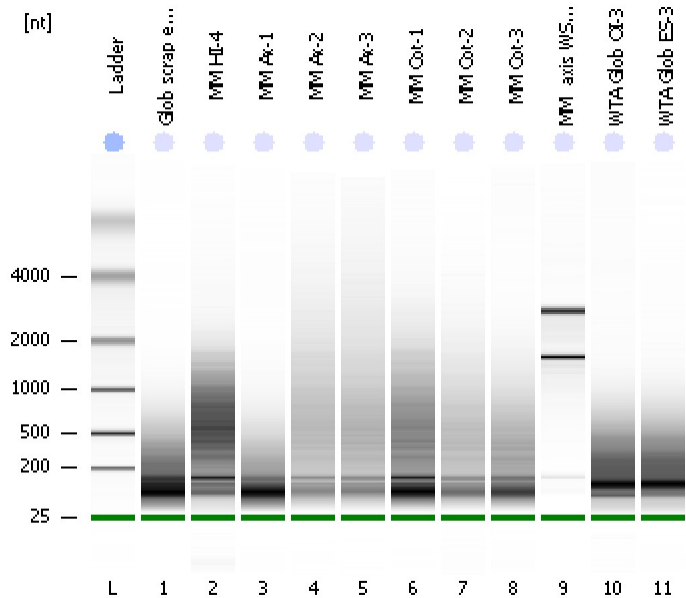


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
 Modified: 4/22/2013 11:55:00 AM

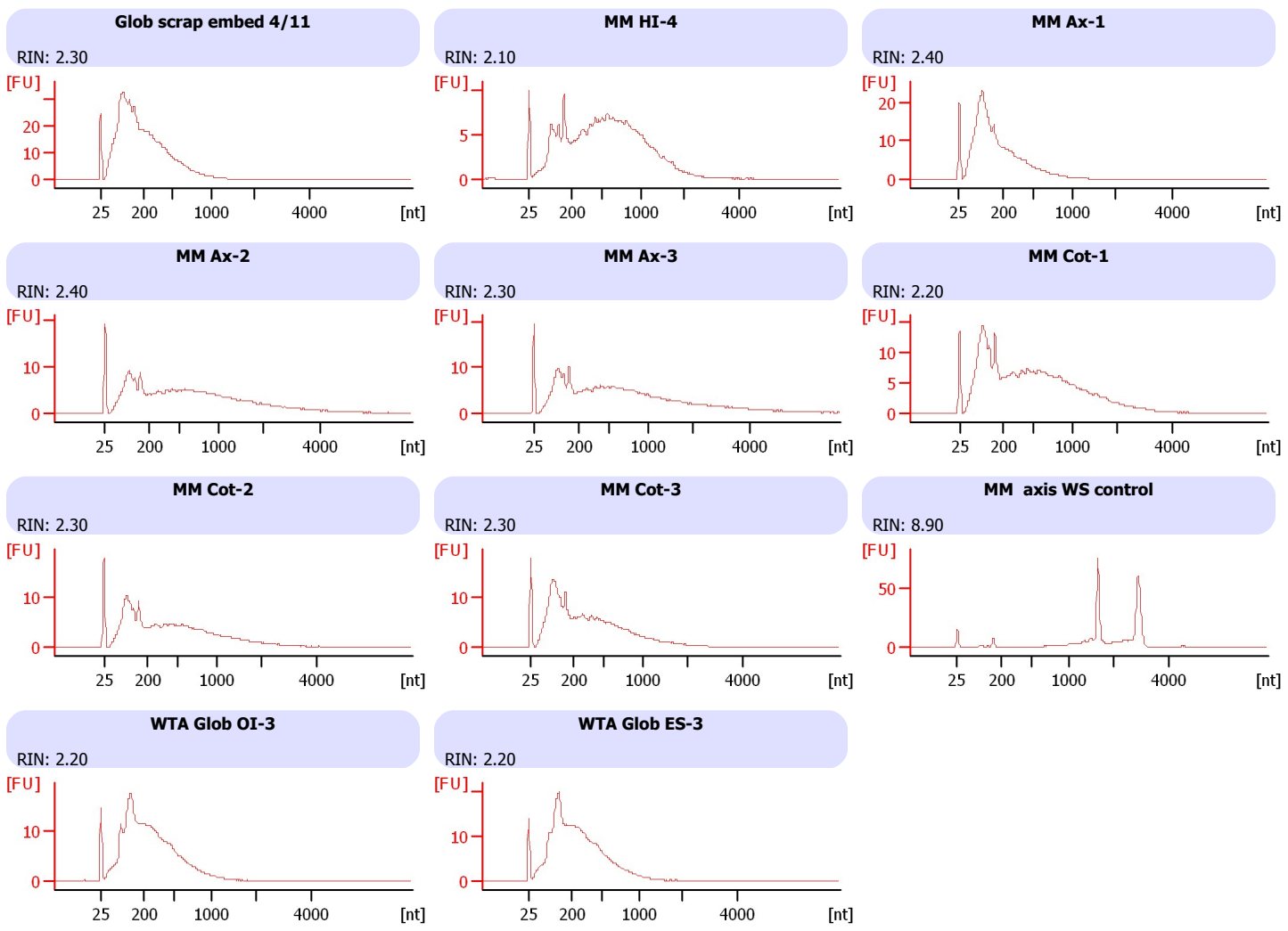
Electrophoresis File Run Summary



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 Pico Series II.xsy
 Assay Class: Eukaryote Total RNA Pico
 Version: 2.6
 Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
 © Copyright 2003 - 2009 Agilent Technologies, Inc.

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



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Glob scrap embed 4/11		✓	RIN: 2.30	
MM HI-4		✓	RIN: 2.10	
MM Ax-1		✓	RIN: 2.40	
MM Ax-2		✓	RIN: 2.40	
MM Ax-3		✓	RIN: 2.30	
MM Cot-1		✓	RIN: 2.20	
MM Cot-2		✓	RIN: 2.30	
MM Cot-3		✓	RIN: 2.30	
MM axis WS control		✓	RIN: 8.90	
WTA Glob OI-3		✓	RIN: 2.20	
WTA Glob ES-3		✓	RIN: 2.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

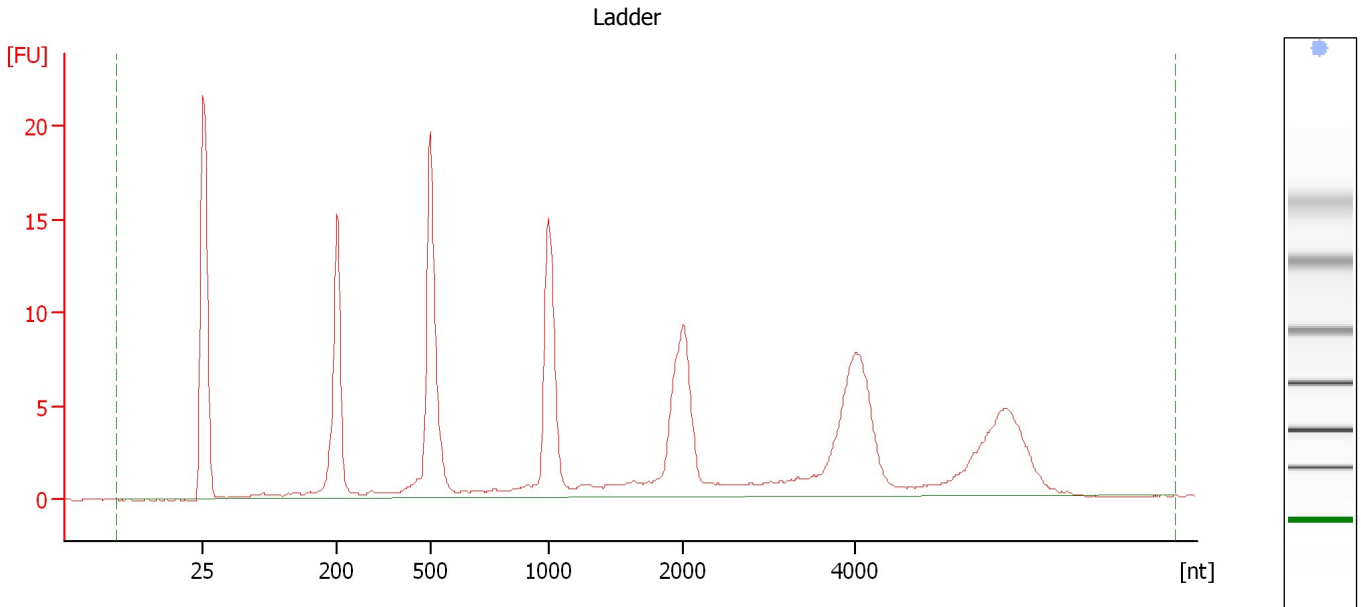
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary



Overall Results for Ladder

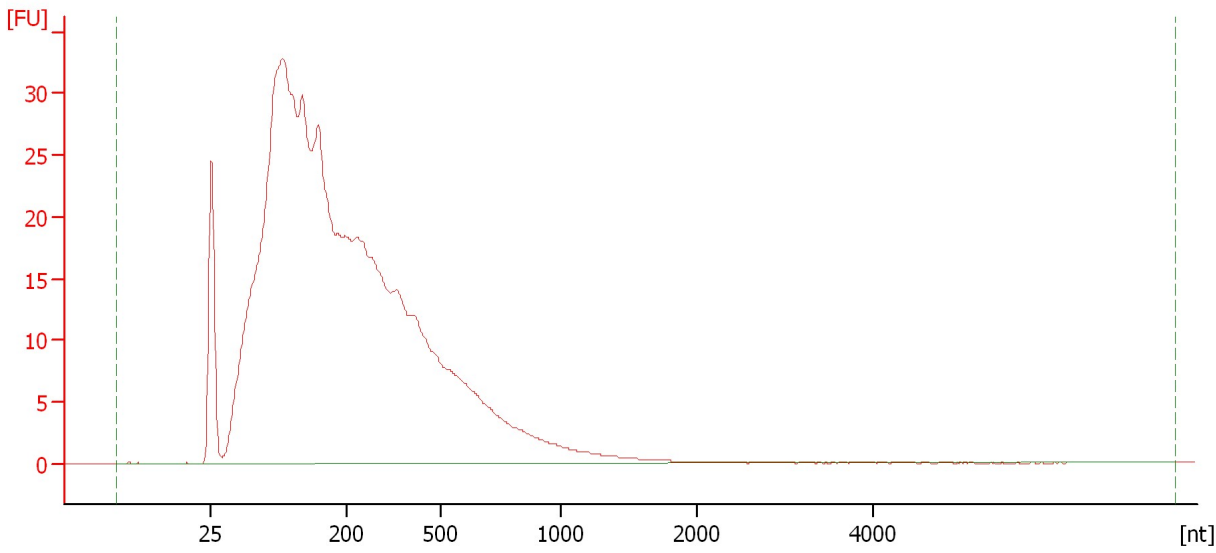
RNA Area:	166.7	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...

Glob scrap embed 4/11



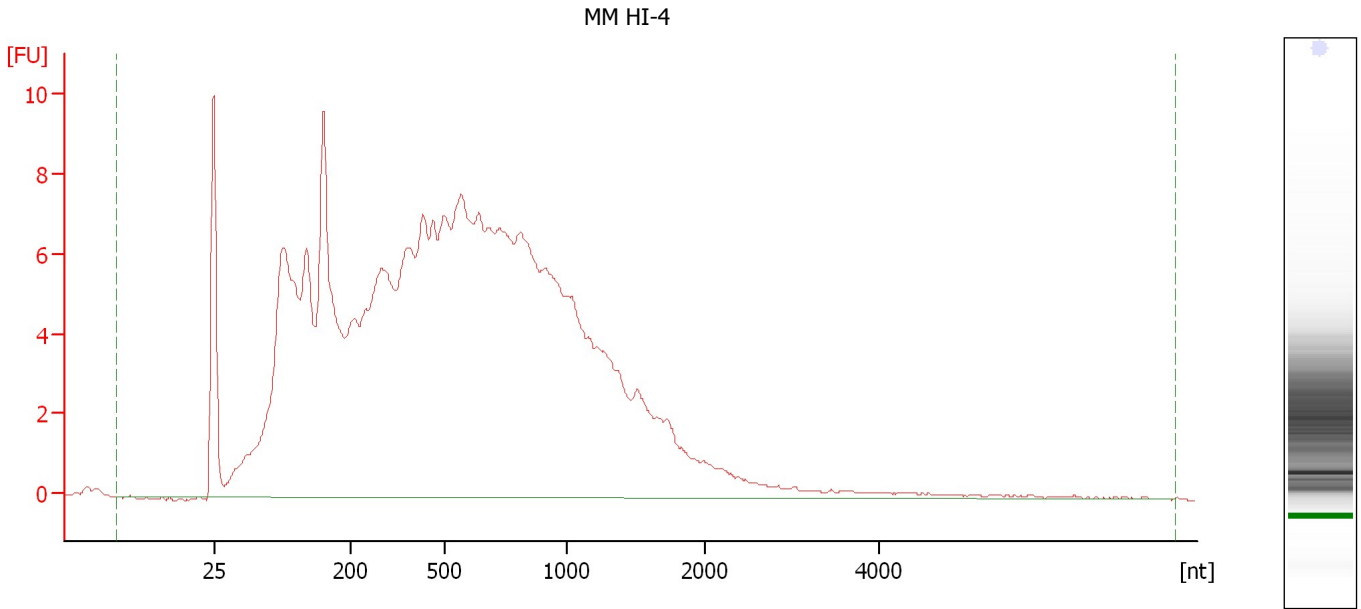
Overall Results for sample 1 : Glob scrap embed 4/11

RNA Area:	685.9	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	4,115 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



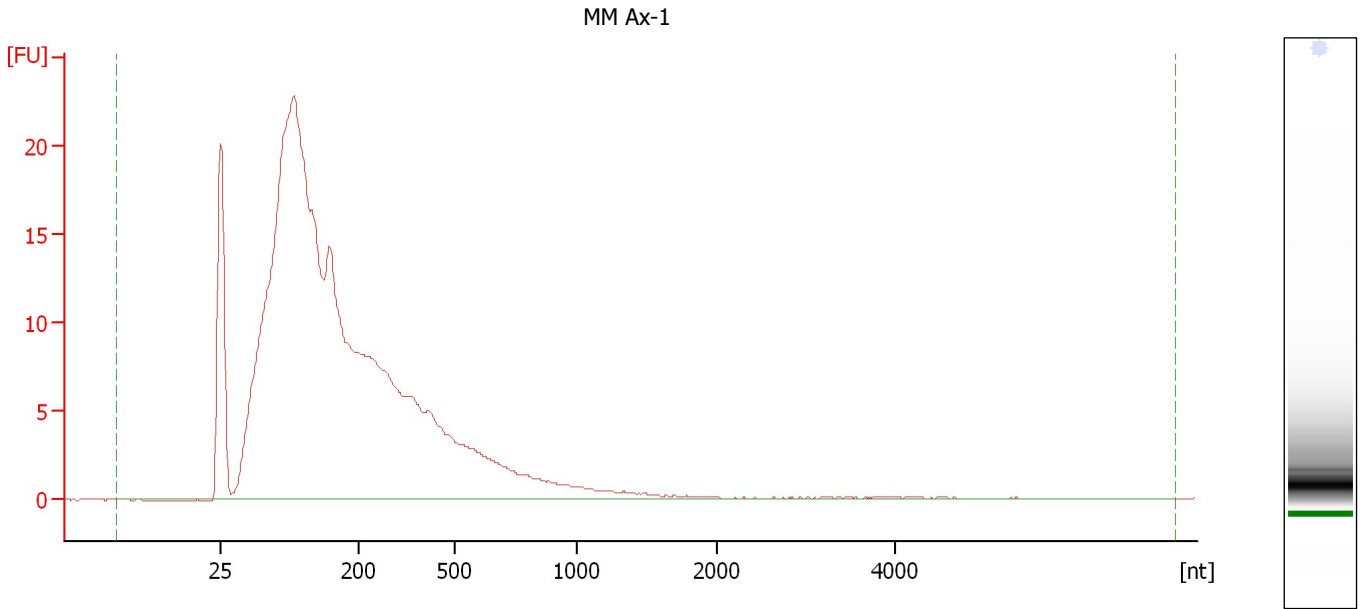
Overall Results for sample 2 : MM HI-4

RNA Area:	299.5	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	1,797 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



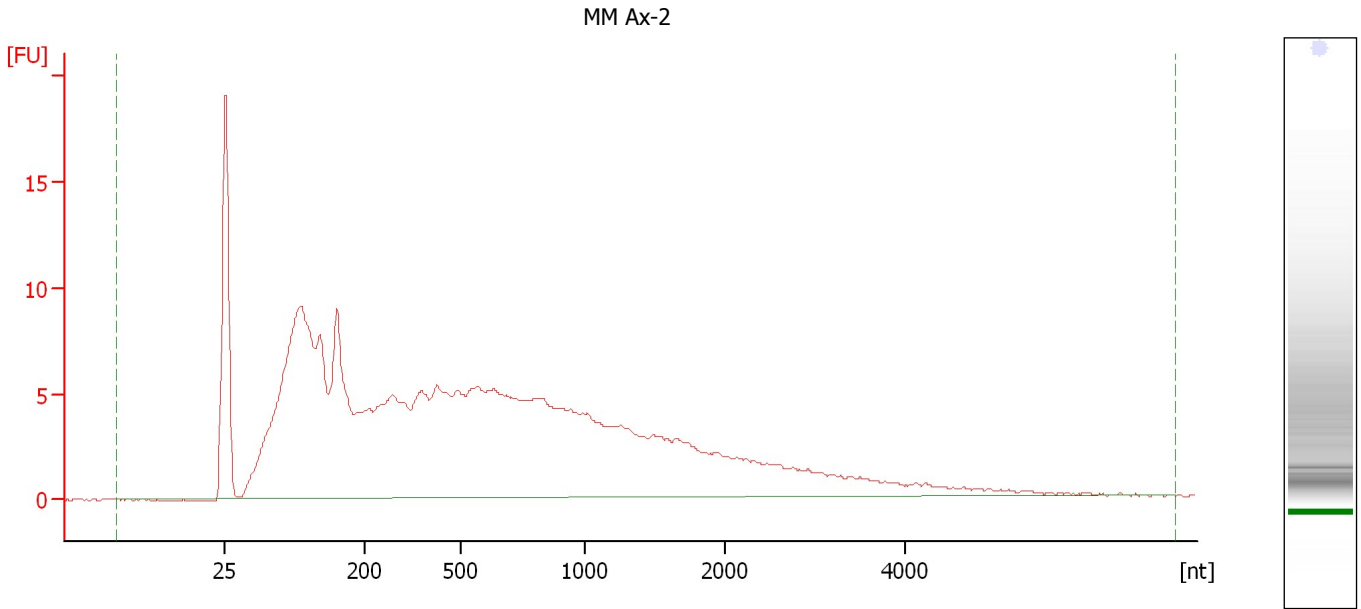
Overall Results for sample 3 : MM Ax-1

RNA Area:	373.5	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	2,241 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



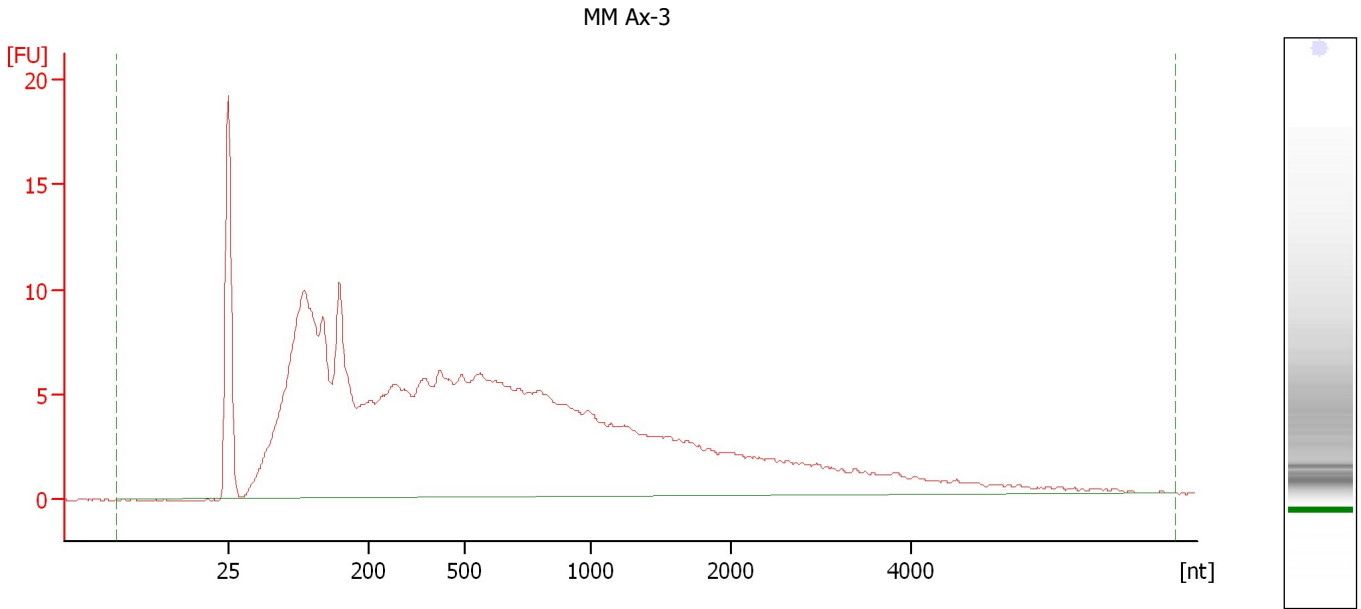
Overall Results for sample 4 : MM Ax-2

RNA Area:	305.2	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	1,831 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



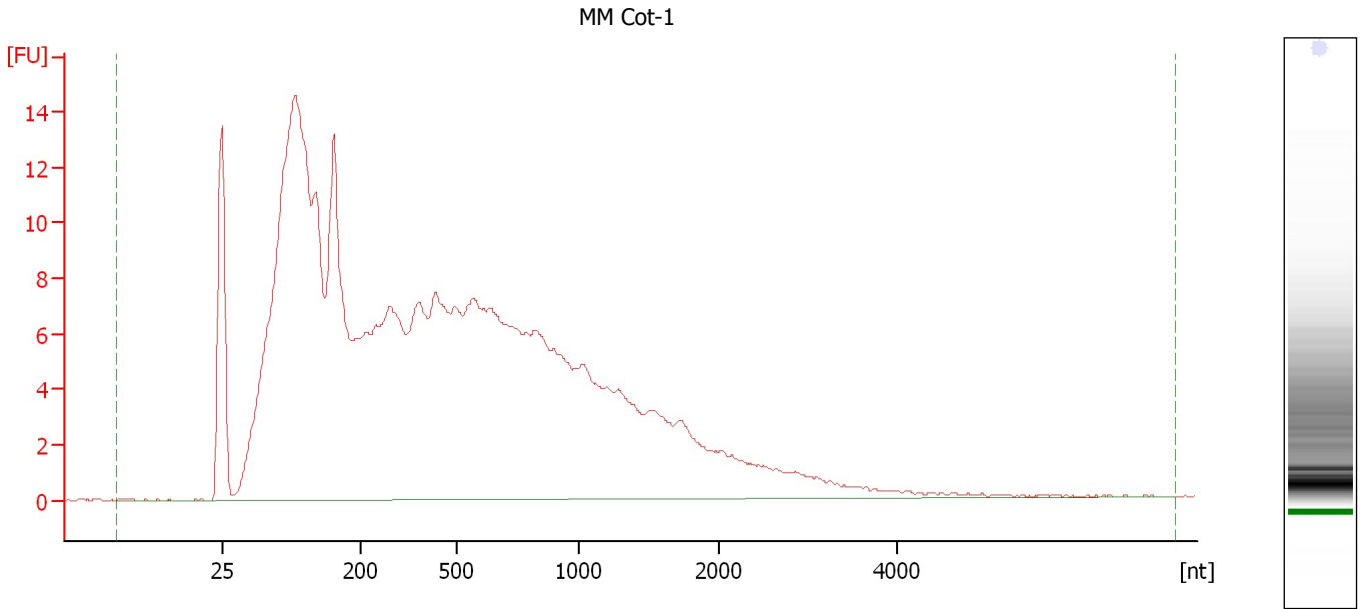
Overall Results for sample 5 : MM Ax-3

RNA Area:	328.1	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,969 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



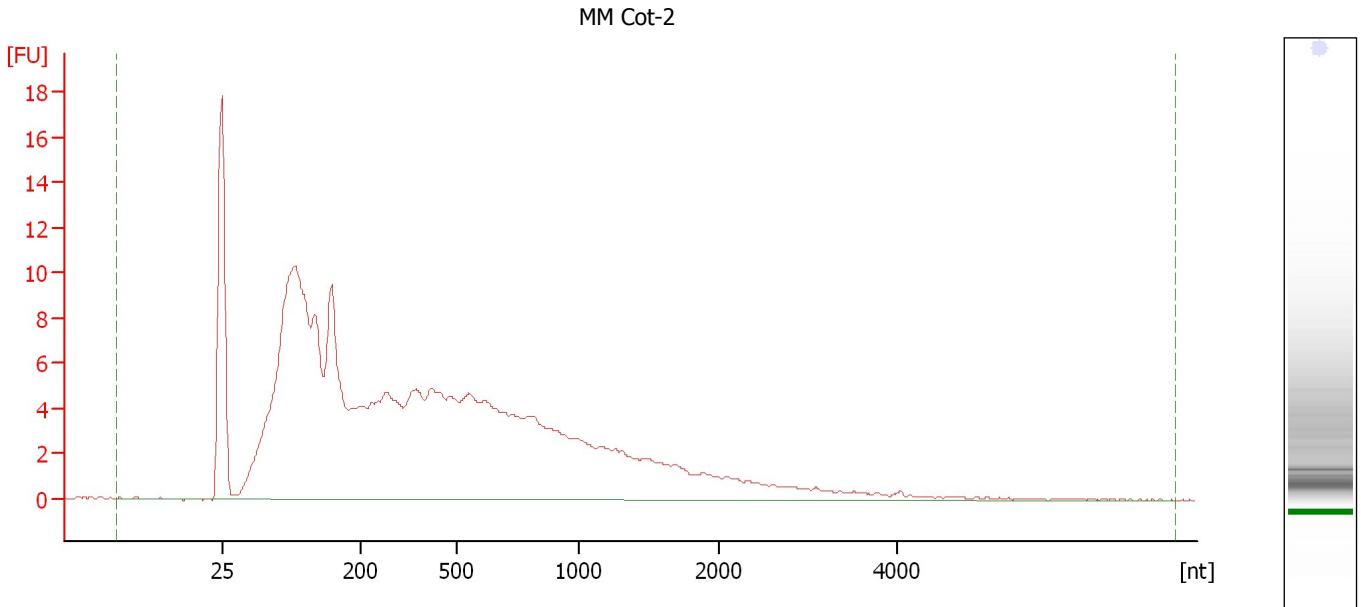
Overall Results for sample 6 : MM Cot-1

RNA Area:	408.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,448 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



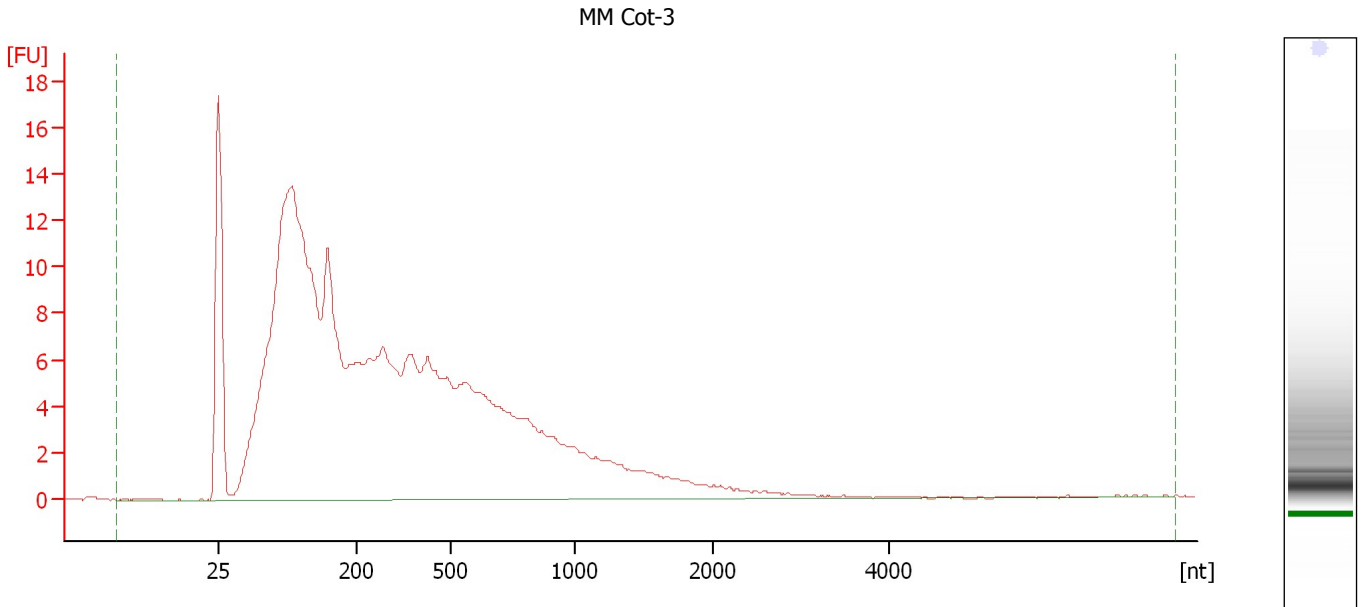
Overall Results for sample 7 : MM Cot-2

RNA Area:	264.2	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,585 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



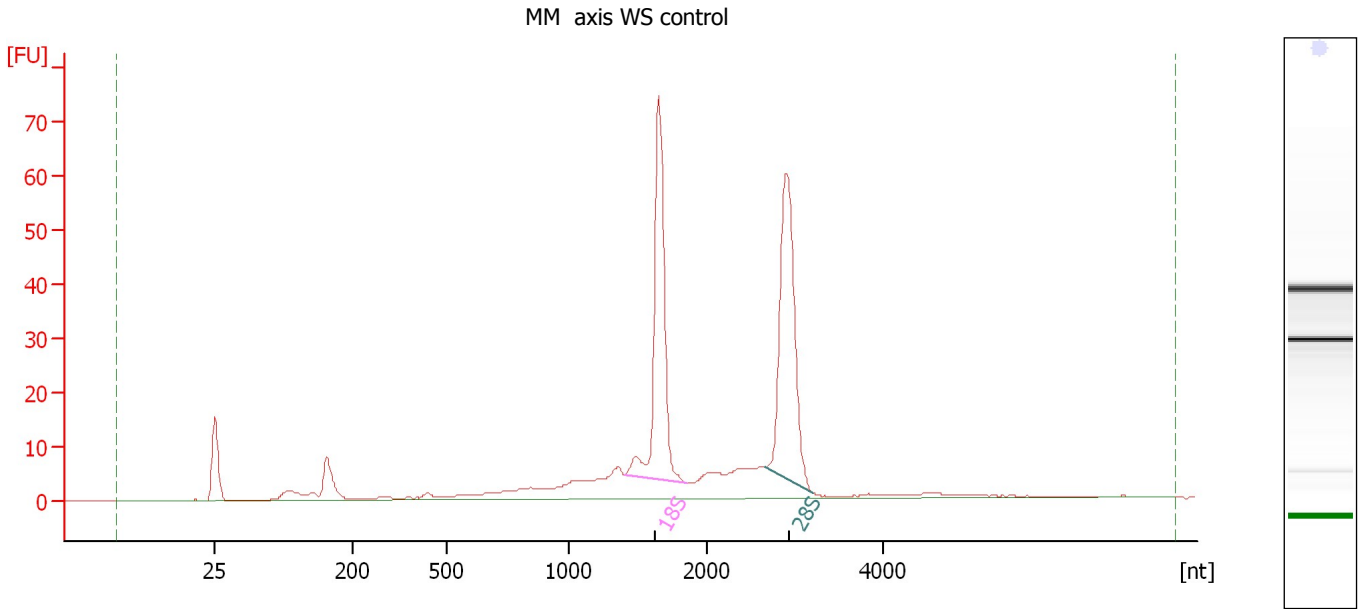
Overall Results for sample 8 : MM Cot-3

RNA Area:	307.6	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,845 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MM axis WS control

RNA Area: 335.0 RNA Integrity Number (RIN): 8.9 (B.02.08)
RNA Concentration: 2,010 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 8.90

Fragment table for sample 9 : MM axis WS control

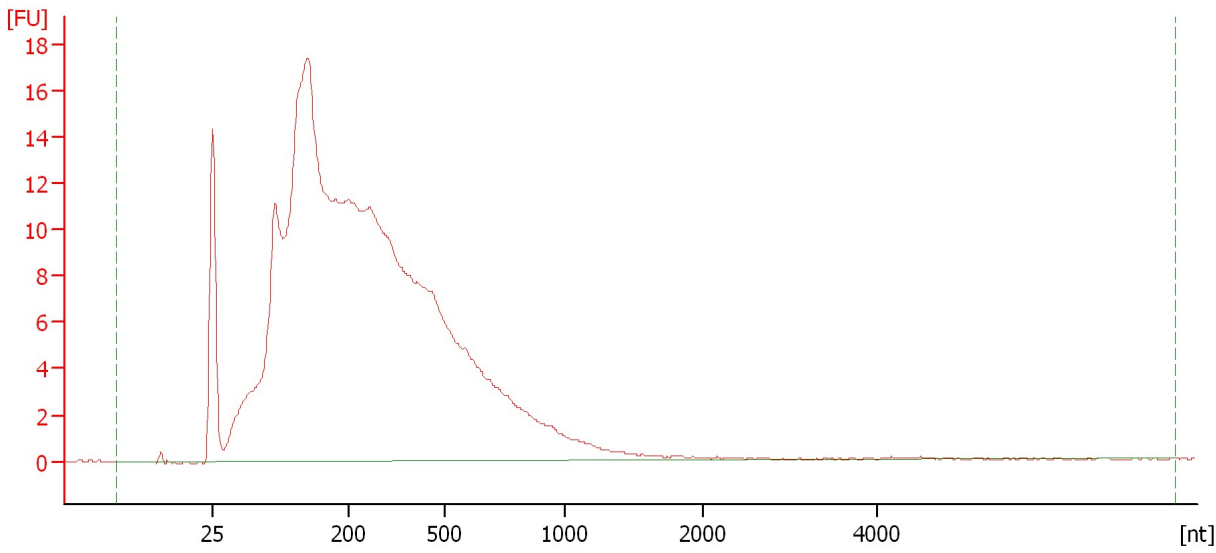
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,406	1,856	84.2	25.1
28S	2,673	3,220	87.2	26.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...

WTA Glob OI-3



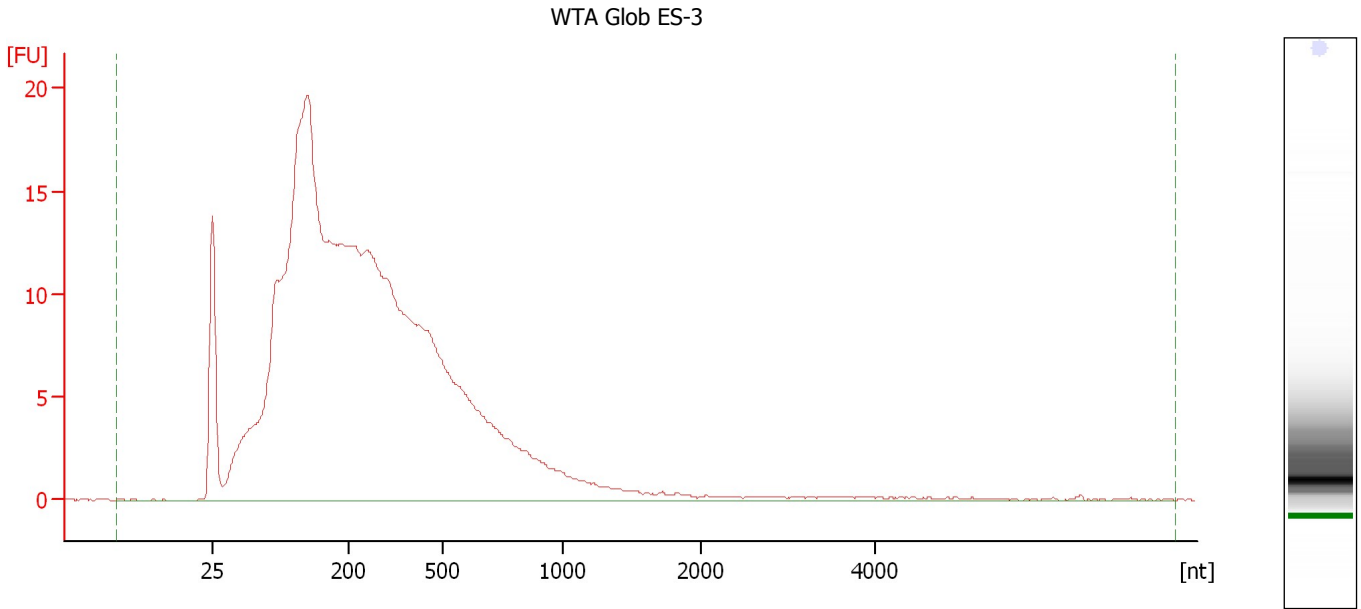
Overall Results for sample 10 : WTA Glob OI-3

RNA Area:	360.3	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,162 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Electropherogram Summary Continued ...



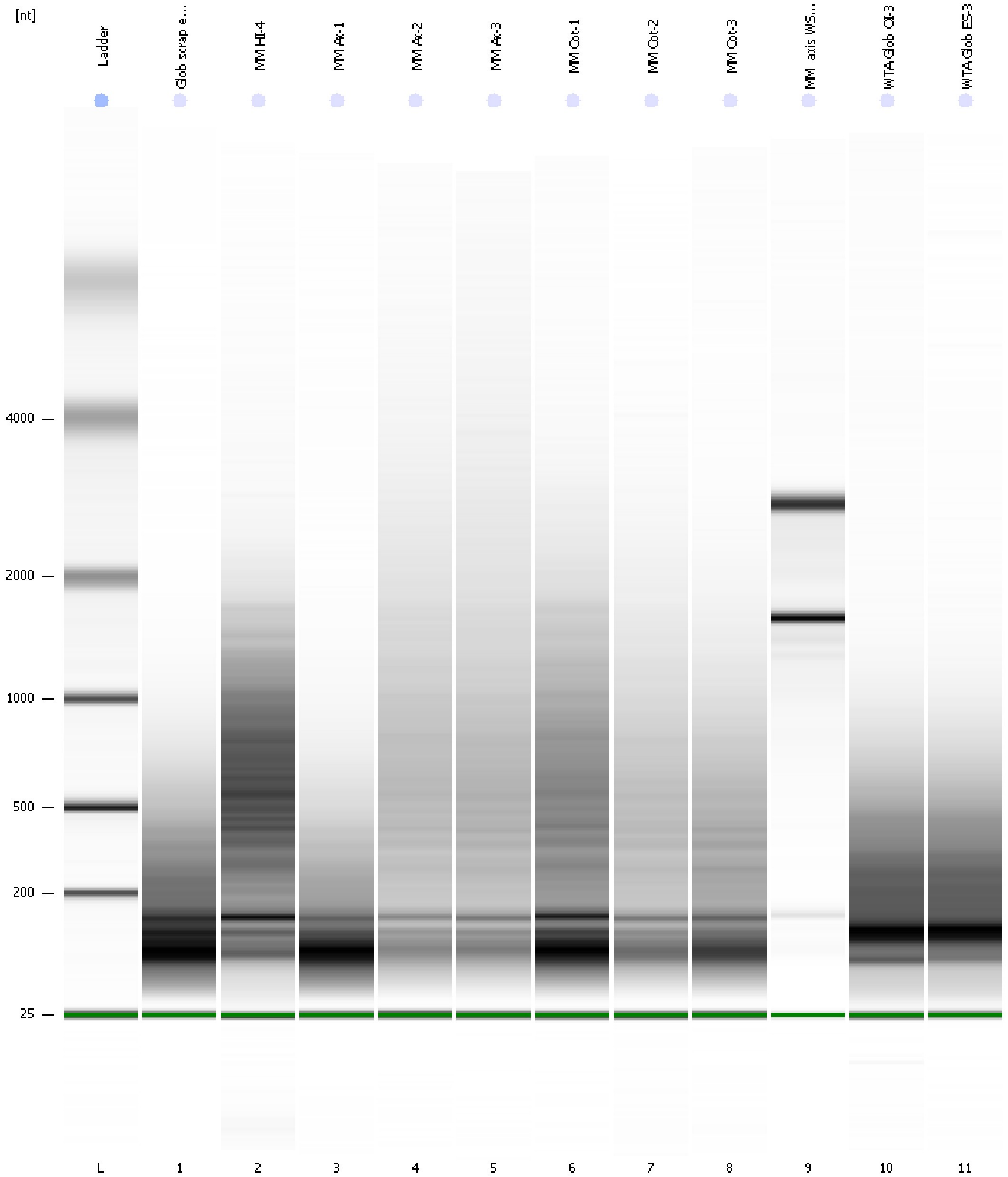
Overall Results for sample 11 : WTA Glob ES-3

RNA Area:	402.7	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,416 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
Modified: 4/22/2013 11:55:00 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad

Created: 4/22/2013 11:32:03 AM
 Modified: 4/22/2013 11:55:00 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		4/22/2013 11:54:58 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-22\2013-04-22_002.xad)		Instrument	Run		4/22/2013 11:32:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/22/2013 11:32:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/22/2013 11:32:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/22/2013 11:32:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/22/2013 11:32:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/22/2013 11:32:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/22/2013 11:32:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1