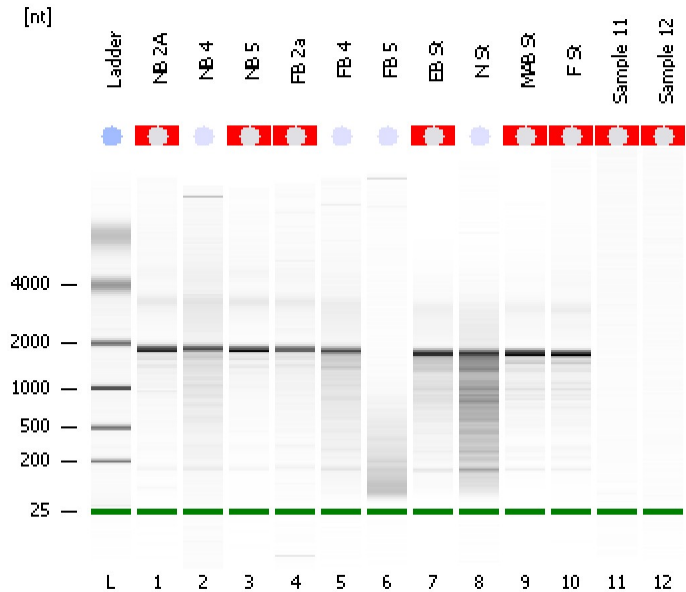


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

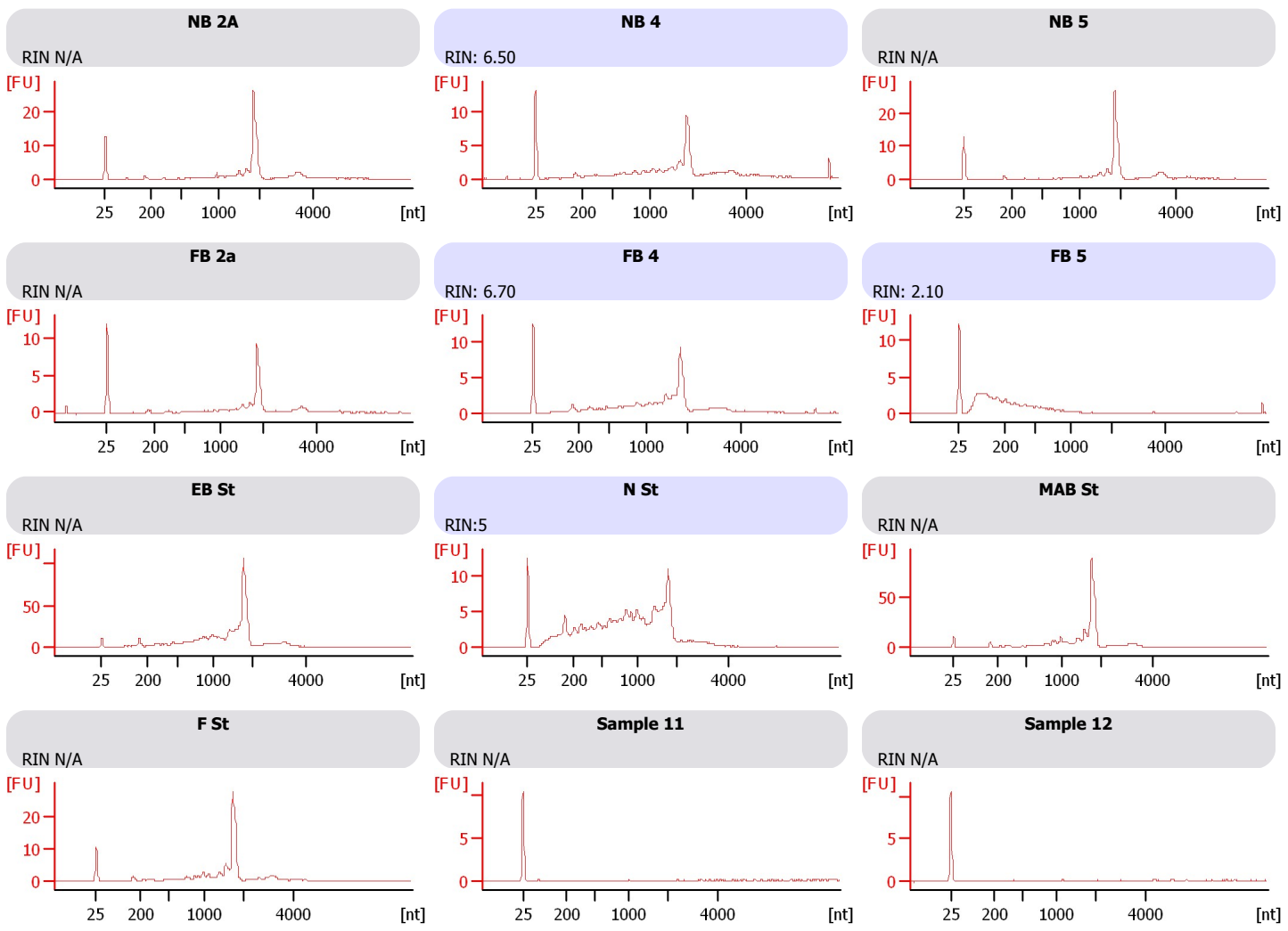
Electrophoresis File Run Summary



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)
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Chip Information:
 Chip Lot #:
 Reagent Kit Lot #:
 Chip Comments:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
NB 2A		✓	RIN N/A	
NB 4		✓	RIN: 6.50	
NB 5		✓	RIN N/A	
FB 2a		✓	RIN N/A	
FB 4		✓	RIN: 6.70	
FB 5		✓	RIN: 2.10	
EB St		✓	RIN N/A	
N St		✓	RIN:5	
MAB St		✓	RIN N/A	
F St		✓	RIN N/A	
Sample 11		✓	RIN N/A	
Sample 12		✓	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\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 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

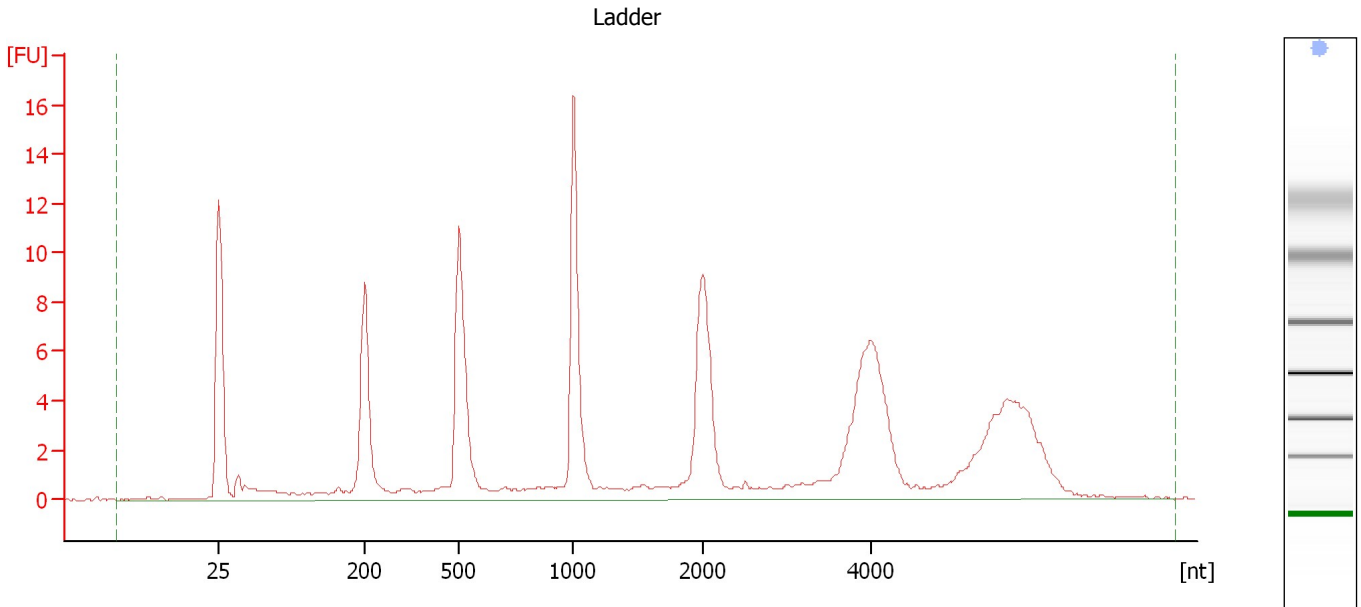
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary



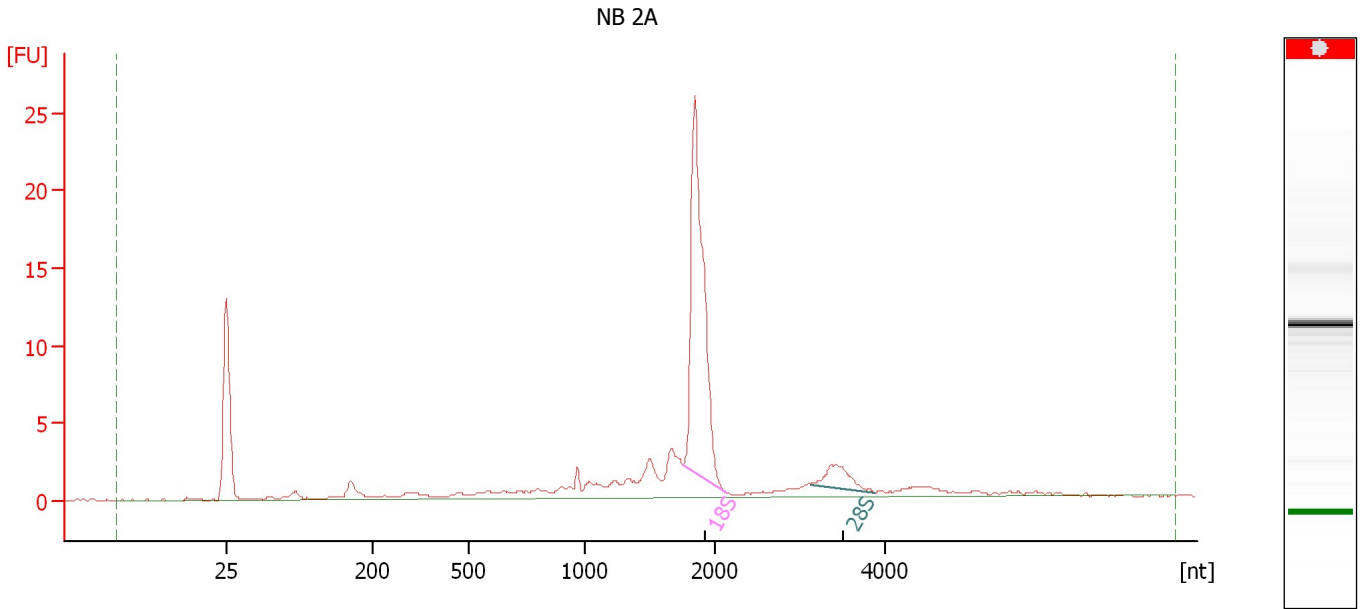
Overall Results for Ladder

RNA Area:	135.6	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
 Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : NB 2A

RNA Area:	84.2	RNA Integrity Number (RIN):	N/A (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	93 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN N/A

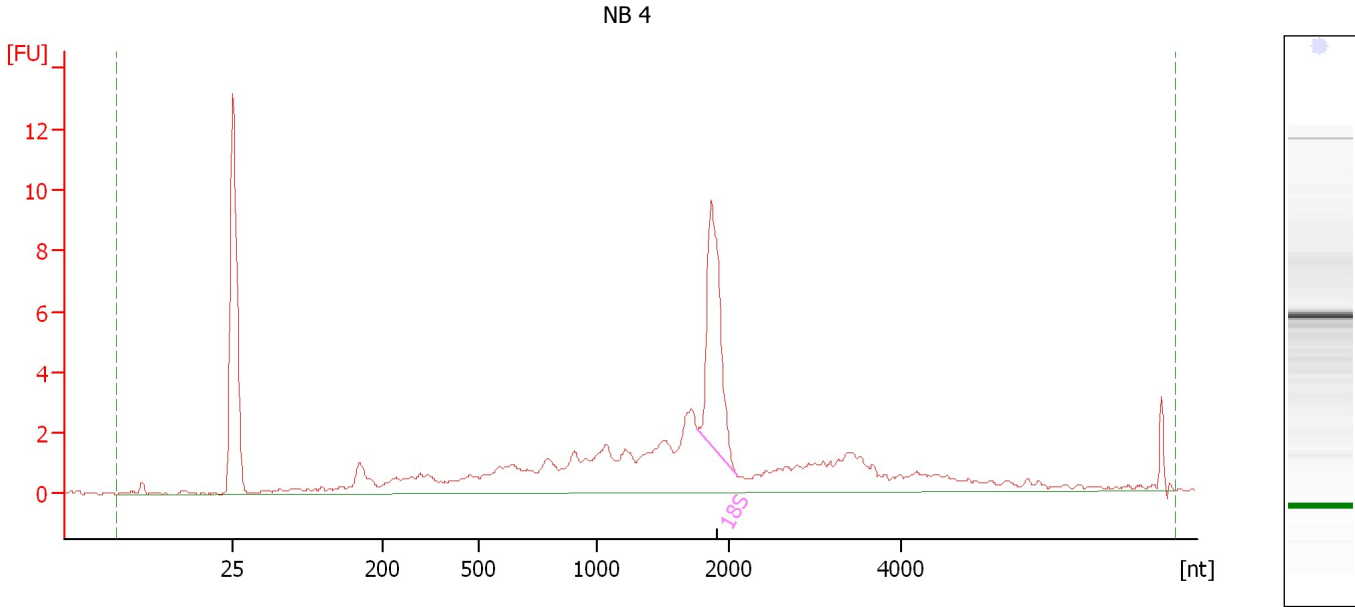
Fragment table for sample 1 : NB 2A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,750	2,131	34.4	40.8
28S	3,125	3,880	3.7	4.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : NB 4

RNA Area:	75.1	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	83 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.50

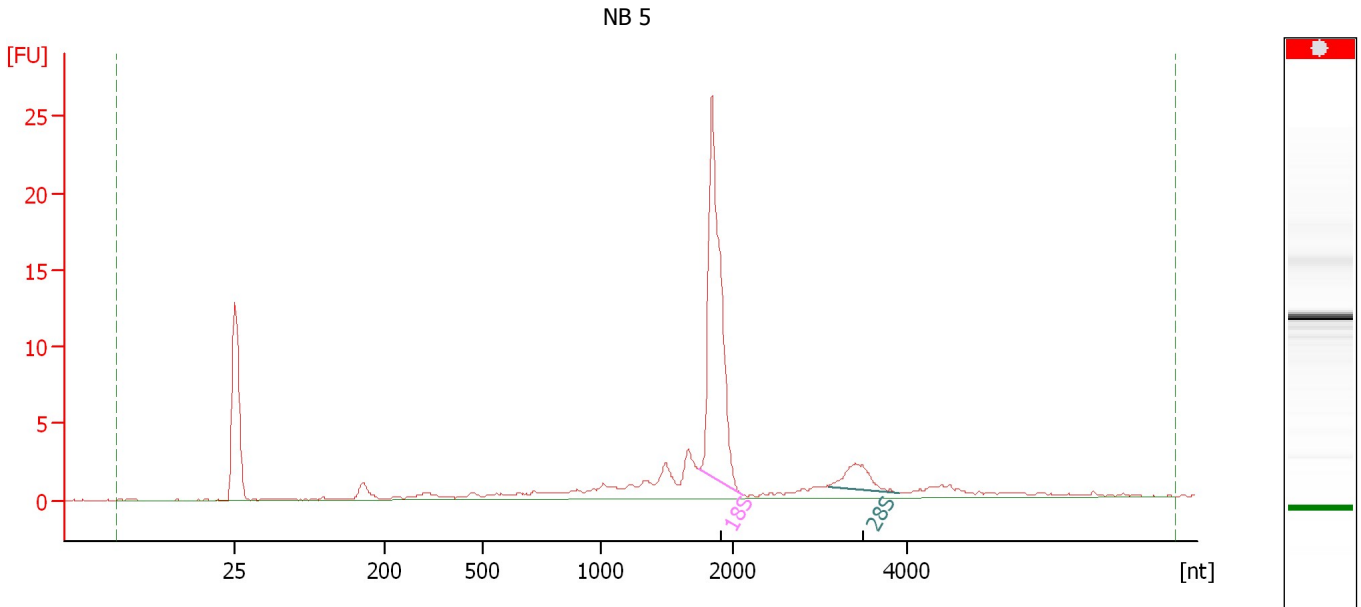
Fragment table for sample 2 : NB 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,757	2,085	12.1	16.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
 Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : NB 5

RNA Area:	74.8	RNA Integrity Number (RIN):	N/A (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	83 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN N/A

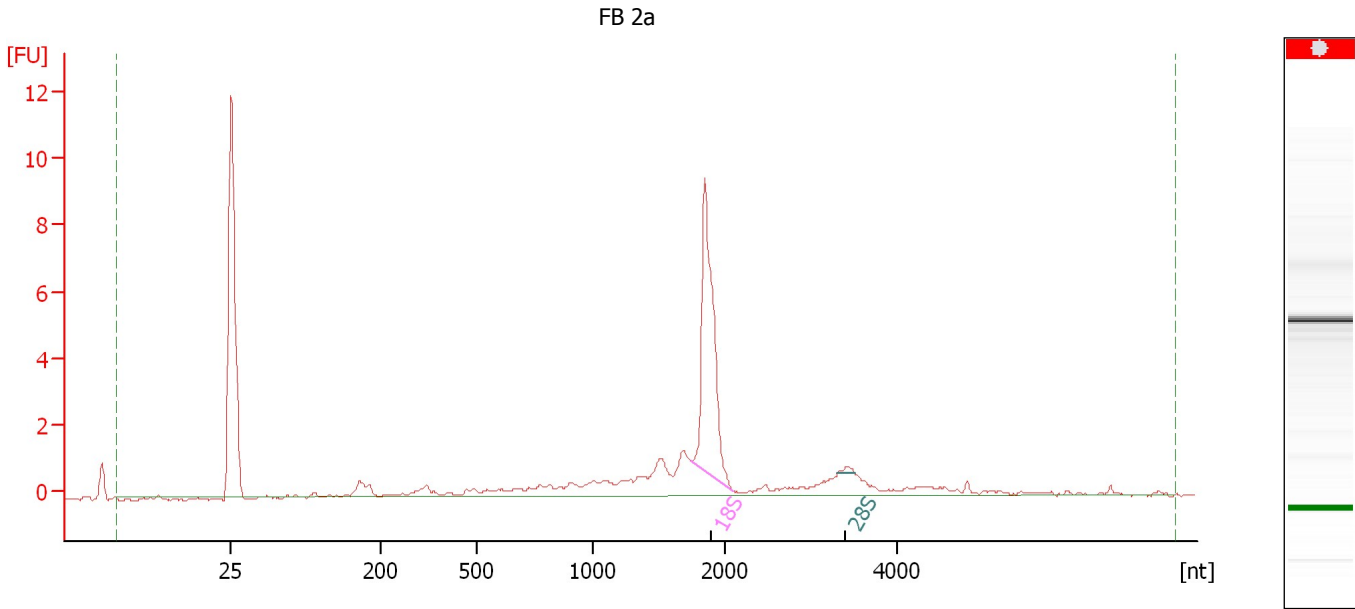
Fragment table for sample 3 : NB 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,743	2,111	33.2	44.4
28S	3,100	3,916	4.2	5.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
 Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : FB 2a

RNA Area:	35.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	39 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

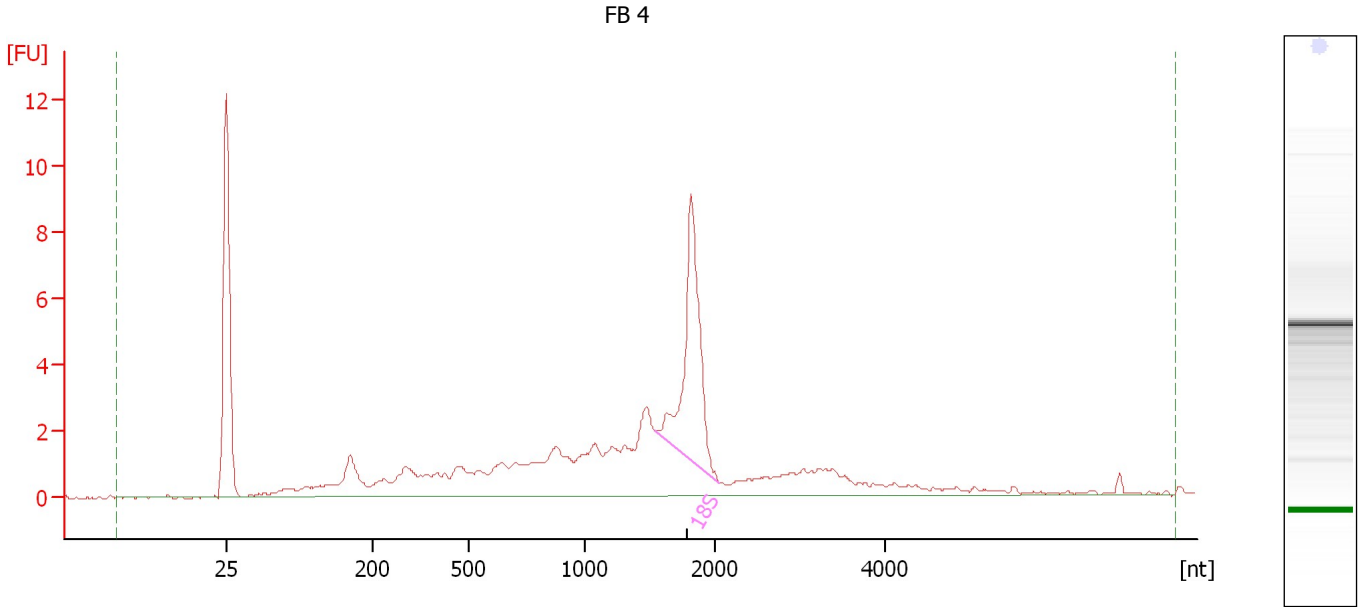
Fragment table for sample 4 : FB 2a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,747	2,096	11.5	32.7
28S	3,305	3,504	0.2	0.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : FB 4

RNA Area:	74.9	RNA Integrity Number (RIN):	6.7 (B.02.08)
RNA Concentration:	83 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.70

Fragment table for sample 5 : FB 4

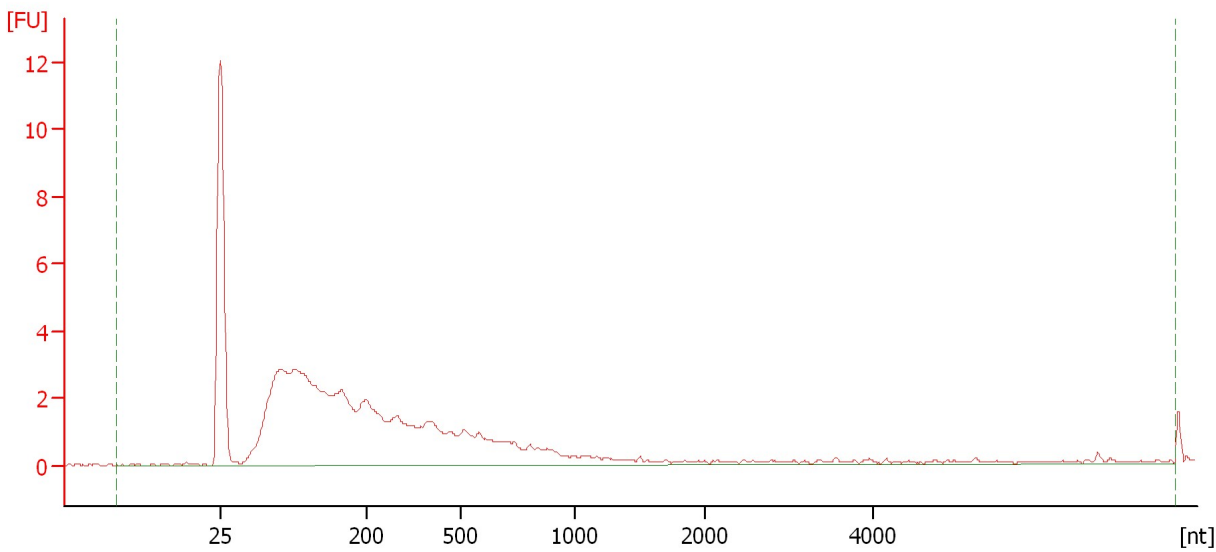
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,546	2,055	13.7	18.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...

FB 5



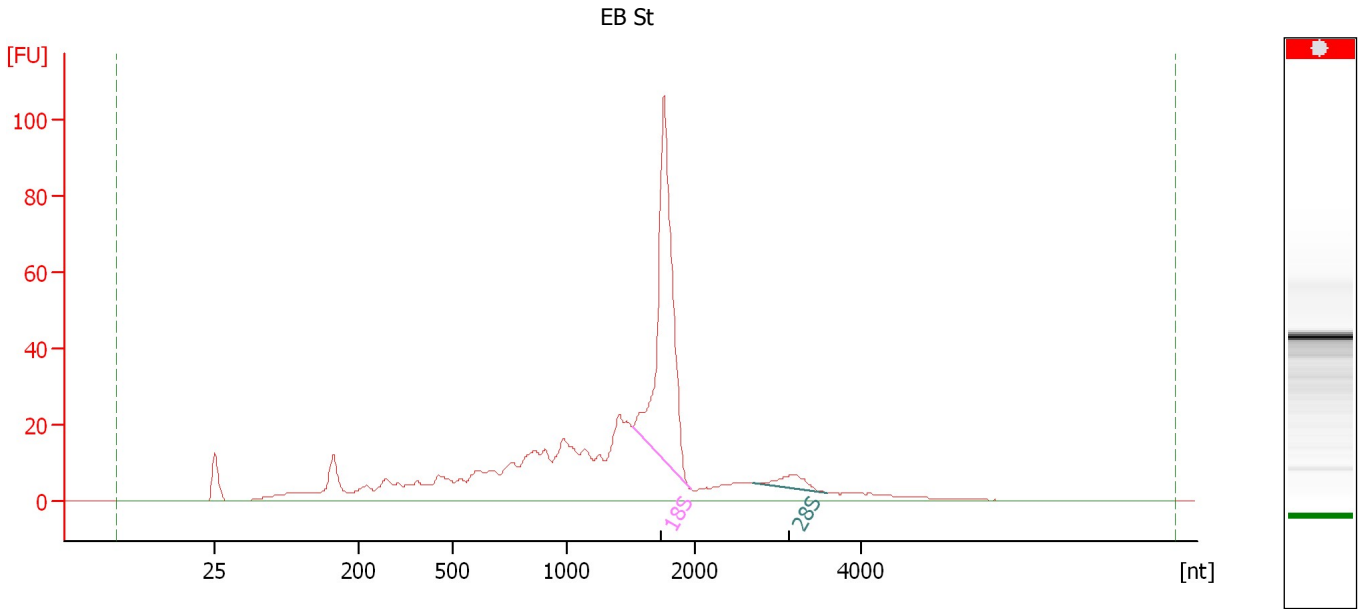
Overall Results for sample 6 : FB 5

RNA Area:	69.7	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	77 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : EB St

RNA Area:	654.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	724 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN N/A

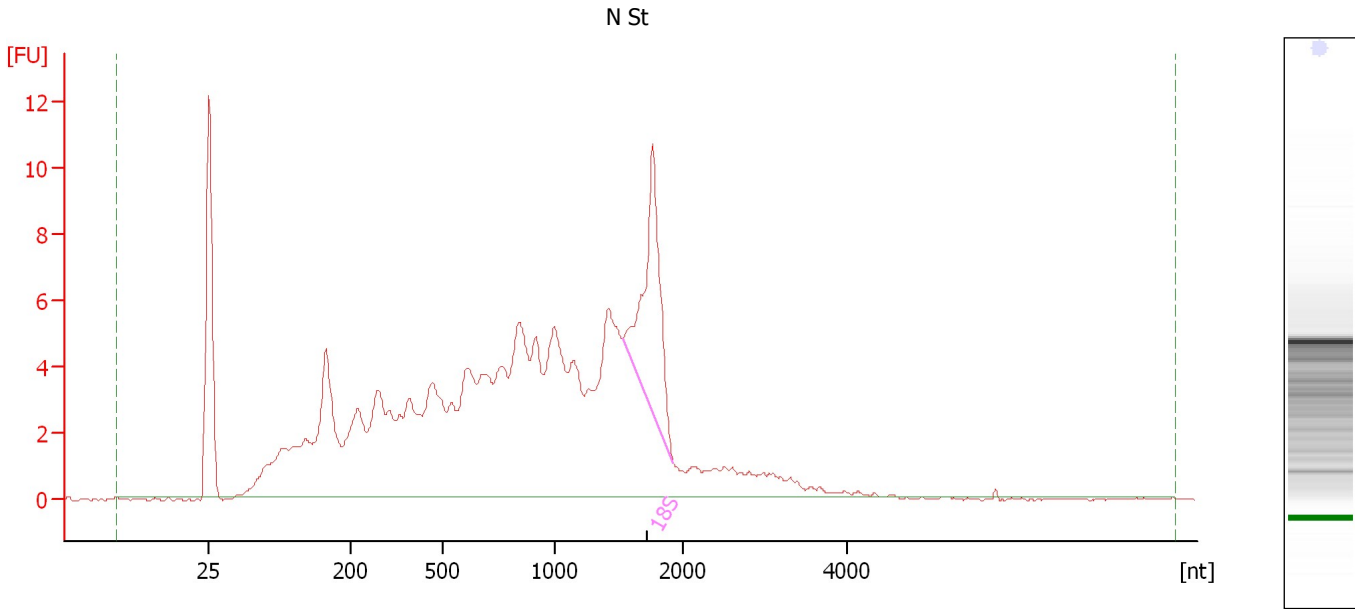
Fragment table for sample 7 : EB St

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,514	1,972	162.3	24.8
28S	2,715	3,601	10.5	1.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : N St

RNA Area: 189.9 RNA Integrity Number (RIN): 5 (B.02.08)
RNA Concentration: 210 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN:5

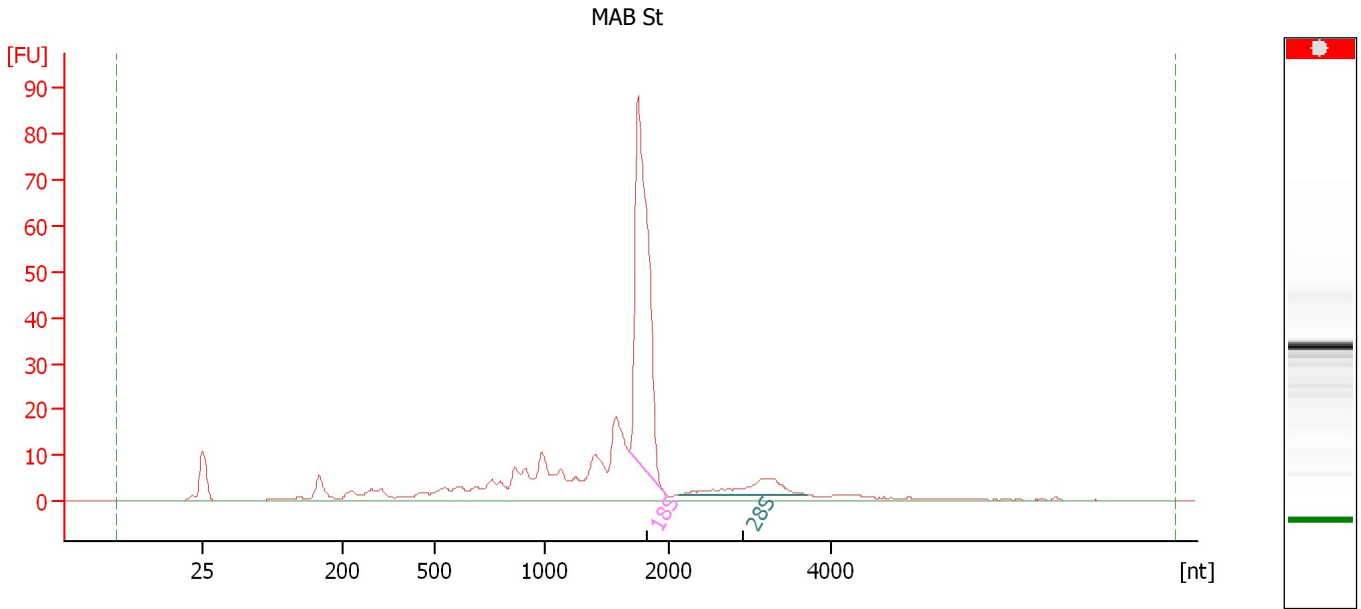
Fragment table for sample 8 : N St

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,530	1,935	15.1	8.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MAB St

RNA Area:	361.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	400 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN N/A

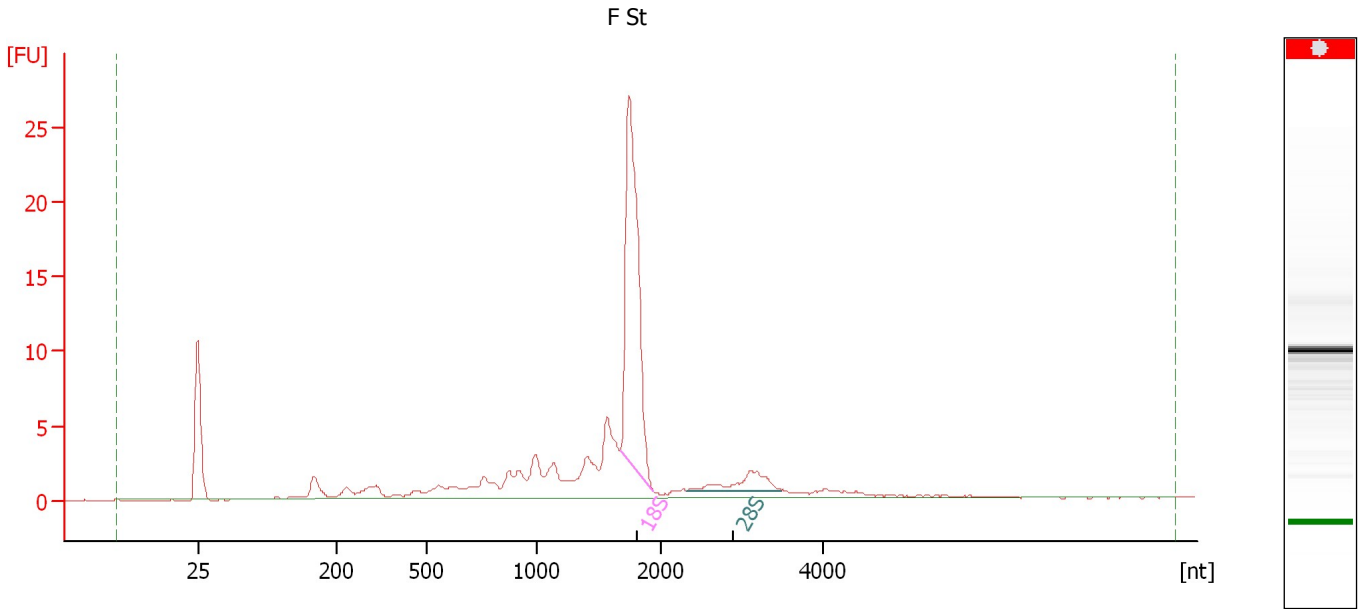
Fragment table for sample 9 : MAB St

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	1,956	128.9	35.7
28S	2,103	3,684	17.7	4.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : F St

RNA Area:	106.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	118 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN N/A

Fragment table for sample 10 : F St

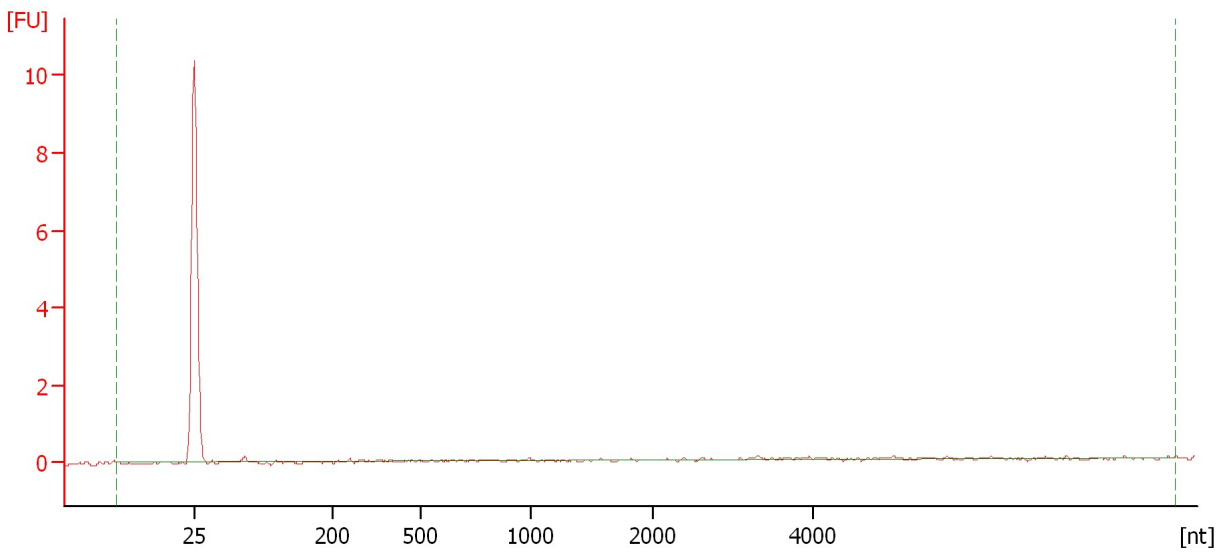
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,669	1,936	37.3	35.1
28S	2,326	3,495	4.2	3.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

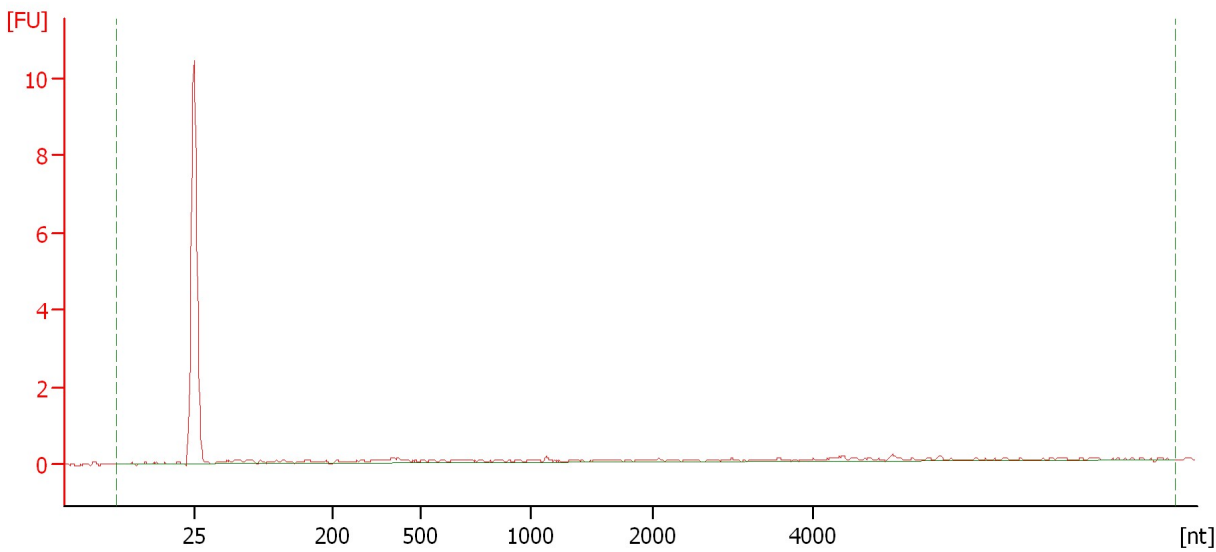
RNA Area:	0.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	0 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Electropherogram Summary Continued ...

Sample 12



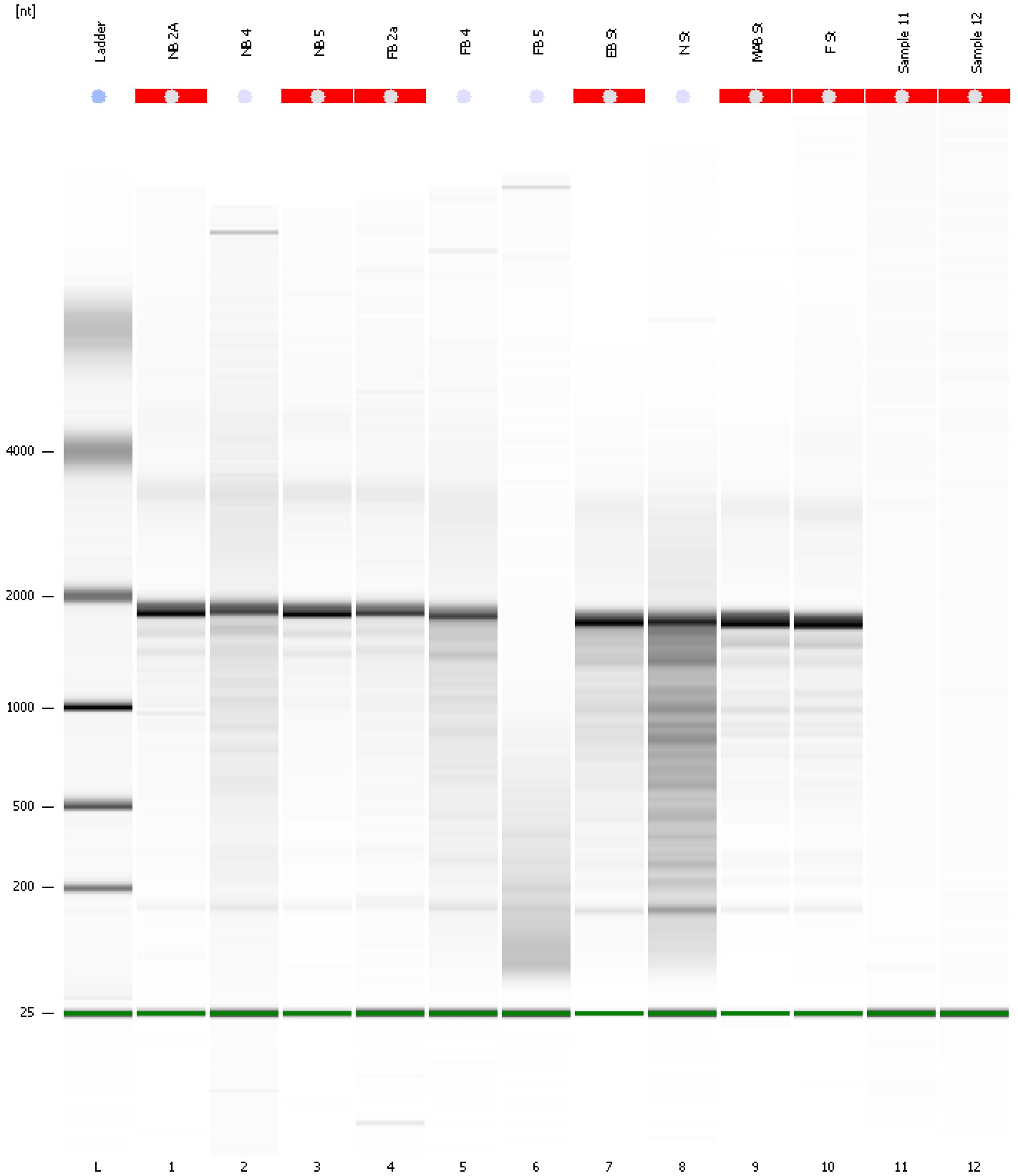
Overall Results for sample 12 : Sample 12

RNA Area:	3.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	4 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\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
Modified: 3/12/2012 12:28:29 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad

Created: 3/12/2012 11:43:18 AM
 Modified: 3/12/2012 12:28:29 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		3/12/2012 12:07:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-12\2012-03-12_002.xad)		Instrument	Run		3/12/2012 11:43:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/12/2012 11:43:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/12/2012 11:43:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/12/2012 11:43:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/12/2012 11:43:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/12/2012 11:43:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/12/2012 11:43:24 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1