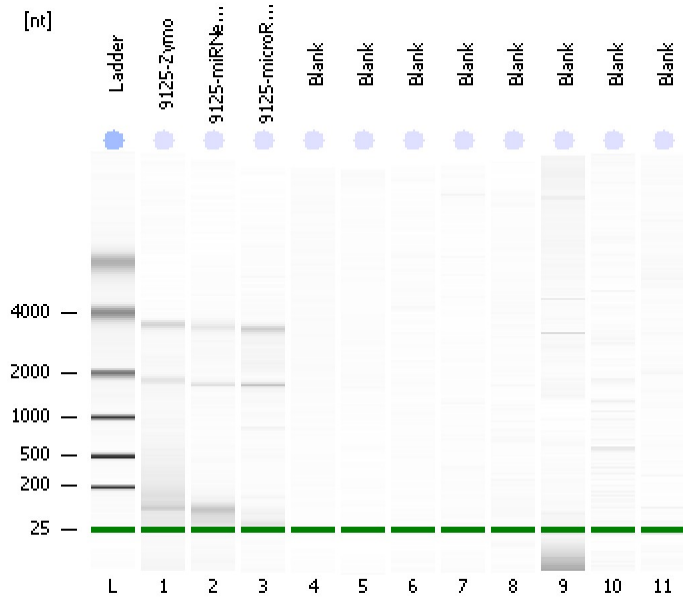


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

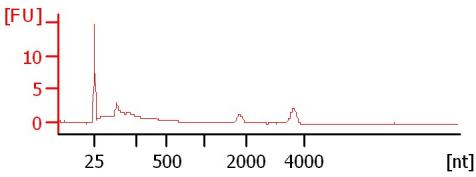
Assay Information:

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.

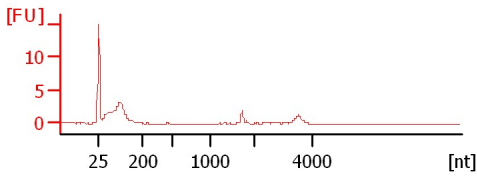
Chip Information:

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

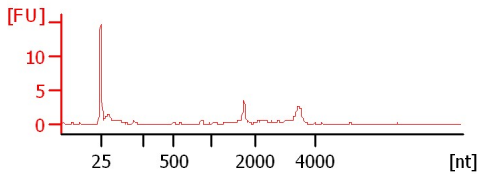
9125-Zymo
RIN: 5.20



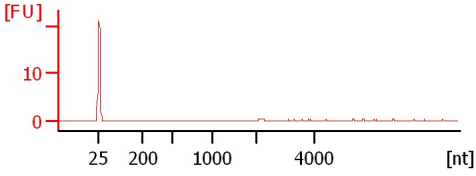
9125-miRNeasy mini
RIN: 5.90



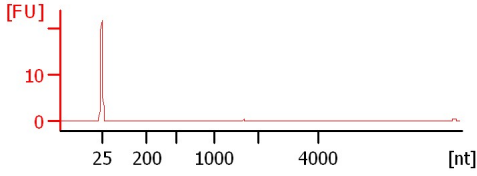
9125-microRNeasy
RIN: 8.60



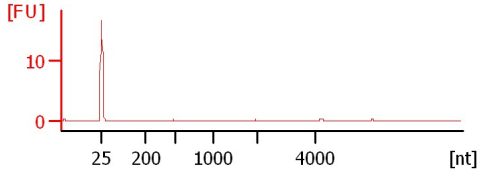
Blank
RIN:1



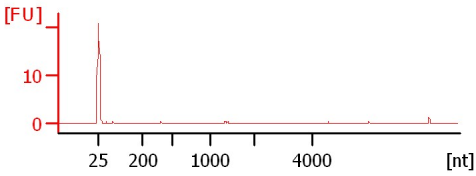
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RIN:1



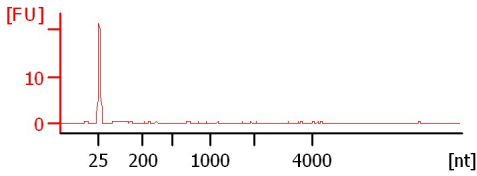
Blank
RIN:1



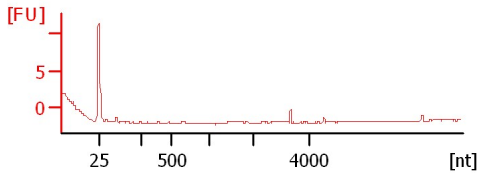
Blank
RIN: 5.60



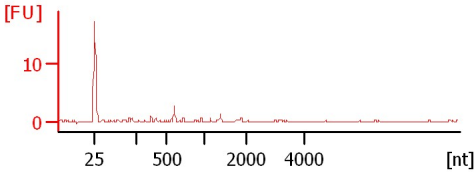
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RIN: 5.50



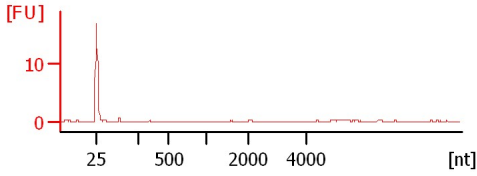
Blank
RIN: 1.10



Blank
RIN: 4.10



Blank
RIN: 3.10



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
9125-Zymo		✓	RIN: 5.20	
9125-miRNeasy mini		✓	RIN: 5.90	
9125-microRNeasy		✓	RIN: 8.60	
Blank		✓	RIN:1	
Blank		✓	RIN:1	
Blank		✓	RIN:1	
Blank		✓	RIN: 5.60	
Blank		✓	RIN: 5.50	
Blank		✓	RIN: 1.10	
Blank		✓	RIN: 4.10	
Blank		✓	RIN: 3.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 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/ μ l] : 1000

Lower Marker Concentration [pg/ μ l] : 0

Upper Marker Concentration [pg/ μ l] : 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

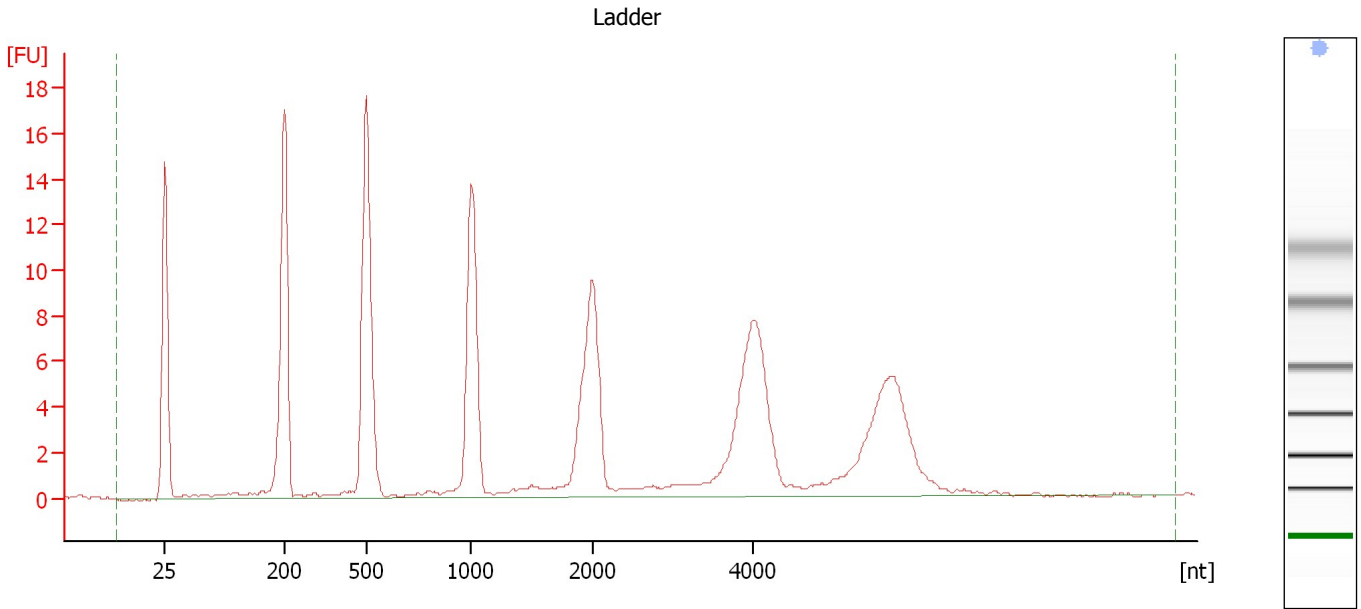
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary



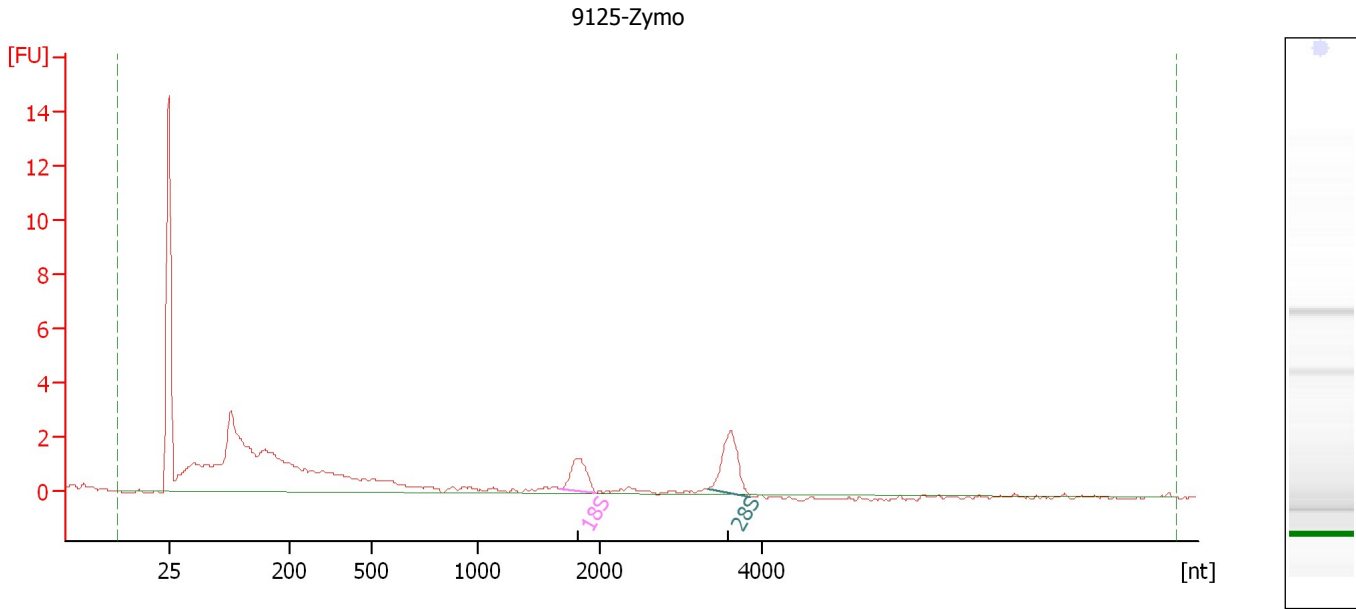
Overall Results for Ladder

RNA Area:	157.5	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 9125-Zymo

RNA Area: 49.9 RNA Integrity Number (RIN): 5.2 (B.02.08)
RNA Concentration: 317 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 5.20

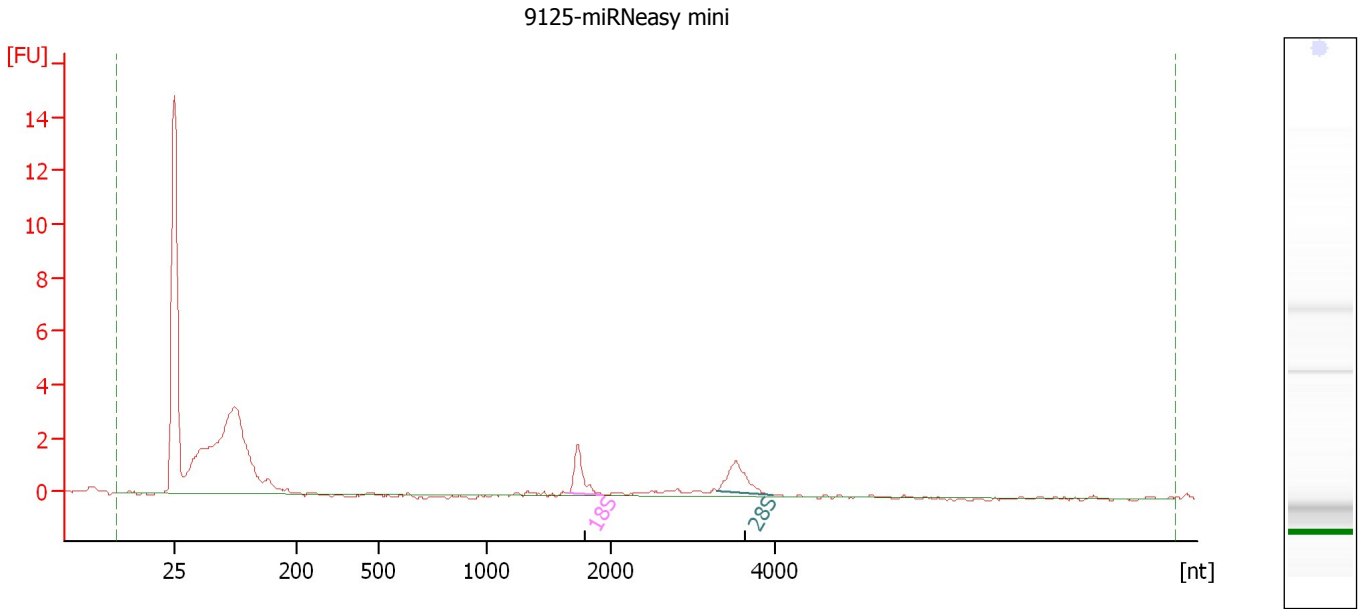
Fragment table for sample 1 : 9125-Zymo

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	1,975	2.5	5.0
28S	3,353	3,870	4.0	7.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
 Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 9125-miRNeasy mini

RNA Area:	33.8	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	214 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 5.90

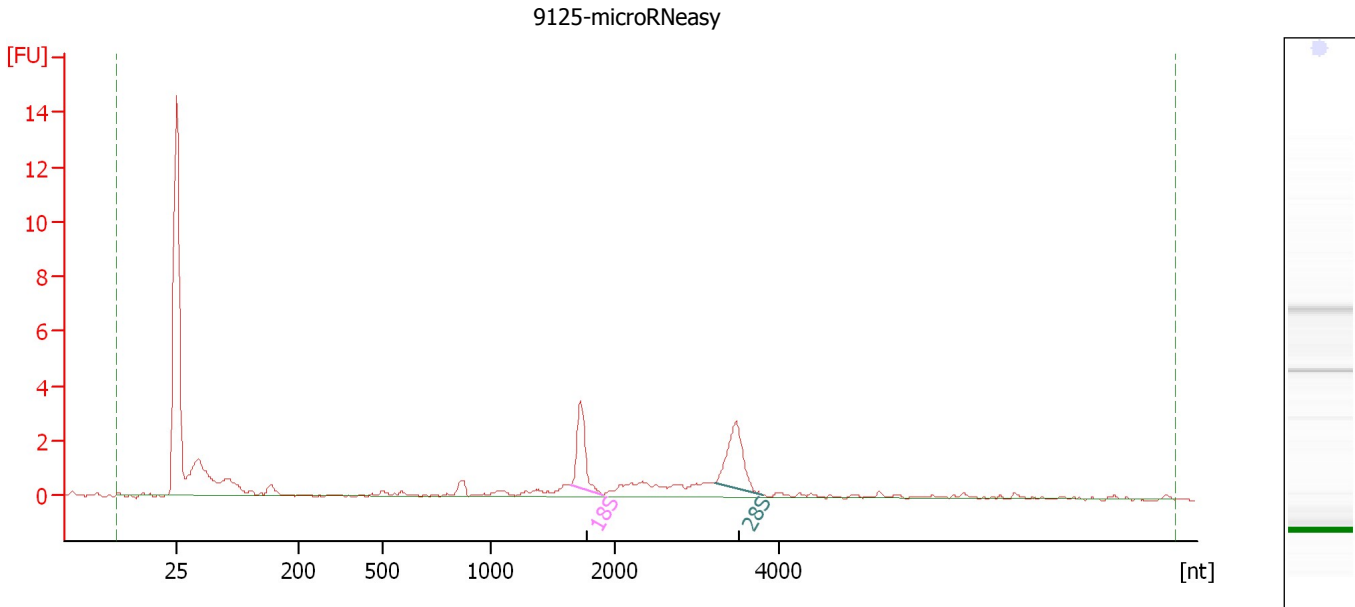
Fragment table for sample 2 : 9125-miRNeasy mini

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,936	2.1	6.4
28S	3,302	3,968	2.4	7.0

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
 Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 9125-microRNeasy

RNA Area:	28.6	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	182 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.60

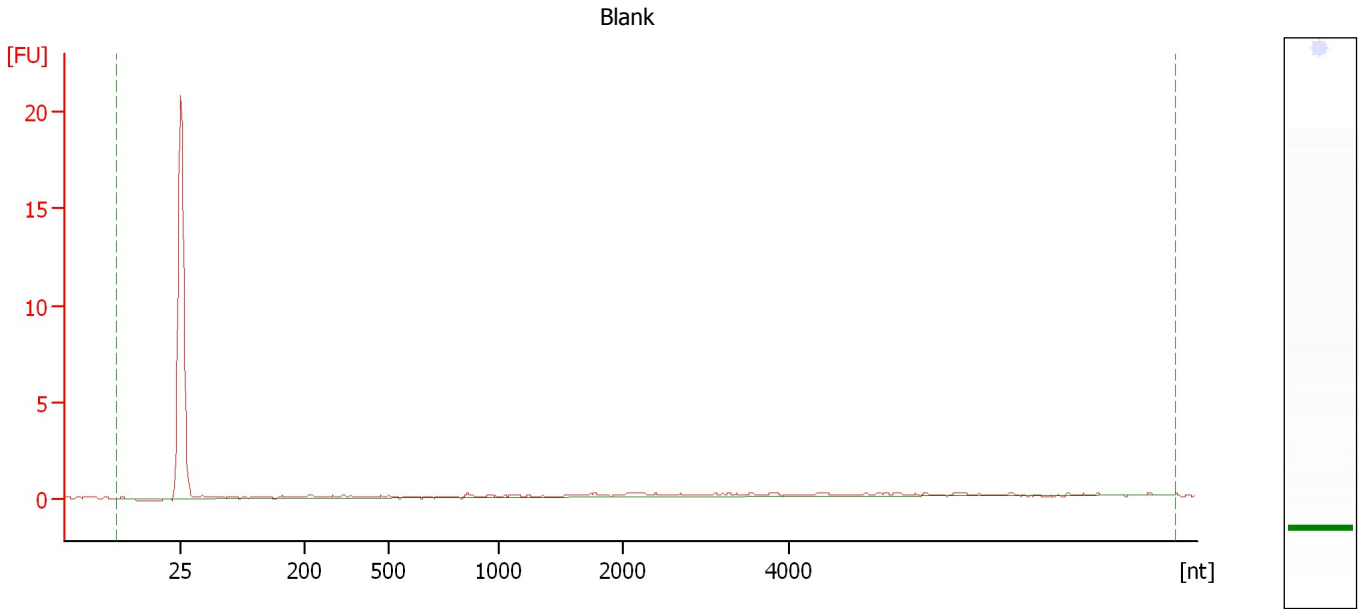
Fragment table for sample 3 : 9125-microRNeasy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,904	3.4	11.8
28S	3,220	3,806	4.2	14.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



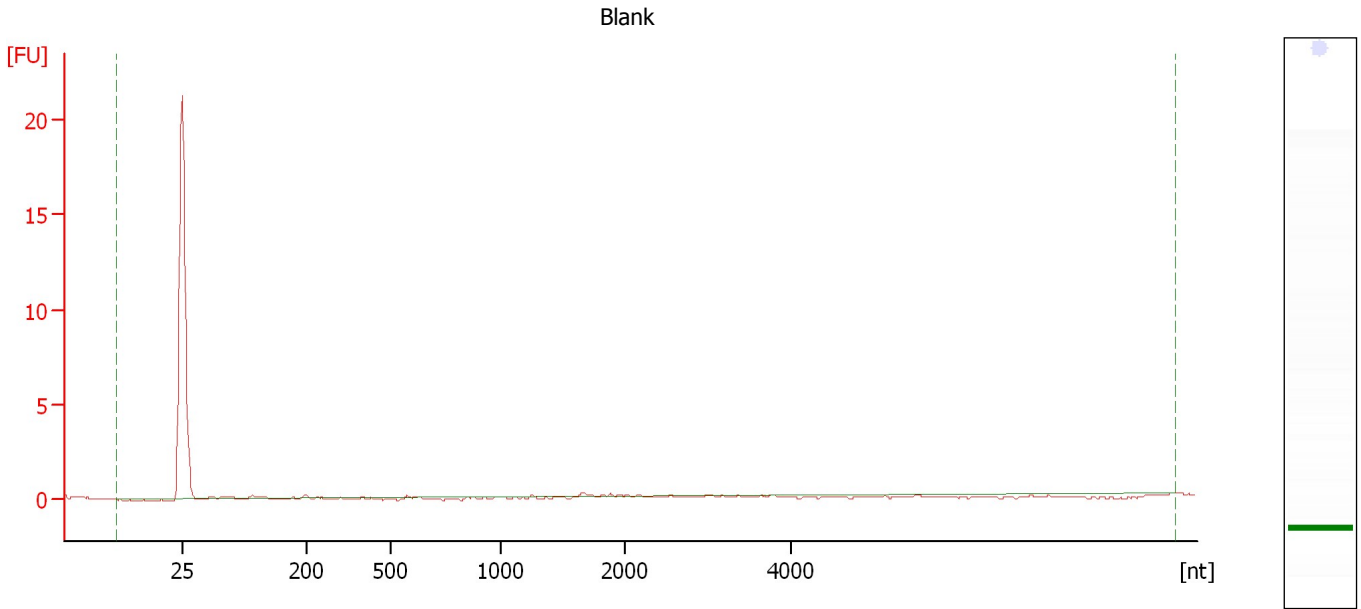
Overall Results for sample 4 : Blank

RNA Area:	7.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	48 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



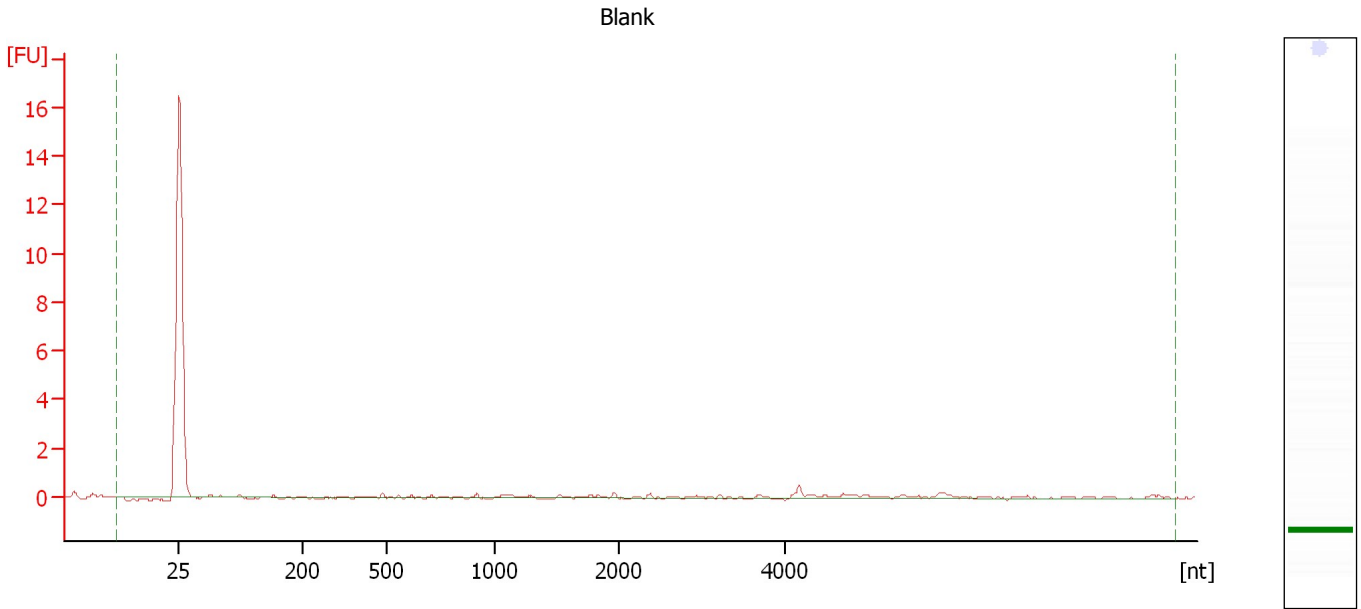
Overall Results for sample 5 : Blank

RNA Area:	1.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	8 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



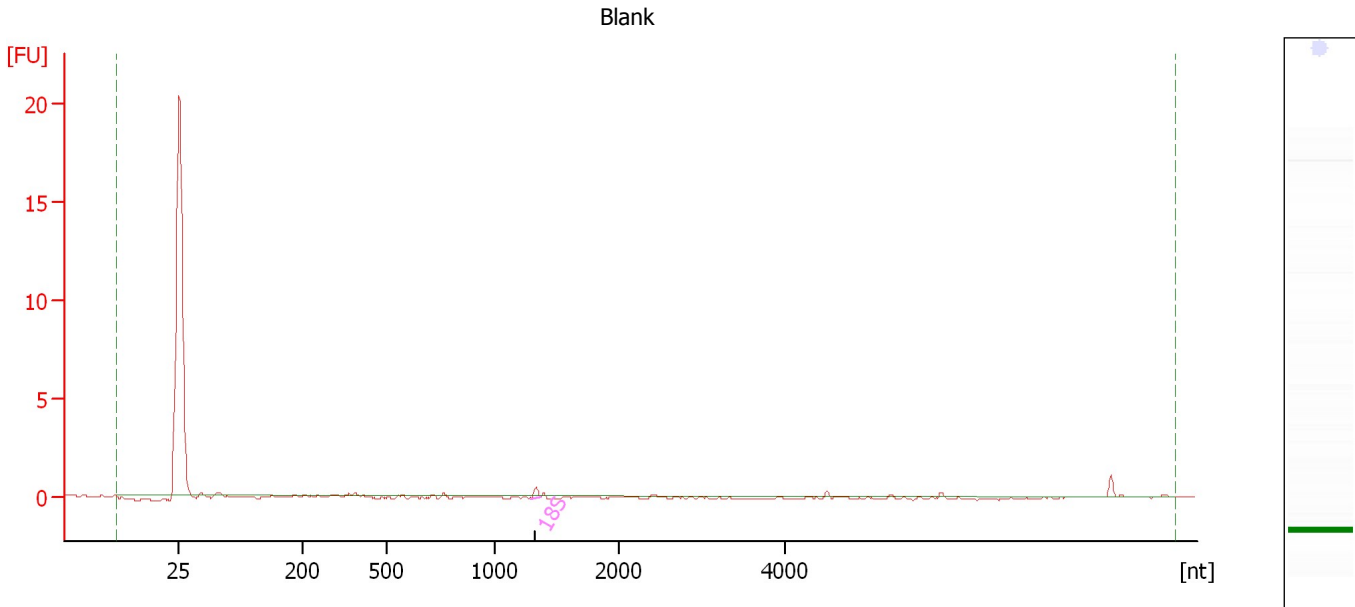
Overall Results for sample 6 : Blank

RNA Area:	6.0	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	38 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Blank

RNA Area:	2.1	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	13 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.60

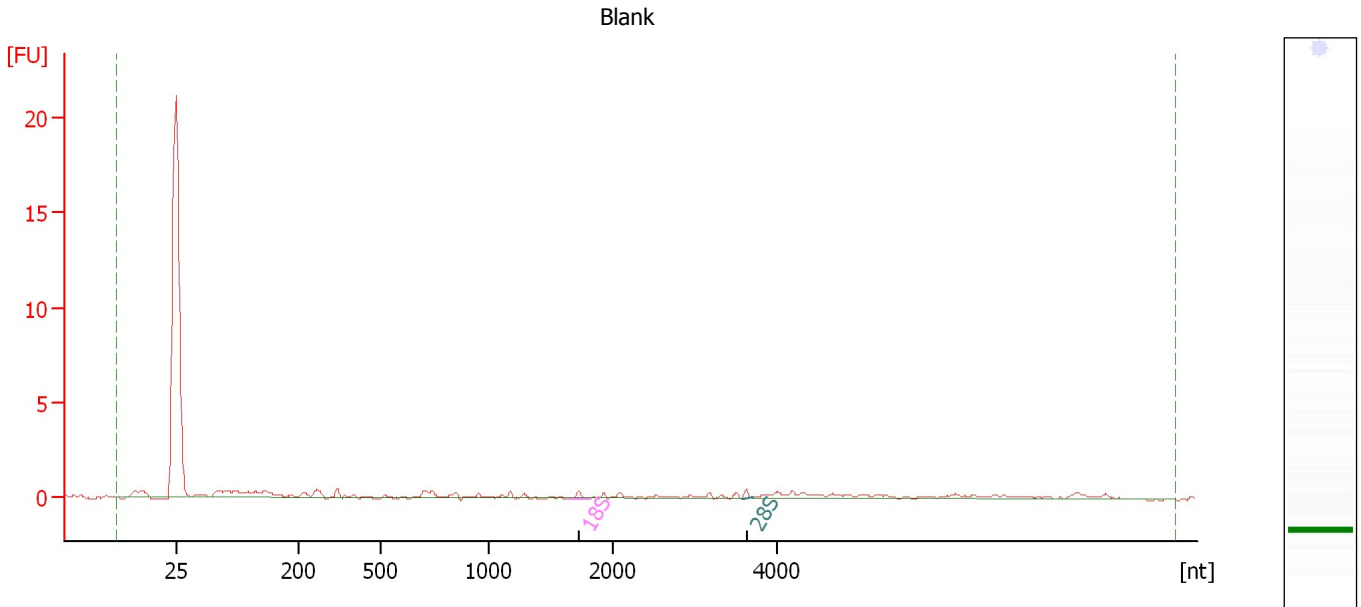
Fragment table for sample 7 : Blank

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,295	1,373	0.3	14.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Blank

RNA Area: 15.2 RNA Integrity Number (RIN): 5.5 (B.02.08)
RNA Concentration: 96 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.6 Result Flagging Label: RIN: 5.50

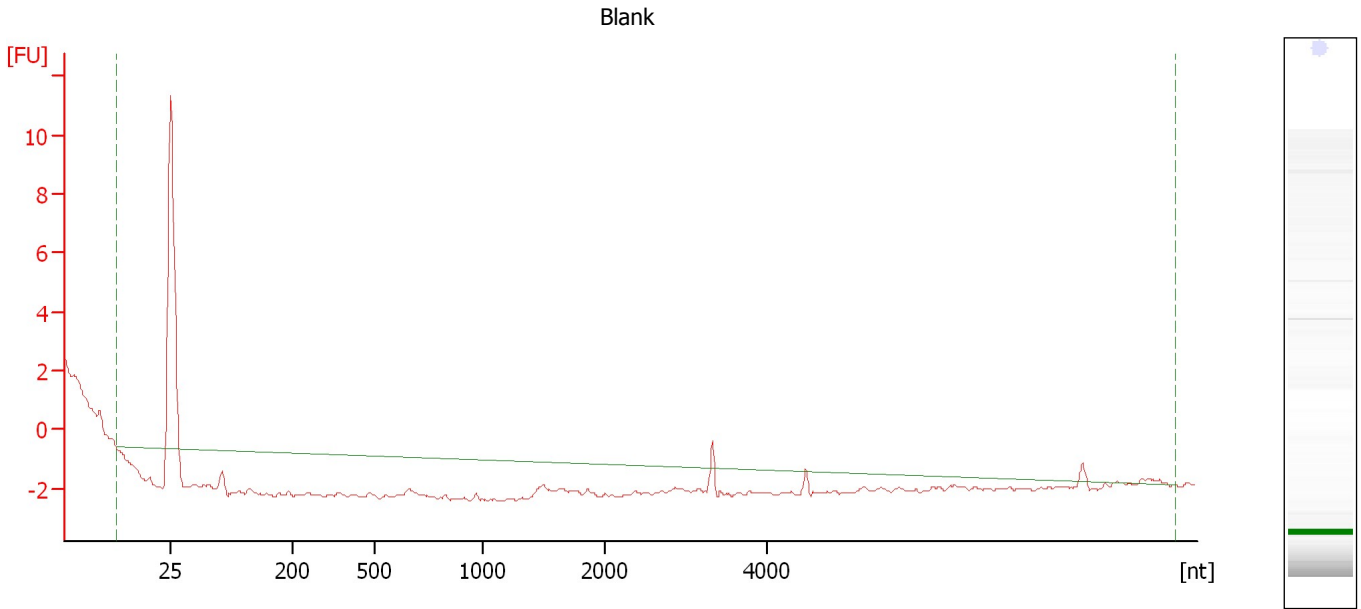
Fragment table for sample 8 : Blank

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,643	1,799	0.3	2.1
28S	3,574	3,704	0.2	1.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



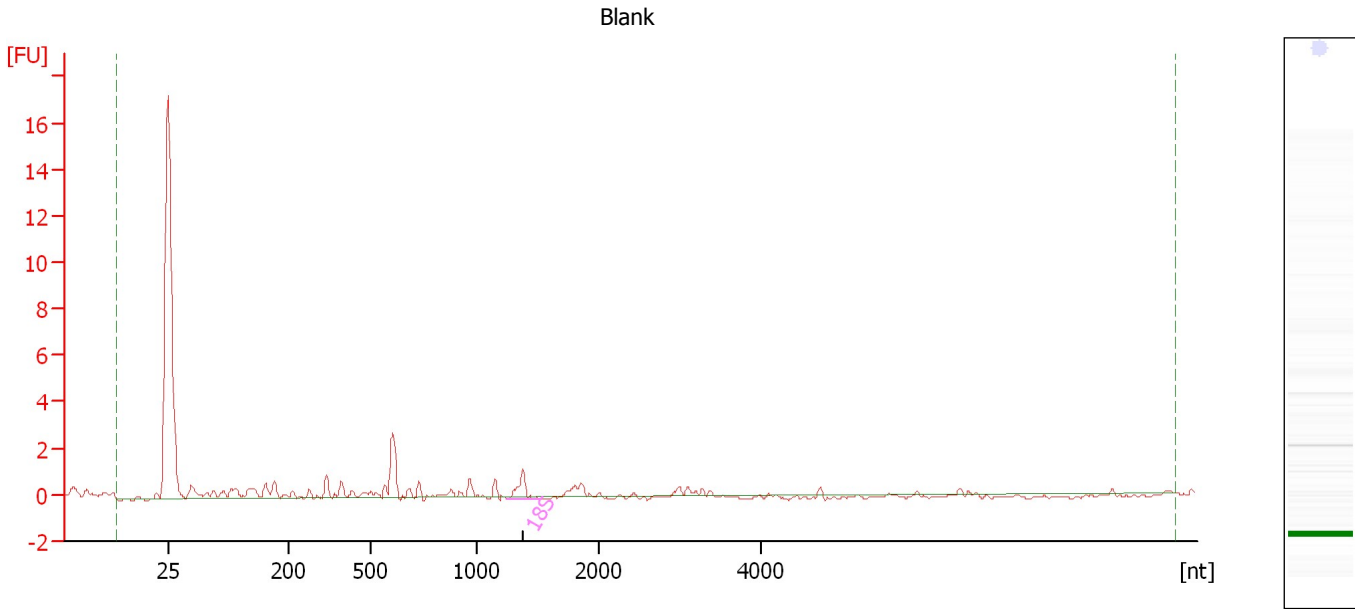
Overall Results for sample 9 : Blank

RNA Area:	1.2	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	8 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:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Blank

RNA Area:	14.8	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	94 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.10

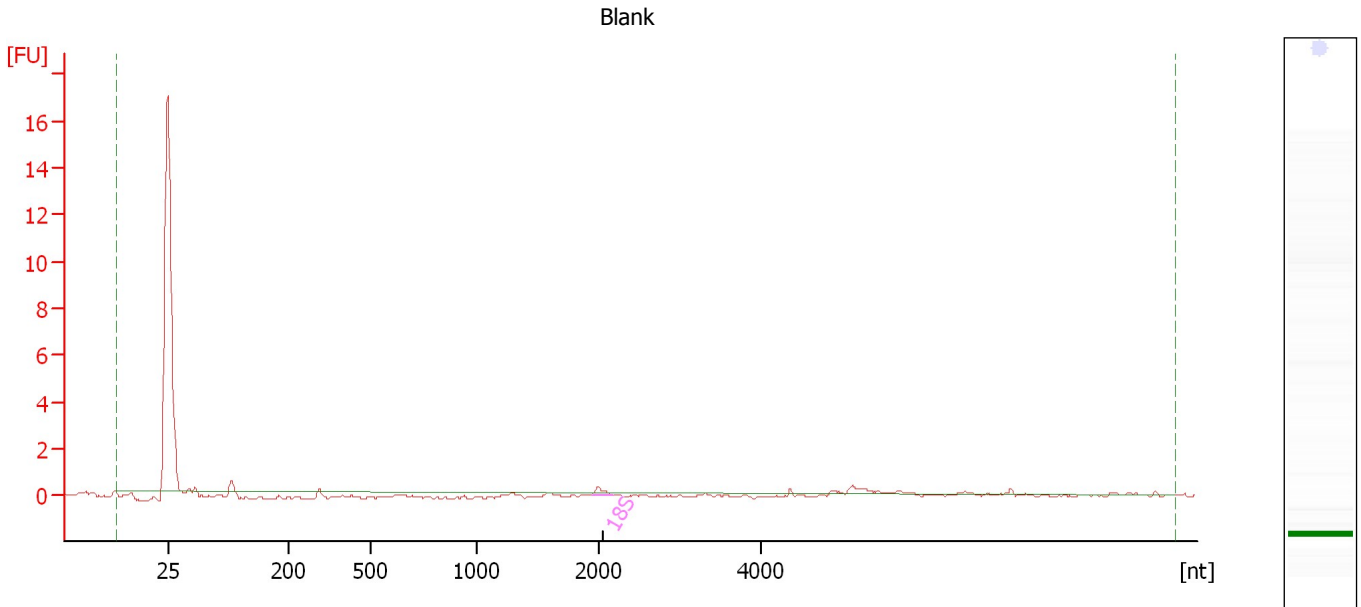
Fragment table for sample 10 : Blank

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,246	1,527	1.3	8.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Blank

RNA Area:	1.9	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	12 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.10

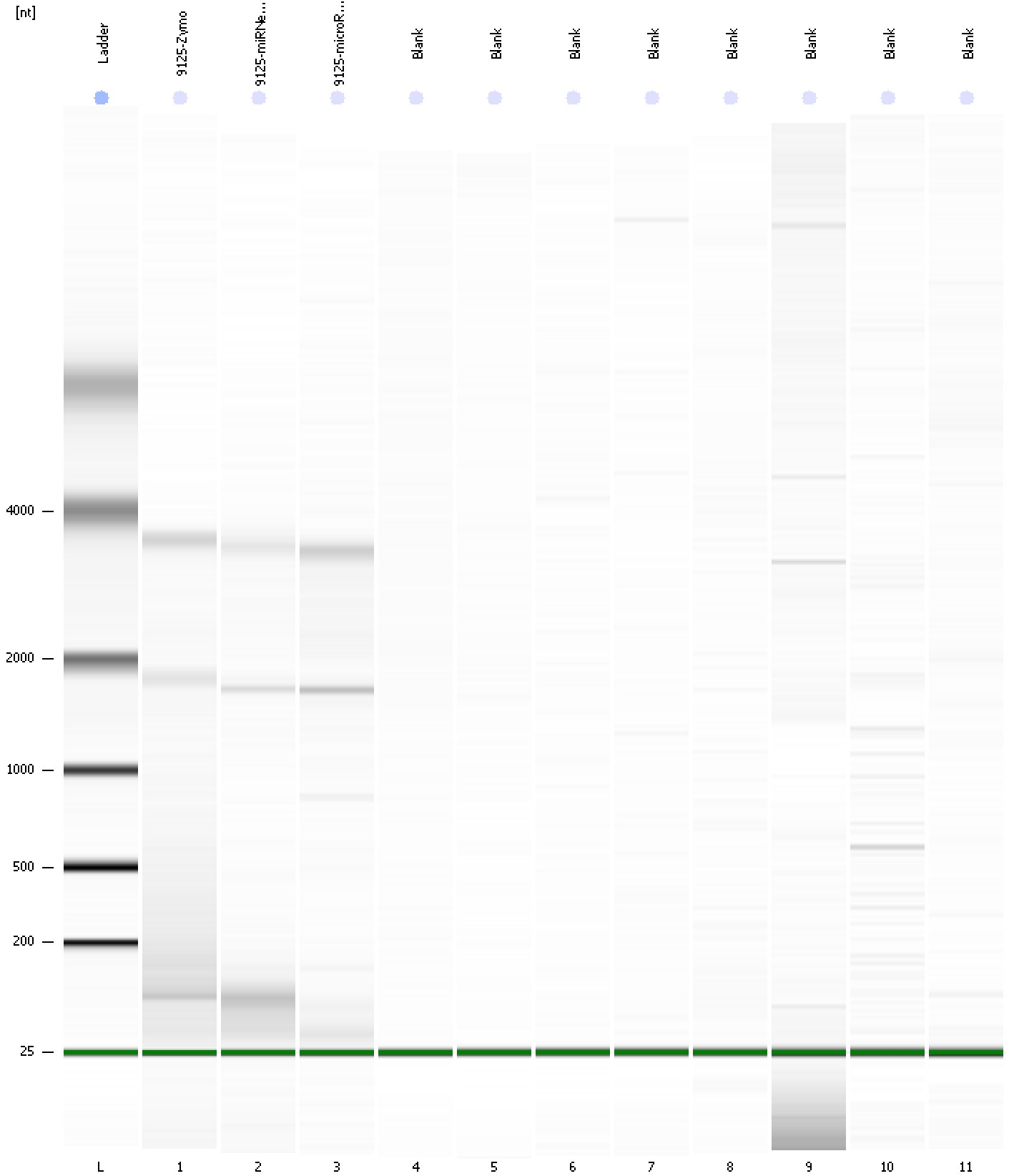
Fragment table for sample 11 : Blank

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,949	2,188	0.3	17.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Gel Image

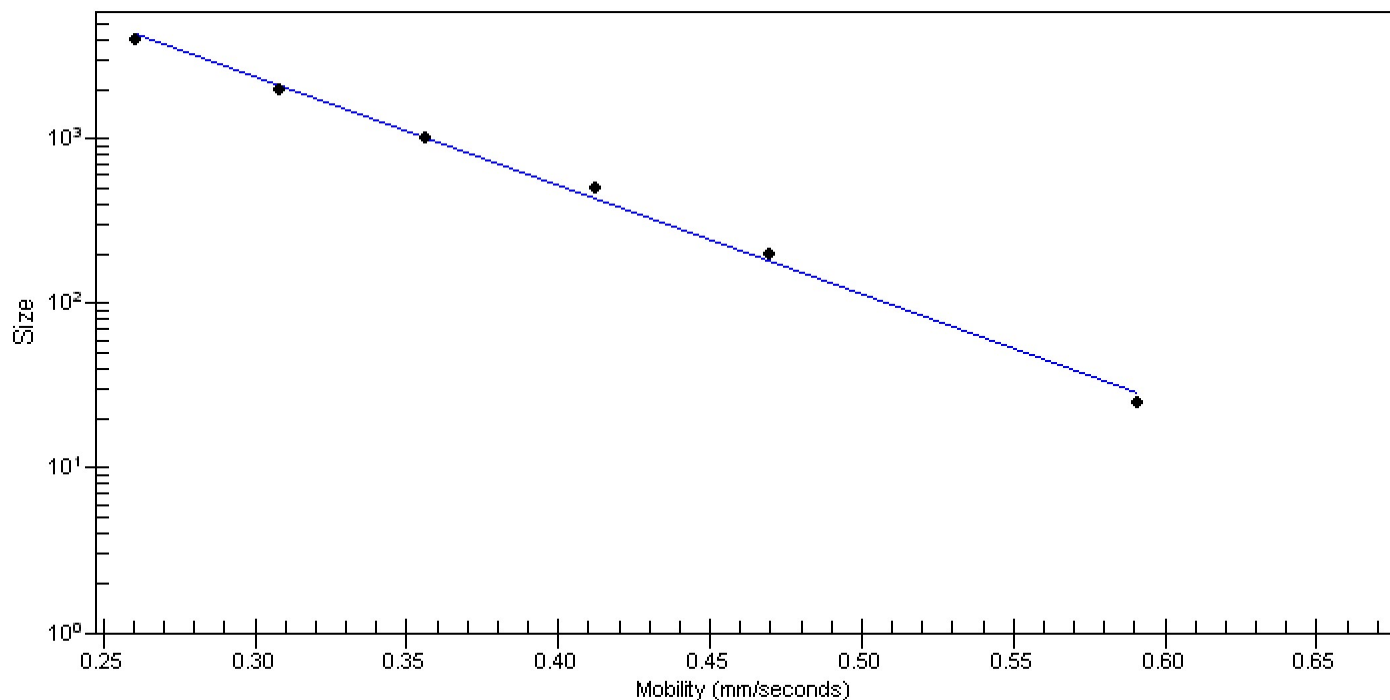


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad

Created: 9/3/2019 2:31:59 PM
Modified: 9/3/2019 2:59:36 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico Created: 9/3/2019 2:31:59 PM
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad Modified: 9/3/2019 2:59:36 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		9/3/2019 2:54:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-03\2019-09-03_001.xad)		Instrument	Run		9/3/2019 2:32:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/3/2019 2:32:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/3/2019 2:32:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/3/2019 2:32:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/3/2019 2:32:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/3/2019 2:32:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/3/2019 2:32:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1