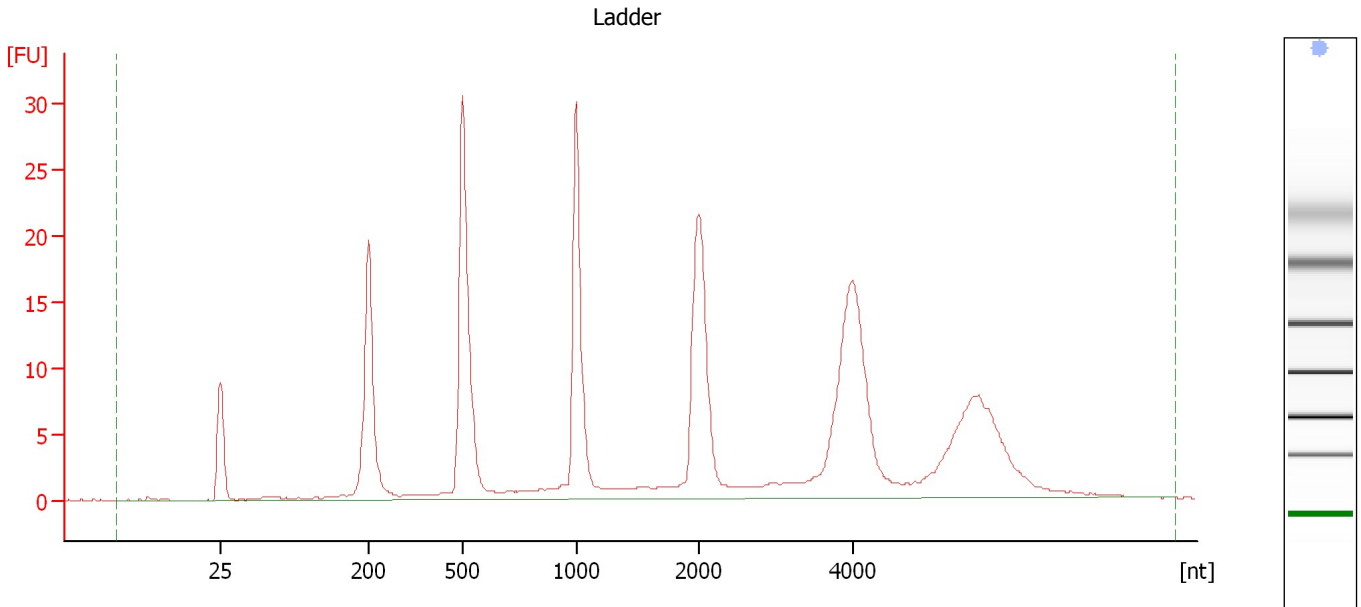
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary



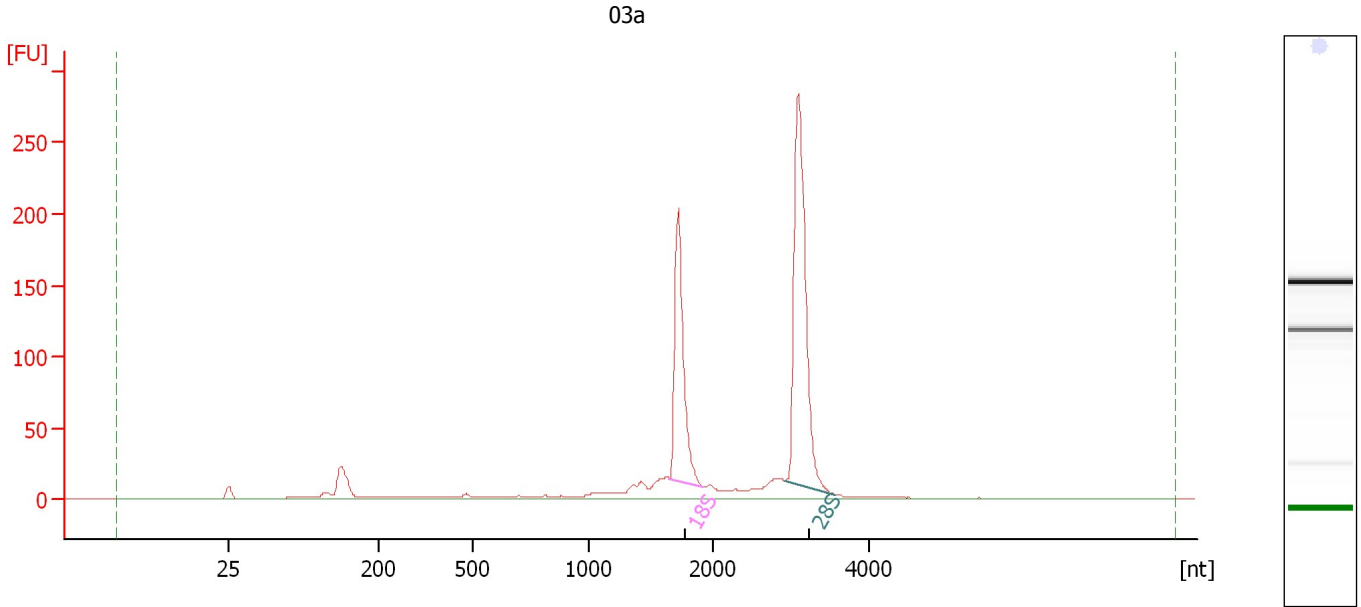
Overall Results for Ladder

RNA Area:	262.7	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\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 03a

RNA Area: 853.6 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 487 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.50

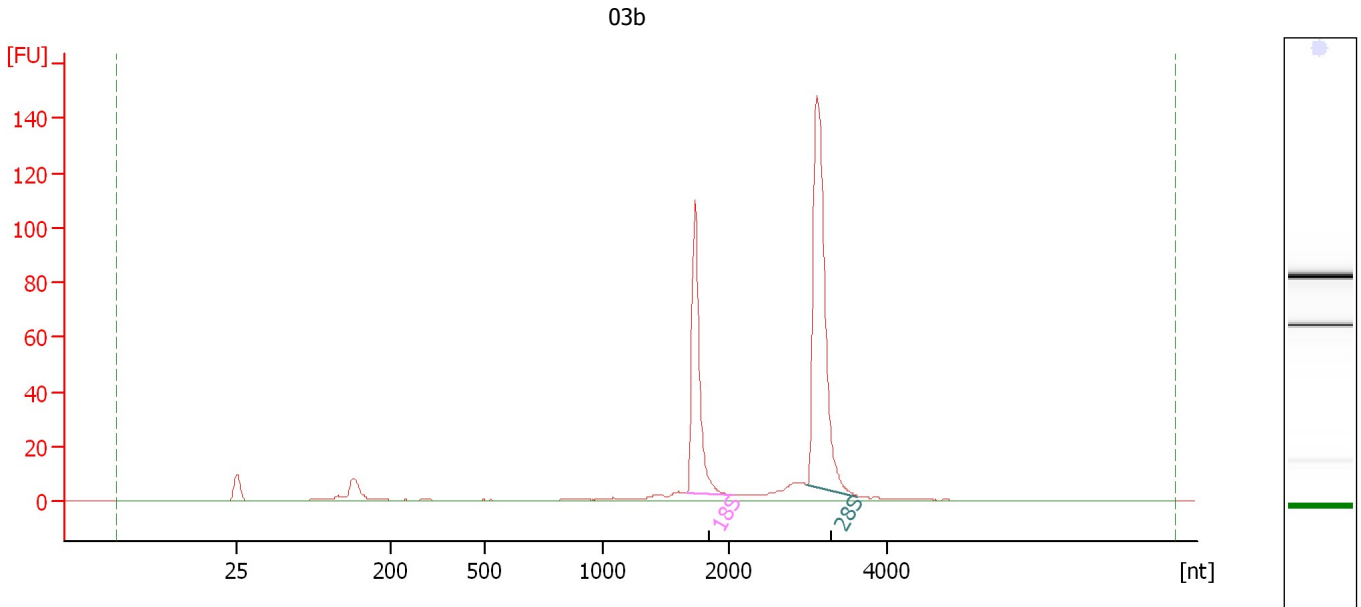
Fragment table for sample 1 : 03a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,927	187.8	22.0
28S	2,925	3,568	332.8	39.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
 Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 03b

RNA Area:	383.8	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	219 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:10

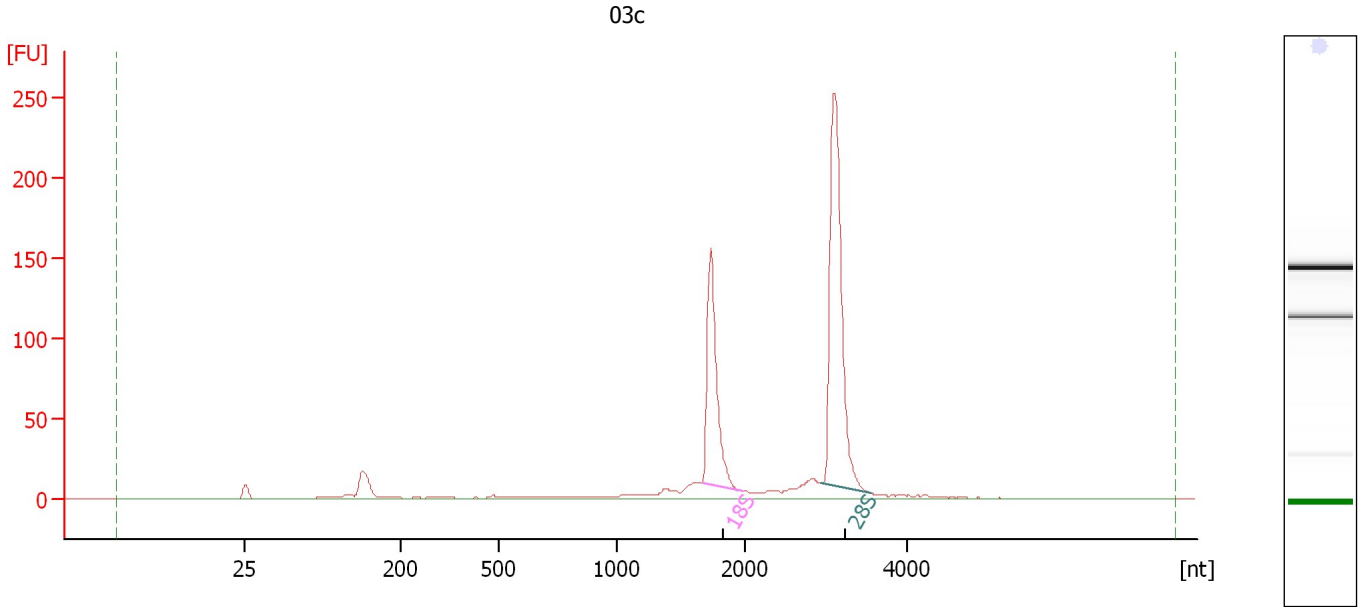
Fragment table for sample 2 : 03b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,670	2,057	91.4	23.8
28S	2,986	3,619	171.1	44.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 03c

RNA Area: 681.1 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 389 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.70

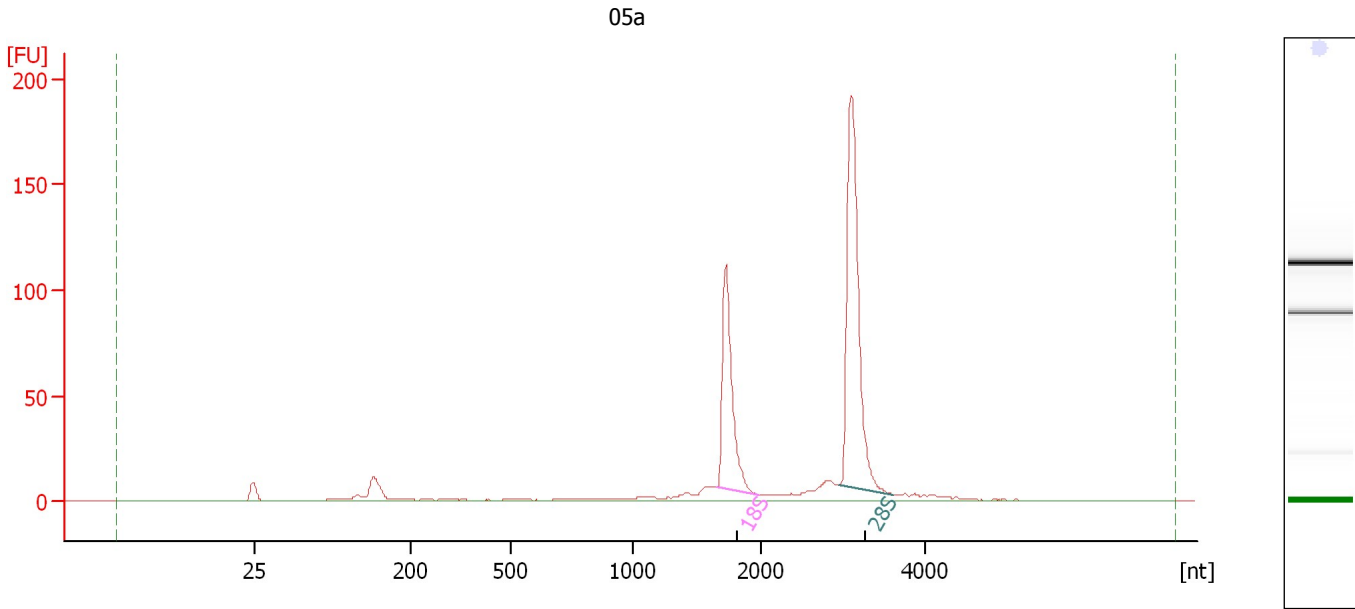
Fragment table for sample 3 : 03c

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	1,973	153.2	22.5
28S	2,926	3,563	285.1	41.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 05a

RNA Area:	491.9	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	281 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.70

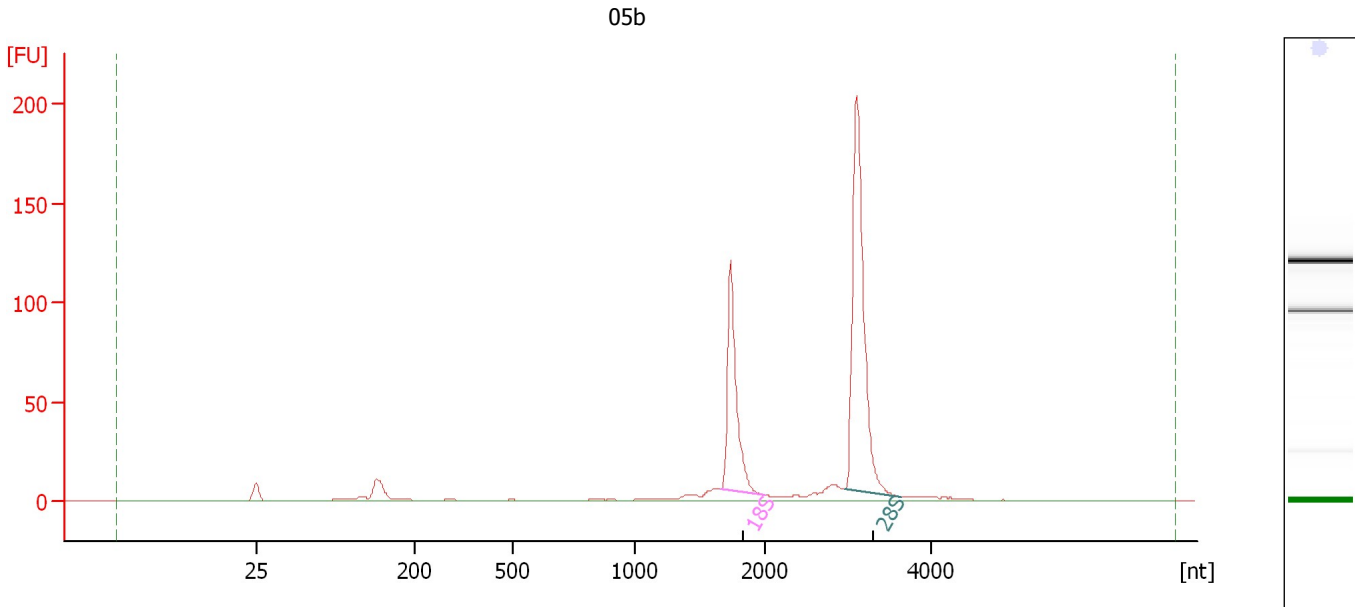
Fragment table for sample 4 : 05a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,658	1,979	110.1	22.4
28S	2,934	3,600	208.1	42.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 05b

RNA Area: 482.7 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 276 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.90

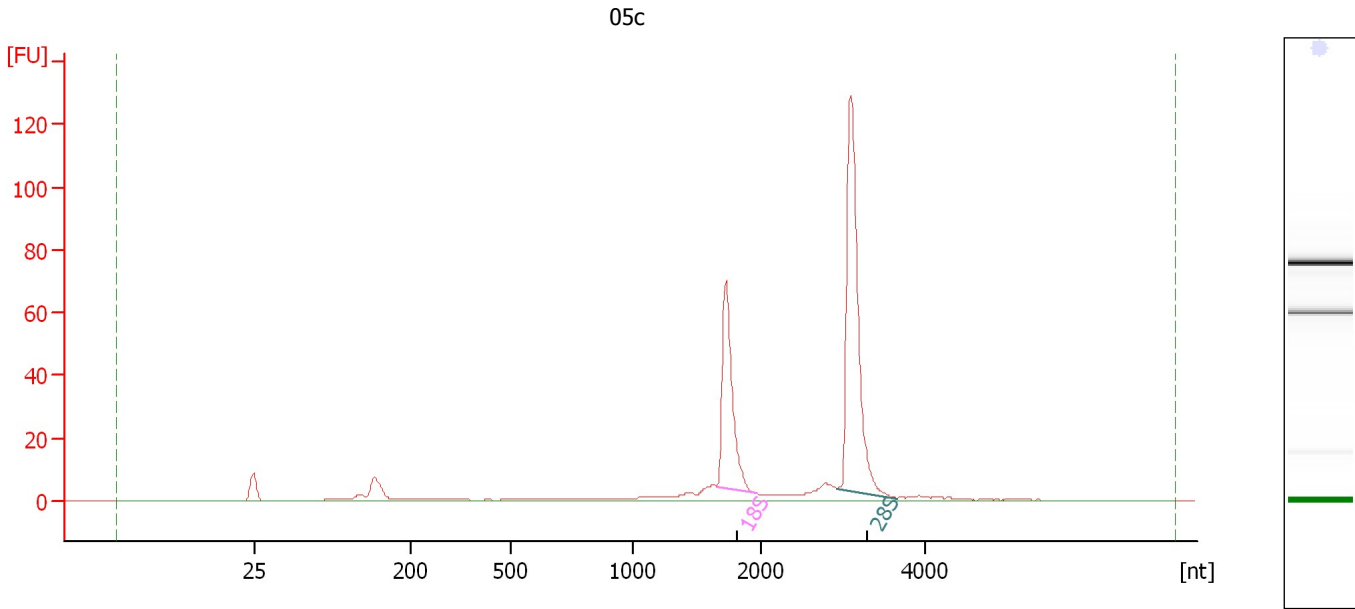
Fragment table for sample 5 : 05b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,660	1,997	115.5	23.9
28S	2,958	3,648	221.0	45.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 05c

RNA Area:	311.7	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	178 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.60

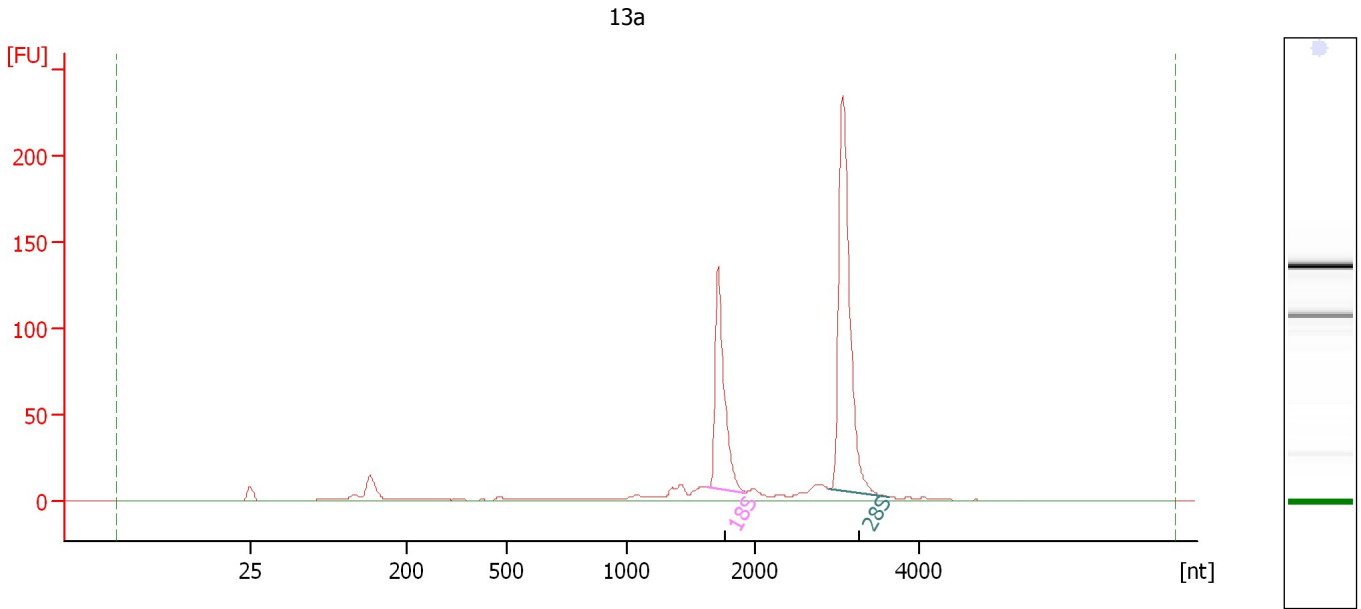
Fragment table for sample 6 : 05c

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	1,955	71.2	22.9
28S	2,921	3,652	137.6	44.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 13a

RNA Area: 609.5 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 348 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.60

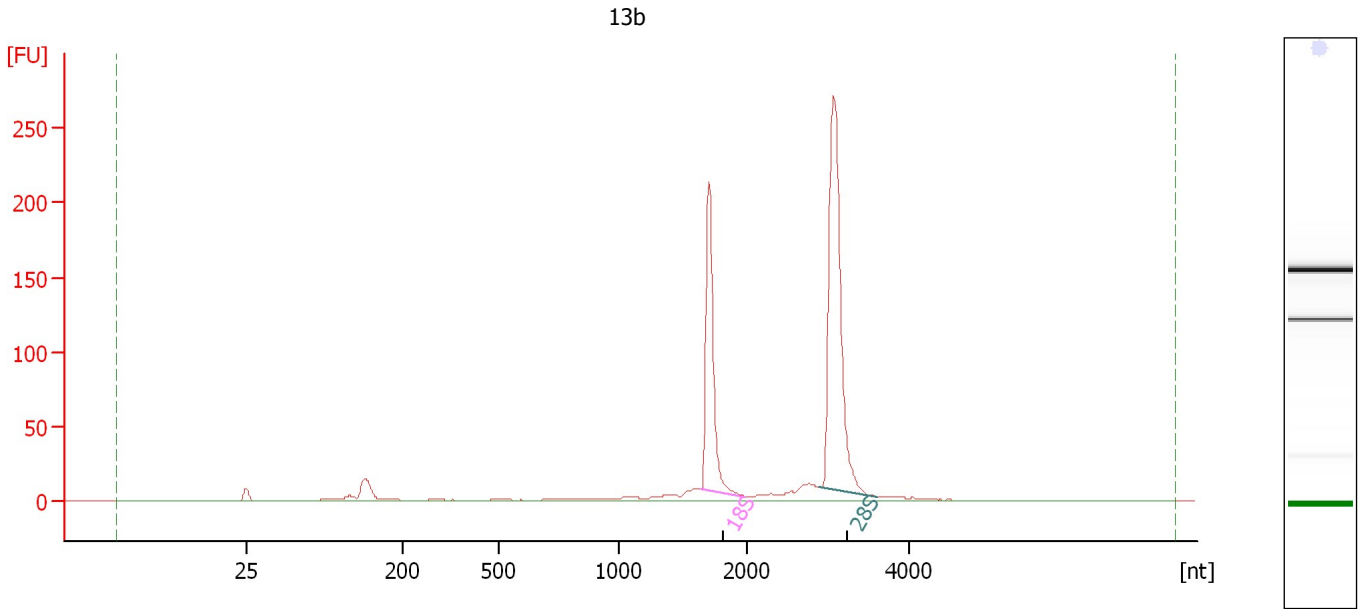
Fragment table for sample 7 : 13a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,919	132.3	21.7
28S	2,897	3,632	264.3	43.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 13b

RNA Area: 690.4 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 394 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:10

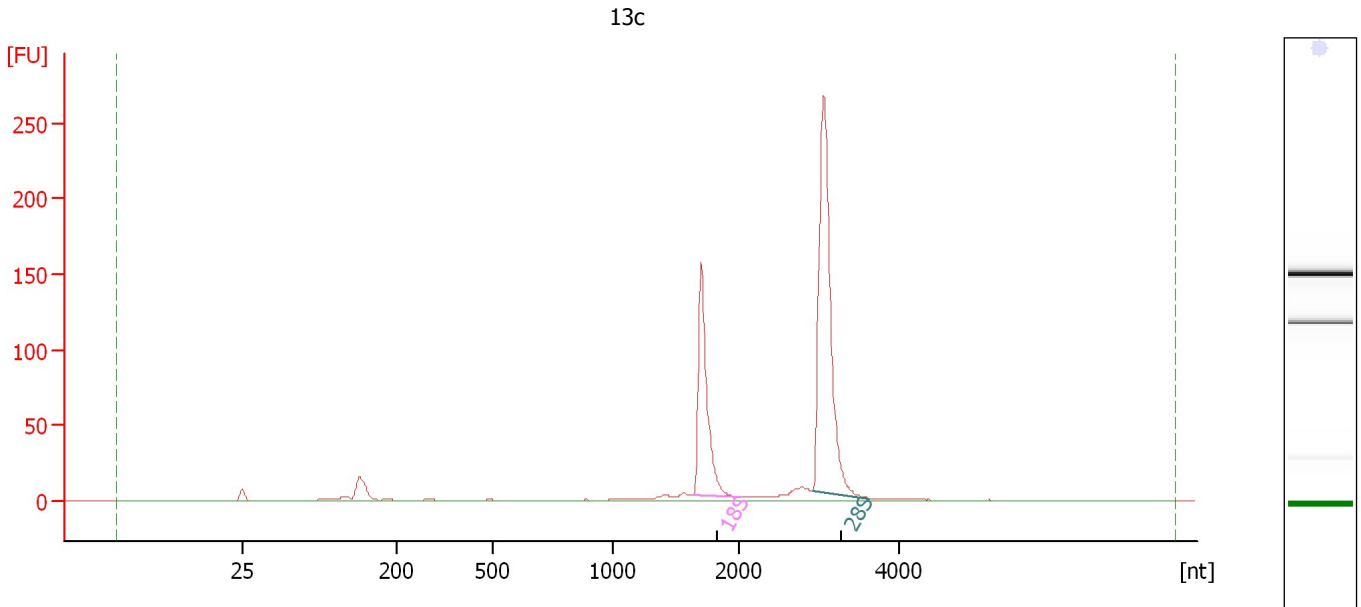
Fragment table for sample 8 : 13b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	1,974	163.6	23.7
28S	2,886	3,601	310.3	44.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 13c

RNA Area: 628.3 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 359 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

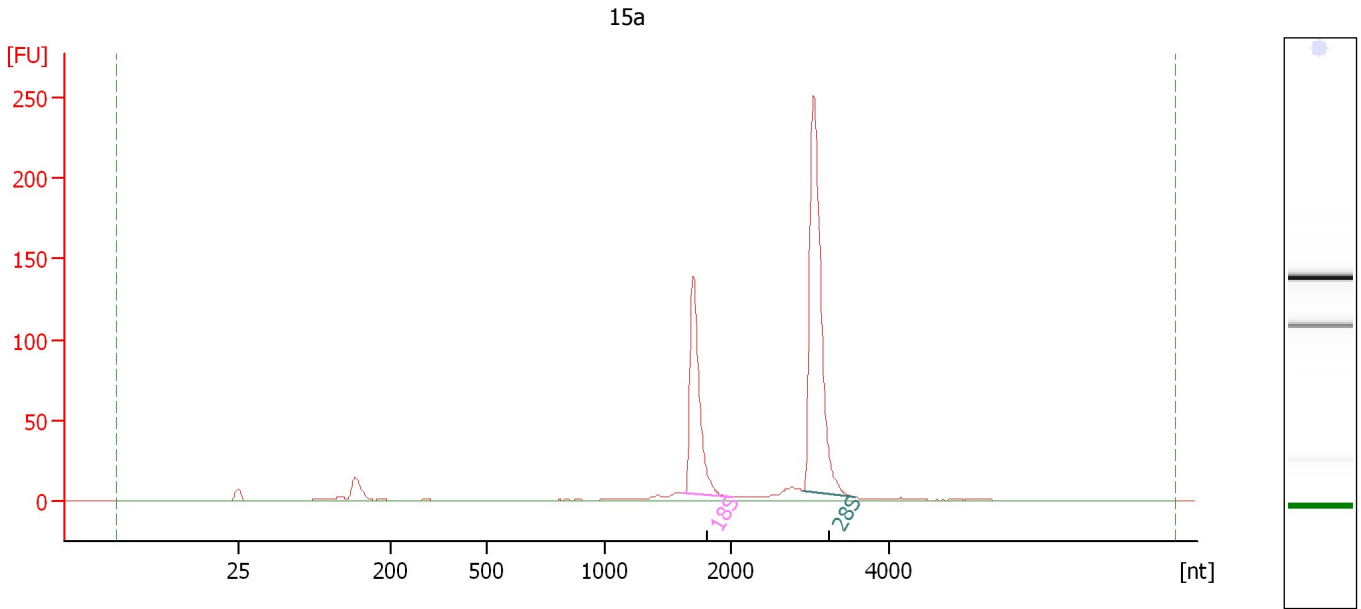
Fragment table for sample 9 : 13c

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	2,021	152.9	24.3
28S	2,915	3,622	308.7	49.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 15a

RNA Area: 584.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 334 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

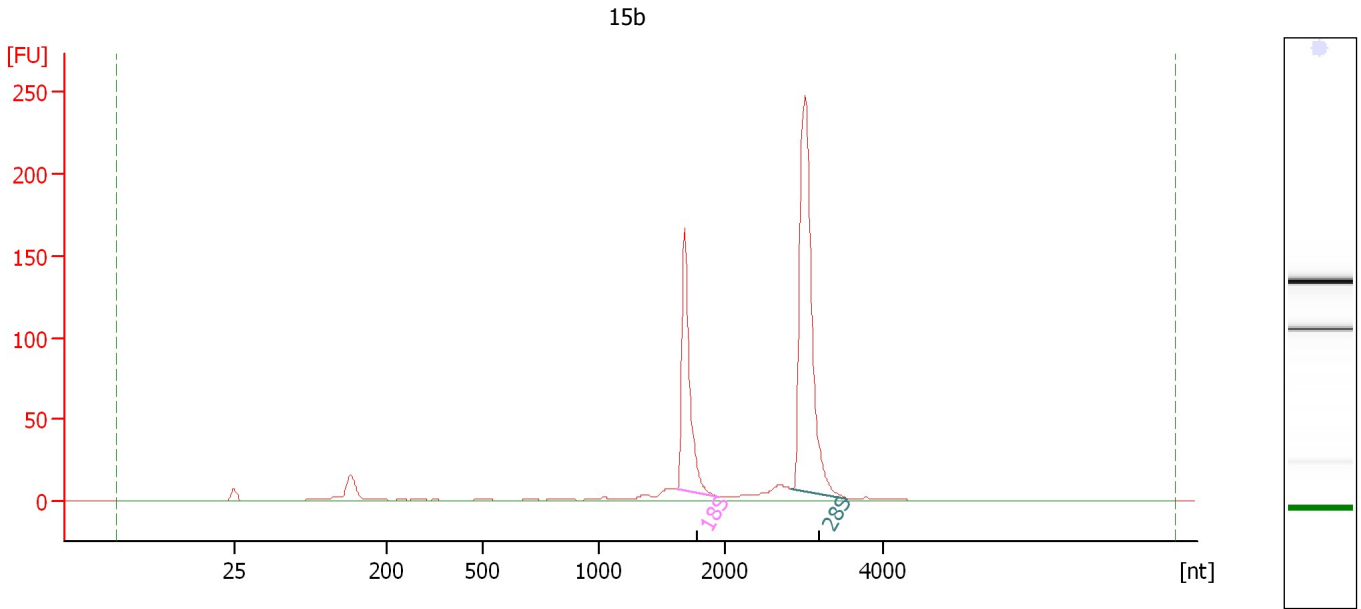
Fragment table for sample 10 : 15a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	2,017	143.5	24.6
28S	2,905	3,564	289.6	49.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 15b

RNA Area:	642.2	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	367 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN:10

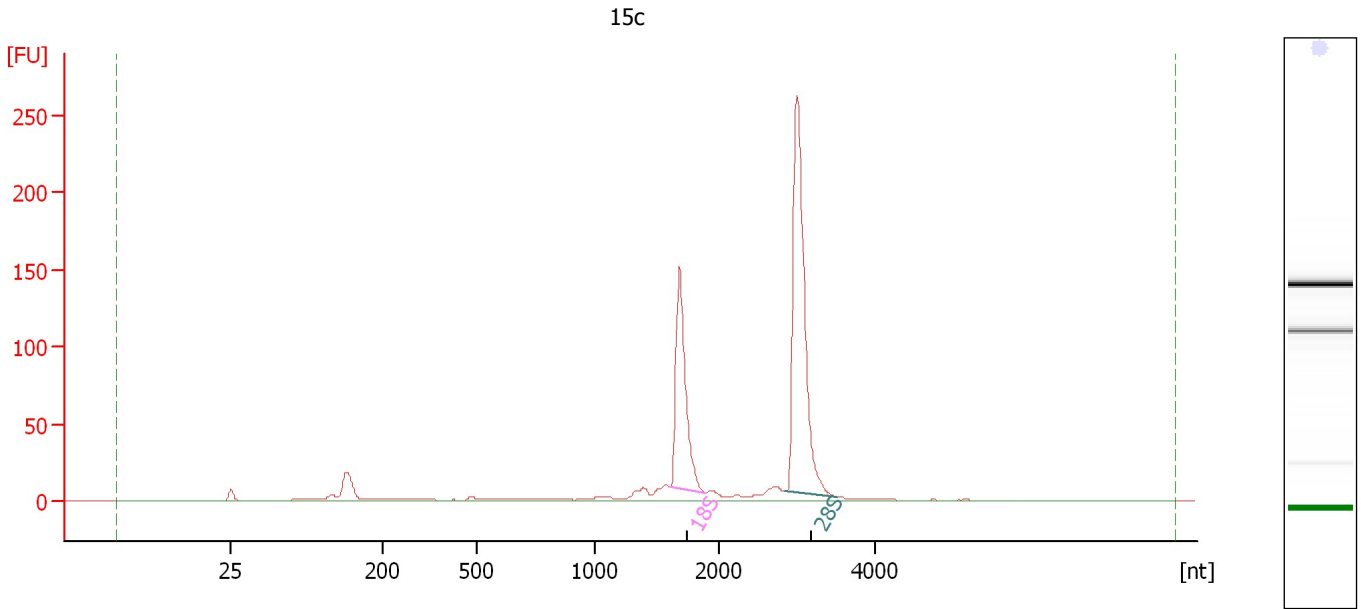
Fragment table for sample 11 : 15b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,616	1,957	151.8	23.6
28S	2,826	3,556	299.4	46.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
 Modified: 7/23/2014 12:12:15 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 15c

RNA Area:	686.5	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	392 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.70

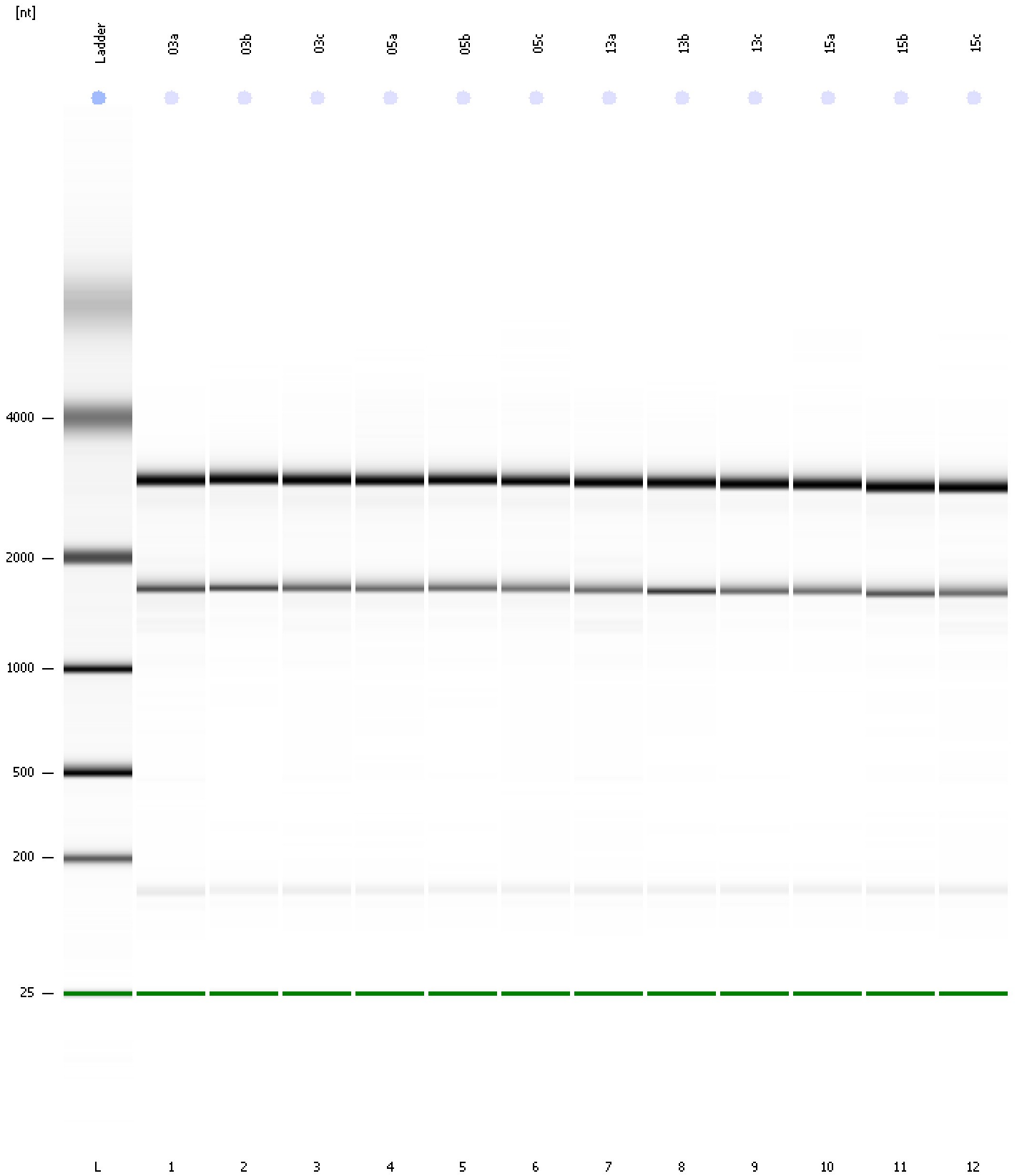
Fragment table for sample 12 : 15c

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,895	158.1	23.0
28S	2,841	3,508	311.8	45.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
Modified: 7/23/2014 12:12:15 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad

Created: 7/23/2014 11:49:02 AM
 Modified: 7/23/2014 12:12:15 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		7/23/2014 12:12:01 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\Data\2014-07-23\2014-07-23_003.xad)		Instrument	Run		7/23/2014 11:49:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/23/2014 11:49:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/23/2014 11:49:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/23/2014 11:49:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/23/2014 11:49:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/23/2014 11:49:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/23/2014 11:49:02 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1