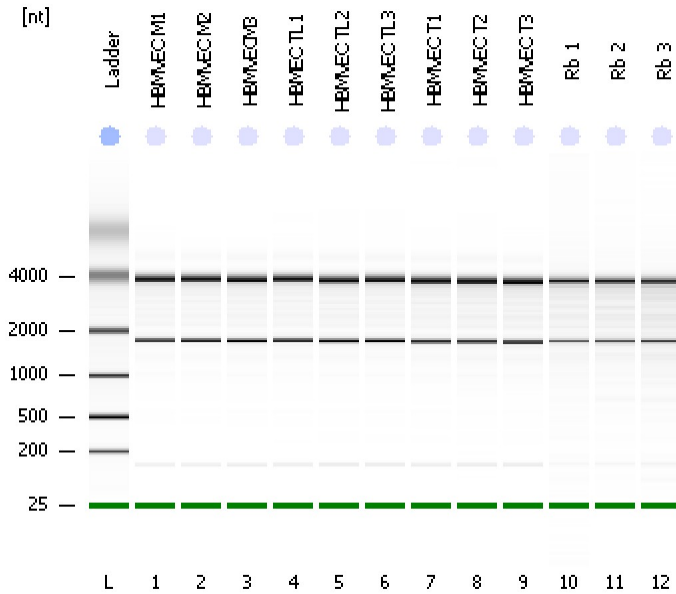


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electrophoresis File Run Summary



Instrument Information:

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

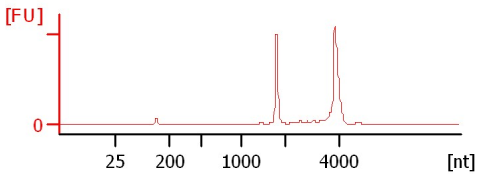
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

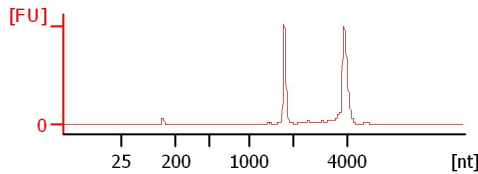
Chip Information:

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

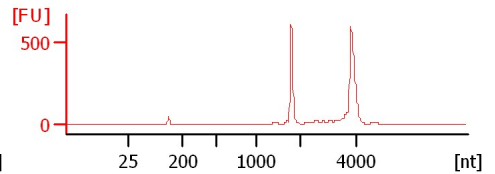
HBMVEC M1
RIN: 9.90



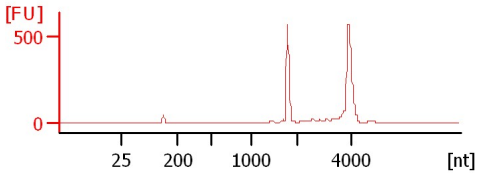
HBMVEC M2
RIN: 9.70



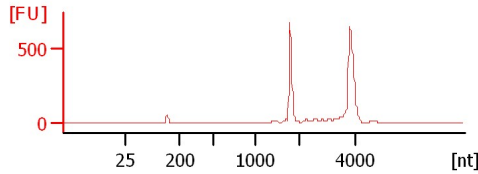
HBMVECM3
RIN: 9.70



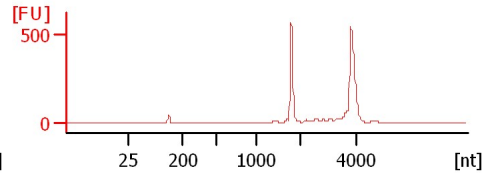
HBMEC TL1
RIN: 9.70



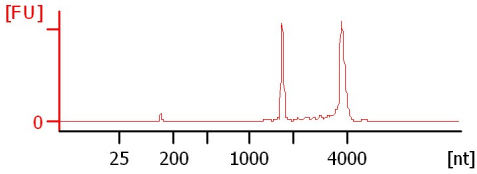
HBMVEC TL2
RIN: 9.60



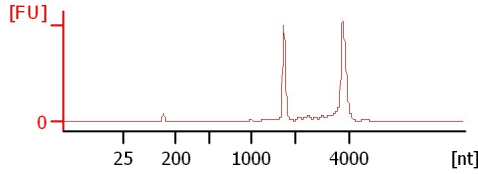
HBMVEC TL3
RIN: 9.60



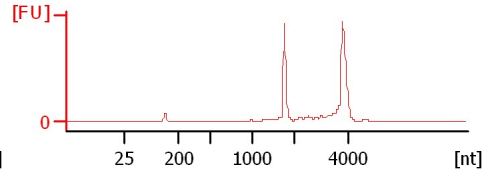
HBMVEC T1
RIN: 9.60



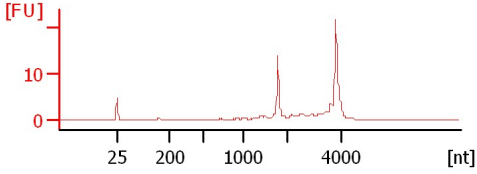
HBMVEC T2
RIN: 9.50



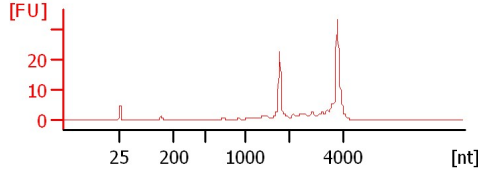
HBMVEC T3
RIN: 9.50



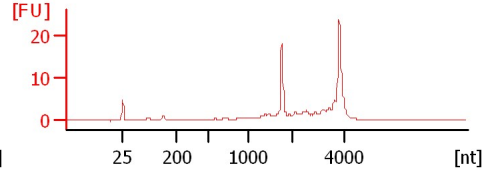
Rb 1
RIN: 9.40



Rb 2
RIN: 9.40



Rb 3
RIN: 8.40



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
 Modified: 3/20/2014 10:24:20 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
HBMVEC M1		✓	RIN: 9.90	
HBMVEC M2		✓	RIN: 9.70	
HBMVECM3		✓	RIN: 9.70	
HBMEC TL1		✓	RIN: 9.70	
HBMVEC TL2		✓	RIN: 9.60	
HBMVEC TL3		✓	RIN: 9.60	
HBMVEC T1		✓	RIN: 9.60	
HBMVEC T2		✓	RIN: 9.50	
HBMVEC T3		✓	RIN: 9.50	
Rb 1		✓	RIN: 9.40	
Rb 2		✓	RIN: 9.40	
Rb 3		✓	RIN: 8.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

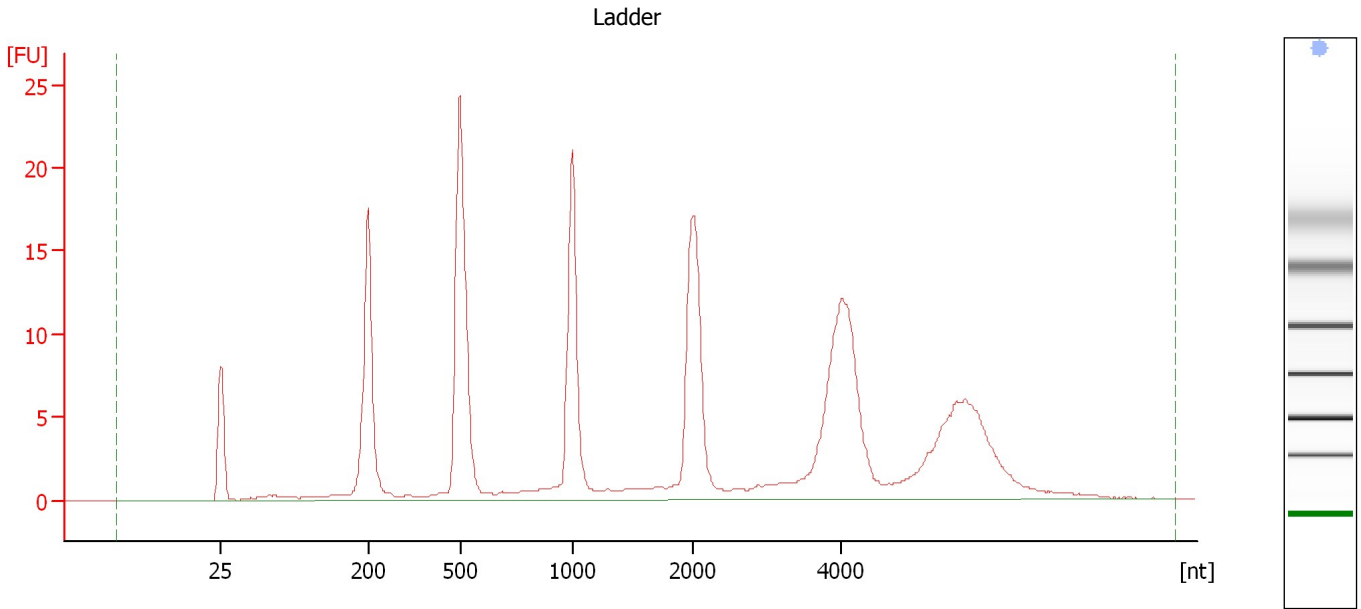
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary



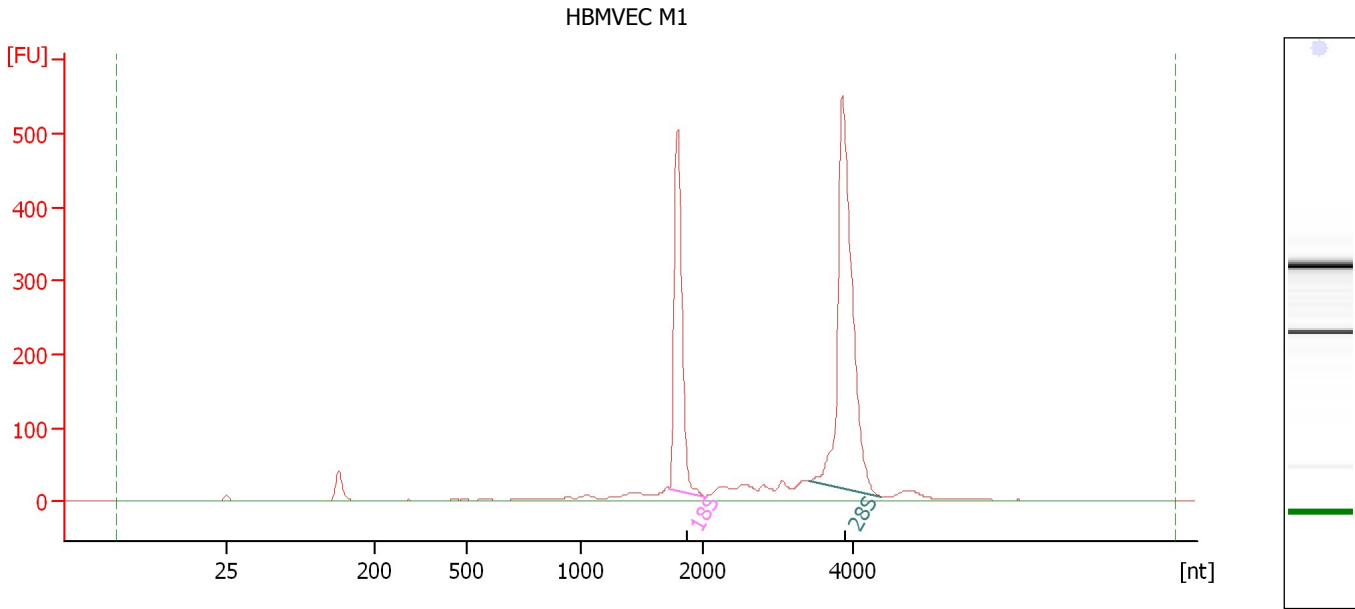
Overall Results for Ladder

RNA Area:	213.5	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HBMVEC M1

RNA Area: 1,765.5 RNA Integrity Number (RIN): 9.9 (B.02.08)
RNA Concentration: 1,240 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 9.90

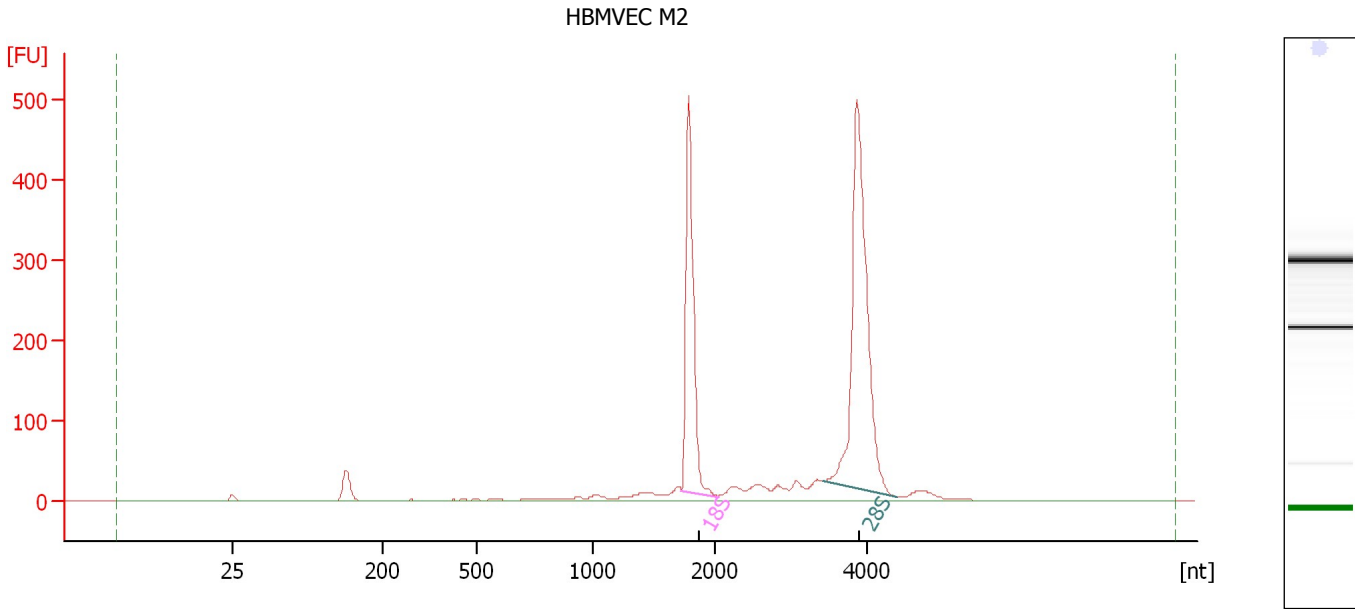
Fragment table for sample 1 : HBMVEC M1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,723	2,020	436.2	24.7
28S	3,416	4,370	779.6	44.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HBMVEC M2

RNA Area: 1,622.8 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 1,140 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.70

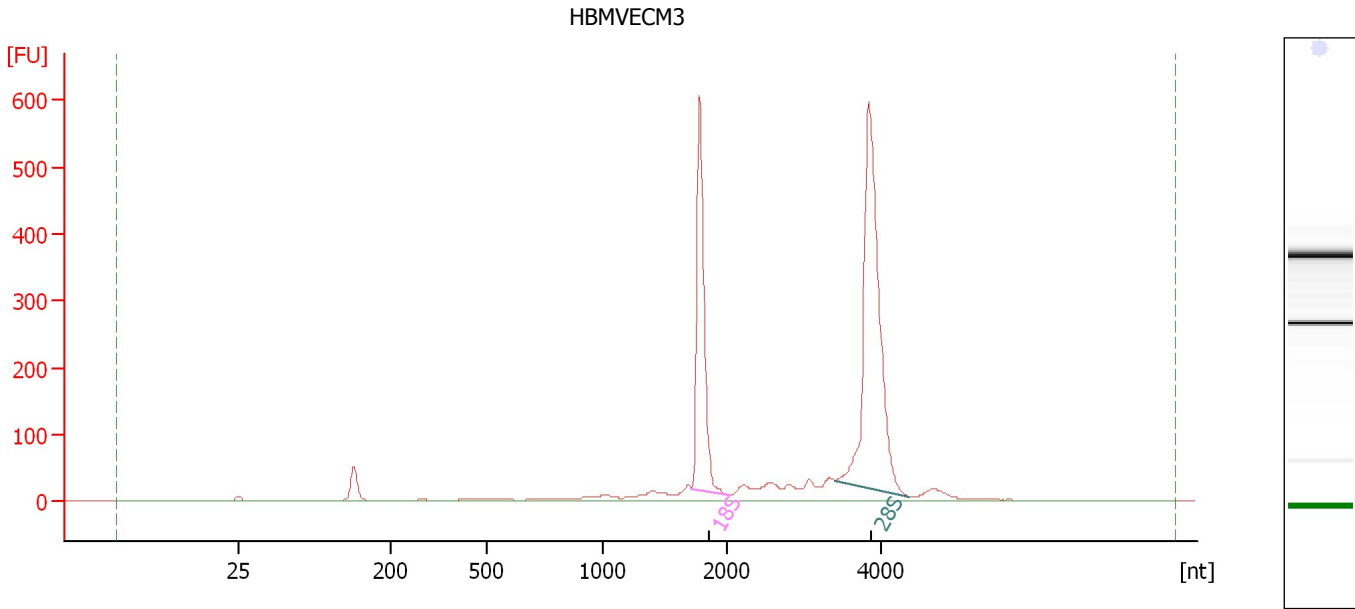
Fragment table for sample 2 : HBMVEC M2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,723	2,028	419.6	25.9
28S	3,421	4,392	706.7	43.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HBMVECM3

RNA Area: 2,034.7 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 1,429 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.70

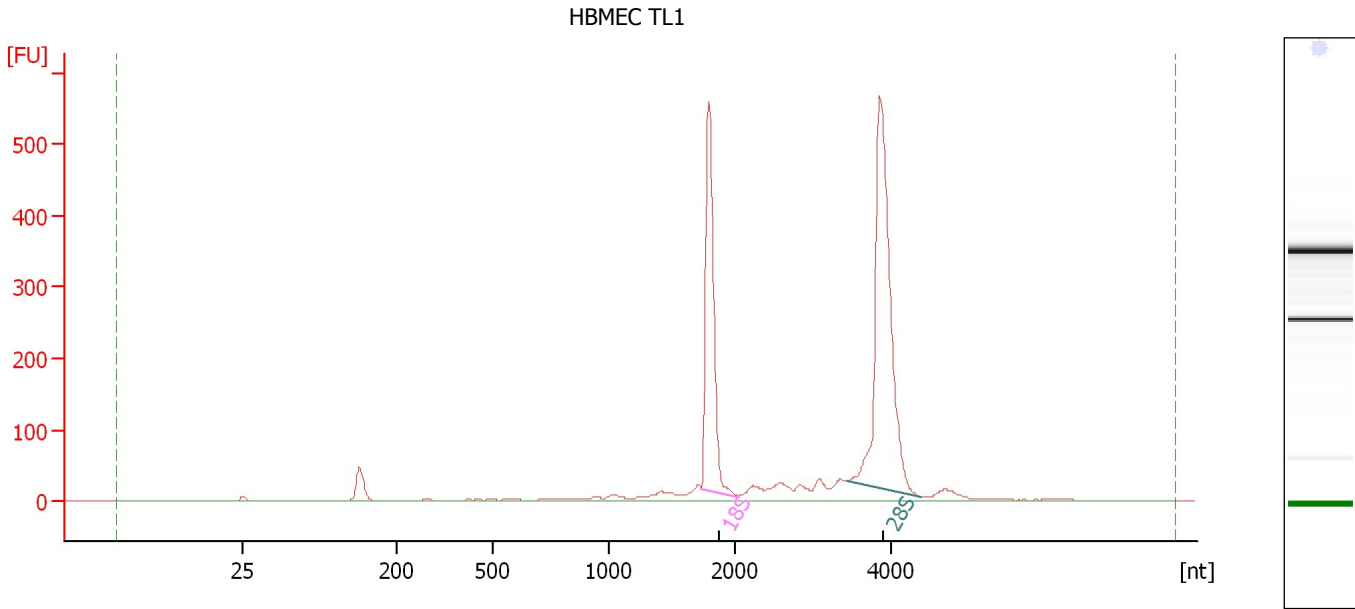
Fragment table for sample 3 : HBMVECM3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,714	2,007	516.4	25.4
28S	3,398	4,357	857.4	42.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HBMEC TL1

RNA Area:	1,864.8	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	1,310 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.70

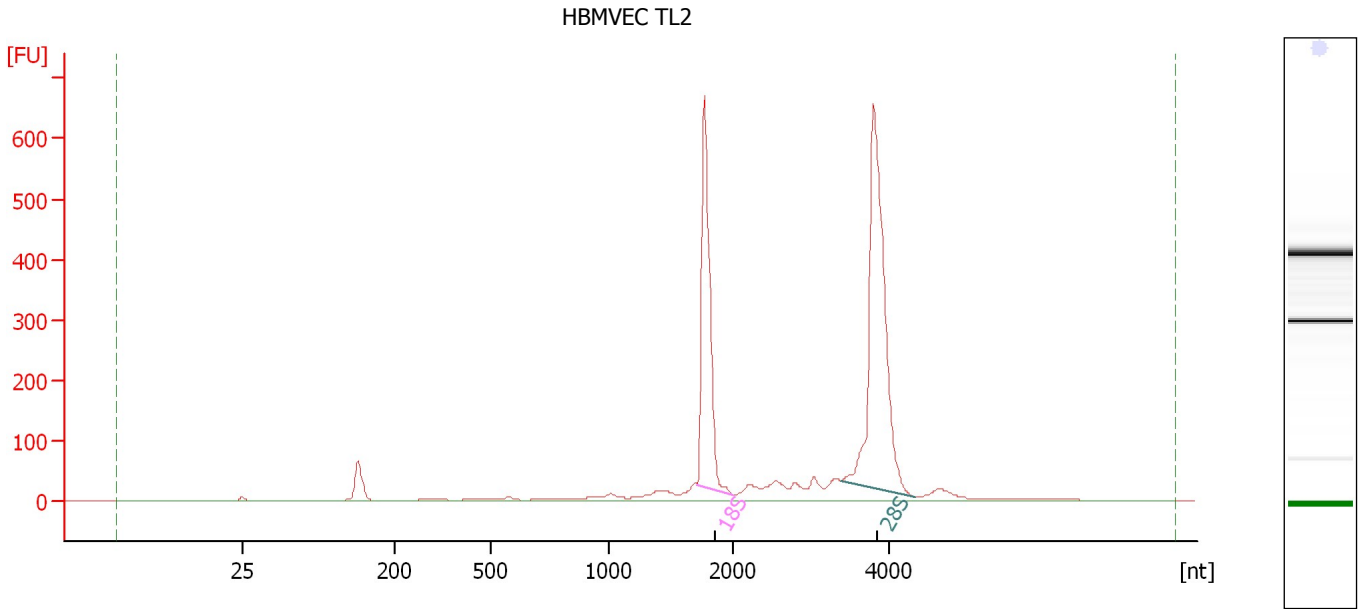
Fragment table for sample 4 : HBMEC TL1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	2,026	473.6	25.4
28S	3,433	4,399	795.3	42.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HBMVEC TL2

RNA Area:	2,337.7	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	1,642 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.60

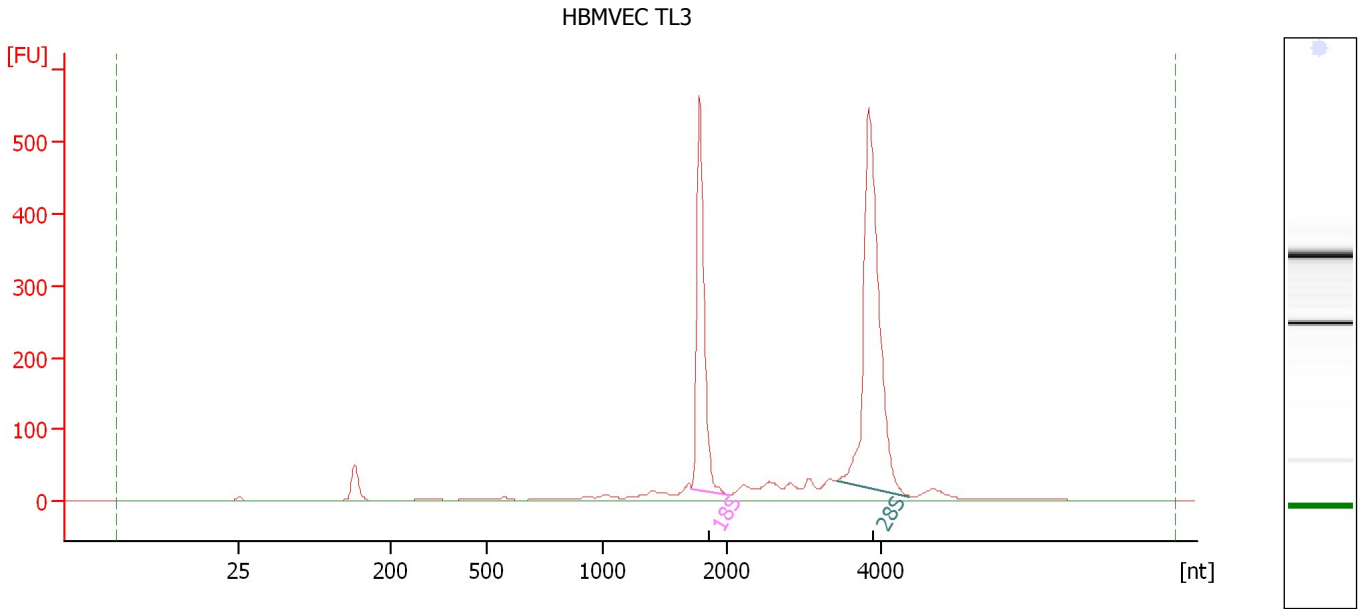
Fragment table for sample 5 : HBMVEC TL2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,709	1,998	595.0	25.5
28S	3,393	4,333	947.1	40.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HBMVEC TL3

RNA Area:	1,902.6	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	1,337 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.60

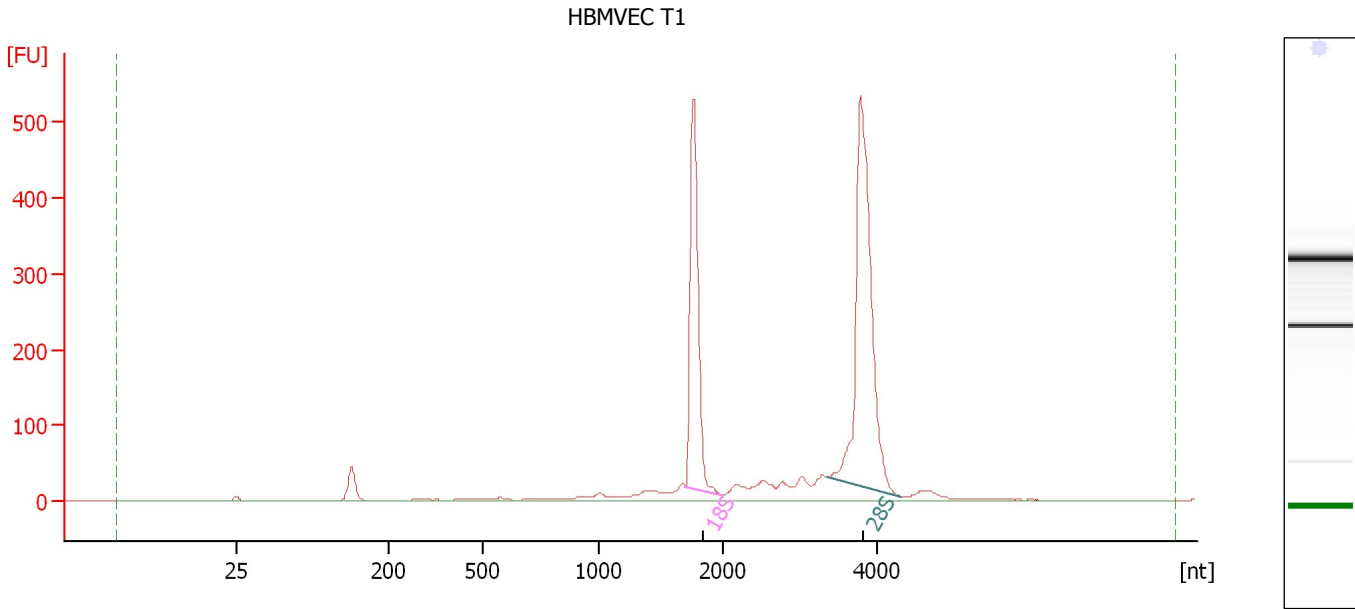
Fragment table for sample 6 : HBMVEC TL3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,714	2,007	483.0	25.4
28S	3,412	4,371	785.6	41.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HBMVEC T1

RNA Area:	1,854.1	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	1,302 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.60

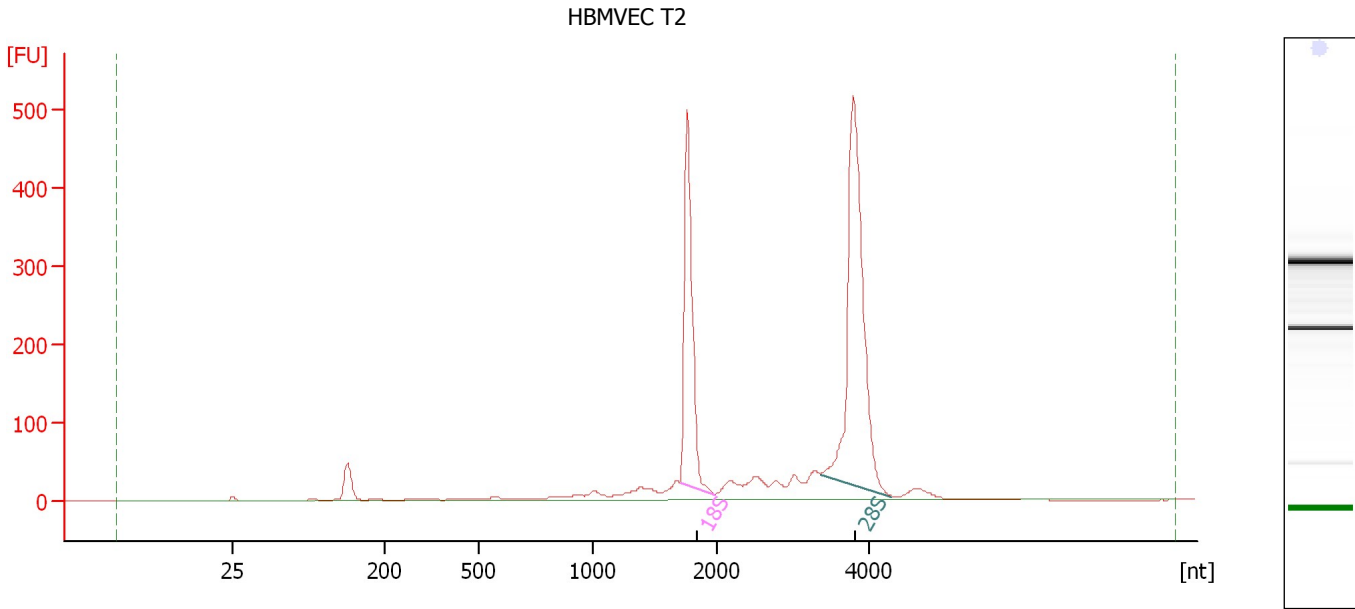
Fragment table for sample 7 : HBMVEC T1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	1,986	458.7	24.7
28S	3,359	4,308	769.8	41.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HBMVEC T2

RNA Area:	1,858.4	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	1,305 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

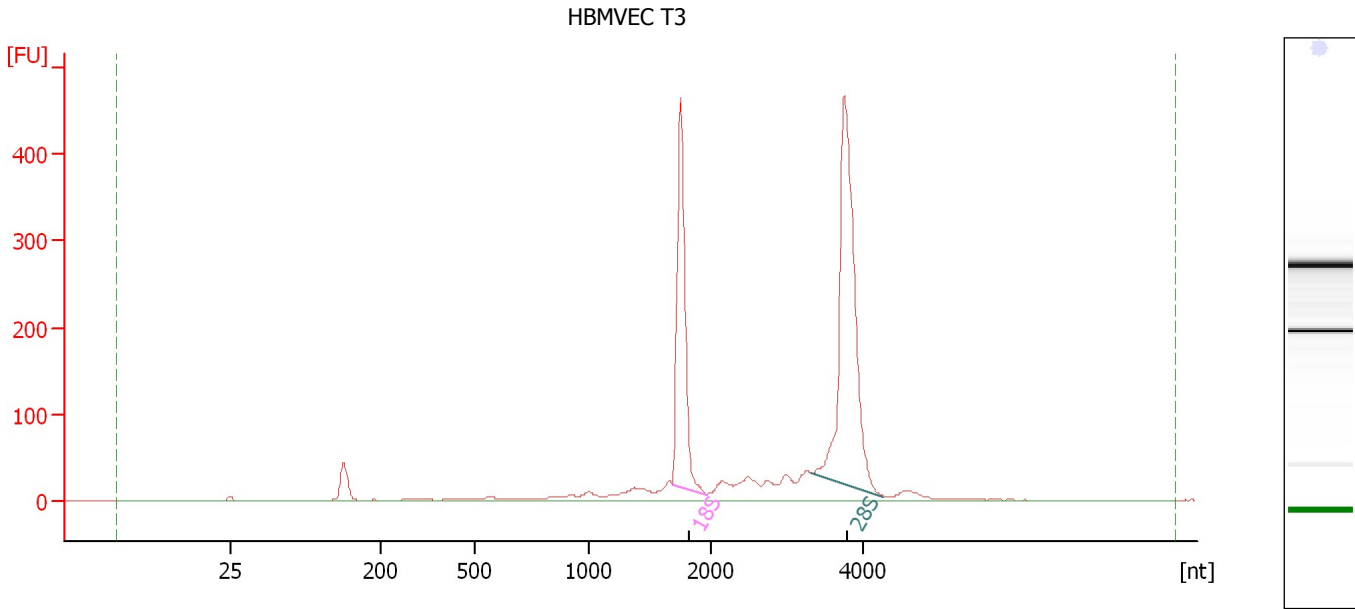
Fragment table for sample 8 : HBMVEC T2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,698	1,975	439.3	23.6
28S	3,349	4,290	737.2	39.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
 Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HBMVEC T3

RNA Area:	1,732.3	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	1,217 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.50

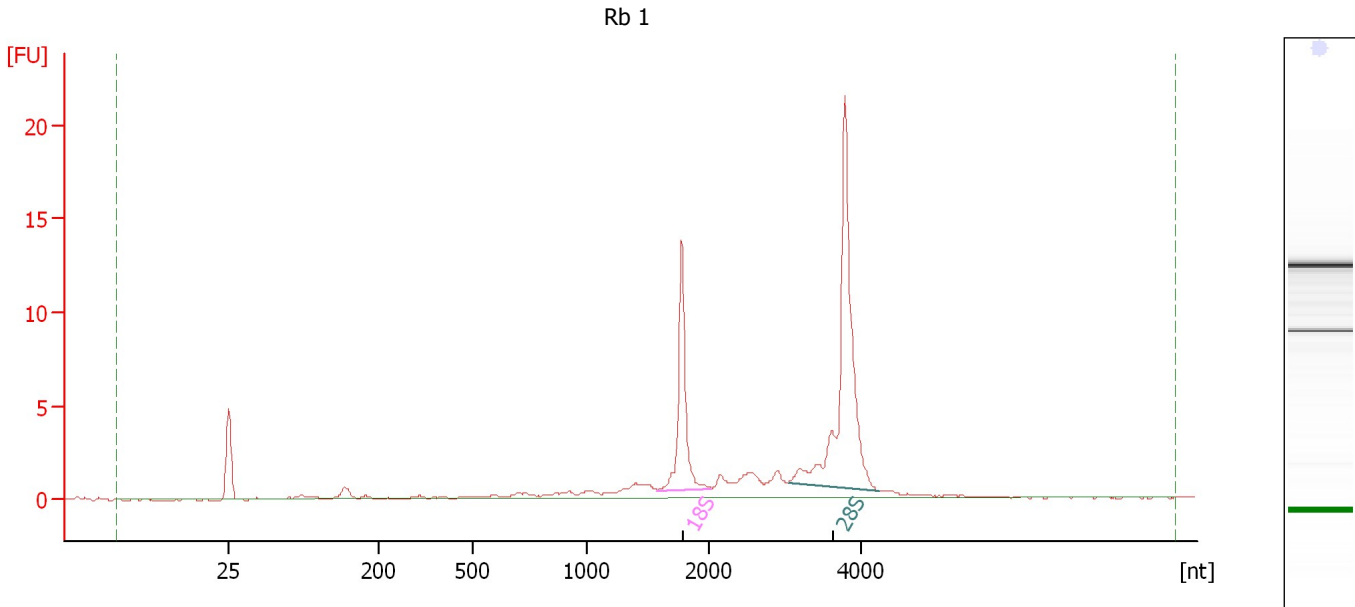
Fragment table for sample 9 : HBMVEC T3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,685	1,963	411.8	23.8
28S	3,325	4,272	681.3	39.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Rb 1

RNA Area:	61.6	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	43 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 9.40

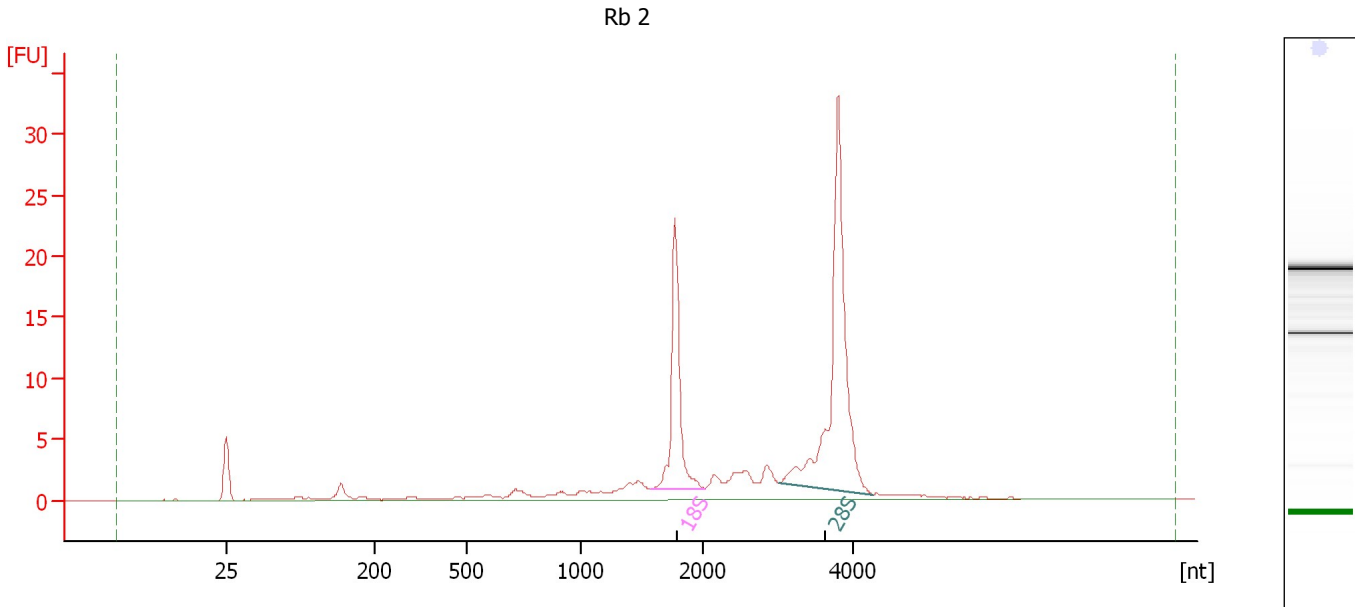
Fragment table for sample 10 : Rb 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	2,024	11.0	17.9
28S	3,043	4,261	25.7	41.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Rb 2

RNA Area:	113.0	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	79 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 9.40

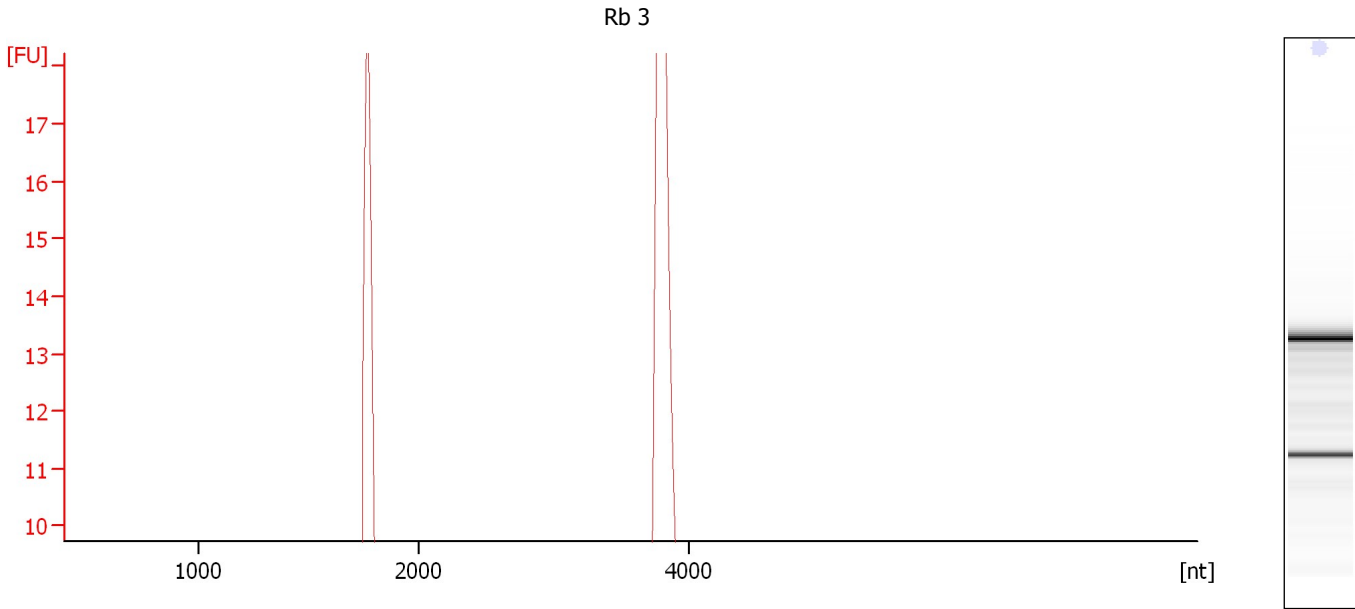
Fragment table for sample 11 : Rb 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,574	2,035	20.1	17.7
28S	3,003	4,271	43.6	38.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Rb 3

RNA Area:	96.9	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	68 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.40

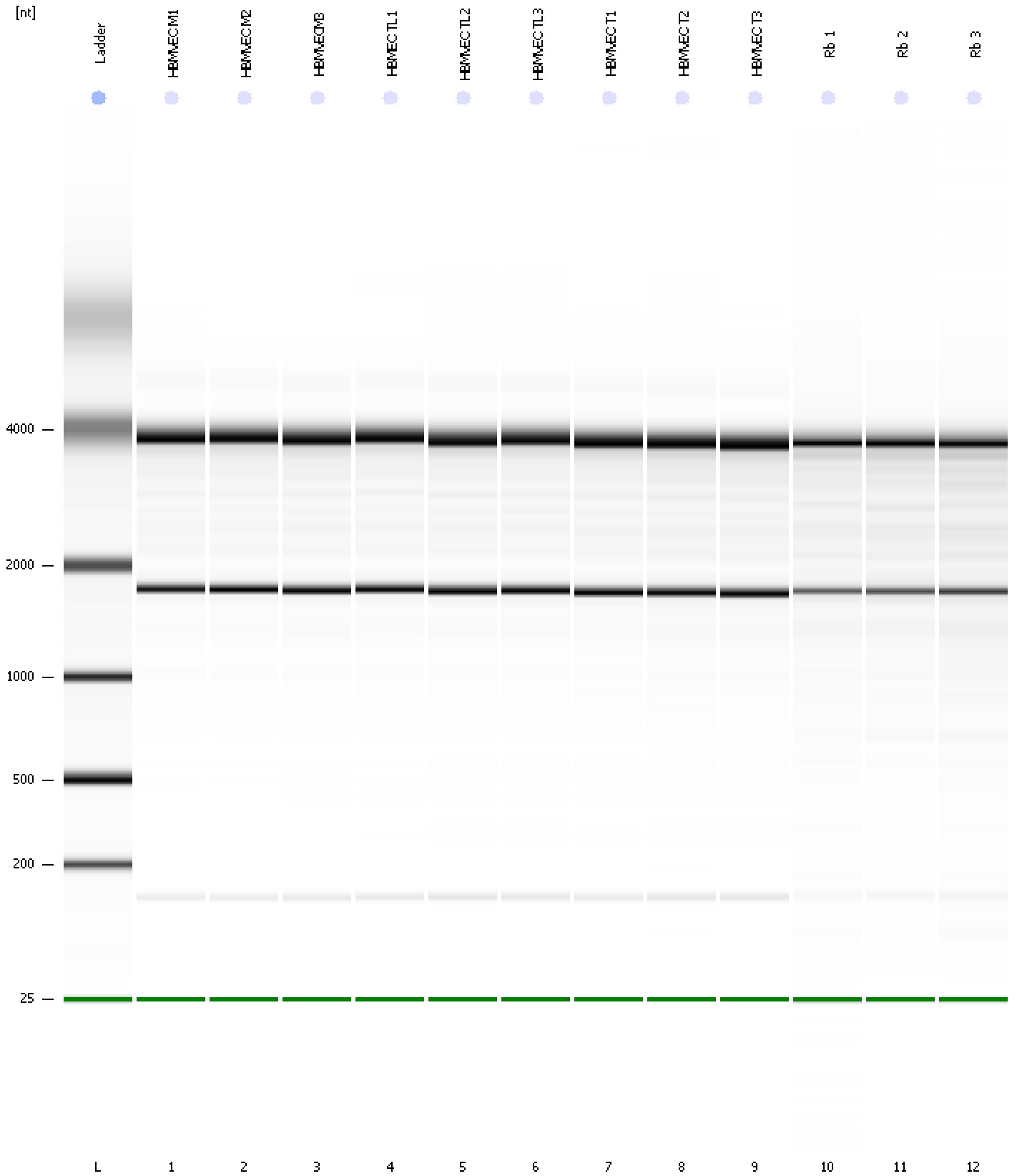
Fragment table for sample 12 : Rb 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	2,005	15.1	15.6
28S	3,503	4,217	24.2	25.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Gel Image

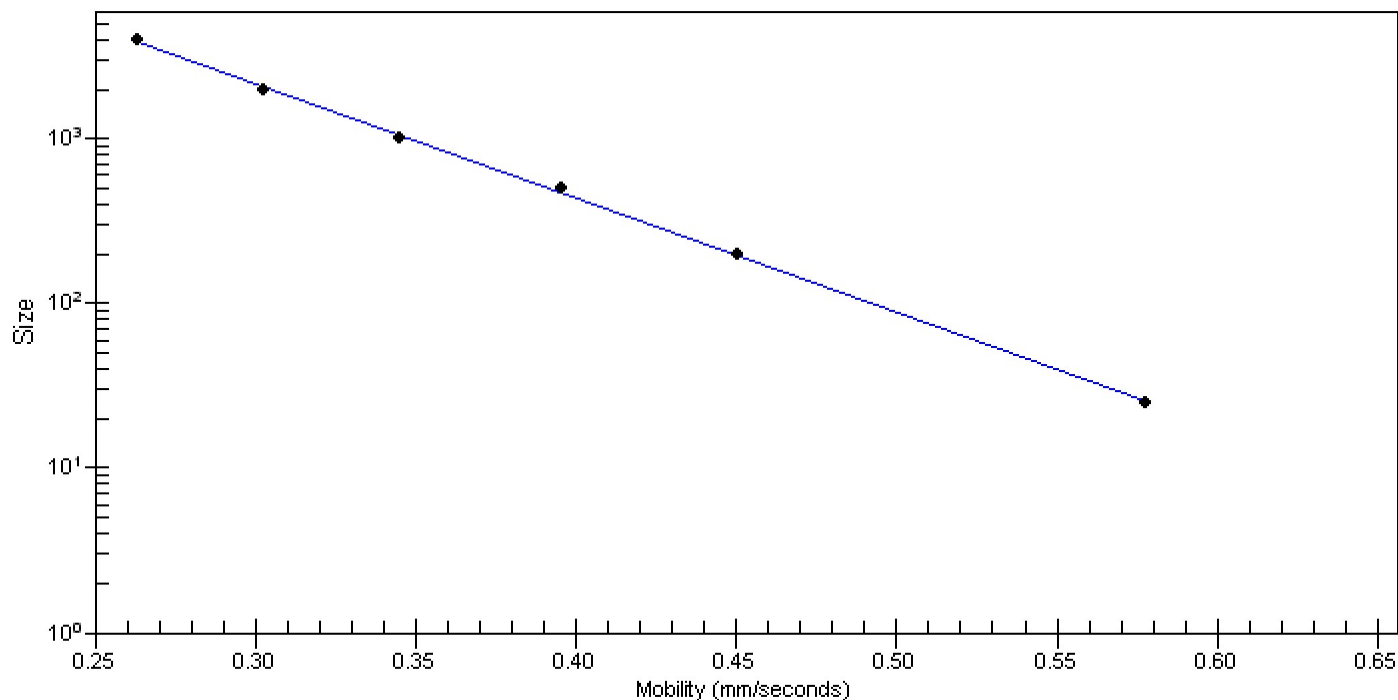


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
Modified: 3/20/2014 10:24:20 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad

Created: 3/20/2014 10:00:30 AM
 Modified: 3/20/2014 10:24:20 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		3/20/2014 10:24:17 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-03-20\2014-03-20_002.xad)		Instrument	Run		3/20/2014 10:00:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/20/2014 10:00:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/20/2014 10:00:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/20/2014 10:00:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/20/2014 10:00:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/20/2014 10:00:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/20/2014 10:00:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1