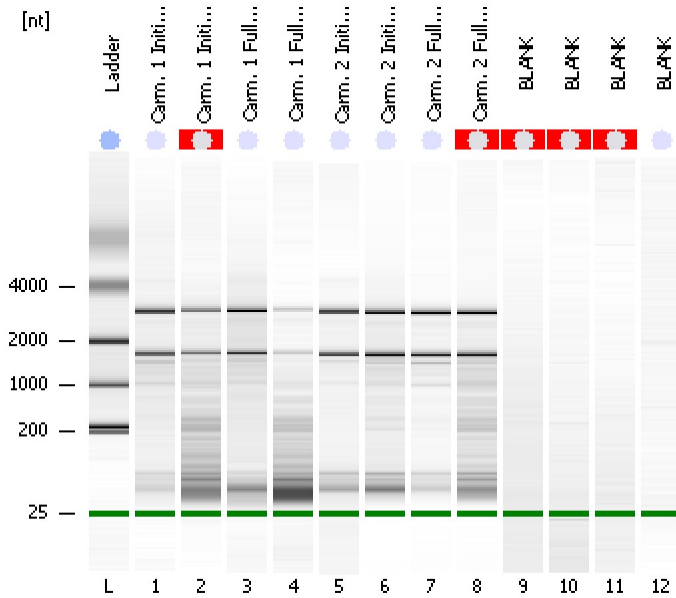


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electrophoresis File Run Summary



Instrument Information:

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

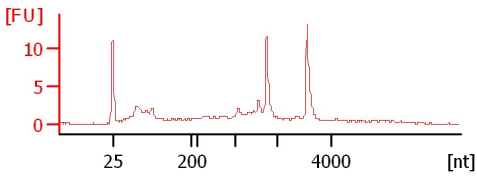
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

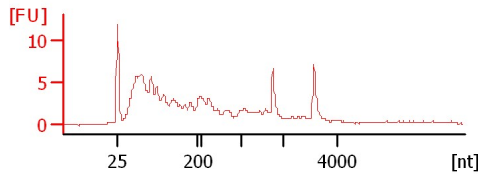
Chip Information:

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

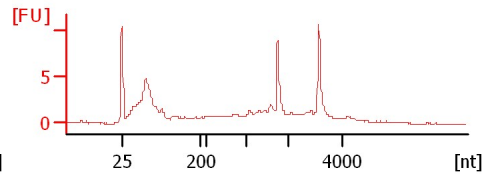
Carm. 1 Initial F3
RIN: 7



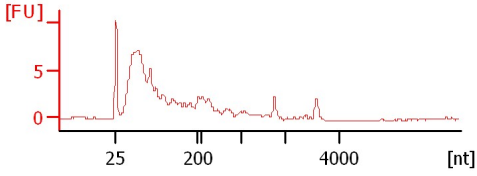
Carm. 1 Initial M3
RIN N/A



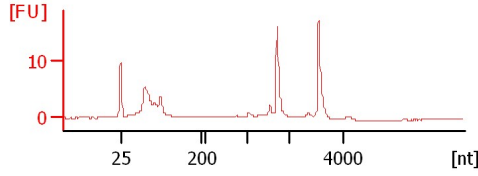
Carm. 1 Full F3
RIN: 6.10



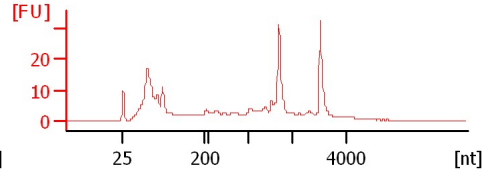
Carm. 1 Full M3
RIN: 3.20



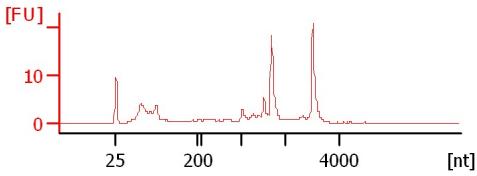
Carm. 2 Initial F3
RIN: 7.90



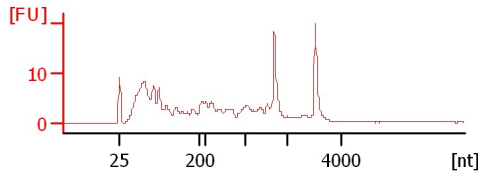
Carm. 2 Initial M3
RIN: 6.50



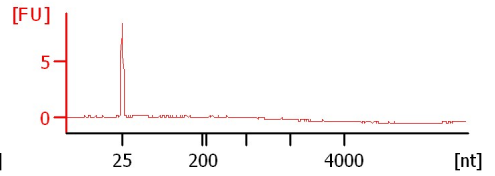
Carm. 2 Full F3
RIN: 7.30



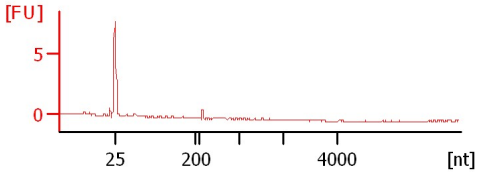
Carm. 2 Full M3
RIN N/A



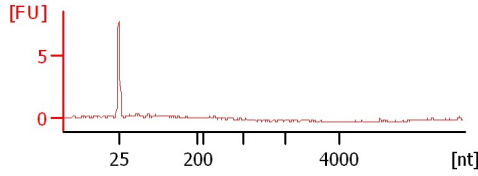
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RIN N/A



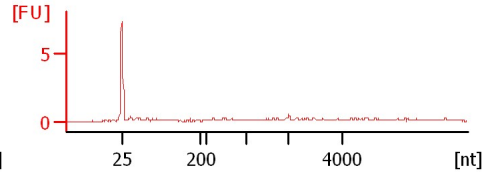
BLANK
RIN N/A



BLANK
RIN N/A



BLANK
RIN: 4.20



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Carm. 1 Initial F3		✓	RIN:7	
Carm. 1 Initial M3		✓	RIN N/A	
Carm. 1 Full F3		✓	RIN: 6.10	
Carm. 1 Full M3		✓	RIN: 3.20	
Carm. 2 Initial F3		✓	RIN: 7.90	
Carm. 2 Initial M3		✓	RIN: 6.50	
Carm. 2 Full F3		✓	RIN: 7.30	
Carm. 2 Full M3		✓	RIN N/A	
BLANK		✓	RIN N/A	
BLANK		✓	RIN N/A	
BLANK		✓	RIN N/A	
BLANK		✓	RIN: 4.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

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

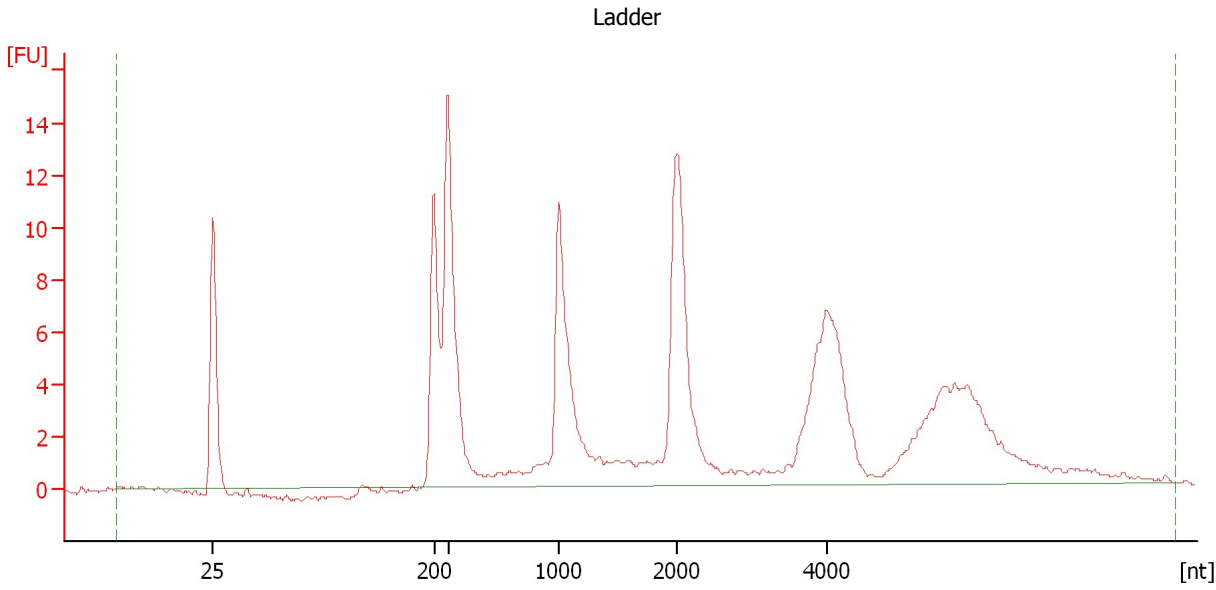
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary



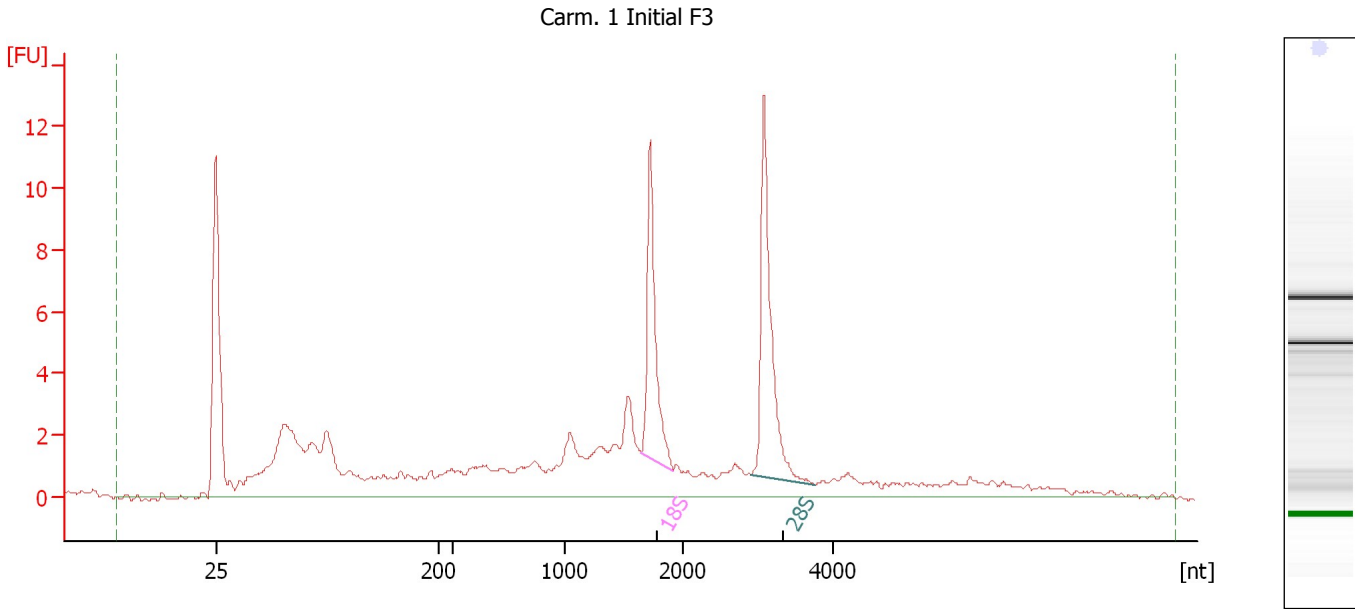
Overall Results for Ladder

RNA Area:	149.9	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
 Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Carm. 1 Initial F3

RNA Area:	109.8	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	110 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:7

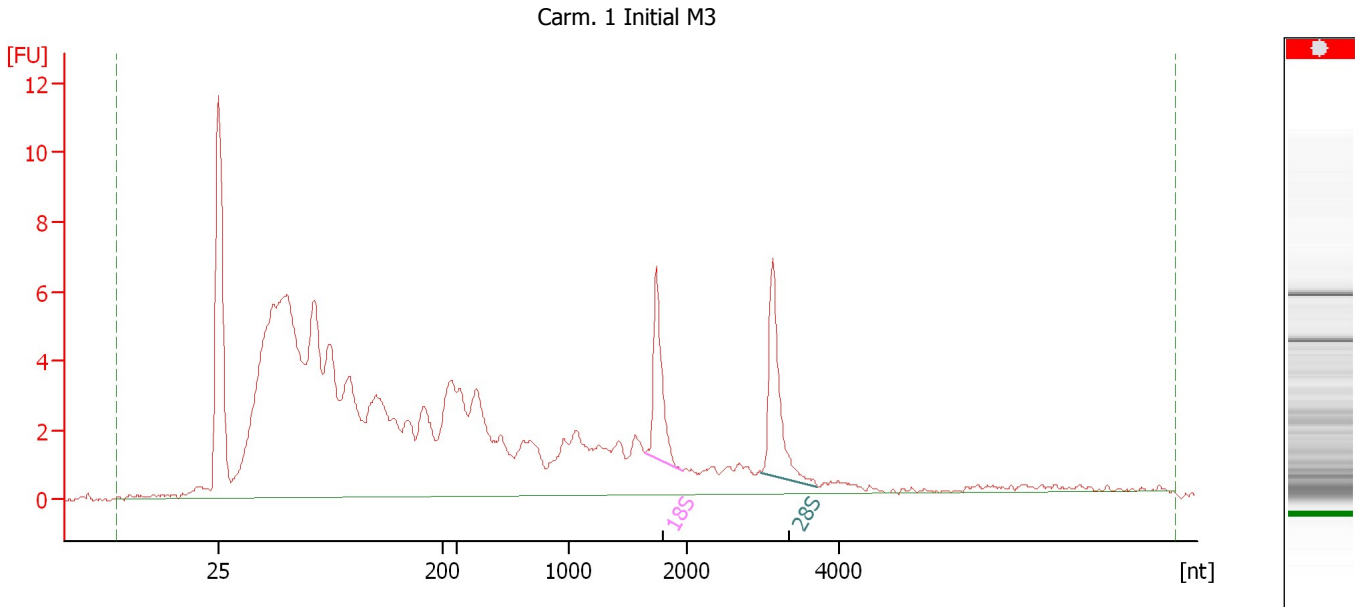
Fragment table for sample 1 : Carm. 1 Initial F3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,921	10.1	9.2
28S	2,898	3,750	13.2	12.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
 Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Carm. 1 Initial M3

RNA Area:	178.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	179 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN N/A

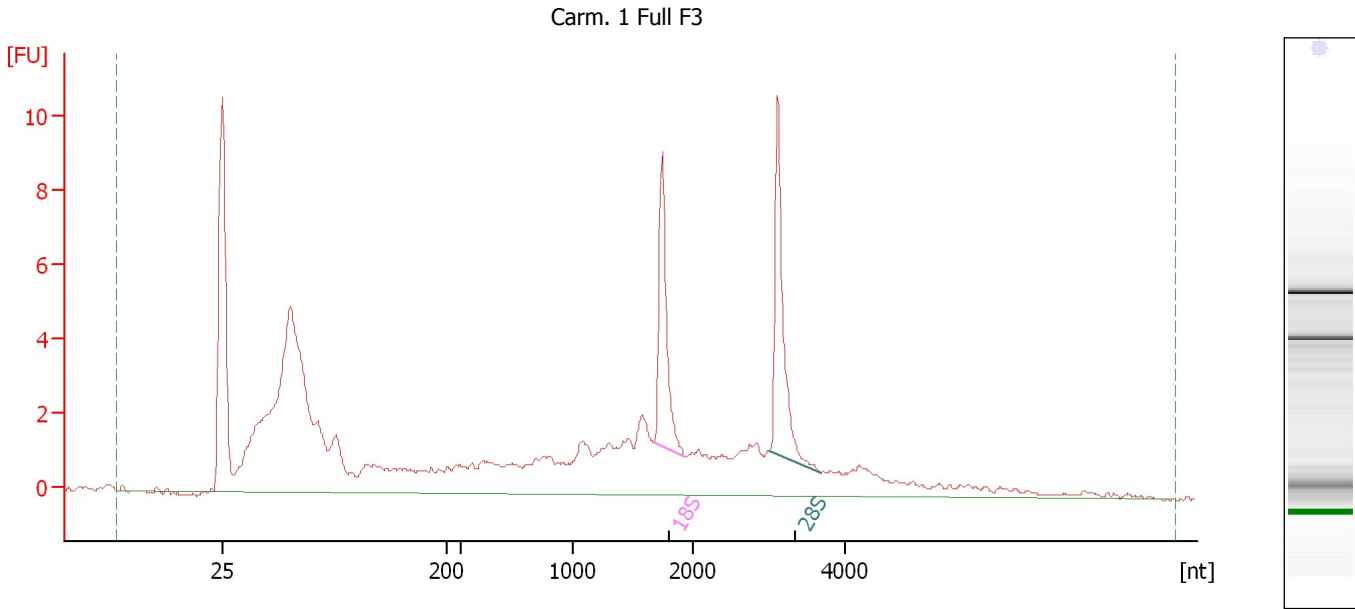
Fragment table for sample 2 : Carm. 1 Initial M3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	1,959	5.4	3.0
28S	2,982	3,731	6.8	3.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Carm. 1 Full F3

RNA Area:	112.6	RNA Integrity Number (RIN):	6.1 (B.02.08)
RNA Concentration:	113 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 6.10

Fragment table for sample 3 : Carm. 1 Full F3

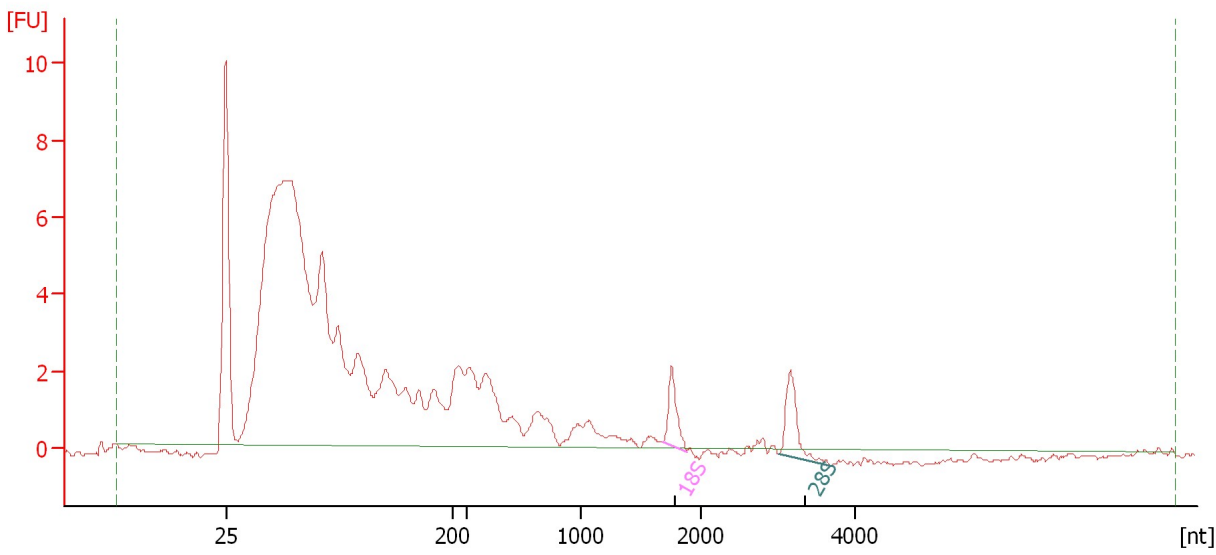
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	1,935	6.8	6.1
28S	3,008	3,668	8.4	7.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...

Carm. 1 Full M3



Overall Results for sample 4 : Carm. 1 Full M3

RNA Area: 122.1 RNA Integrity Number (RIN): 3.2 (B.02.08)
RNA Concentration: 122 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 3.20

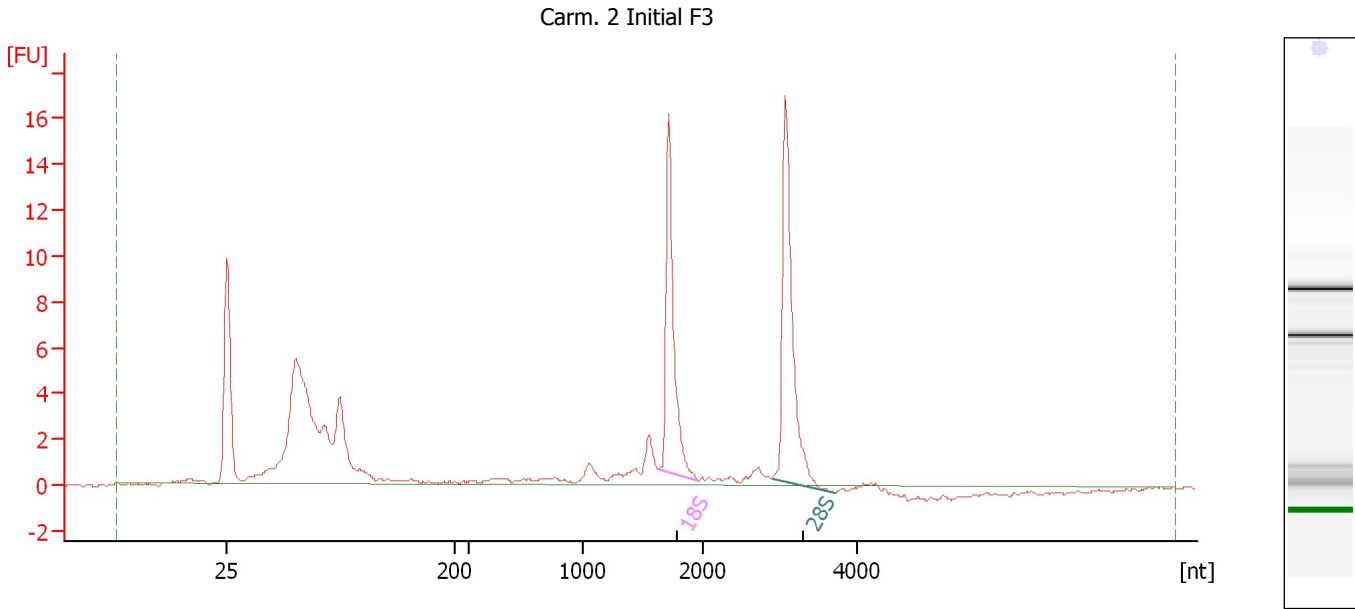
Fragment table for sample 4 : Carm. 1 Full M3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,673	1,877	2.0	1.6
28S	3,005	3,702	2.7	2.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Carm. 2 Initial F3

RNA Area: 84.9 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 85 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 7.90

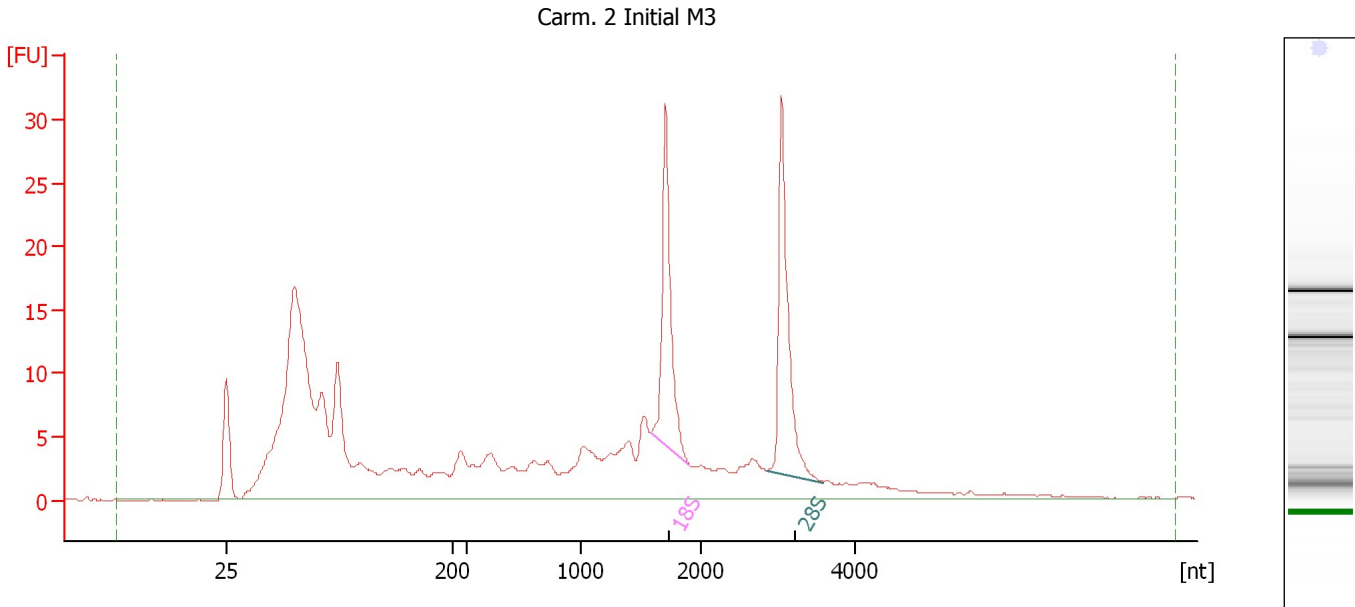
Fragment table for sample 5 : Carm. 2 Initial F3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,621	1,957	14.3	16.8
28S	2,893	3,714	16.9	19.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Carm. 2 Initial M3

RNA Area: 339.1 RNA Integrity Number (RIN): 6.5 (B.02.08)
RNA Concentration: 339 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 6.50

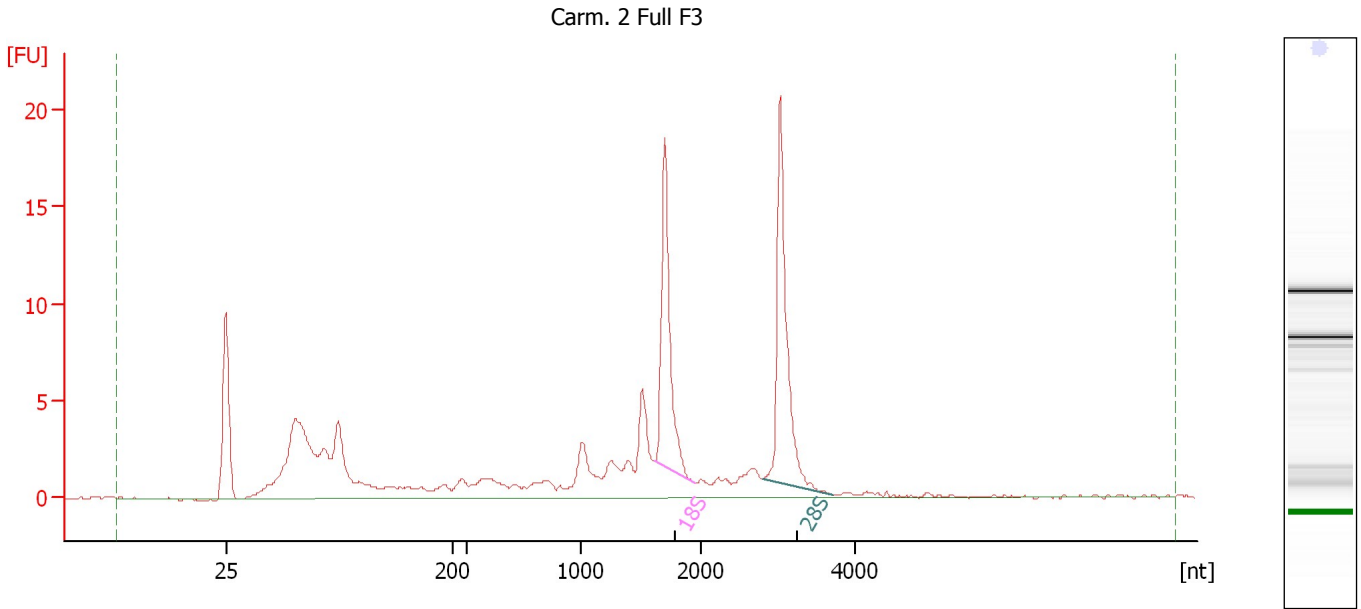
Fragment table for sample 6 : Carm. 2 Initial M3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,903	26.9	7.9
28S	2,852	3,590	29.3	8.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Carm. 2 Full F3

RNA Area:	122.0	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	122 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.30

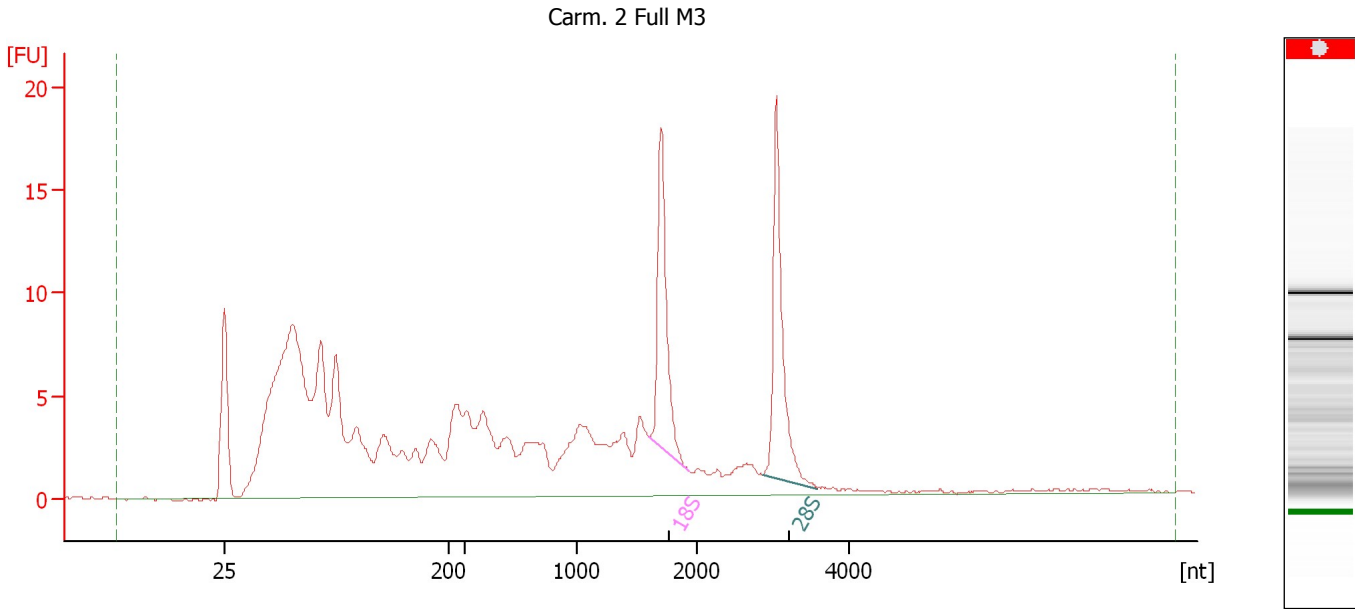
Fragment table for sample 7 : Carm. 2 Full F3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,939	16.6	13.6
28S	2,810	3,730	19.9	16.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
 Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Carm. 2 Full M3

RNA Area:	249.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	250 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN N/A

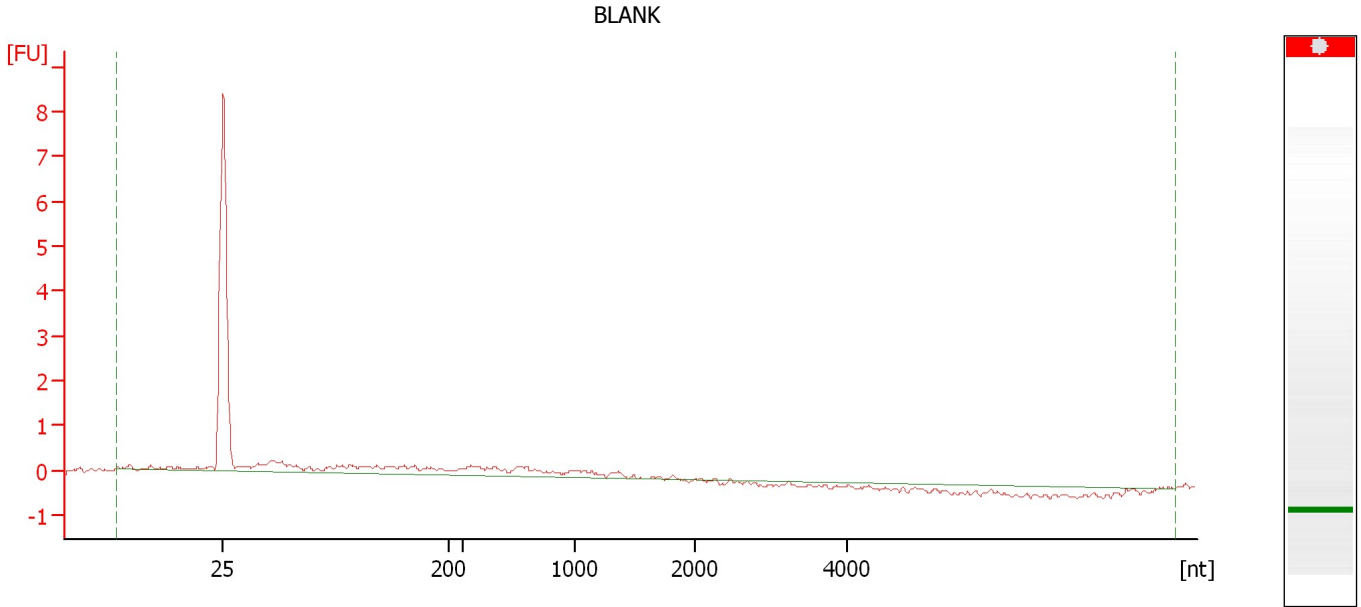
Fragment table for sample 8 : Carm. 2 Full M3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	1,937	15.7	6.3
28S	2,853	3,580	17.8	7.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



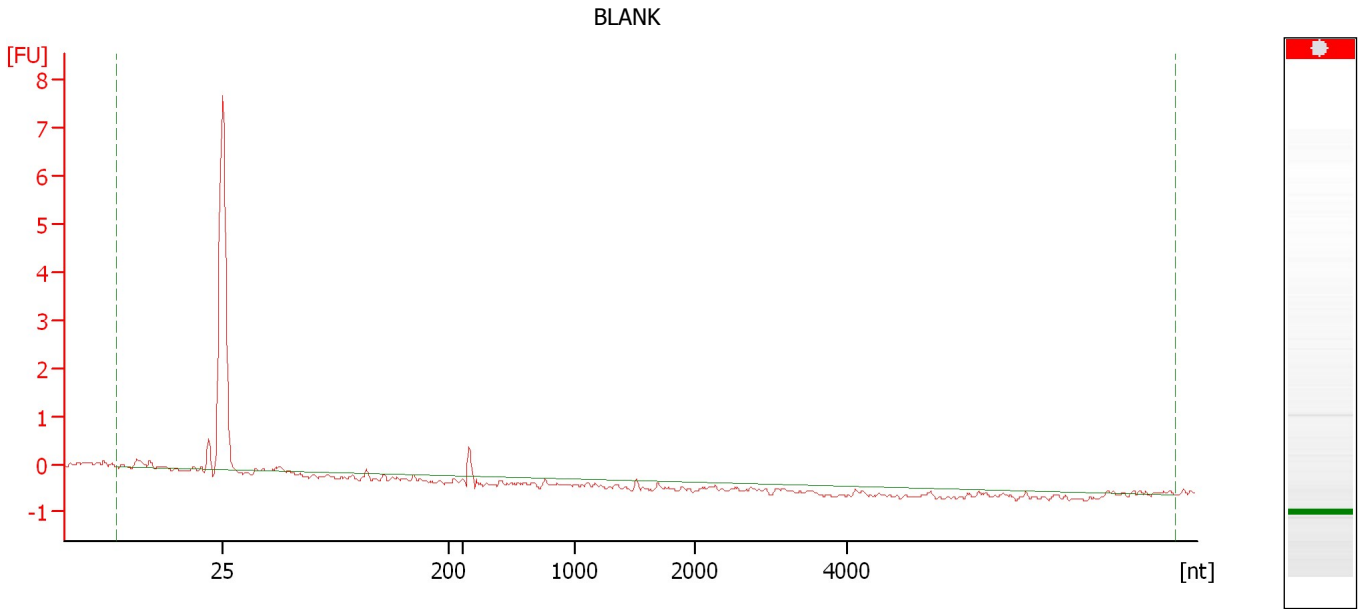
Overall Results for sample 9 : BLANK

RNA Area:	6.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



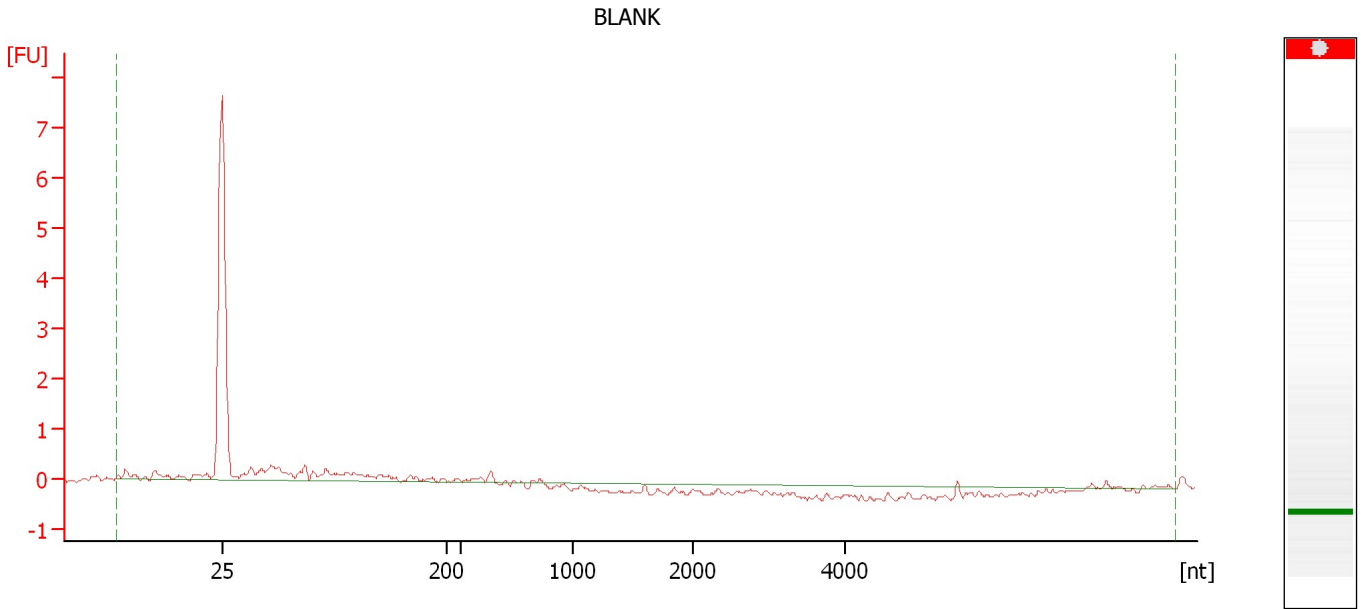
Overall Results for sample 10 : BLANK

RNA Area:	1.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



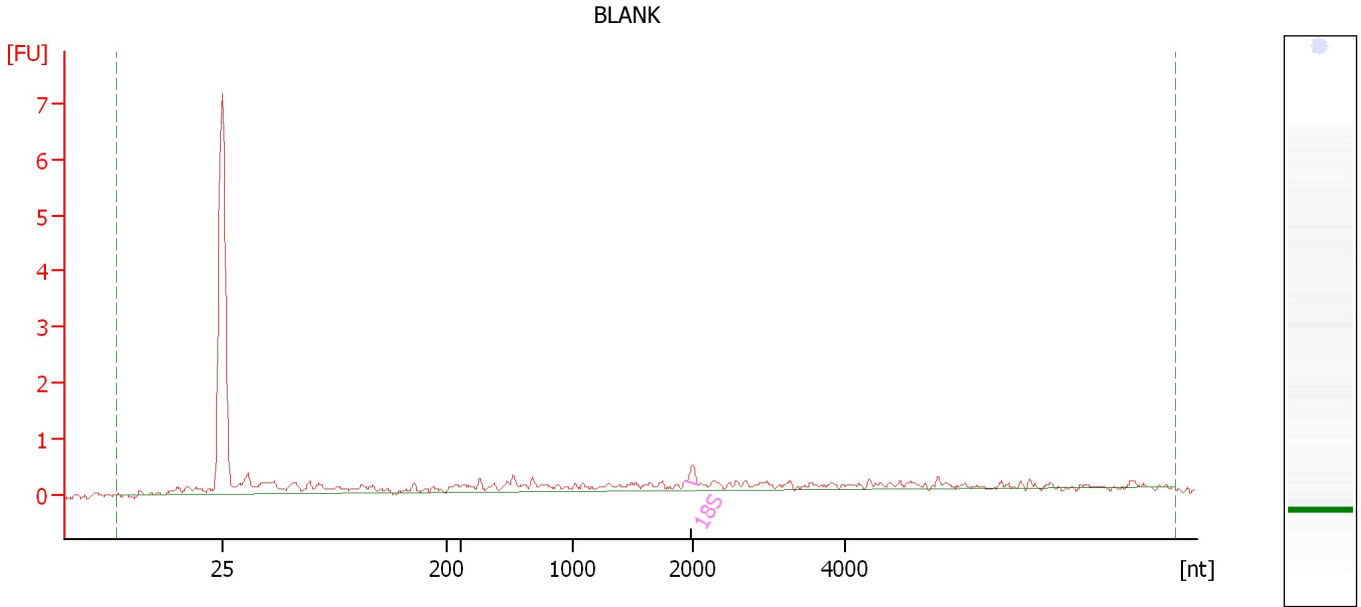
Overall Results for sample 11 : BLANK

RNA Area:	5.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : BLANK

RNA Area:	10.0	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	10 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.20

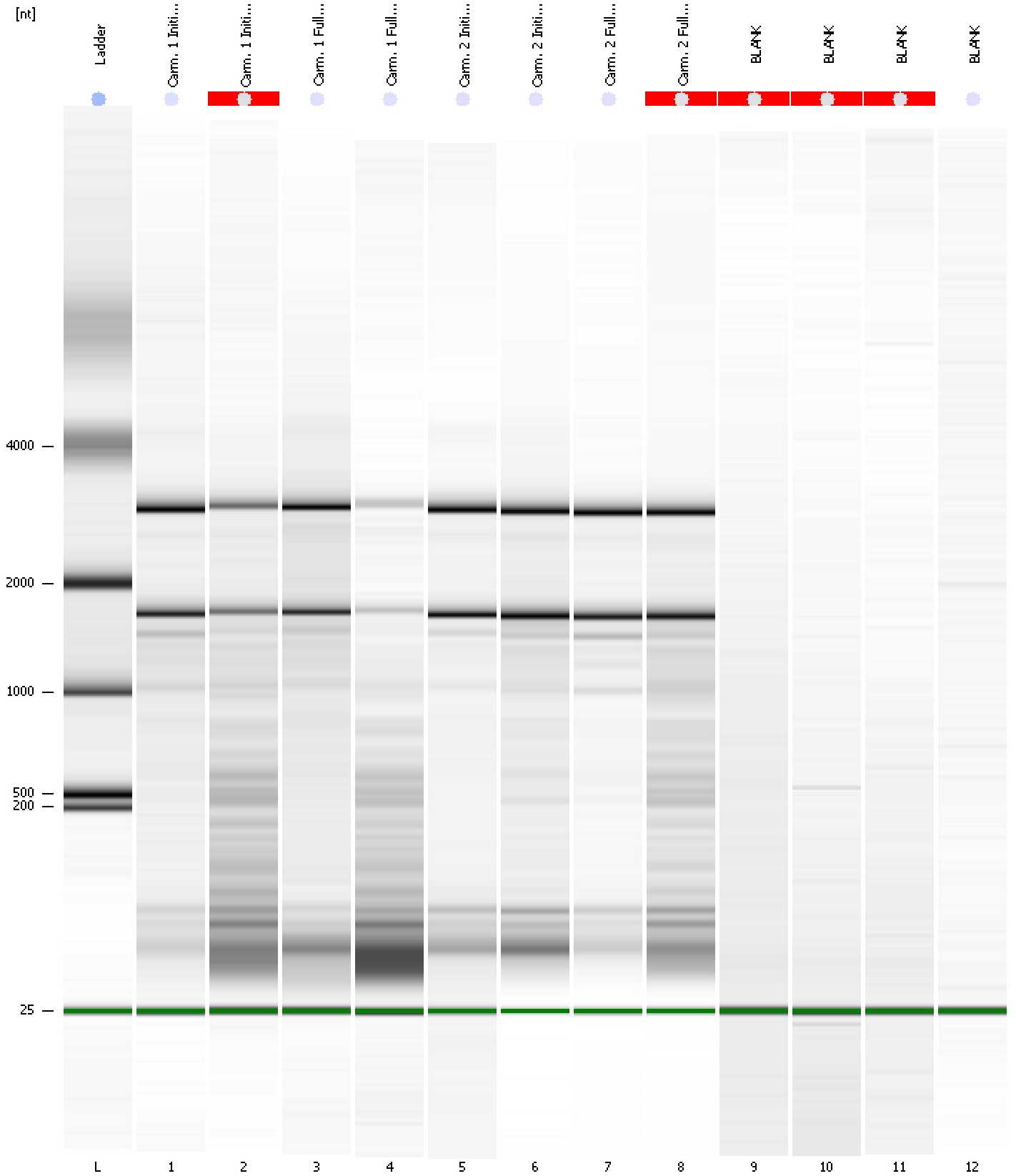
Fragment table for sample 12 : BLANK

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,935	2,066	0.2	1.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad

Created: 2/3/2017 2:36:56 PM
Modified: 2/3/2017 3:00:48 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano Created: 2/3/2017 2:36:56 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad Modified: 2/3/2017 3:00:48 PM

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		2/3/2017 3:00:45 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-02-03\2017-02-03_001.xad)		Instrument	Run		2/3/2017 2:37:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/3/2017 2:37:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/3/2017 2:37:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/3/2017 2:37:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/3/2017 2:37:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/3/2017 2:37:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/3/2017 2:37:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1