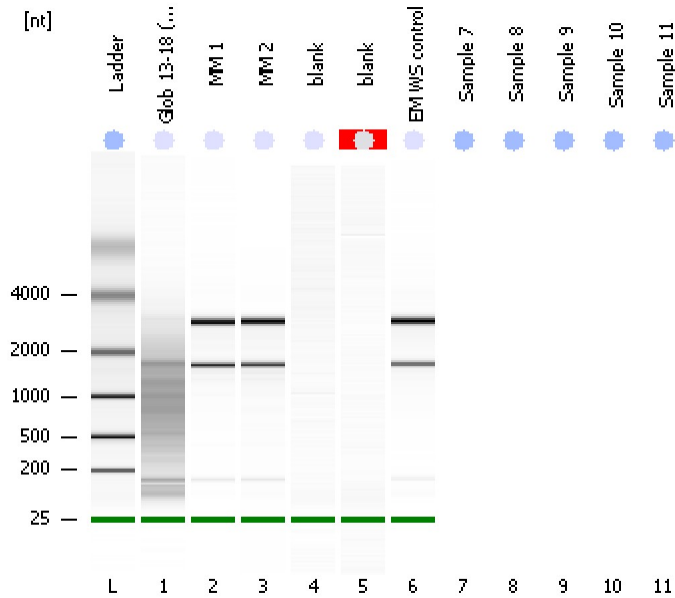


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Electrophoresis File Run Summary



Instrument Information:

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

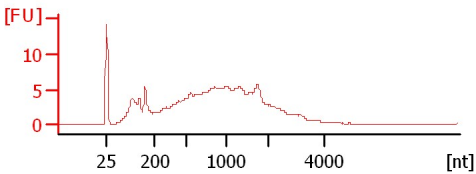
Assay Information:

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.

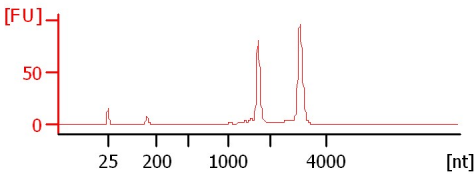
Chip Information:

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

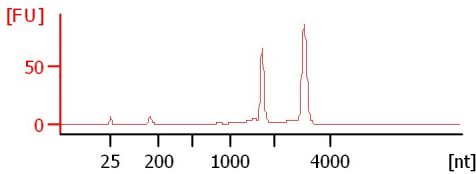
Glob 13-18 (1/3)
RIN:3



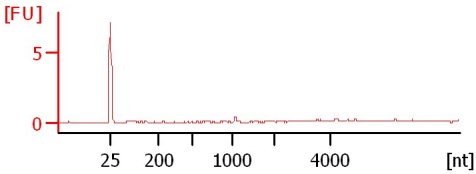
MM 1
RIN: 9.70



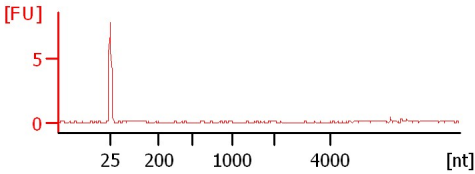
MM 2
RIN: 9.40



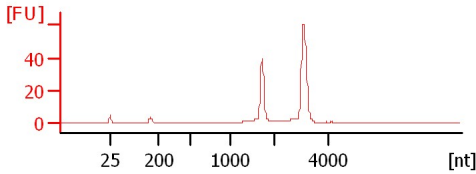
blank
RIN: 5.40



blank
RIN N/A



EM WS control
RIN: 9.90



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Glob 13-18 (1/3)		✓	RIN:3	
MM 1		✓	RIN: 9.70	
MM 2		✓	RIN: 9.40	
blank		✓	RIN: 5.40	
blank		✓	RIN N/A	
EM WS control		✓	RIN: 9.90	
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ μ l] : 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

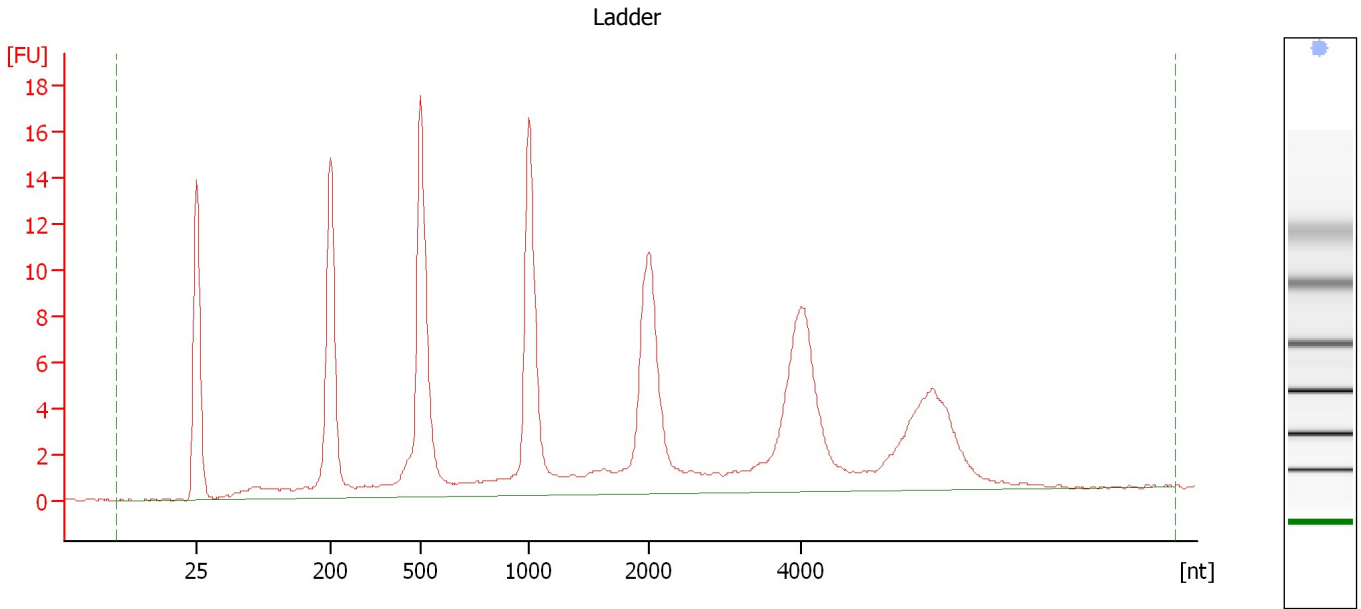
Ladder

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\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Electropherogram Summary



Overall Results for Ladder

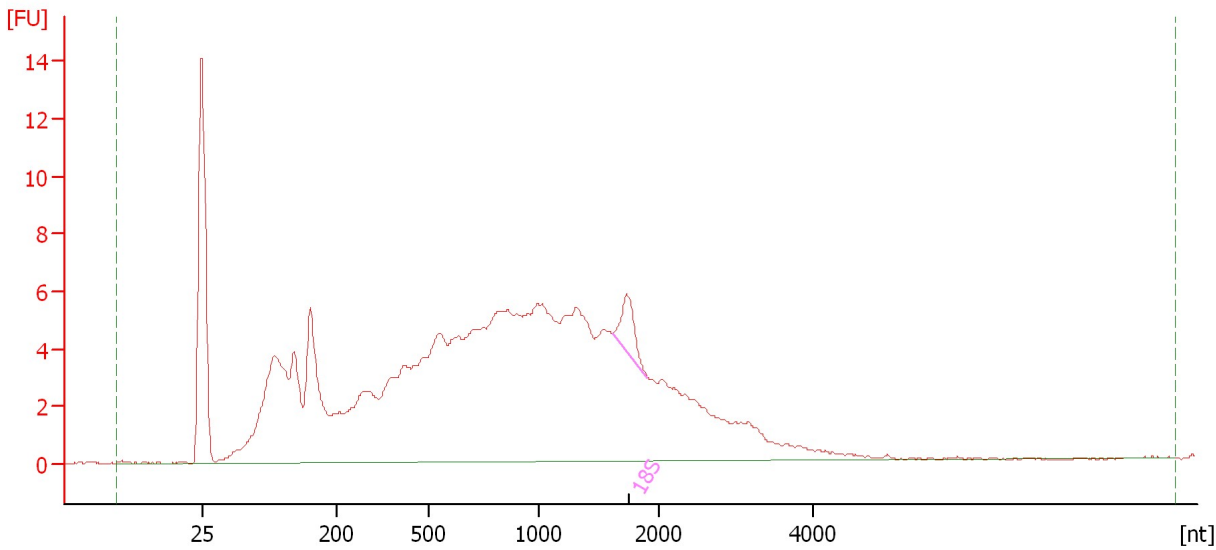
RNA Area:	182.9	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Electropherogram Summary Continued ...

Glob 13-18 (1/3)



Overall Results for sample 1 : Glob 13-18 (1/3)

RNA Area: 228.9 RNA Integrity Number (RIN): 3 (B.02.08)
RNA Concentration: 1,251 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN:3

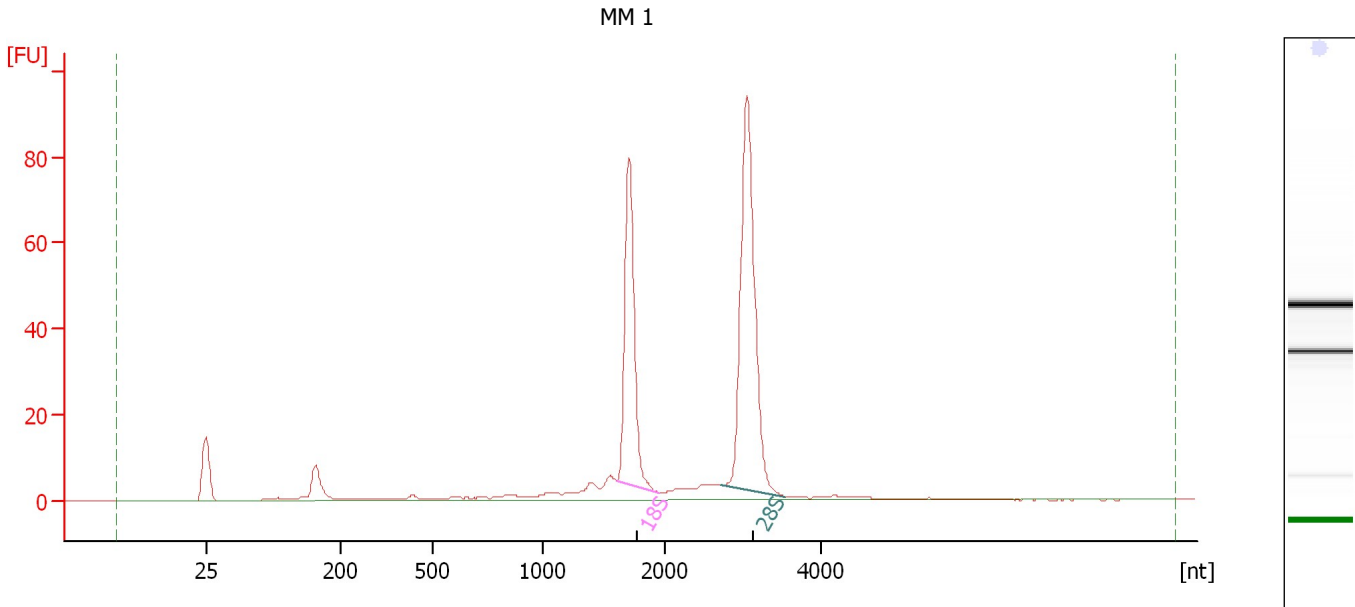
Fragment table for sample 1 : Glob 13-18 (1/3)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,897	3.2	1.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MM 1

RNA Area:	337.6	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	1,845 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.70

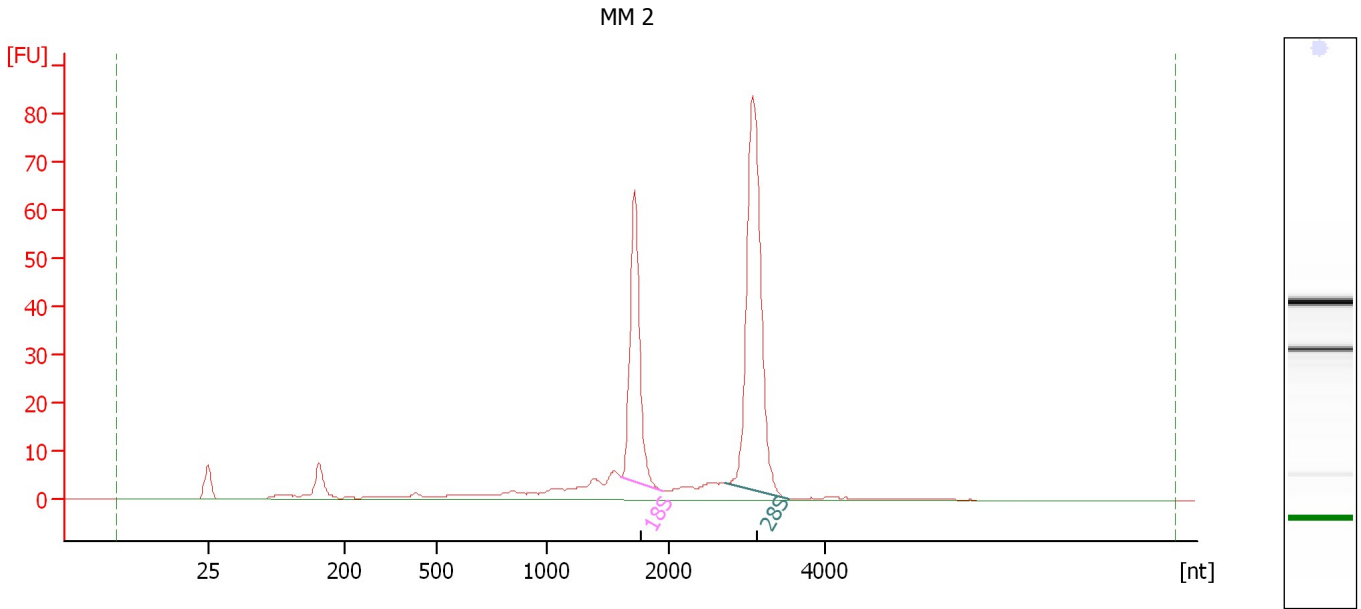
Fragment table for sample 2 : MM 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	1,944	86.5	25.6
28S	2,724	3,536	139.0	41.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MM 2

RNA Area:	319.4	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	1,746 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.40

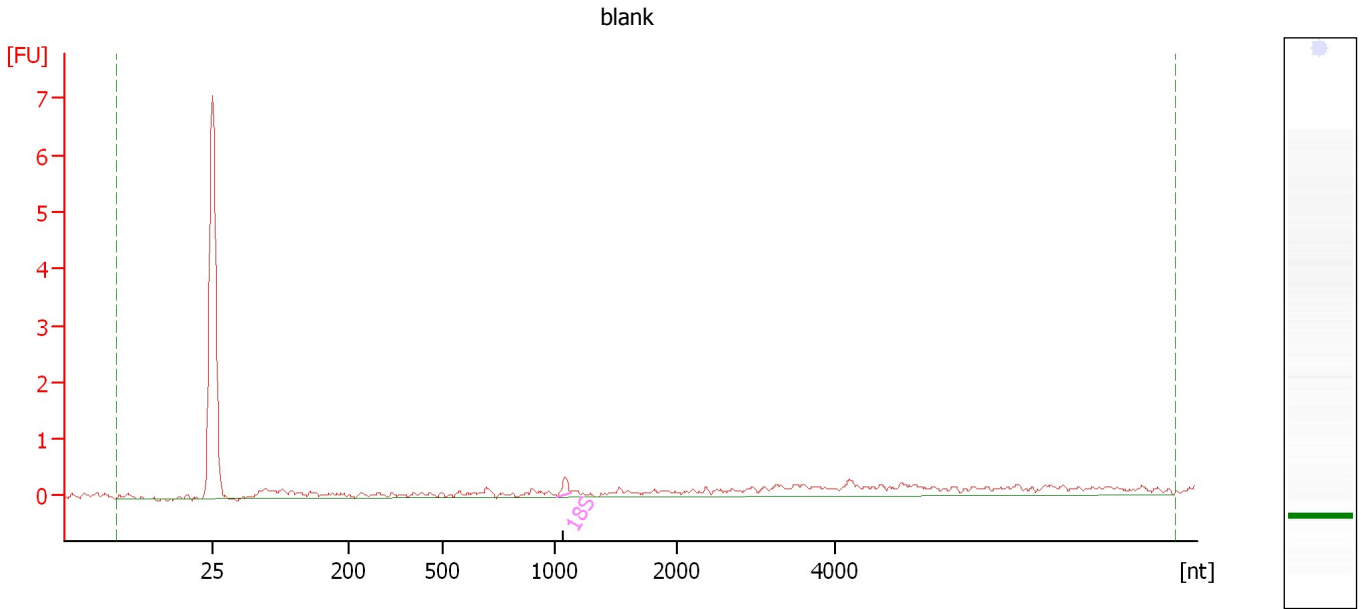
Fragment table for sample 3 : MM 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,946	72.8	22.8
28S	2,710	3,518	127.4	39.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : blank

RNA Area:	8.9	RNA Integrity Number (RIN):	5.4 (B.02.08)
RNA Concentration:	49 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.40

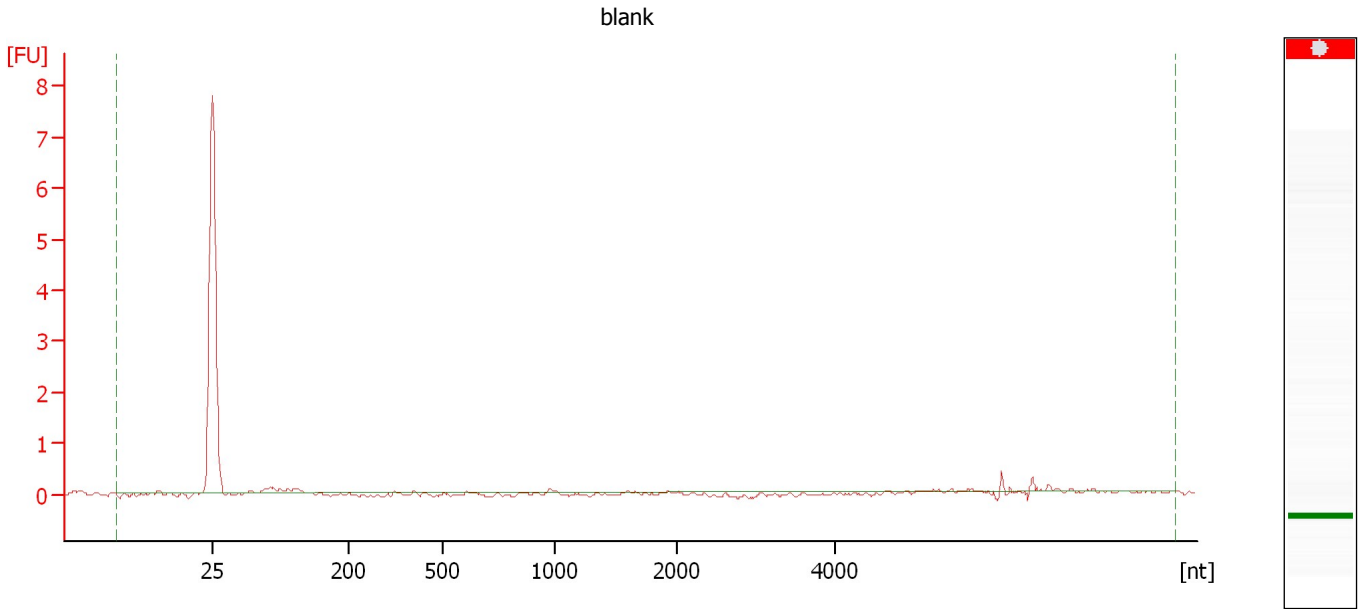
Fragment table for sample 4 : blank

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,022	1,126	0.2	2.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Electropherogram Summary Continued ...



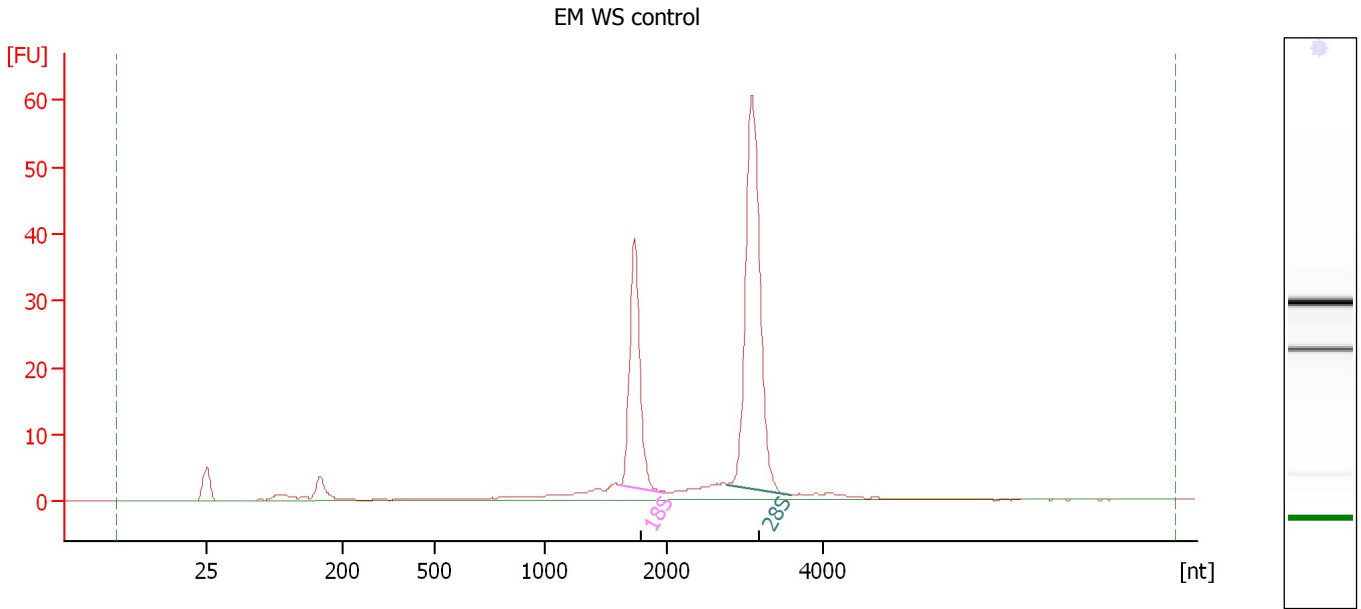
Overall Results for sample 5 : blank

RNA Area:	1.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 pg/μl	Result Flagging Color:	<input type="checkbox"/>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
 Modified: 8/21/2013 11:41:21 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : EM WS control

RNA Area:	206.4	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	1,128 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.90

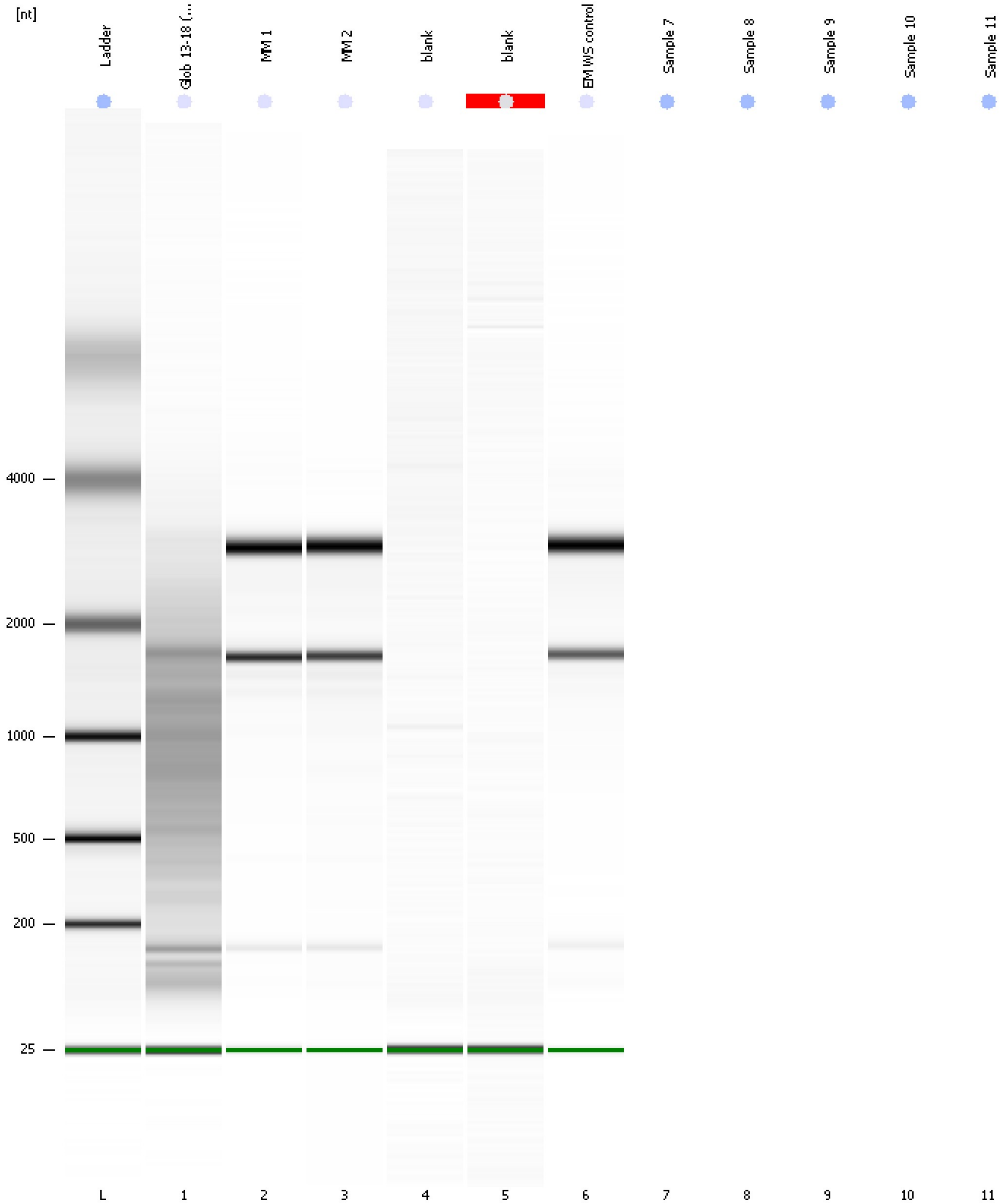
Fragment table for sample 6 : EM WS control

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,980	47.2	22.9
28S	2,765	3,575	93.1	45.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
Modified: 8/21/2013 11:41:21 AM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad

Created: 8/21/2013 11:25:34 AM
 Modified: 8/21/2013 11:41:21 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		8/21/2013 11:41:19 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-21\2013-08-21_002.xad)		Instrument	Run		8/21/2013 11:25:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/21/2013 11:25:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/21/2013 11:25:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/21/2013 11:25:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/21/2013 11:25:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/21/2013 11:25:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/21/2013 11:25:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1