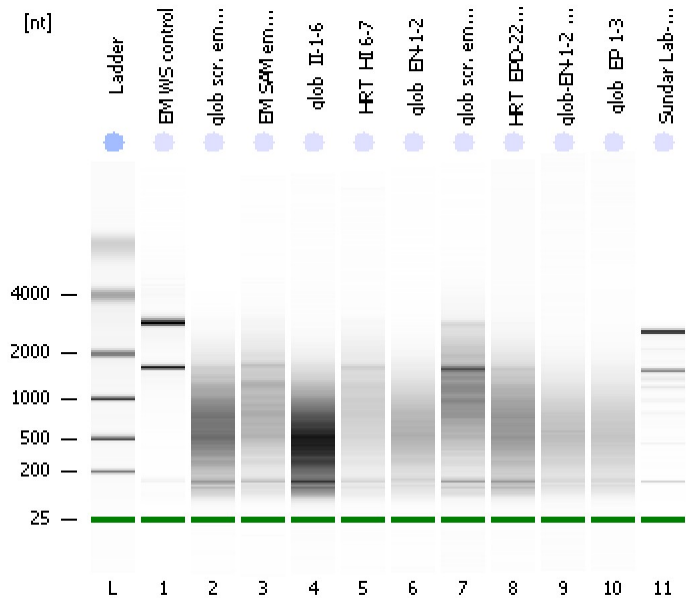


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electrophoresis File Run Summary



Instrument Information:

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

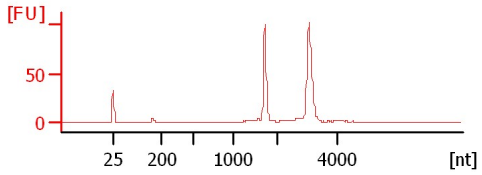
Assay Information:

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)
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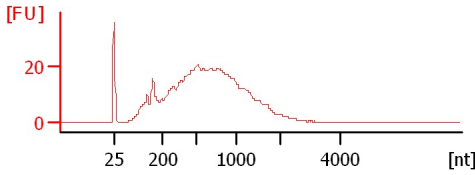
Chip Information:

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

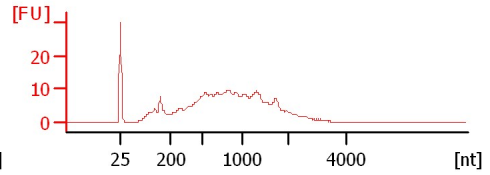
EM WS control
RIN: 9.80



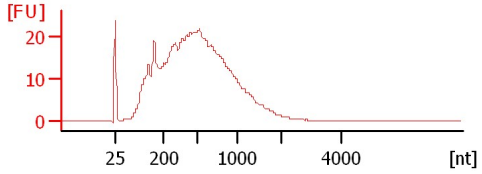
glob scr. embed 5/7
RIN: 2.30



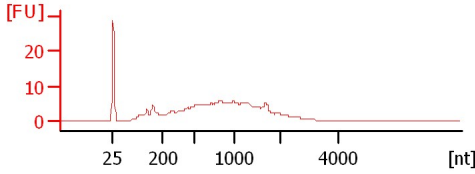
EM SAM embed 5/4
RIN: 2.80



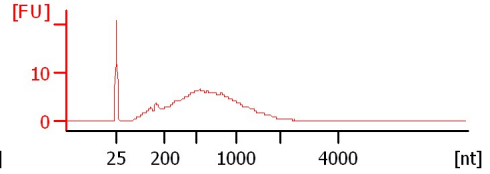
glob_II-1-6
RIN: 2



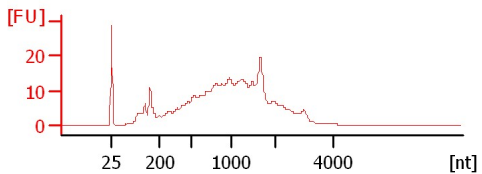
HRT_HI 6-7
RIN: 3.40



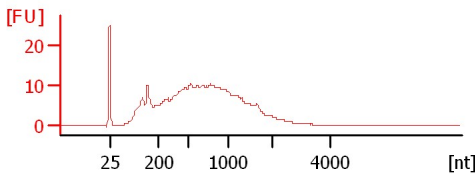
glob_EN-1-2
RIN: 2.20



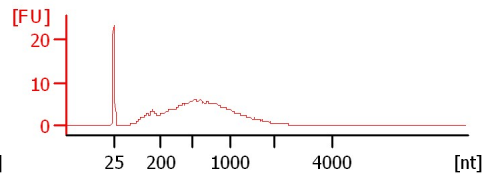
glob scr. embed 5/24
RIN: 3.80



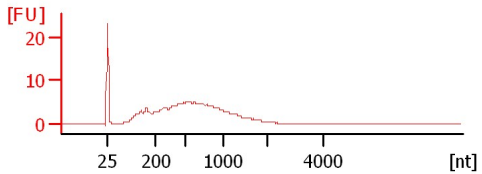
HRT_EPD-22-32
RIN: 2.50



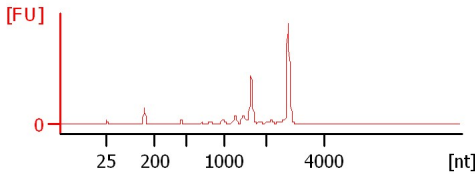
glob-EN-1-2 (1/5)
RIN: 2.20



glob_EP 1-3
RIN: 2.10



Sundar Lab-EC II
RIN: 8.30



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
EM WS control		✓	RIN: 9.80	
glob scr. embed 5/7		✓	RIN: 2.30	
EM SAM embed 5/4		✓	RIN: 2.80	
glob_II-1-6		✓	RIN:2	
HRT_HI 6-7		✓	RIN: 3.40	
glob_EN-1-2		✓	RIN: 2.20	
glob scr. embed 5/24		✓	RIN: 3.80	
HRT_EPD-22-32		✓	RIN: 2.50	
glob-EN-1-2 (1/5)		✓	RIN: 2.20	
glob_EP 1-3		✓	RIN: 2.10	
Sundar Lab-EC II		✓	RIN: 8.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 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

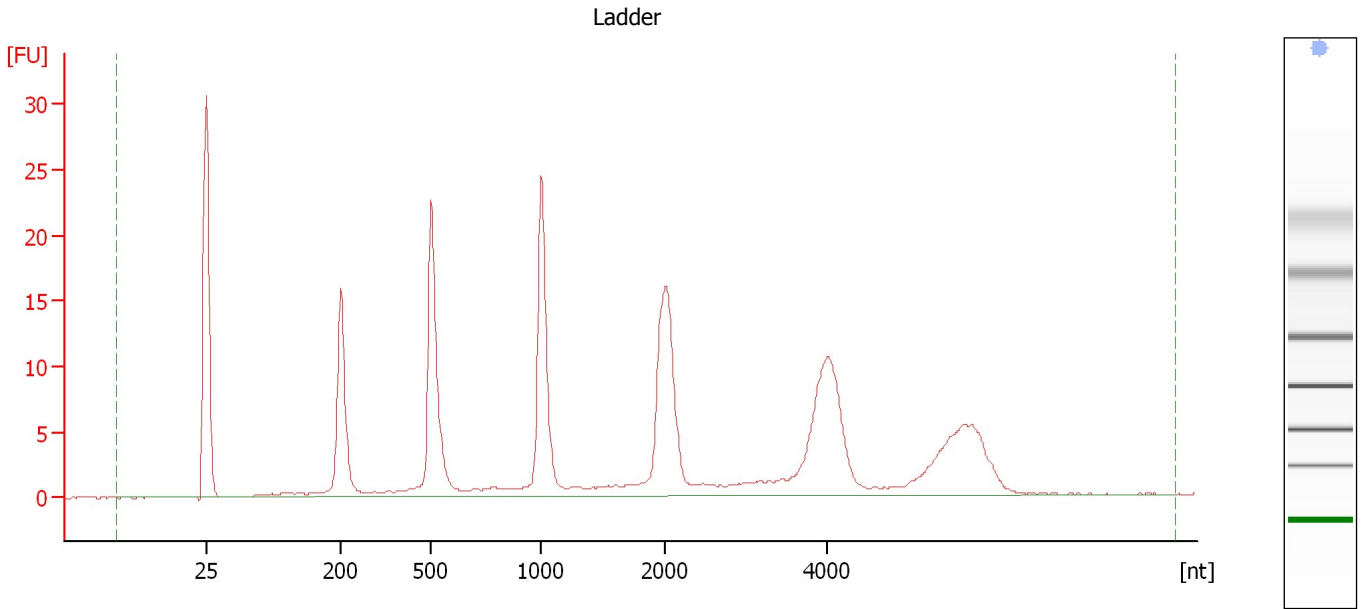
Ladder

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\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary



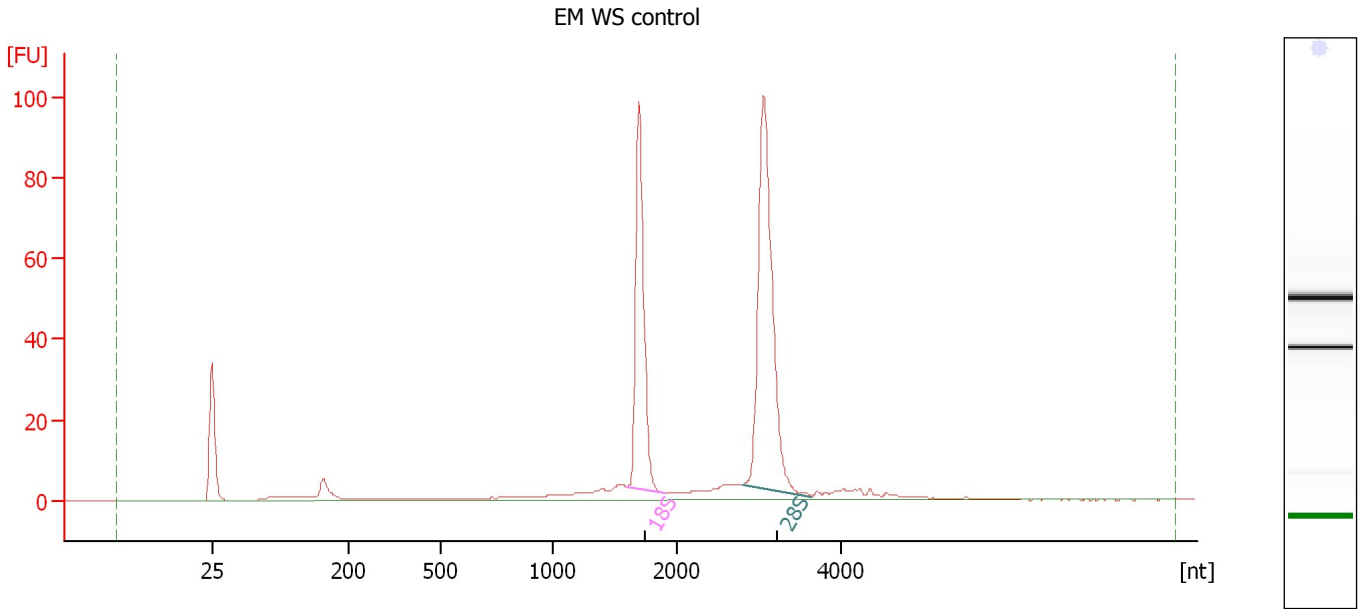
Overall Results for Ladder

RNA Area:	208.2	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\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EM WS control

RNA Area: 357.2 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 1,716 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.80

Fragment table for sample 1 : EM WS control

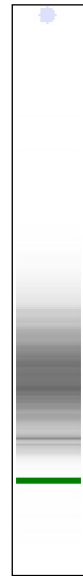
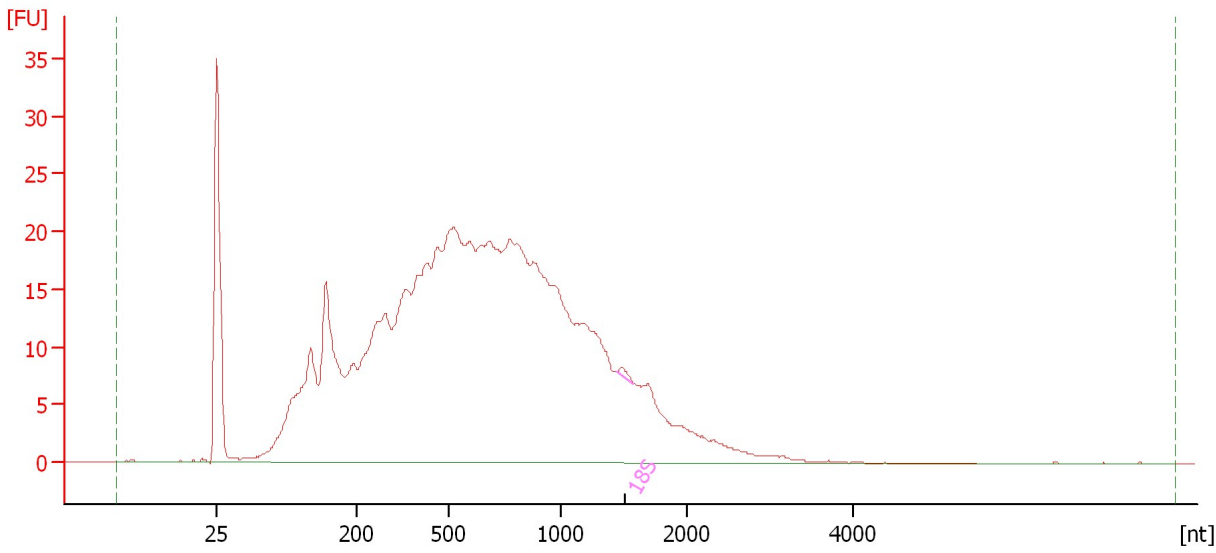
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,893	96.3	27.0
28S	2,799	3,631	148.5	41.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...

glob scr. embed 5/7



Overall Results for sample 2 : glob scr. embed 5/7

RNA Area:	664.8	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	3,193 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

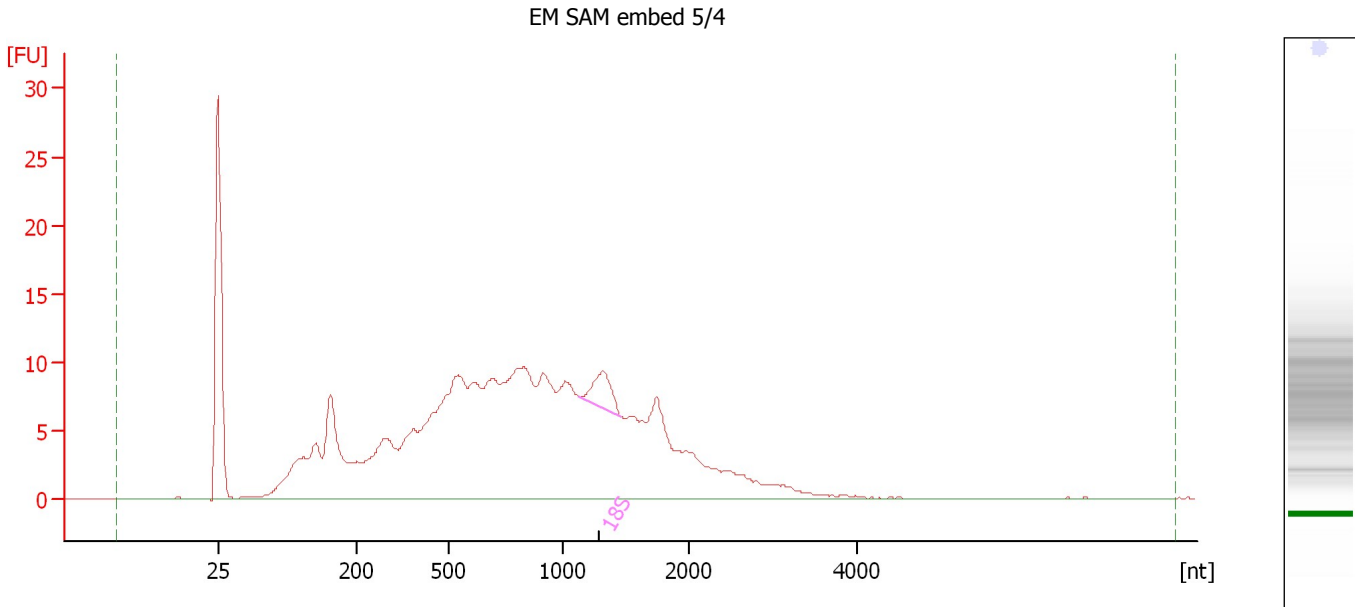
Fragment table for sample 2 : glob scr. embed 5/7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,435	1,570	0.9	0.1

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
 Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : EM SAM embed 5/4

RNA Area:	339.8	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	1,632 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

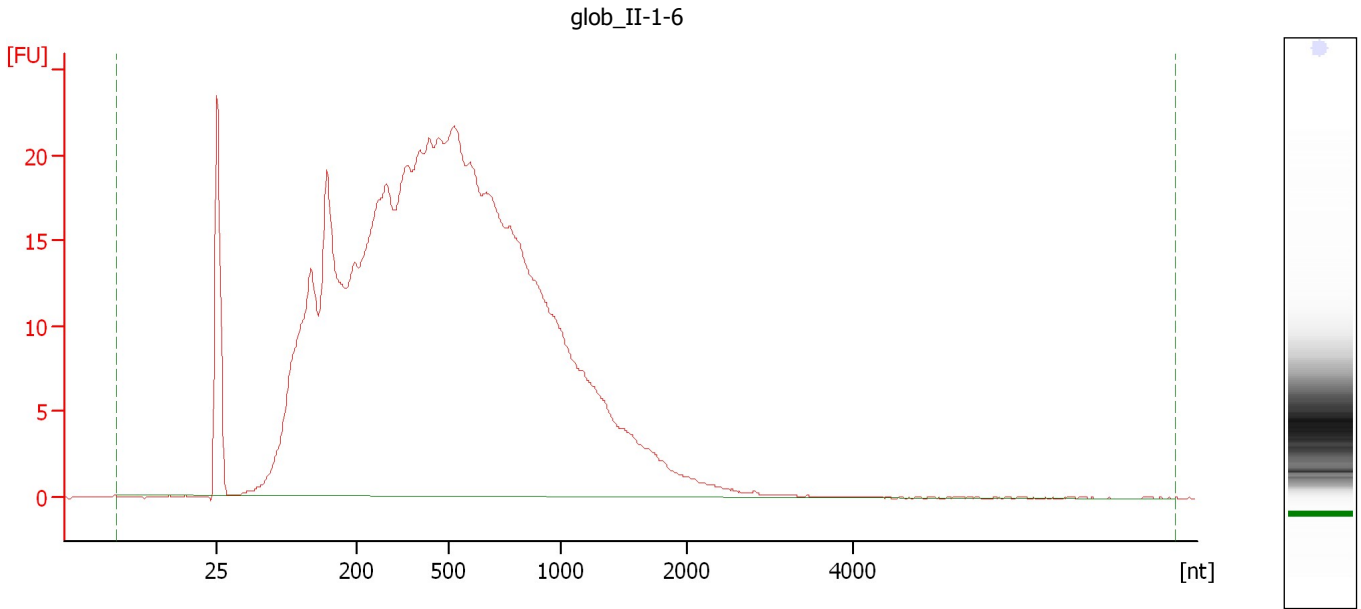
Fragment table for sample 3 : EM SAM embed 5/4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,134	1,454	6.2	1.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...



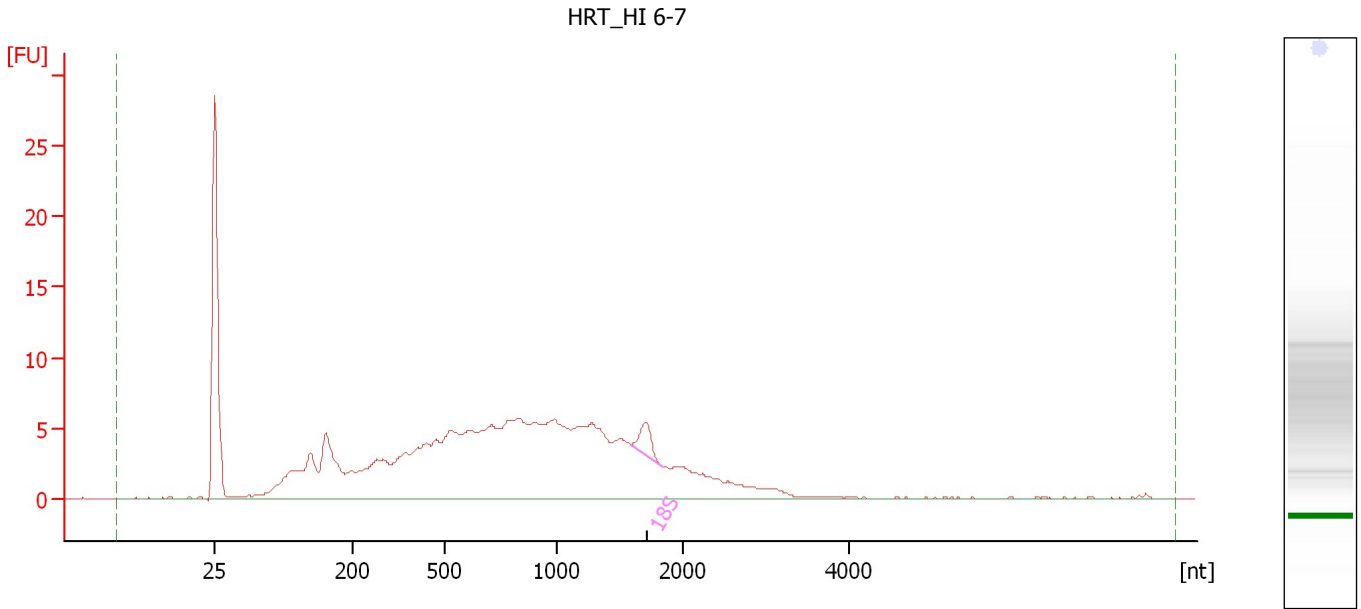
Overall Results for sample 4 : glob II-1-6

RNA Area:	673.6	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	3,235 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HRT_HI 6-7

RNA Area:	212.6	RNA Integrity Number (RIN):	3.4 (B.02.08)
RNA Concentration:	1,021 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.40

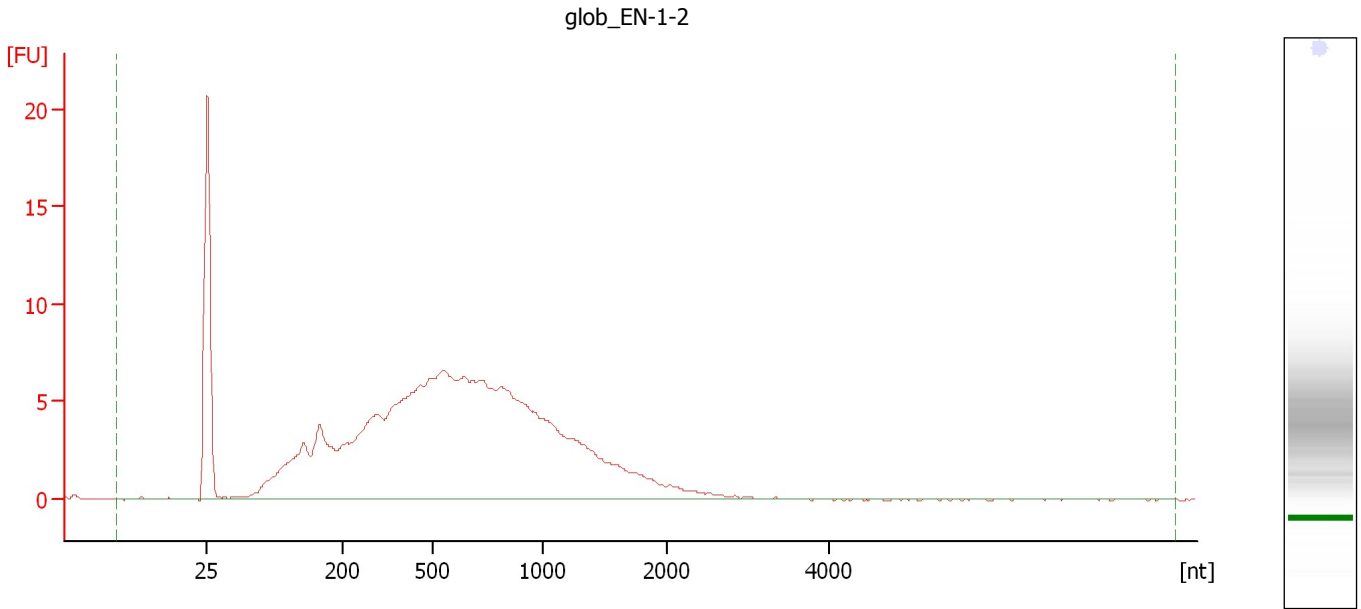
Fragment table for sample 5 : HRT_HI 6-7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,829	3.3	1.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : glob_EN-1-2

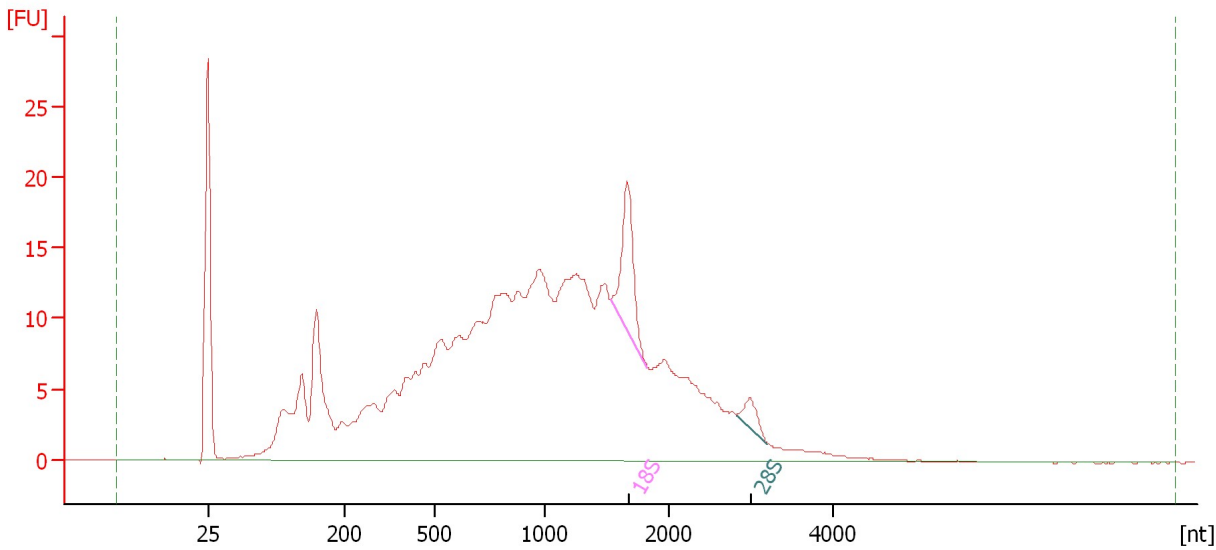
RNA Area:	201.7	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	969 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...

glob scr. embed 5/24



Overall Results for sample 7 : glob scr. embed 5/24

RNA Area: 461.5 RNA Integrity Number (RIN): 3.8 (B.02.08)
RNA Concentration: 2,217 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 3.80

Fragment table for sample 7 : glob scr. embed 5/24

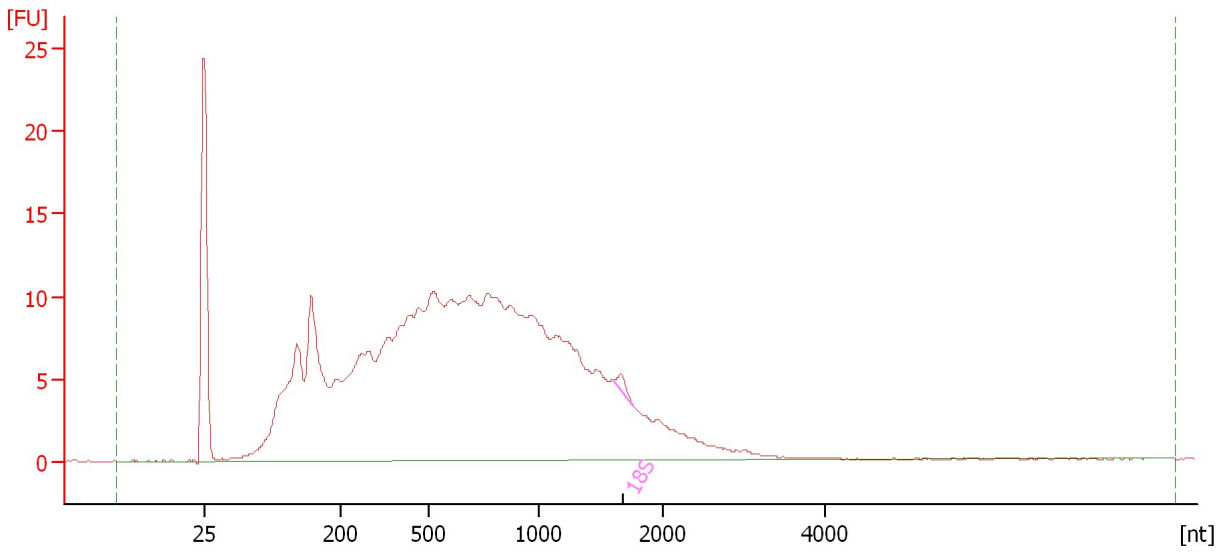
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,529	1,821	14.7	3.2
28S	2,827	3,207	2.9	0.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...

HRT_EPD-22-32



Overall Results for sample 8 : HRT EPD-22-32

RNA Area:	373.2	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	1,792 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

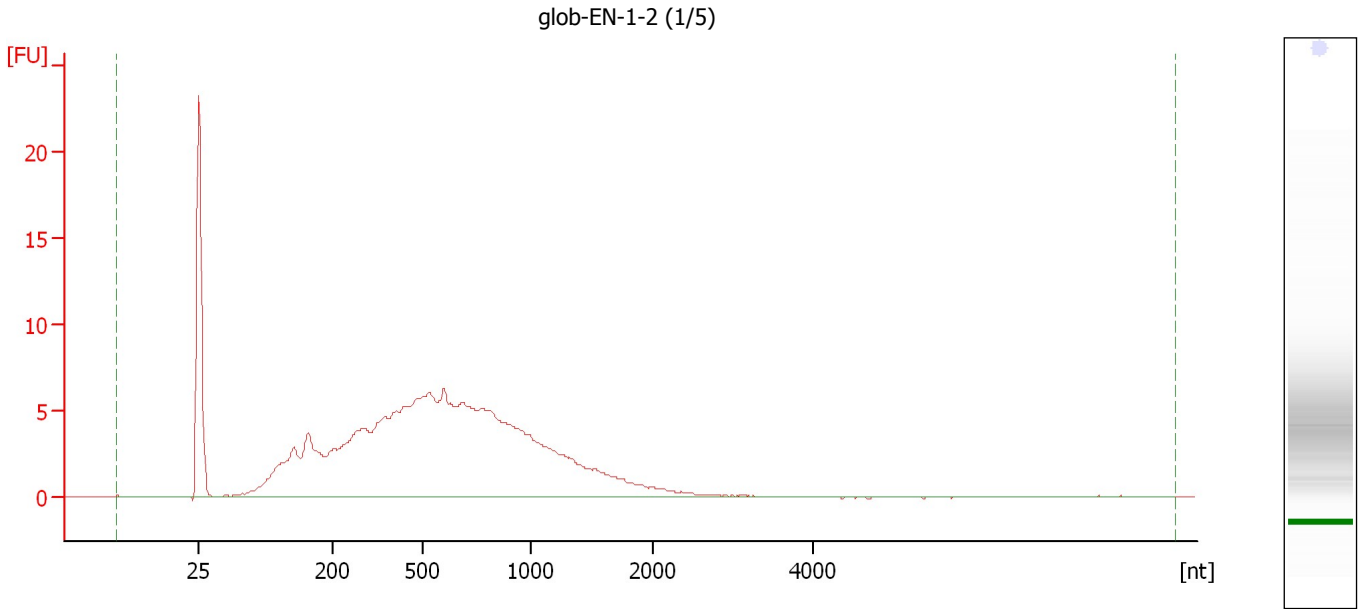
Fragment table for sample 8 : HRT EPD-22-32

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,601	1,757	1.0	0.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...



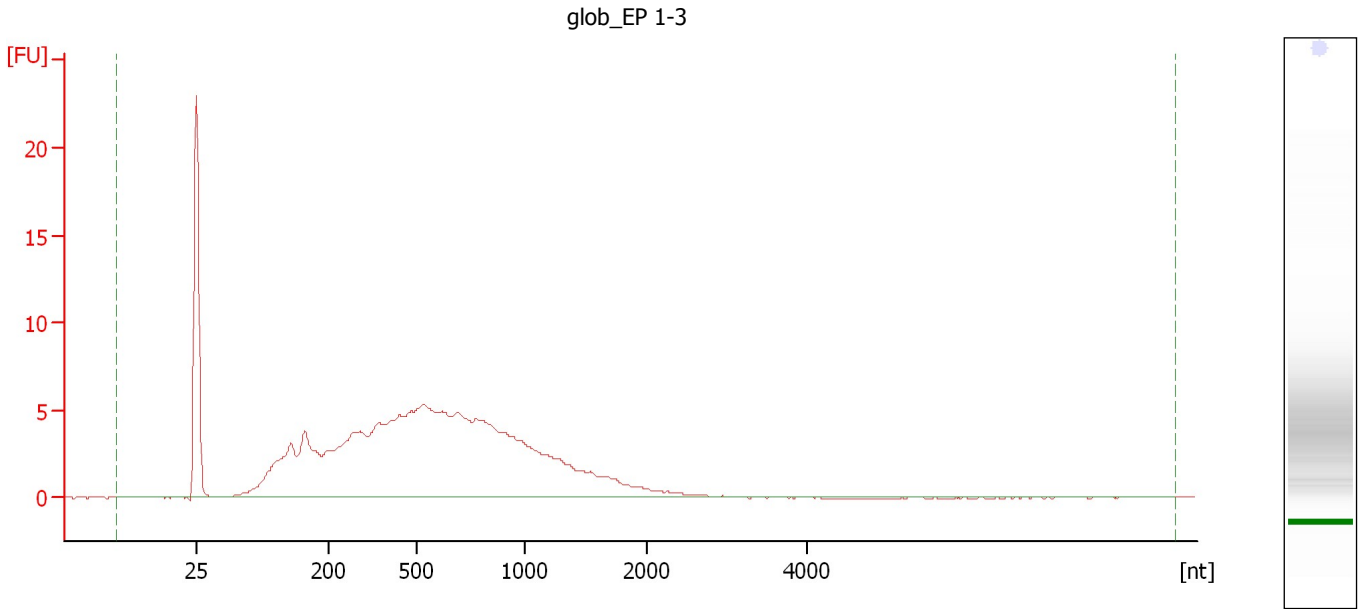
Overall Results for sample 9 : glob-EN-1-2 (1/5)

RNA Area:	176.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	847 pg/ μ l	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\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...



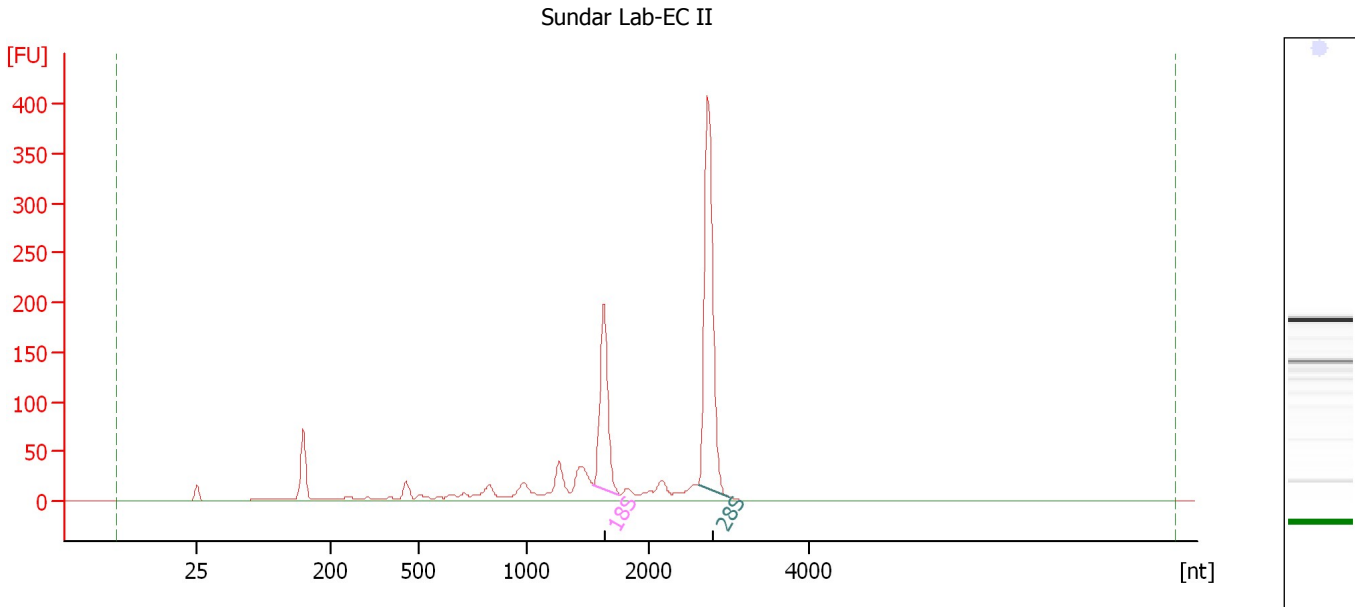
Overall Results for sample 10 : glob_EP 1-3

RNA Area:	167.4	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	804 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\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sundar Lab-EC II

RNA Area: 1,114.4 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 5,352 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 8.30

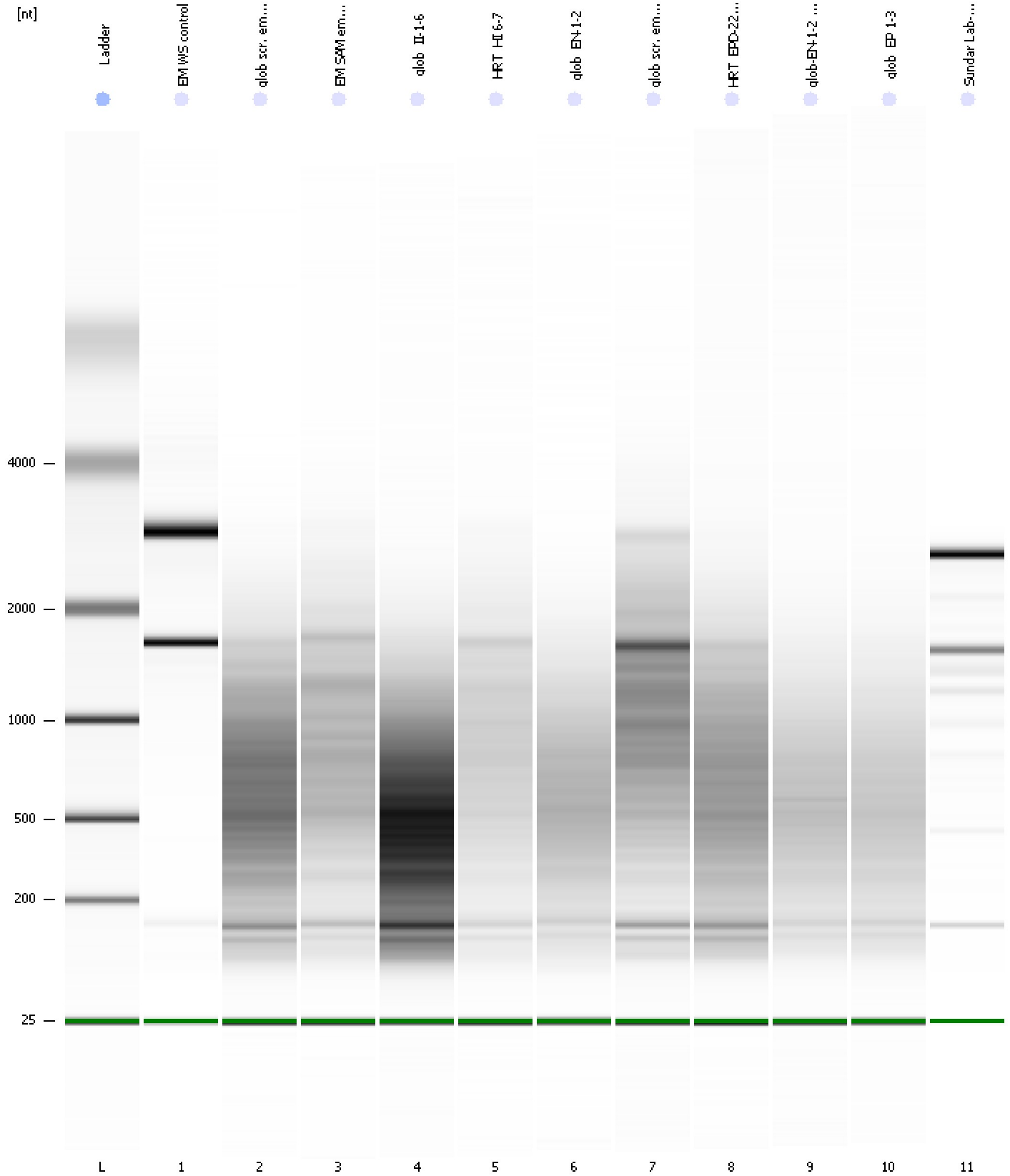
Fragment table for sample 11 : Sundar Lab-EC II

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,546	1,756	188.2	16.9
28S	2,619	3,007	368.7	33.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
Modified: 6/1/2012 12:50:35 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad

Created: 6/1/2012 12:27:29 PM
 Modified: 6/1/2012 12:50:35 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		6/1/2012 12:50:23 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-06-01\2012-06-01_003.xad)		Instrument	Run		6/1/2012 12:27:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/1/2012 12:27:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/1/2012 12:27:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/1/2012 12:27:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/1/2012 12:27:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/1/2012 12:27:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/1/2012 12:27:35 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1