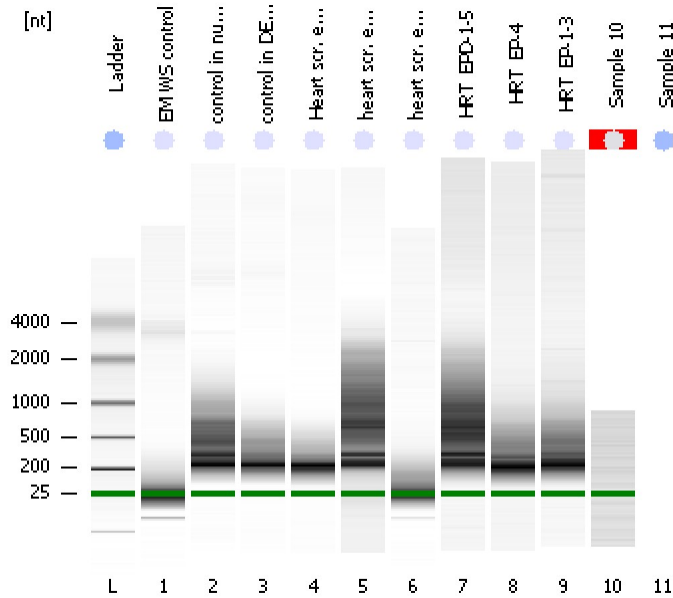


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electrophoresis File Run Summary



Instrument Information:

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

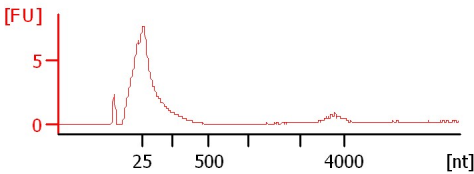
Assay Information:

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.

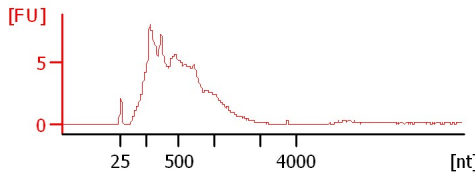
Chip Information:

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

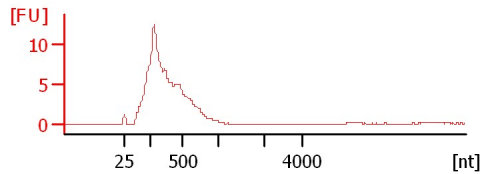
EM WS control
RIN: 3.20



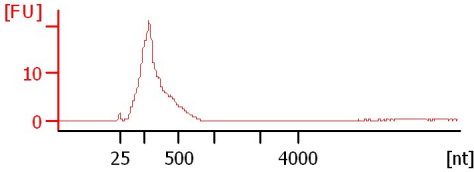
control in nuclease-free H2O
RIN: 2.10



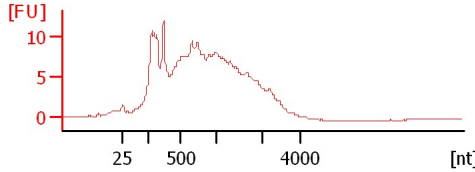
control in DEPC H2O
RIN: 2.40



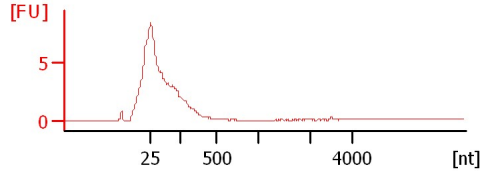
Heart scr. embed 3/12
RIN: 2.50



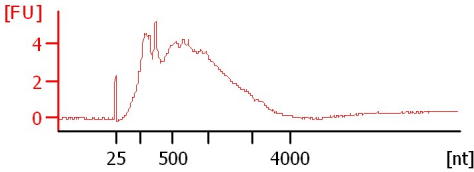
heart scr. embed 3/15
RIN: 1.60



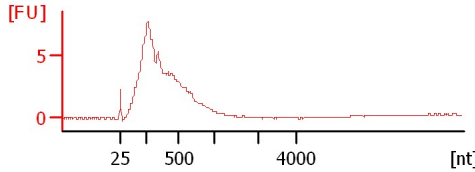
heart scr. embed 3/22
RIN: 2.70



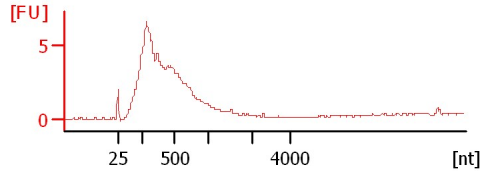
HRT EPD-1-5
RIN: 1.90



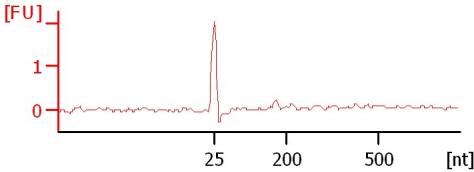
HRT EP-4
RIN: 2.40



HRT EP-1-3
RIN: 2.20



Sample 10
RIN N/A



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
EM WS control		✓	RIN: 3.20	
control in nuclease-free H2O		✓	RIN: 2.10	
control in DEPC H2O		✓	RIN: 2.40	
Heart scr. embed 3/12		✓	RIN: 2.50	
heart scr. embed 3/15		✓	RIN: 1.60	
heart scr. embed 3/22		✓	RIN: 2.70	
HRT_EPD-1-5		✓	RIN: 1.90	
HRT_EP-4		✓	RIN: 2.40	
HRT_EP-1-3		✓	RIN: 2.20	
Sample 10		✗	RIN N/A	
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\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 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

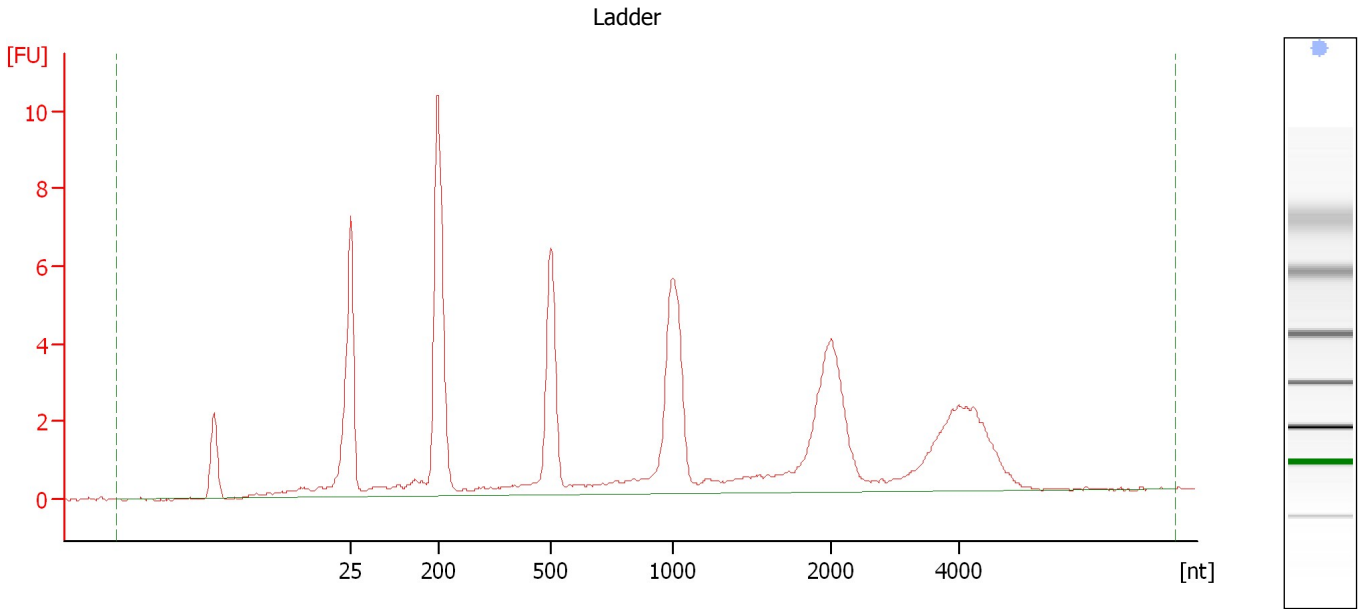
Ladder

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\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary



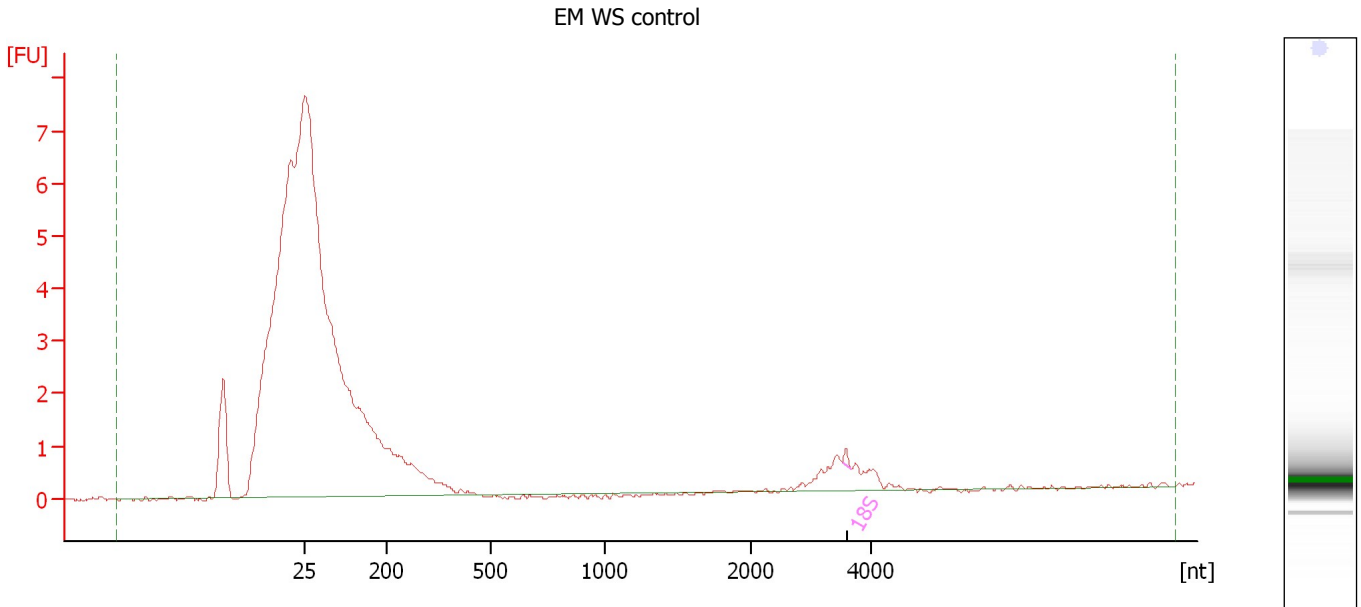
Overall Results for Ladder

RNA Area:	74.7	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\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EM WS control

RNA Area:	17.7	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	236 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.20

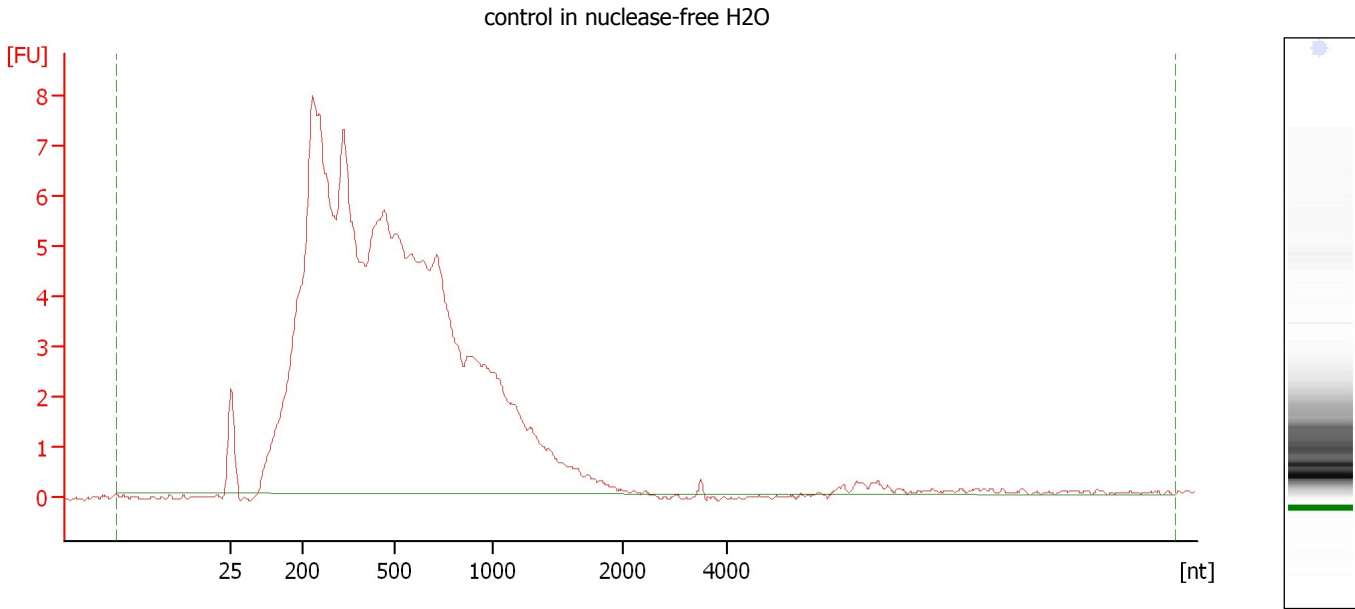
Fragment table for sample 1 : EM WS control

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,536	3,680	0.1	0.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...



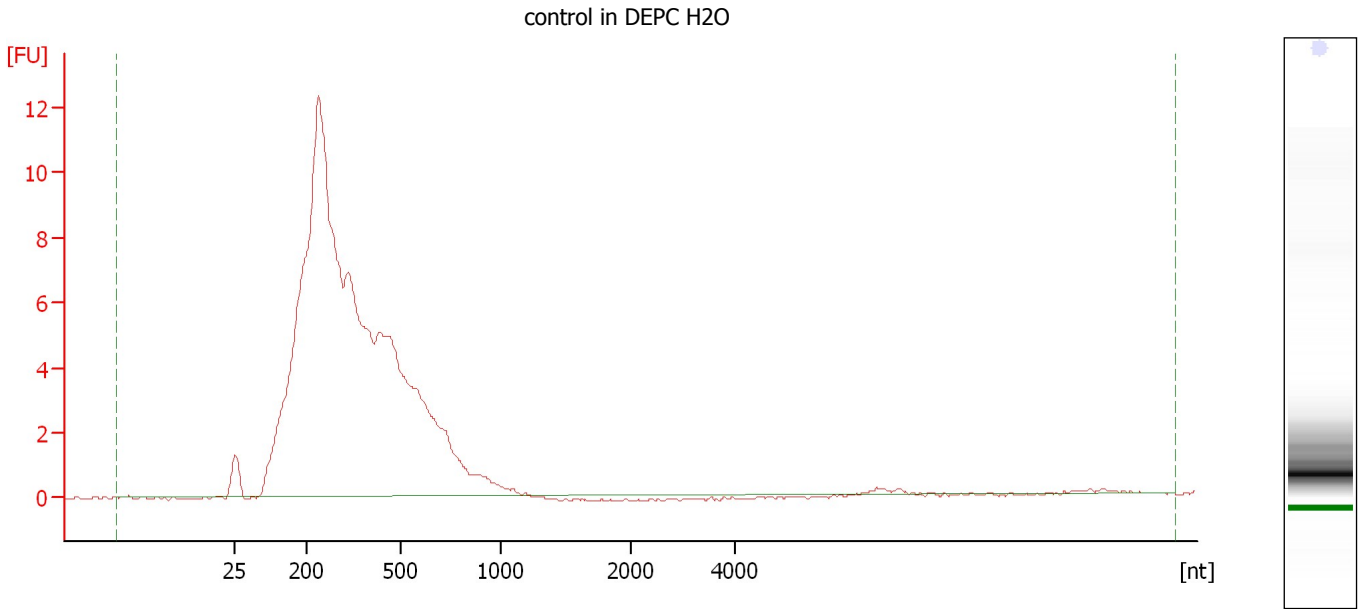
Overall Results for sample 2 : control in nuclease-free H2O

RNA Area:	163.8	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	2,192 pg/ μ l	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\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : control in DEPC H2O

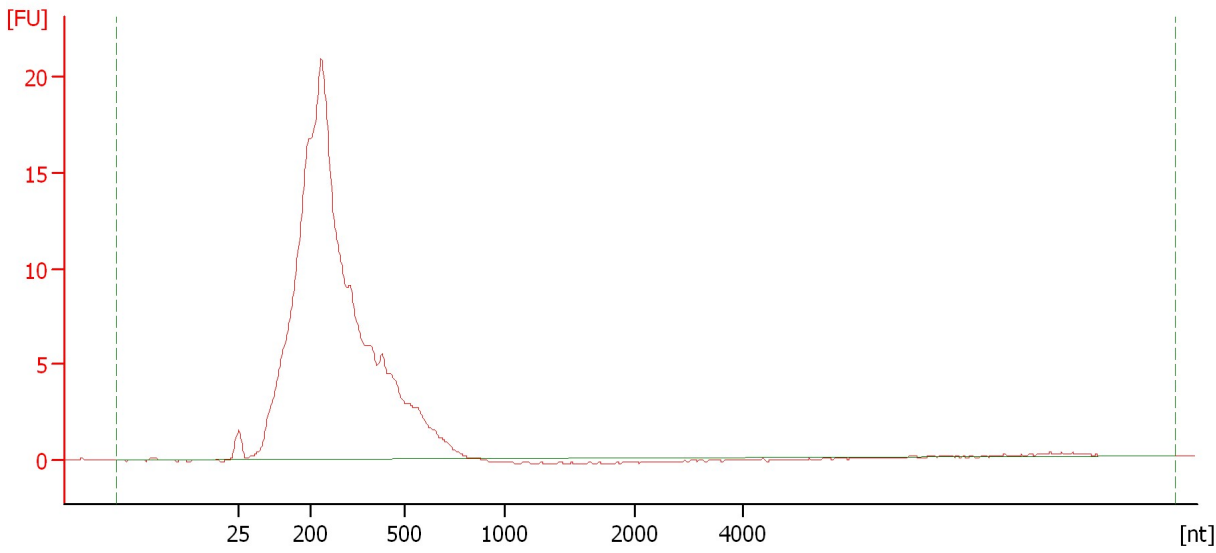
RNA Area:	149.6	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	2,003 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...

Heart scr. embed 3/12



Overall Results for sample 4 : Heart scr. embed 3/12

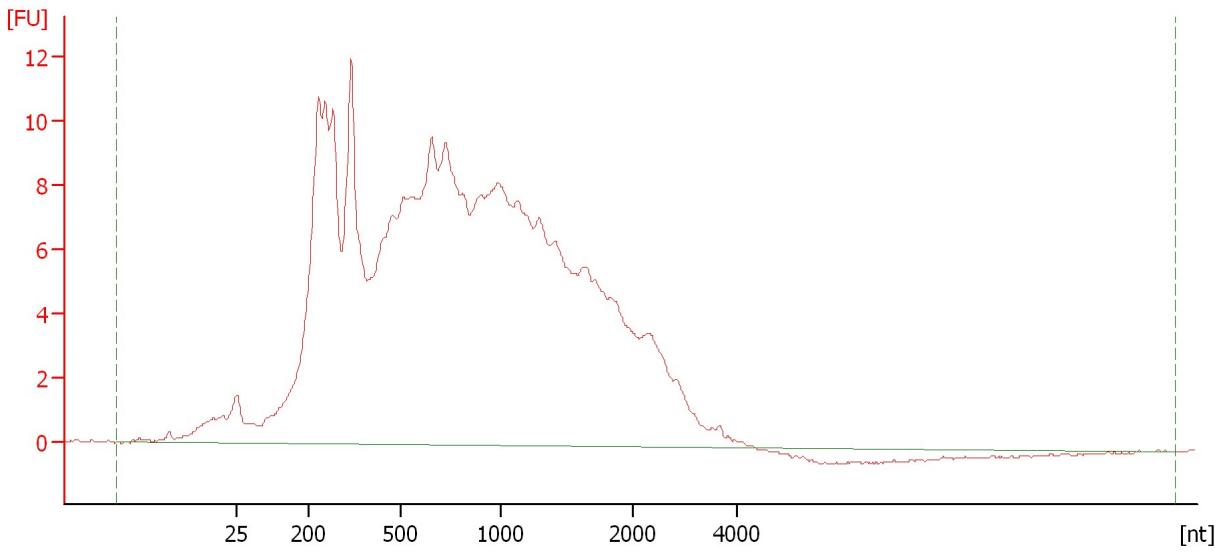
RNA Area:	212.3	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	2,842 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...

heart scr. embed 3/15



Overall Results for sample 5 : heart scr. embed 3/15

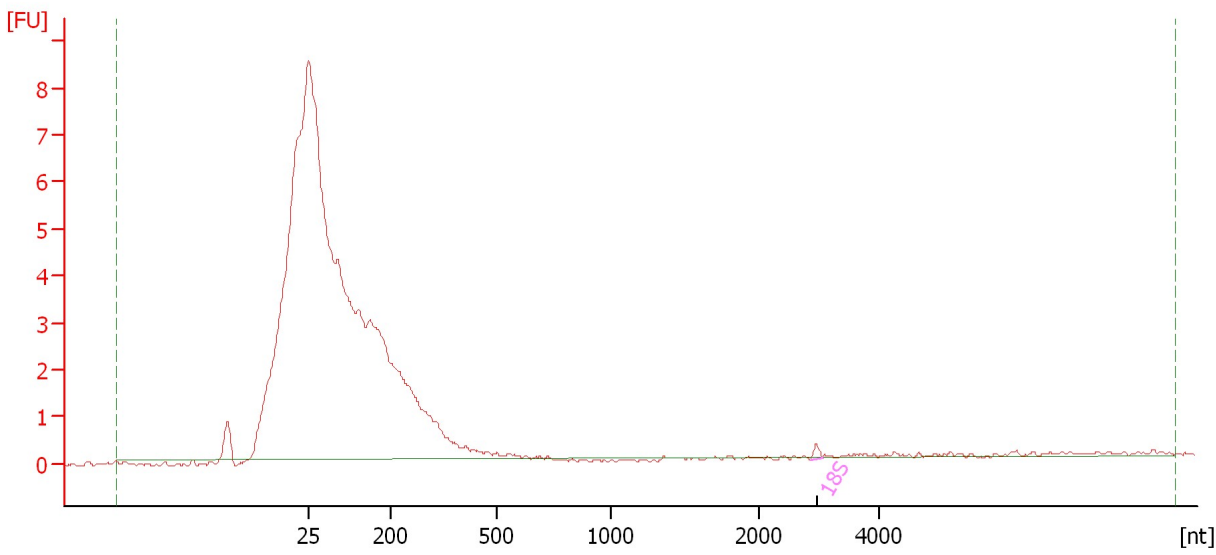
RNA Area:	348.7	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	4,668 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.60

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...

heart scr. embed 3/22



Overall Results for sample 6 : heart scr. embed 3/22

RNA Area:	29.9	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	400 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

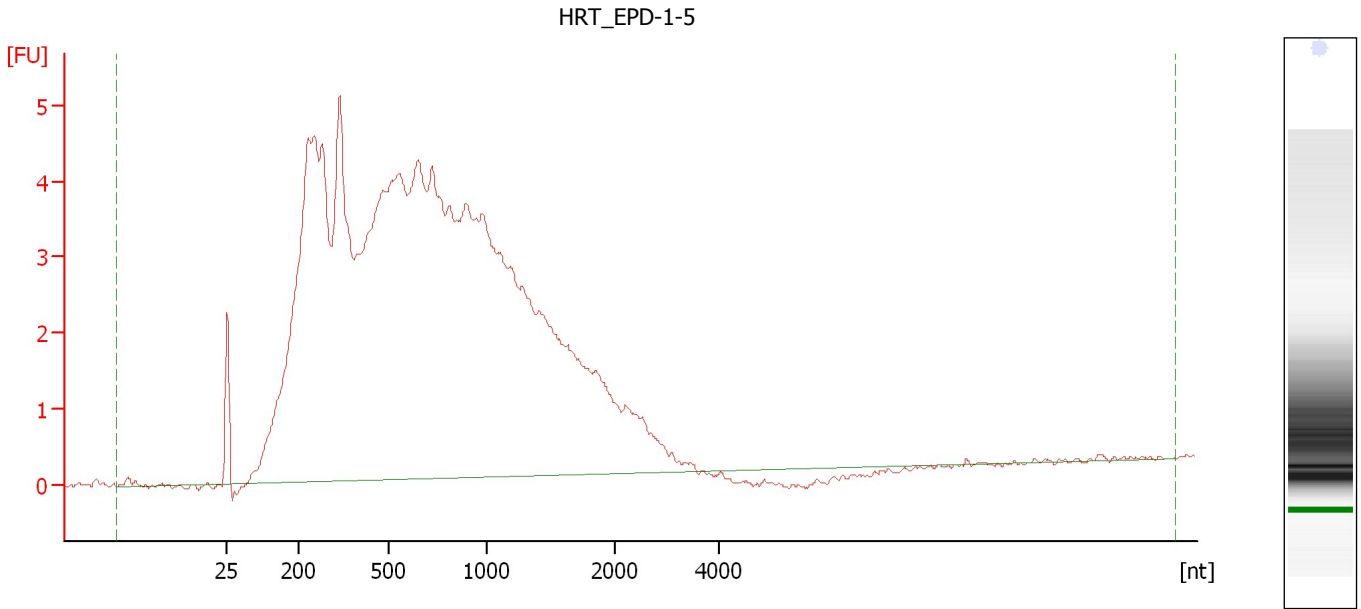
Fragment table for sample 6 : heart scr. embed 3/22

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,868	3,064	0.2	0.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...



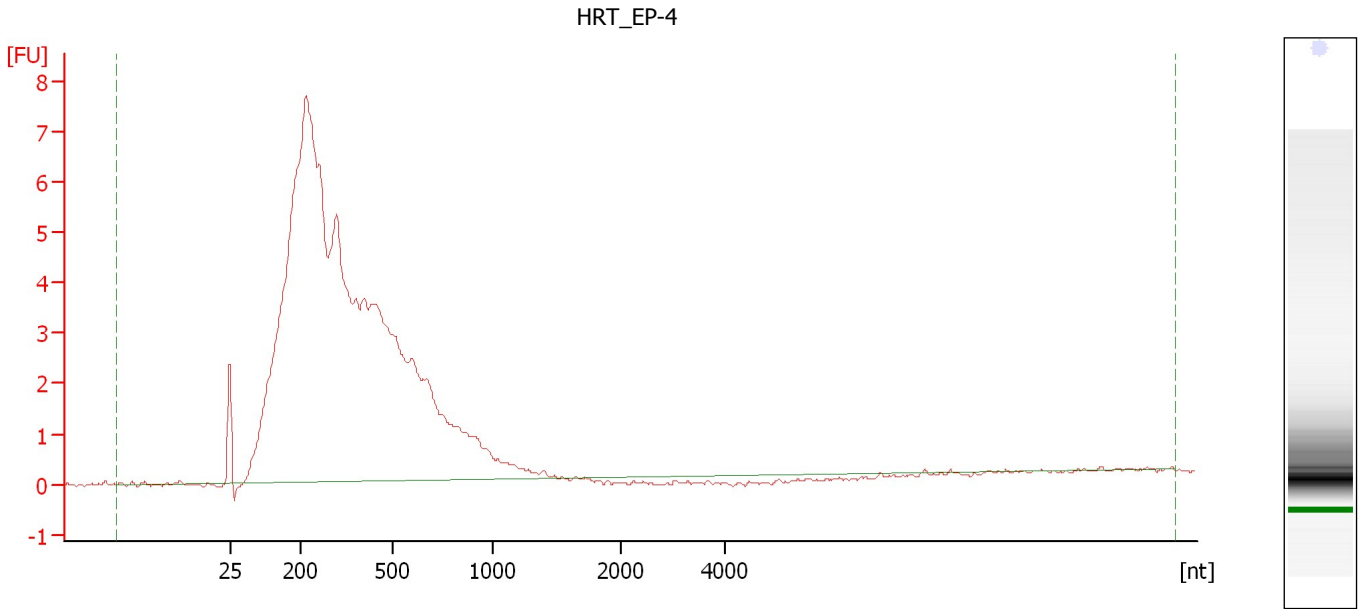
Overall Results for sample 7 : HRT_EPD-1-5

RNA Area:	146.1	RNA Integrity Number (RIN):	1.9 (B.02.08)
RNA Concentration:	1,956 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.90

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...



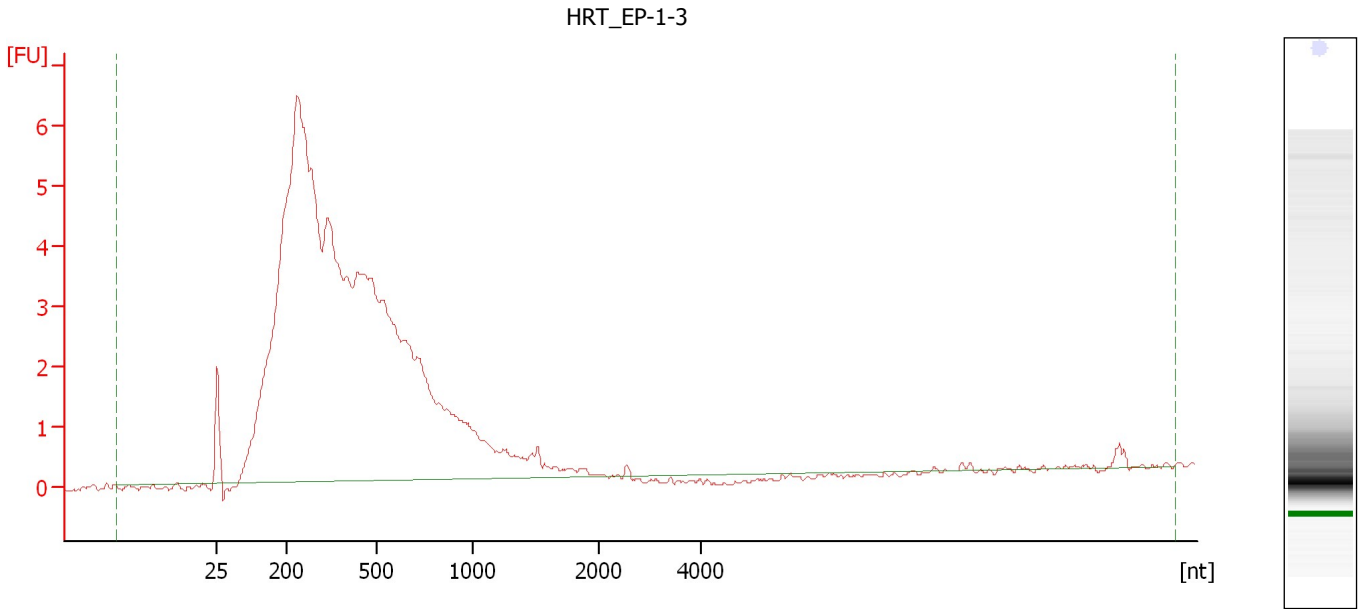
Overall Results for sample 8 : HRT_EP-4

RNA Area:	115.3	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	1,544 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...



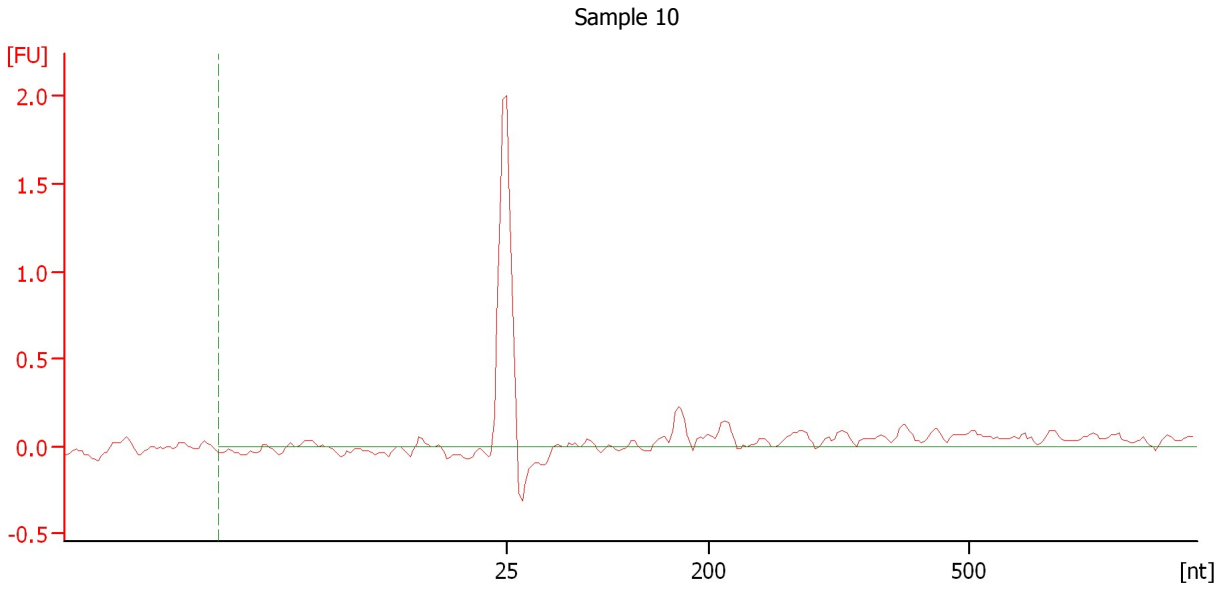
Overall Results for sample 9 : HRT_EP-1-3

RNA Area:	105.6	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	1,413 pg/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\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : Sample 10

End Analysis Time Range [s] : 35.15

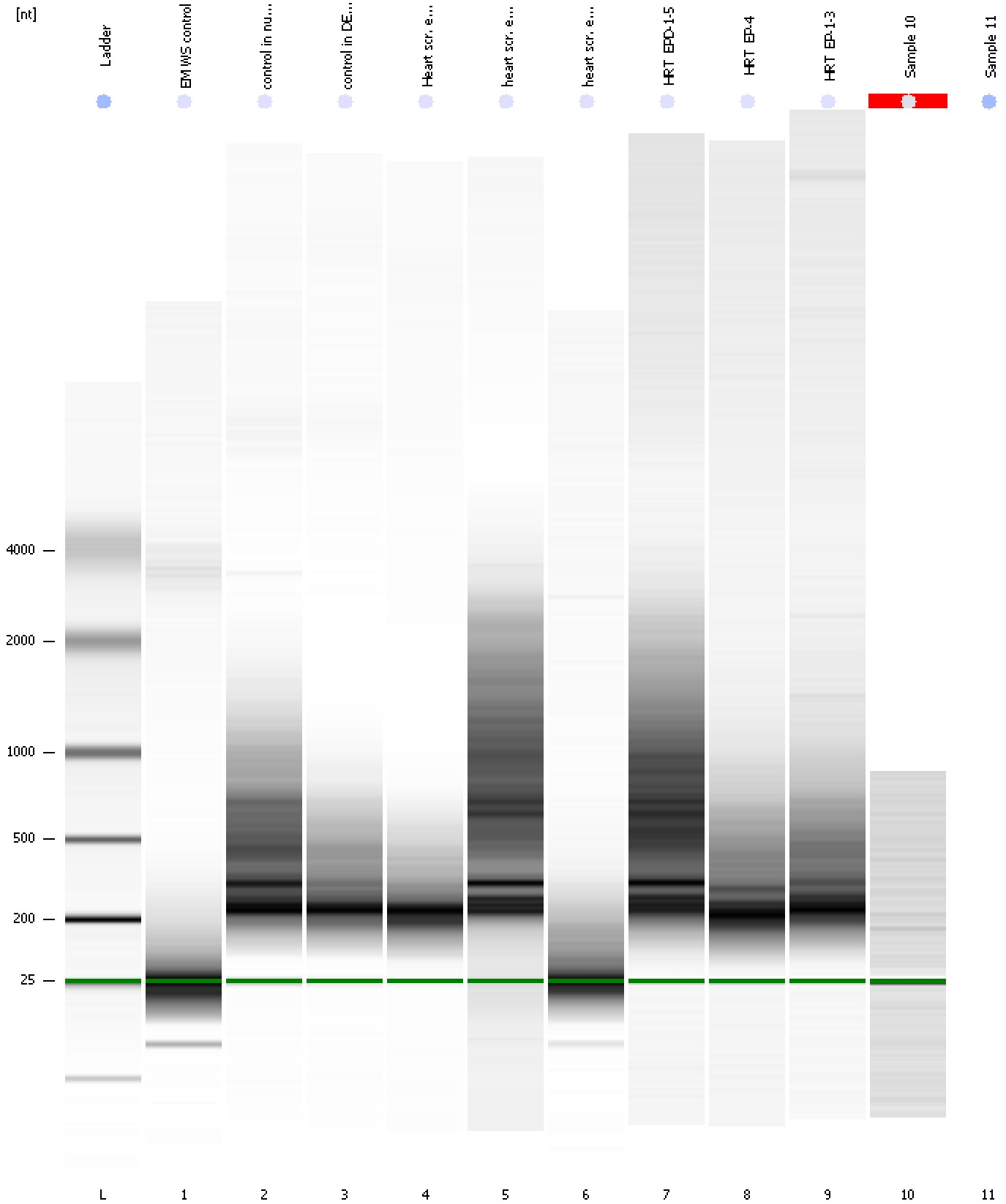
Overall Results for sample 10 : Sample 10

RNA Area:	1.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	22 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\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
Modified: 4/11/2012 3:07:12 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad

Created: 4/11/2012 2:46:16 PM
 Modified: 4/11/2012 3:07:12 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run aborted on port 1		Instrument	Run		4/11/2012 3:07:10 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-04-11\2012-04-11_005.xad)		Instrument	Run		4/11/2012 2:46:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/11/2012 2:46:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/11/2012 2:46:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/11/2012 2:46:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/11/2012 2:46:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/11/2012 2:46:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/11/2012 2:46:22 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1