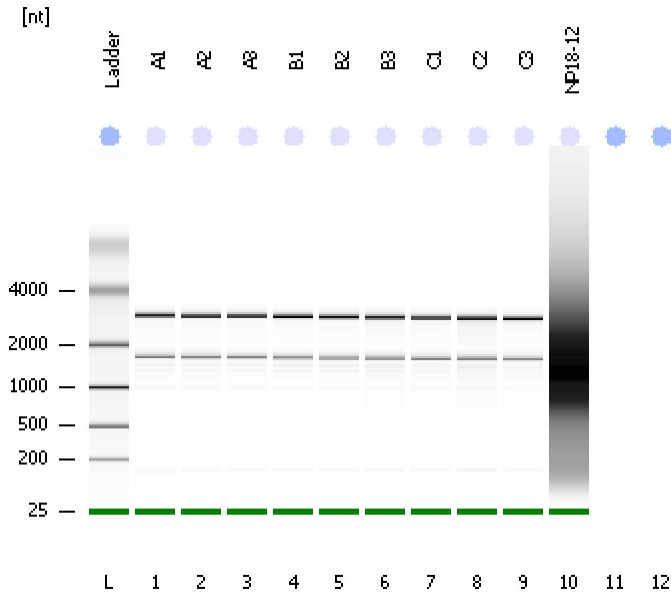


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electrophoresis File Run Summary



Instrument Information:

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

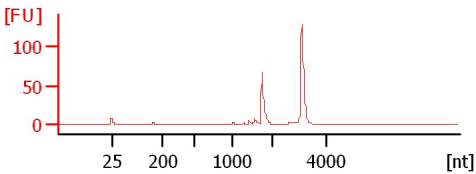
Assay Information:

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)
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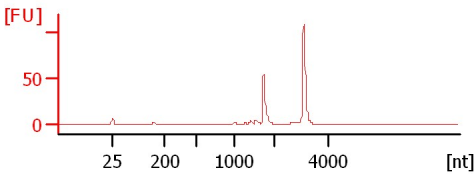
Chip Information:

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

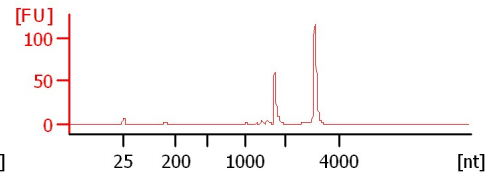
A1
RIN: 9.30



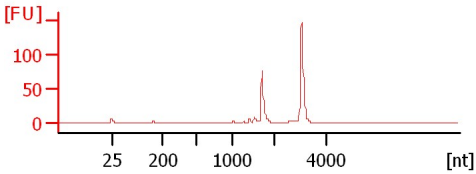
A2
RIN: 9.20



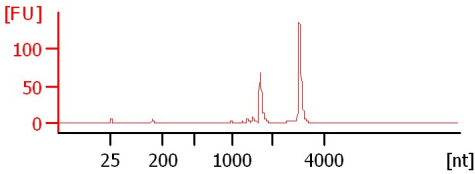
A3
RIN: 9.30



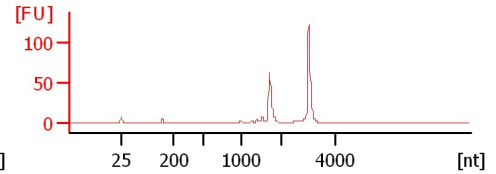
B1
RIN: 9.20



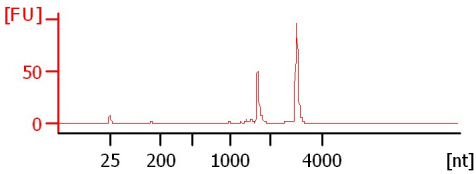
B2
RIN: 9.20



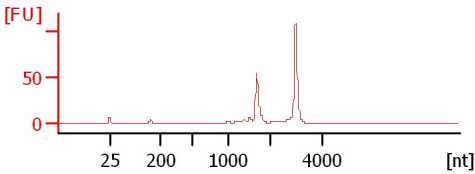
B3
RIN: 9



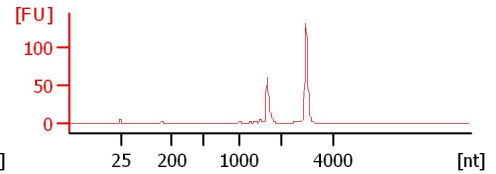
C1
RIN: 9.20



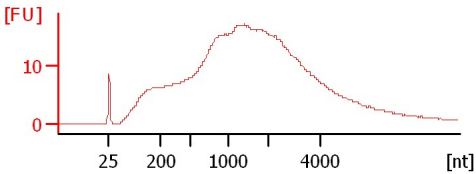
C2
RIN: 8.80



C3
RIN: 9.10



NP18-12
RIN: 3.20



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
 Modified: 2/22/2012 9:43:26 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
A1		✓	RIN: 9.30	
A2		✓	RIN: 9.20	
A3		✓	RIN: 9.30	
B1		✓	RIN: 9.20	
B2		✓	RIN: 9.20	
B3		✓	RIN:9	
C1		✓	RIN: 9.20	
C2		✓	RIN: 8.80	
C3		✓	RIN: 9.10	
NP18-12		✓	RIN: 3.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 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

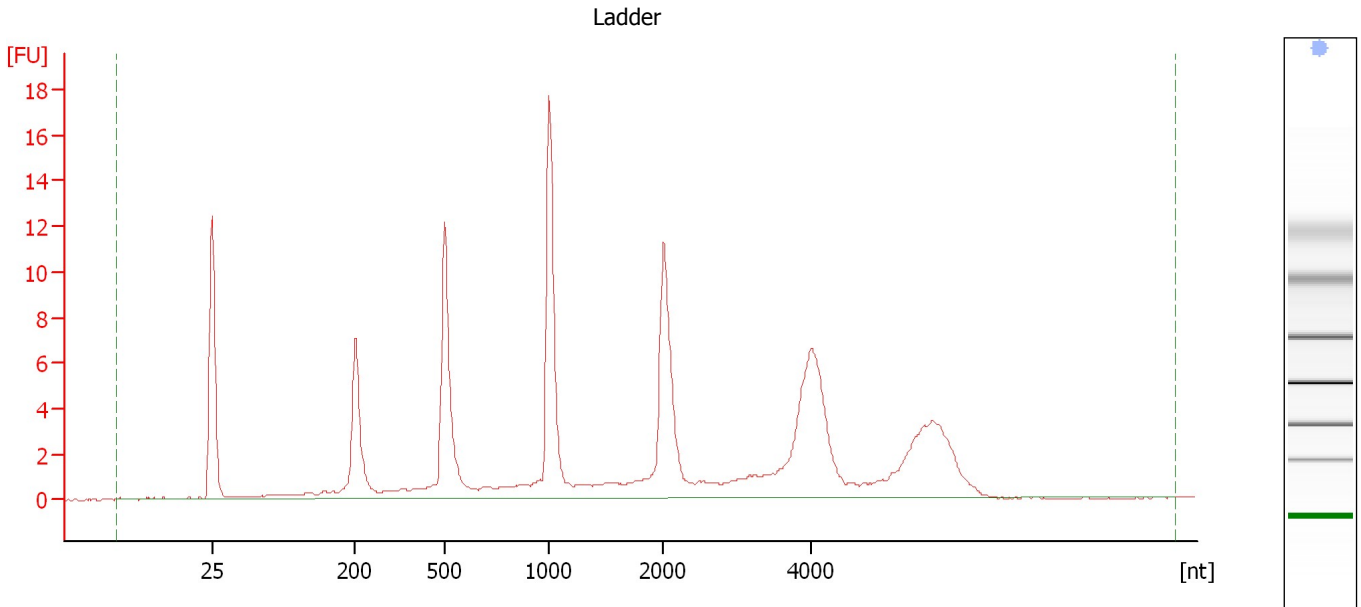
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary



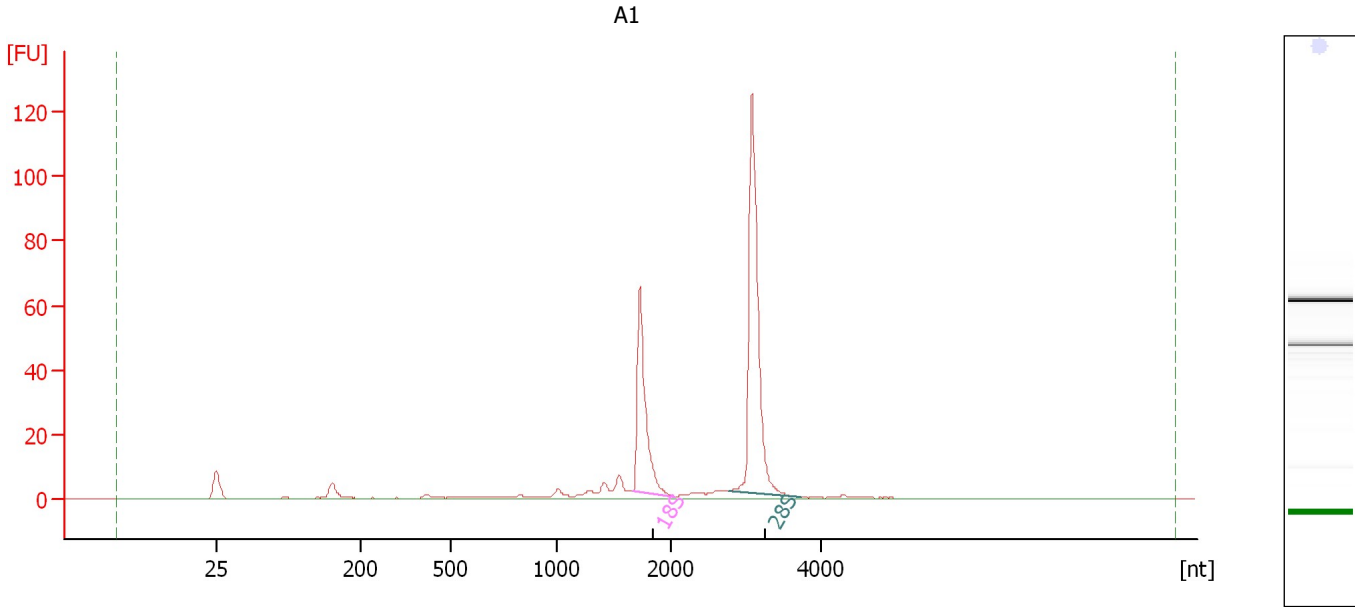
Overall Results for Ladder

RNA Area:	123.7	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\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : A1

RNA Area:	263.9	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	320 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.30

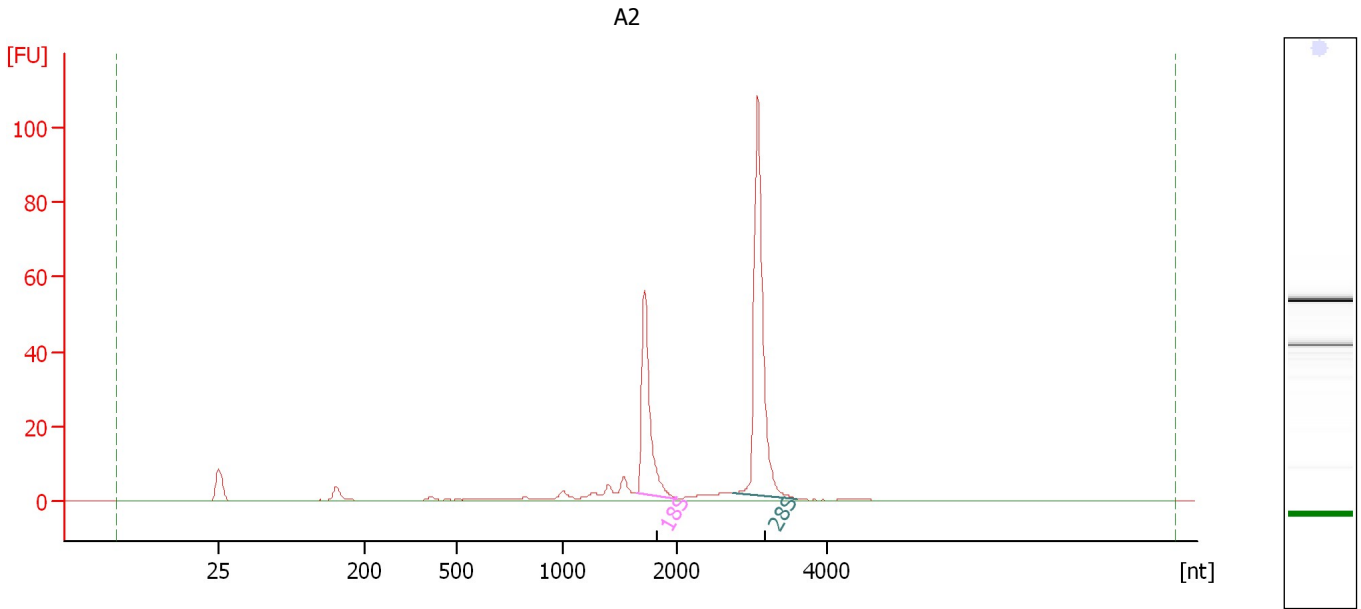
Fragment table for sample 1 : A1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,667	2,063	63.3	24.0
28S	2,777	3,733	119.5	45.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : A2

RNA Area:	213.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	259 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.20

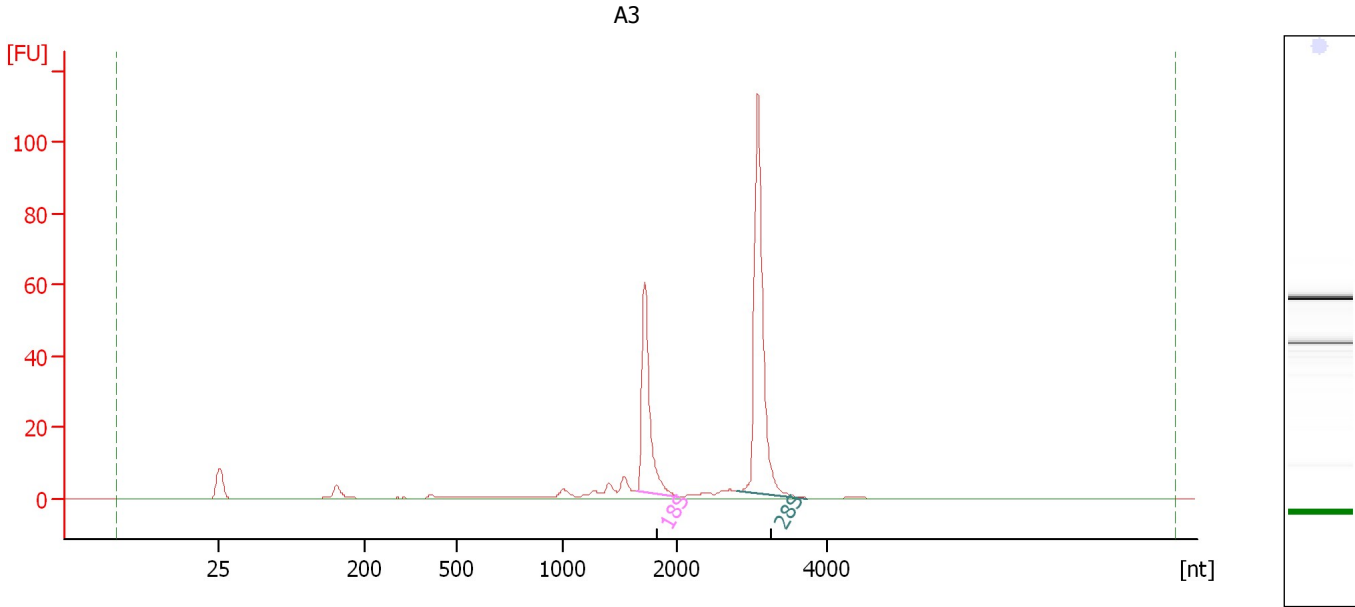
Fragment table for sample 2 : A2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	1,998	51.7	24.2
28S	2,749	3,600	97.9	45.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : A3

RNA Area: 218.6 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 265 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.30

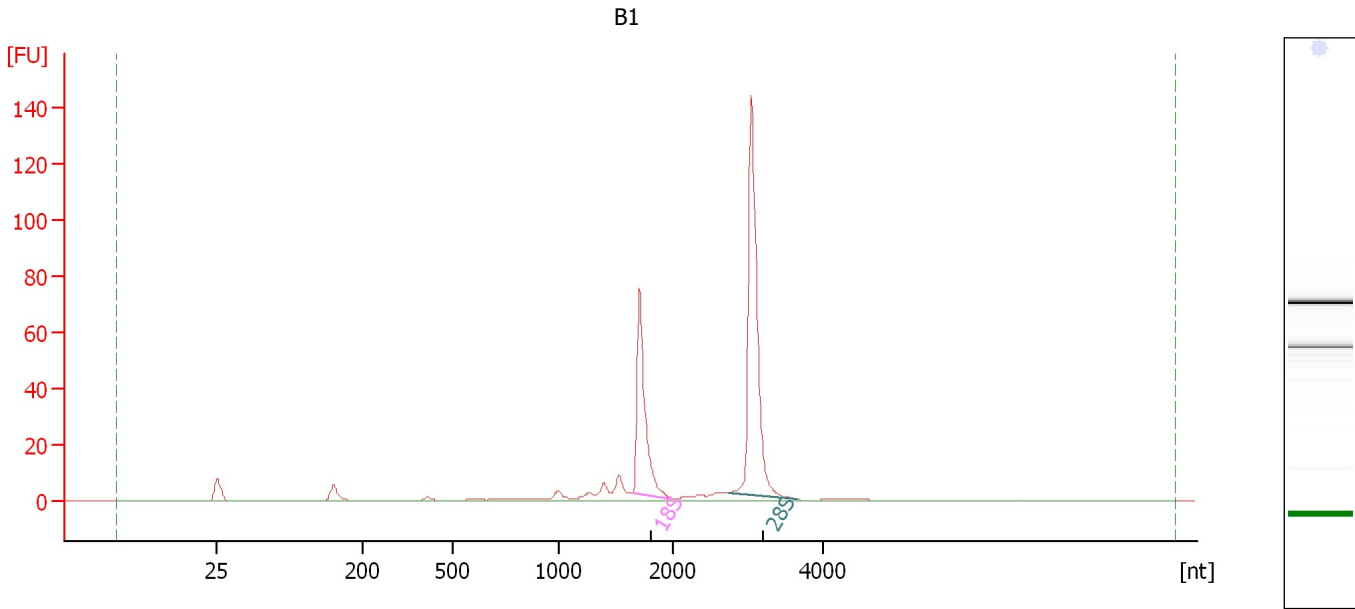
Fragment table for sample 3 : A3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	2,025	53.4	24.4
28S	2,805	3,713	101.6	46.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : B1

RNA Area:	296.4	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	359 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.20

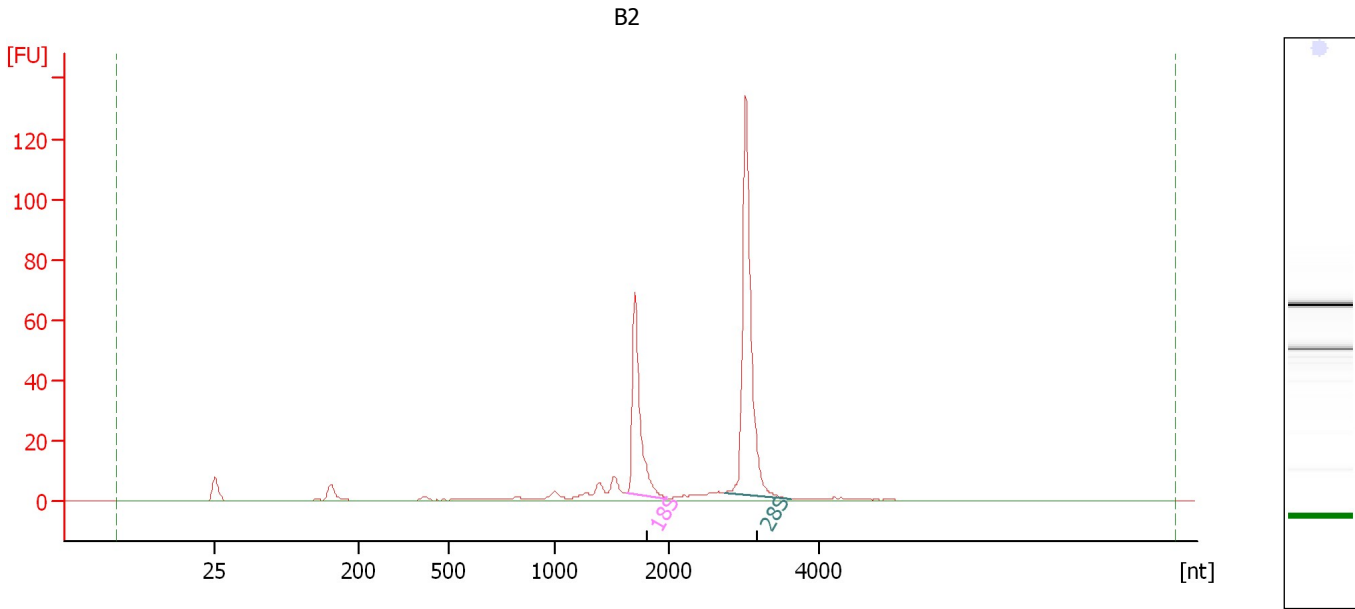
Fragment table for sample 4 : B1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,986	71.0	24.0
28S	2,734	3,660	133.2	45.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : B2

RNA Area: 275.0 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 333 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.20

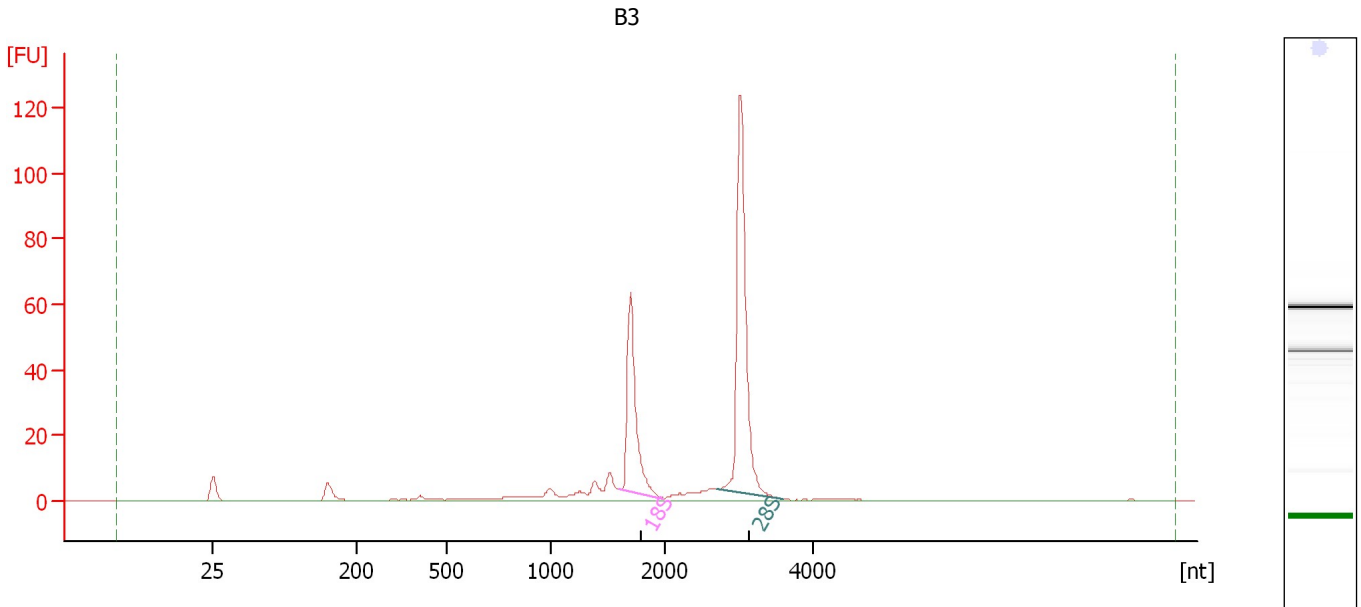
Fragment table for sample 5 : B2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	1,984	65.7	23.9
28S	2,748	3,620	123.7	45.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : B3

RNA Area:	267.6	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	324 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:9

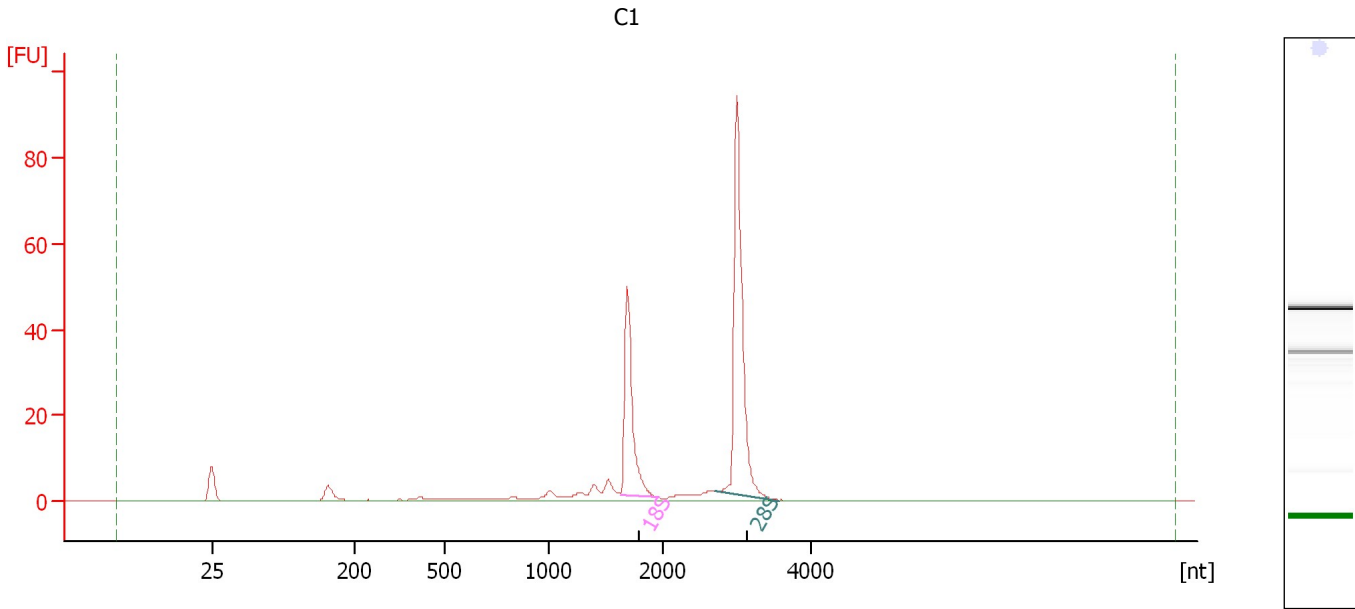
Fragment table for sample 6 : B3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,982	62.2	23.3
28S	2,705	3,581	115.8	43.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : C1

RNA Area: 186.3 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 226 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.20

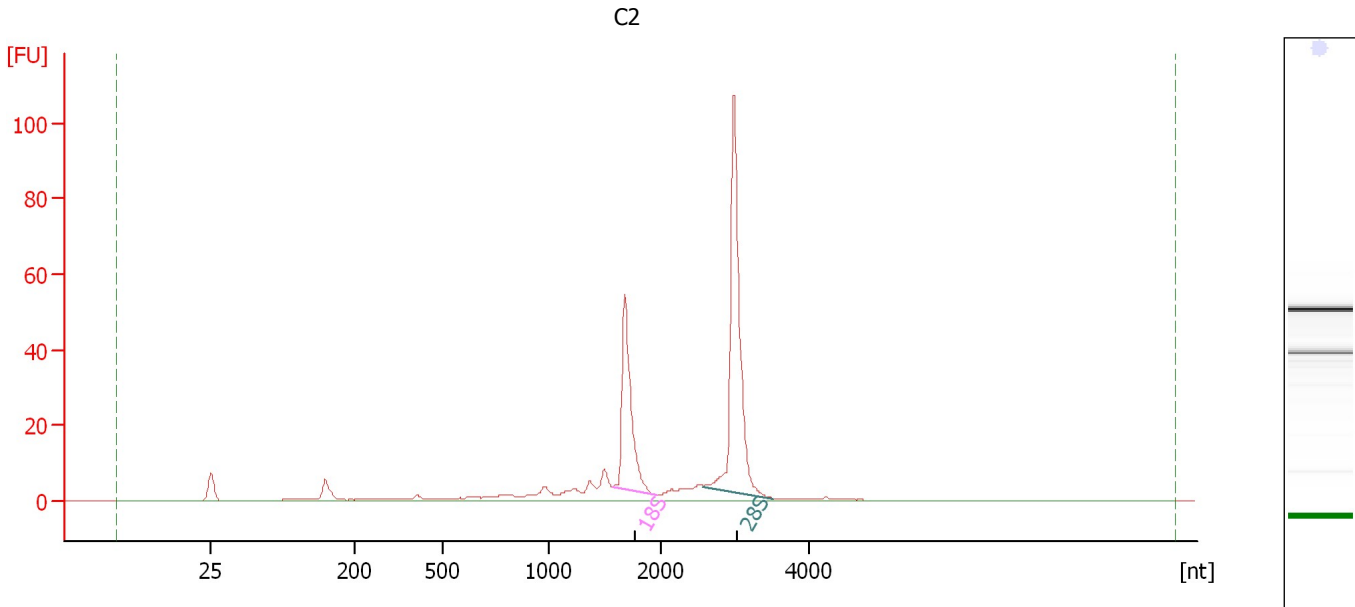
Fragment table for sample 7 : C1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,971	44.3	23.8
28S	2,690	3,553	83.4	44.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : C2

RNA Area:	270.3	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	328 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 8.80

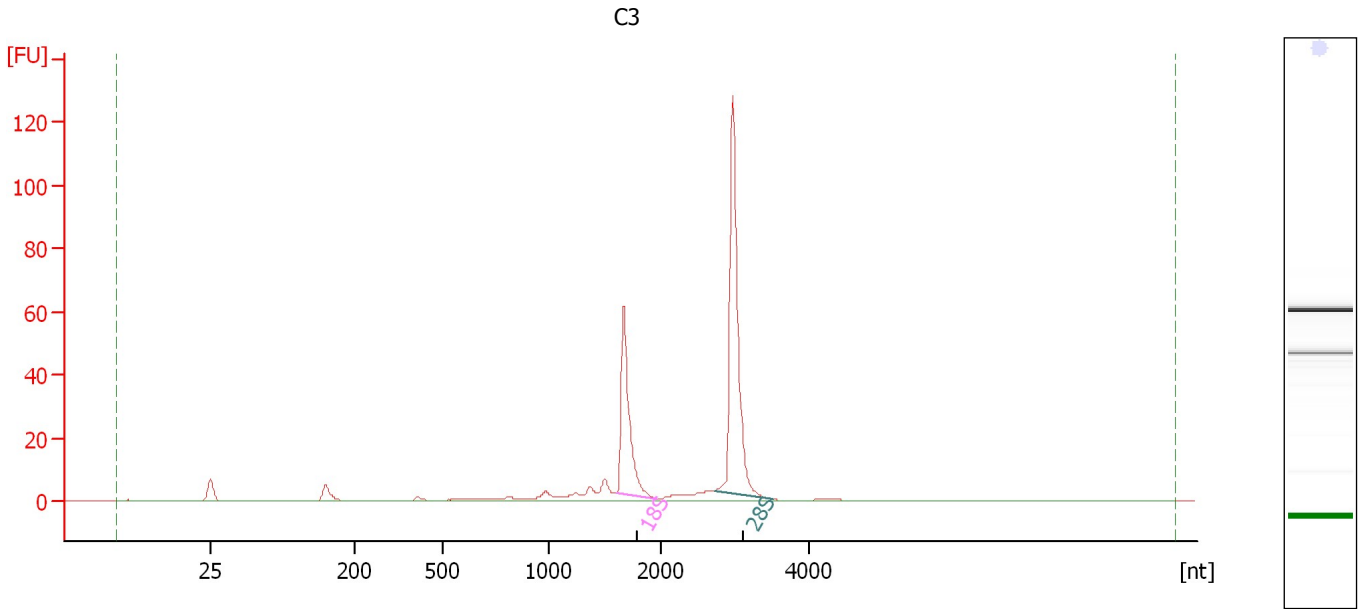
Fragment table for sample 8 : C2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,961	56.4	20.9
28S	2,575	3,512	106.7	39.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : C3

RNA Area: 251.0 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 304 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.10

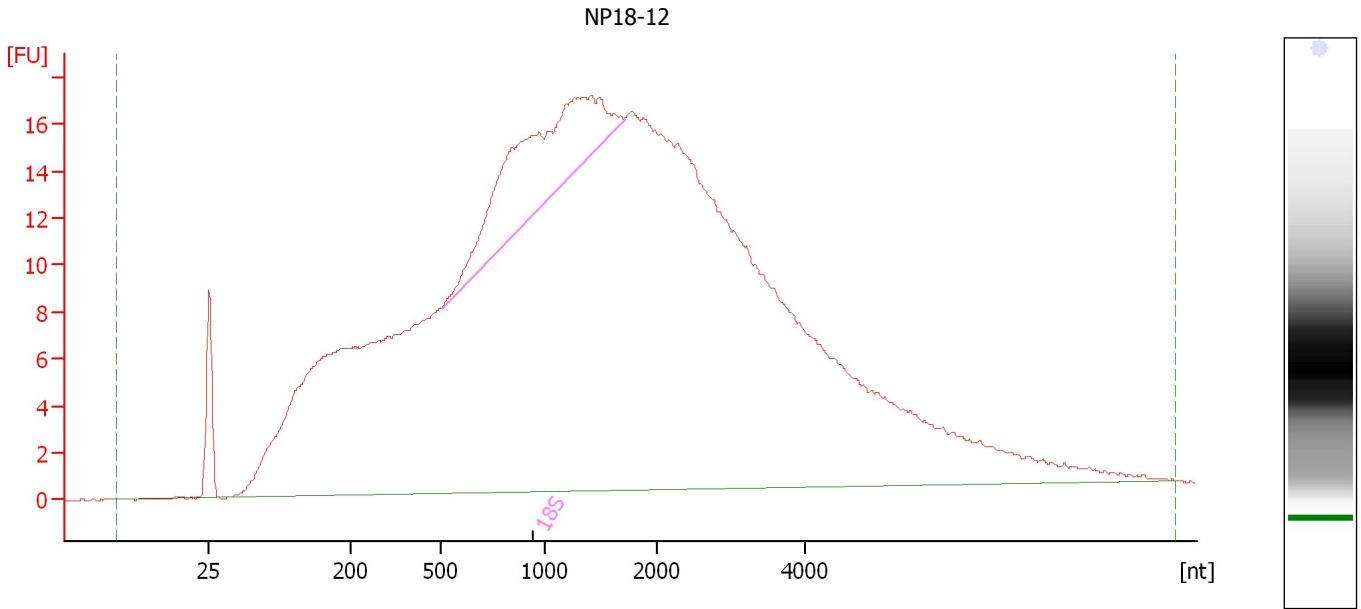
Fragment table for sample 9 : C3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,970	59.2	23.6
28S	2,719	3,512	115.6	46.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : NP18-12

RNA Area:	744.7	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	903 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.20

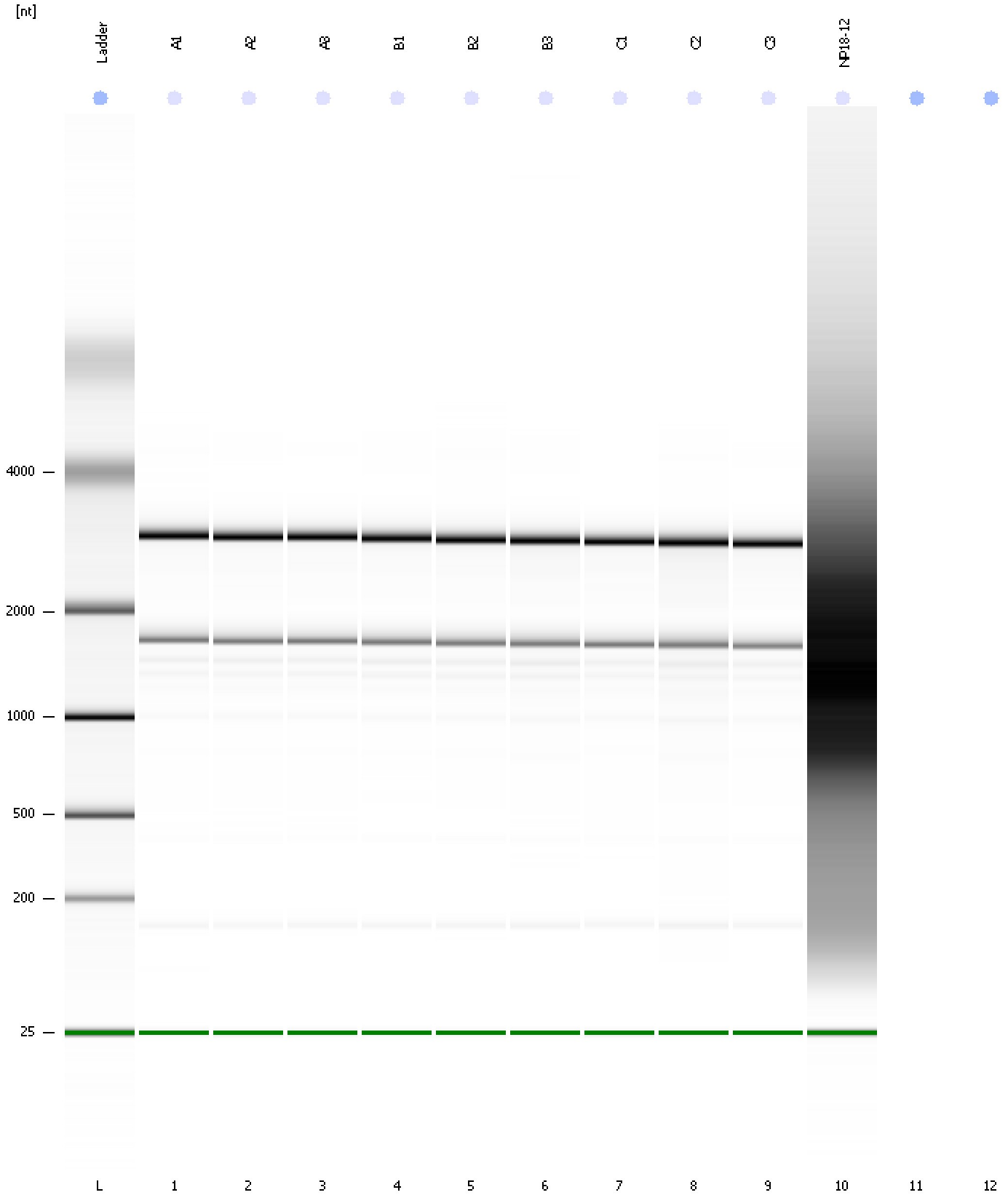
Fragment table for sample 10 : NP18-12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	507	1,711	47.1	6.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
Modified: 2/22/2012 9:43:26 AM

Invalid Samples

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad

Created: 2/22/2012 9:22:12 AM
 Modified: 2/22/2012 9:43:26 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		2/22/2012 9:43:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-02-22\2012-02-22_001.xad)		Instrument	Run		2/22/2012 9:22:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/22/2012 9:22:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/22/2012 9:22:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/22/2012 9:22:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/22/2012 9:22:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/22/2012 9:22:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/22/2012 9:22:19 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1