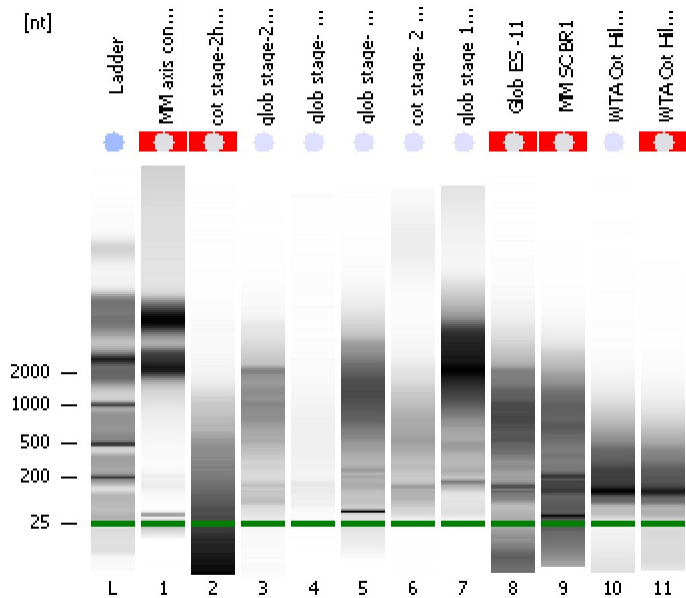


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

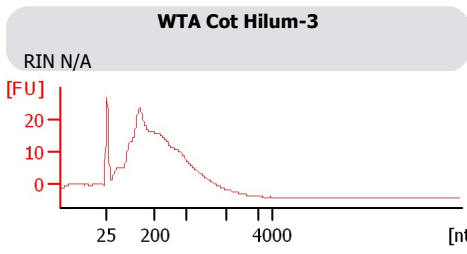
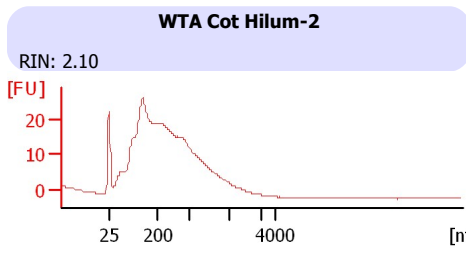
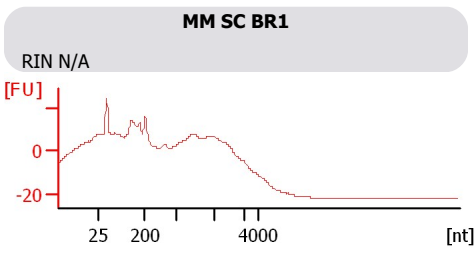
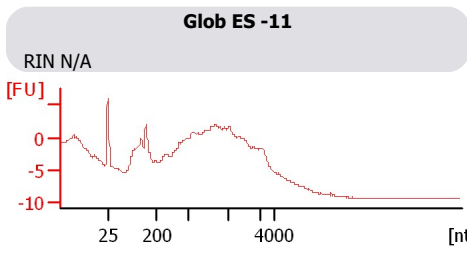
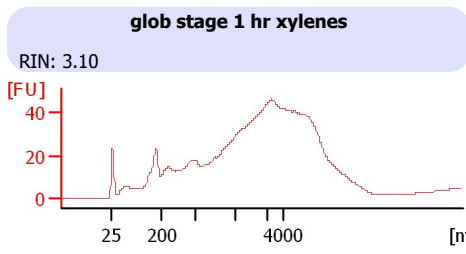
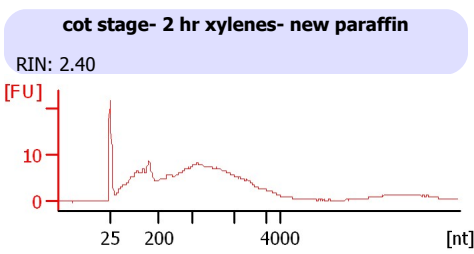
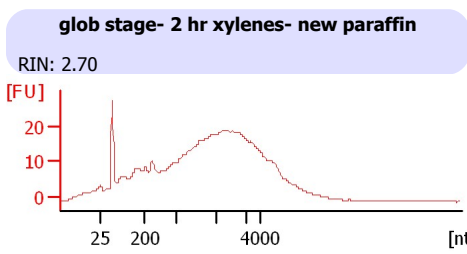
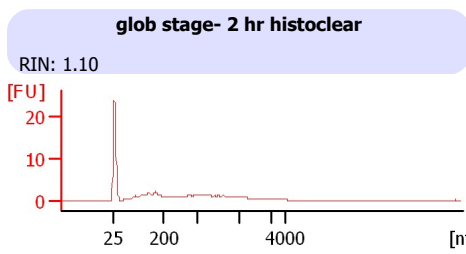
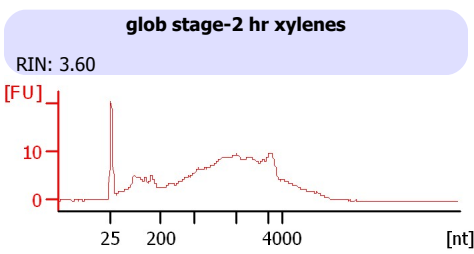
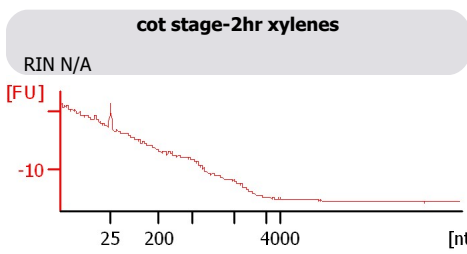
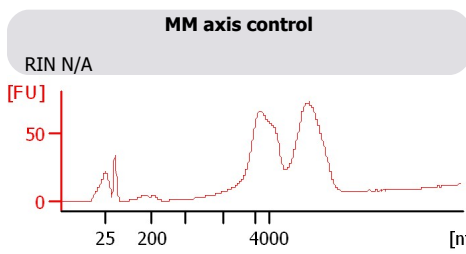
Electrophoresis File Run Summary



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:



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
 Modified: 4/3/2013 1:01:45 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
MM axis control		✓	RIN N/A	
cot stage-2hr xylenes		✓	RIN N/A	
glob stage-2 hr xylenes		✓	RIN: 3.60	
glob stage- 2 hr histoclear		✓	RIN: 1.10	
glob stage- 2 hr xylenes- new paraffin		✓	RIN: 2.70	
cot stage- 2 hr xylenes- new paraffin		✓	RIN: 2.40	
glob stage 1 hr xylenes		✓	RIN: 3.10	
Glob ES -11		✓	RIN N/A	
MM SC BR1		✓	RIN N/A	
WTA Cot Hilum-2		✓	RIN: 2.10	
WTA Cot Hilum-3		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 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/ 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

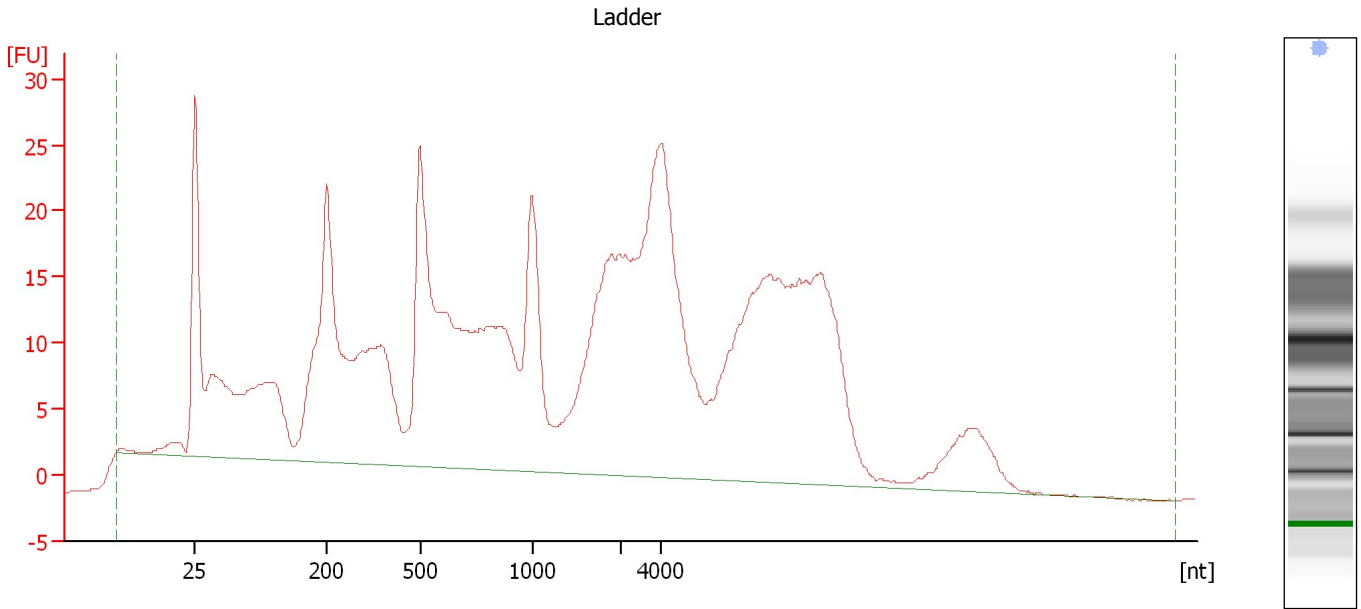
Ladder

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\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary



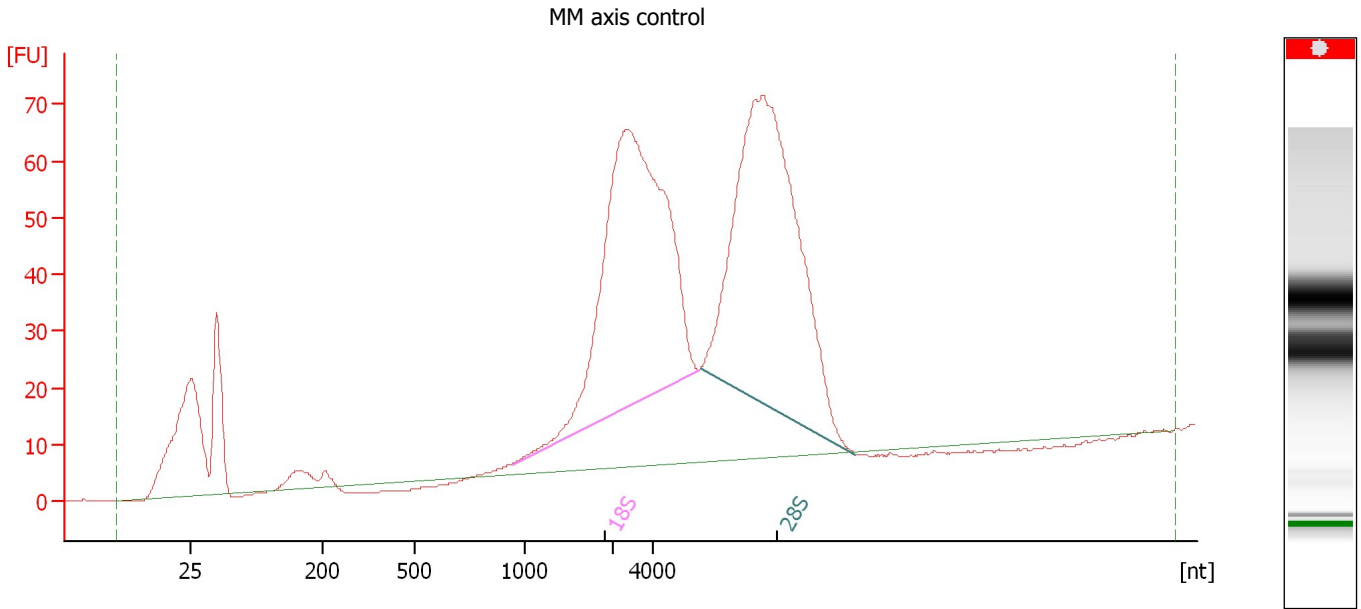
Overall Results for Ladder

RNA Area:	852.3	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\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
 Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : MM axis control

RNA Area:	1,143.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,342 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN N/A

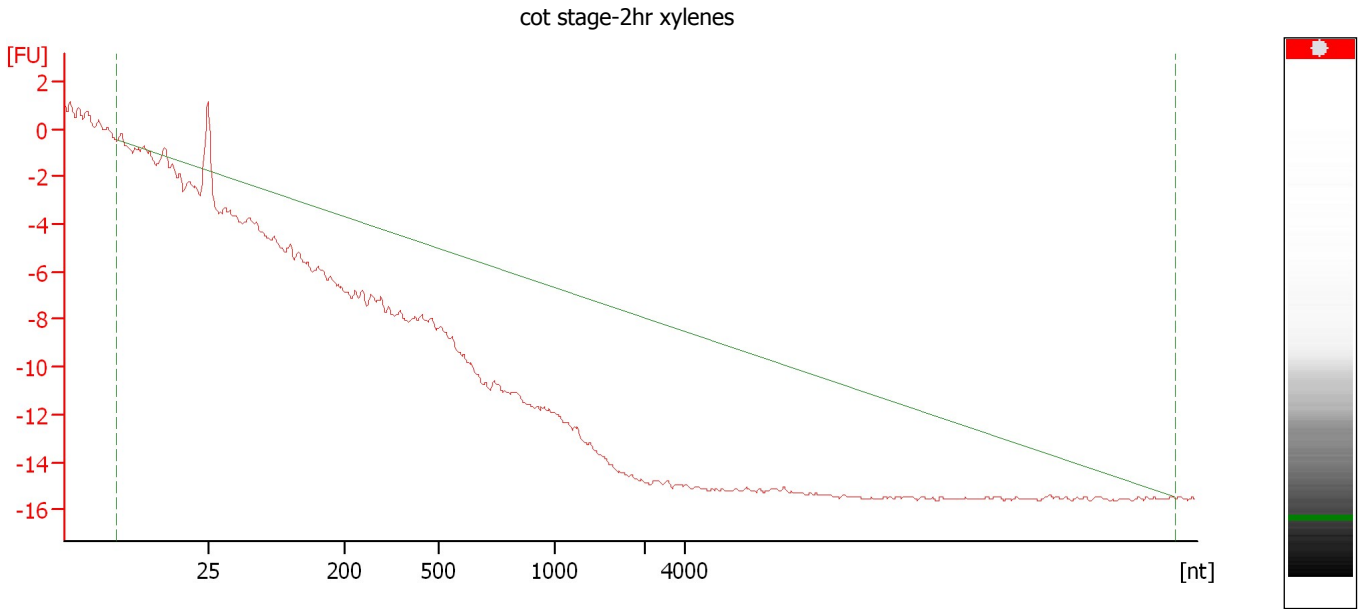
Fragment table for sample 1 : MM axis control

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	941	6,270	374.9	32.8
28S	6,376	14,021	381.8	33.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...



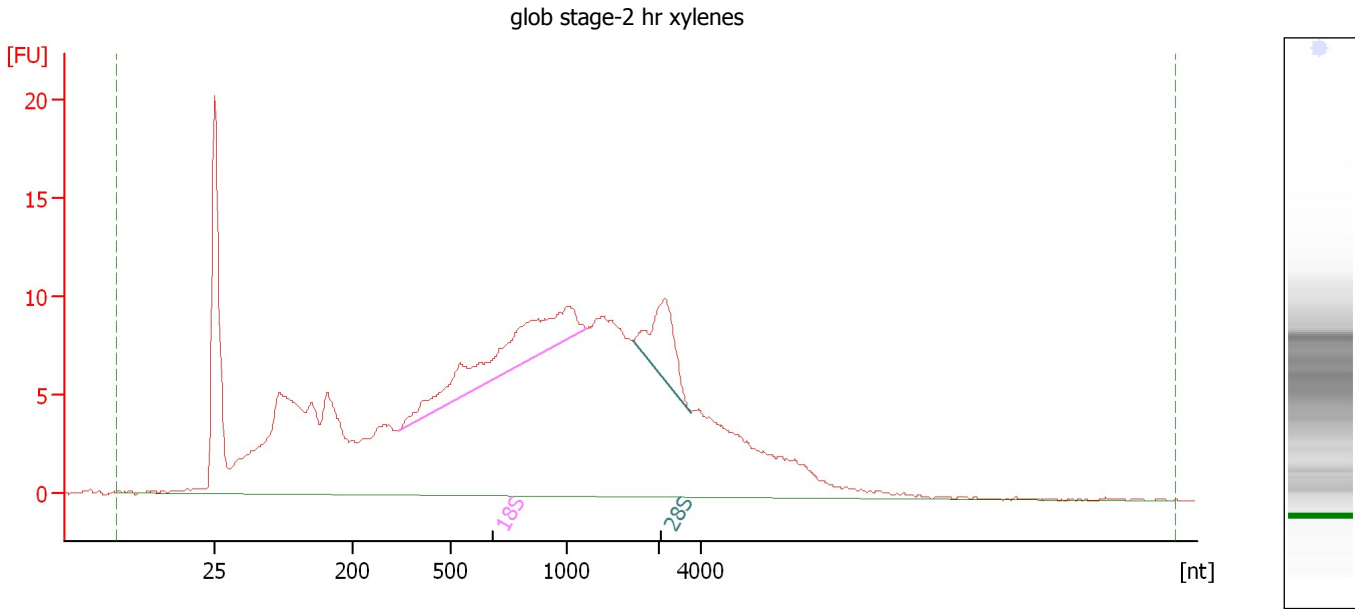
Overall Results for sample 2 : cot stage-2hr xylenes

RNA Area:	0.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 pg/ μ l	Result Flagging Color:	
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\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : glob stage-2 hr xylenes

RNA Area: 389.3 RNA Integrity Number (RIN): 3.6 (B.02.08)
RNA Concentration: 457 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 3.60

Fragment table for sample 3 : glob stage-2 hr xylenes

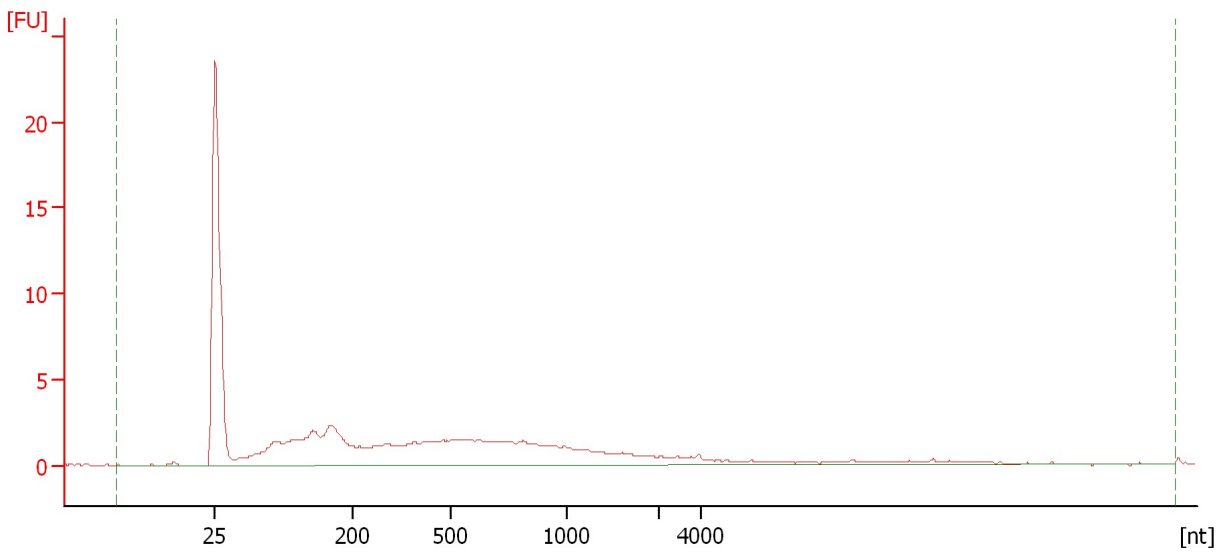
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	342	1,222	27.9	7.2
28S	1,714	3,601	11.3	2.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...

glob stage- 2 hr histoclear



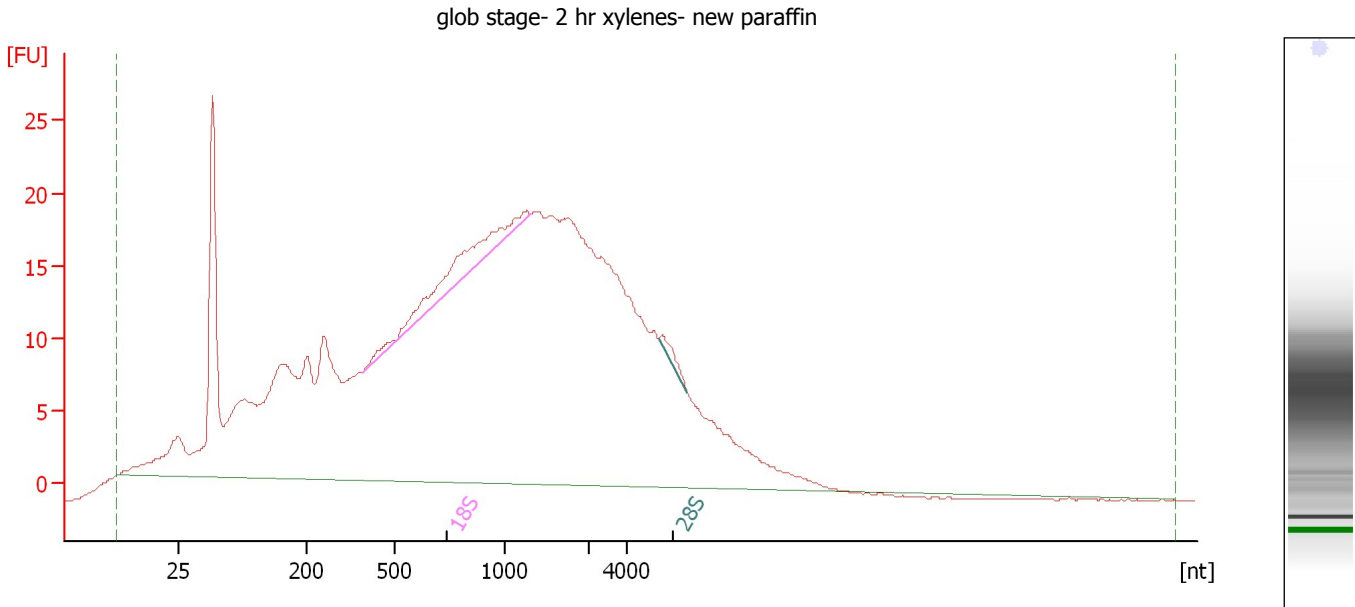
Overall Results for sample 4 : glob stage- 2 hr histoclear

RNA Area:	72.4	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	85 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
 Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : glob stage- 2 hr xylenes- new paraffin

RNA Area:	815.9	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	957 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.70

Fragment table for sample 5 : glob stage- 2 hr xylenes- new paraffin

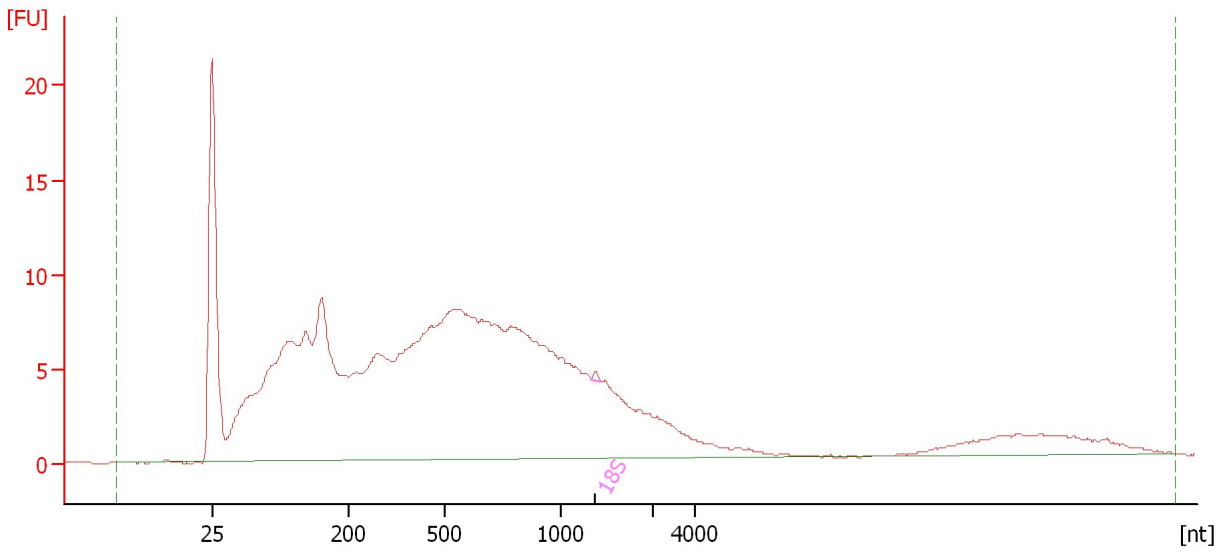
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	390	1,327	20.3	2.5
28S	5,584	7,056	1.9	0.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...

cot stage- 2 hr xylenes- new paraffin



Overall Results for sample 6 : cot stage- 2 hr xylenes- new paraffin

RNA Area:	343.6	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	403 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

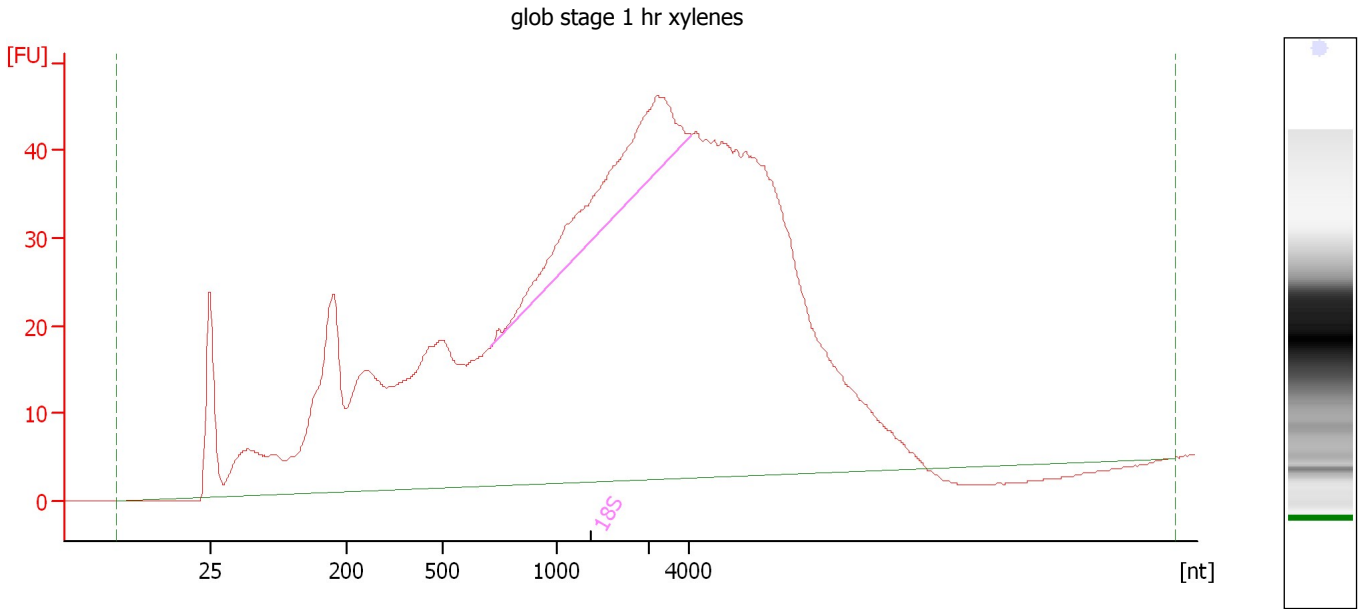
Fragment table for sample 6 : cot stage- 2 hr xylenes- new paraffin

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,330	1,425	0.3	0.1

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
 Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : glob stage 1 hr xylenes

RNA Area:	1,593.0	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	1,869 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.10

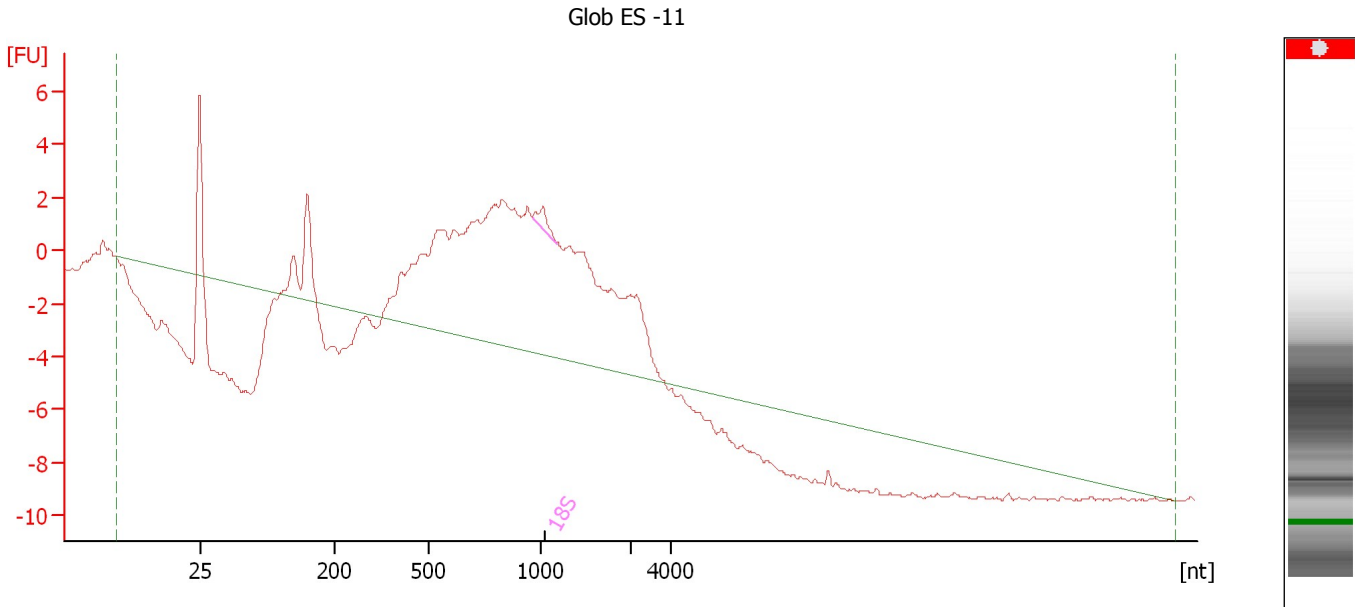
Fragment table for sample 7 : glob stage 1 hr xylenes

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	710	4,092	92.6	5.8

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
 Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Glob ES -11

RNA Area:	128.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	150 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

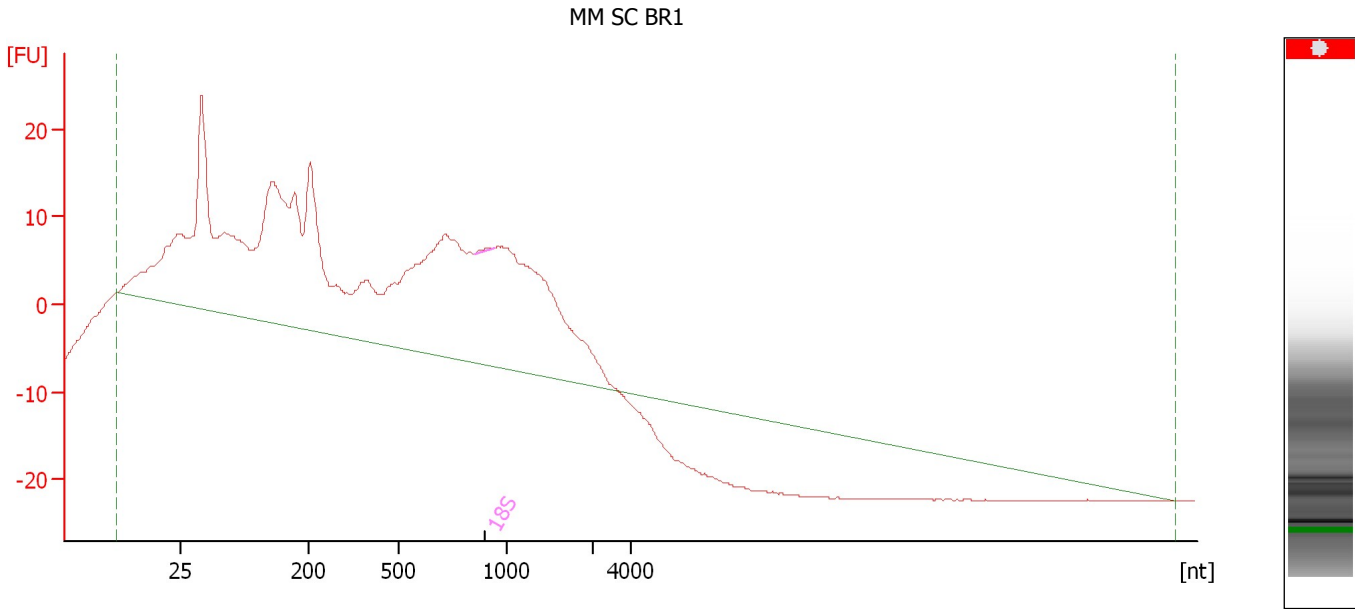
Fragment table for sample 8 : Glob ES -11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	960	1,163	1.0	0.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MM SC BR1

RNA Area:	635.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	745 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Fragment table for sample 9 : MM SC BR1

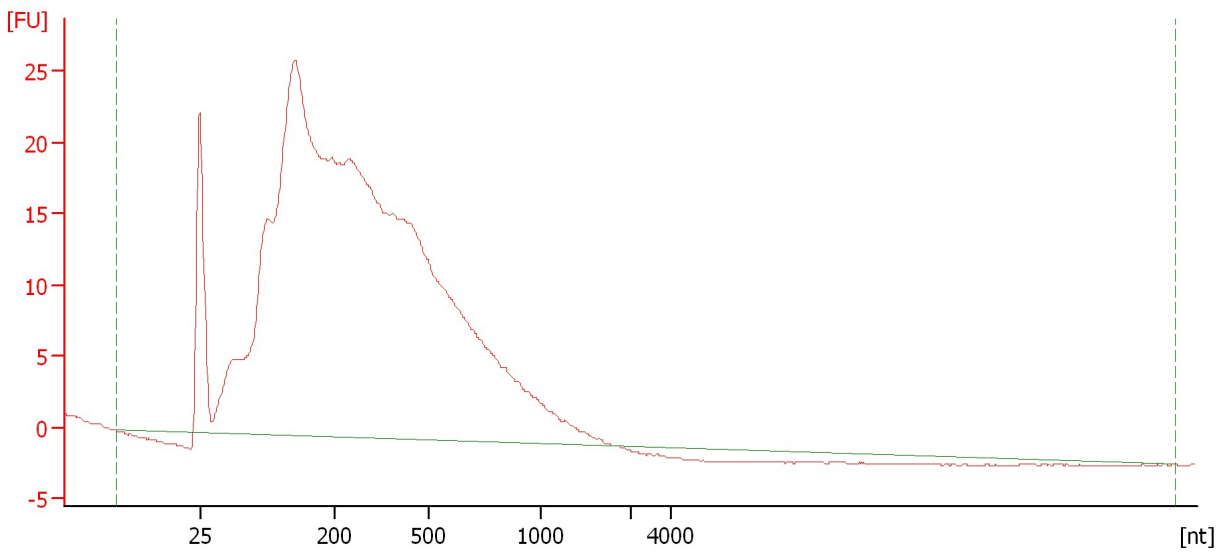
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	848	938	0.5	0.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...

WTA Cot Hilum-2



Overall Results for sample 10 : WTA Cot Hilum-2

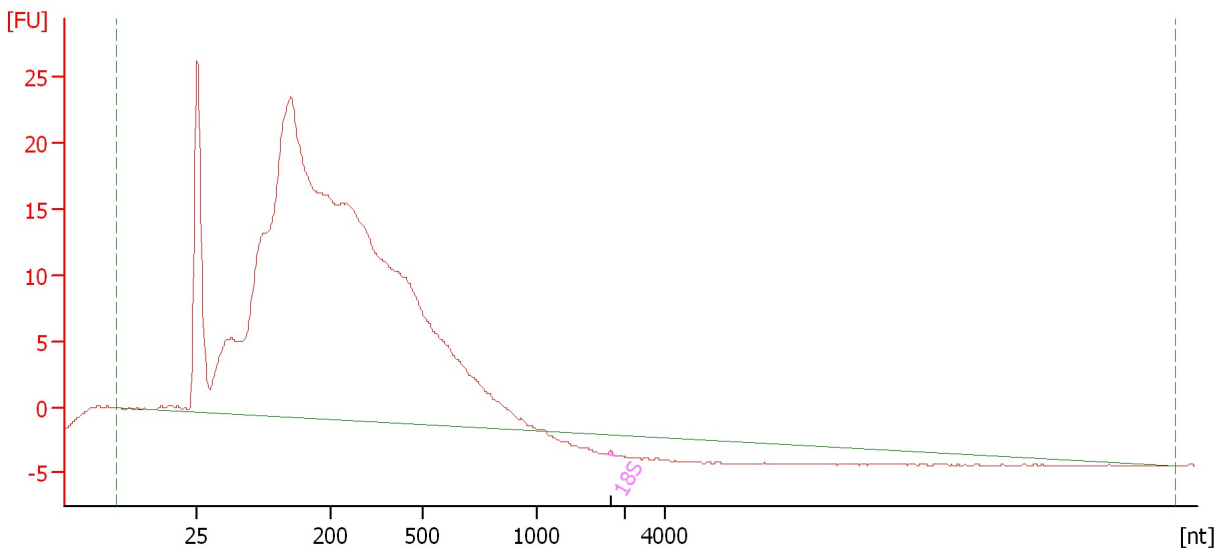
RNA Area:	636.0	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	746 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Electropherogram Summary Continued ...

WTA Cot Hilum-3



Overall Results for sample 11 : WTA Cot Hilum-3

RNA Area:	510.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	599 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

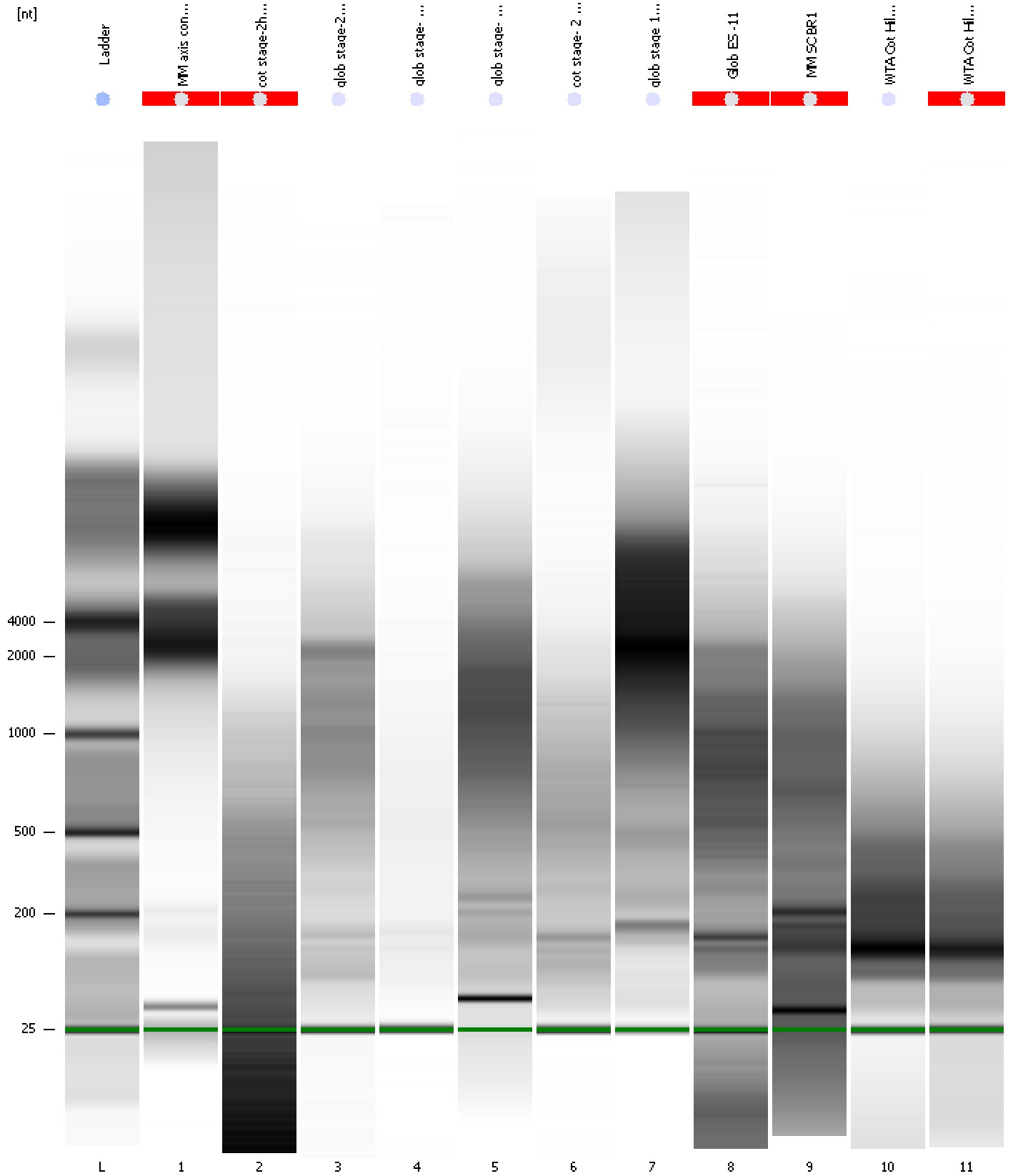
Fragment table for sample 11 : WTA Cot Hilum-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,796	1,906	0.2	0.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Gel Image

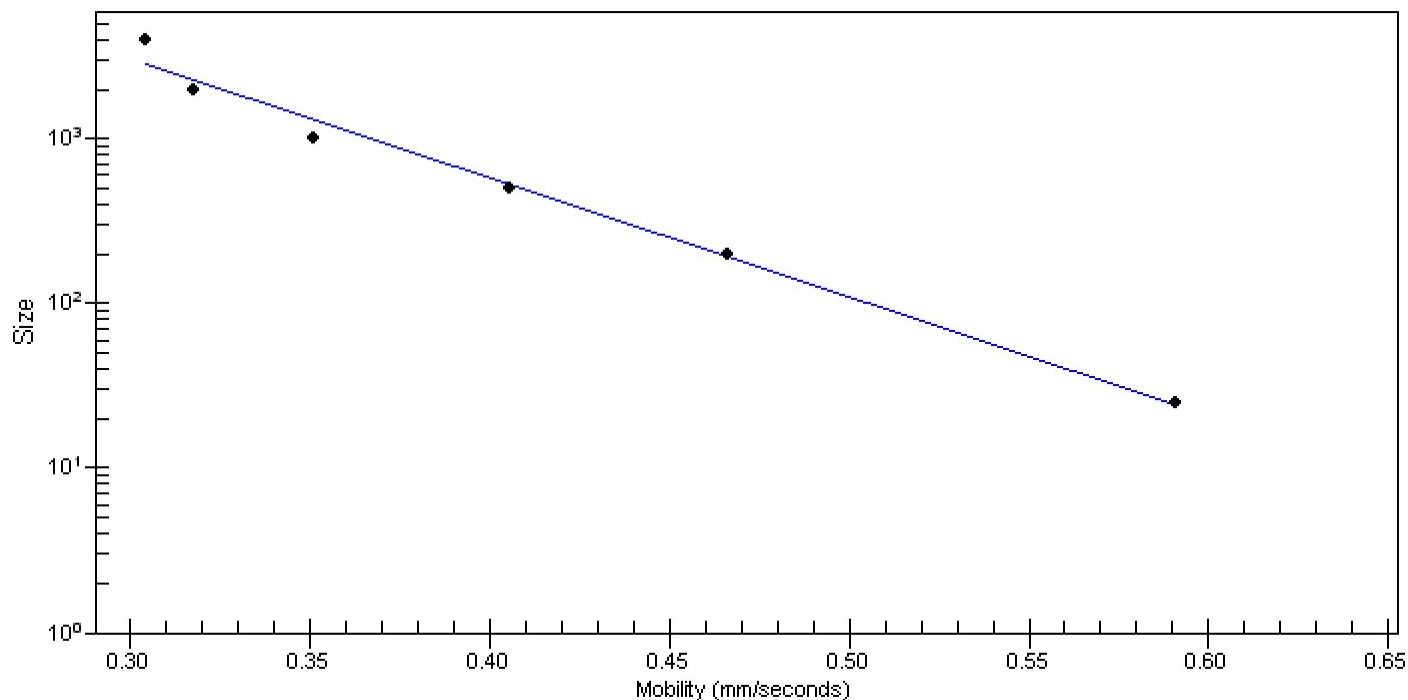


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
Modified: 4/3/2013 1:01:45 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad

Created: 4/3/2013 12:38:50 PM
 Modified: 4/3/2013 1:01:45 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		4/3/2013 1:01:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-04-03\2013-04-03_003.xad)		Instrument	Run		4/3/2013 12:38:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/3/2013 12:38:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/3/2013 12:38:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/3/2013 12:38:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/3/2013 12:38:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/3/2013 12:38:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/3/2013 12:38:56 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1