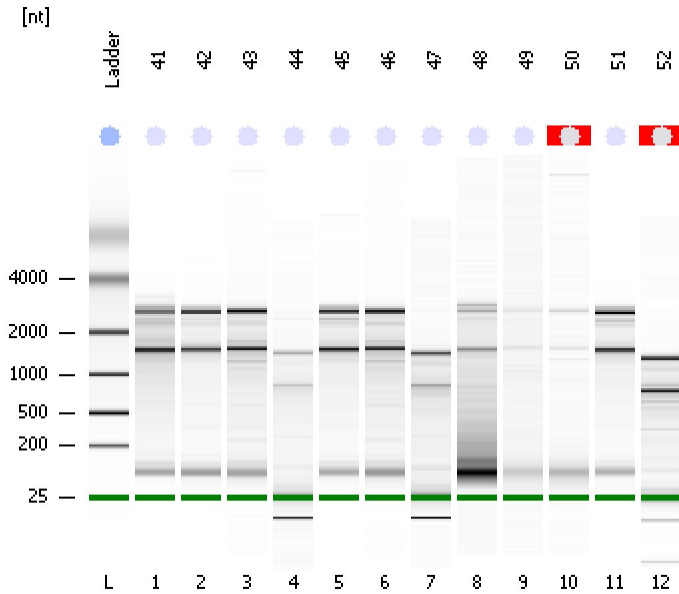


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electrophoresis File Run Summary



Instrument Information:

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

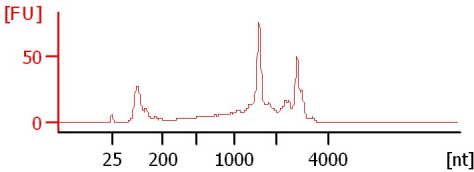
Assay Information:

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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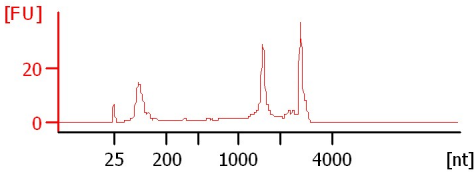
Chip Information:

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

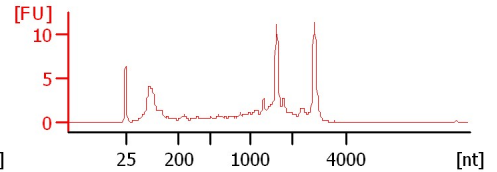
41
RIN: 7.10



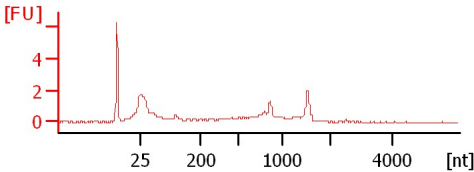
42
RIN: 8.30



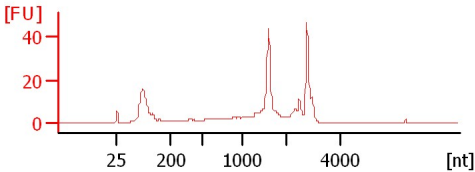
43
RIN: 7.30



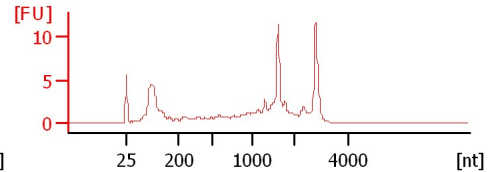
44
RIN: 5.50



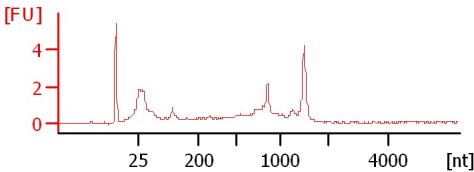
45
RIN: 8.10



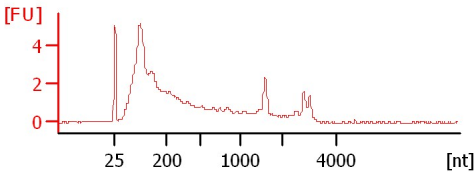
46
RIN: 7



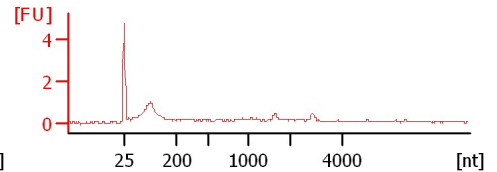
47
RIN: 5.70



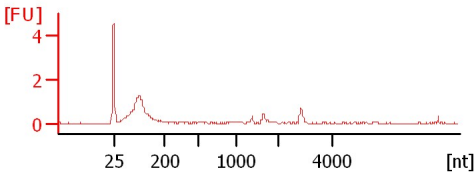
48
RIN: 3.10



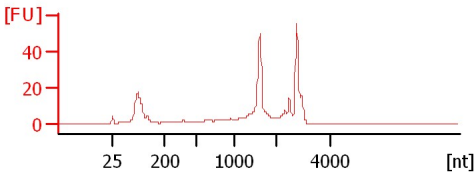
49
RIN: 2



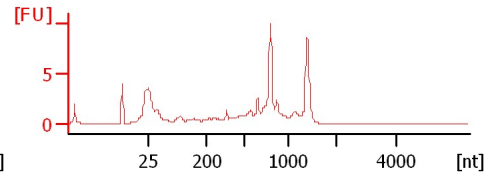
50
RIN N/A



51
RIN: 8.20



52
RIN N/A



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
 Modified: 8/16/2013 12:36:56 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
41	41	✓	RIN: 7.10	
42	42	✓	RIN: 8.30	
43	43	✓	RIN: 7.30	
44	44	✓	RIN: 5.50	
45	45	✓	RIN: 8.10	
46	46	✓	RIN:7	
47	47	✓	RIN: 5.70	
48	48	✓	RIN: 3.10	
49	49	✓	RIN:2	
50	50	✓	RIN N/A	
51	51	✓	RIN: 8.20	
52	52	✓	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\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 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

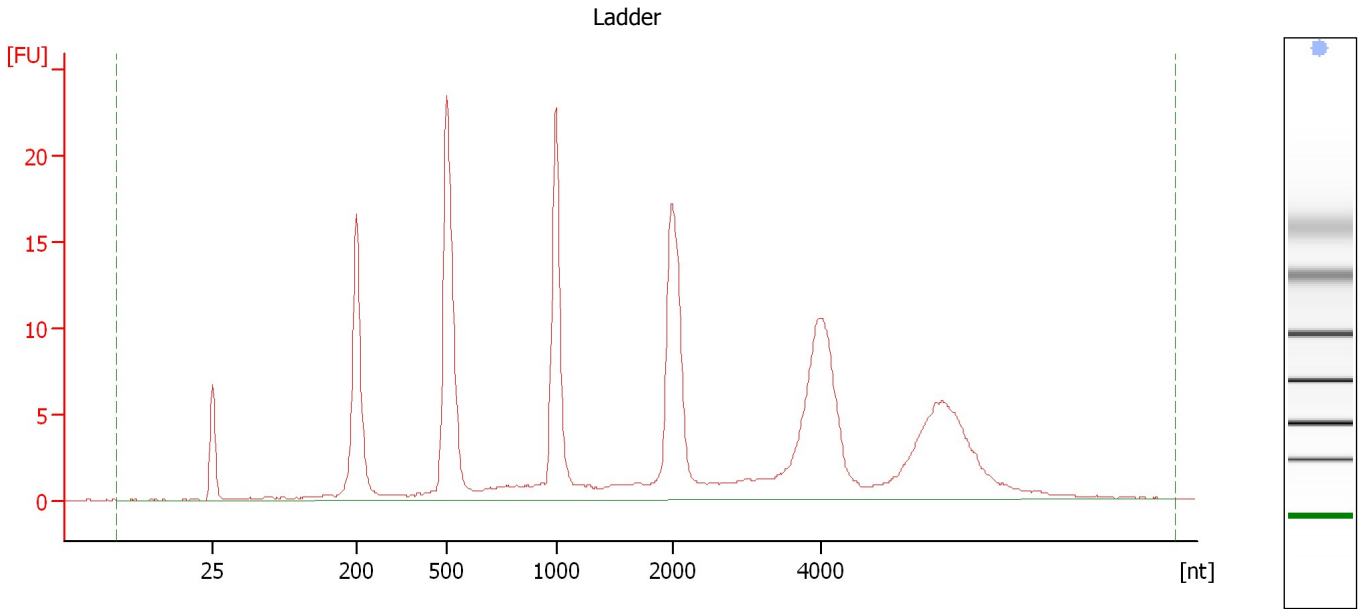
Ladder

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\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary



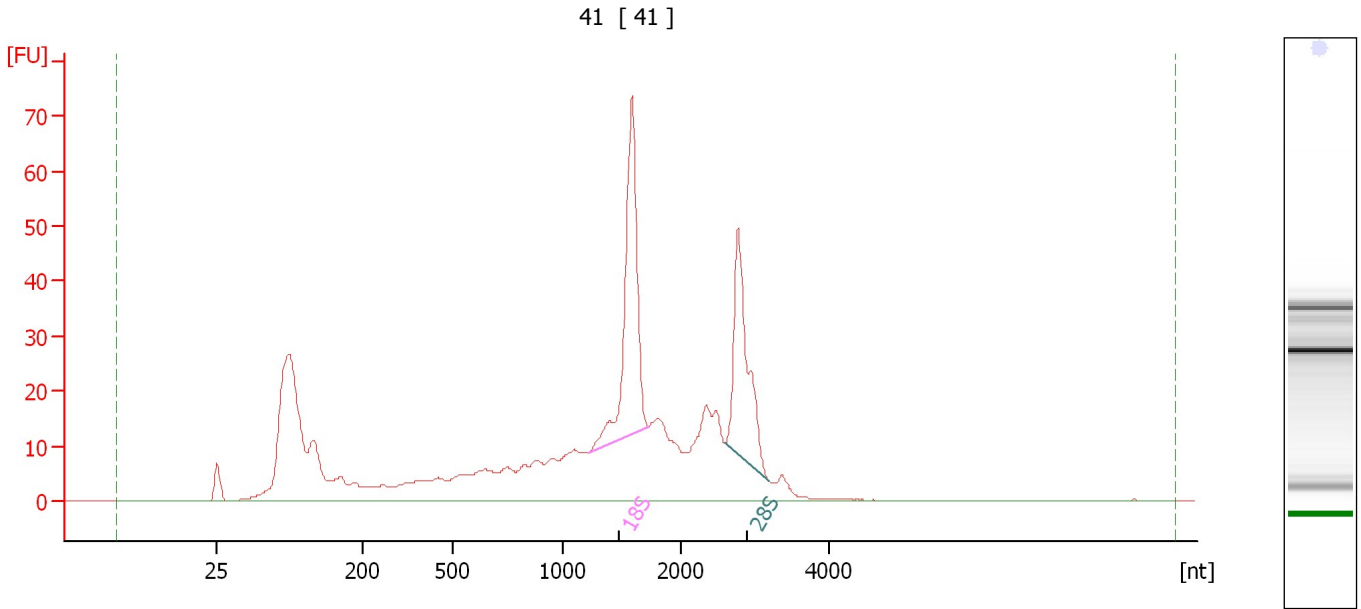
Overall Results for Ladder

RNA Area:	212.9	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\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
 Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 41

RNA Area:	659.1	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	464 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 7.10

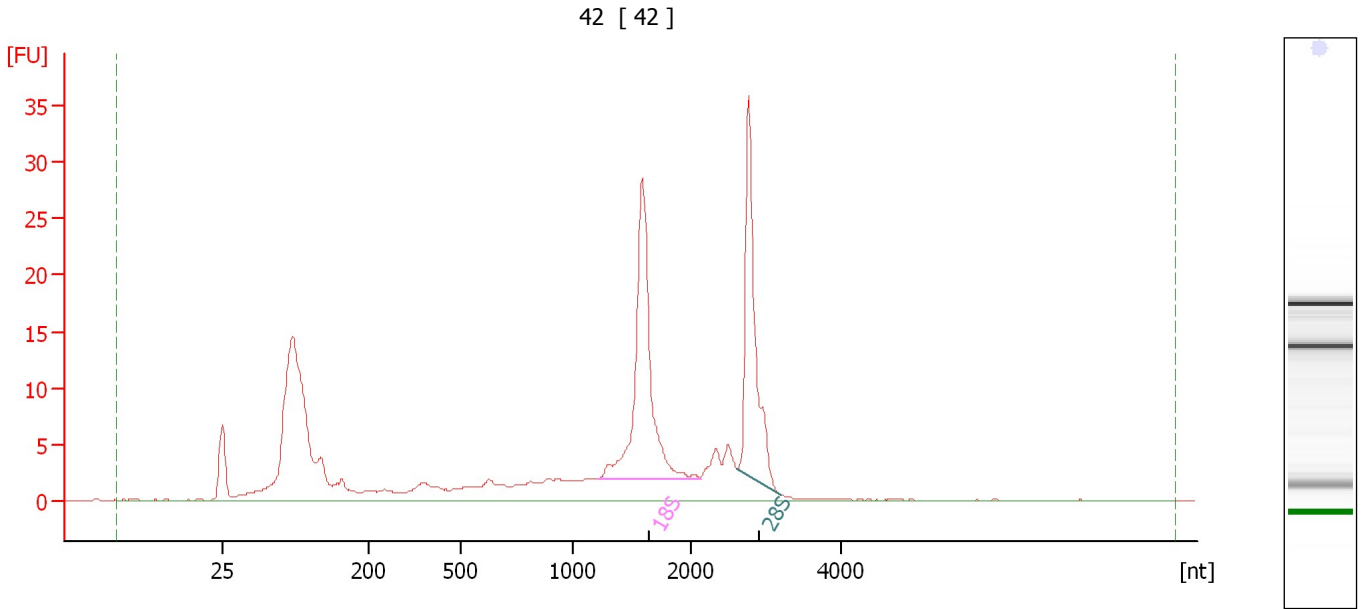
Fragment table for sample 1 : 41

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,221	1,721	89.6	13.6
28S	2,595	3,198	61.4	9.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 42

RNA Area:	238.5	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	168 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 8.30

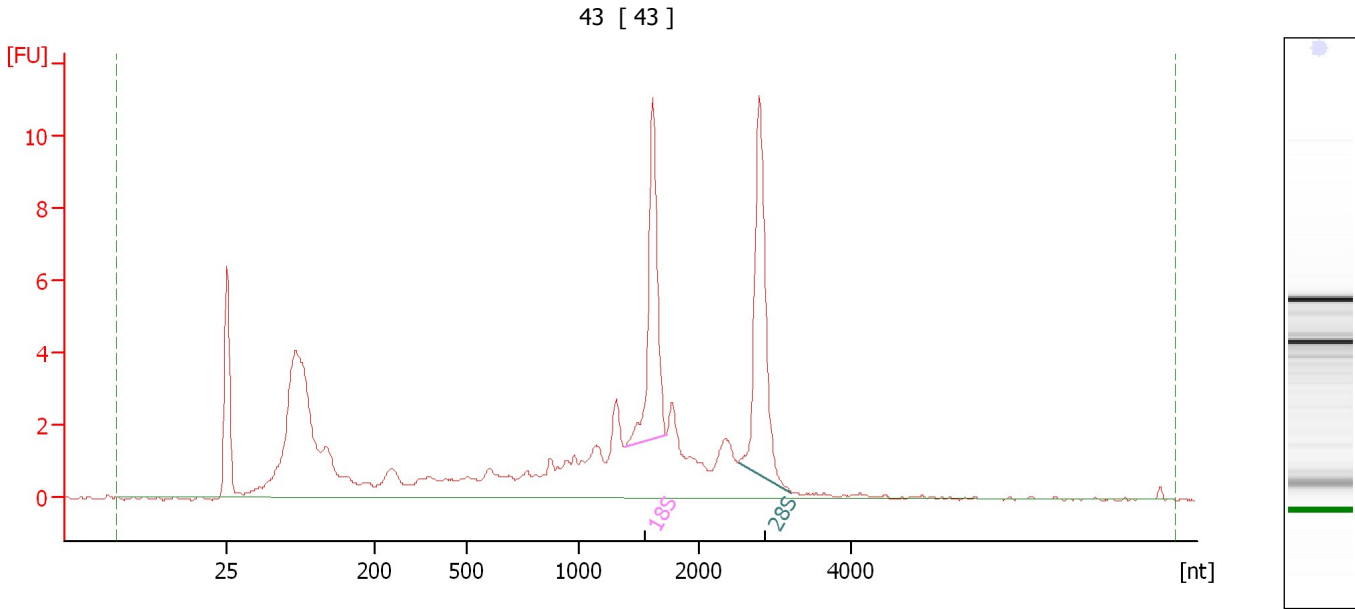
Fragment table for sample 2 : 42

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,224	2,127	47.1	19.8
28S	2,625	3,194	36.1	15.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 43

RNA Area: 92.3 RNA Integrity Number (RIN): 7.3 (B.02.08)
RNA Concentration: 65 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 7.30

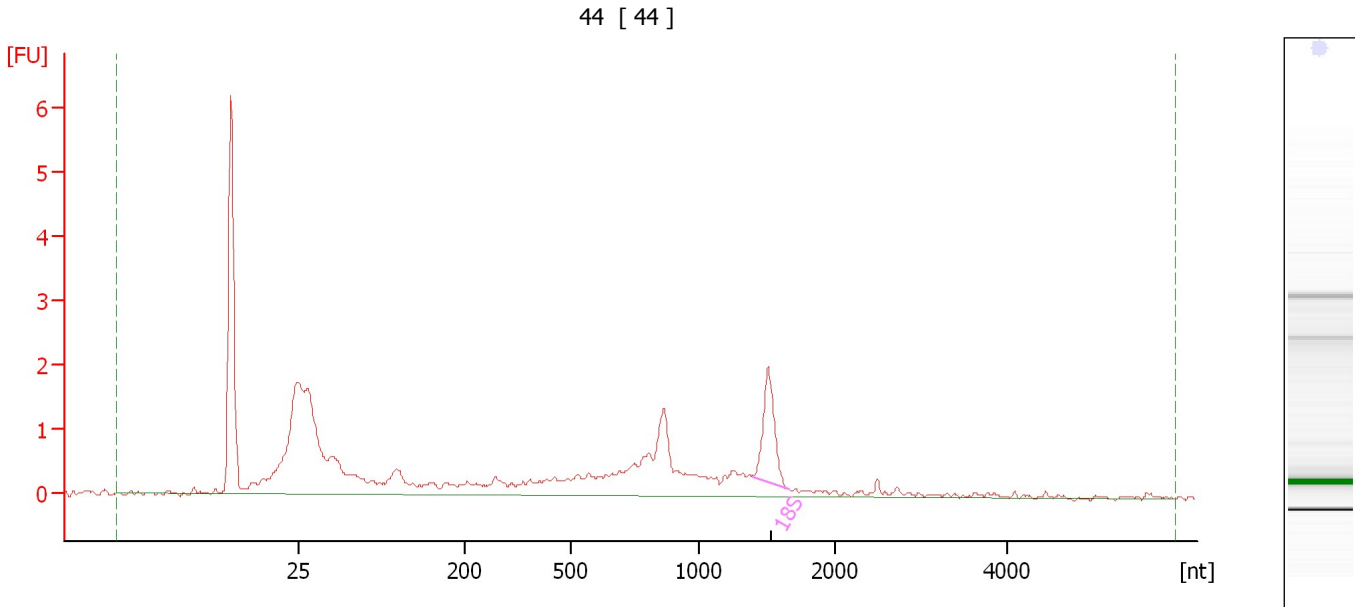
Fragment table for sample 3 : 43

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,386	1,726	10.4	11.3
28S	2,527	3,218	12.2	13.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 44

RNA Area:	29.4	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	21 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.50

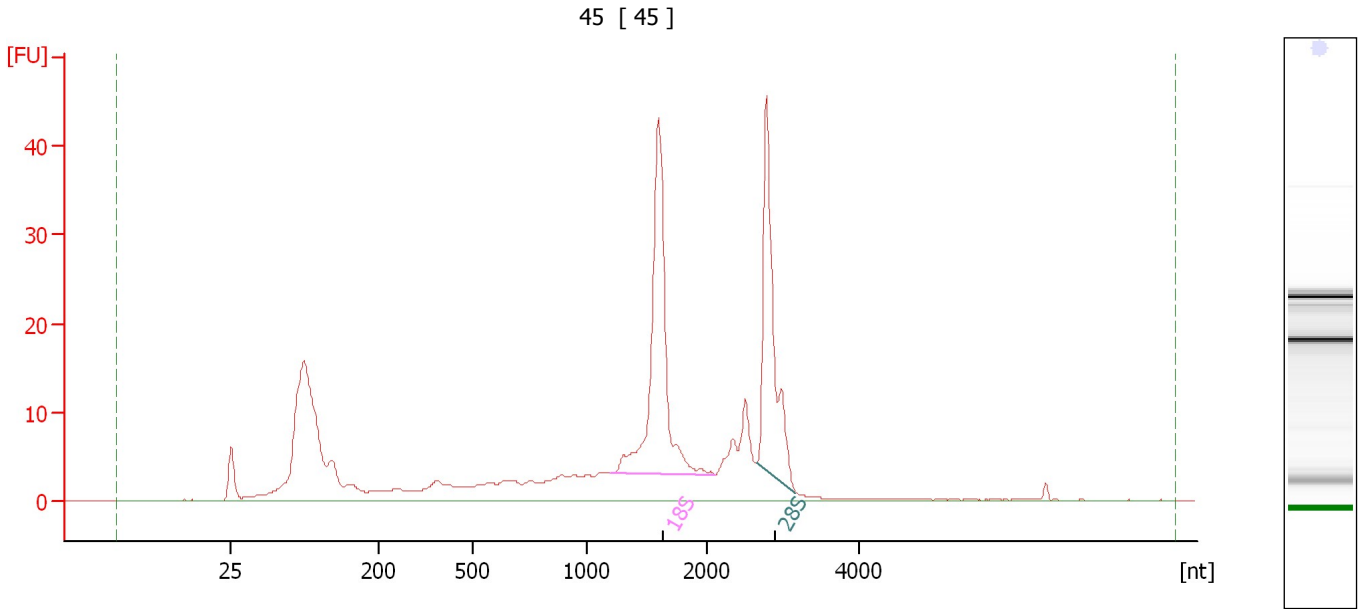
Fragment table for sample 4 : 44

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,404	1,656	2.1	7.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 45

RNA Area: 322.6 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 227 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN: 8.10

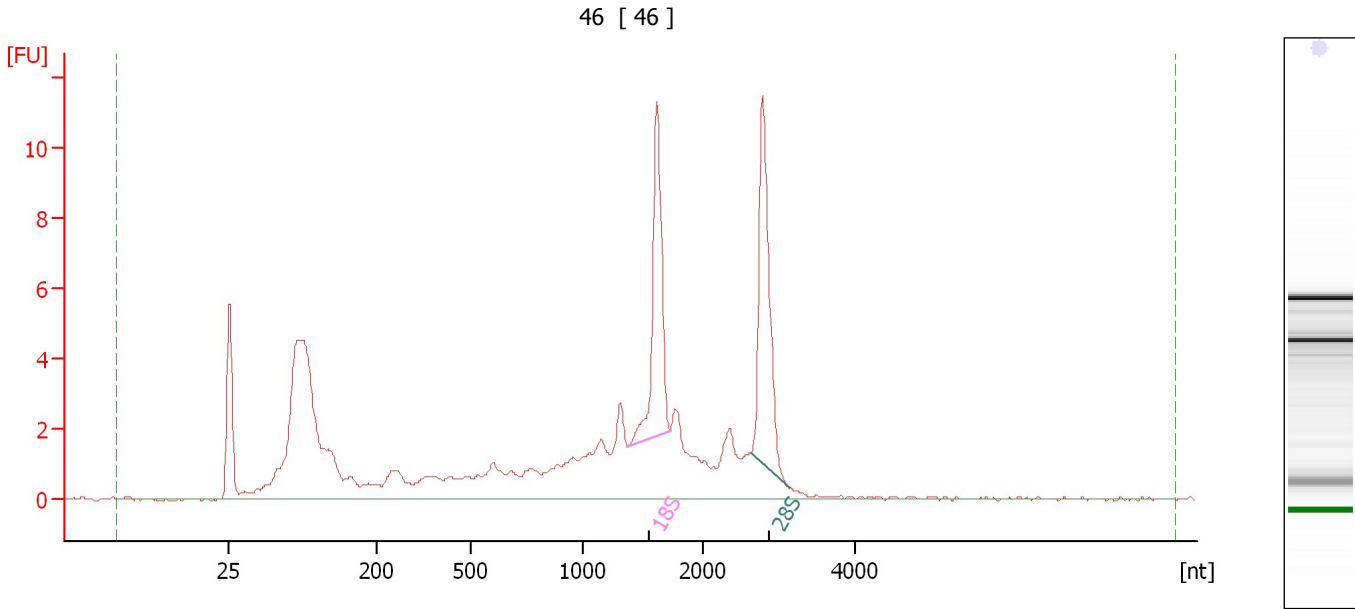
Fragment table for sample 5 : 45

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,209	2,108	65.1	20.2
28S	2,640	3,158	47.0	14.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 46

RNA Area:	99.9	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	70 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN:7

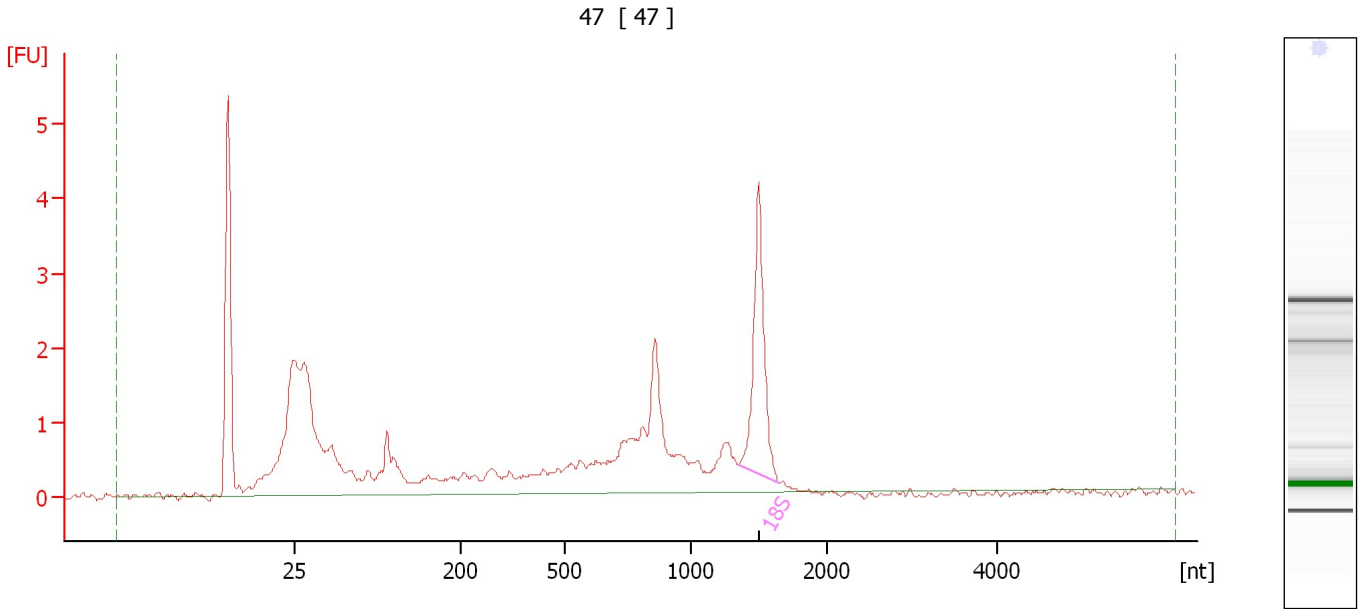
Fragment table for sample 6 : 46

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,373	1,729	10.3	10.3
28S	2,626	3,118	12.0	12.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 47

RNA Area:	33.7	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	24 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.70

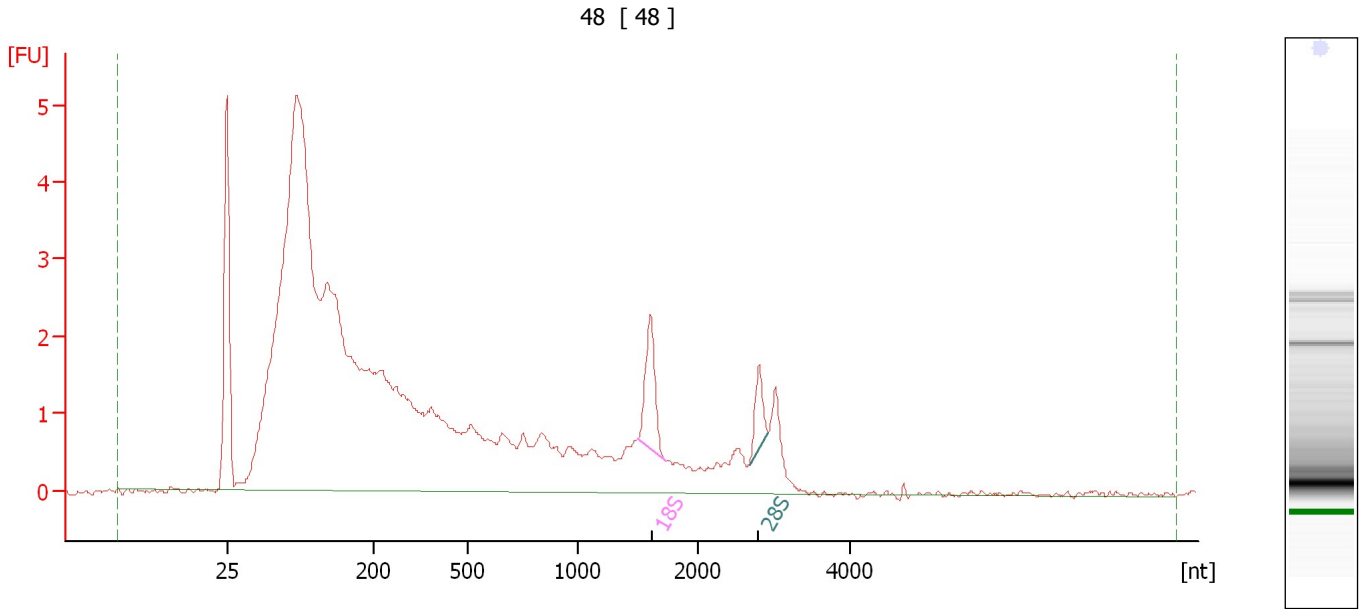
Fragment table for sample 7 : 47

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,357	1,642	4.3	12.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 48

RNA Area:	86.0	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	61 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 3.10

Fragment table for sample 8 : 48

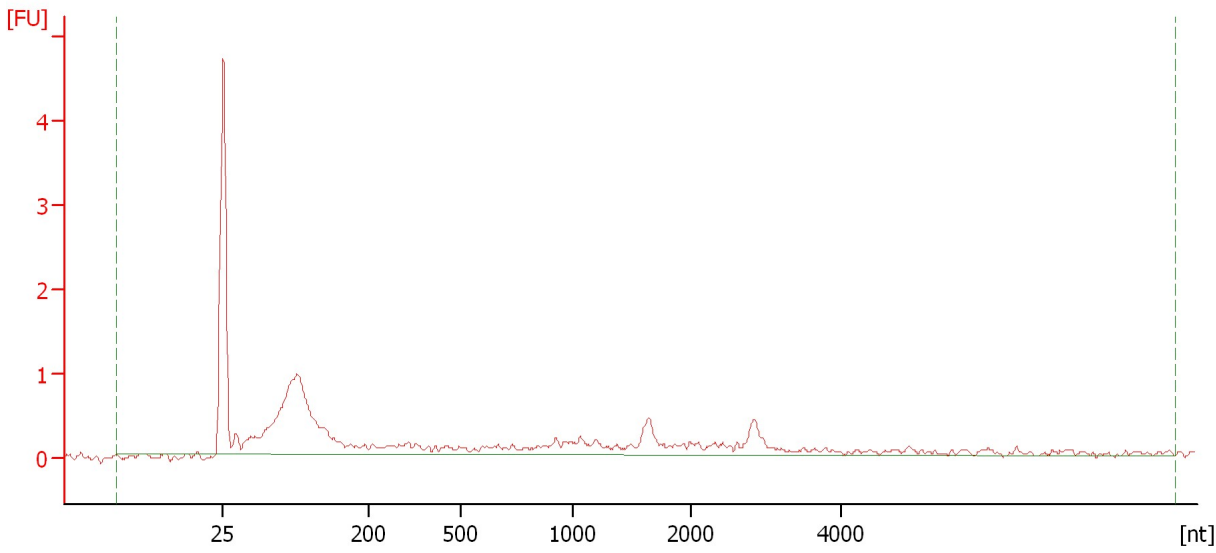
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,501	1,733	2.0	2.3
28S	2,682	2,936	0.9	1.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...

49 [49]



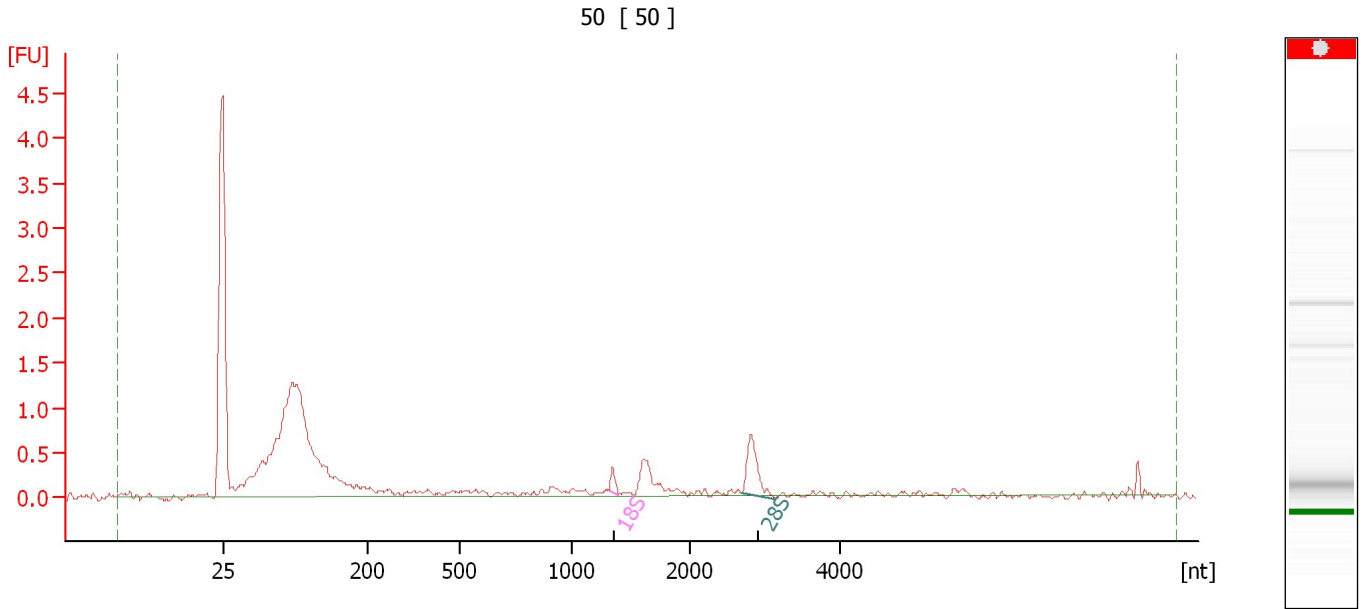
Overall Results for sample 9 : 49

RNA Area:	14.9	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	10 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 50

RNA Area:	13.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	5.3	Result Flagging Label:	RIN N/A

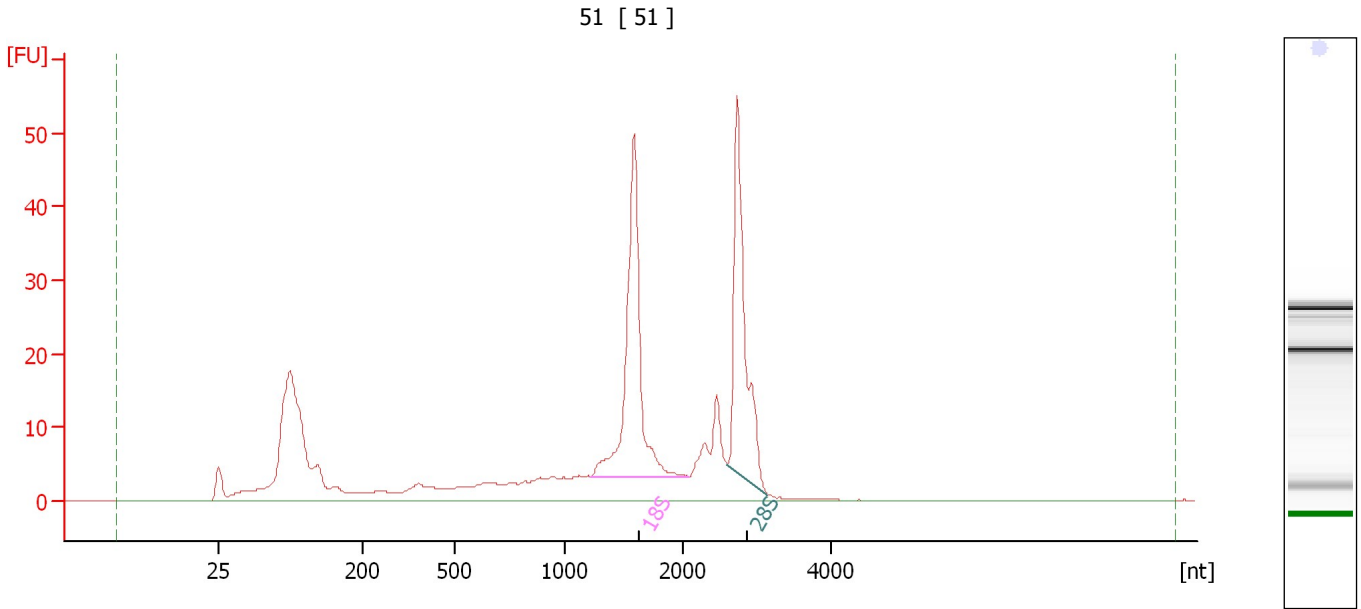
Fragment table for sample 10 : 50

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,321	1,393	0.1	1.1
28S	2,696	3,109	0.8	5.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 51

RNA Area: 368.6 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 260 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 8.20

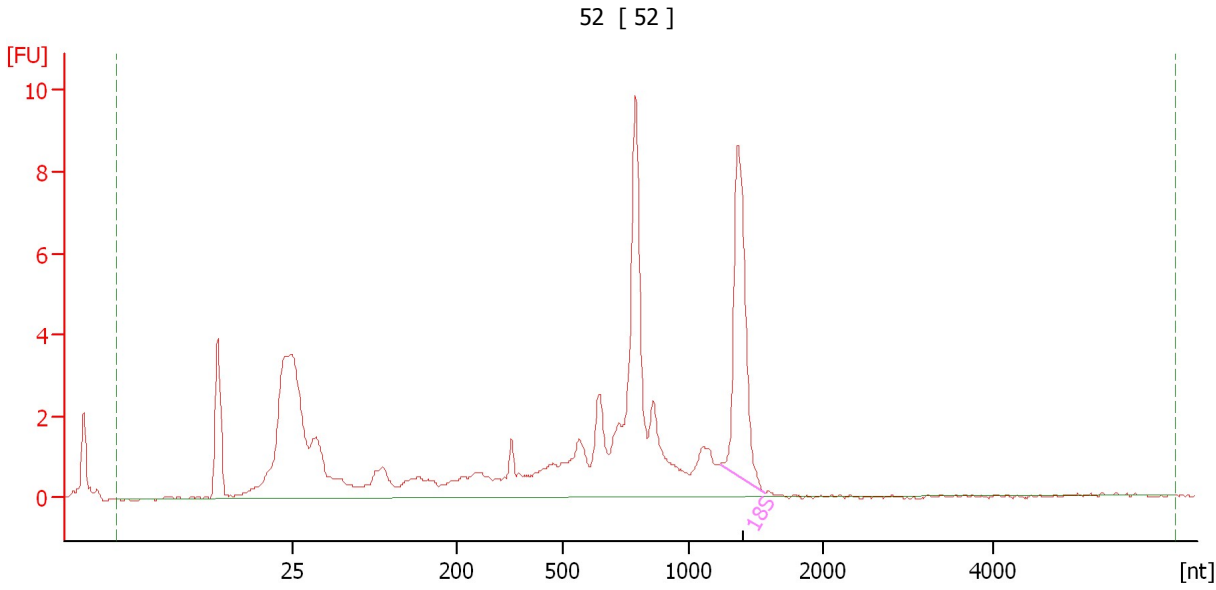
Fragment table for sample 11 : 51

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,214	2,093	76.0	20.6
28S	2,595	3,140	59.4	16.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 52

RNA Area:	68.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	48 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

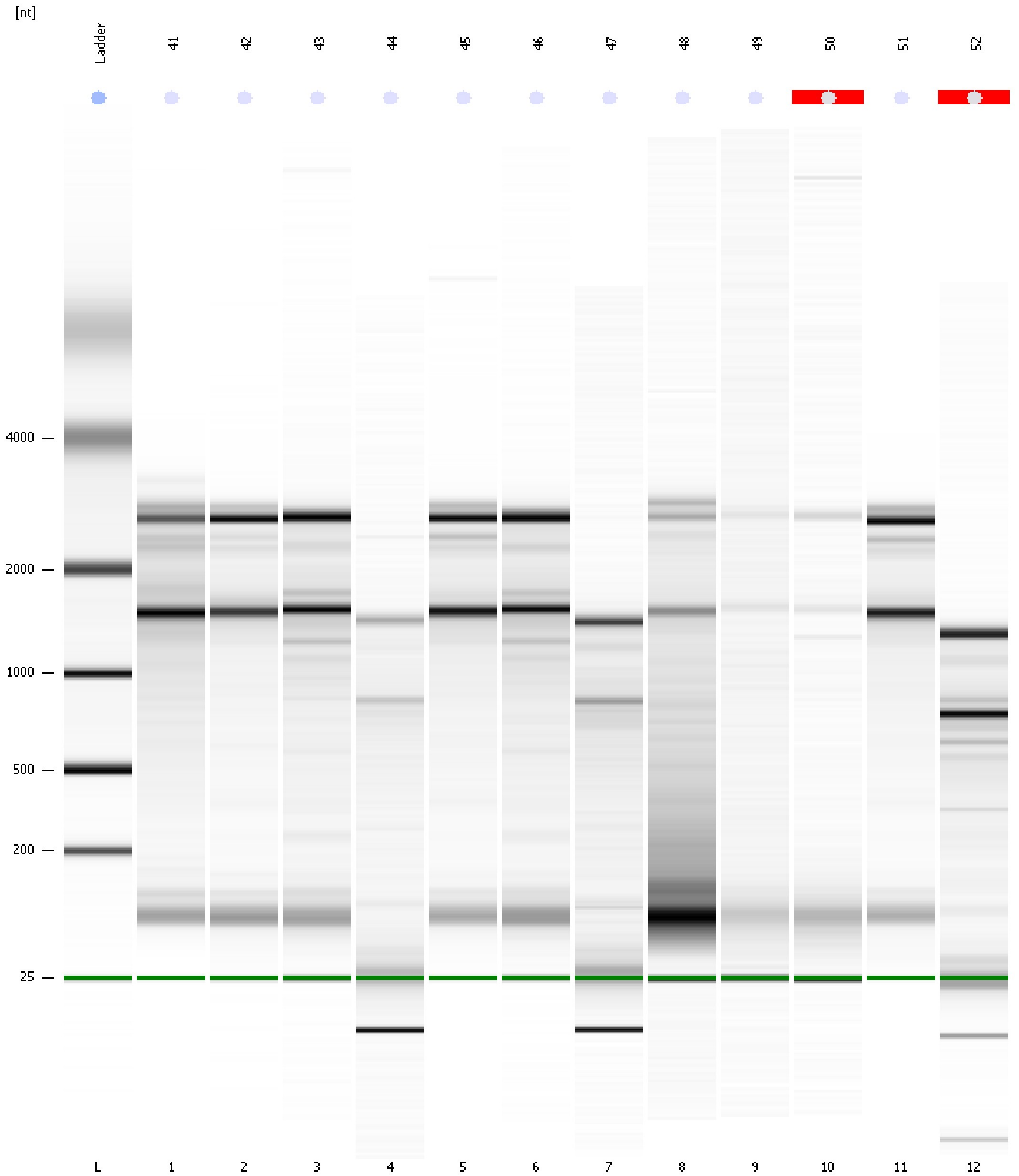
Fragment table for sample 12 : 52

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,242	1,568	10.3	15.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
Modified: 8/16/2013 12:36:56 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad

Created: 8/16/2013 11:52:44 AM
 Modified: 8/16/2013 12:36:56 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		8/16/2013 12:16:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-16\2013-08-16_002.xad)		Instrument	Run		8/16/2013 11:52:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/16/2013 11:52:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/16/2013 11:52:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/16/2013 11:52:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/16/2013 11:52:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/16/2013 11:52:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/16/2013 11:52:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1