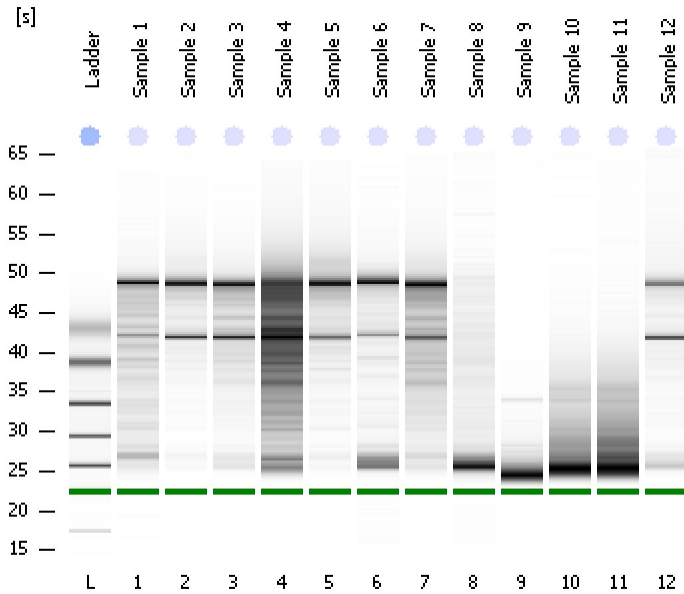


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electrophoresis File Run Summary



Instrument Information:

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

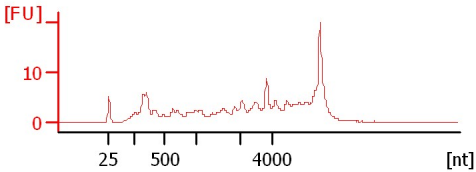
Assay Information:

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.

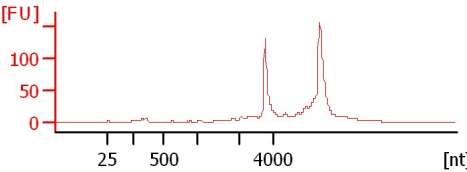
Chip Information:

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

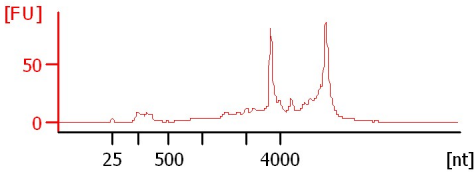
Sample 1
RIN: 5.50



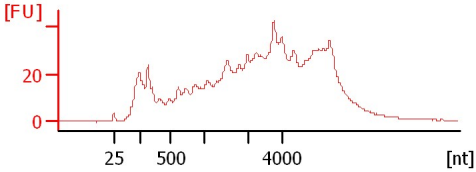
Sample 2
RIN: 8.80



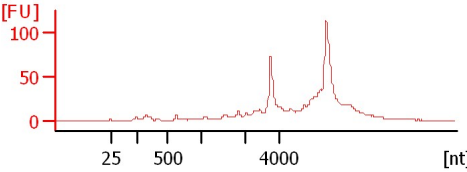
Sample 3
RIN: 7.30



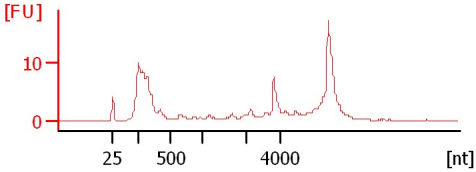
Sample 4
RIN: 2.60



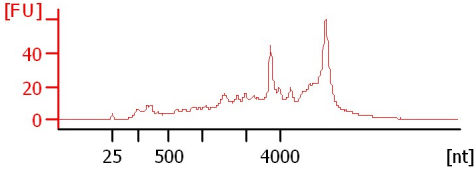
Sample 5
RIN: 8.30



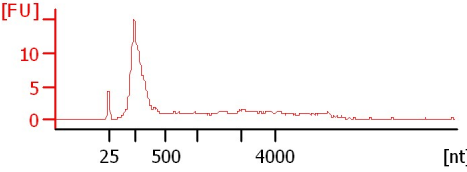
Sample 6
RIN: 8.20



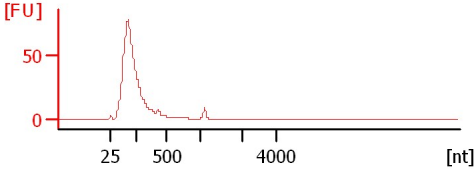
Sample 7
RIN: 5.40



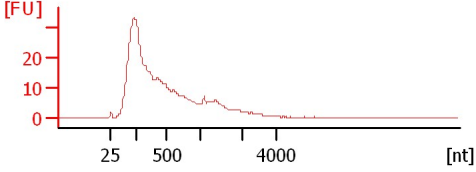
Sample 8
RIN: 2.50



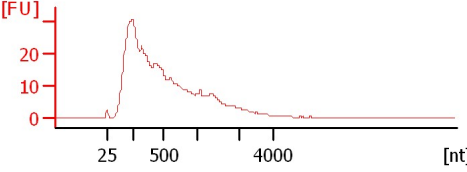
Sample 9
RIN: 2.50



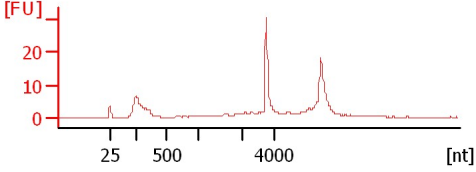
Sample 10
RIN: 2.10



Sample 11
RIN: 2.20



Sample 12
RIN: 8



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 5.50	
Sample 2		✓	RIN: 8.80	
Sample 3		✓	RIN: 7.30	
Sample 4		✓	RIN: 2.60	
Sample 5		✓	RIN: 8.30	
Sample 6		✓	RIN: 8.20	
Sample 7		✓	RIN: 5.40	
Sample 8		✓	RIN: 2.50	
Sample 9		✓	RIN: 2.50	
Sample 10		✓	RIN: 2.10	
Sample 11		✓	RIN: 2.20	
Sample 12		✓	RIN:8	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 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

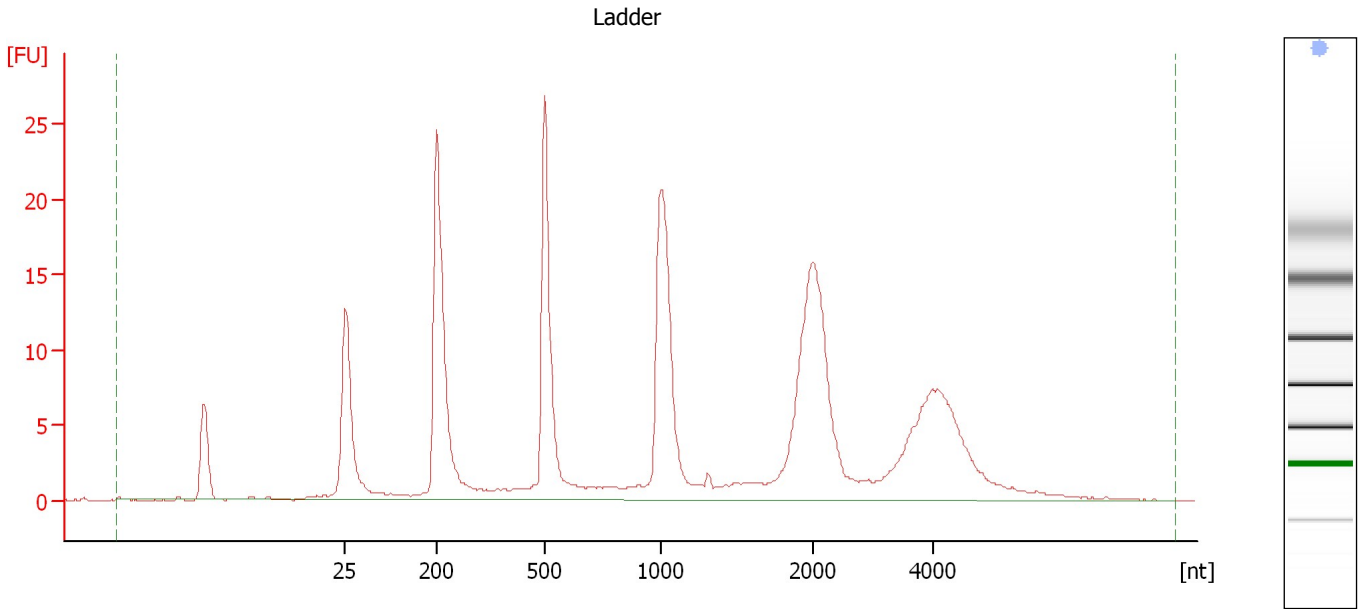
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary



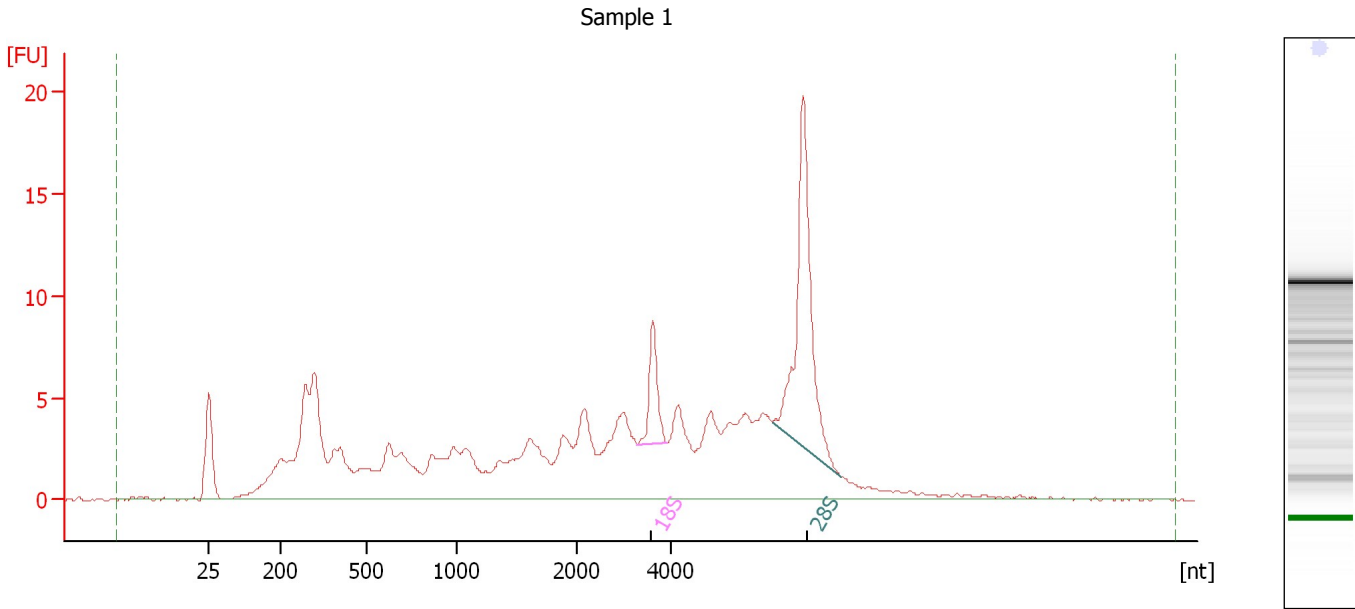
Overall Results for Ladder

RNA Area:	239.1	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\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	218.4	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	137 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	4.0	Result Flagging Label:	RIN: 5.50

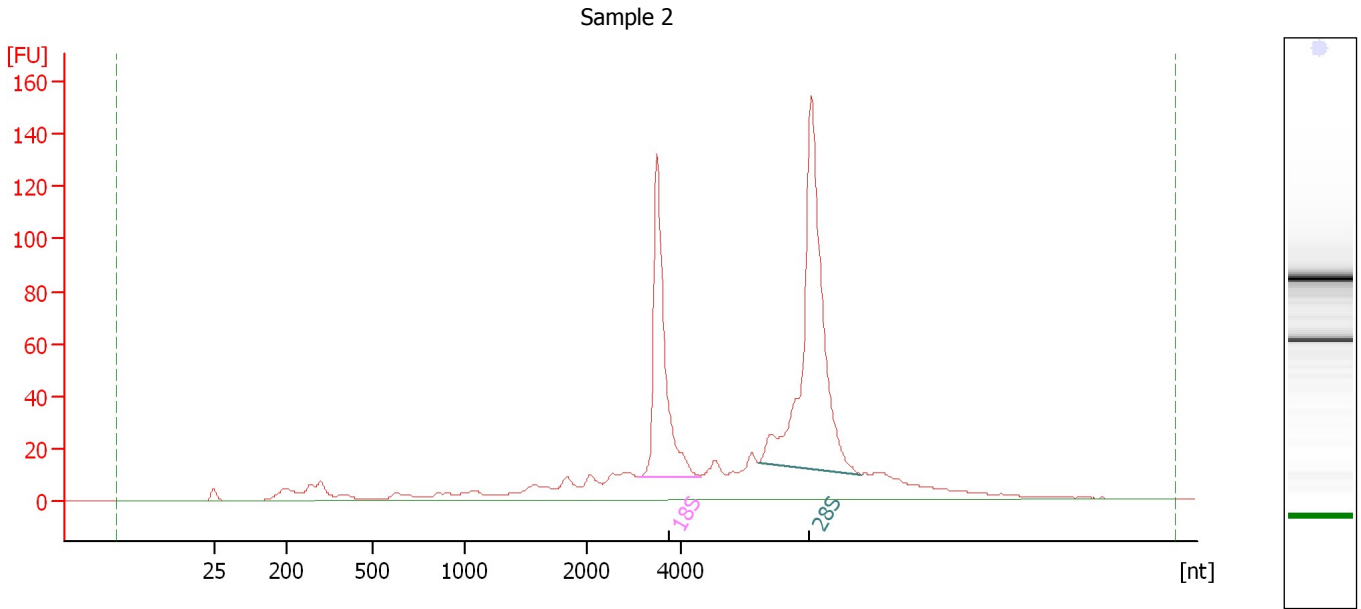
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,282	3,917	6.2	2.8
28S	6,137	7,587	24.6	11.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	938.1	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	589 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.80

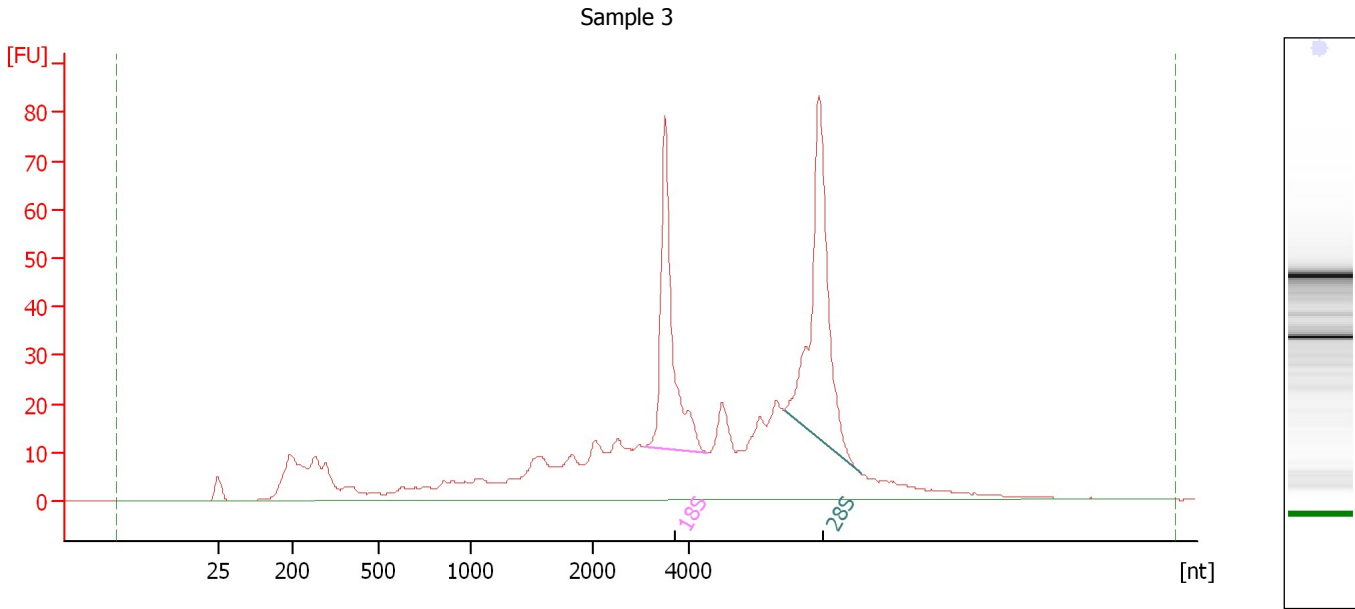
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,120	4,399	160.7	17.1
28S	5,609	7,785	287.3	30.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	763.5	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	479 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.30

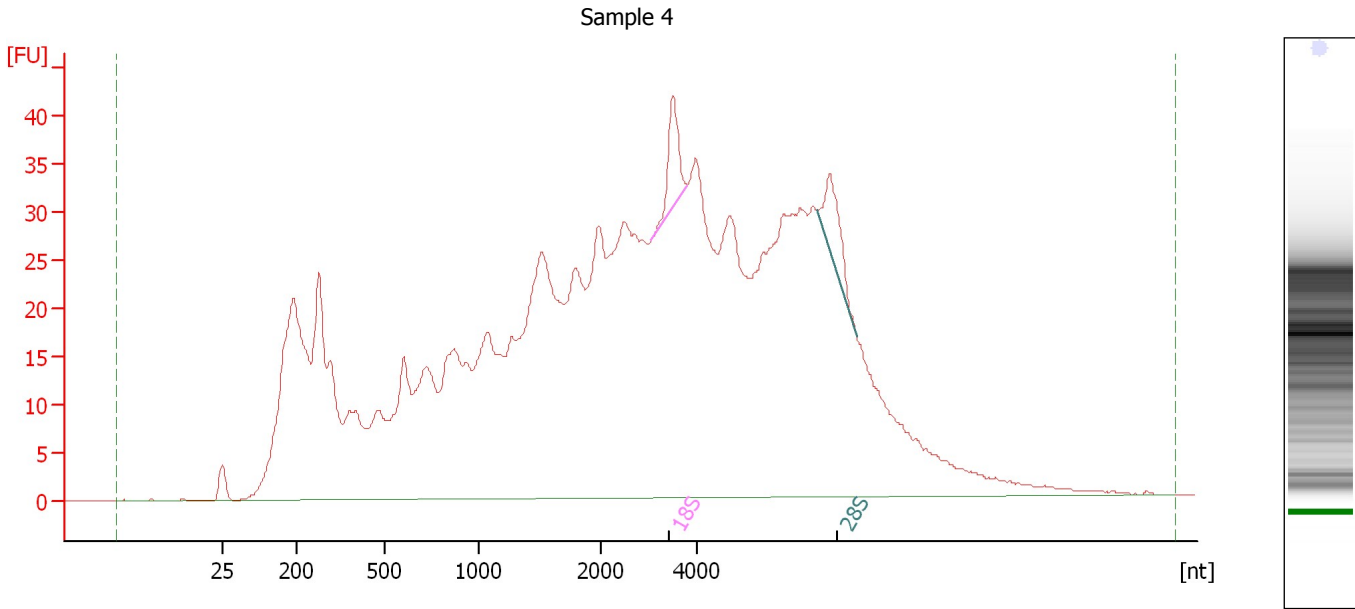
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,069	4,381	91.6	12.0
28S	5,982	7,561	119.0	15.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area: 1,471.8 RNA Integrity Number (RIN): 2.6 (B.02.08)
RNA Concentration: 923 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 2.60

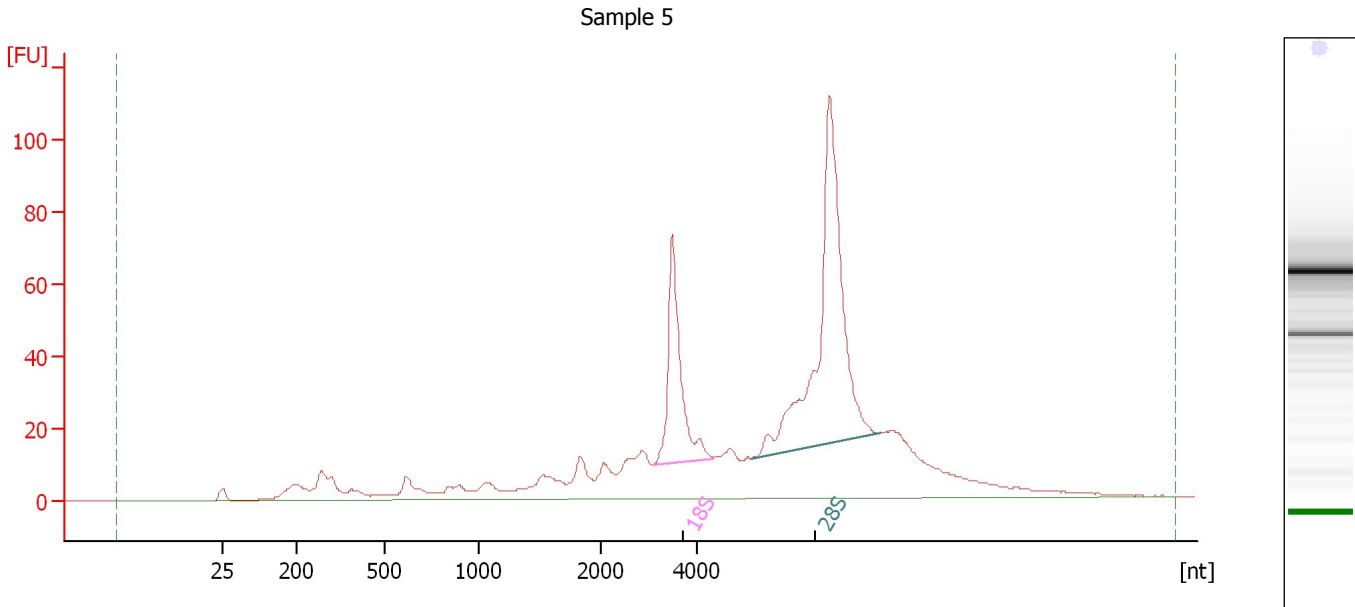
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,041	3,791	13.8	0.9
28S	6,481	7,276	13.1	0.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
 Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	915.6	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	574 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 8.30

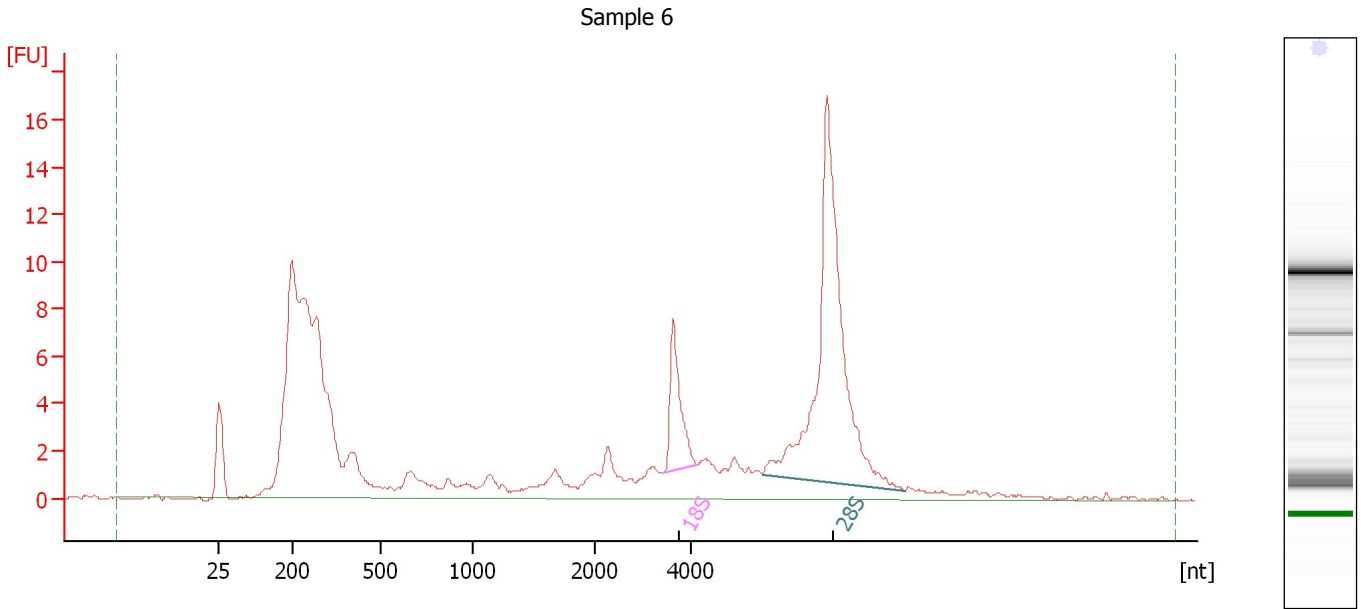
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,063	4,320	90.5	9.9
28S	5,114	7,783	229.5	25.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	167.2	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	105 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	5.1	Result Flagging Label:	RIN: 8.20

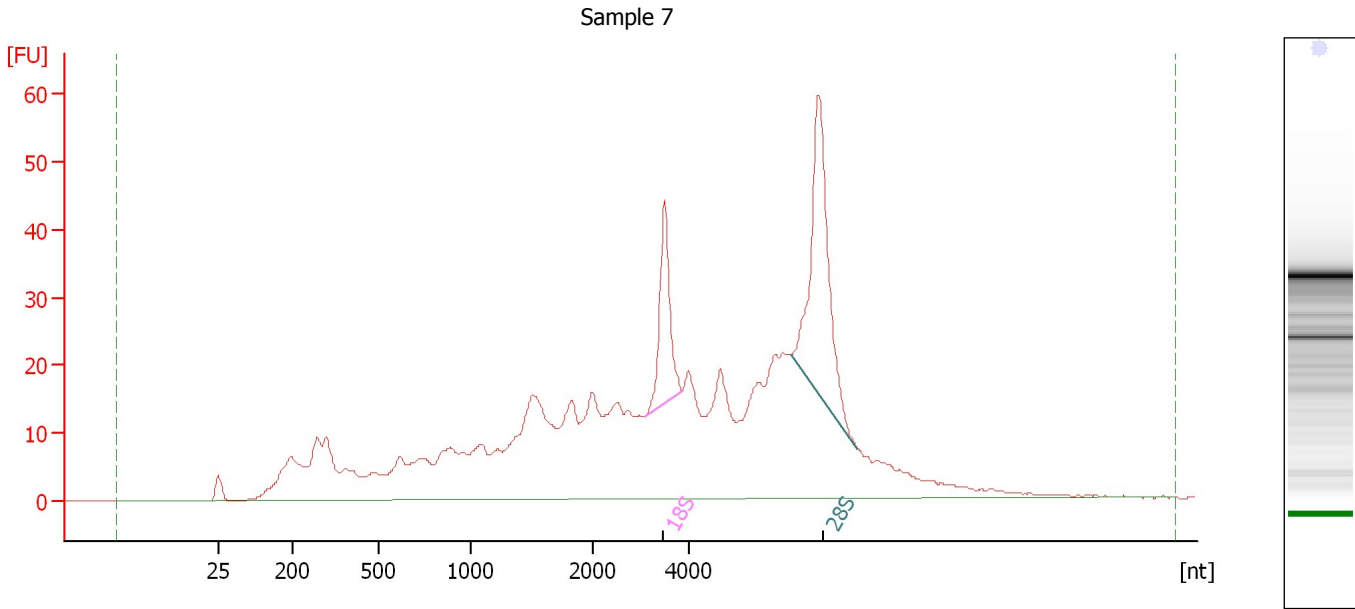
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,384	4,116	7.5	4.5
28S	5,470	8,422	38.0	22.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
 Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	857.3	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	538 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 5.40

Fragment table for sample 7 : Sample 7

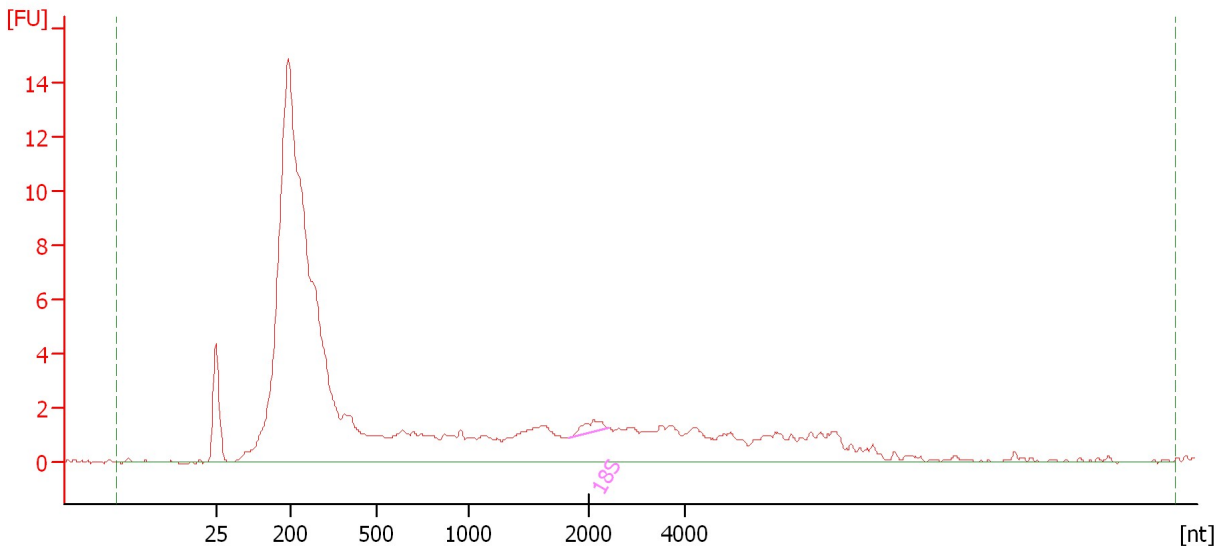
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,069	3,847	35.3	4.1
28S	6,094	7,495	79.2	9.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

RNA Area:	152.0	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	95 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Fragment table for sample 8 : Sample 8

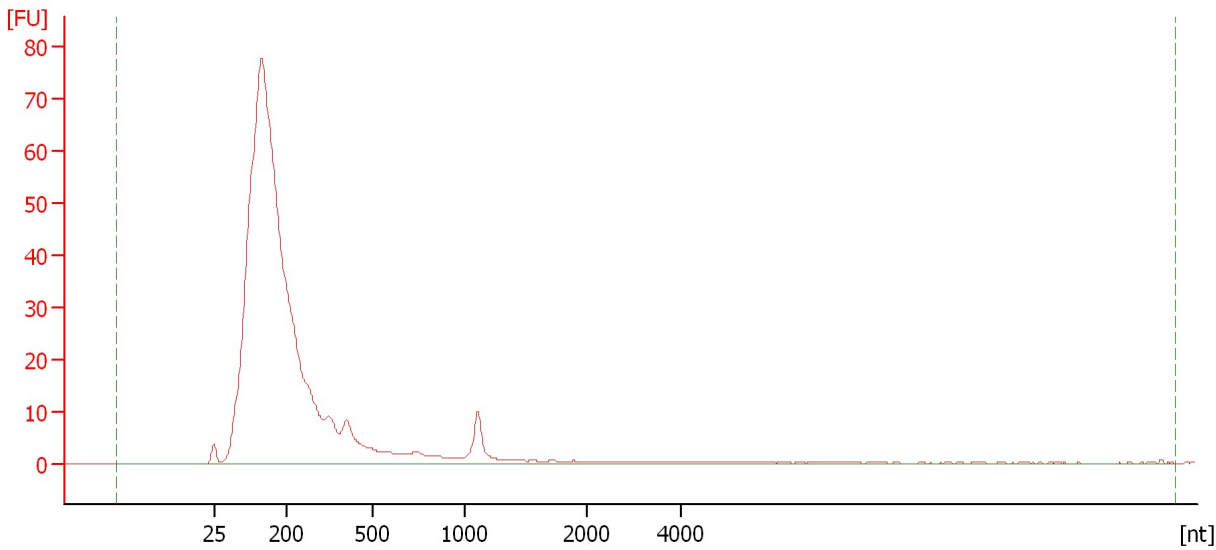
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,828	2,391	1.2	0.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

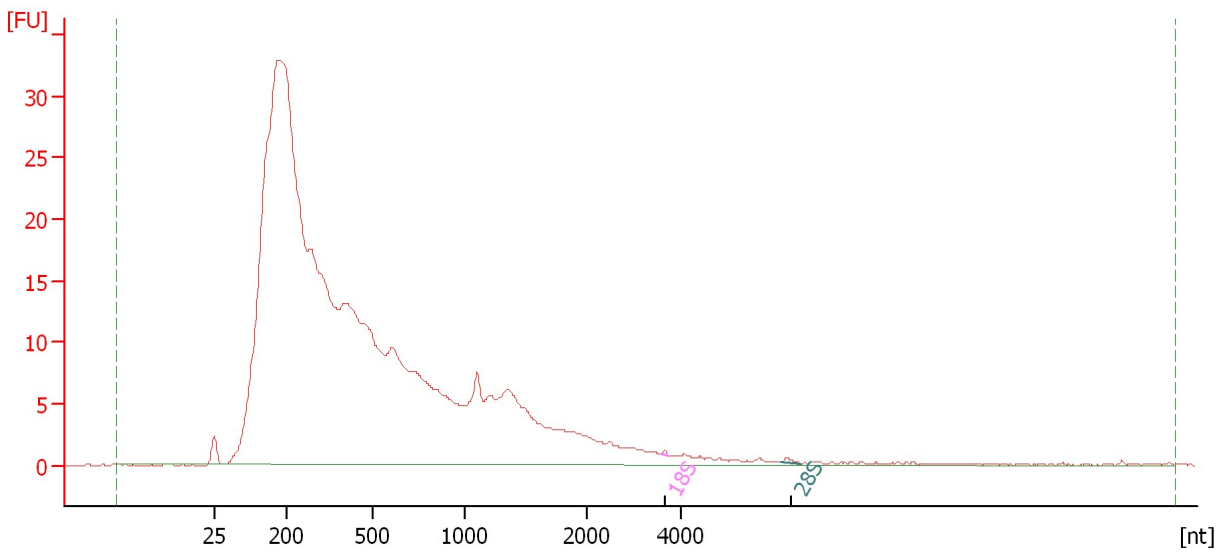
RNA Area:	670.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	421 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

RNA Area:	559.2	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	351 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 2.10

Fragment table for sample 10 : Sample 10

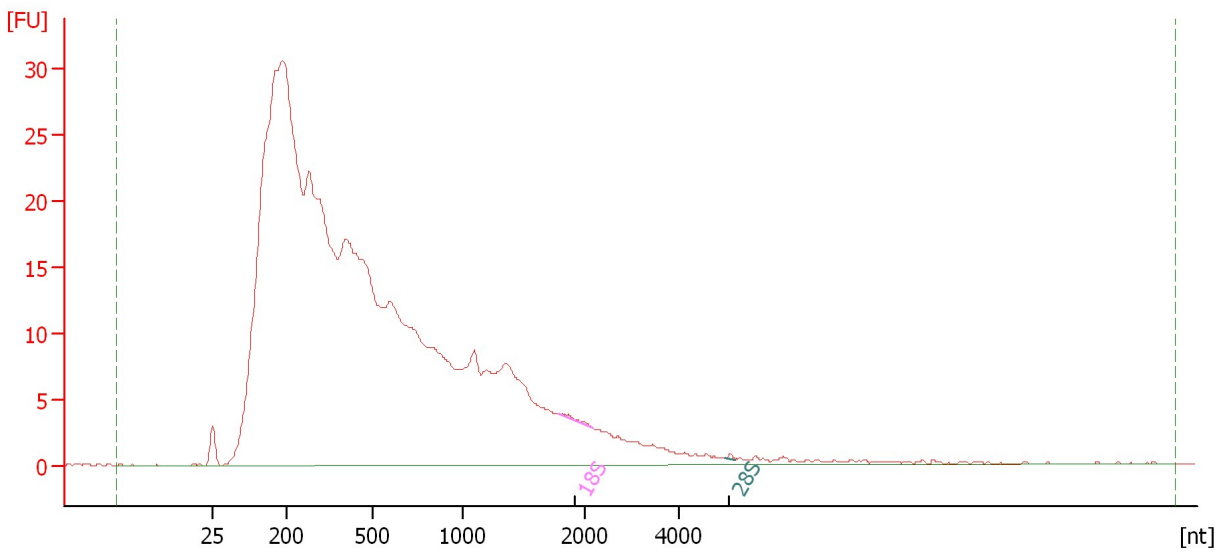
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,569	3,748	0.2	0.0
28S	6,103	6,506	0.3	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

RNA Area:	661.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	415 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 2.20

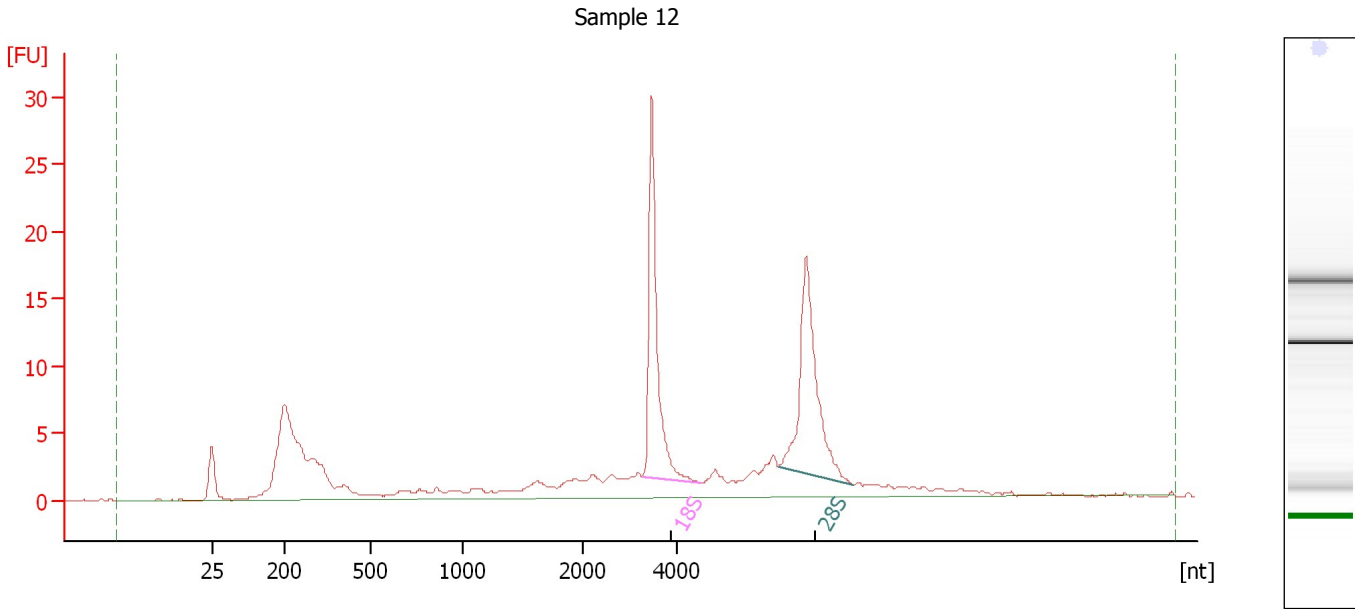
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,784	2,173	0.7	0.1
28S	4,959	5,184	0.2	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area: 166.2 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 104 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN:8

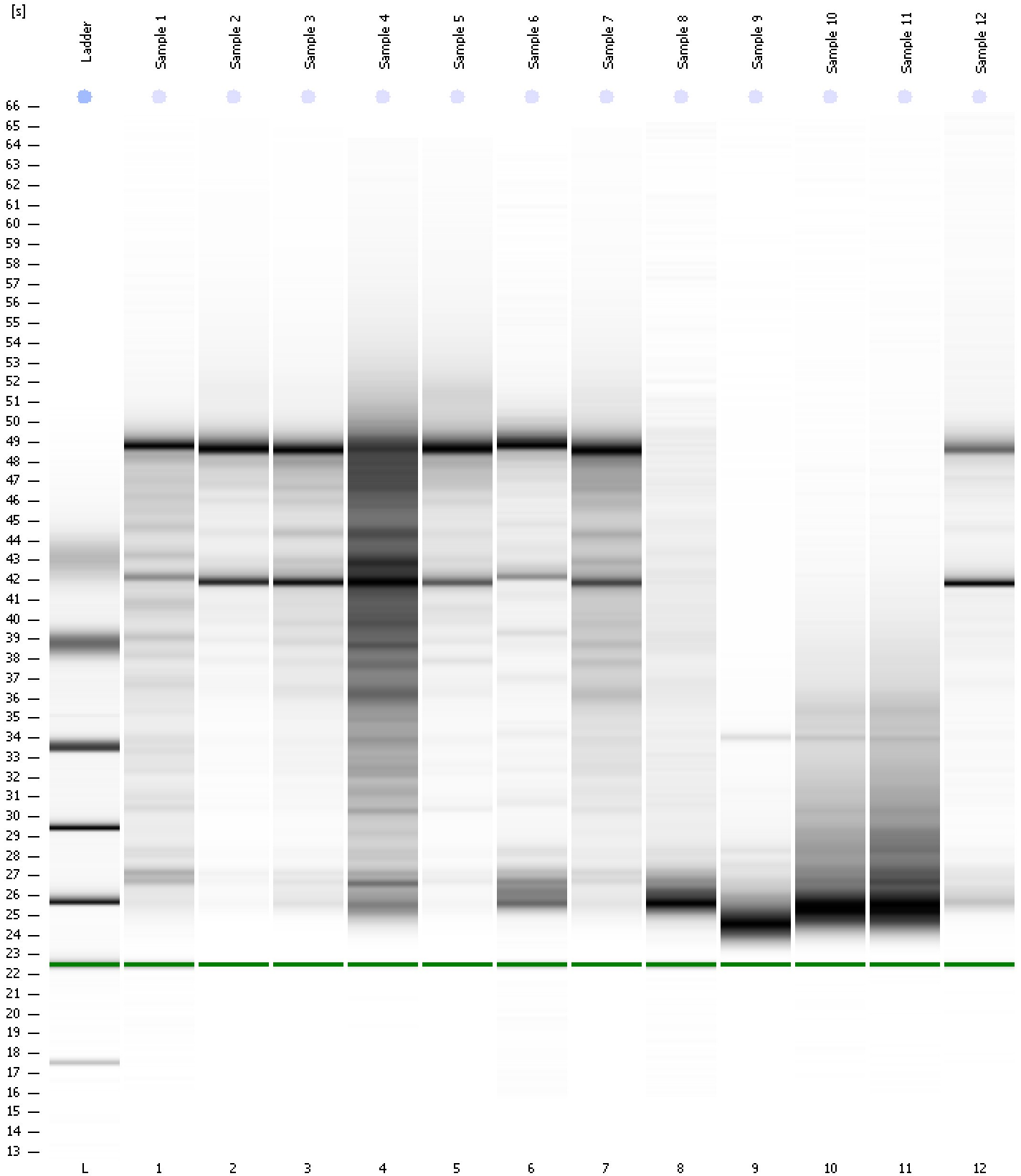
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,270	4,509	28.6	17.2
28S	6,130	7,684	27.6	16.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
Modified: 7/10/2014 3:36:58 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-10\2014-07-10_005.xad

Created: 7/10/2014 3:13:50 PM
 Modified: 7/10/2014 3:36:58 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		7/10/2014 3:36:56 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\2014-07-10\2014-07-10_005.xad)		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/10/2014 3:13:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1