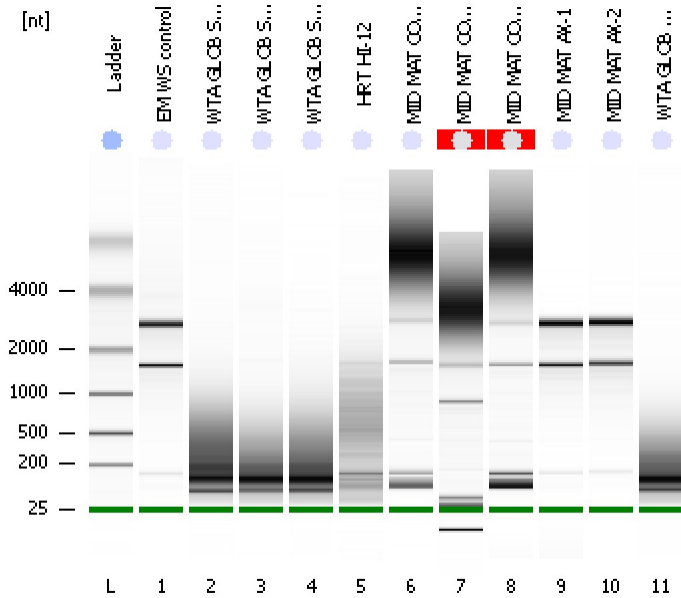


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
 Modified: 3/11/2013 2:19:52 PM

Electrophoresis File Run Summary



Instrument Information:

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

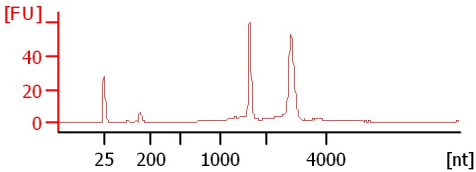
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

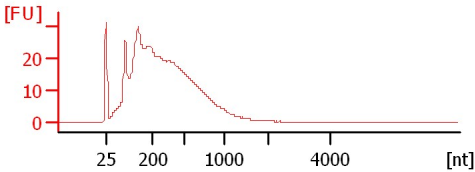
Chip Information:

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

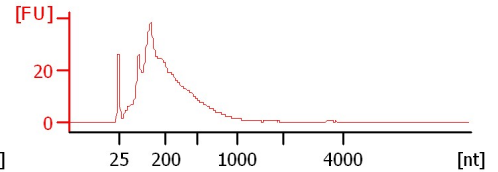
EM WS control
 RIN: 9.10



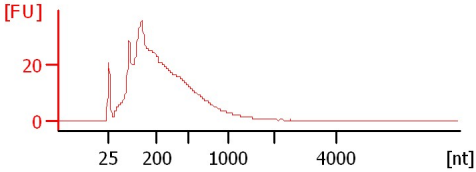
WTA GLOB SUS-1
 RIN: 2.20



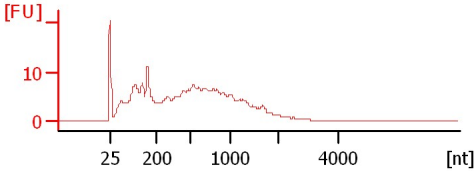
WTA GLOB SUS-2
 RIN: 2.30



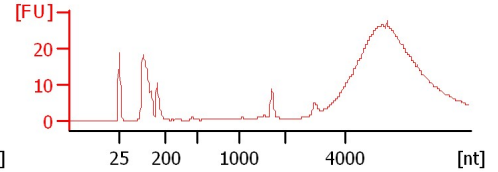
WTA GLOB SUS-3
 RIN: 2.20



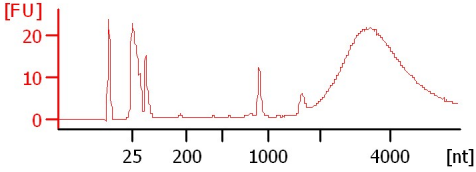
HRT HI-12
 RIN: 2.50



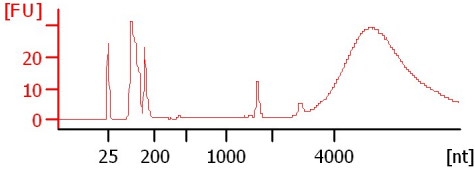
MID MAT COT-1
 RIN: 5.10



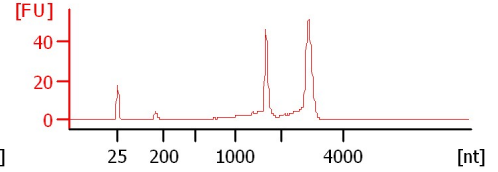
MID MAT COT-2
 RIN N/A



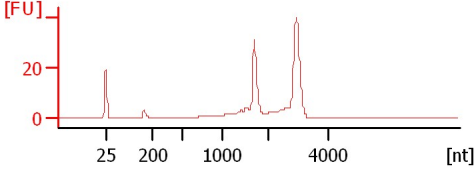
MID MAT COT-3
 RIN N/A



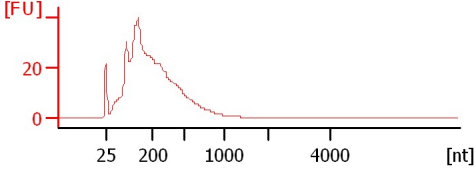
MID MAT AX-1
 RIN: 9.60



MID MAT AX-2
 RIN: 9.30



WTA GLOB HI-3
 RIN: 2.20



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
 Modified: 3/11/2013 2:19:52 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
EM WS control		✓	RIN: 9.10	
WTA GLOB SUS-1		✓	RIN: 2.20	
WTA GLOB SUS-2		✓	RIN: 2.30	
WTA GLOB SUS-3		✓	RIN: 2.20	
HRT HI-12		✓	RIN: 2.50	
MID MAT COT-1		✓	RIN: 5.10	
MID MAT COT-2		✓	RIN N/A	
MID MAT COT-3		✓	RIN N/A	
MID MAT AX-1		✓	RIN: 9.60	
MID MAT AX-2		✓	RIN: 9.30	
WTA GLOB HI-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\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

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

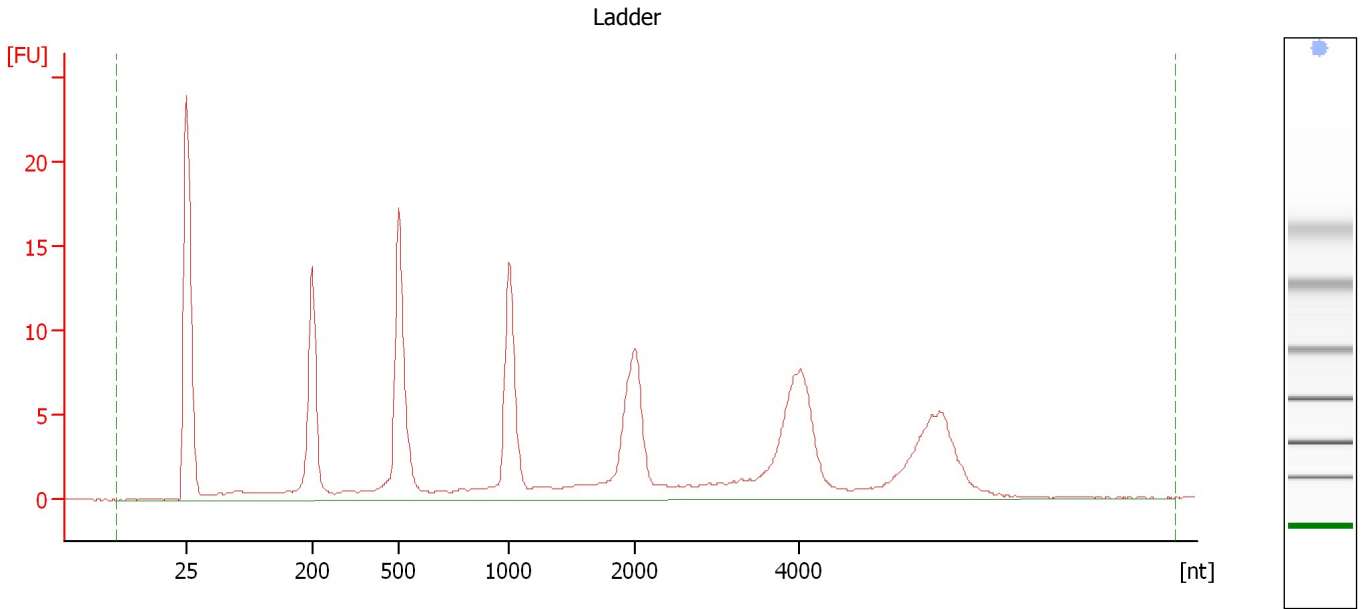
Ladder

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\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary



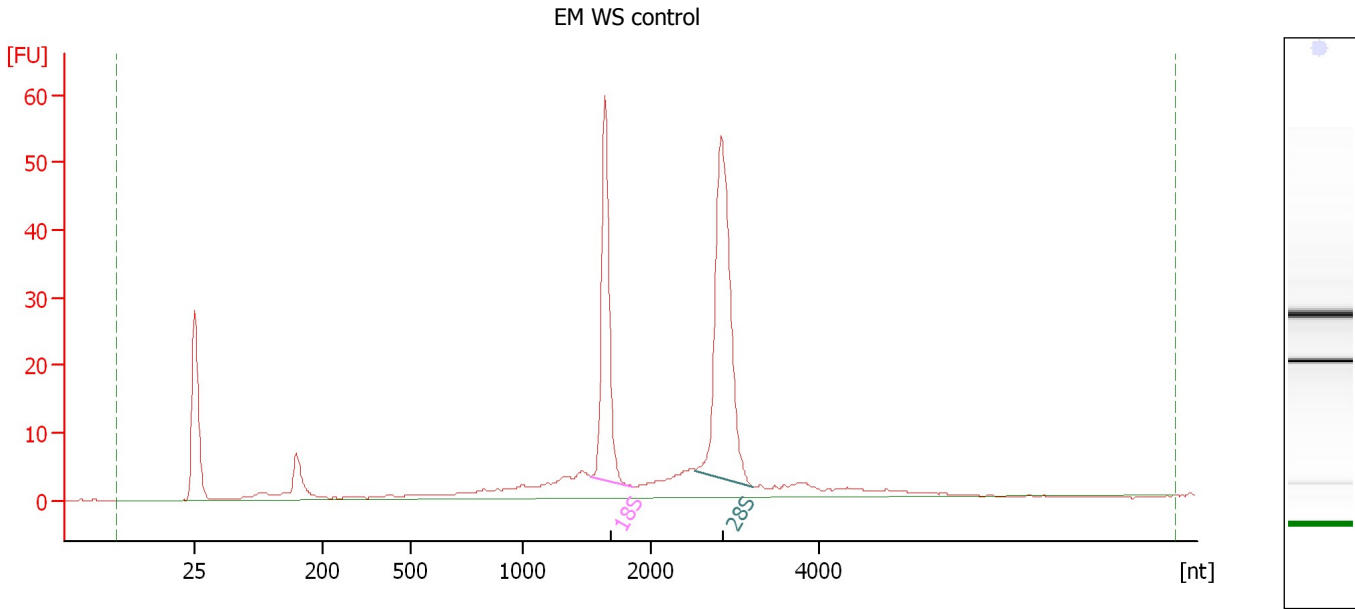
Overall Results for Ladder

RNA Area:	173.1	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\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EM WS control

RNA Area: 267.8 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 1,547 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.10

Fragment table for sample 1 : EM WS control

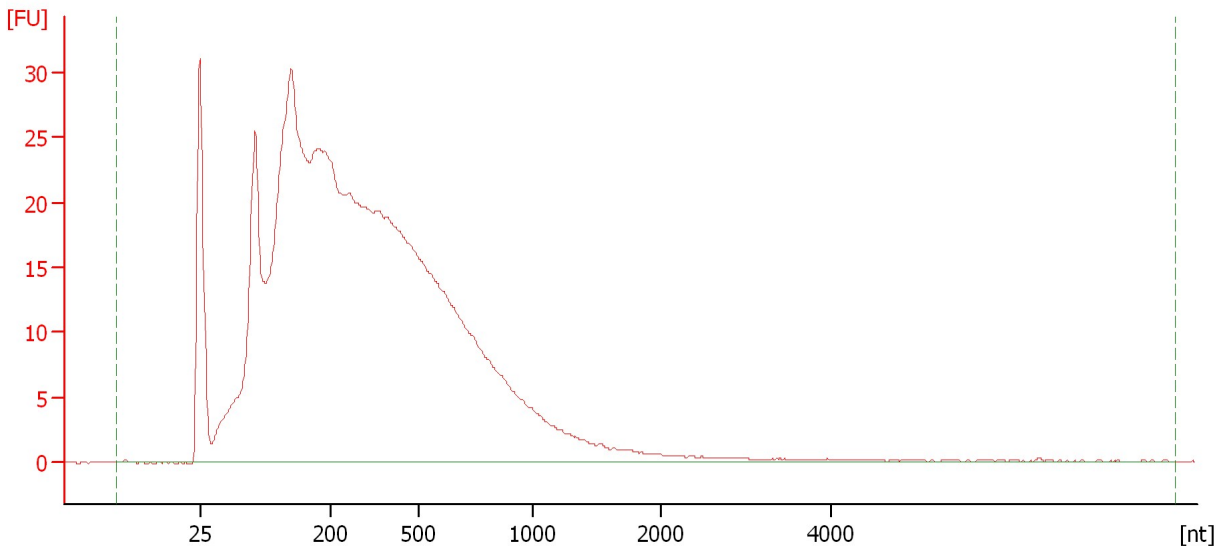
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,534	1,862	57.7	21.5
28S	2,527	3,212	87.2	32.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...

WTA GLOB SUS-1



Overall Results for sample 2 : WTA GLOB SUS-1

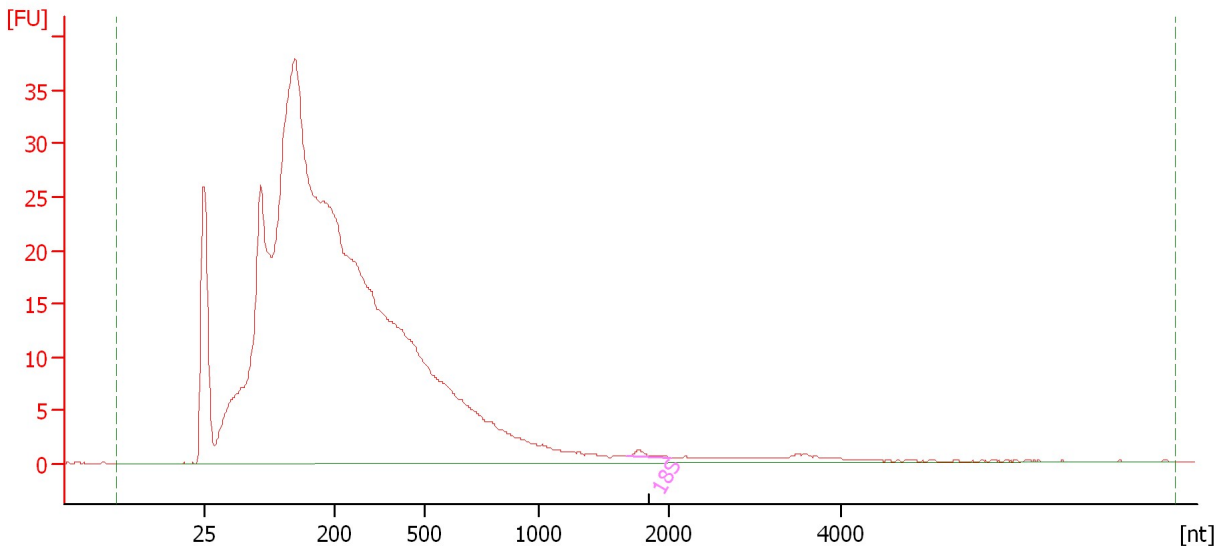
RNA Area:	760.0	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	4,391 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...

WTA GLOB SUS-2



Overall Results for sample 3 : WTA GLOB SUS-2

RNA Area:	696.2	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	4,022 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Fragment table for sample 3 : WTA GLOB SUS-2

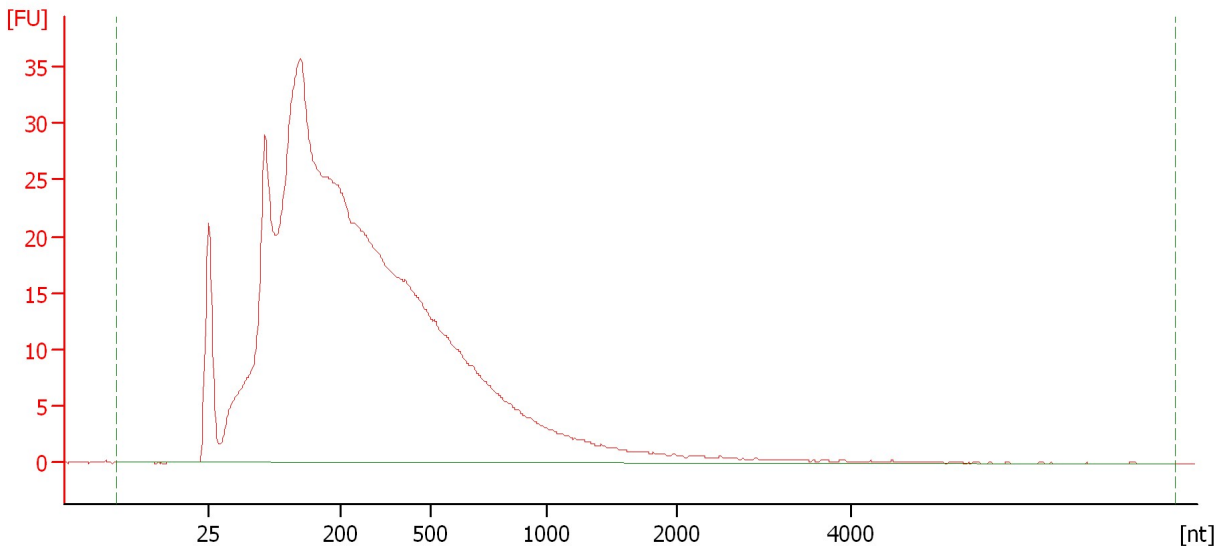
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,681	2,016	0.8	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...

WTA GLOB SUS-3



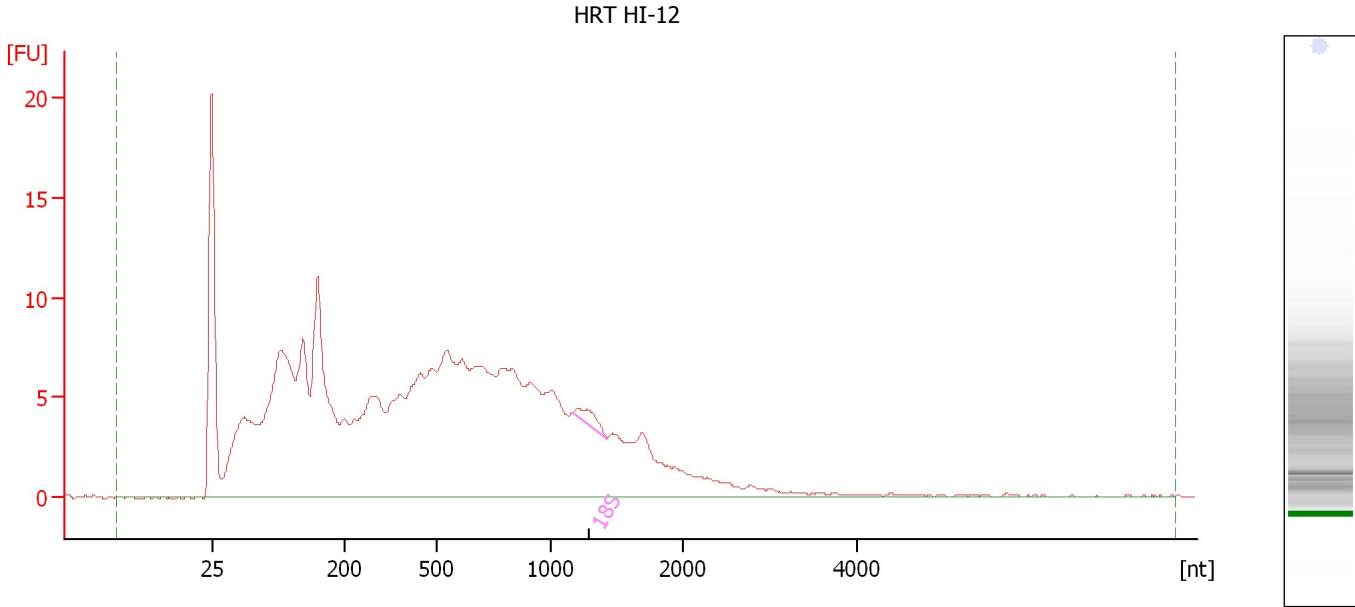
Overall Results for sample 4 : WTA GLOB SUS-3

RNA Area:	780.8	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	4,511 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\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HRT HI-12

RNA Area:	314.2	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	1,815 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

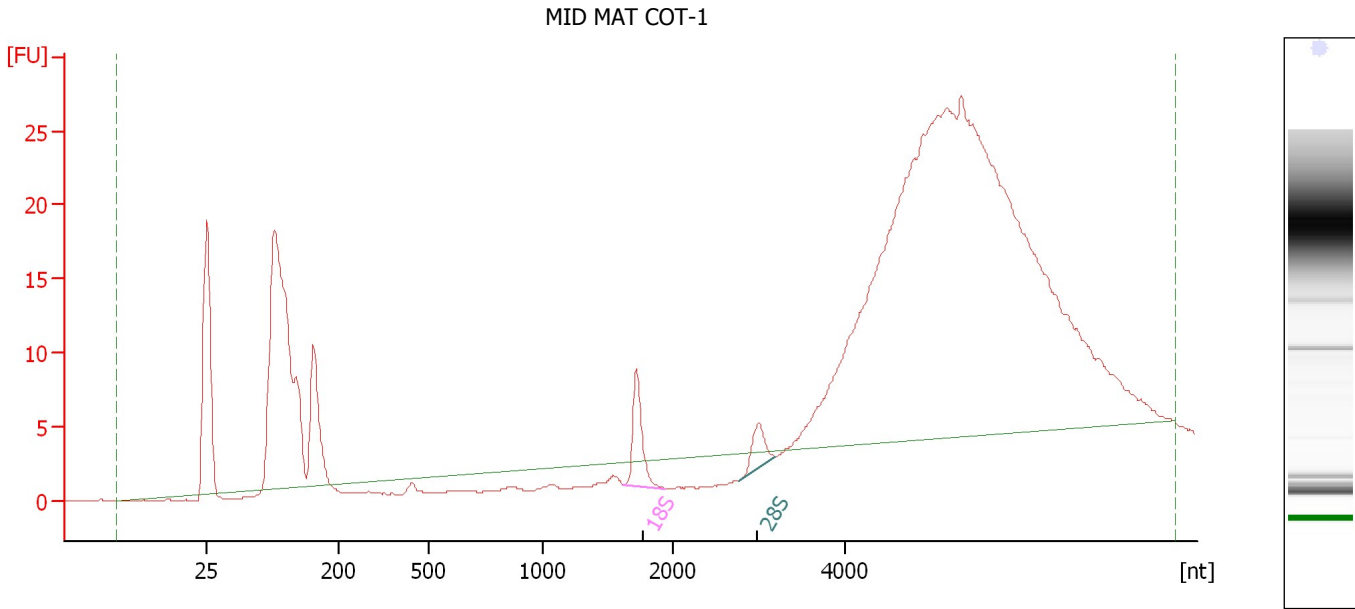
Fragment table for sample 5 : HRT HI-12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,162	1,422	1.7	0.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
 Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MID MAT COT-1

RNA Area:	404.0	RNA Integrity Number (RIN):	5.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,334 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 5.10

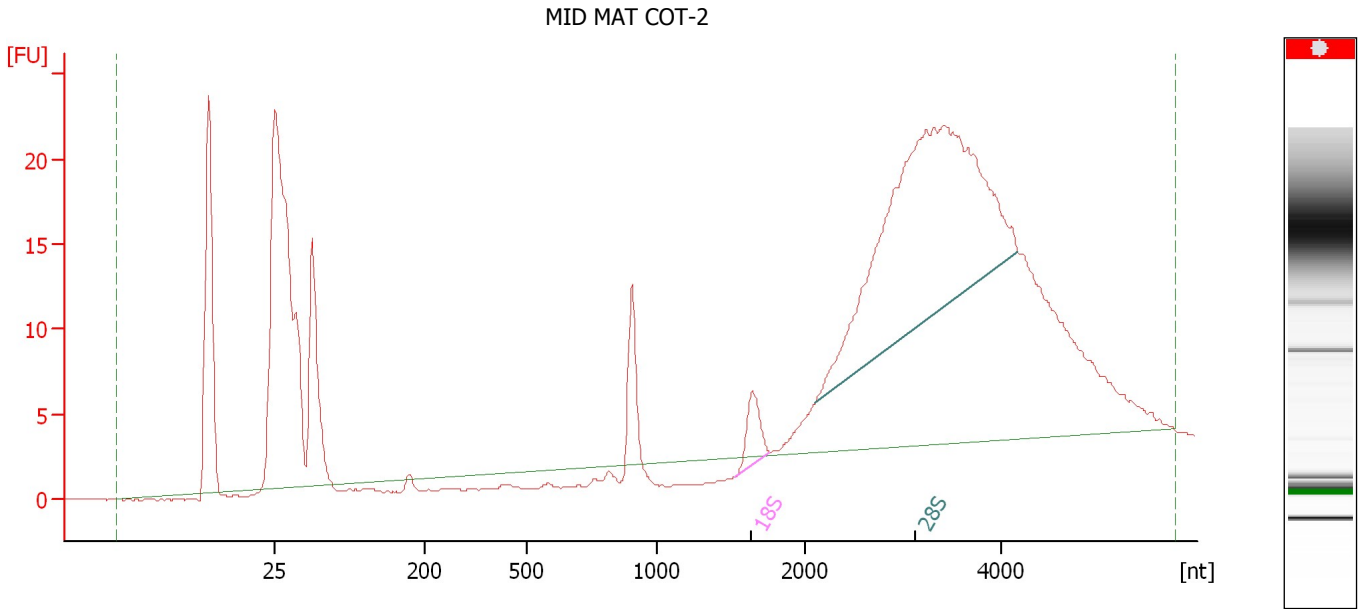
Fragment table for sample 6 : MID MAT COT-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,938	9.1	2.3
28S	2,774	3,182	4.3	1.1

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
 Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : MID MAT COT-2

RNA Area:	348.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,012 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	17.0	Result Flagging Label:	RIN N/A

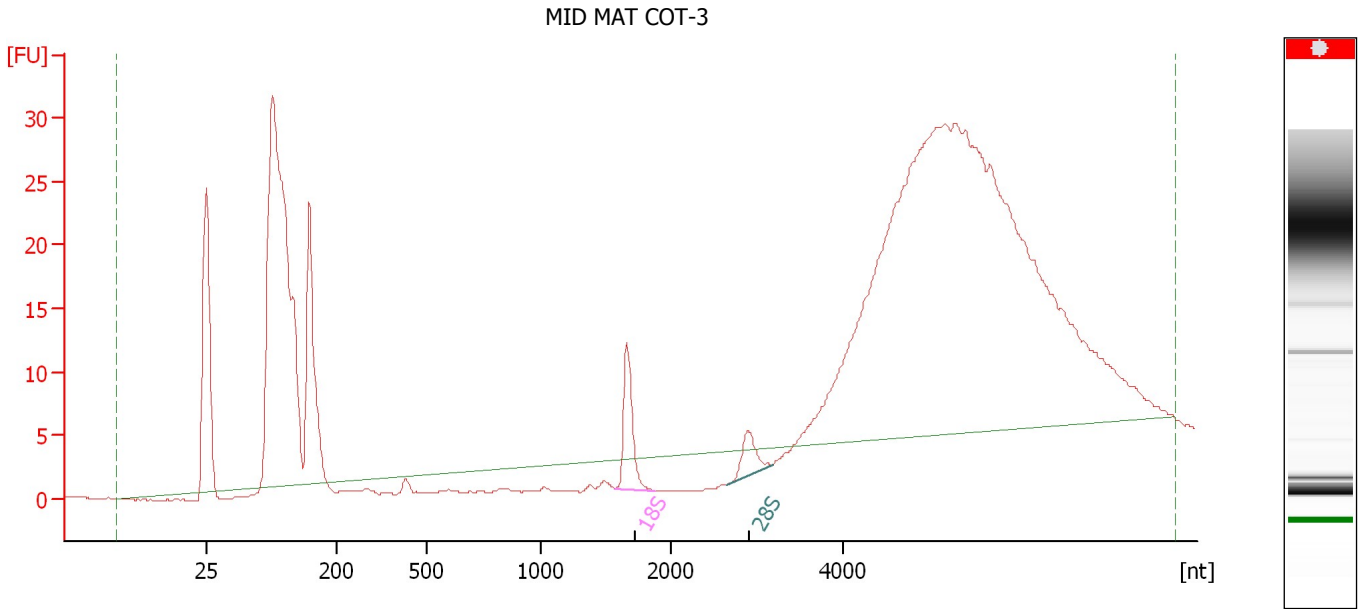
Fragment table for sample 7 : MID MAT COT-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,534	1,765	6.1	1.8
28S	2,115	4,177	104.3	29.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : MID MAT COT-3

RNA Area: 509.7 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 2,945 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN N/A

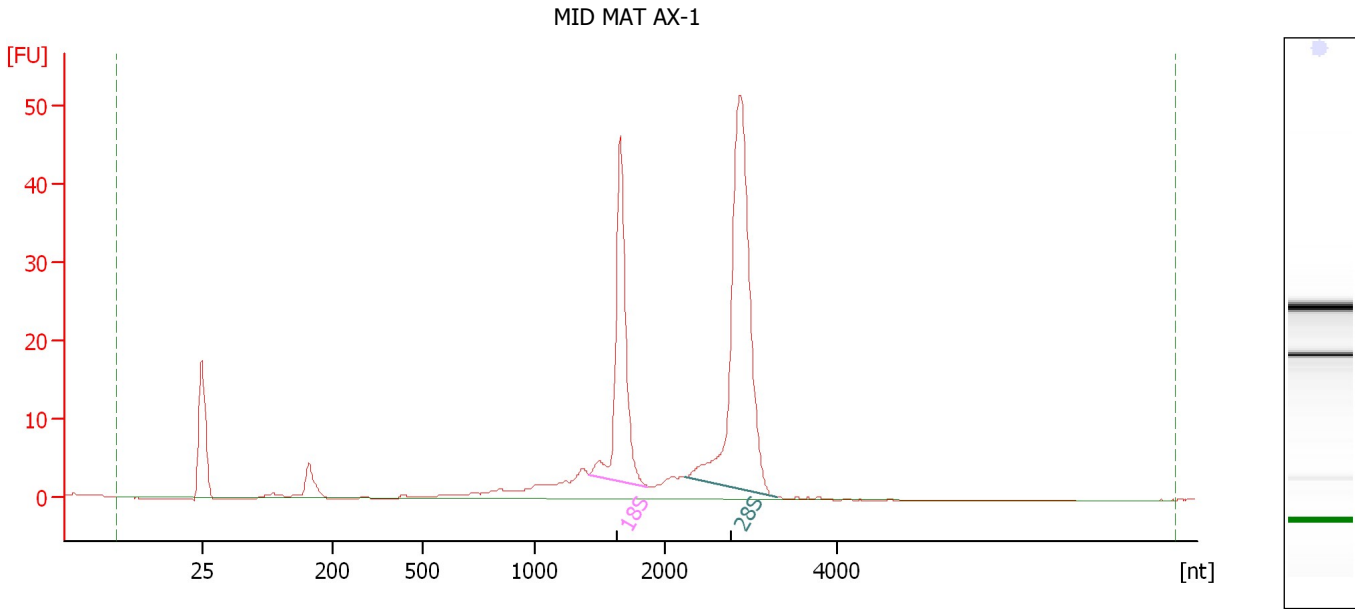
Fragment table for sample 8 : MID MAT COT-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,880	12.1	2.4
28S	2,650	3,172	5.3	1.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MID MAT AX-1

RNA Area: 229.5 RNA Integrity Number (RIN): 9.6 (B.02.08)
RNA Concentration: 1,326 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.60

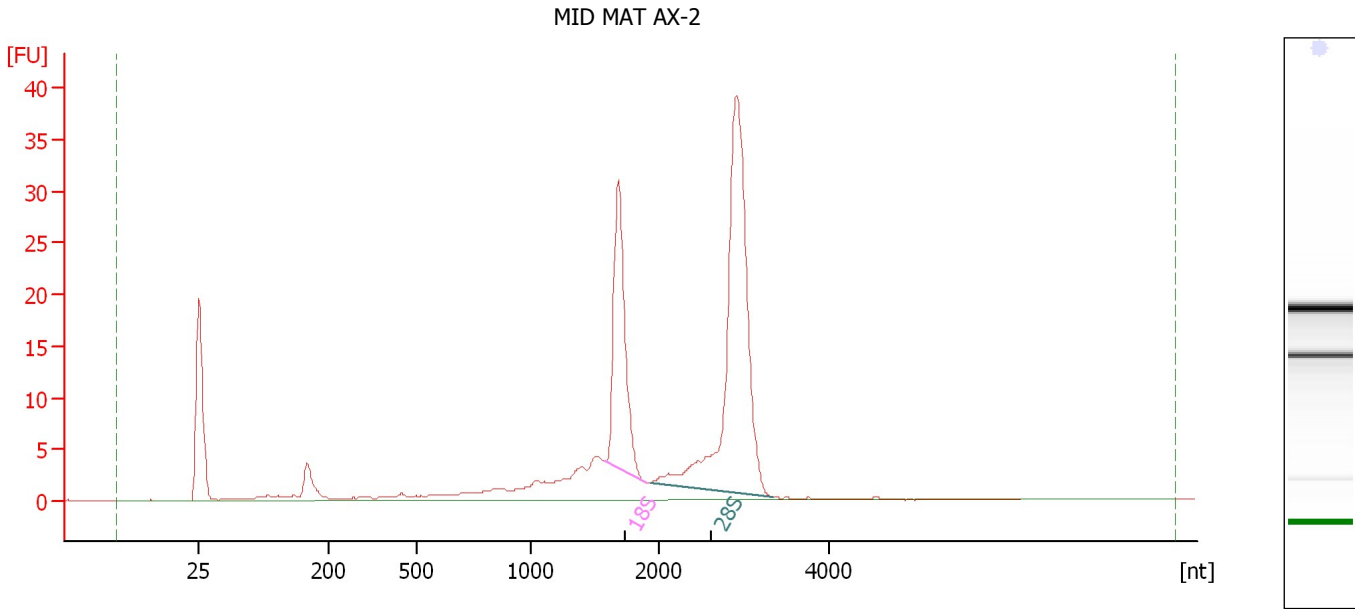
Fragment table for sample 9 : MID MAT AX-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,414	1,860	54.6	23.8
28S	2,227	3,301	104.2	45.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : MID MAT AX-2

RNA Area: 206.8 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 1,195 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.3 Result Flagging Label: RIN: 9.30

Fragment table for sample 10 : MID MAT AX-2

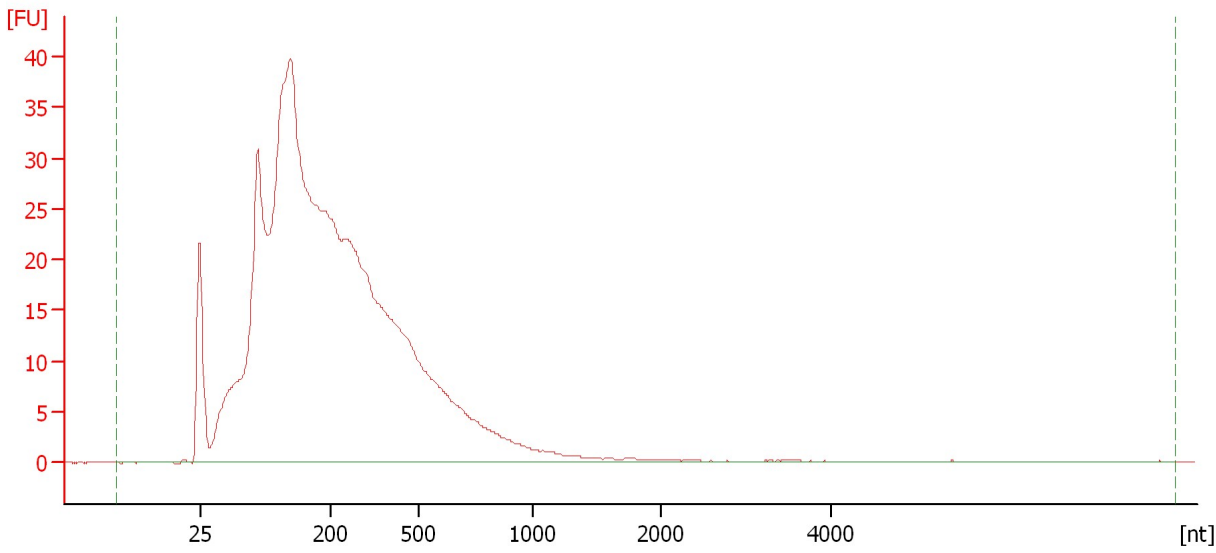
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,574	1,899	39.0	18.9
28S	1,932	3,344	89.1	43.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Electropherogram Summary Continued ...

WTA GLOB HI-3



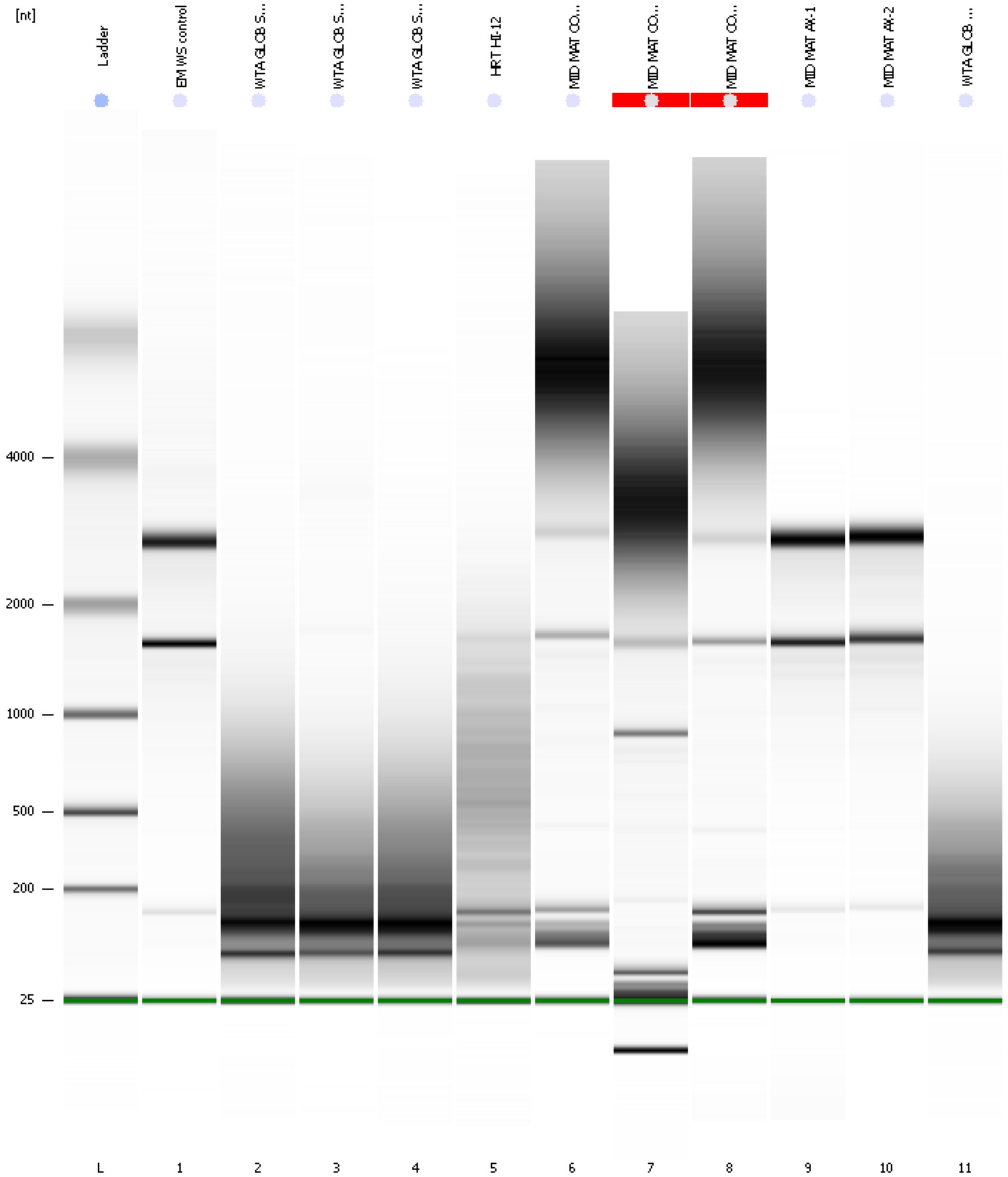
Overall Results for sample 11 : WTA GLOB HI-3

RNA Area:	737.1	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	4,259 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\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
Modified: 3/11/2013 2:19:52 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad

Created: 3/11/2013 1:51:53 PM
 Modified: 3/11/2013 2:19:52 PM

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		3/11/2013 2:14:46 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-03-11\2013-03-11_002.xad)		Instrument	Run		3/11/2013 1:51:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/11/2013 1:51:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/11/2013 1:51:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/11/2013 1:51:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/11/2013 1:51:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/11/2013 1:51:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/11/2013 1:51:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1