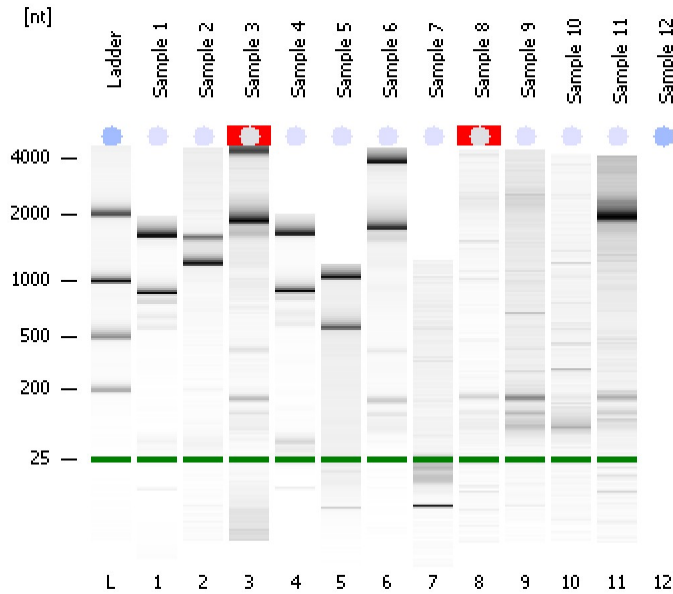


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 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

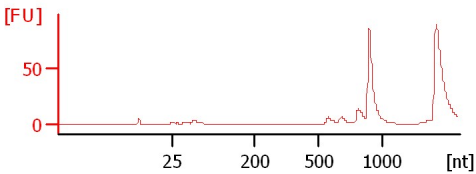
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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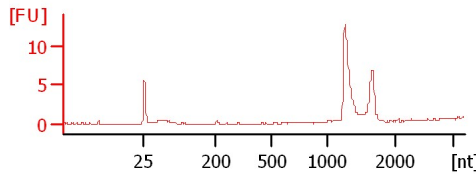
Chip Information:

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

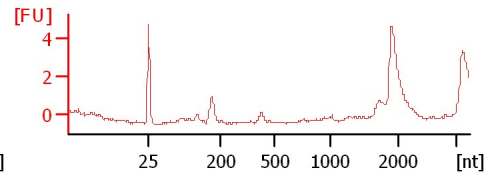
Sample 1
RIN: 9.90



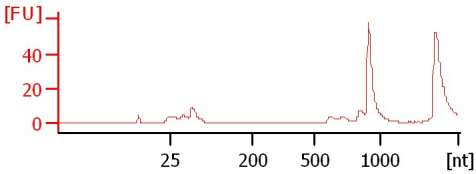
Sample 2
RIN: 9.90



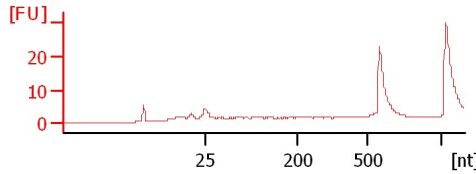
Sample 3
RIN N/A



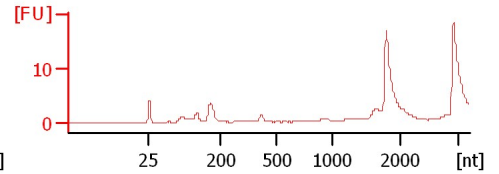
Sample 4
RIN: 10



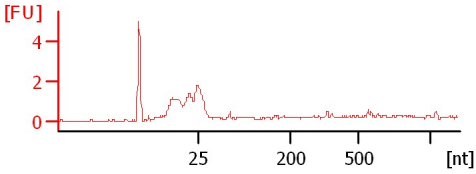
Sample 5
RIN: 7.40



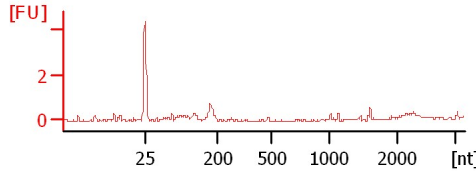
Sample 6
RIN: 7.30



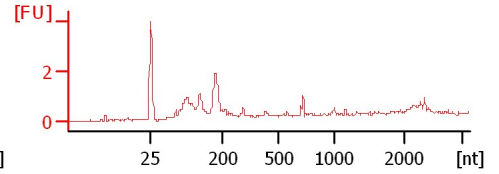
Sample 7
RIN: 5.50



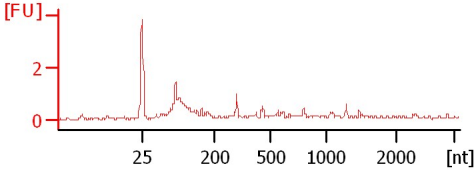
Sample 8
RIN N/A



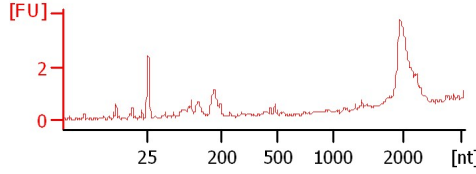
Sample 9
RIN: 3



Sample 10
RIN: 2.70



Sample 11
RIN: 2.60



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
 Modified: 5/7/2013 11:27:30 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 9.90	
Sample 2		✓	RIN: 9.90	
Sample 3		✓	RIN N/A	
Sample 4		✓	RIN:10	
Sample 5		✓	RIN: 7.40	
Sample 6		✓	RIN: 7.30	
Sample 7		✓	RIN: 5.50	
Sample 8		✓	RIN N/A	
Sample 9		✓	RIN:3	
Sample 10		✓	RIN: 2.70	
Sample 11		✓	RIN: 2.60	
Sample 12				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 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

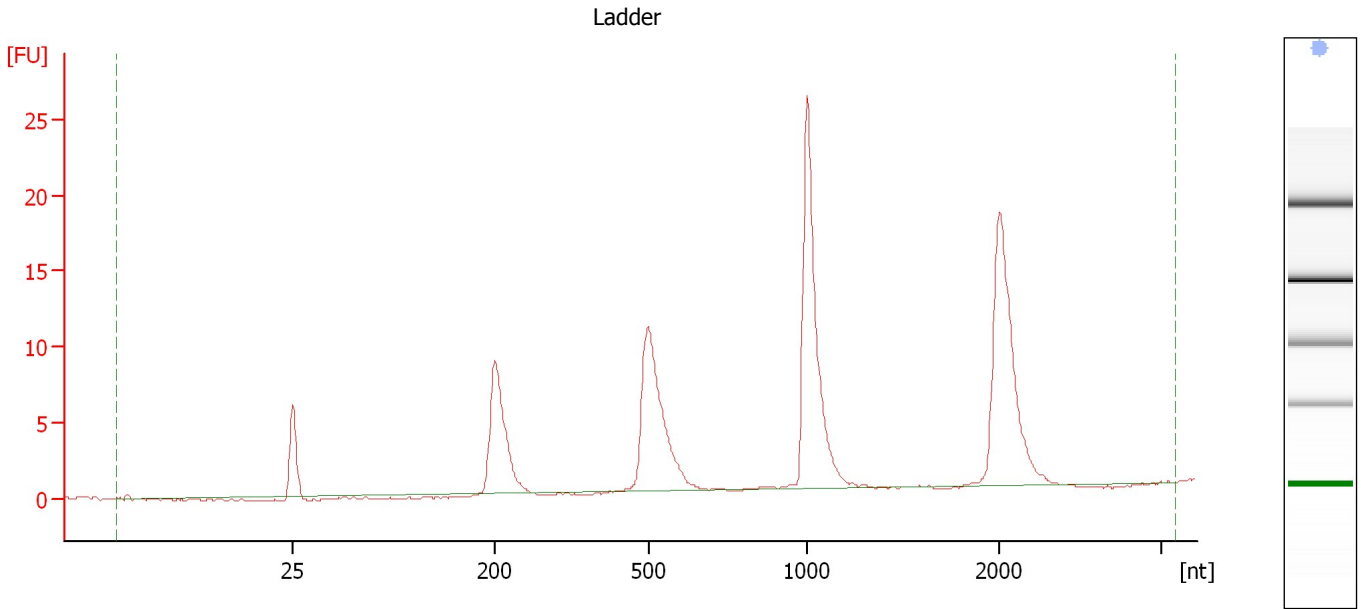
Ladder

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\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary



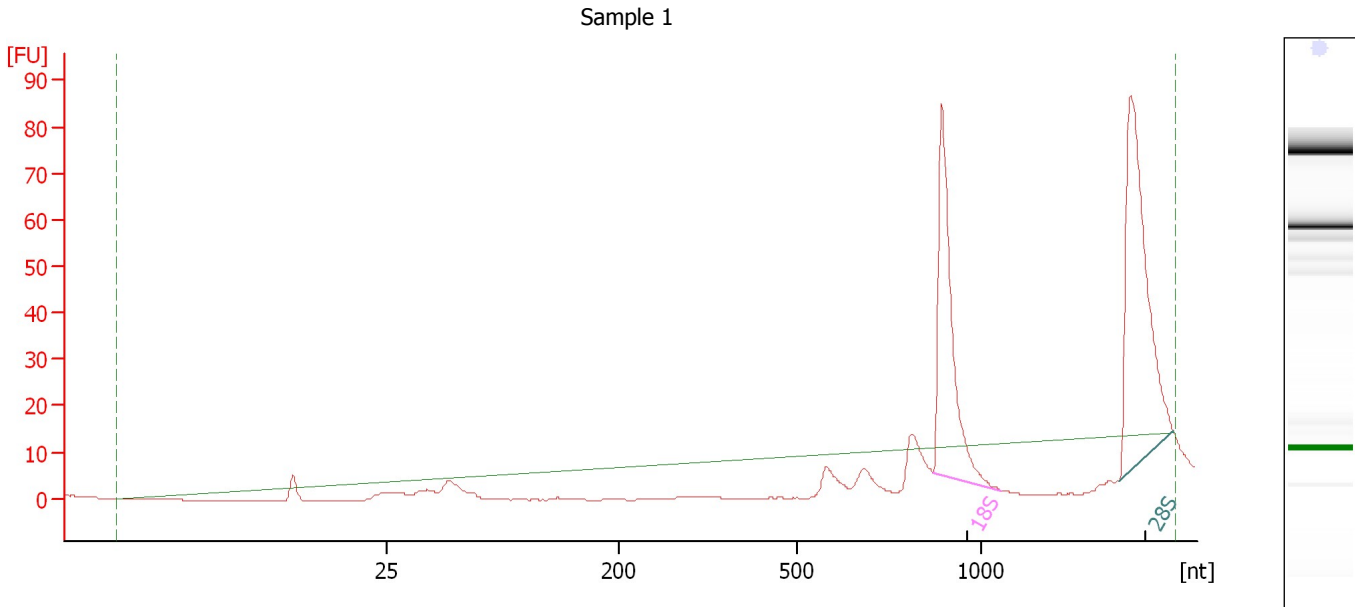
Overall Results for Ladder

RNA Area:	111.9	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\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
 Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	190.4	RNA Integrity Number (RIN):	9.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	255 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 9.90

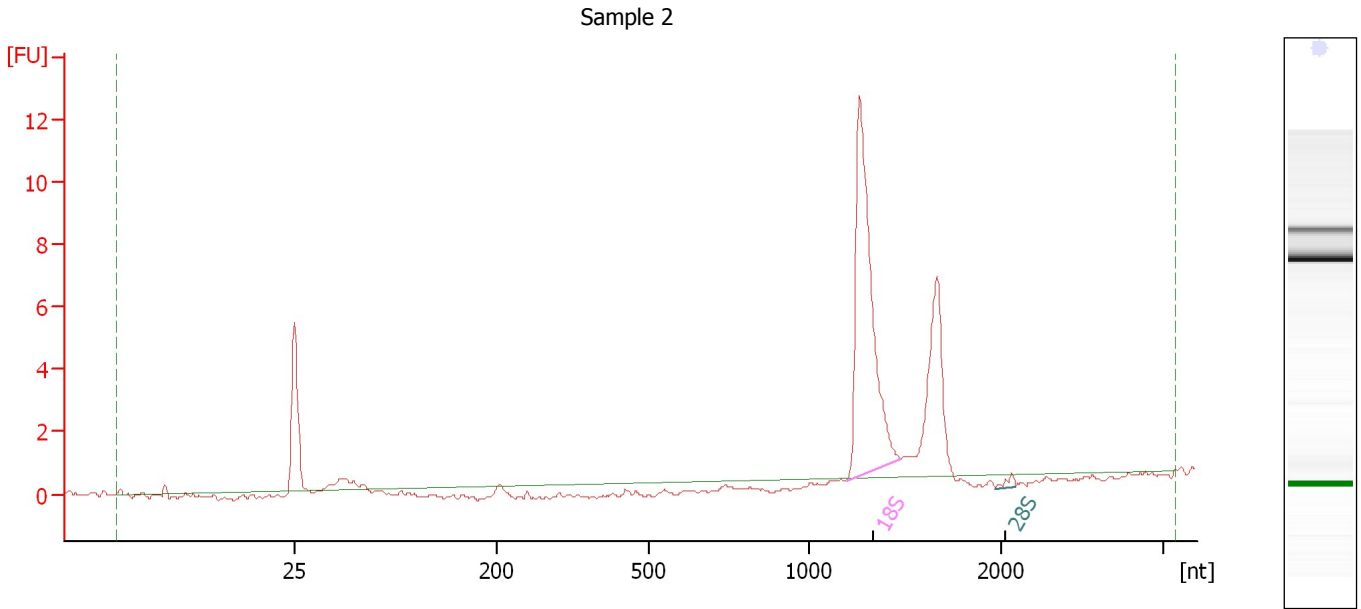
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	871	1,094	96.0	50.4
28S	1,617	1,862	129.2	67.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
 Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	30.9	RNA Integrity Number (RIN):	9.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	41 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 9.90

Fragment table for sample 2 : Sample 2

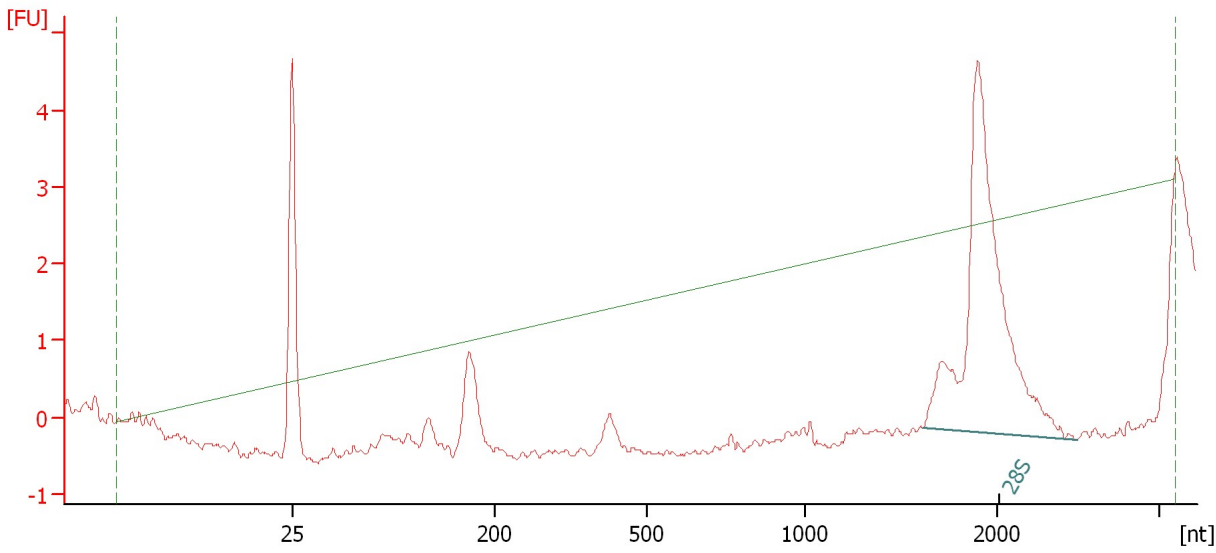
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,194	1,472	18.5	60.0
28S	1,965	2,169	0.3	0.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 3 : Sample 3

RNA Area:	2.2	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

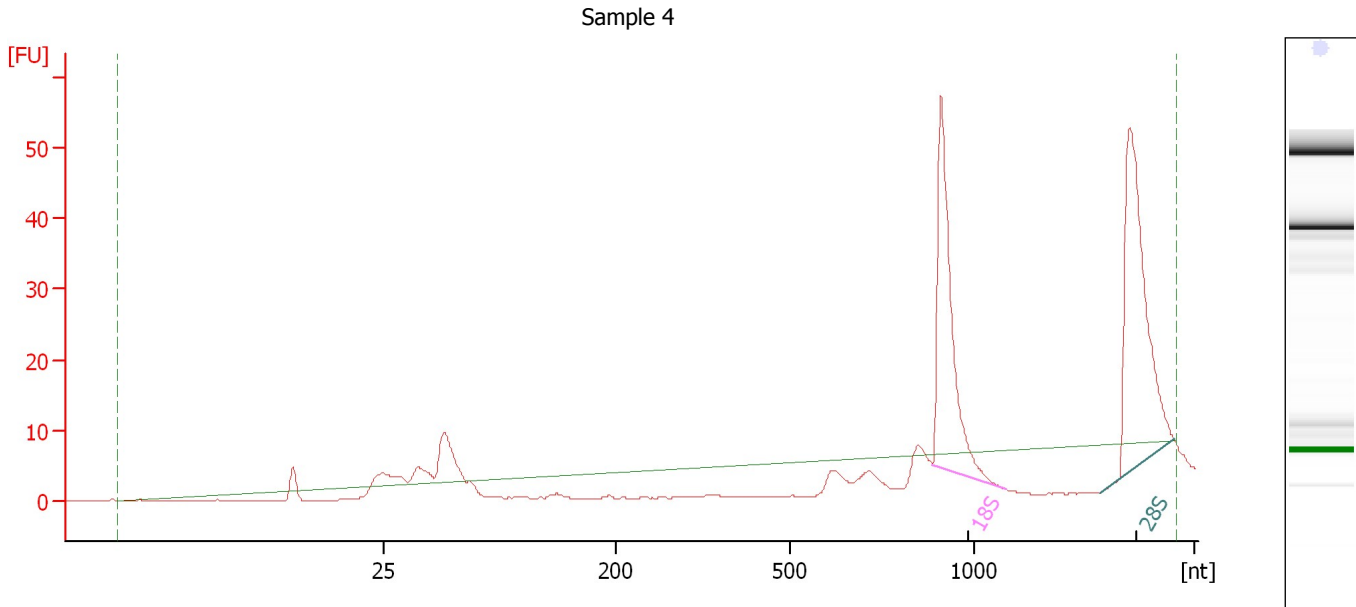
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,611	2,984	14.2	655.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	152.2	RNA Integrity Number (RIN):	10 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	204 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN:10

Fragment table for sample 4 : Sample 4

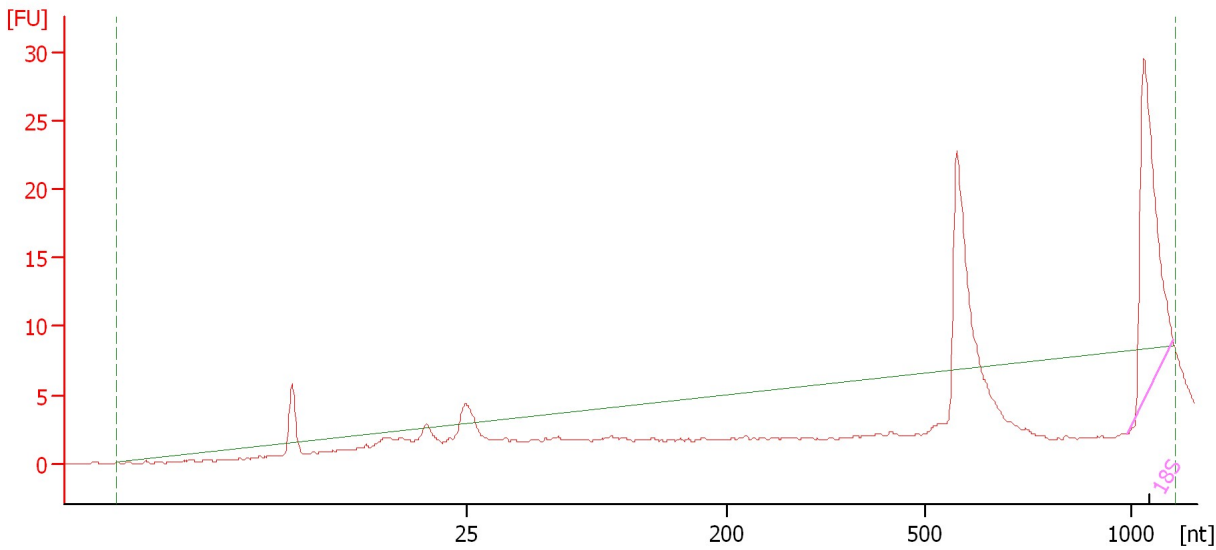
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	886	1,145	66.1	43.4
28S	1,570	1,904	78.4	51.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

RNA Area:	45.1	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	60 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.40

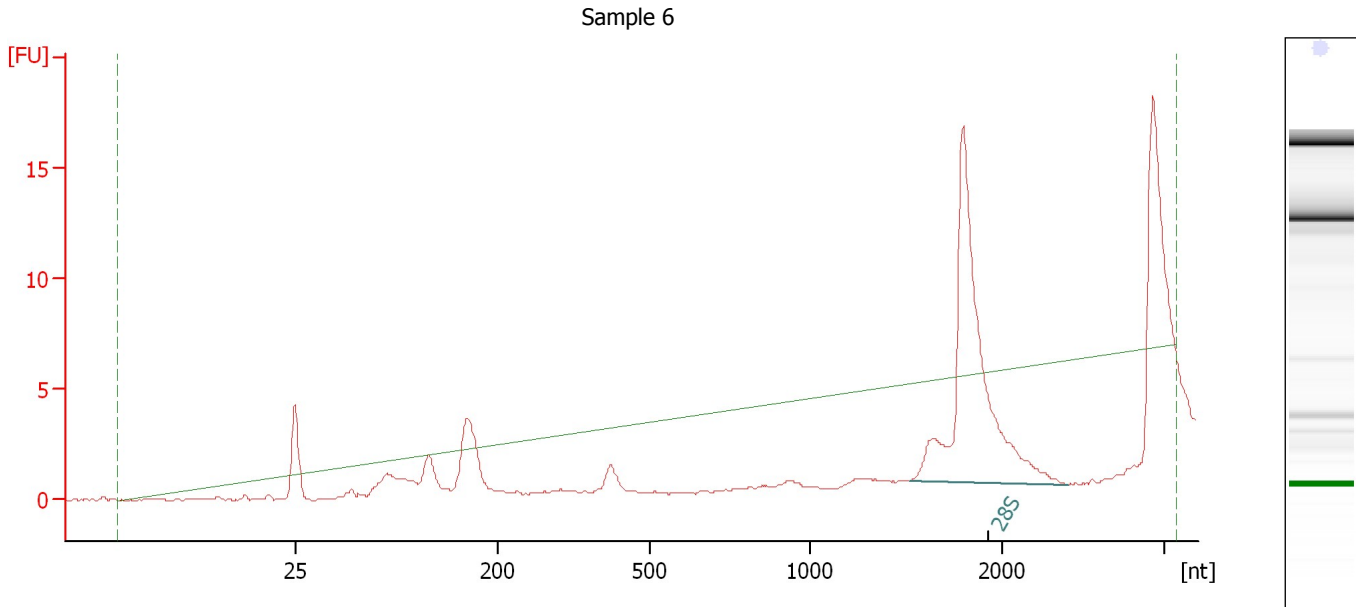
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	993	1,170	29.5	65.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	23.5	RNA Integrity Number (RIN):	7.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	32 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 7.30

Fragment table for sample 6 : Sample 6

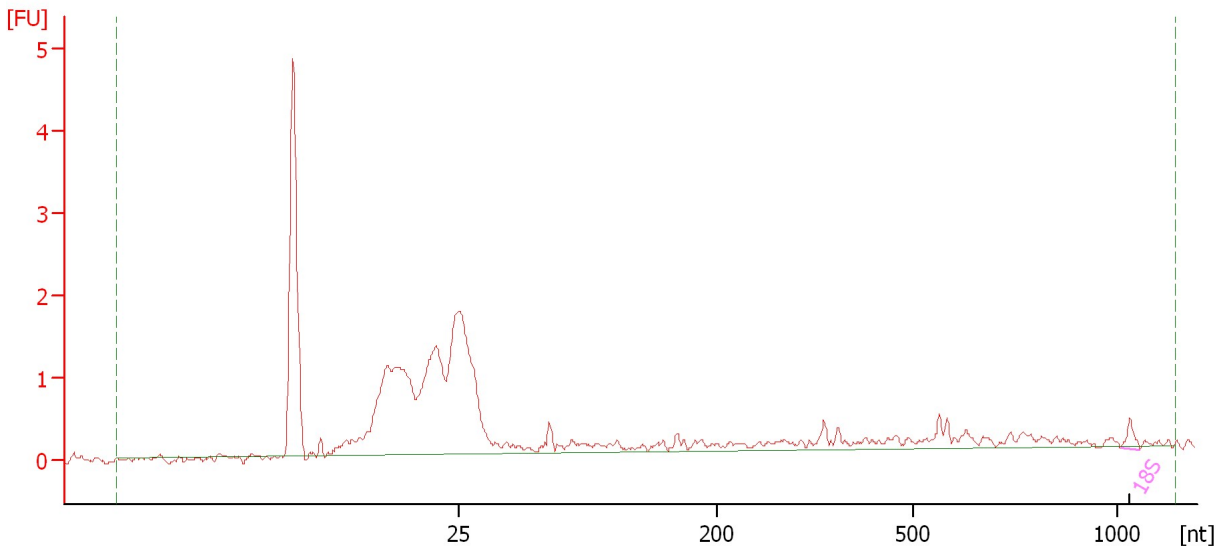
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	1,516	2,803	35.6	151.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

RNA Area:	24.8	RNA Integrity Number (RIN):	5.5 (B.02.08)
RNA Concentration:	33 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.50

Fragment table for sample 7 : Sample 7

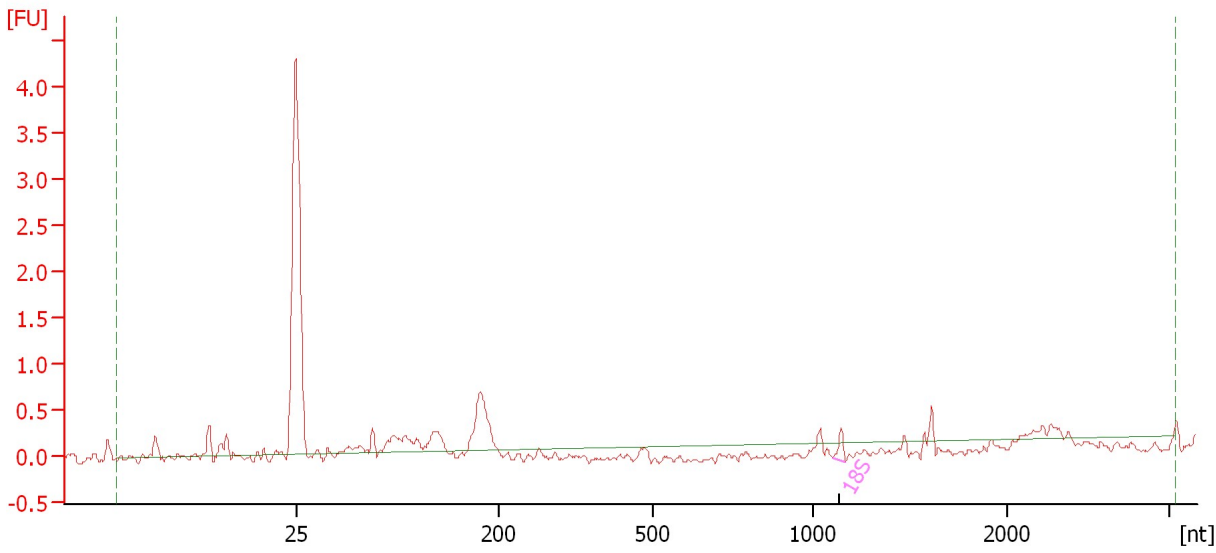
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,015	1,094	0.2	0.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

RNA Area:	4.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 8 : Sample 8

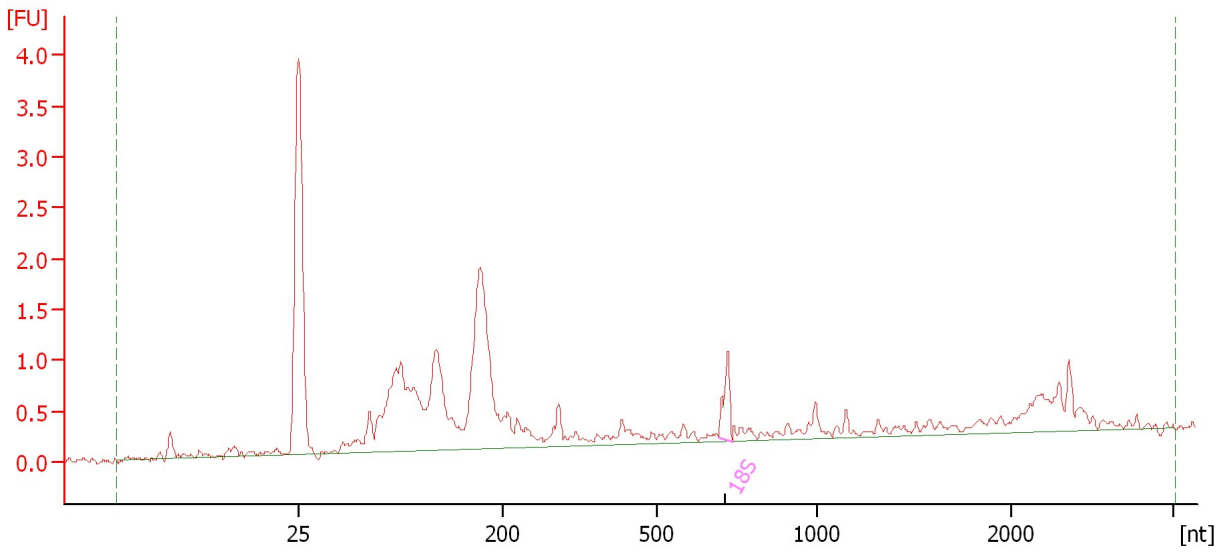
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,101	1,167	0.2	3.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

RNA Area:	19.6	RNA Integrity Number (RIN):	3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	26 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:3

Fragment table for sample 9 : Sample 9

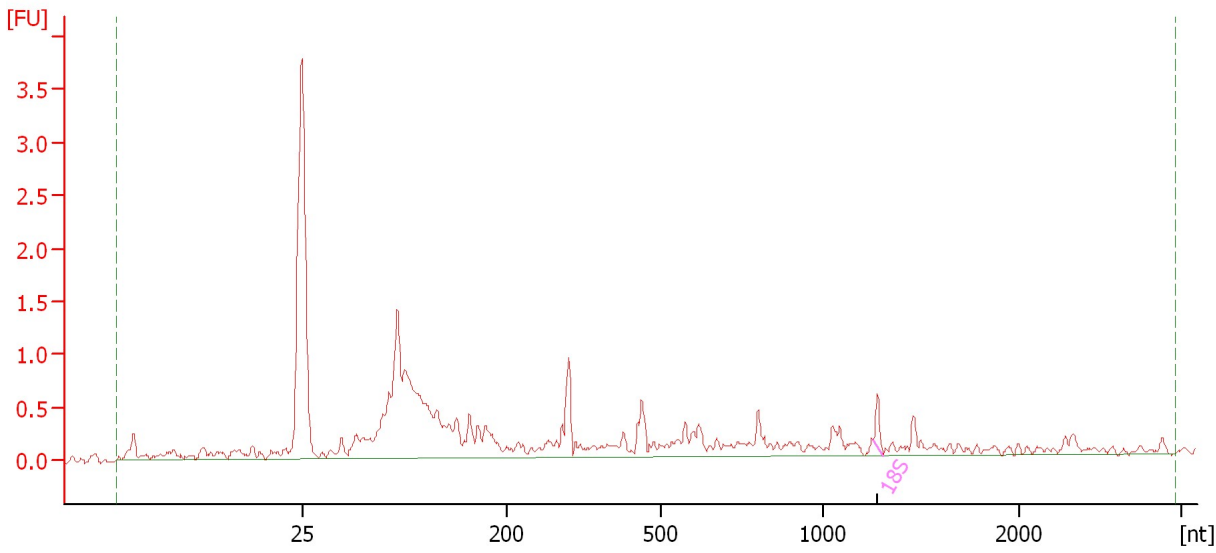
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	692	736	0.6	3.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

RNA Area:	17.4	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	23 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

Fragment table for sample 10 : Sample 10

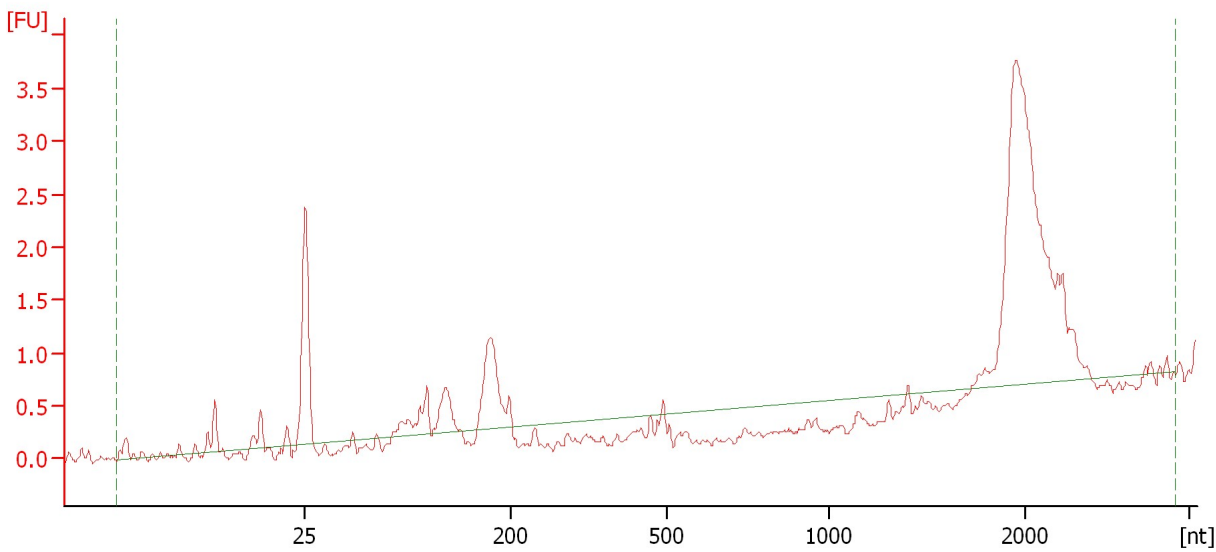
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,252	1,307	0.2	1.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Electropherogram Summary Continued ...

Sample 11



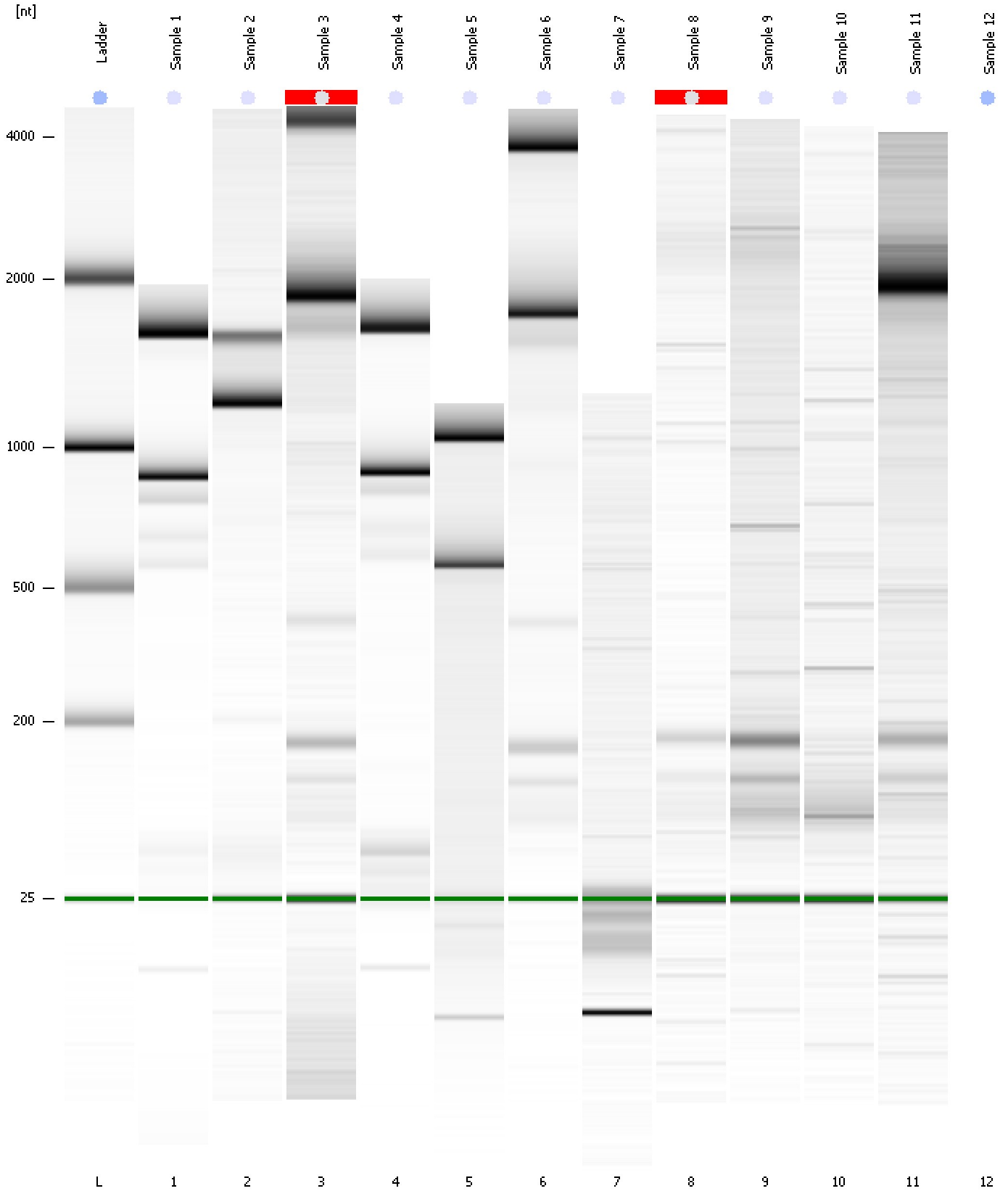
Overall Results for sample 11 : Sample 11

RNA Area:	14.9	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	20 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
Modified: 5/7/2013 11:27:30 AM

Invalid Samples

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad

Created: 5/7/2013 10:45:03 AM
 Modified: 5/7/2013 11:27:30 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		5/7/2013 11:07:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-07\2013-05-07_001.xad)		Instrument	Run		5/7/2013 10:45:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/7/2013 10:45:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/7/2013 10:45:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/7/2013 10:45:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/7/2013 10:45:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/7/2013 10:45:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/7/2013 10:45:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1