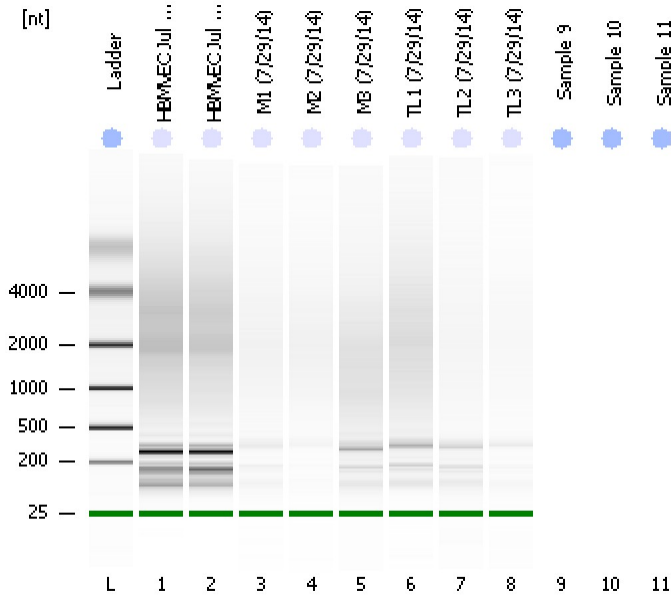


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

Electrophoresis File Run Summary



Instrument Information:

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

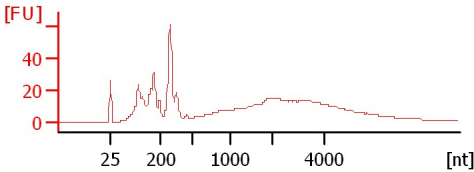
Assay Information:

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.

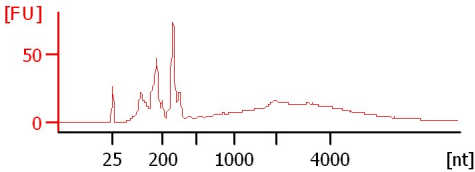
Chip Information:

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

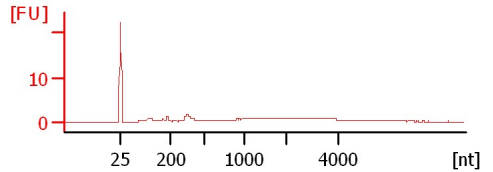
**HBMVEC Jul - M3**  
Ribo-depleted RNA  
RIN: 2.70



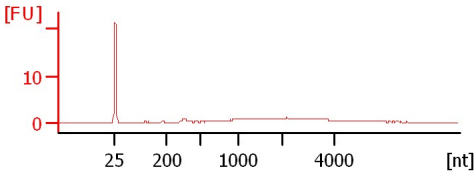
**HBMVEC Jul - TL2**  
Ribo-depleted RNA  
RIN: 2.30



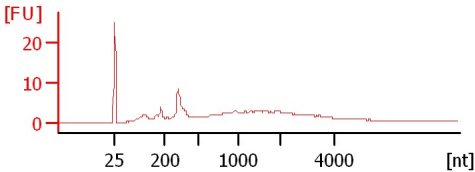
**M1 (7/29/14)**  
Ribo-depleted RNA  
RIN:1



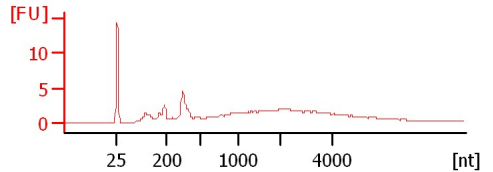
**M2 (7/29/14)**  
Ribo-depleted RNA  
RIN:1



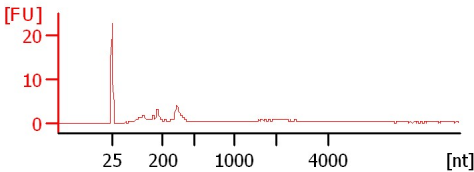
**M3 (7/29/14)**  
Ribo-depleted RNA  
RIN: 2.30



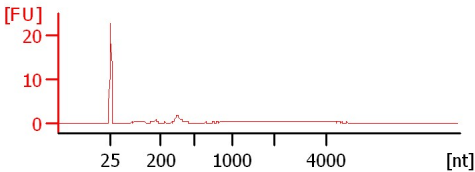
**TL1 (7/29/14)**  
Ribo-depleted RNA  
RIN: 2.30



**TL2 (7/29/14)**  
Ribo-depleted RNA  
RIN: 1.70



**TL3 (7/29/14)**  
Ribo-depleted RNA  
RIN:1



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
HBMVEC Jul - M3	Ribo-depleted RNA	✓	RIN: 2.70	
HBMVEC Jul - TL2	Ribo-depleted RNA	✓	RIN: 2.30	
M1 (7/29/14)	Ribo-depleted RNA	✓	RIN:1	
M2 (7/29/14)	Ribo-depleted RNA	✓	RIN:1	
M3 (7/29/14)	Ribo-depleted RNA	✓	RIN: 2.30	
TL1 (7/29/14)	Ribo-depleted RNA	✓	RIN: 2.30	
TL2 (7/29/14)	Ribo-depleted RNA	✓	RIN: 1.70	
TL3 (7/29/14)	Ribo-depleted RNA	✓	RIN:1	
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\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 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

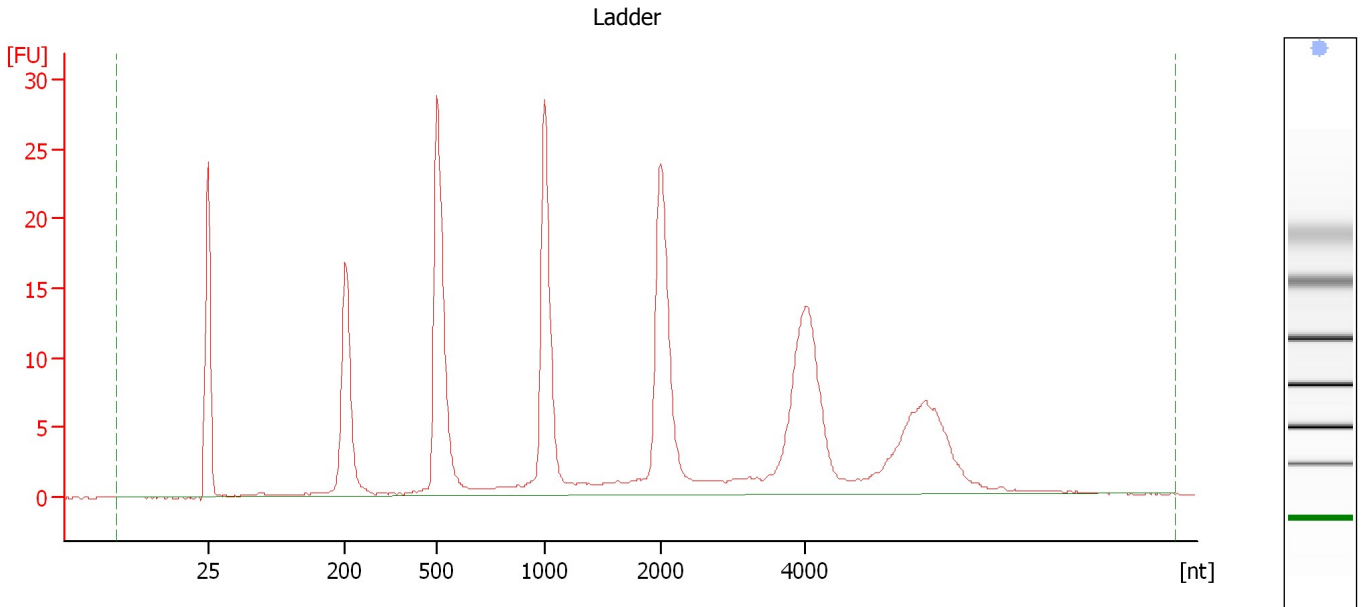
**Ladder**

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\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary**



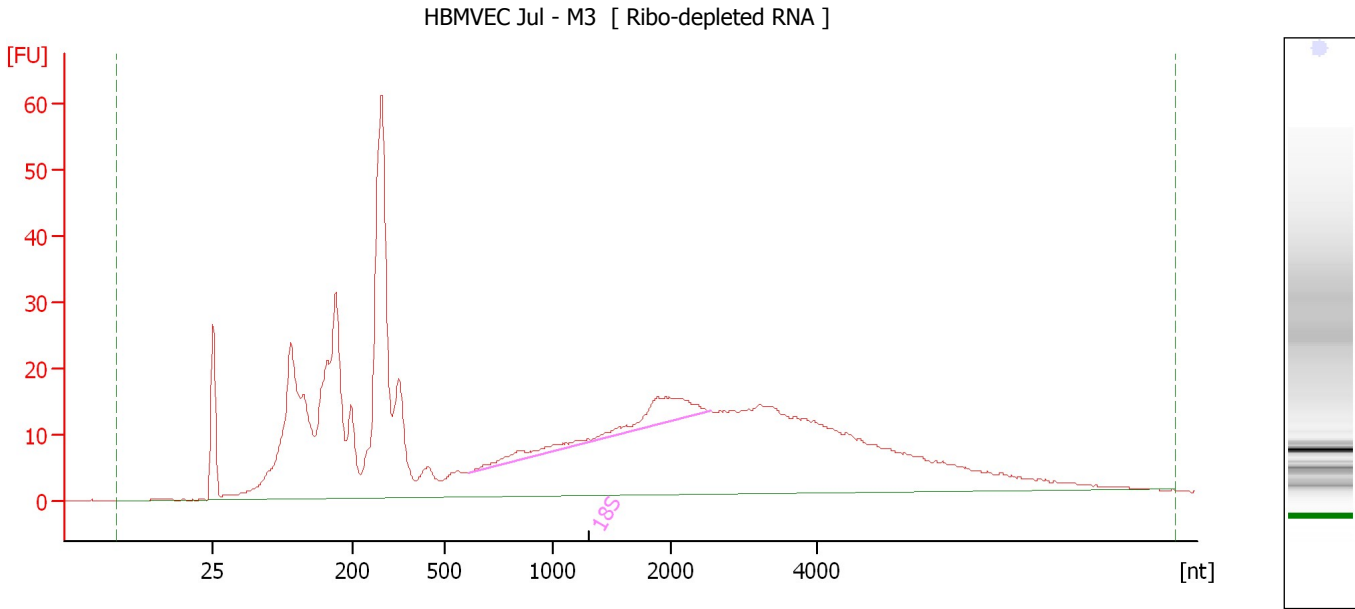
**Overall Results for Ladder**

RNA Area:	248.9	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
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\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HBMVEC Jul - M3**

RNA Area:	879.6	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	3,534 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

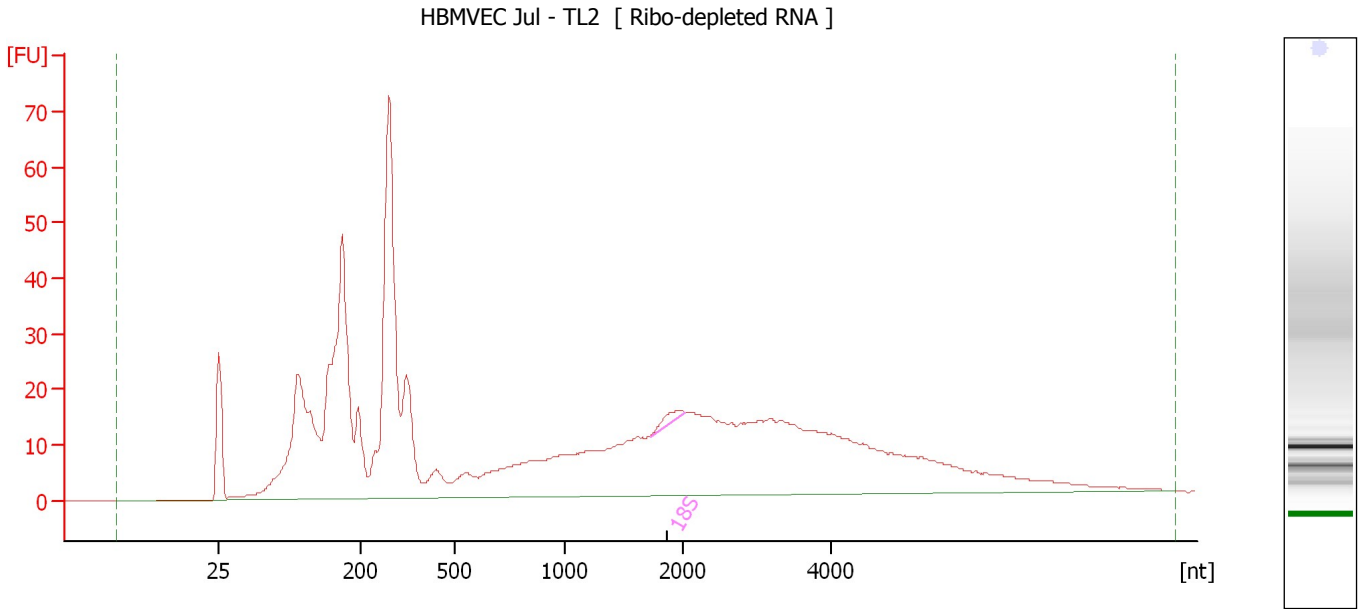
**Fragment table for sample 1 : HBMVEC Jul - M3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	607	2,550	34.9	4.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HBMVEC Jul - TL2**

RNA Area:	939.1	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	3,774 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

**Fragment table for sample 2 : HBMVEC Jul - TL2**

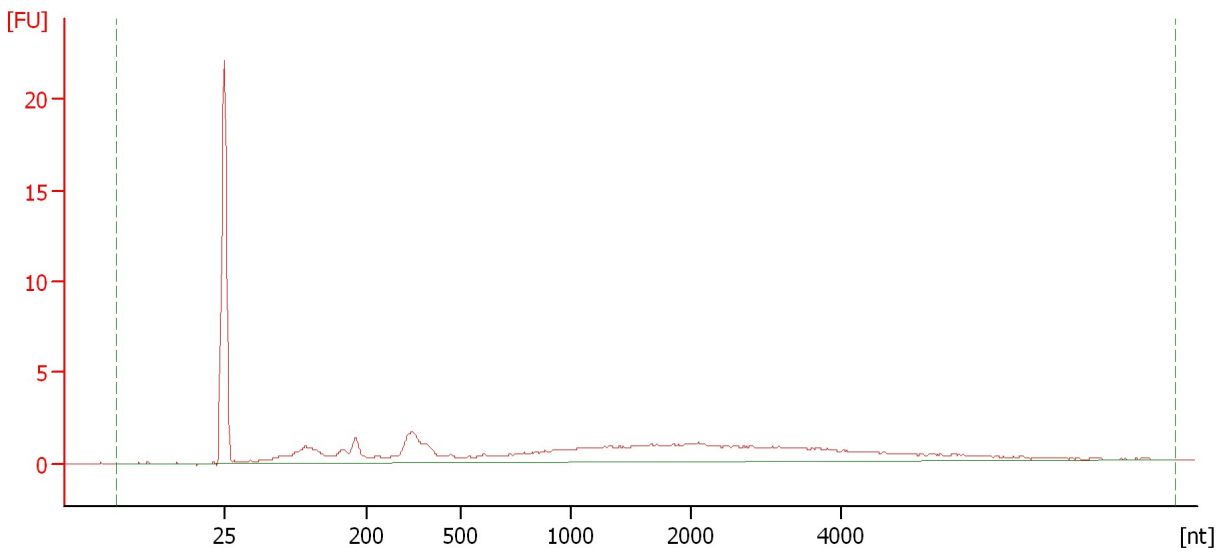
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,723	2,017	3.4	0.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary Continued ...**

M1 (7/29/14) [ Ribo-depleted RNA ]



**Overall Results for sample 3 : M1 (7/29/14)**

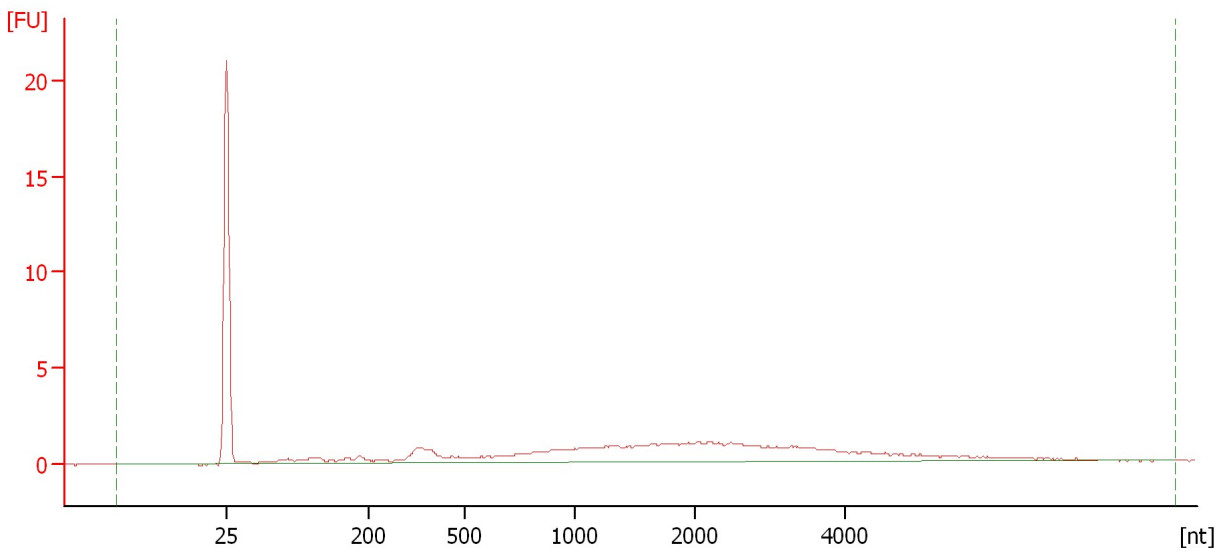
RNA Area:	53.8	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	216 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary Continued ...**

M2 (7/29/14) [ Ribo-depleted RNA ]



**Overall Results for sample 4 : M2 (7/29/14)**

RNA Area:	38.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	155 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

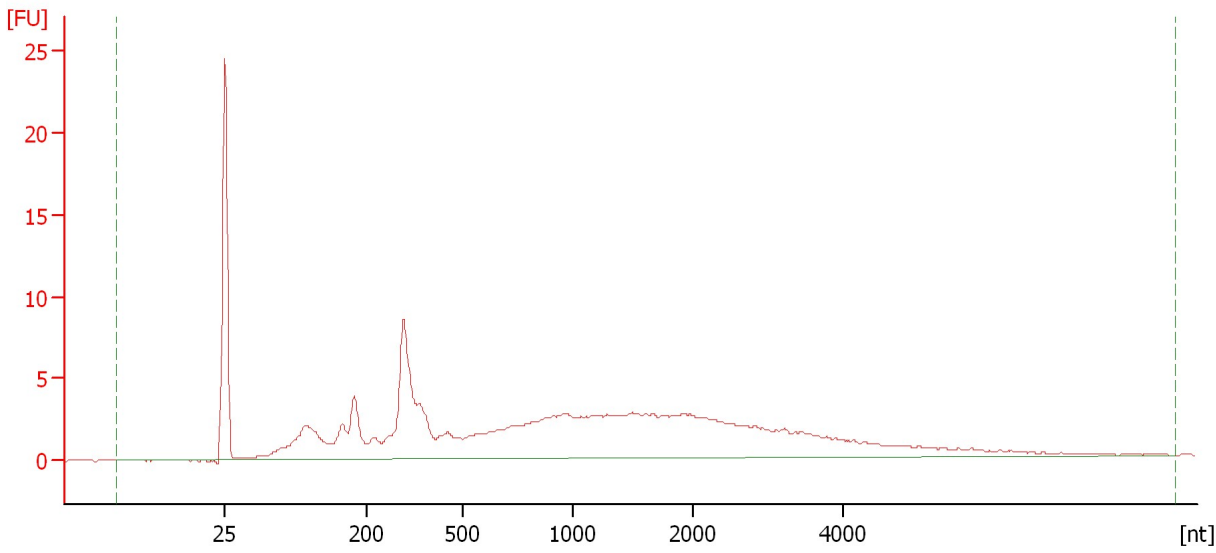


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary Continued ...**

M3 (7/29/14) [ Ribo-depleted RNA ]



**Overall Results for sample 5 : M3 (7/29/14)**

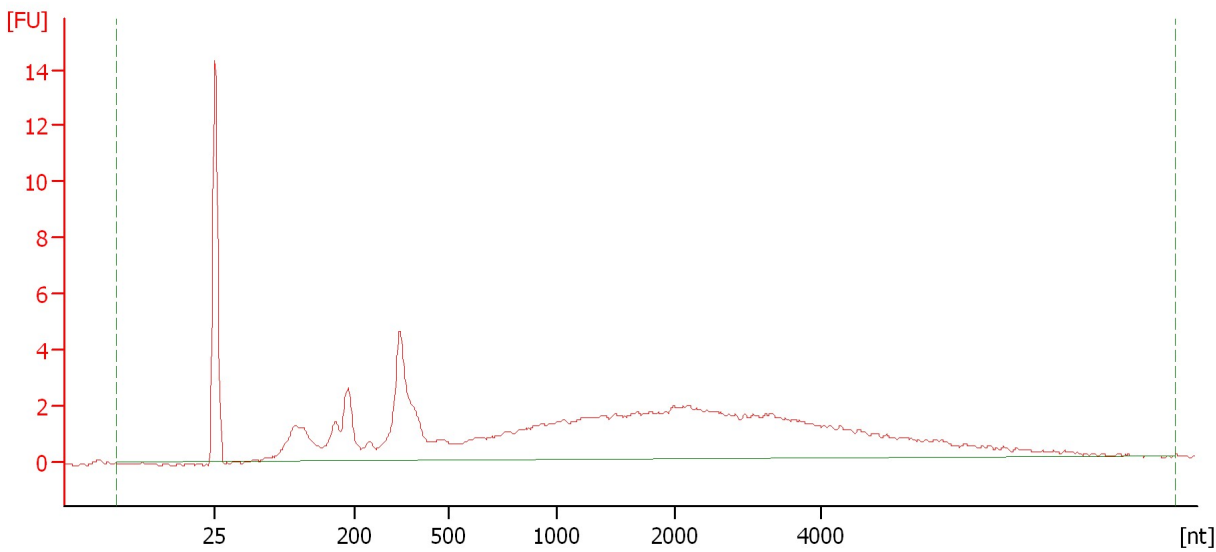
RNA Area:	149.0	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	599 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary Continued ...**

TL1 (7/29/14) [ Ribo-depleted RNA ]



**Overall Results for sample 6 : TL1 (7/29/14)**

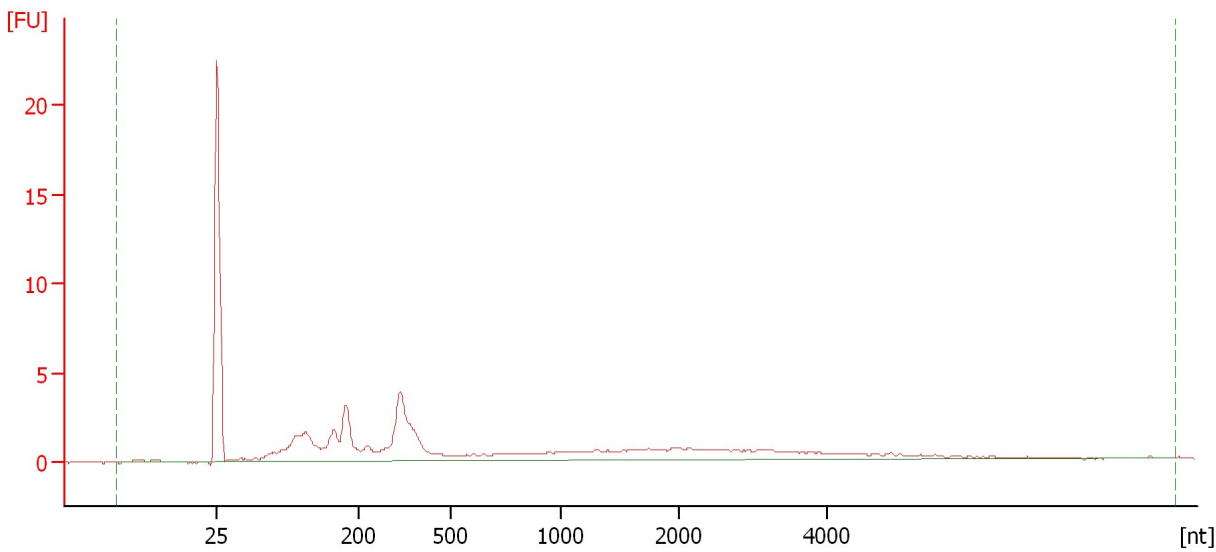
RNA Area:	97.1	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	390 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary Continued ...**

TL2 (7/29/14) [ Ribo-depleted RNA ]



**Overall Results for sample 7 : TL2 (7/29/14)**

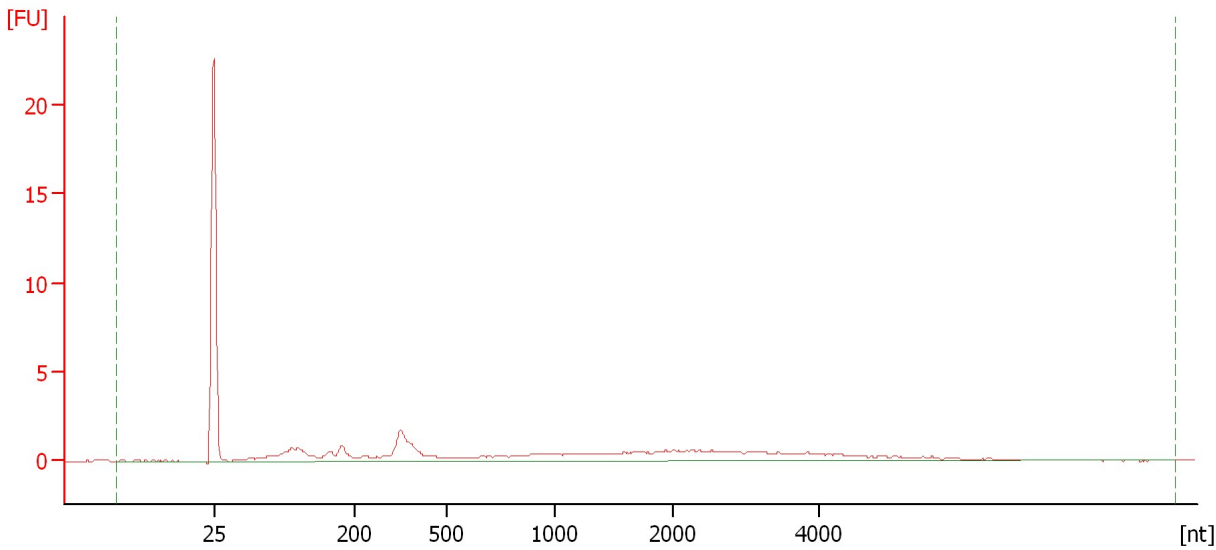
RNA Area:	55.8	RNA Integrity Number (RIN):	1.7 (B.02.08)
RNA Concentration:	224 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.70

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Electropherogram Summary Continued ...**

TL3 (7/29/14) [ Ribo-depleted RNA ]



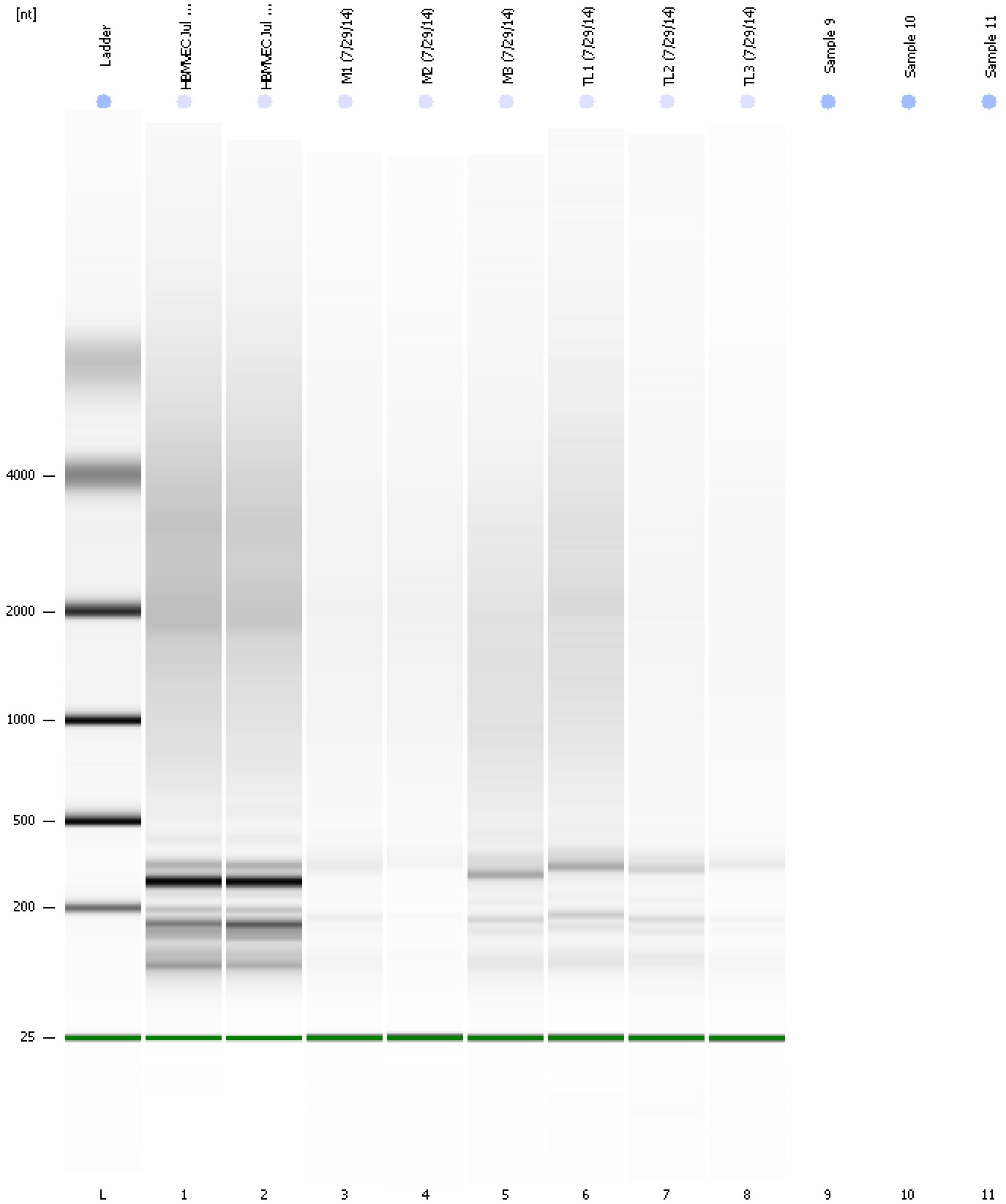
**Overall Results for sample 8 : TL3 (7/29/14)**

RNA Area:	30.1	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	121 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-02\2014-09-02\_001.xad

Created: 9/2/2014 3:19:34 PM  
Modified: 9/2/2014 3:38:11 PM

**Invalid Samples**

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\2014-09-02\2014-09-02\_001.xad  
 Created: 9/2/2014 3:19:34 PM  
 Modified: 9/2/2014 3:38:11 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		9/2/2014 3:38:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-02\2014-09-02_001.xad)		Instrument	Run		9/2/2014 3:19:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/2/2014 3:19:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/2/2014 3:19:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/2/2014 3:19:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/2/2014 3:19:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/2/2014 3:19:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/2/2014 3:19:39 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1