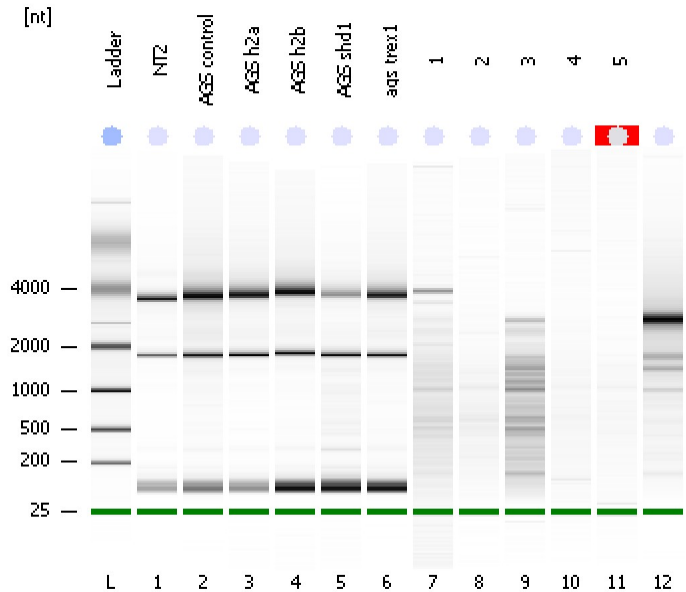


Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 AM

Electrophoresis File Run Summary



Instrument Information:

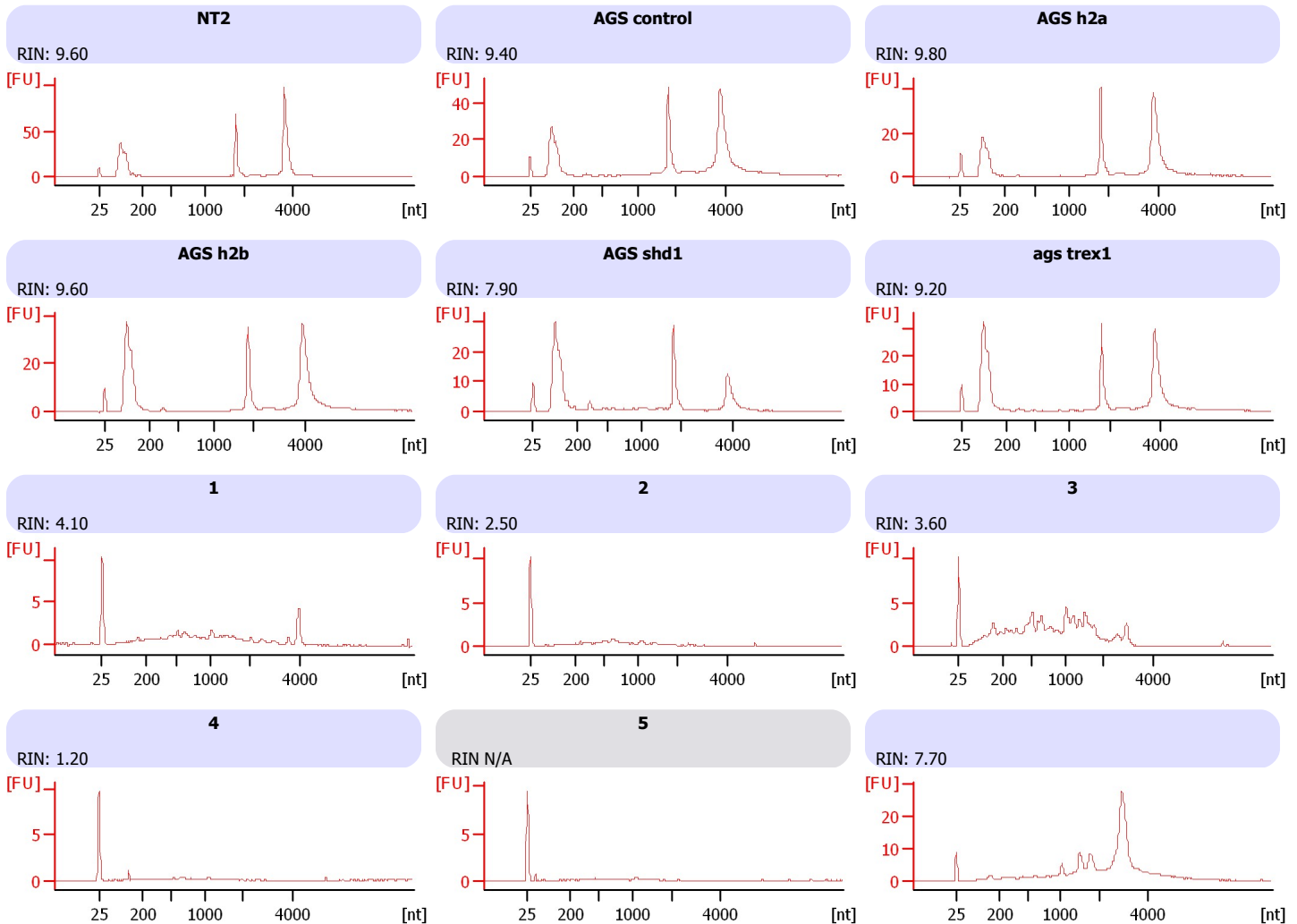
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
NT2		✓	RIN: 9.60	
AGS control		✓	RIN: 9.40	
AGS h2a		✓	RIN: 9.80	
AGS h2b		✓	RIN: 9.60	
AGS shd1		✓	RIN: 7.90	
ags trex1		✓	RIN: 9.20	
1		✓	RIN: 4.10	
2		✓	RIN: 2.50	
3		✓	RIN: 3.60	
4		✓	RIN: 1.20	
5		✓	RIN N/A	
		✓	RIN: 7.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 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

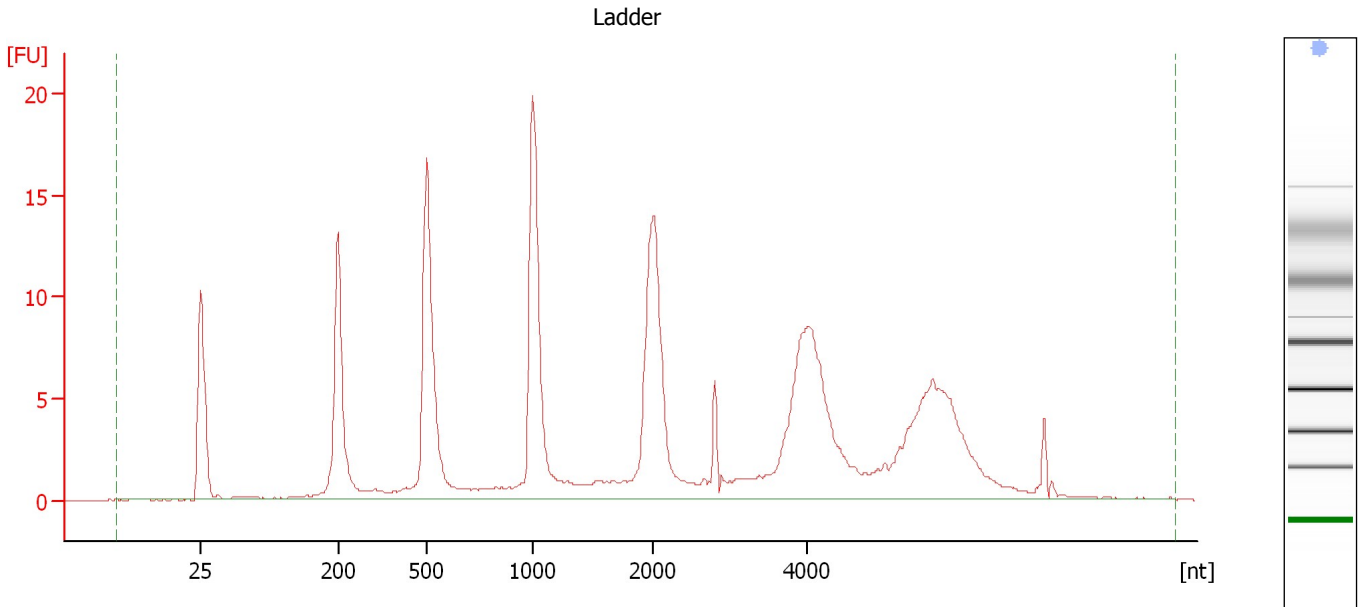
Ladder

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\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary



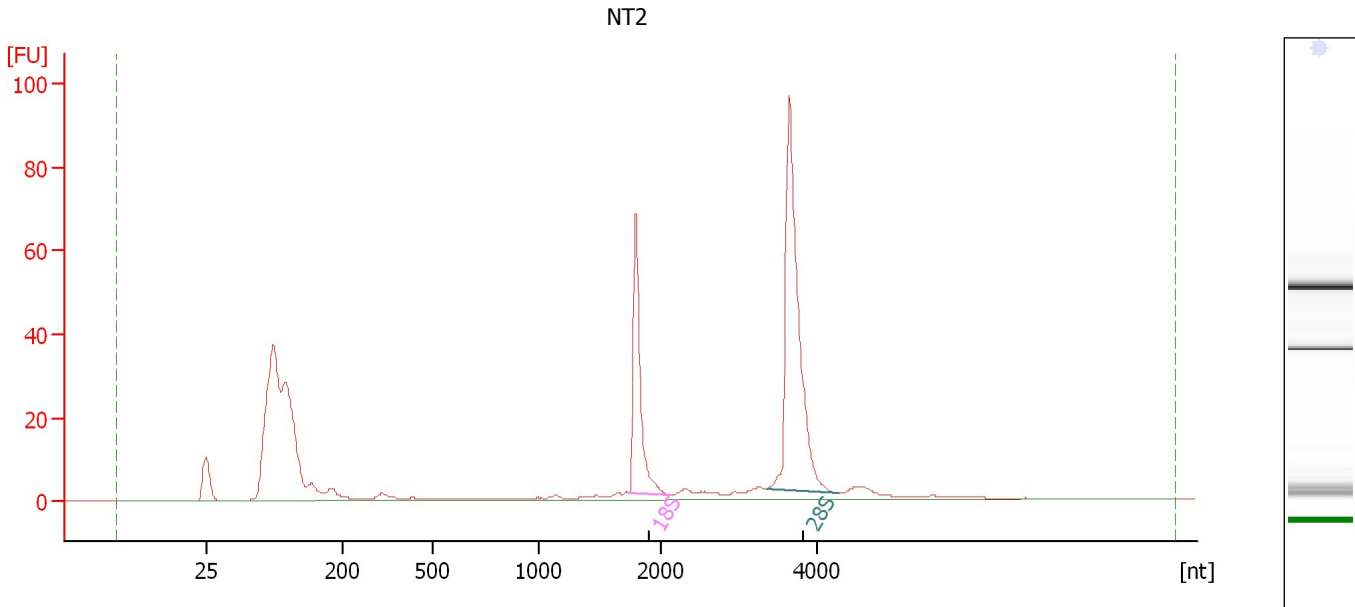
Overall Results for Ladder

RNA Area:	200.8	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\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : NT2

RNA Area:	443.2	RNA Integrity Number (RIN):	9.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	331 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.60

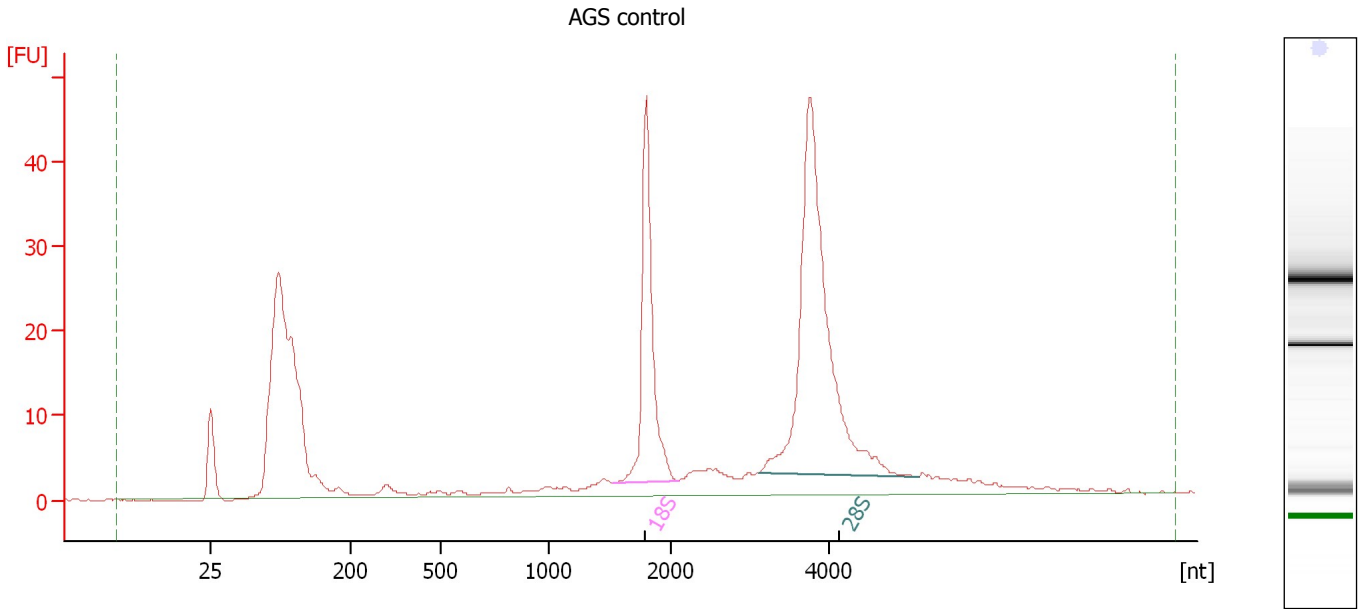
Fragment table for sample 1 : NT2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,731	2,115	61.0	13.8
28S	3,368	4,277	122.8	27.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AGS control

RNA Area:	411.9	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	308 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.40

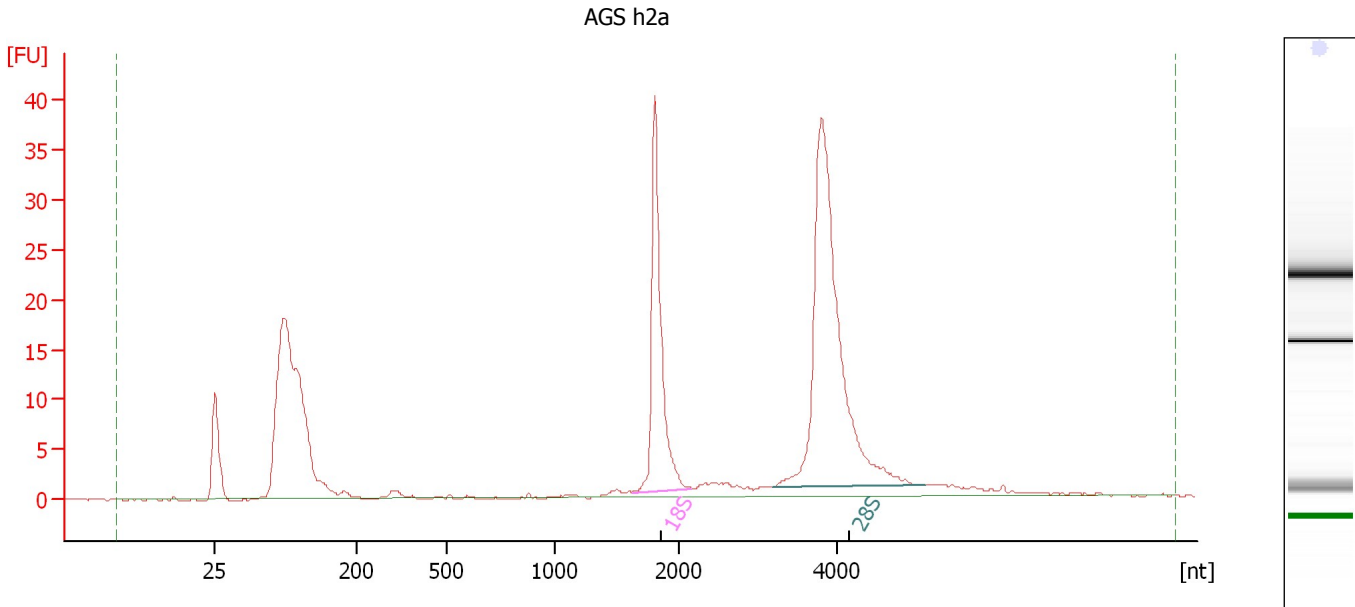
Fragment table for sample 2 : AGS control

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,530	2,080	54.8	13.3
28S	3,115	5,146	121.1	29.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AGS h2a

RNA Area:	258.9	RNA Integrity Number (RIN):	9.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	193 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.80

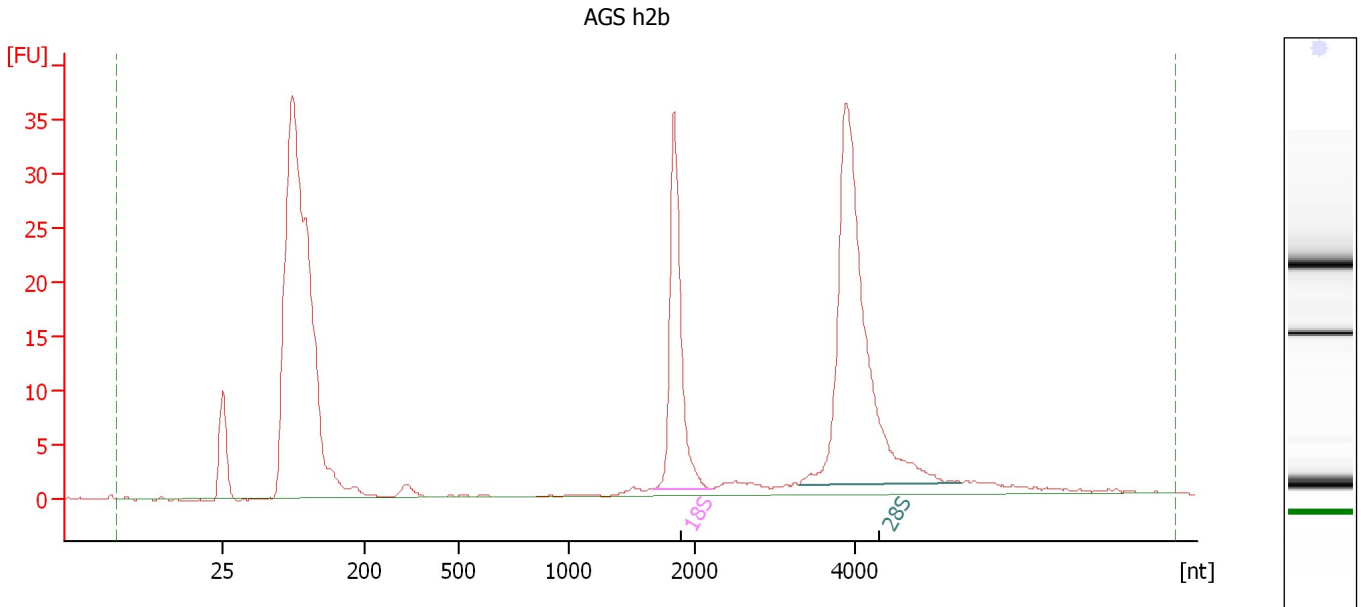
Fragment table for sample 3 : AGS h2a

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	2,152	44.0	17.0
28S	3,165	5,098	92.8	35.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AGS h2b

RNA Area:	350.8	RNA Integrity Number (RIN):	9.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	262 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.60

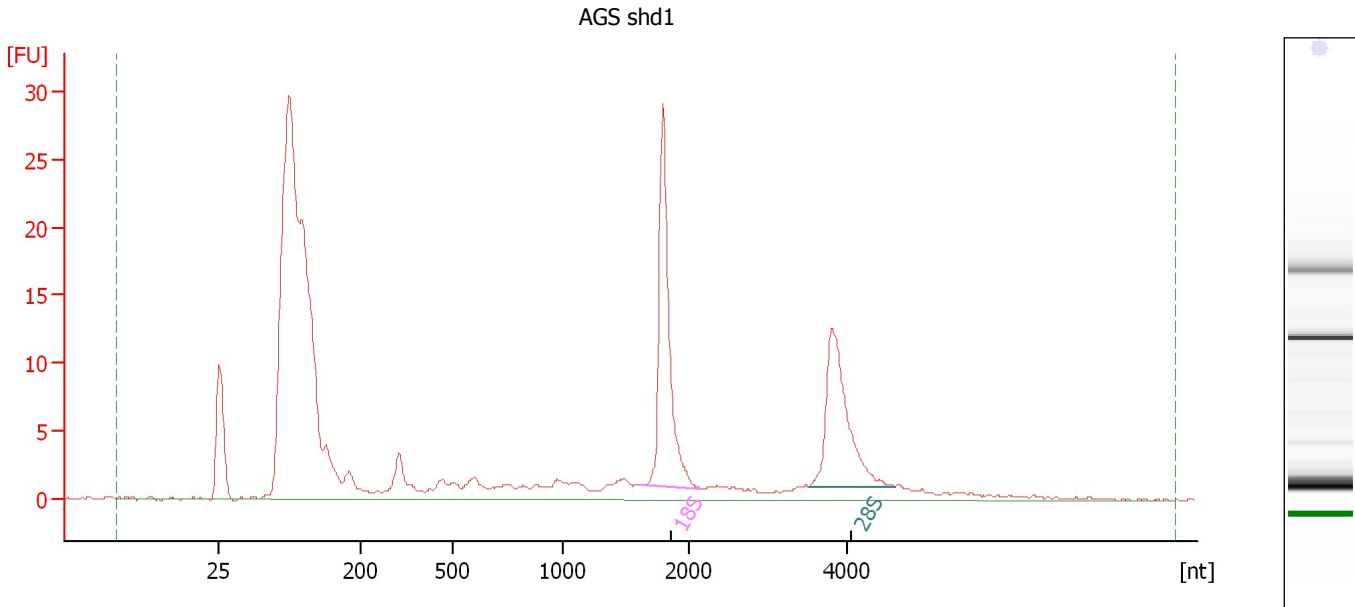
Fragment table for sample 4 : AGS h2b

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,212	44.1	12.6
28S	3,304	5,329	93.2	26.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AGS shd1

RNA Area:	271.2	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	203 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 7.90

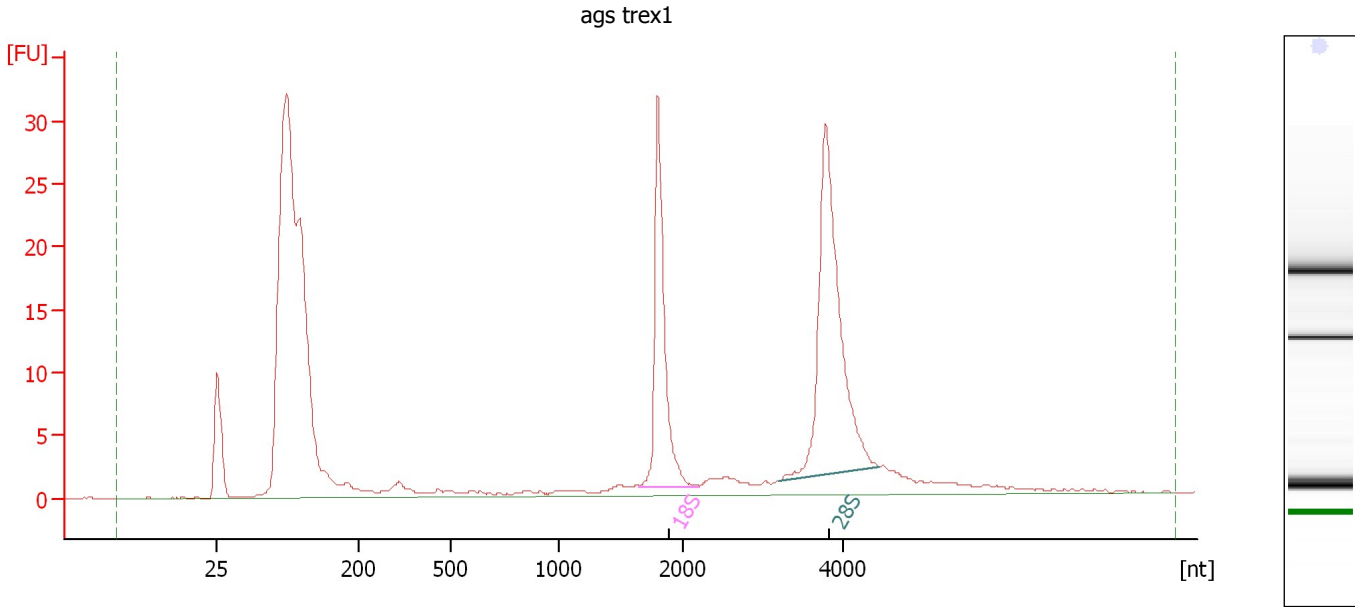
Fragment table for sample 5 : AGS shd1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	2,156	32.7	12.1
28S	3,510	4,595	25.0	9.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ags trex1

RNA Area:	297.9	RNA Integrity Number (RIN):	9.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	223 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.20

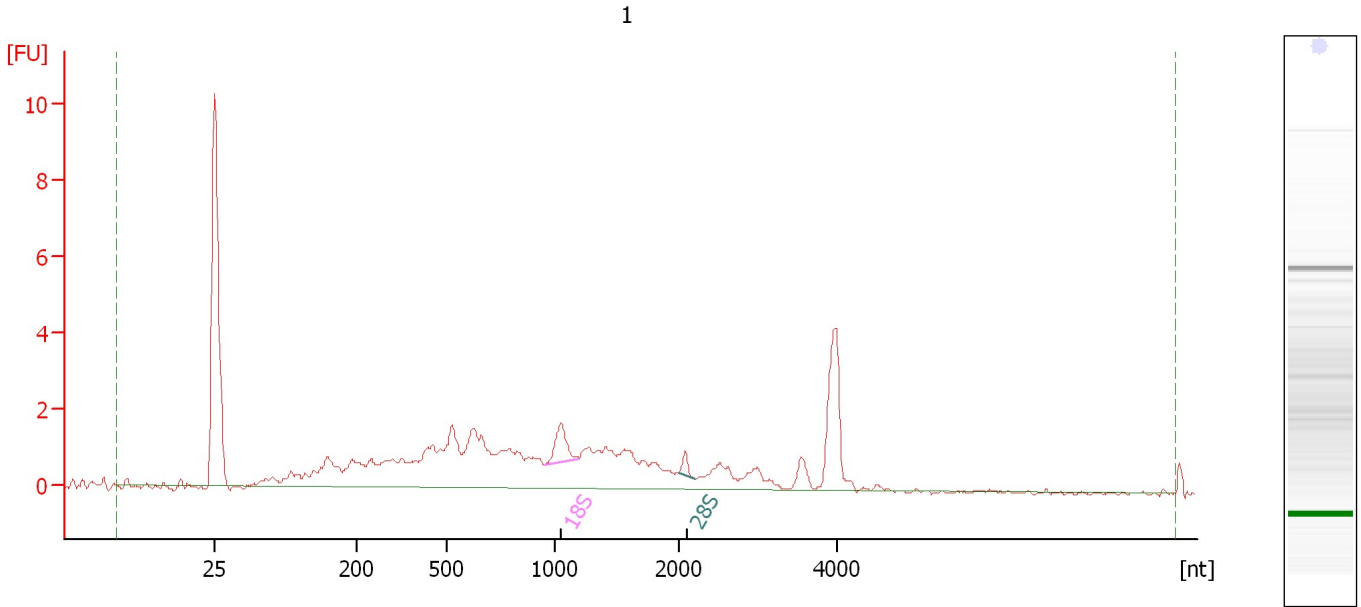
Fragment table for sample 6 : ags trex1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	2,194	34.0	11.4
28S	3,204	4,455	58.4	19.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 1

RNA Area:	52.5	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	39 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 4.10

Fragment table for sample 7 : 1

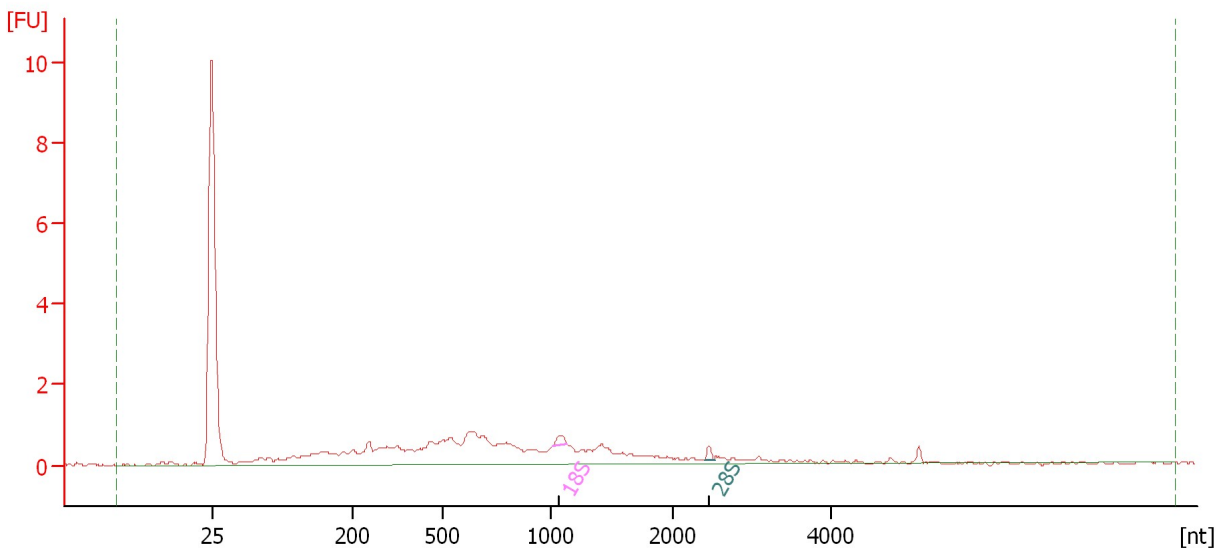
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	947	1,192	1.5	2.9
28S	1,985	2,179	0.4	0.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...

2



Overall Results for sample 8 : 2

RNA Area: 23.1 RNA Integrity Number (RIN): 2.5 (B.02.08)
RNA Concentration: 17 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 2.50

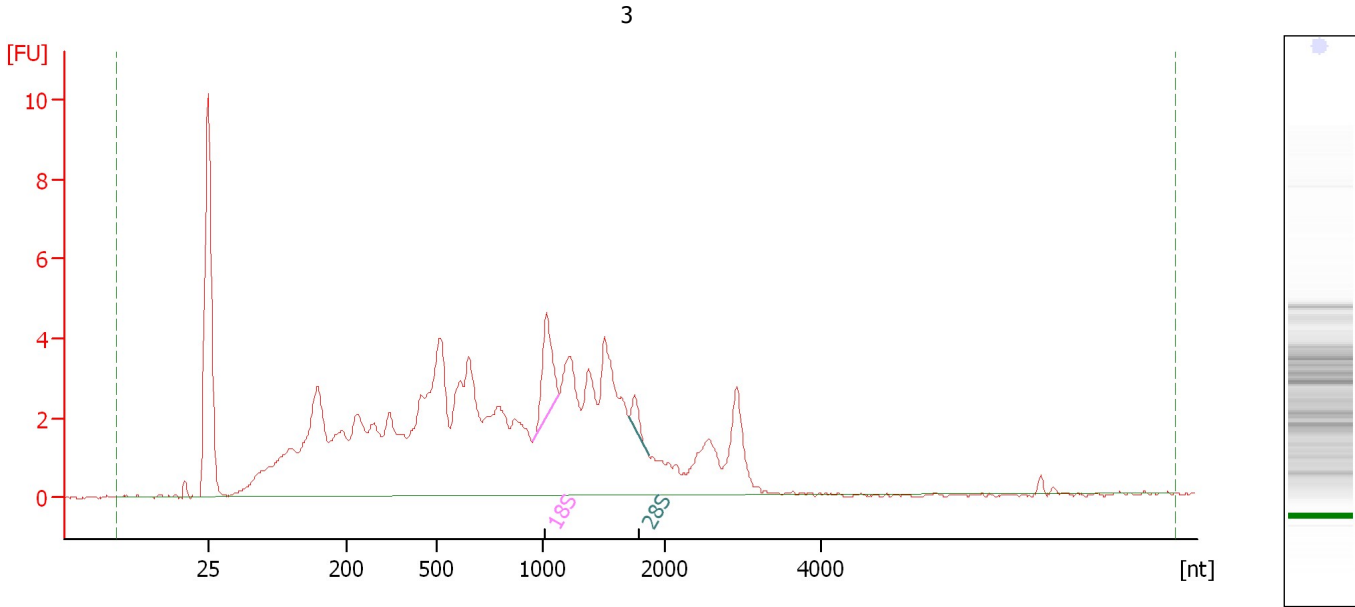
Fragment table for sample 8 : 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,012	1,133	0.2	1.0
28S	2,407	2,516	0.2	0.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 3

RNA Area:	120.5	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	90 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 3.60

Fragment table for sample 9 : 3

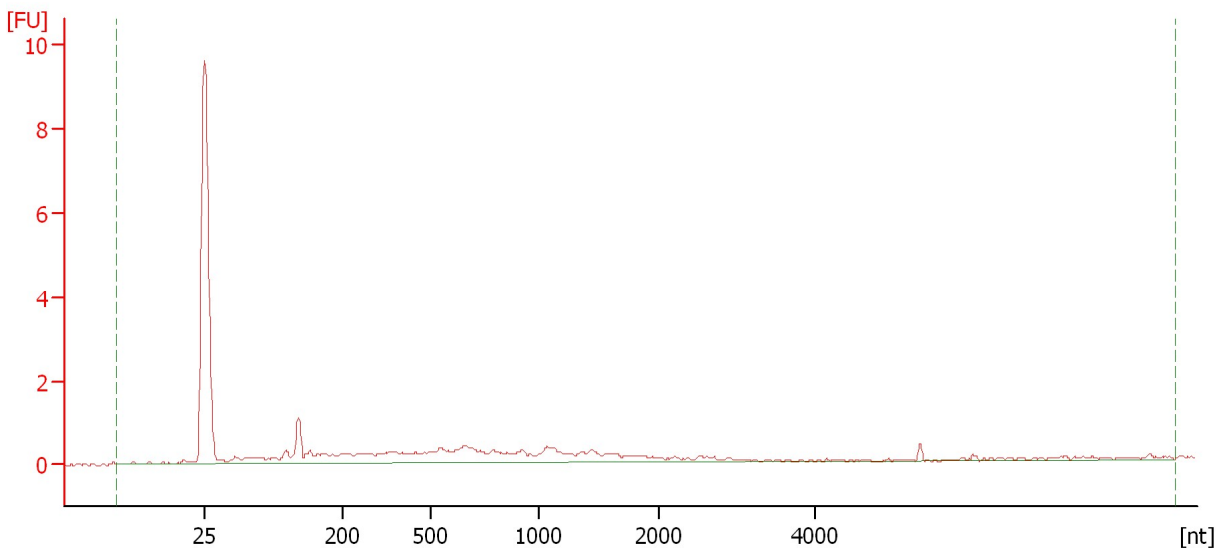
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	955	1,131	3.4	2.8
28S	1,699	1,856	0.8	0.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...

4



Overall Results for sample 10 : 4

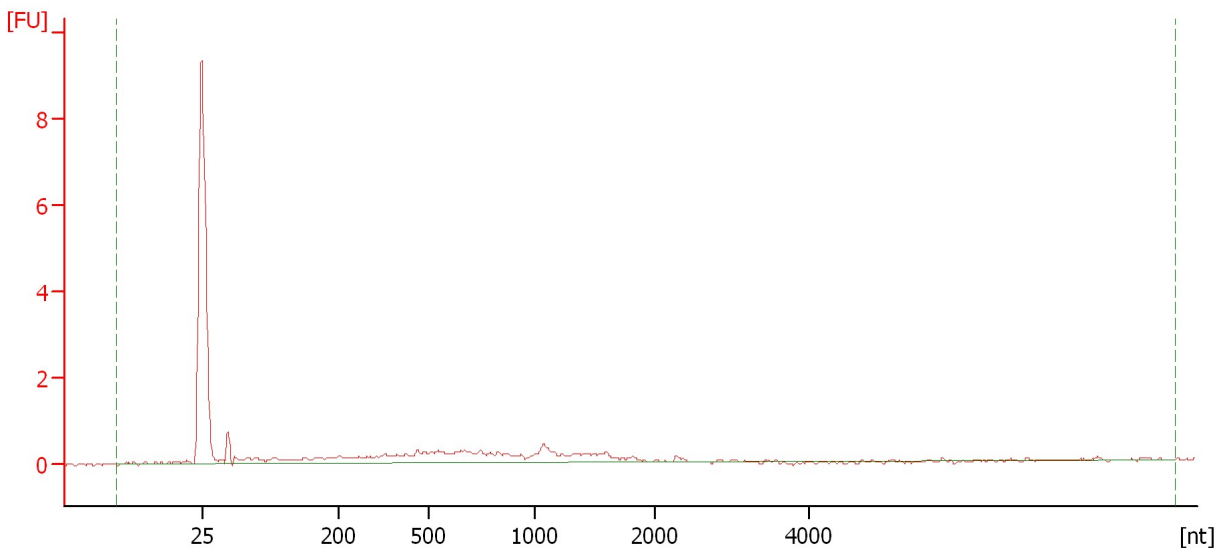
RNA Area:	15.8	RNA Integrity Number (RIN):	1.2 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.20

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...

5



Overall Results for sample 11 : 5

RNA Area: 12.3
RNA Concentration: 9 ng/μl
rRNA Ratio [28s / 18s]: 0.0

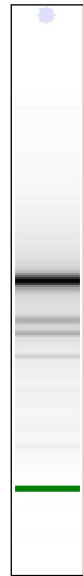
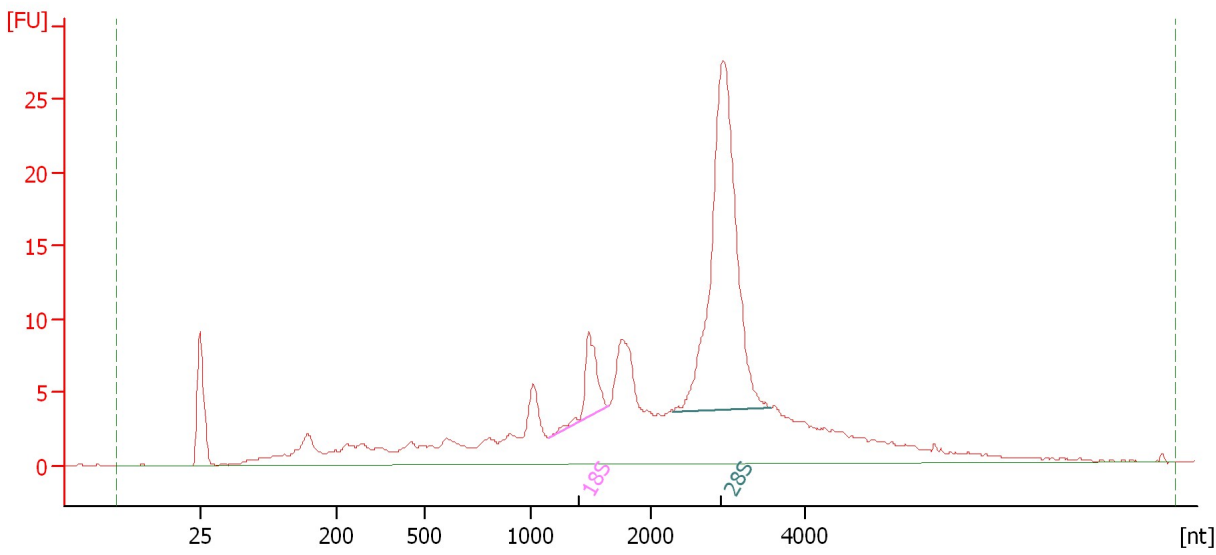
RNA Integrity Number (RIN): N/A (B.02.08, Anomaly Threshold(s) manually adapted)

Result Flagging Color:
Result Flagging Label: RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area: 257.0 RNA Integrity Number (RIN): 7.7 (B.02.08,
RNA Concentration: 192 ng/μl Anomaly Threshold(s)
rRNA Ratio [28s / 18s]: 7.5 manually adapted)
Result Flagging Color:
Result Flagging Label: RIN: 7.70

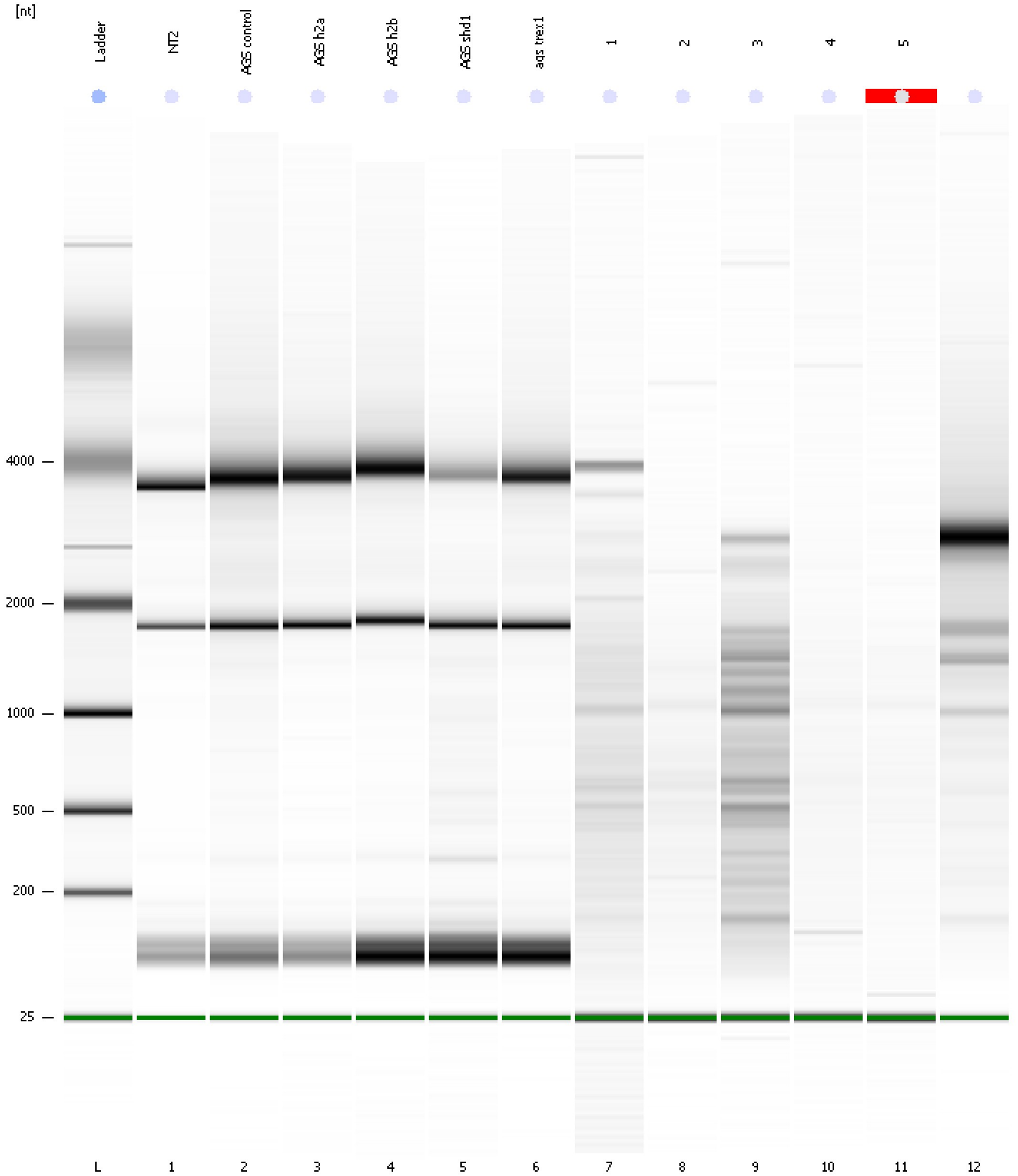
Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,156	1,644	8.9	3.5
28S	2,290	3,557	67.1	26.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
Modified: 7/12/2013 11:28:37 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad

Created: 7/12/2013 11:00:34 AM
 Modified: 7/12/2013 11:28:37 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		7/12/2013 11:24:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-12\2013-07-12_001.xad)		Instrument	Run		7/12/2013 11:00:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/12/2013 11:00:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/12/2013 11:00:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/12/2013 11:00:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/12/2013 11:00:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/12/2013 11:00:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/12/2013 11:00:39 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1