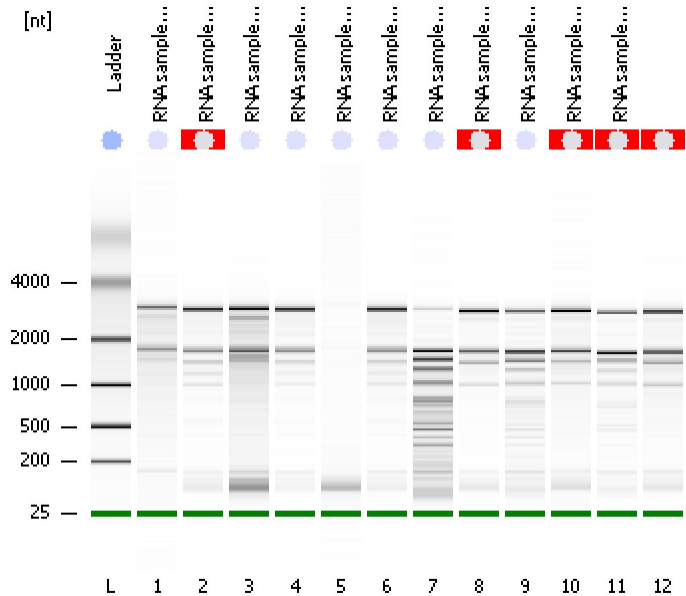


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 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

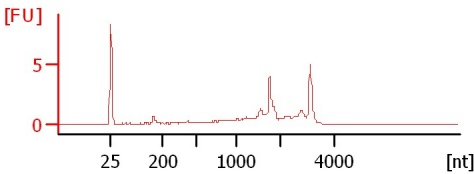
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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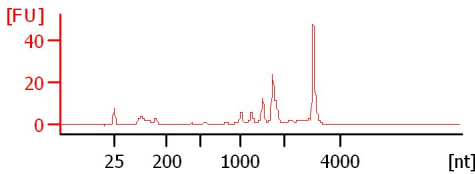
Chip Information:

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

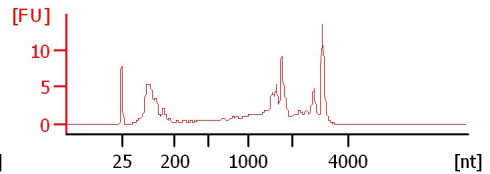
RNA sample no. 67
RIN: 7.20



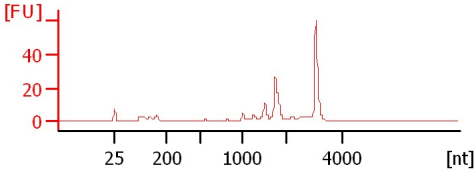
RNA sample no. 68
RIN N/A



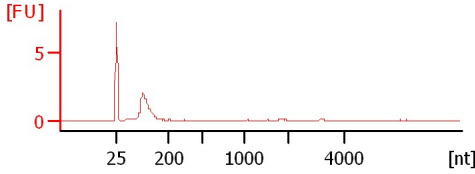
RNA sample no. 69
RIN:6



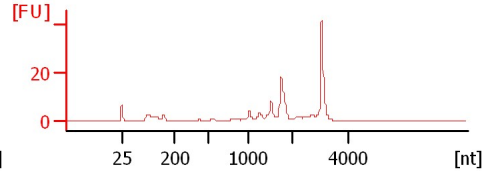
RNA sample no. 70
RIN: 8.30



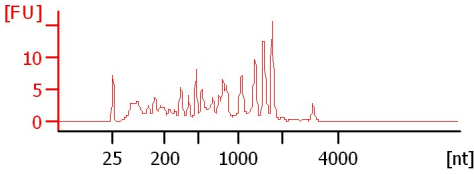
RNA sample no. 71
RIN: 2.30



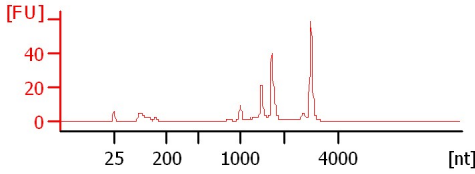
RNA sample no. 72
RIN: 8.10



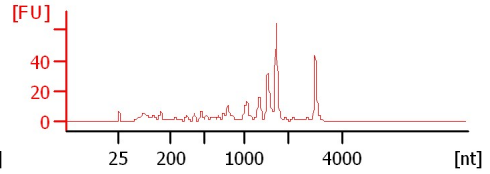
RNA sample no. 73
RIN: 4.80



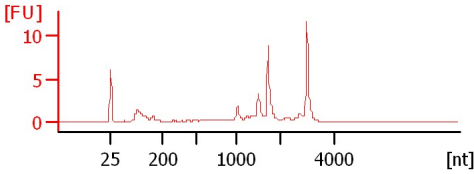
RNA sample no. 74
RIN N/A



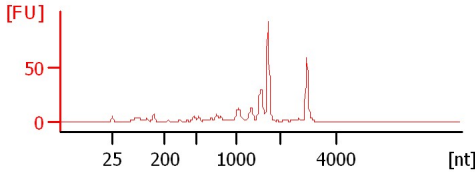
RNA sample no. 75
RIN:6



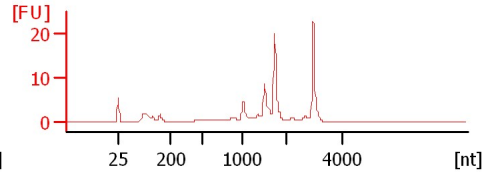
RNA sample no. 76
RIN N/A



RNA sample no. 77
RIN N/A



RNA sample no. 78
RIN N/A



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
 Modified: 8/27/2013 2:19:27 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
RNA sample no. 67		✓	RIN: 7.20	
RNA sample no. 68		✓	RIN N/A	
RNA sample no. 69		✓	RIN:6	
RNA sample no. 70		✓	RIN: 8.30	
RNA sample no. 71		✓	RIN: 2.30	
RNA sample no. 72		✓	RIN: 8.10	
RNA sample no. 73		✓	RIN: 4.80	
RNA sample no. 74		✓	RIN N/A	
RNA sample no. 75		✓	RIN:6	
RNA sample no. 76		✓	RIN N/A	
RNA sample no. 77		✓	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\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 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

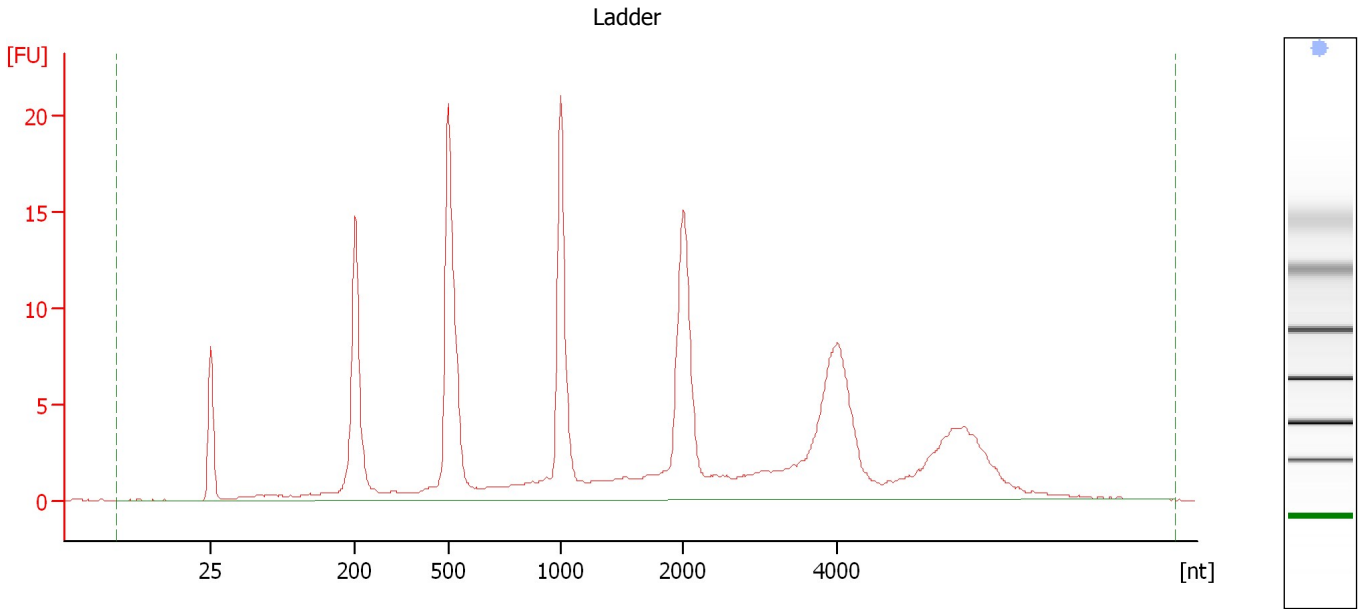
Ladder

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\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary



Overall Results for Ladder

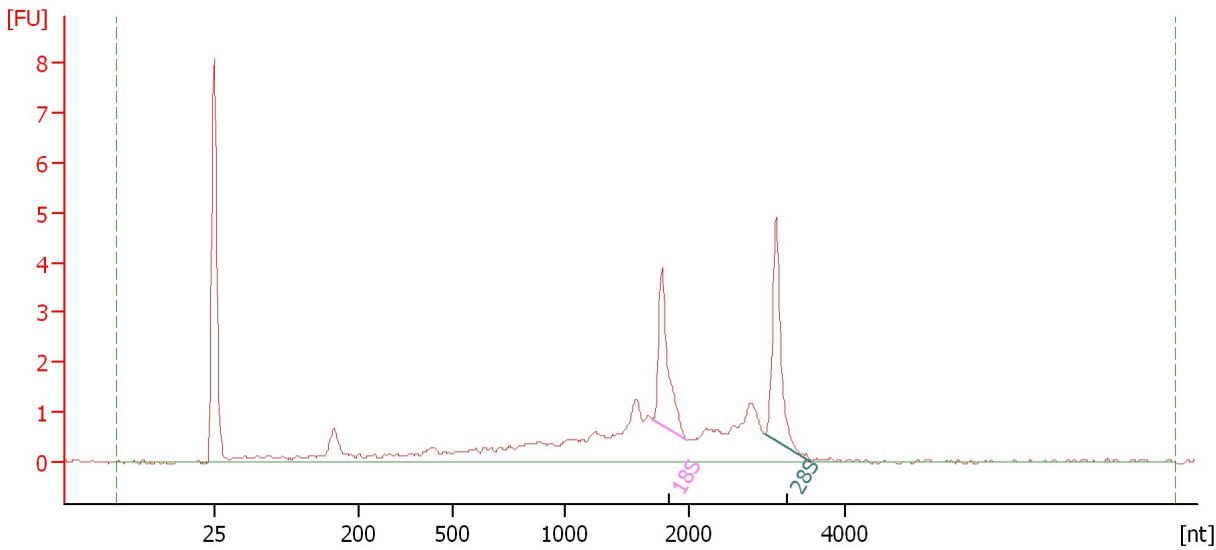
RNA Area:	196.6	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...

RNA sample no. 67



Overall Results for sample 1 : RNA sample no. 67

RNA Area: 31.2 RNA Integrity Number (RIN): 7.2 (B.02.08)
RNA Concentration: 24 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 7.20

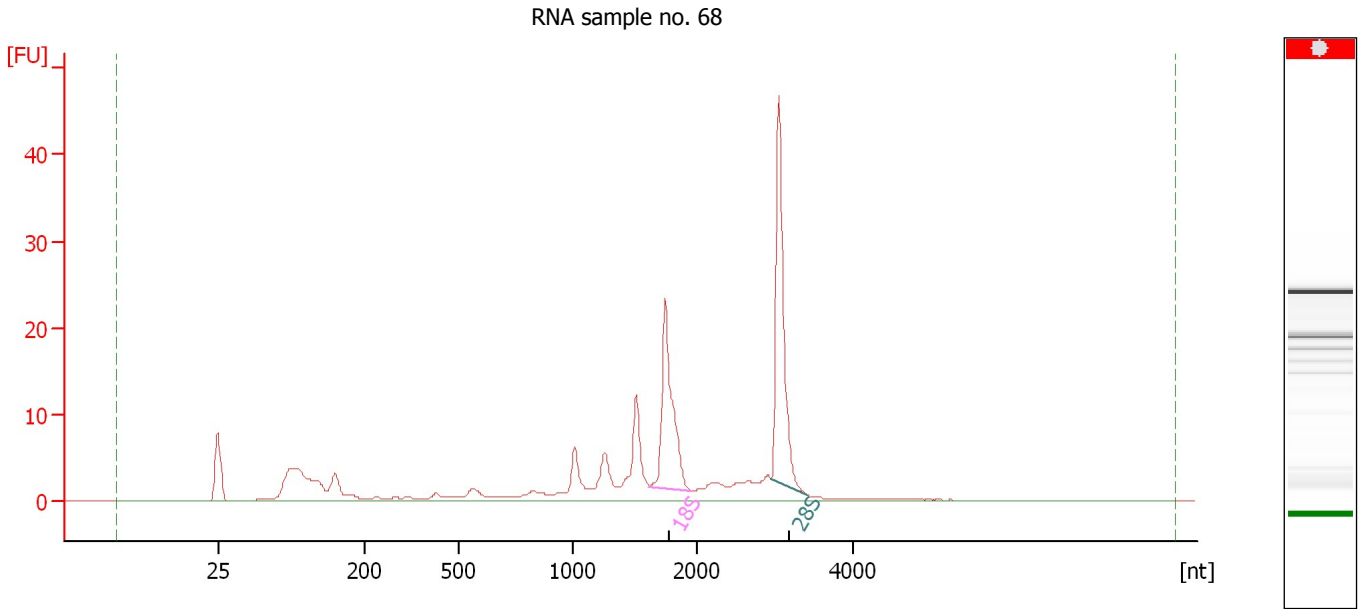
Fragment table for sample 1 : RNA sample no. 67

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,699	1,976	3.4	11.0
28S	2,969	3,576	4.0	12.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RNA sample no. 68

RNA Area: 169.0 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 129 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN N/A

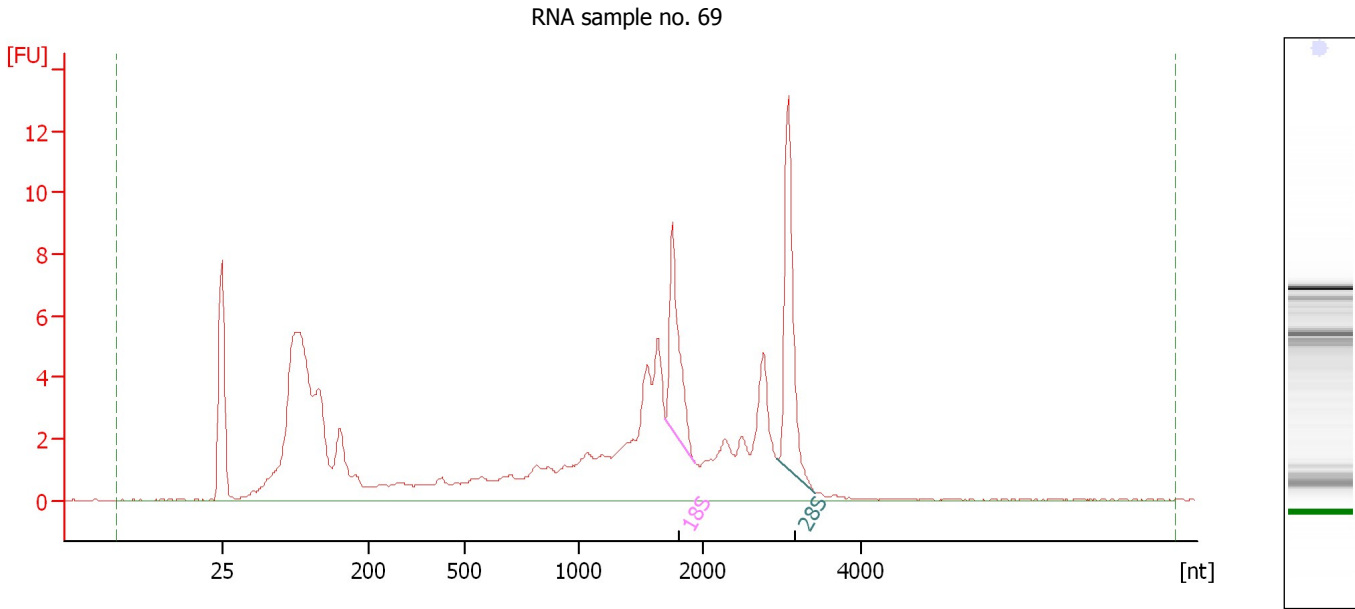
Fragment table for sample 2 : RNA sample no. 68

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	1,953	26.2	15.5
28S	2,938	3,403	37.1	22.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RNA sample no. 69

RNA Area: 123.5 RNA Integrity Number (RIN): 6 (B.02.08)
RNA Concentration: 94 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN:6

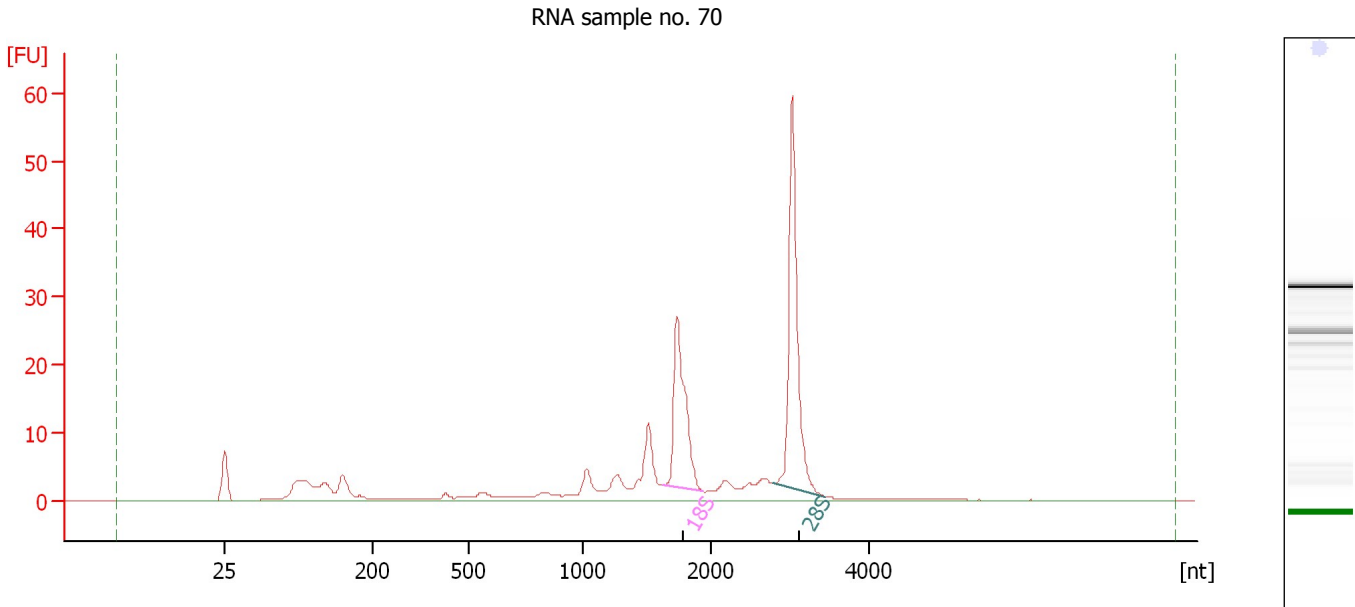
Fragment table for sample 3 : RNA sample no. 69

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,691	1,929	7.3	6.0
28S	2,935	3,411	10.2	8.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : RNA sample no. 70

RNA Area: 190.4 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 145 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.30

Fragment table for sample 4 : RNA sample no. 70

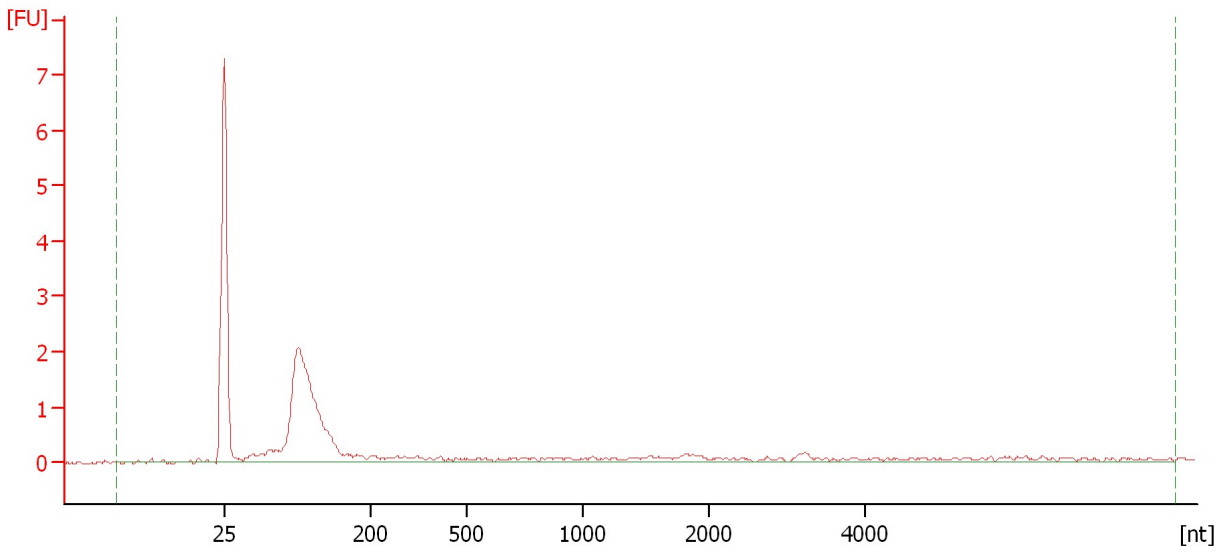
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,949	32.9	17.3
28S	2,797	3,446	51.2	26.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...

RNA sample no. 71



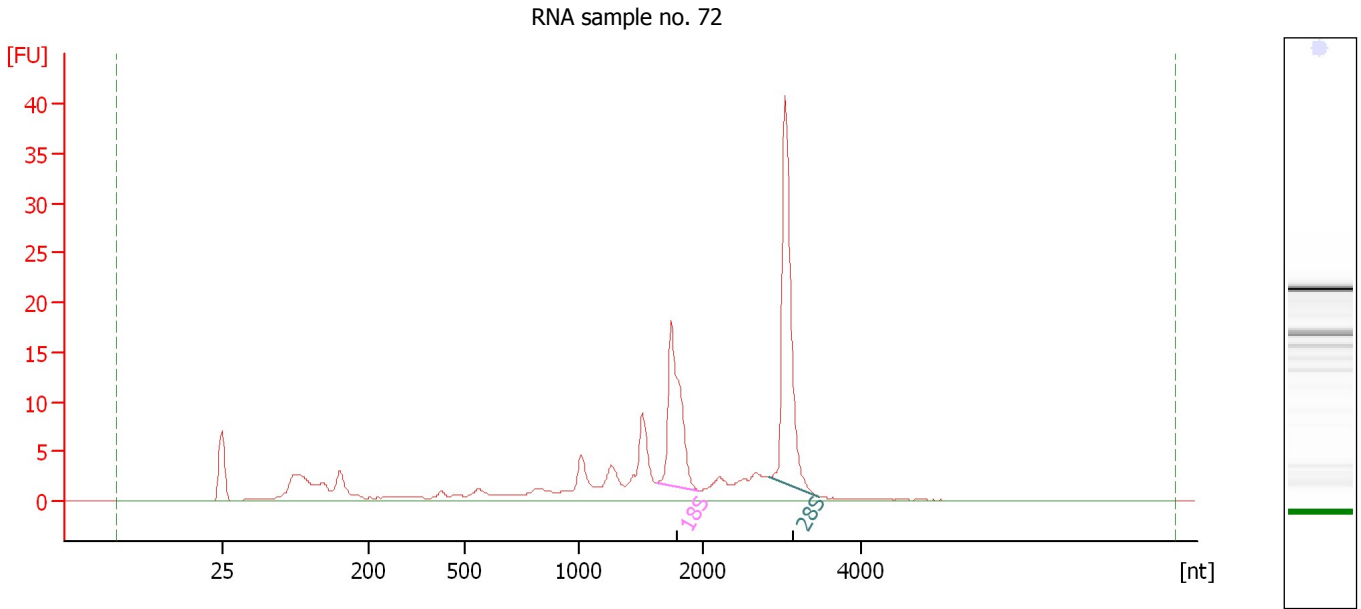
Overall Results for sample 5 : RNA sample no. 71

RNA Area:	15.2	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : RNA sample no. 72

RNA Area: 150.8 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 115 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.10

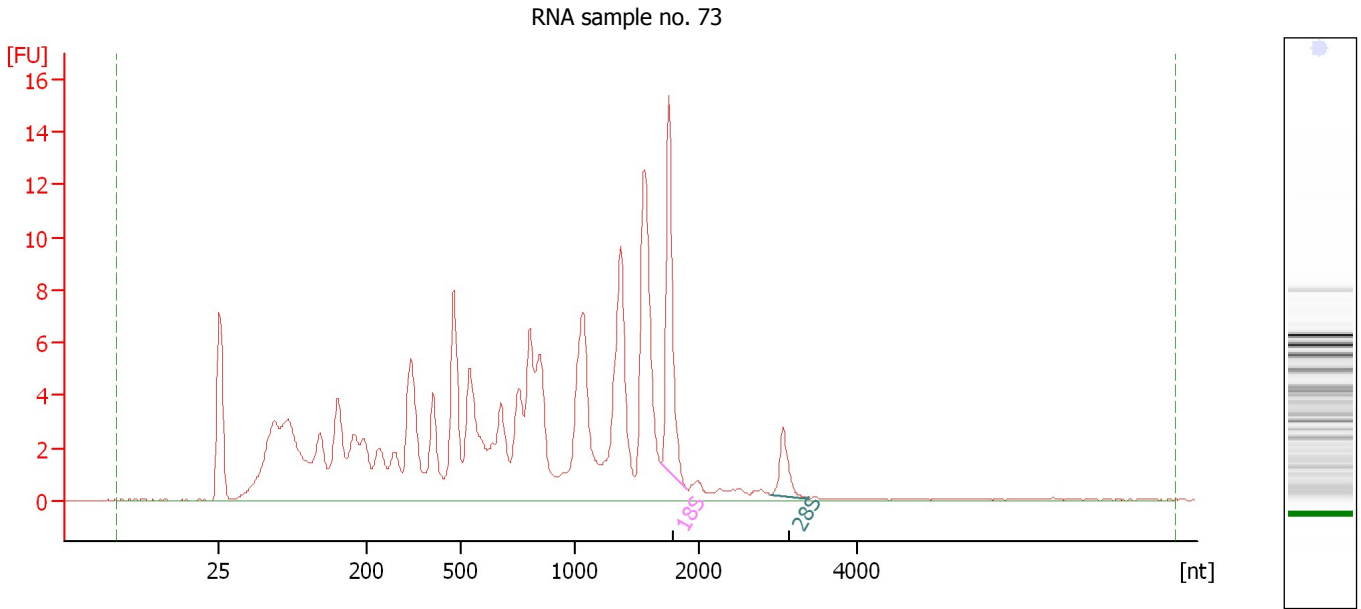
Fragment table for sample 6 : RNA sample no. 72

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	1,955	23.4	15.5
28S	2,826	3,465	35.5	23.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RNA sample no. 73

RNA Area: 172.5 RNA Integrity Number (RIN): 4.8 (B.02.08)
RNA Concentration: 132 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 4.80

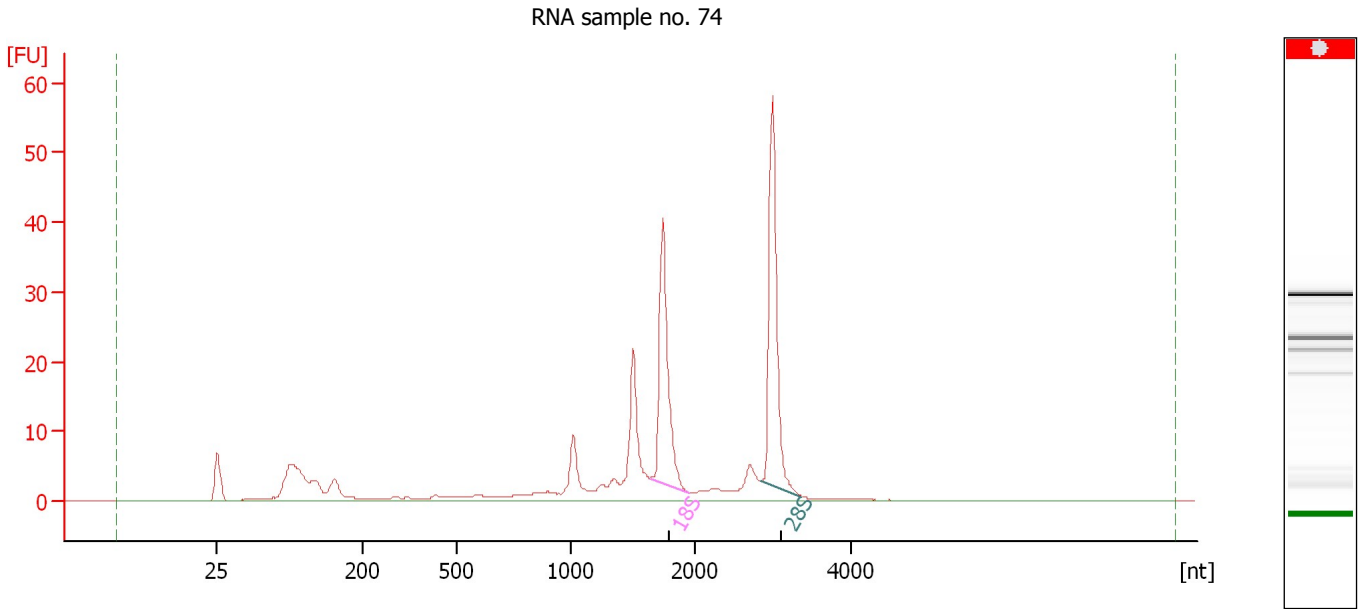
Fragment table for sample 7 : RNA sample no. 73

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	1,893	11.2	6.5
28S	2,909	3,401	2.4	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RNA sample no. 74

RNA Area: 206.3 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 157 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN N/A

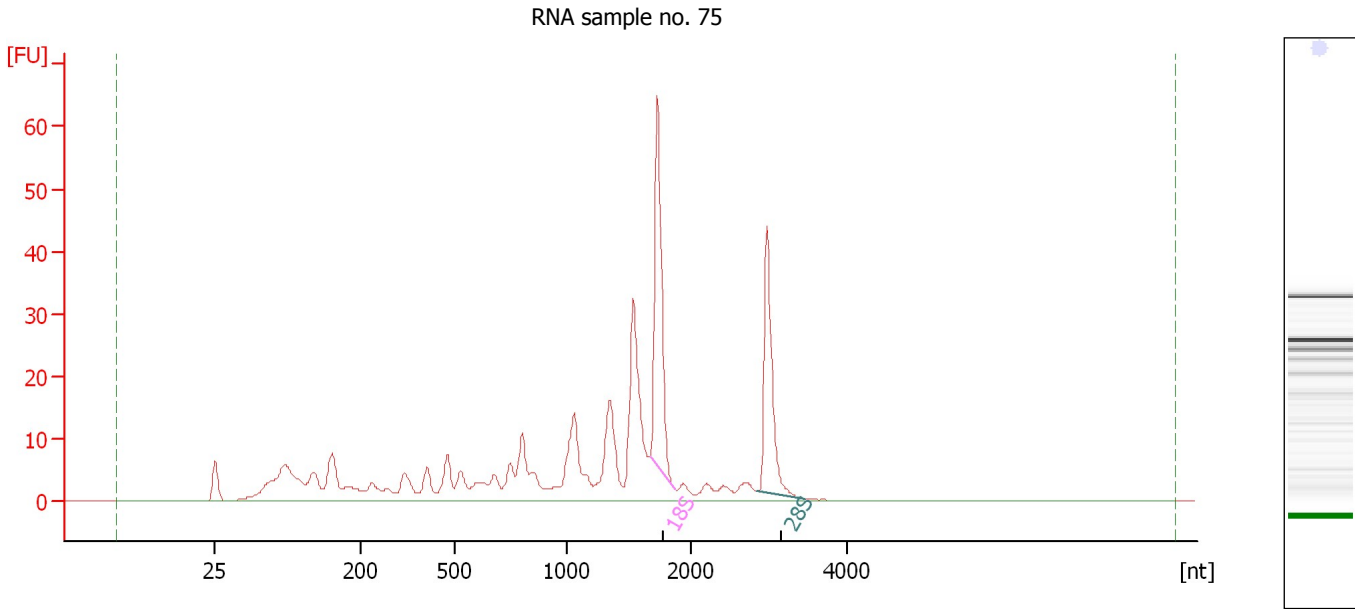
Fragment table for sample 8 : RNA sample no. 74

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	1,943	36.9	17.9
28S	2,829	3,364	44.4	21.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : RNA sample no. 75

RNA Area: 351.7 RNA Integrity Number (RIN): 6 (B.02.08)
RNA Concentration: 268 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.7 Result Flagging Label: RIN:6

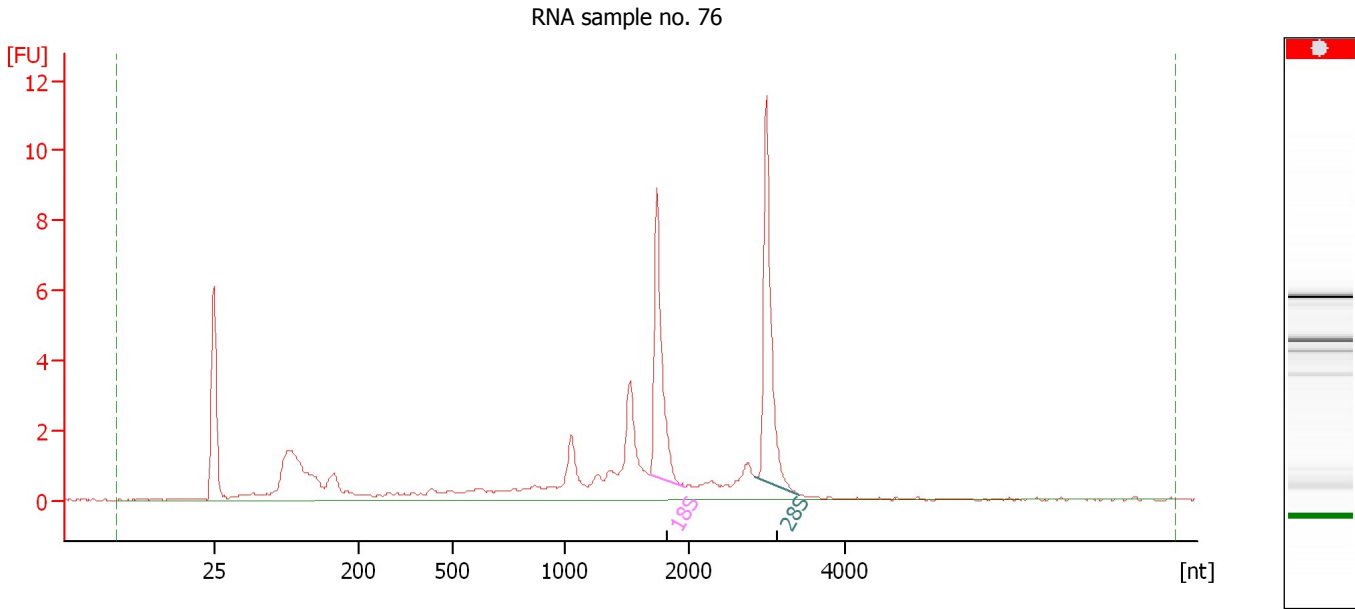
Fragment table for sample 9 : RNA sample no. 75

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,864	48.2	13.7
28S	2,844	3,464	35.4	10.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : RNA sample no. 76

RNA Area: 49.5 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 38 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN N/A

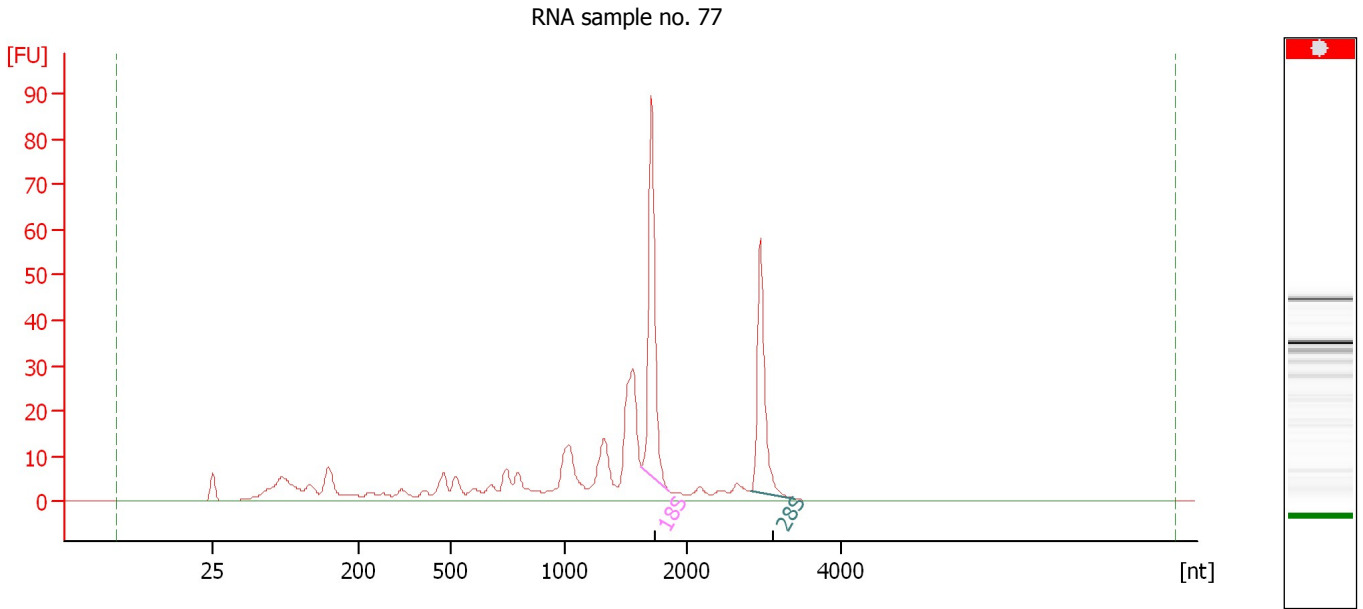
Fragment table for sample 10 : RNA sample no. 76

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,682	1,967	7.3	14.7
28S	2,845	3,410	8.7	17.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
 Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RNA sample no. 77

RNA Area:	362.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	276 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN N/A

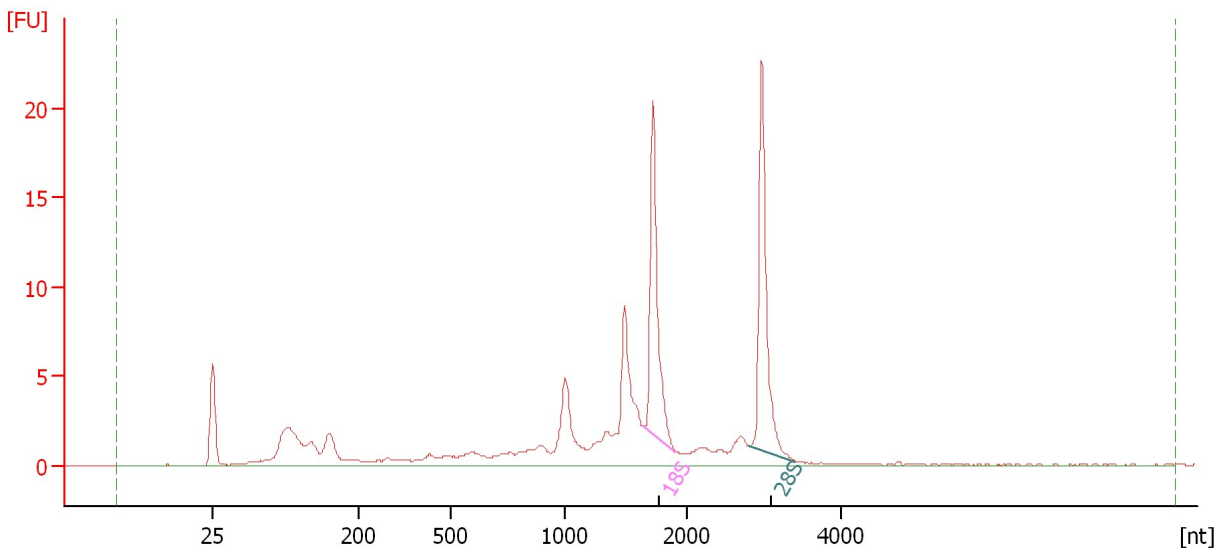
Fragment table for sample 11 : RNA sample no. 77

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,854	66.7	18.4
28S	2,831	3,399	46.1	12.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
 Modified: 8/27/2013 2:19:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area:	105.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	80 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN N/A

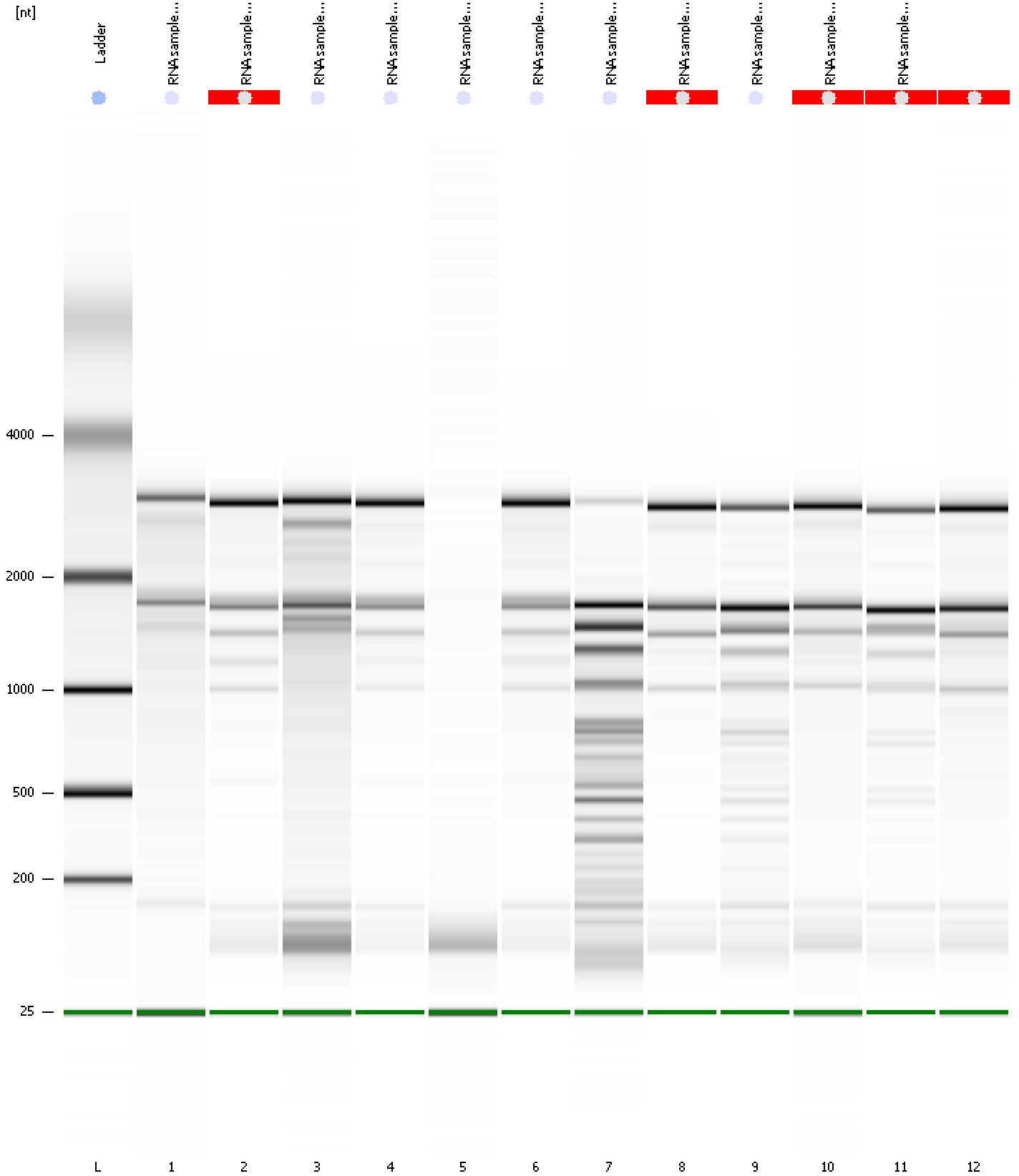
Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,646	1,906	16.6	15.7
28S	2,790	3,399	18.0	17.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
Modified: 8/27/2013 2:19:27 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad

Created: 8/27/2013 1:56:01 PM
 Modified: 8/27/2013 2:19:27 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		8/27/2013 2:19:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-27\2013-08-27_005.xad)		Instrument	Run		8/27/2013 1:56:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/27/2013 1:56:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/27/2013 1:56:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/27/2013 1:56:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/27/2013 1:56:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/27/2013 1:56:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/27/2013 1:56:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1