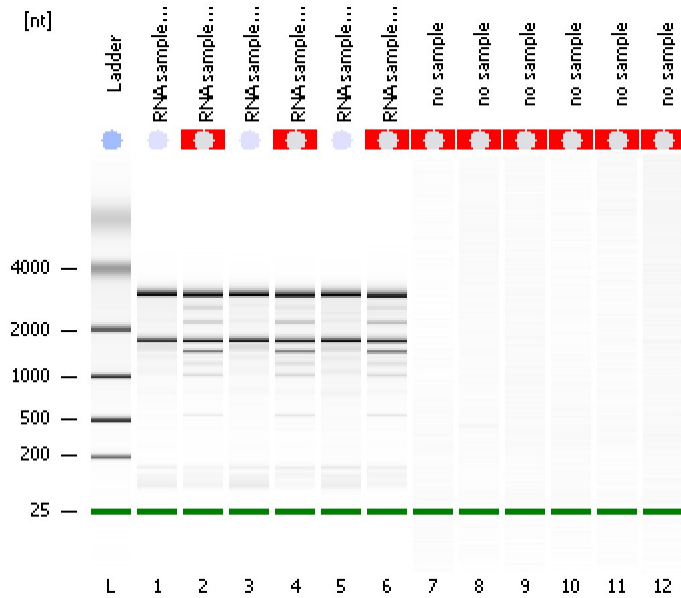


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electrophoresis File Run Summary



Instrument Information:

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

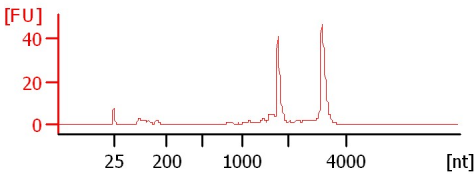
Assay Information:

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)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

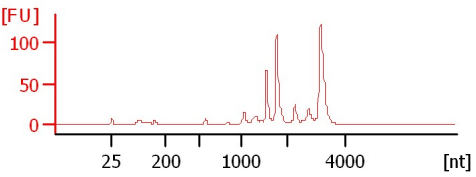
Chip Information:

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

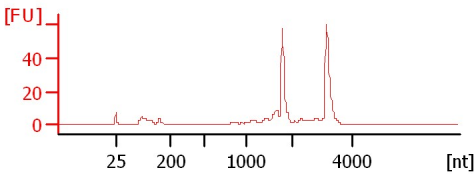
RNA sample 79
RIN: 8.50



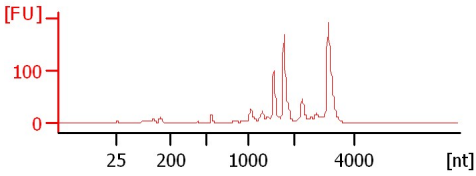
RNA sample 80
RIN N/A



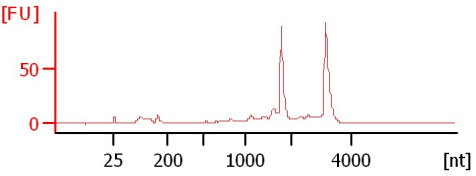
RNA sample 81
RIN: 8.20



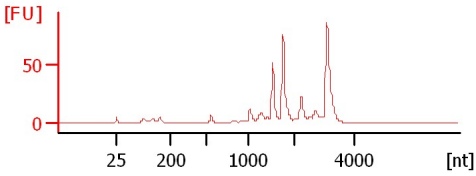
RNA sample 82
RIN N/A



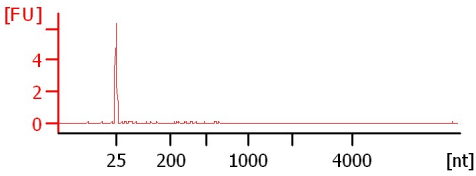
RNA sample 83
RIN: 7.80



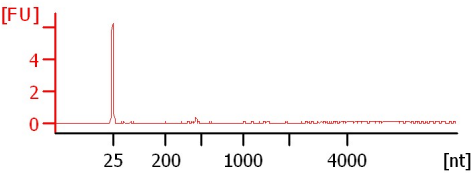
RNA sample 84
RIN N/A



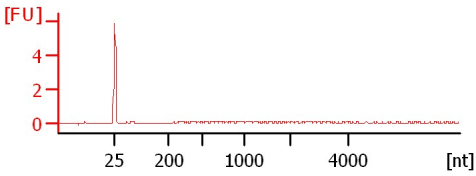
no sample
RIN N/A



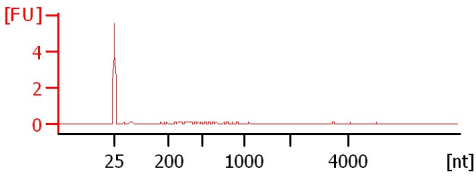
no sample
RIN N/A



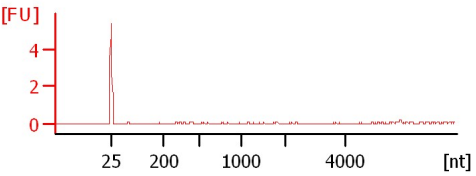
no sample
RIN N/A



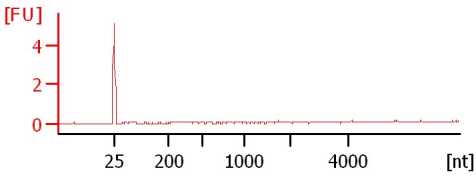
no sample
RIN N/A



no sample
RIN N/A



no sample
RIN N/A



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
 Modified: 8/27/2013 3:03:43 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
RNA sample 79		✓	RIN: 8.50	
RNA sample 80		✓	RIN N/A	
RNA sample 81		✓	RIN: 8.20	
RNA sample 82		✓	RIN N/A	
RNA sample 83		✓	RIN: 7.80	
RNA sample 84		✓	RIN N/A	
no sample		✓	RIN N/A	
no sample		✓	RIN N/A	
no sample		✓	RIN N/A	
no sample		✓	RIN N/A	
no sample		✓	RIN N/A	
no sample		✓	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_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 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

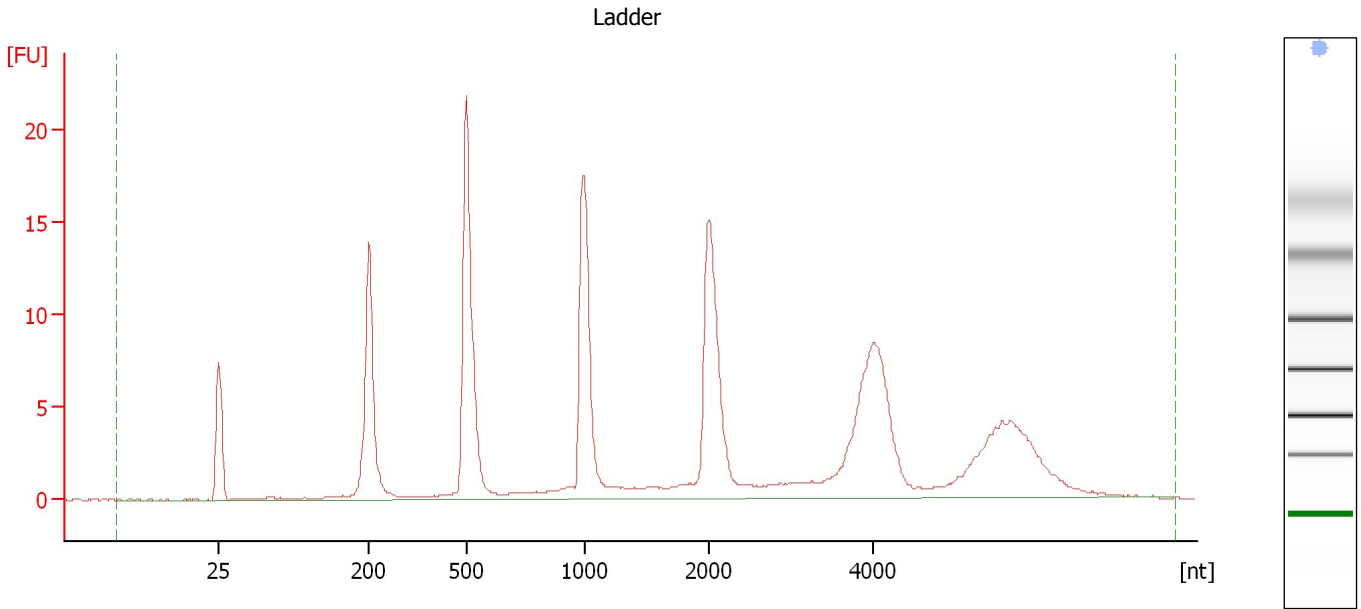
Ladder

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_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary



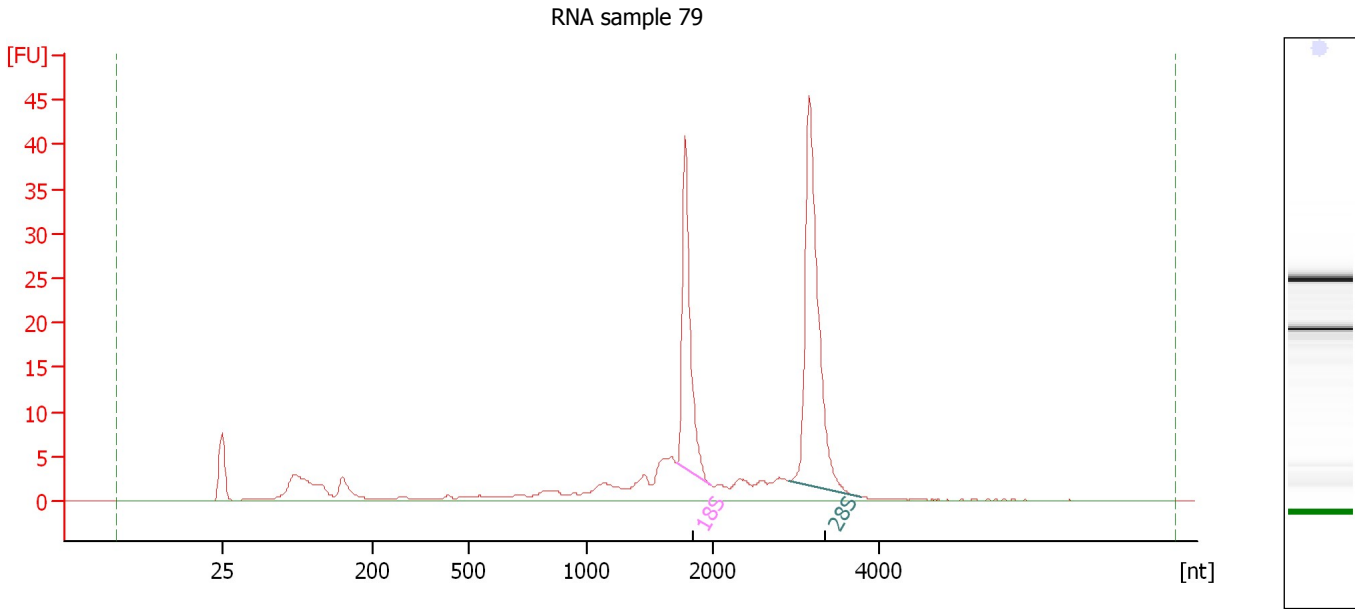
Overall Results for Ladder

RNA Area:	172.3	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_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RNA sample 79

RNA Area: 190.8 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 166 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 8.50

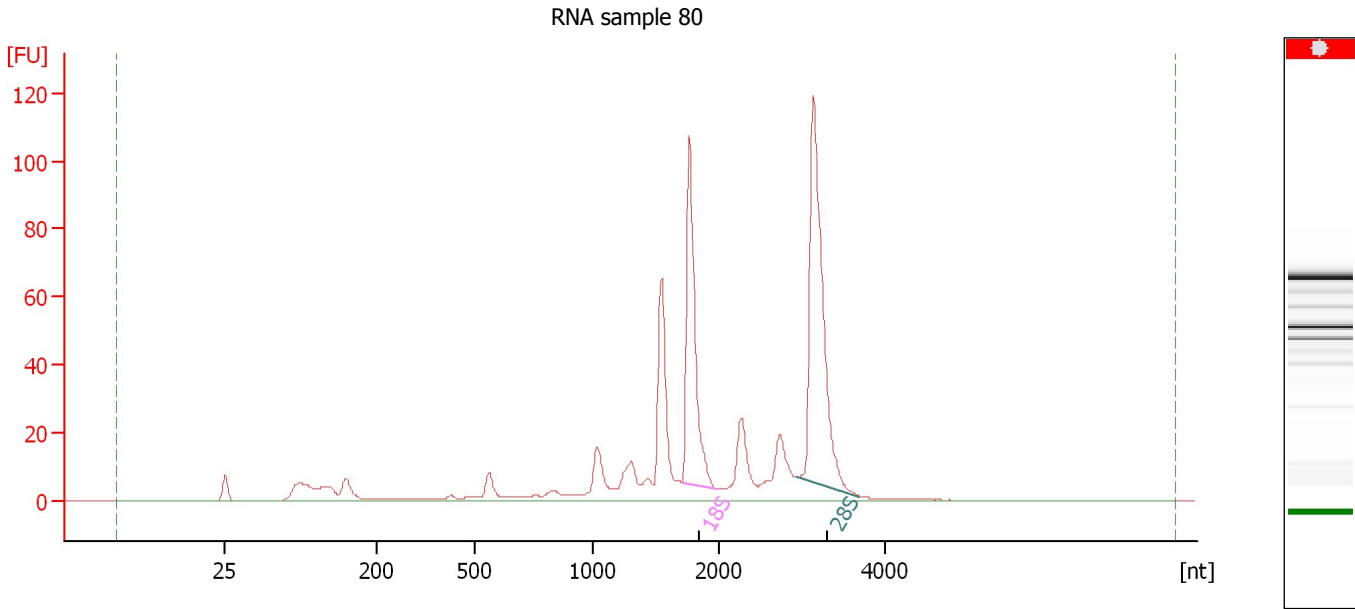
Fragment table for sample 1 : RNA sample 79

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,711	1,975	35.5	18.6
28S	2,919	3,786	58.5	30.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
 Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RNA sample 80

RNA Area:	565.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	492 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN N/A

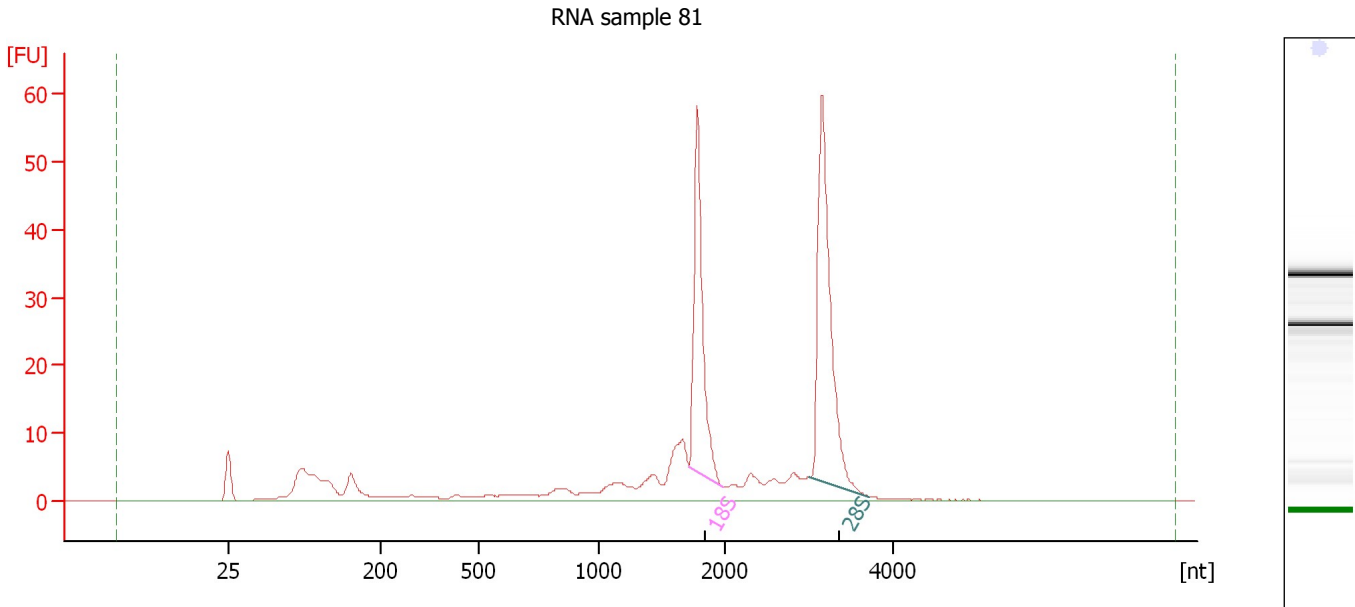
Fragment table for sample 2 : RNA sample 80

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,706	1,977	97.4	17.2
28S	2,929	3,687	149.6	26.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RNA sample 81

RNA Area: 267.4 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 233 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.20

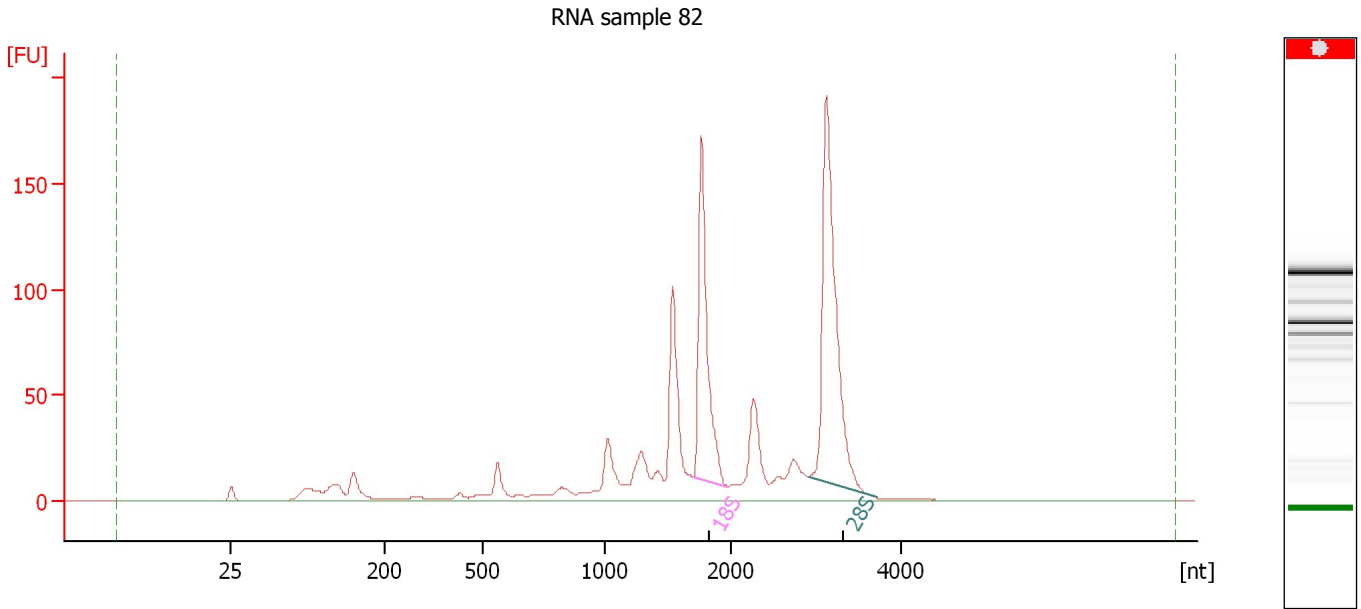
Fragment table for sample 3 : RNA sample 81

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	1,987	52.6	19.7
28S	3,002	3,717	70.9	26.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
 Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : RNA sample 82

RNA Area:	969.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	844 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN N/A

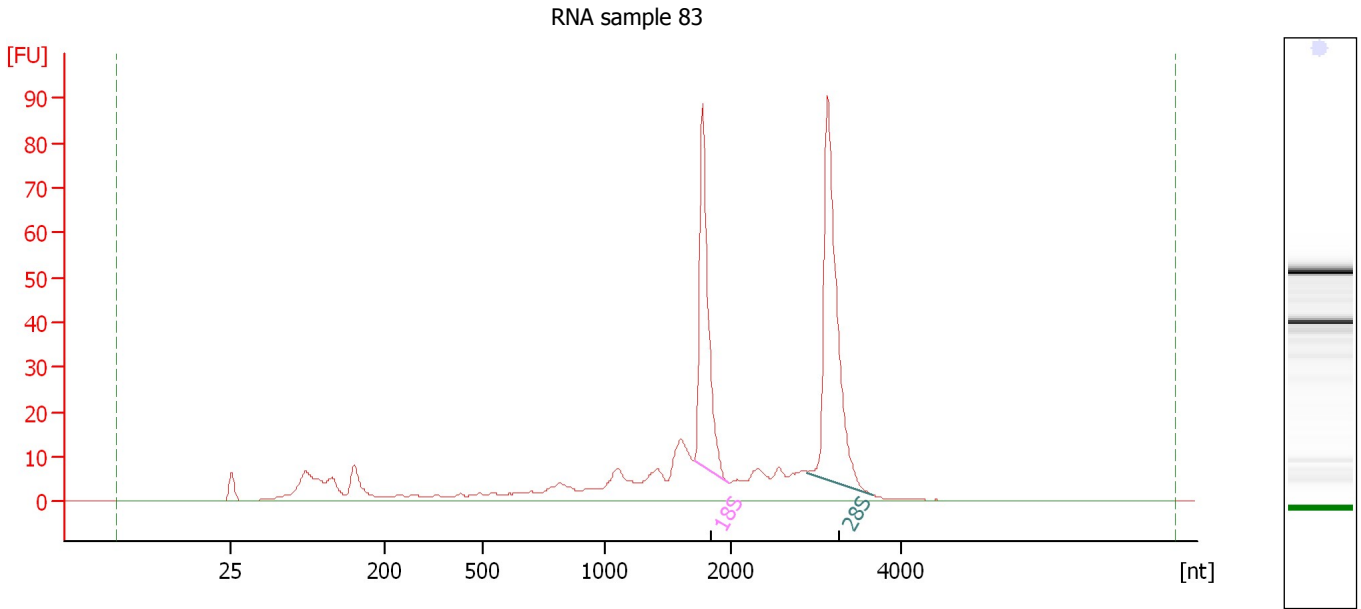
Fragment table for sample 4 : RNA sample 82

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	1,963	162.6	16.8
28S	2,909	3,722	247.0	25.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RNA sample 83

RNA Area: 459.7 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 400 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.80

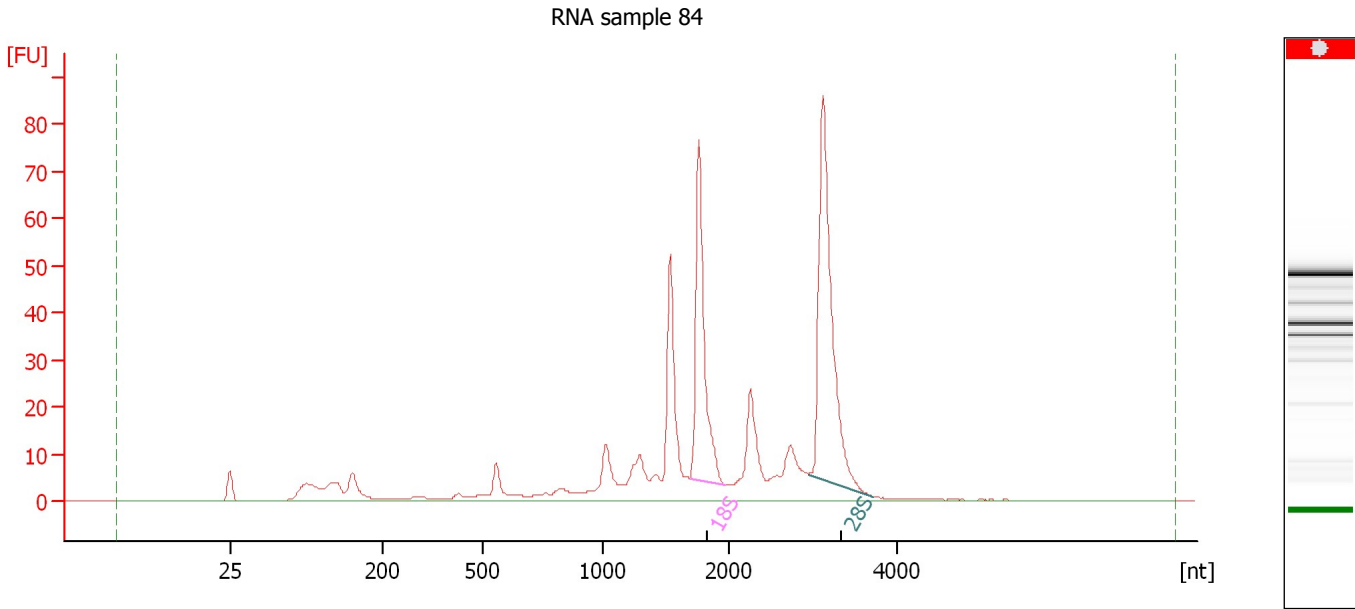
Fragment table for sample 5 : RNA sample 83

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,704	1,971	80.5	17.5
28S	2,897	3,671	112.0	24.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : RNA sample 84

RNA Area:	444.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	387 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN N/A

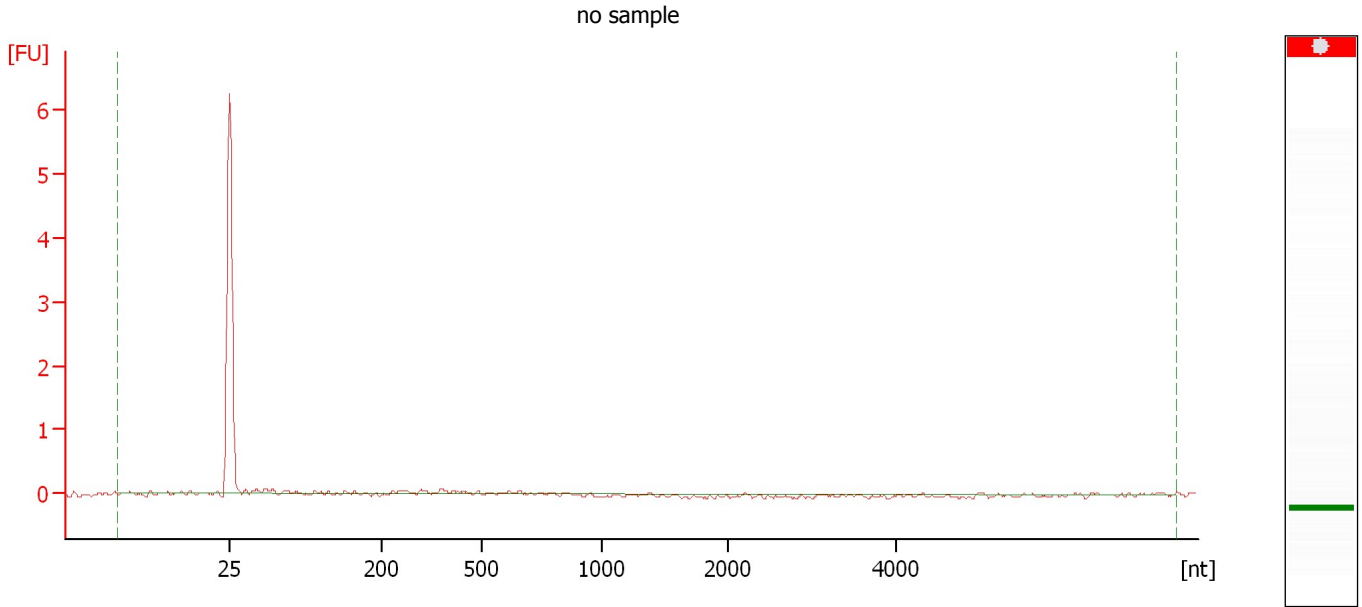
Fragment table for sample 6 : RNA sample 84

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	1,962	72.1	16.2
28S	2,936	3,699	105.2	23.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



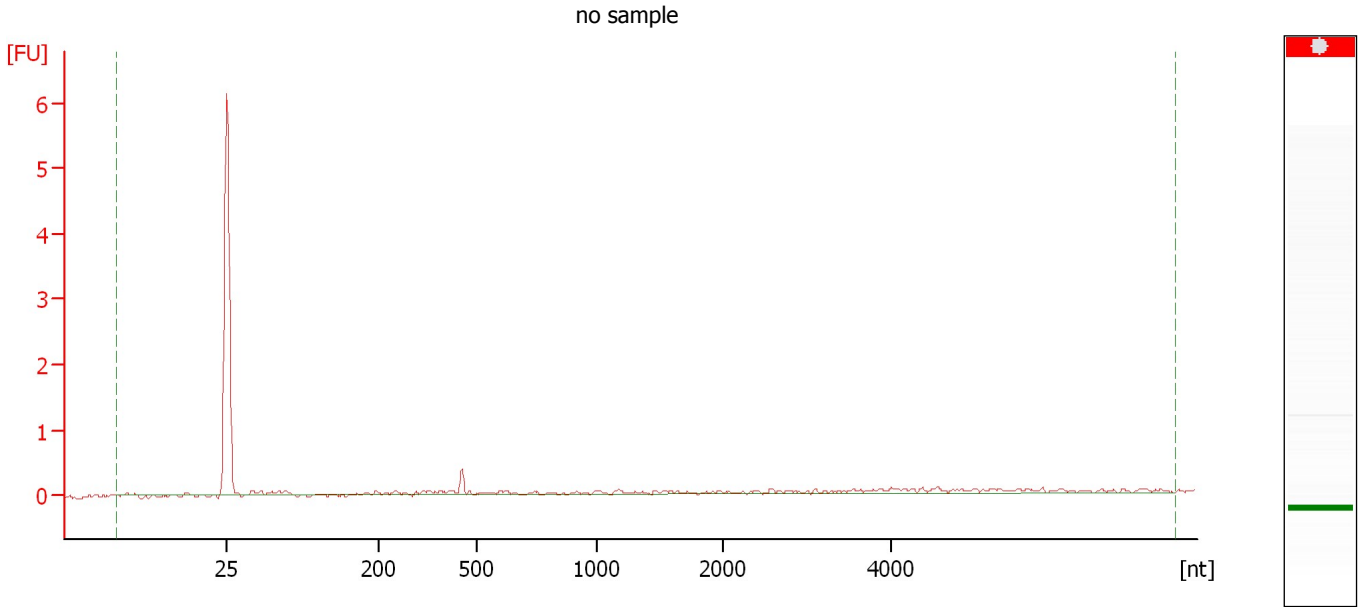
Overall Results for sample 7 : no sample

RNA Area:	1.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 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\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



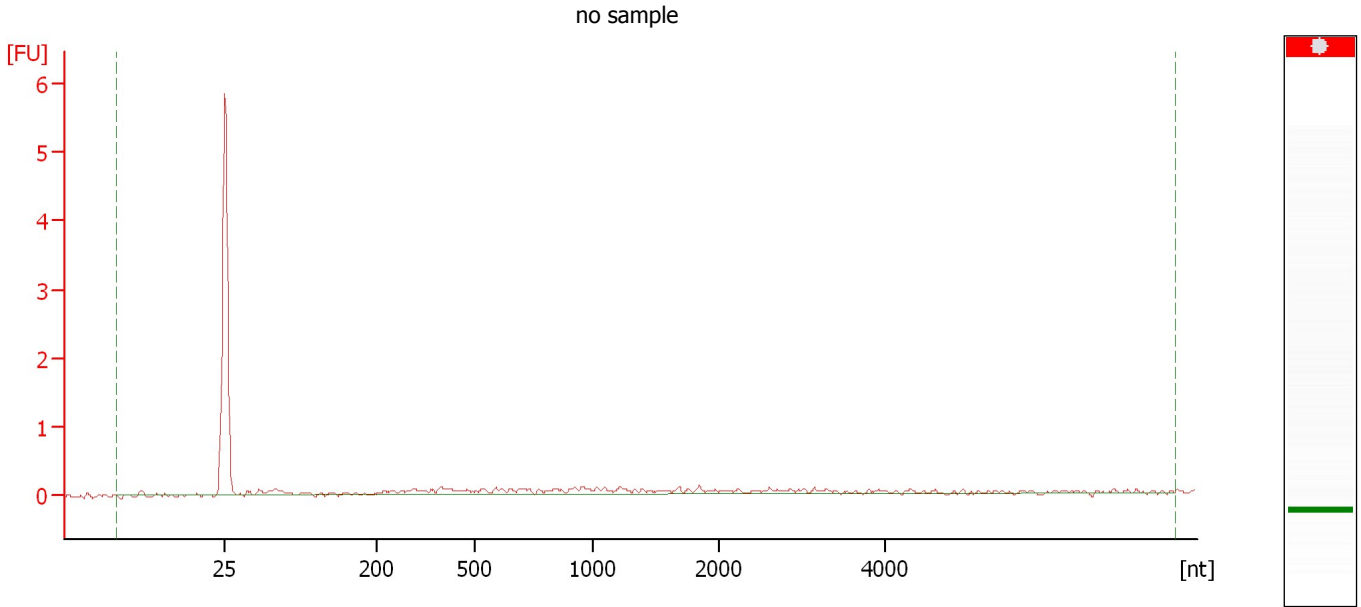
Overall Results for sample 8 : no sample

RNA Area:	3.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/ μ l	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\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



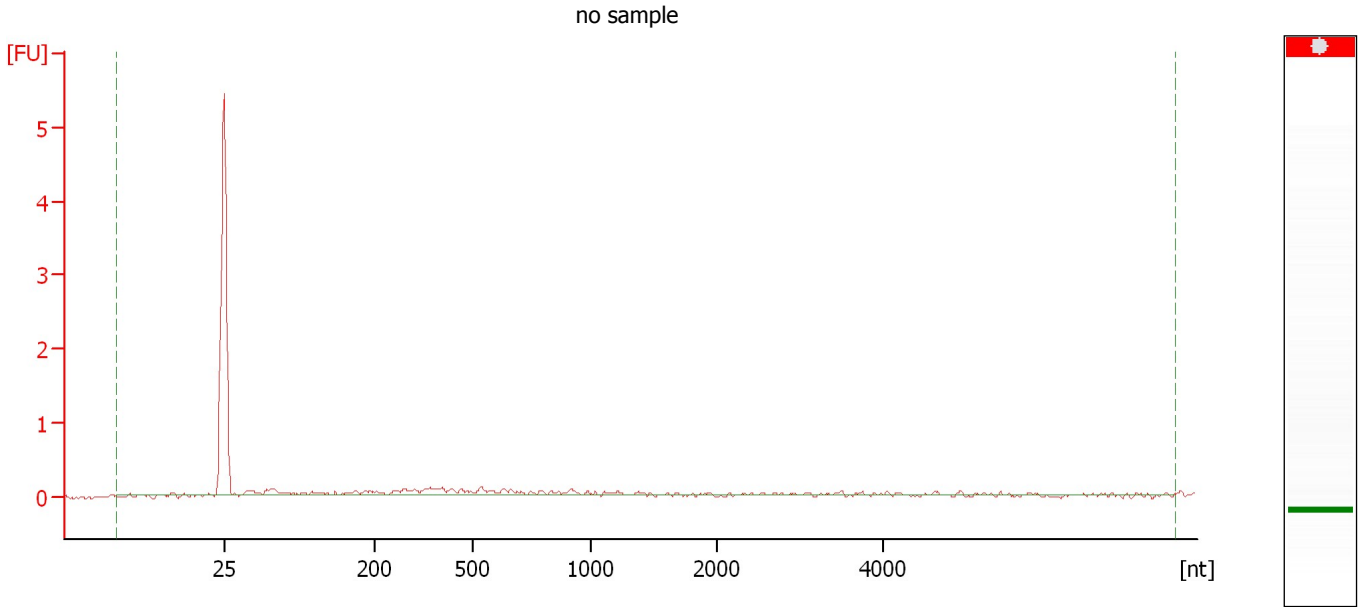
Overall Results for sample 9 : no sample

RNA Area:	3.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 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\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



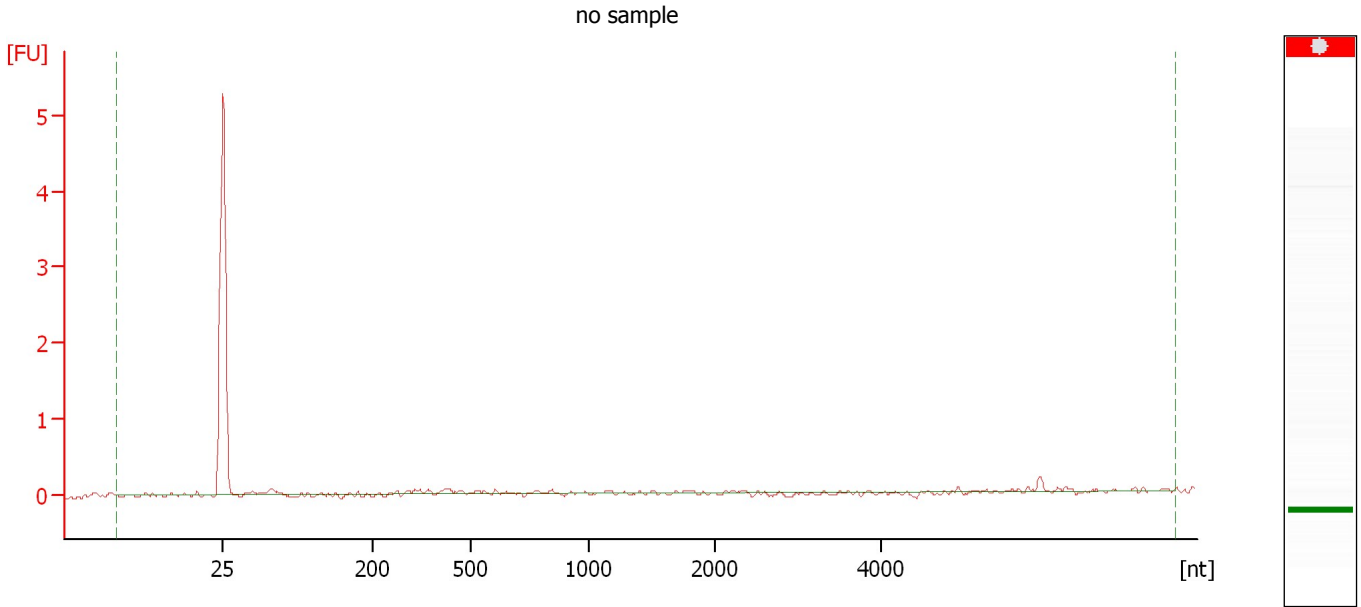
Overall Results for sample 10 : no sample

RNA Area:	3.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 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\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



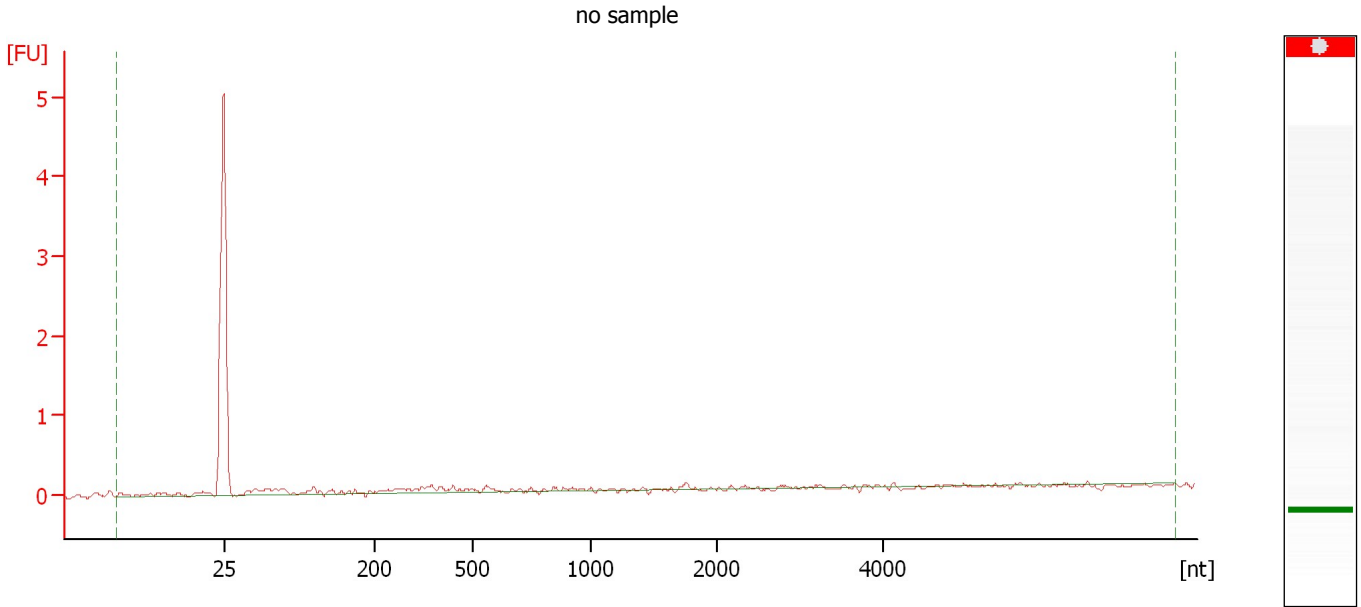
Overall Results for sample 11 : no sample

RNA Area:	1.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 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\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Electropherogram Summary Continued ...



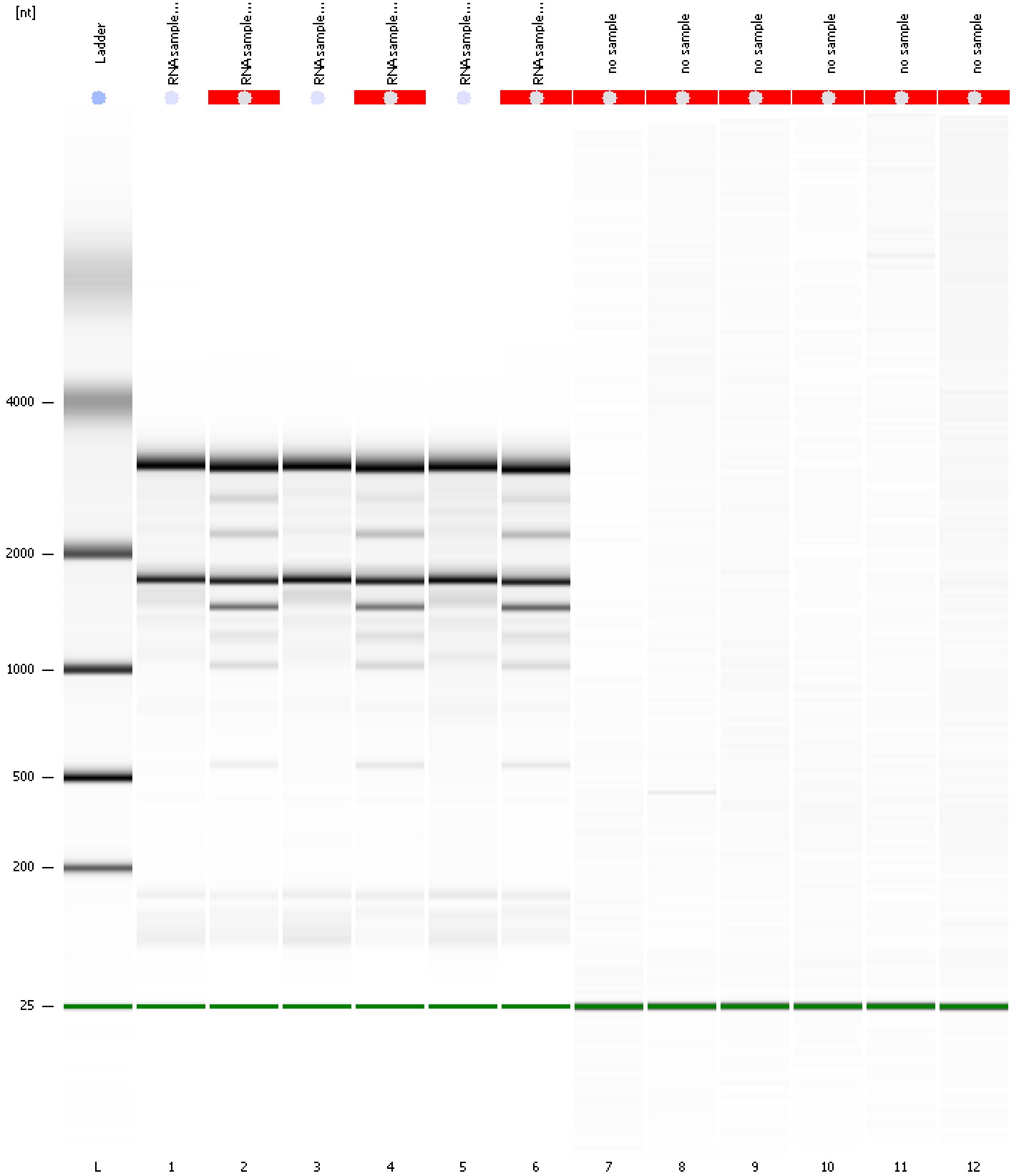
Overall Results for sample 12 : no sample

RNA Area:	2.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 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\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
Modified: 8/27/2013 3:03:43 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-27\2013-08-27_006.xad

Created: 8/27/2013 2:40:39 PM
 Modified: 8/27/2013 3:03:43 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 3:03:43 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_006.xad)		Instrument	Run		8/27/2013 2:40:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/27/2013 2:40:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/27/2013 2:40:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/27/2013 2:40:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/27/2013 2:40:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/27/2013 2:40:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/27/2013 2:40:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1