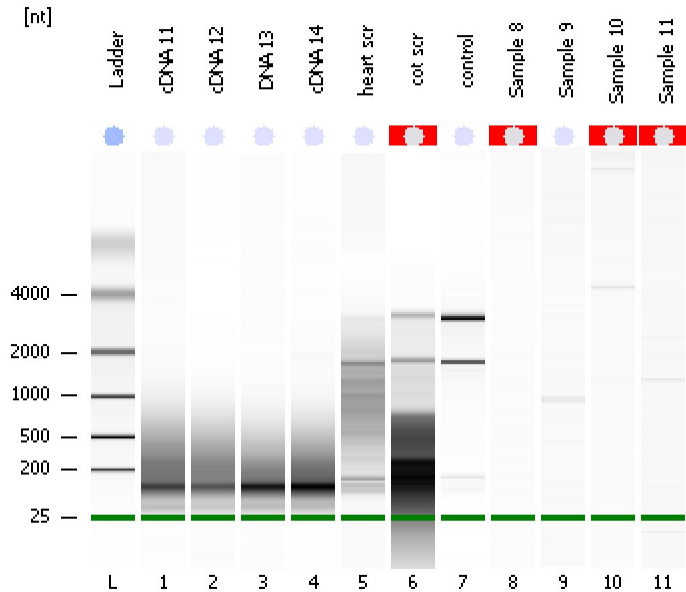


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electrophoresis File Run Summary



Instrument Information:

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

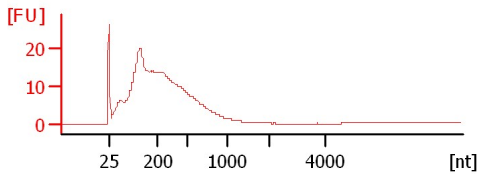
Assay Information:

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)
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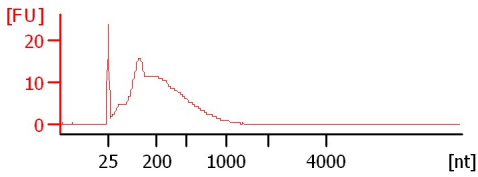
Chip Information:

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

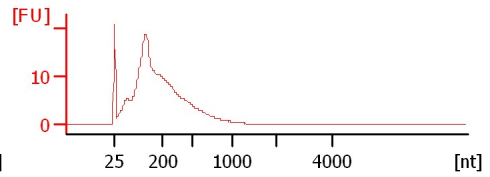
cDNA 11
RIN: 2.30



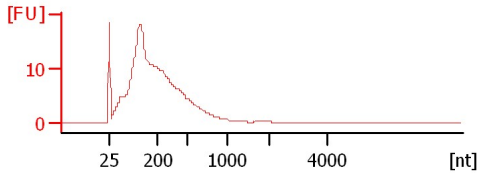
cDNA 12
RIN: 2.30



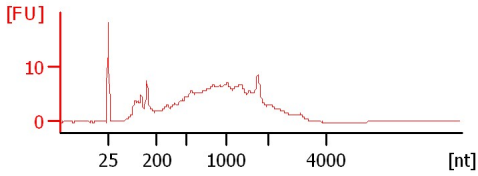
DNA 13
RIN: 2.40



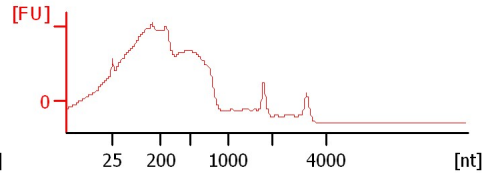
cDNA 14
RIN: 2.30



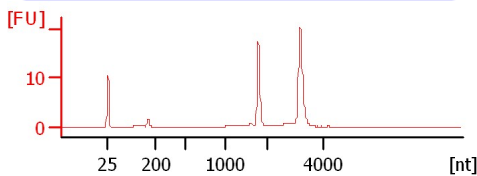
heart scr
RIN: 3.40



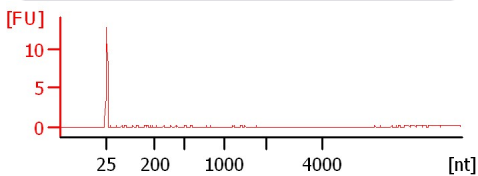
cot scr
RIN N/A



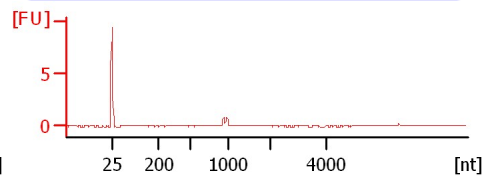
control
RIN: 9.50



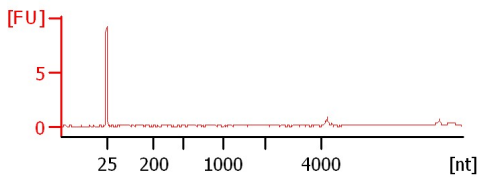
Sample 8
RIN N/A



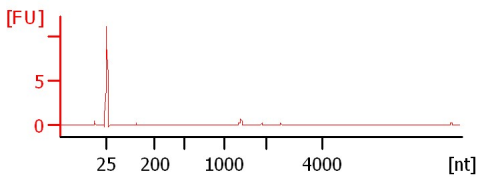
Sample 9
RIN: 1.10



Sample 10
RIN N/A



Sample 11
RIN N/A



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
cDNA 11		✓	RIN: 2.30	
cDNA 12		✓	RIN: 2.30	
DNA 13		✓	RIN: 2.40	
cDNA 14		✓	RIN: 2.30	
heart scr		✓	RIN: 3.40	
cot scr		✓	RIN N/A	
control		✓	RIN: 9.50	
Sample 8		✓	RIN N/A	
Sample 9		✓	RIN: 1.10	
Sample 10		✓	RIN N/A	
Sample 11		✓	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\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 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

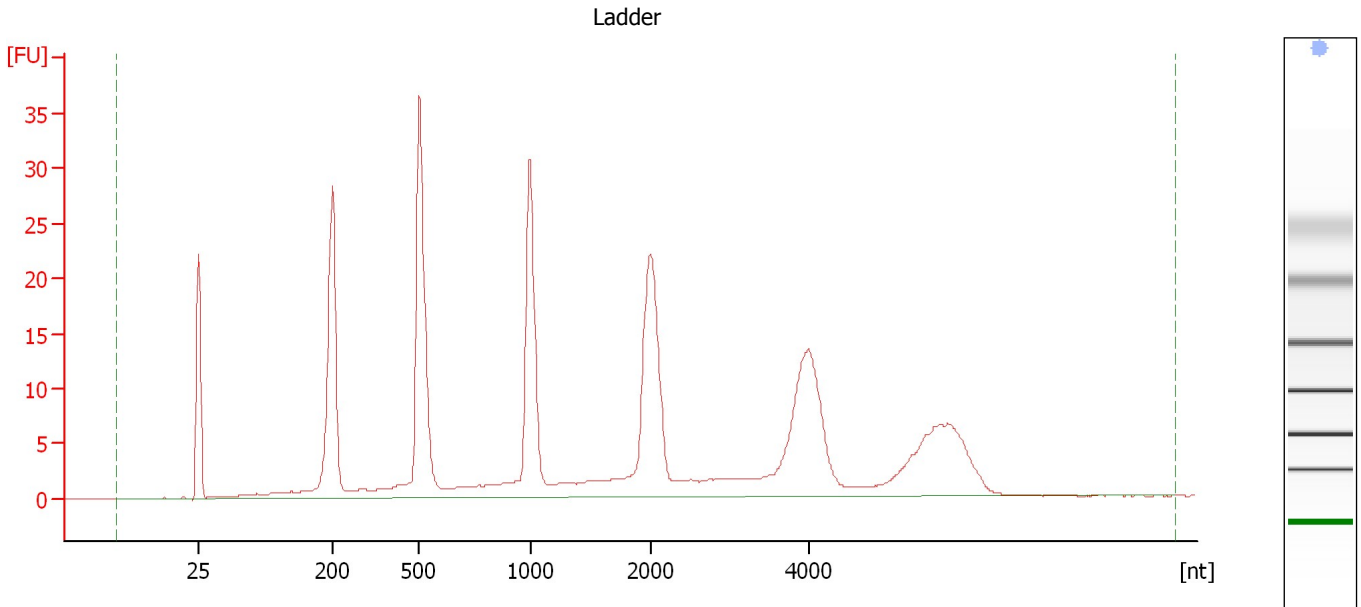
Ladder

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\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary



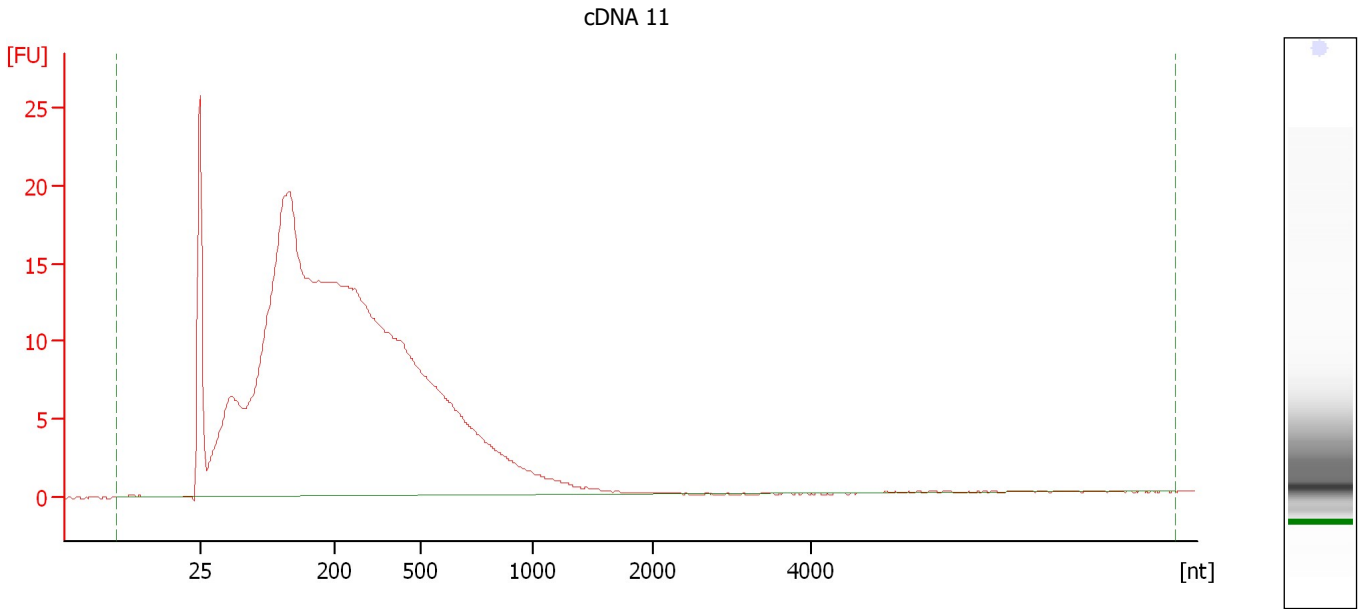
Overall Results for Ladder

RNA Area:	305.7	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\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...



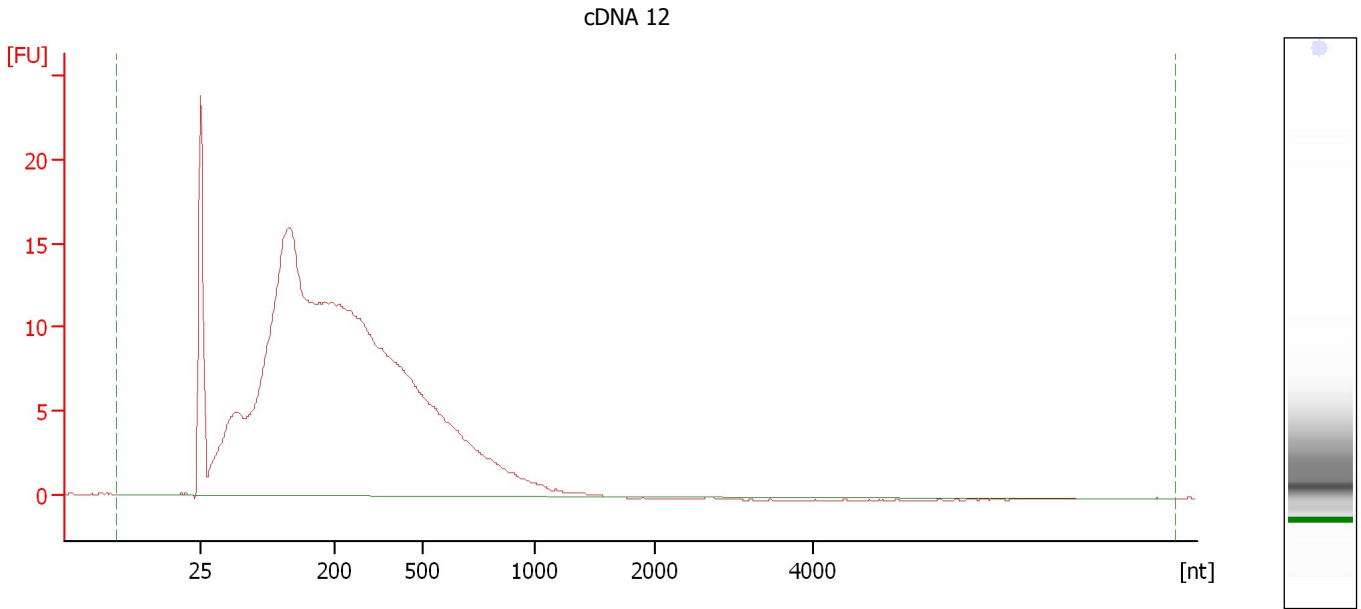
Overall Results for sample 1 : cDNA 11

RNA Area:	446.7	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,461 pg/μl	Result Flagging Color:	
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\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...



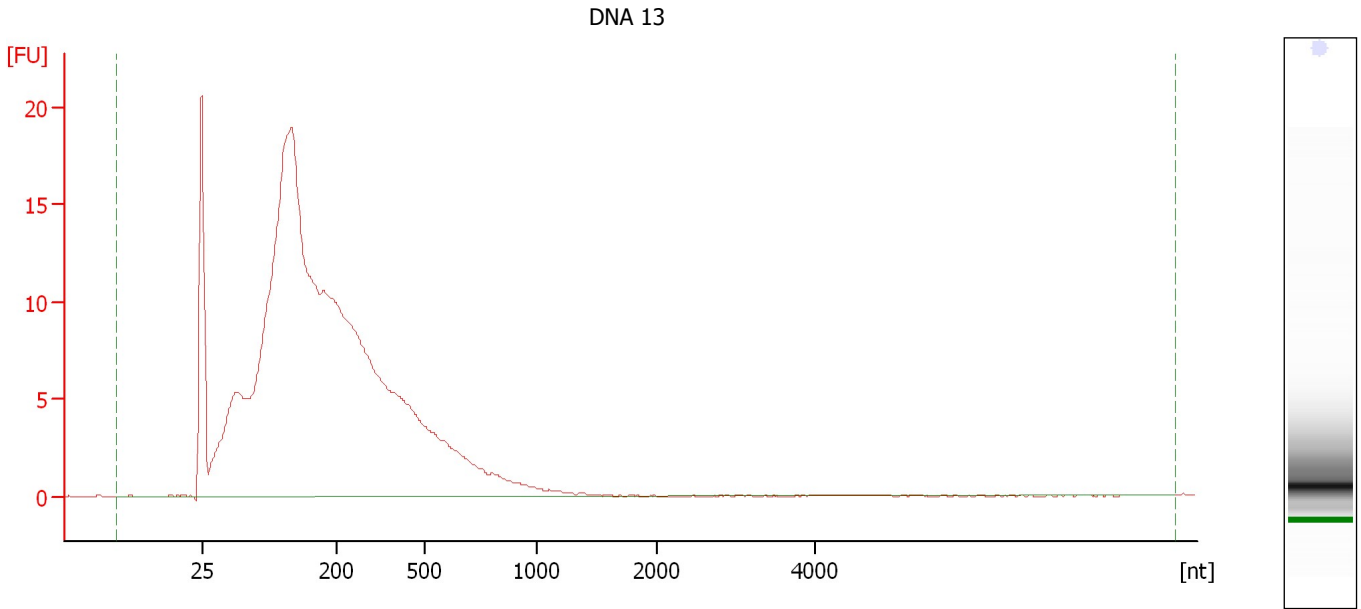
Overall Results for sample 2 : cDNA 12

RNA Area:	352.5	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,153 pg/ μ l	Result Flagging Color:	
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\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...



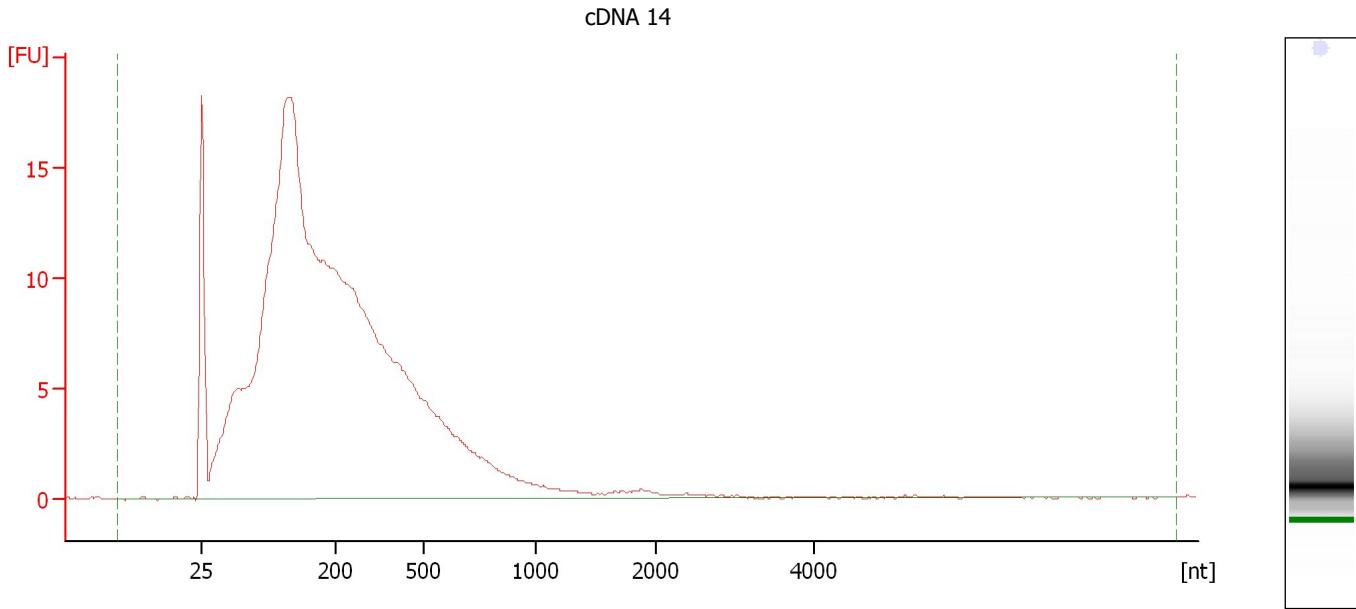
Overall Results for sample 3 : DNA 13

RNA Area:	314.2	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	1,028 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\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...



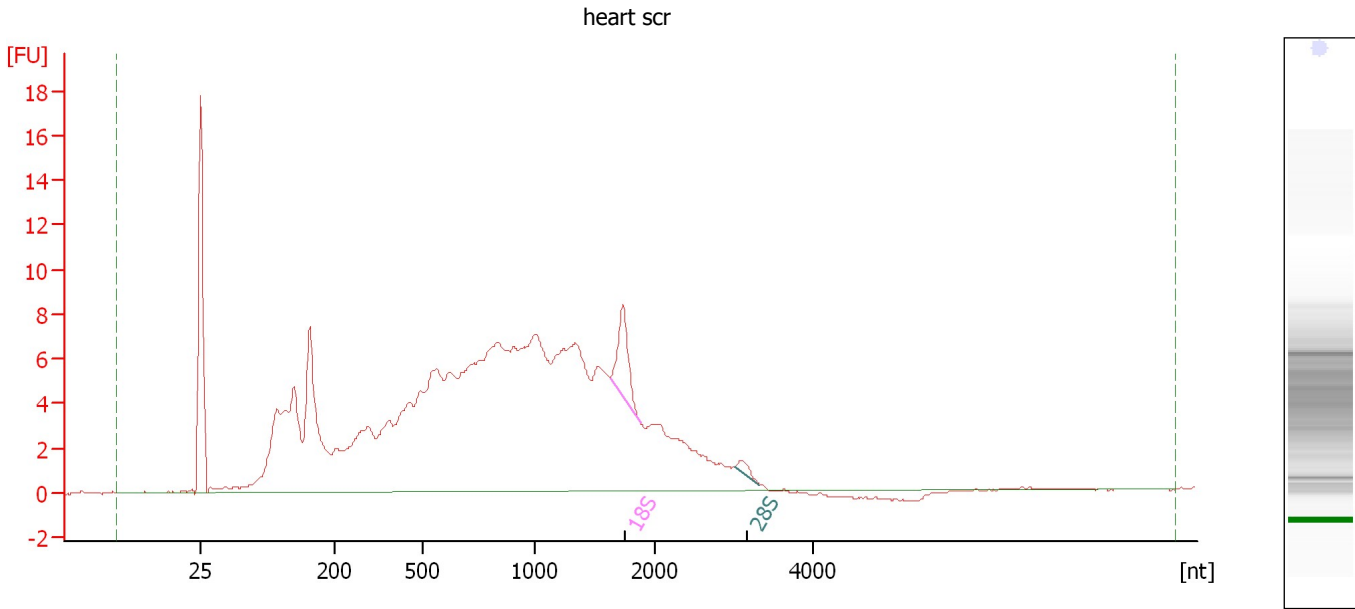
Overall Results for sample 4 : cDNA 14

RNA Area:	335.1	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	1,096 pg/μl	Result Flagging Color:	
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\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : heart scr

RNA Area: 256.6 RNA Integrity Number (RIN): 3.4 (B.02.08)
RNA Concentration: 839 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 3.40

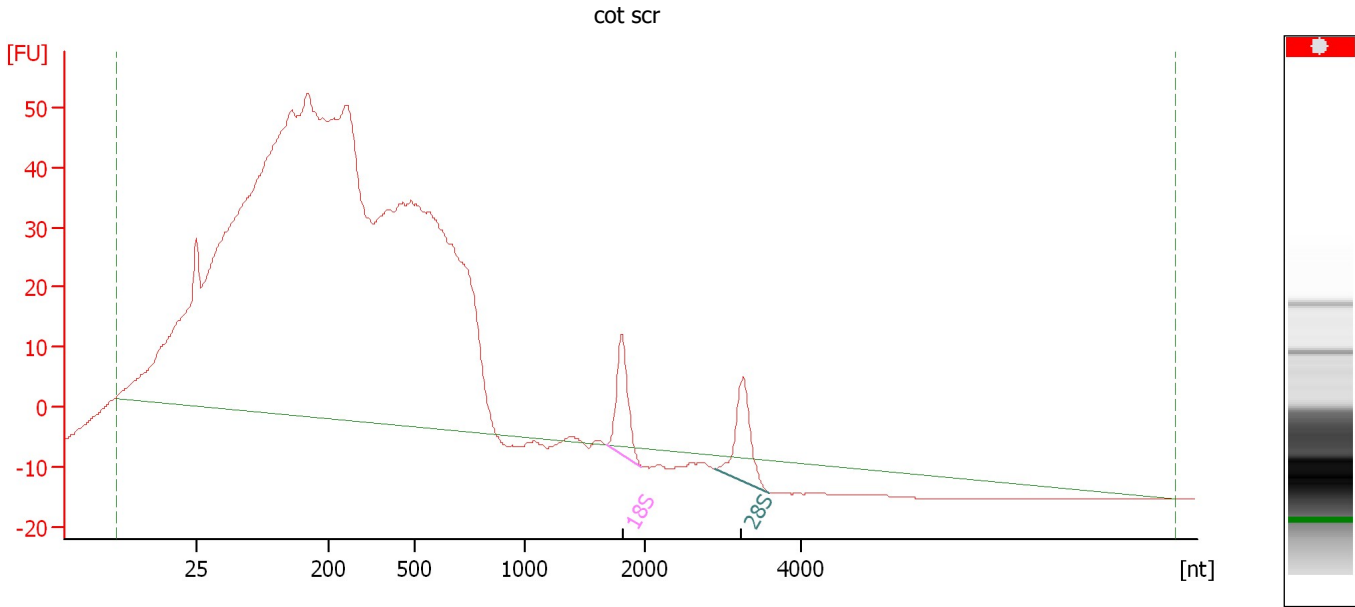
Fragment table for sample 5 : heart scr

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	1,886	5.2	2.0
28S	3,025	3,321	0.6	0.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : cot scr

RNA Area:	1,725.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5,644 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN N/A

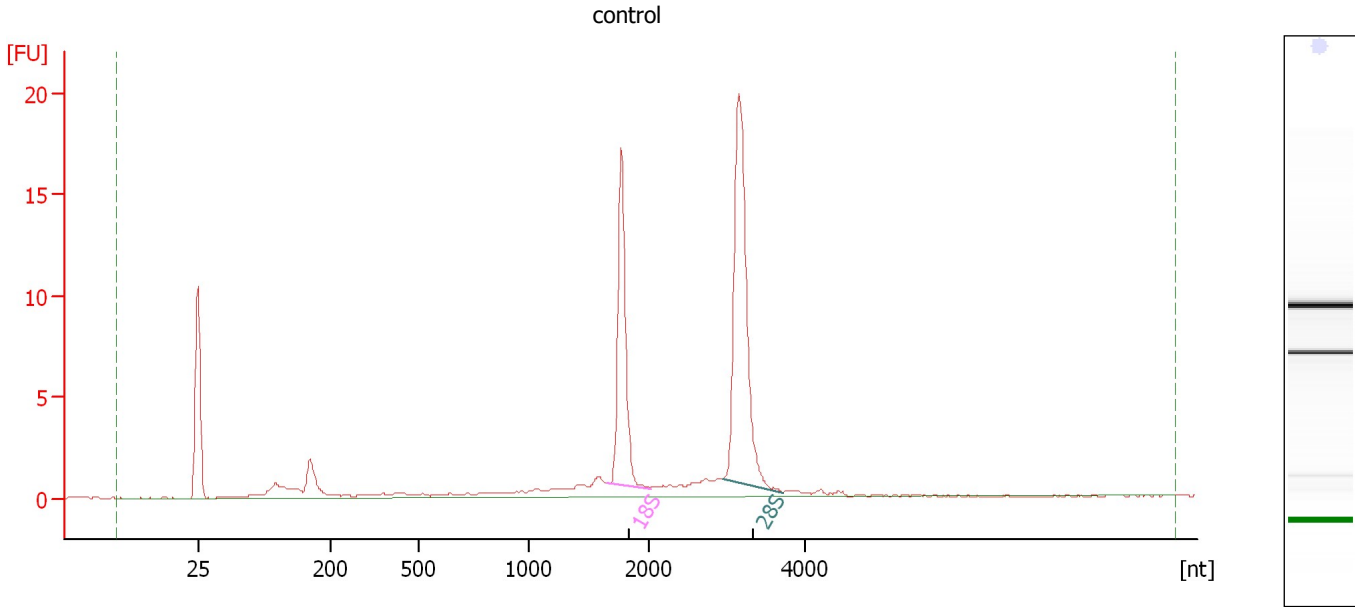
Fragment table for sample 6 : cot scr

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,682	1,979	28.5	1.6
28S	2,893	3,587	28.0	1.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : control

RNA Area:	67.9	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	222 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.50

Fragment table for sample 7 : control

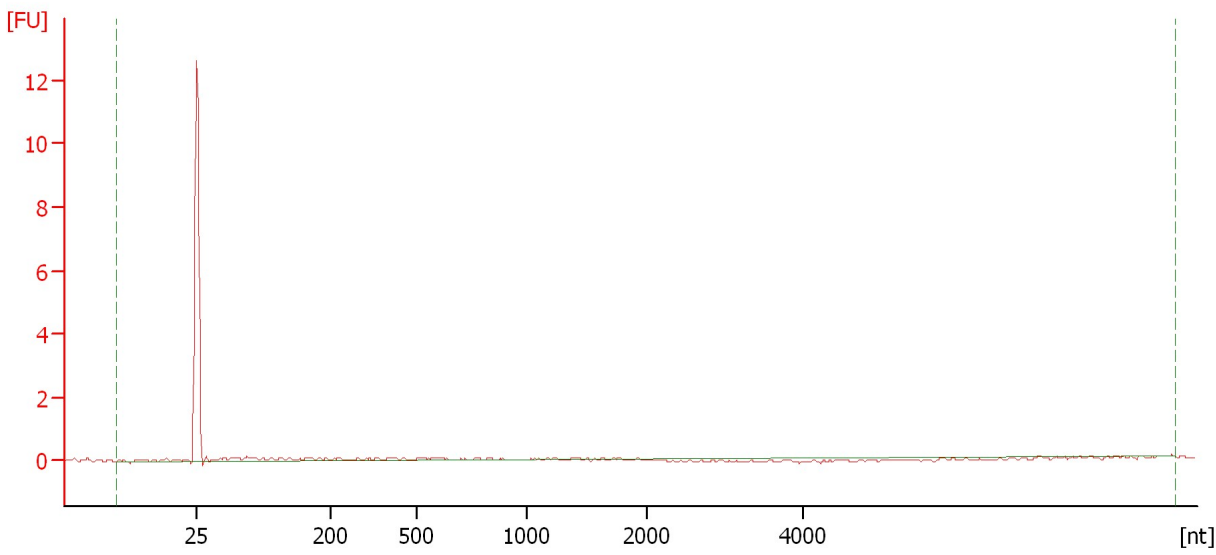
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	2,025	16.1	23.8
28S	2,960	3,705	26.0	38.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

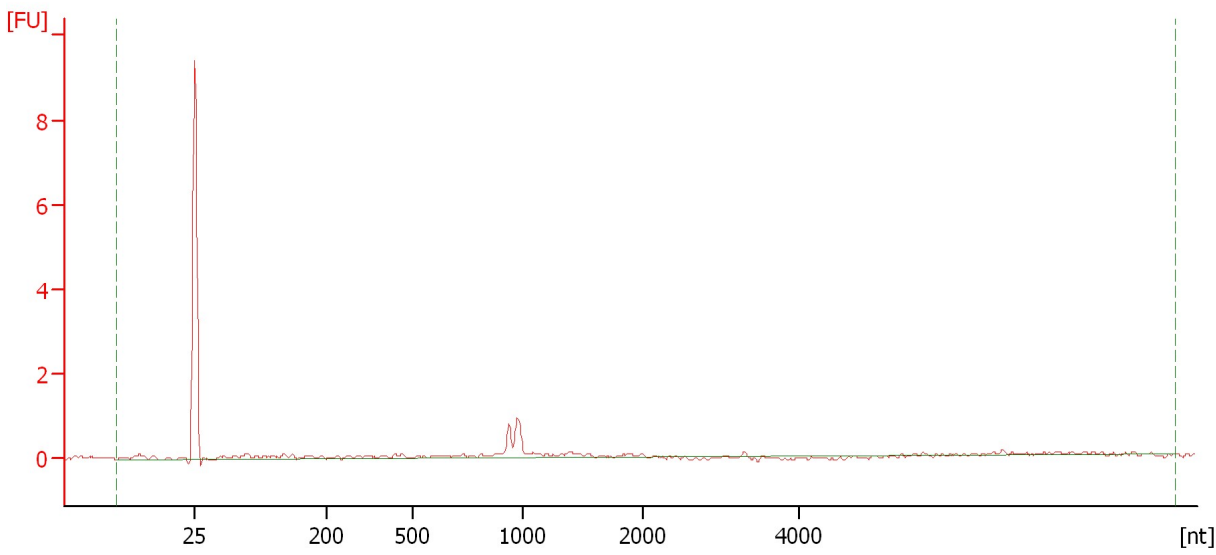
RNA Area:	2.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

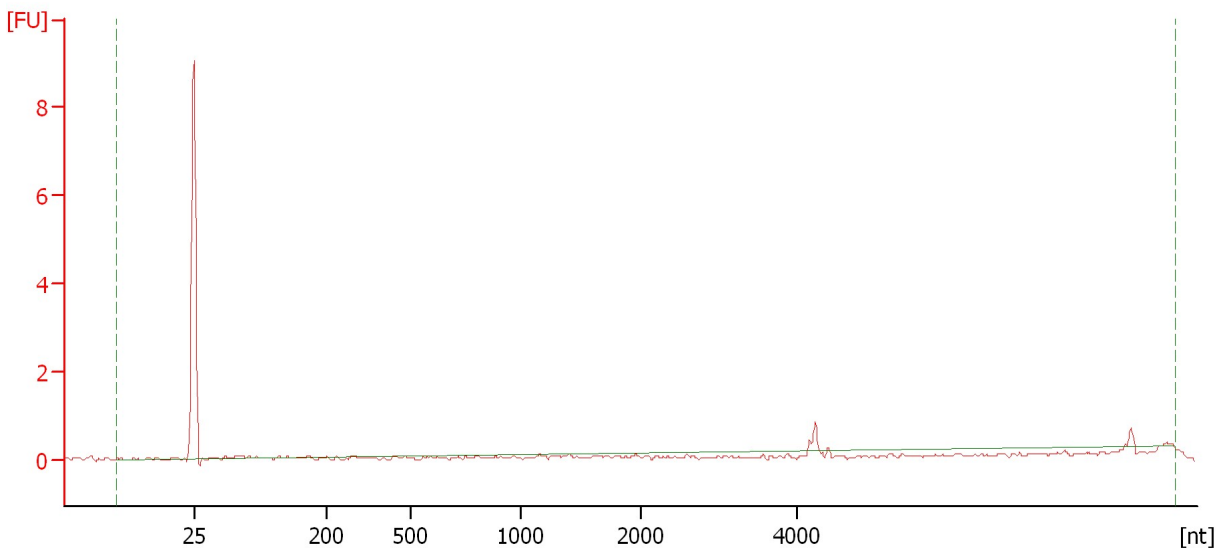
RNA Area:	4.8	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	16 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

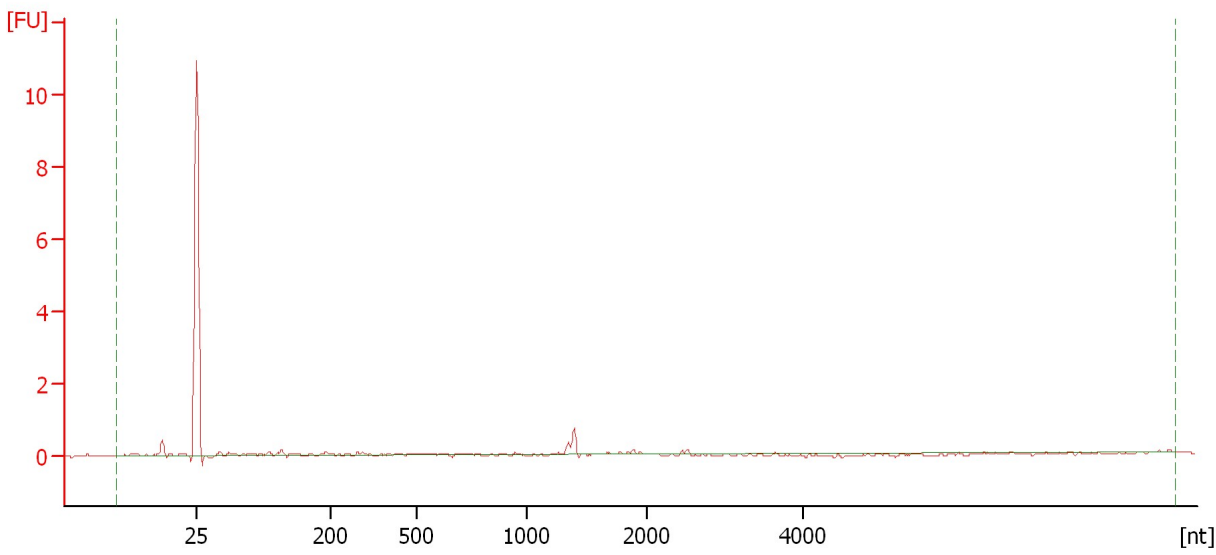
RNA Area:	0.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Electropherogram Summary Continued ...

Sample 11



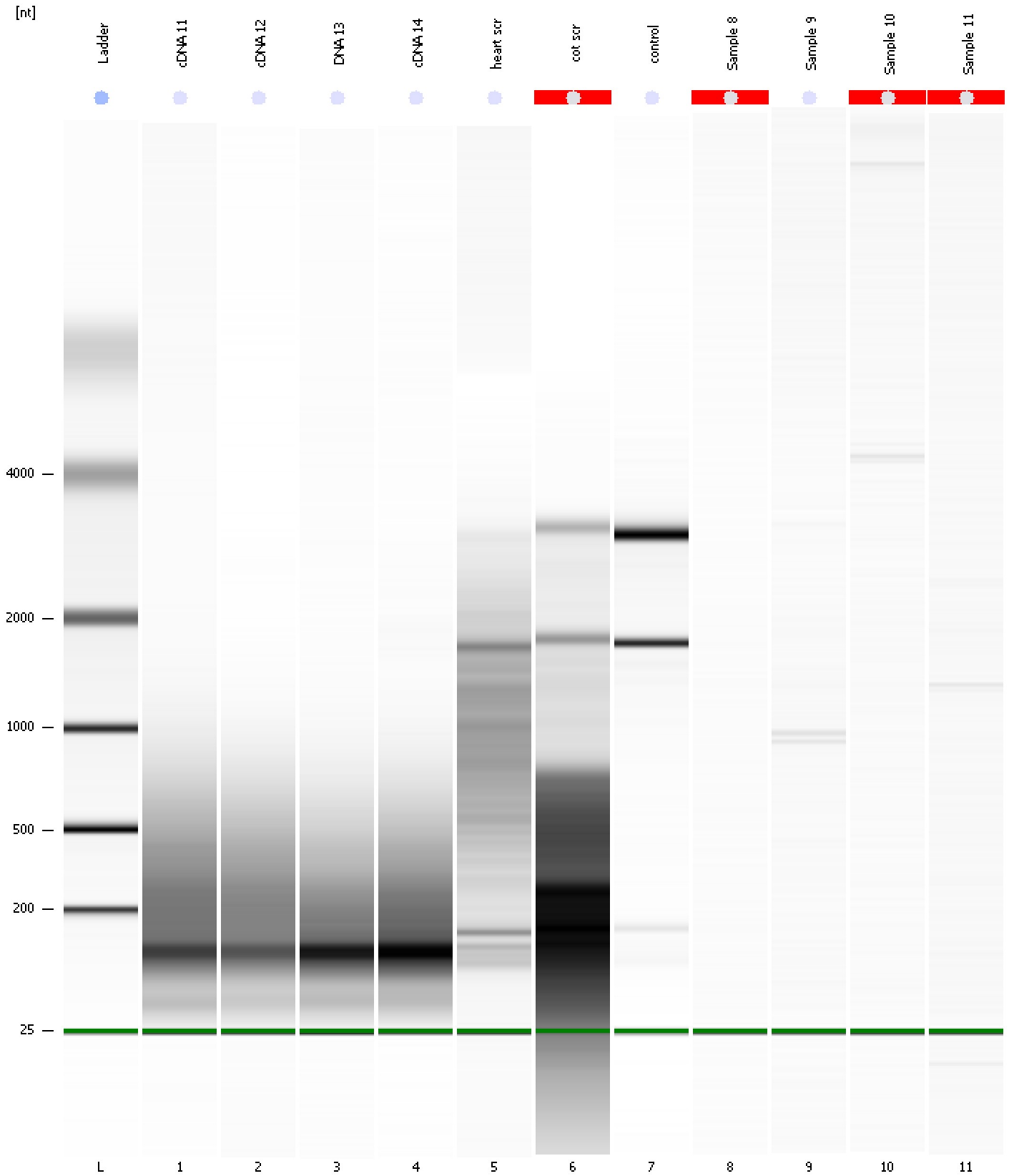
Overall Results for sample 11 : Sample 11

RNA Area:	2.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 pg/μl	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\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
Modified: 7/9/2012 12:41:46 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad

Created: 7/9/2012 12:15:12 PM
 Modified: 7/9/2012 12:41:46 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		7/9/2012 12:38:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-07-09\2012-07-09_003.xad)		Instrument	Run		7/9/2012 12:15:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/9/2012 12:15:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/9/2012 12:15:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/9/2012 12:15:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/9/2012 12:15:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/9/2012 12:15:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/9/2012 12:15:17 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1