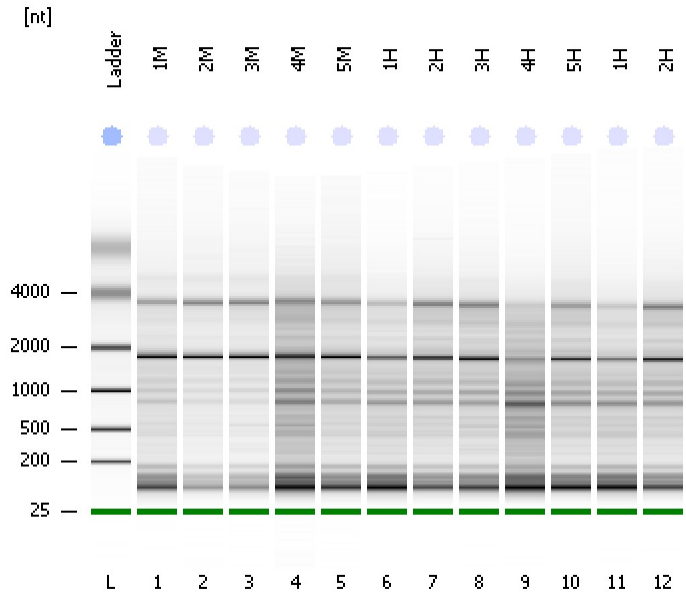


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electrophoresis File Run Summary



Instrument Information:

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

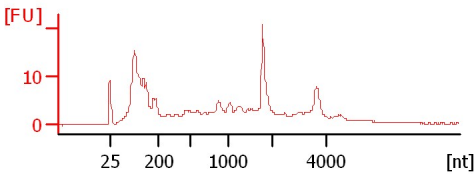
Assay Information:

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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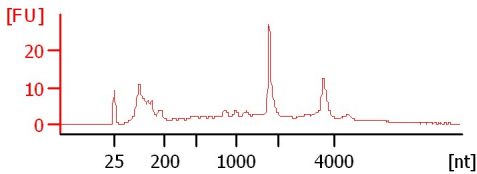
Chip Information:

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

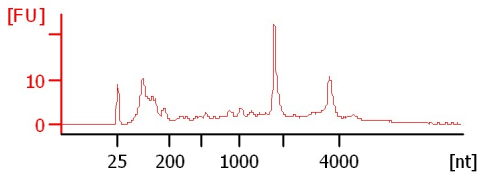
1M RIN: 5.70



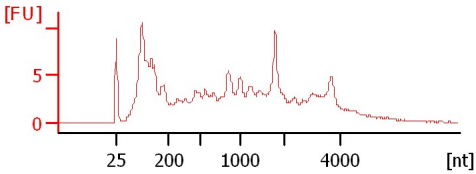
2M RIN: 6.60



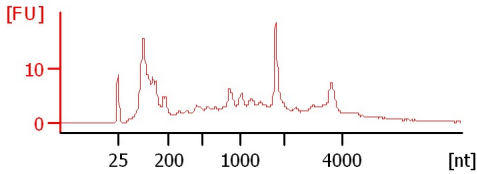
3M RIN: 6.70



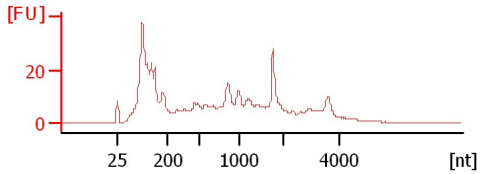
4M RIN: 4.10



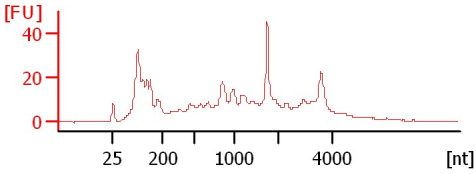
5M RIN: 5.30



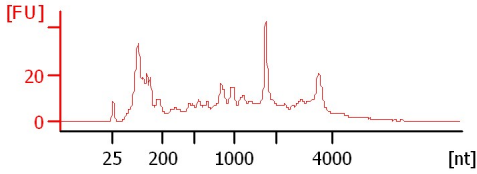
1H RIN: 4.10



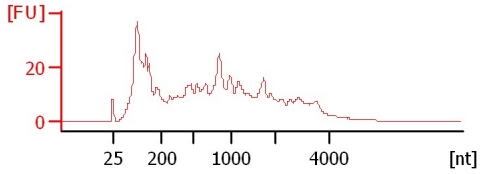
2H RIN: 5



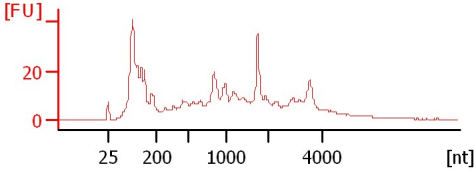
3H RIN: 5.10



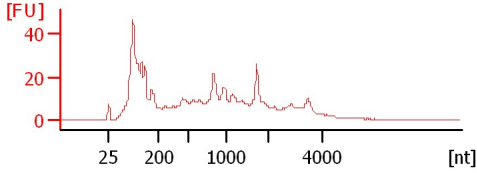
4H RIN: 2.60



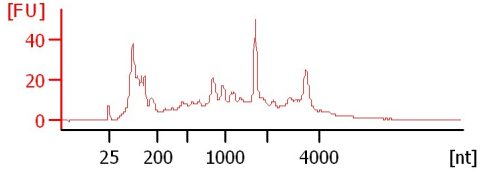
5H RIN: 3.90



1H RIN: 3.40



2H RIN: 5



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
 Modified: 3/6/2013 10:30:53 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1M		✓	RIN: 5.70	
2M		✓	RIN: 6.60	
3M		✓	RIN: 6.70	
4M		✓	RIN: 4.10	
5M		✓	RIN: 5.30	
1H		✓	RIN: 4.10	
2H		✓	RIN:5	
3H		✓	RIN: 5.10	
4H		✓	RIN: 2.60	
5H		✓	RIN: 3.90	
1H		✓	RIN: 3.40	
2H		✓	RIN:5	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 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/ 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

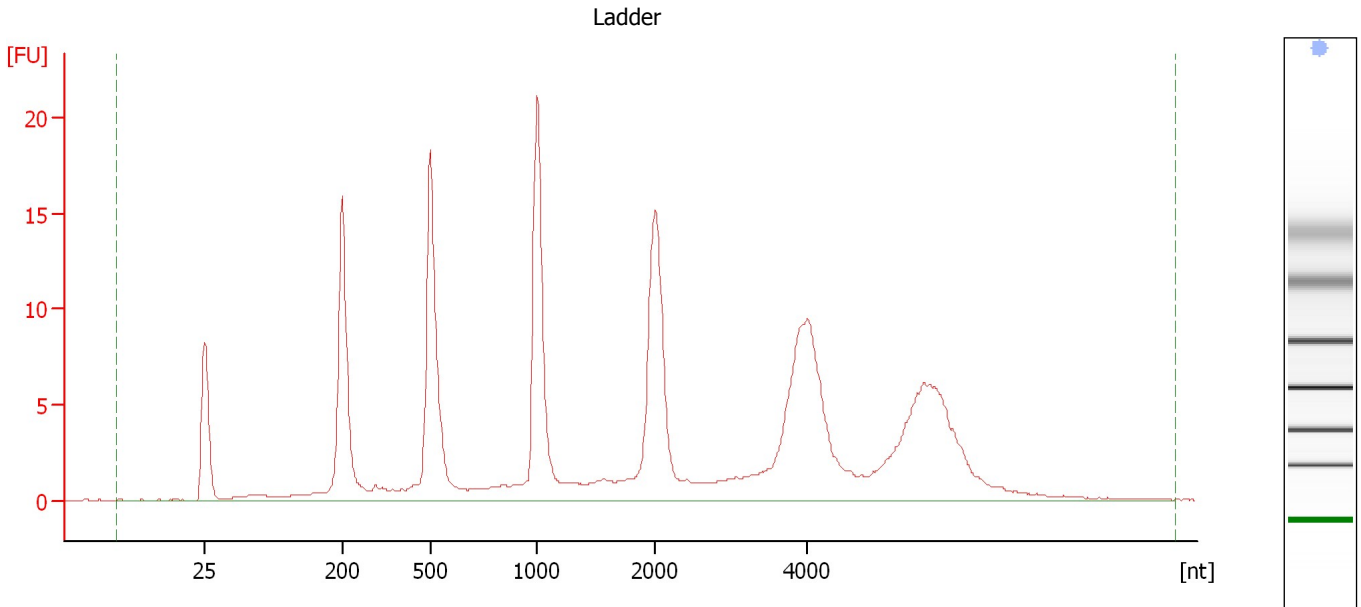
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary



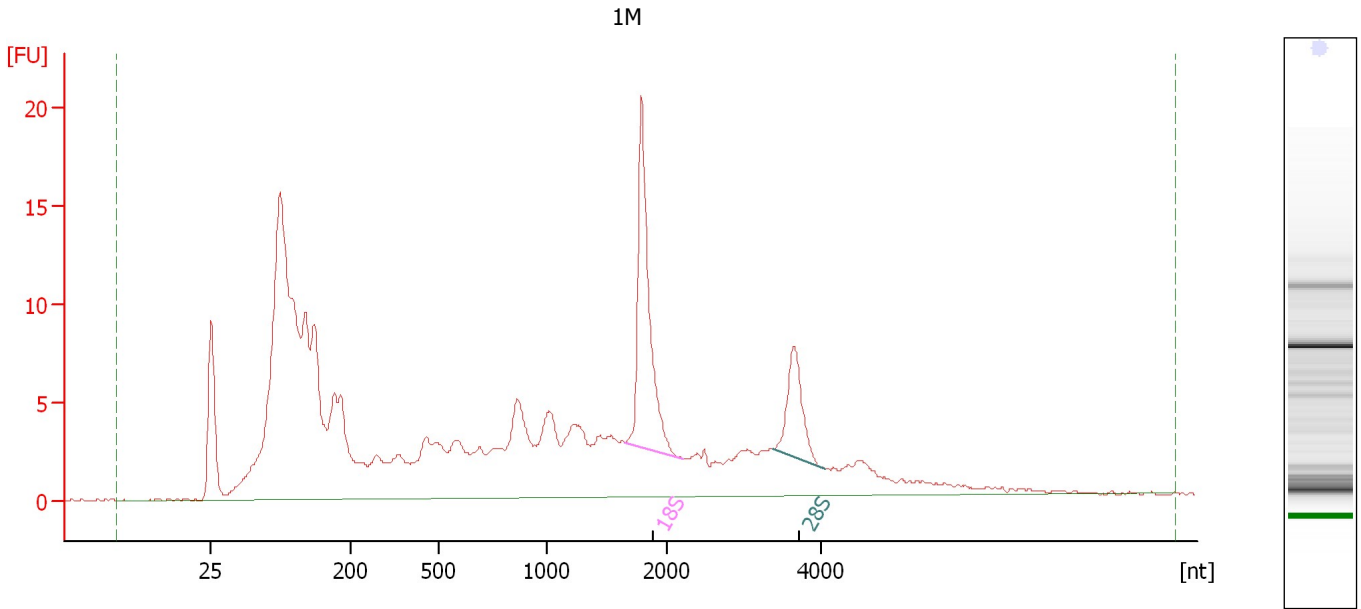
Overall Results for Ladder

RNA Area:	218.5	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\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1M

RNA Area: 294.8 RNA Integrity Number (RIN): 5.7 (B.02.08)
RNA Concentration: 202 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 5.70

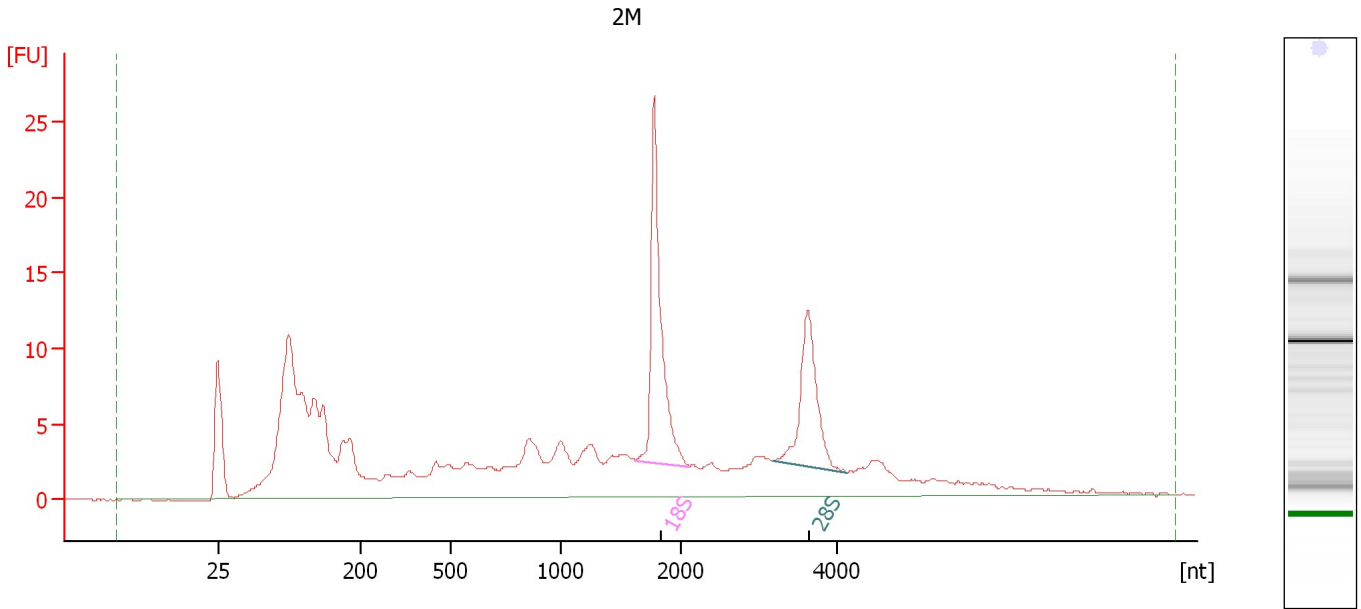
Fragment table for sample 1 : 1M

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	2,189	23.4	7.9
28S	3,357	4,039	9.0	3.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 2M

RNA Area: 261.7 RNA Integrity Number (RIN): 6.6 (B.02.08)
RNA Concentration: 180 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 6.60

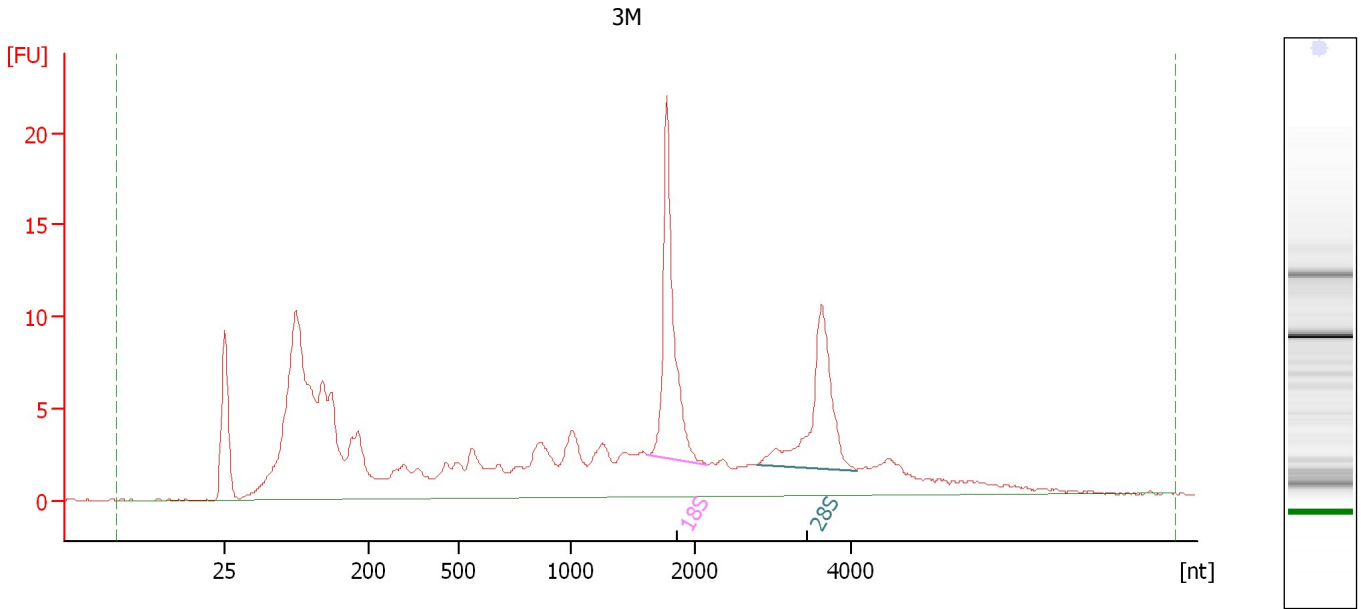
Fragment table for sample 2 : 2M

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	2,101	28.4	10.8
28S	3,156	4,116	17.8	6.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 3M

RNA Area: 236.0 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 162 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 6.70

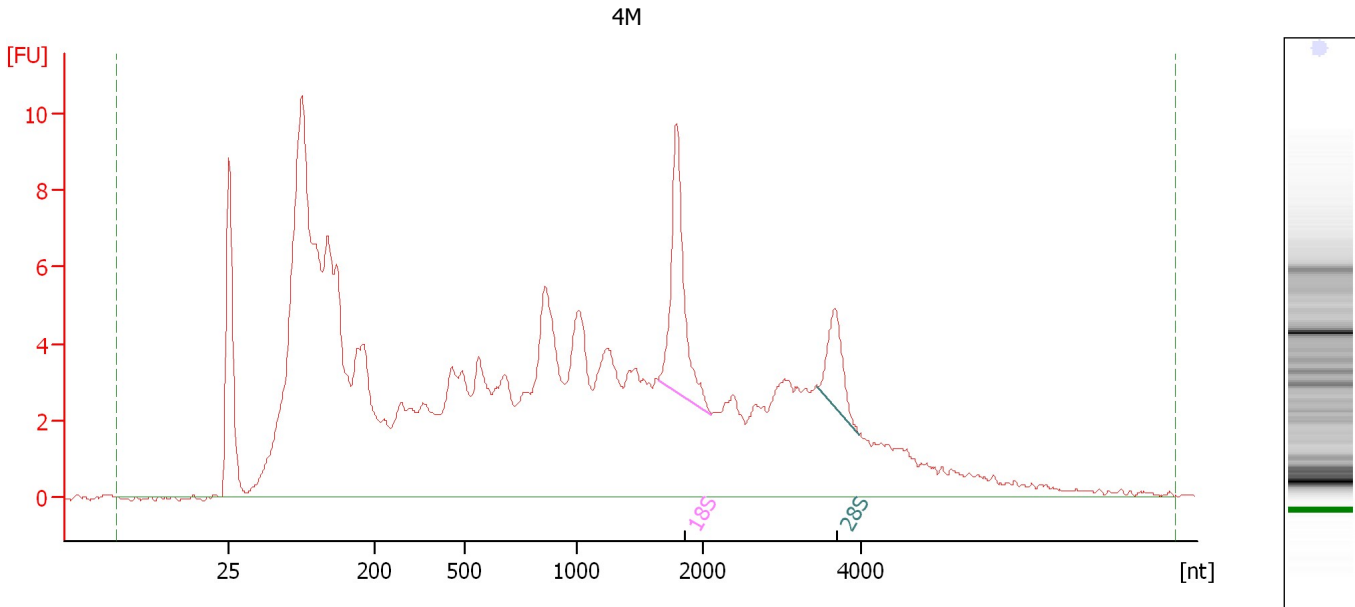
Fragment table for sample 3 : 3M

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	2,162	23.8	10.1
28S	2,799	4,058	18.2	7.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
 Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 4M

RNA Area:	264.9	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	182 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 4.10

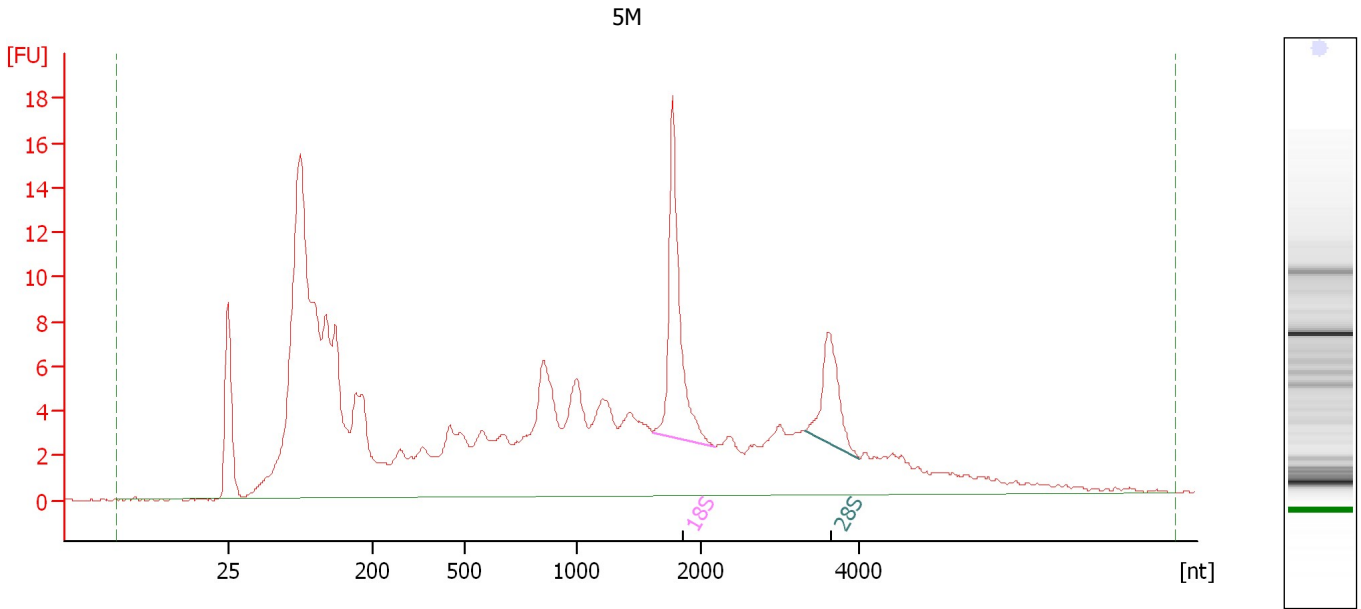
Fragment table for sample 4 : 4M

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	2,113	10.2	3.8
28S	3,456	3,966	3.8	1.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
 Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 5M

RNA Area:	297.1	RNA Integrity Number (RIN):	5.3 (B.02.08)
RNA Concentration:	204 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 5.30

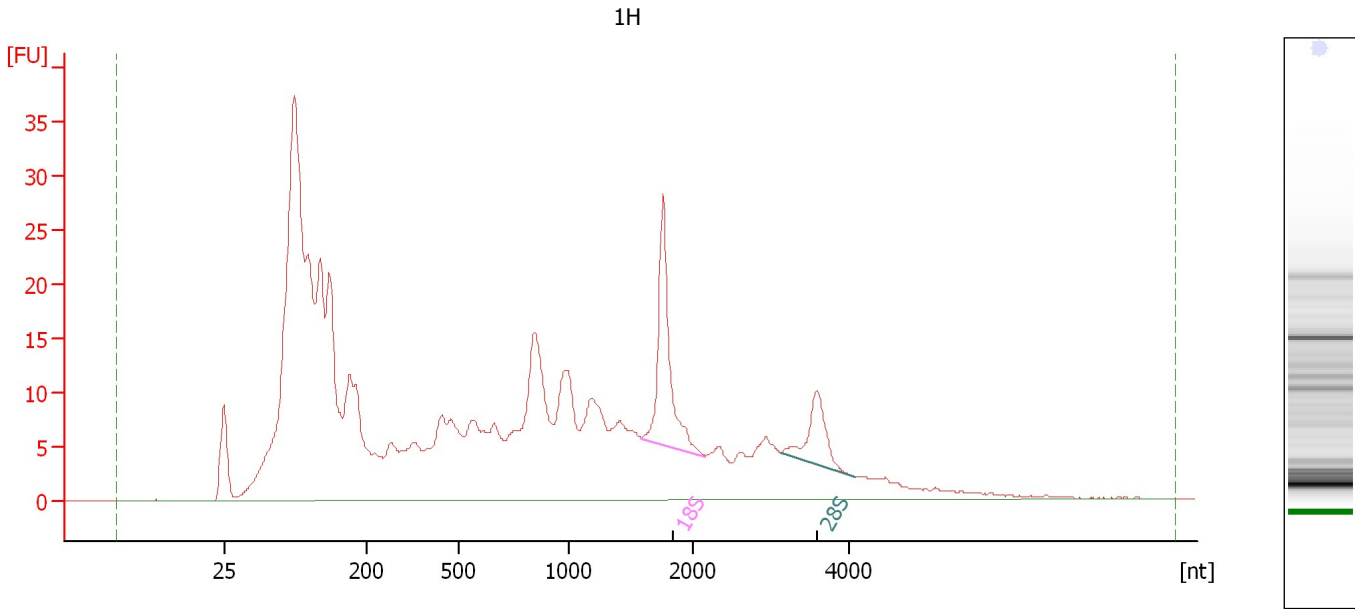
Fragment table for sample 5 : 5M

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	2,192	18.6	6.3
28S	3,309	4,009	8.6	2.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1H

RNA Area: 646.8 RNA Integrity Number (RIN): 4.1 (B.02.08)
RNA Concentration: 444 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 4.10

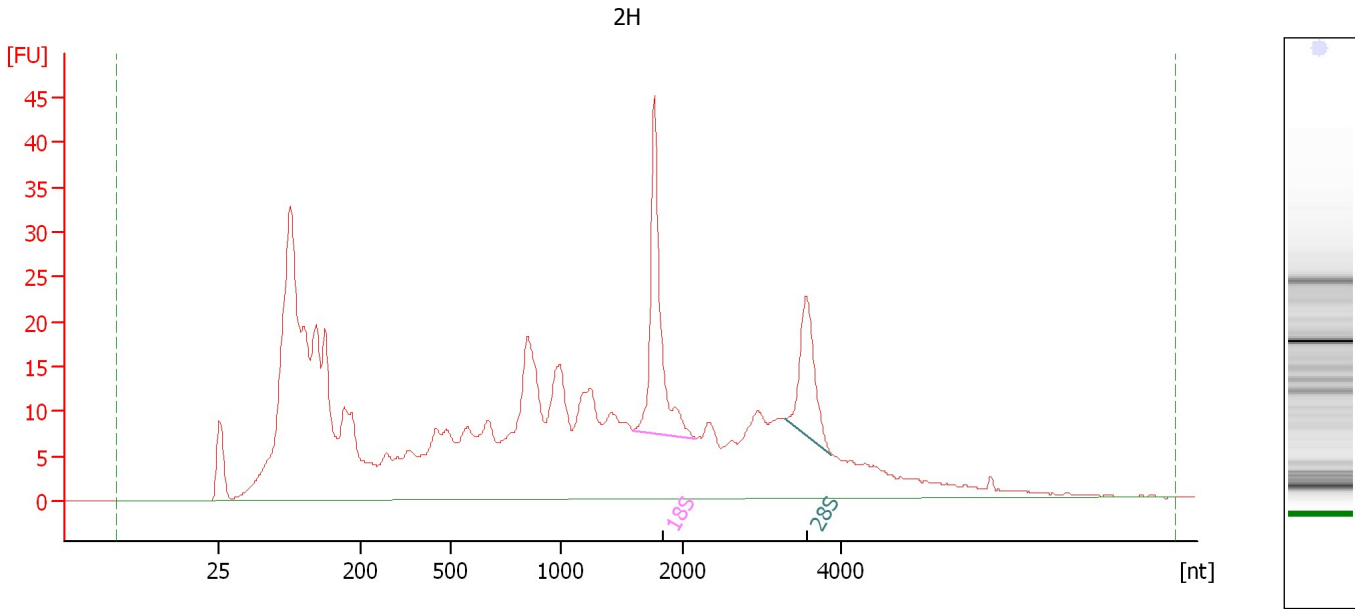
Fragment table for sample 6 : 1H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,591	2,175	28.9	4.5
28S	3,138	4,060	12.2	1.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2H

RNA Area: 753.5 RNA Integrity Number (RIN): 5 (B.02.08)
RNA Concentration: 517 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN:5

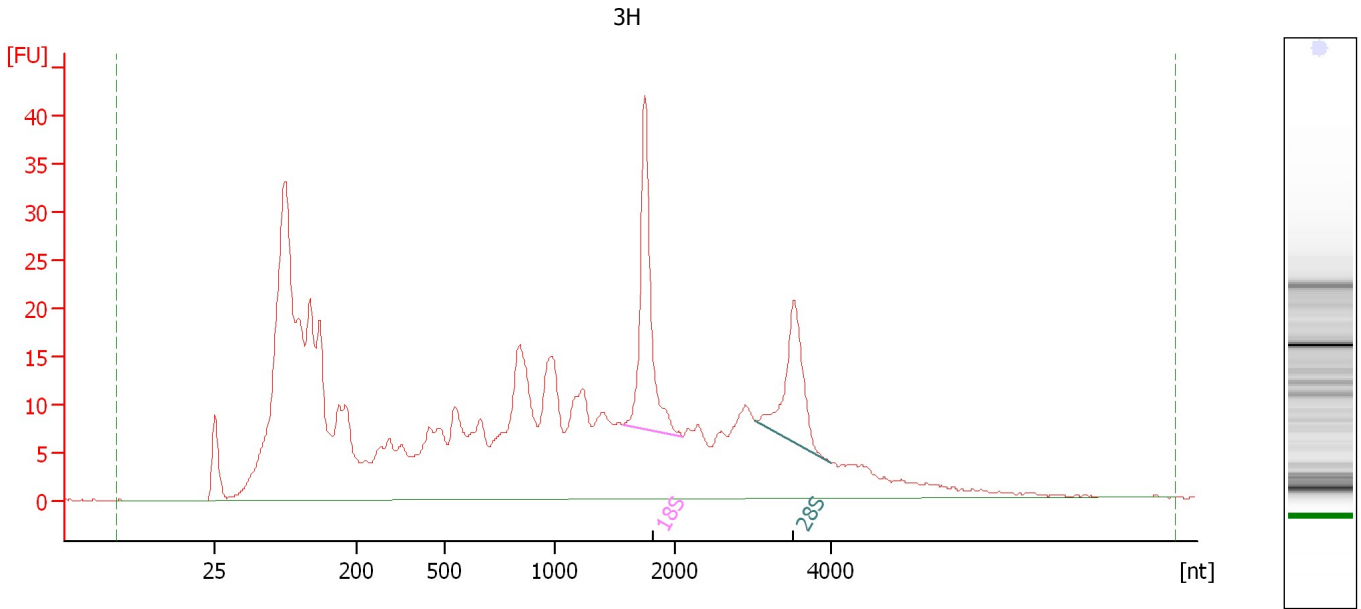
Fragment table for sample 7 : 2H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	2,143	44.2	5.9
28S	3,292	3,894	23.5	3.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
 Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 3H

RNA Area:	735.9	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	505 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 5.10

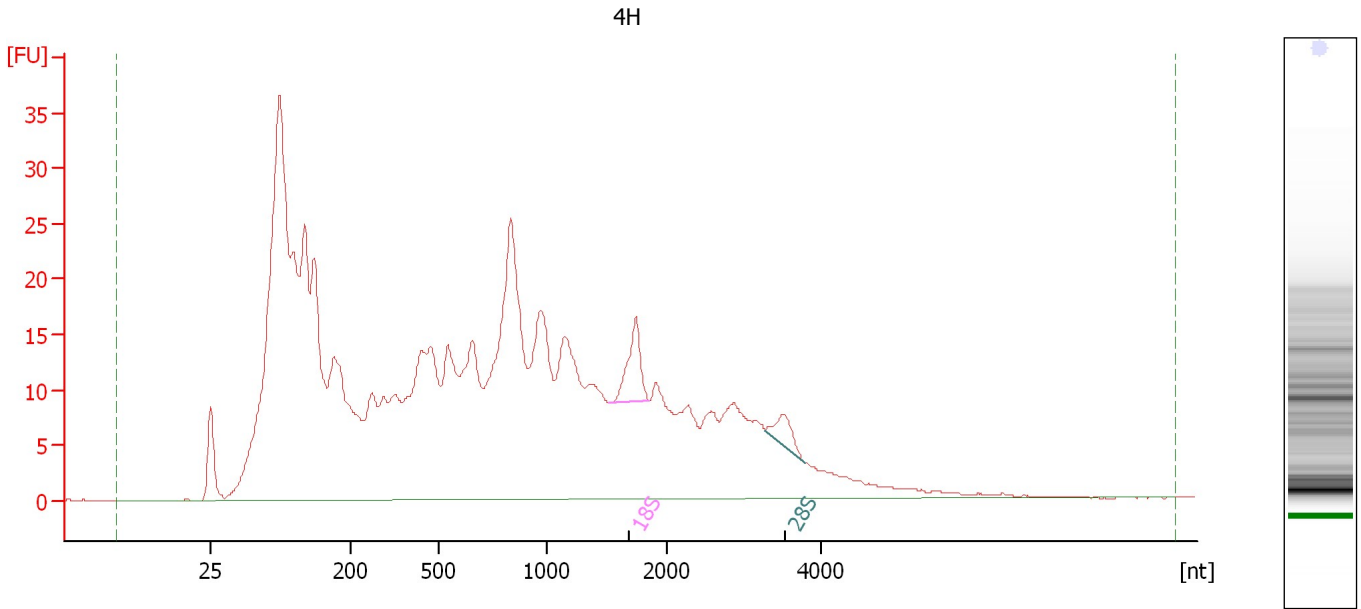
Fragment table for sample 8 : 3H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,568	2,097	41.9	5.7
28S	3,021	4,000	27.4	3.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 4H

RNA Area: 878.9 RNA Integrity Number (RIN): 2.6 (B.02.08)
RNA Concentration: 603 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 2.60

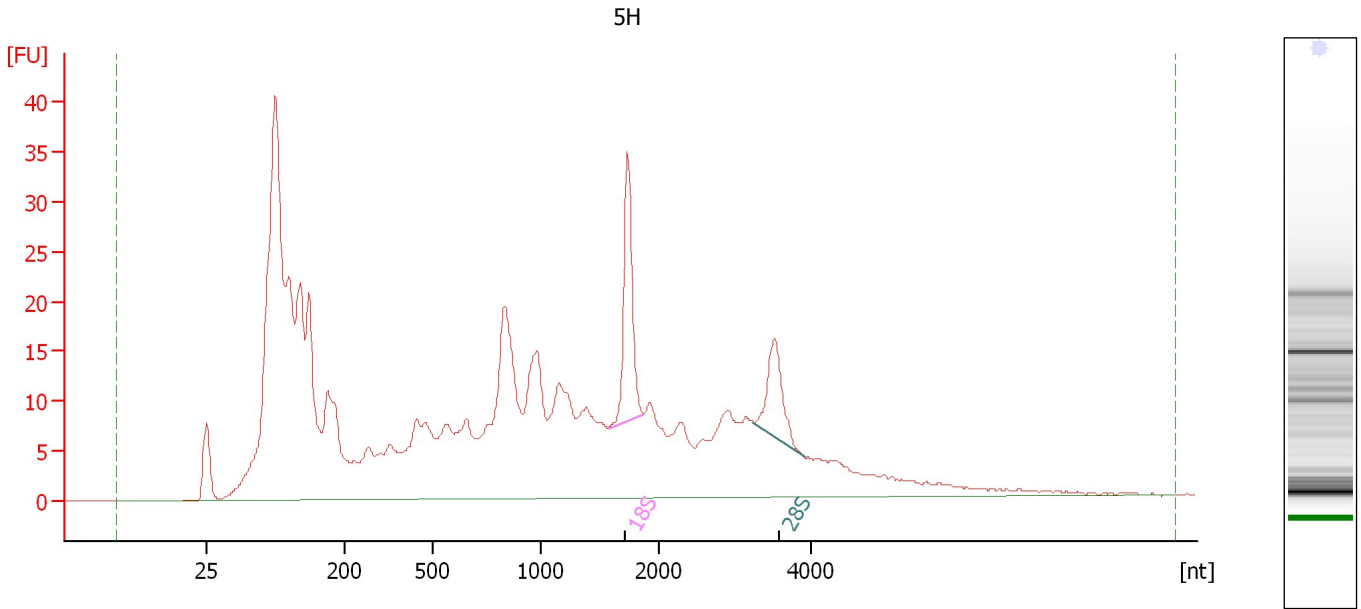
Fragment table for sample 9 : 4H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,516	1,845	11.5	1.3
28S	3,274	3,789	4.9	0.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 5H

RNA Area: 735.2 RNA Integrity Number (RIN): 3.9 (B.02.08)
RNA Concentration: 505 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 3.90

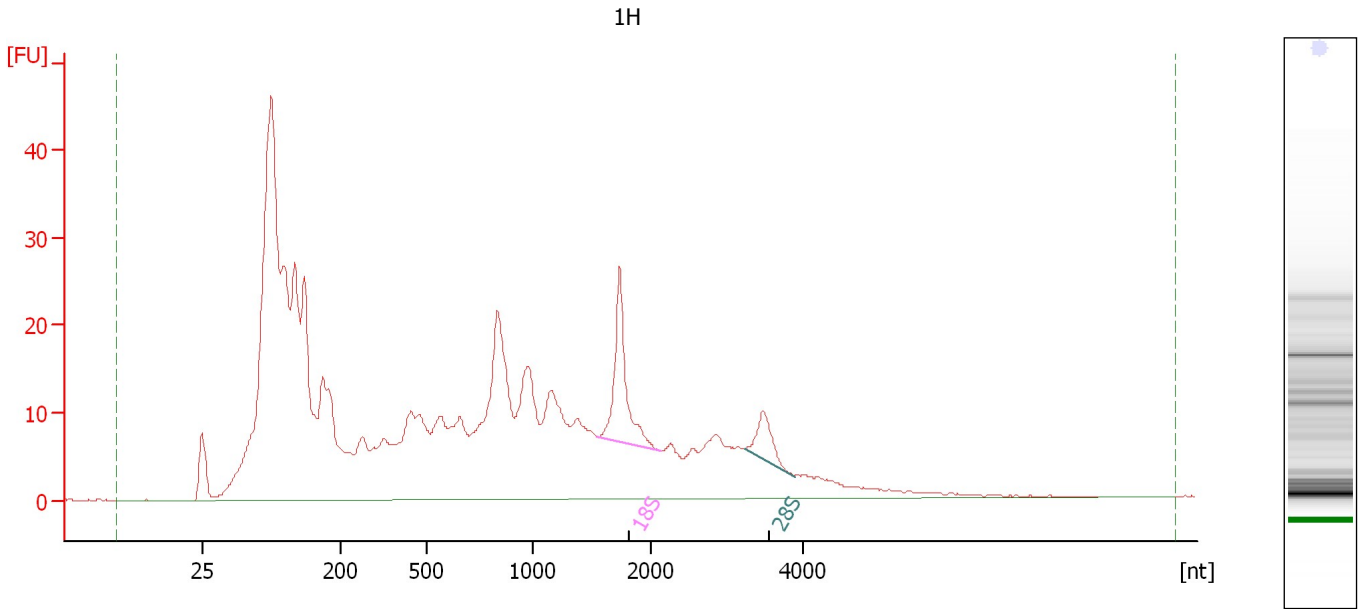
Fragment table for sample 10 : 5H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	1,867	26.8	3.6
28S	3,237	3,896	15.5	2.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1H

RNA Area: 791.8 RNA Integrity Number (RIN): 3.4 (B.02.08)
RNA Concentration: 544 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.3 Result Flagging Label: RIN: 3.40

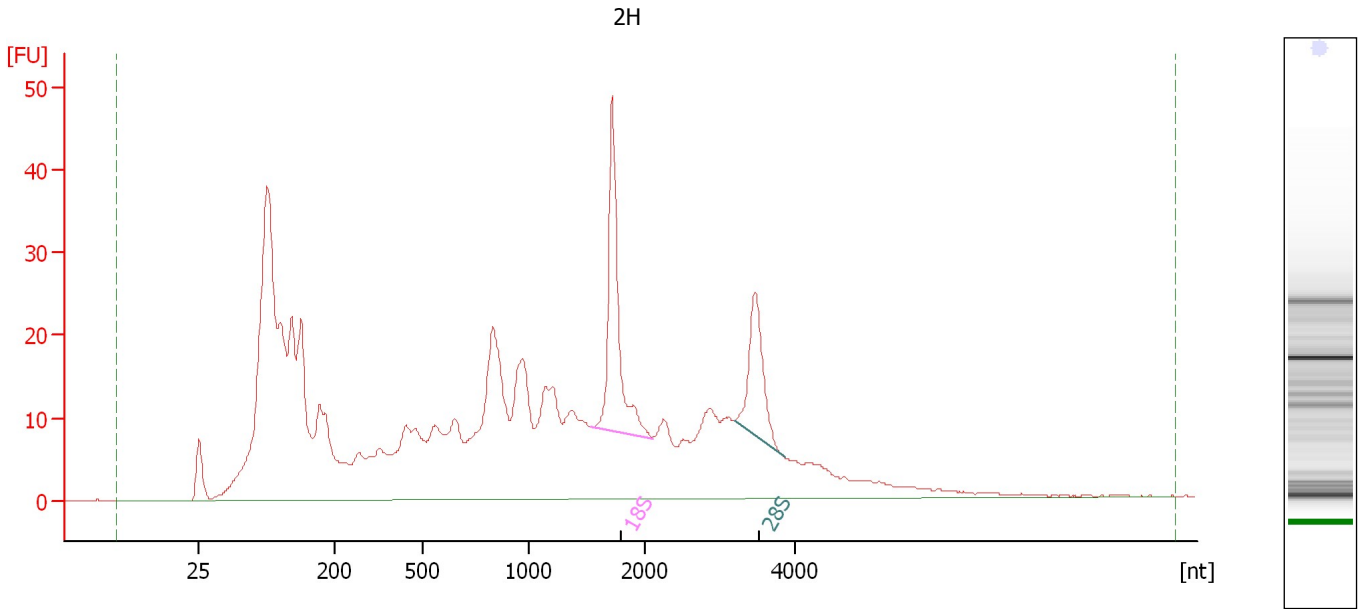
Fragment table for sample 11 : 1H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,545	2,124	27.5	3.5
28S	3,227	3,892	9.1	1.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 2H

RNA Area: 826.8 RNA Integrity Number (RIN): 5 (B.02.08)
RNA Concentration: 568 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN:5

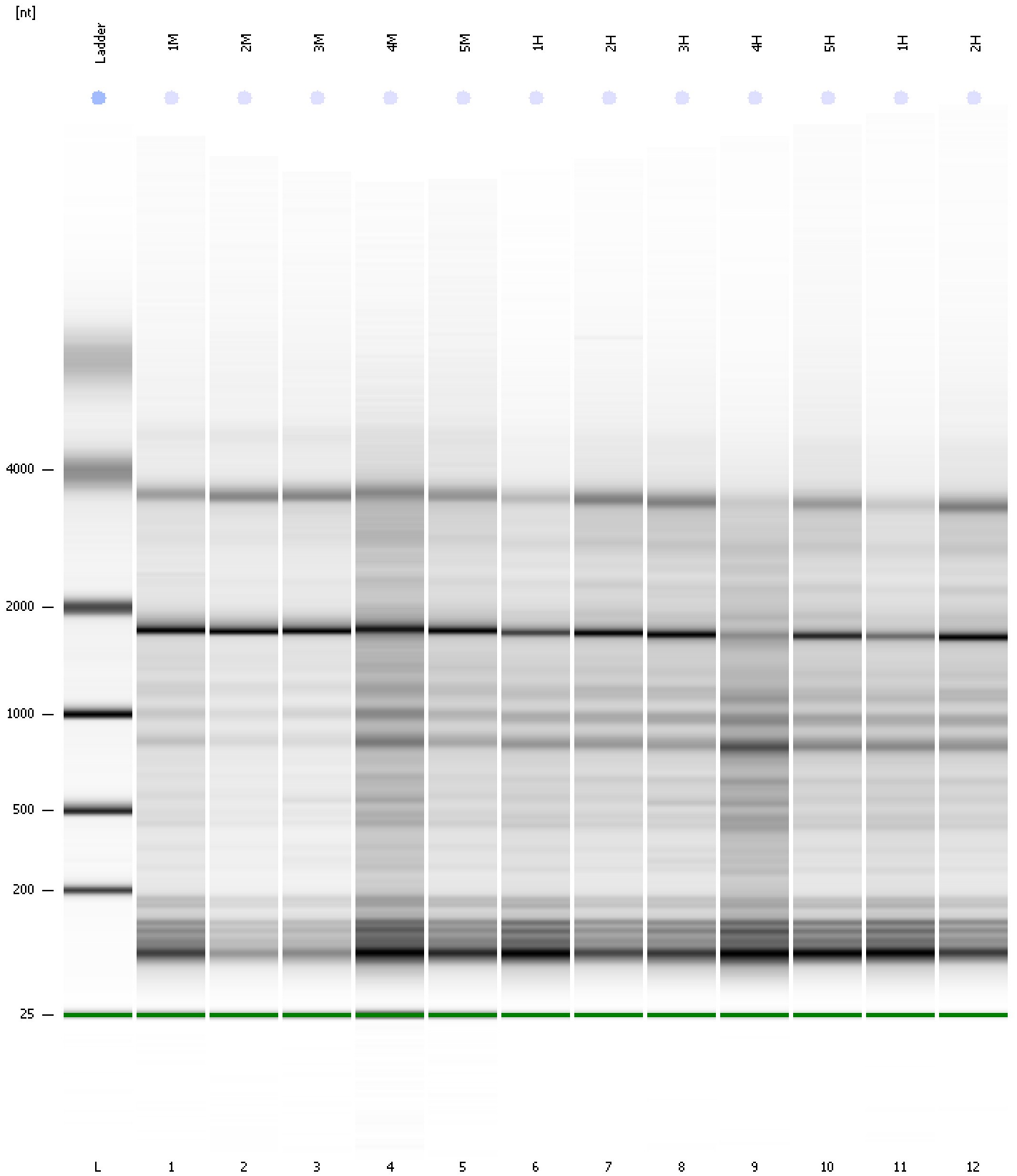
Fragment table for sample 12 : 2H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,539	2,092	47.6	5.8
28S	3,202	3,857	25.8	3.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
Modified: 3/6/2013 10:30:53 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad

Created: 3/6/2013 10:06:58 AM
 Modified: 3/6/2013 10:30:53 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		3/6/2013 10:30:49 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-06\2013-03-06_001.xad)		Instrument	Run		3/6/2013 10:07:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/6/2013 10:07:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/6/2013 10:07:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/6/2013 10:07:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/6/2013 10:07:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/6/2013 10:07:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/6/2013 10:07:04 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1