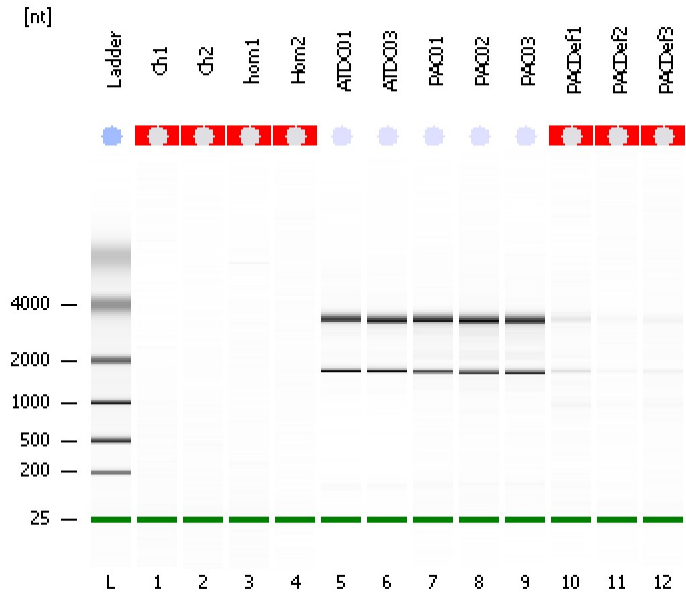


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

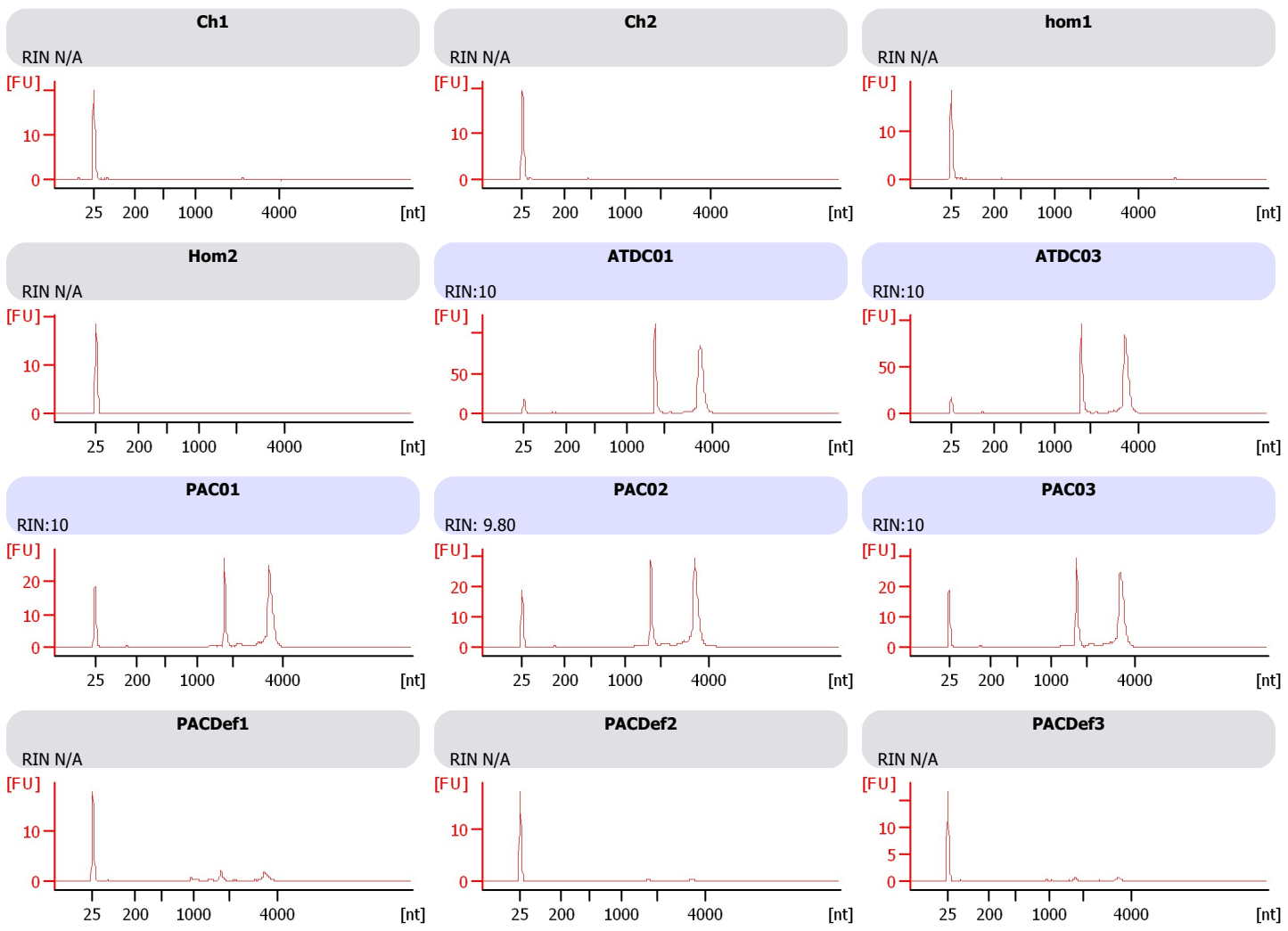
Electrophoresis File Run Summary



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 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:



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Ch1		✓	RIN N/A	
Ch2		✓	RIN N/A	
hom1		✓	RIN N/A	
Hom2		✓	RIN N/A	
ATDC01		✓	RIN:10	
ATDC03		✓	RIN:10	
PAC01		✓	RIN:10	
PAC02		✓	RIN: 9.80	
PAC03		✓	RIN:10	
PACDef1		✓	RIN N/A	
PACDef2		✓	RIN N/A	
PACDef3		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 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

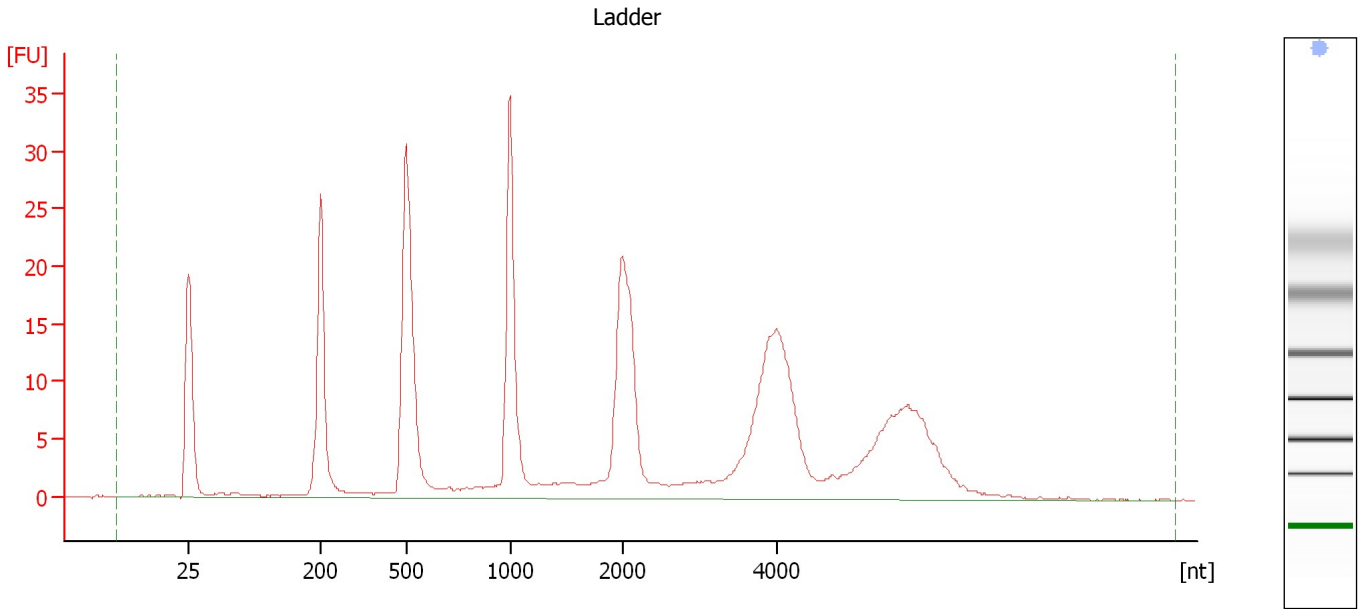
Ladder

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\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary



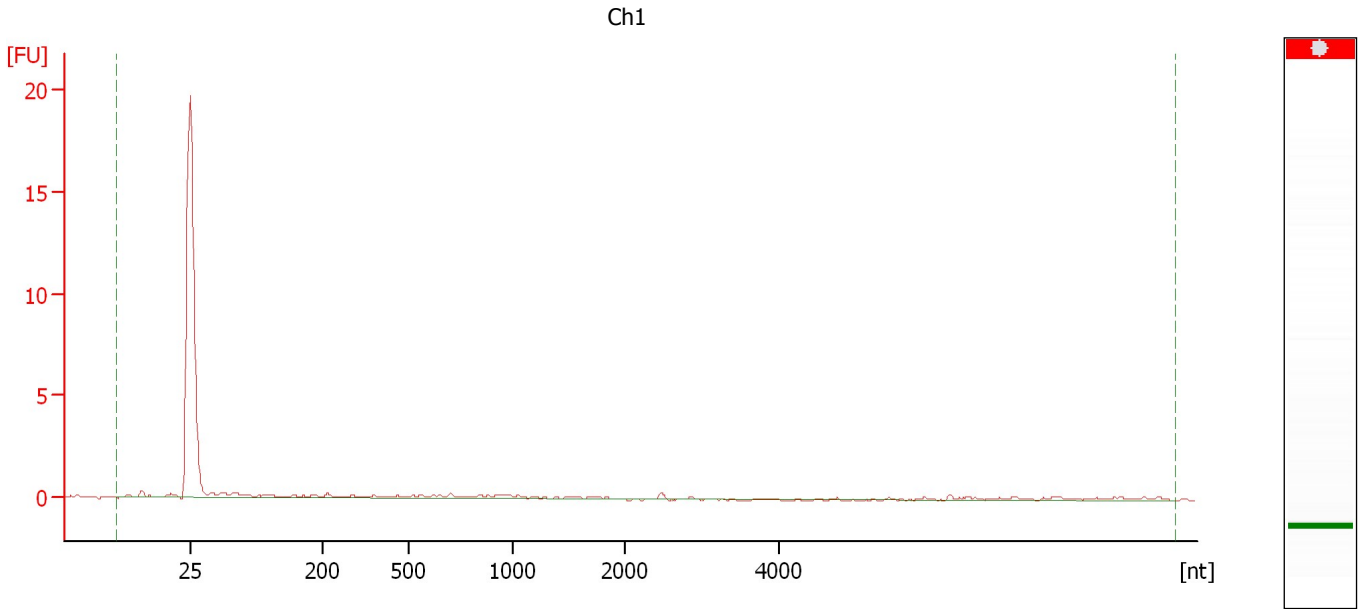
Overall Results for Ladder

RNA Area:	332.0	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



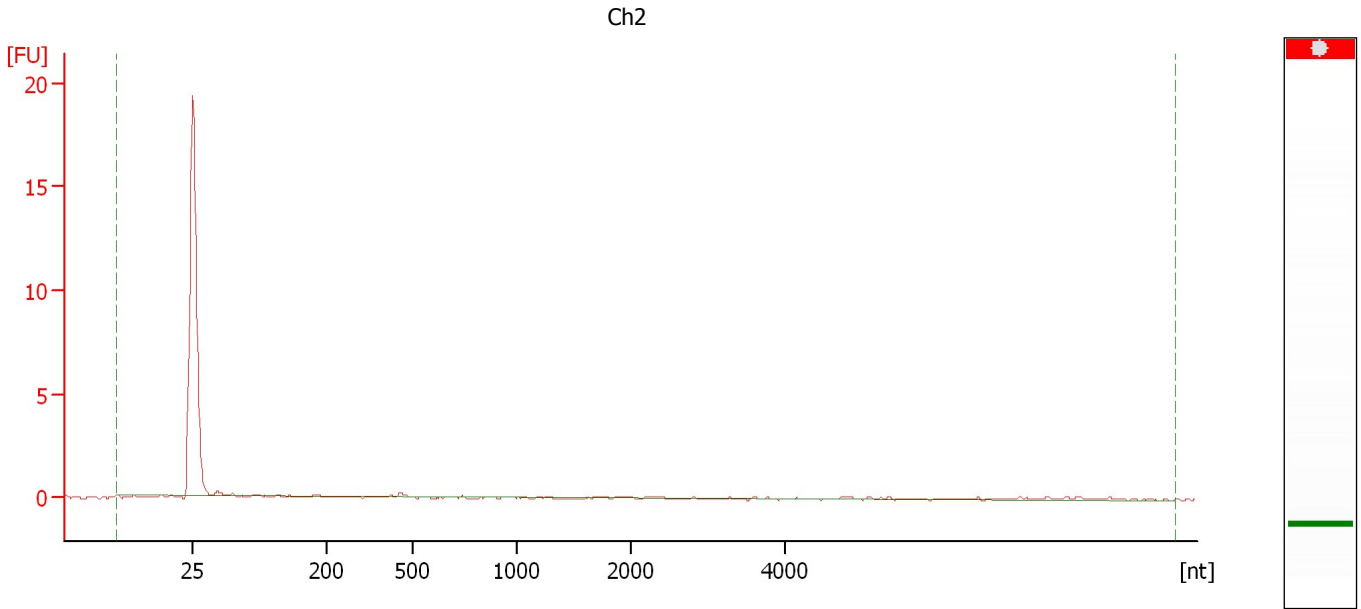
Overall Results for sample 1 : Ch1

RNA Area:	7.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 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\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



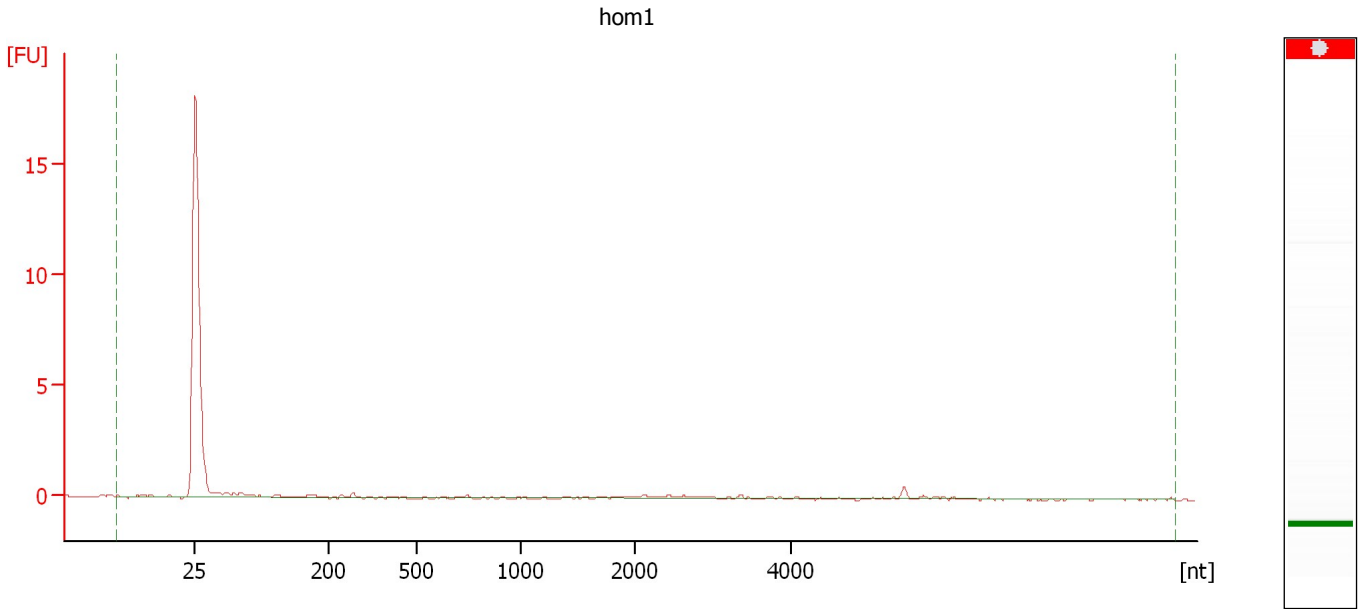
Overall Results for sample 2 : Ch2

RNA Area:	2.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 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\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



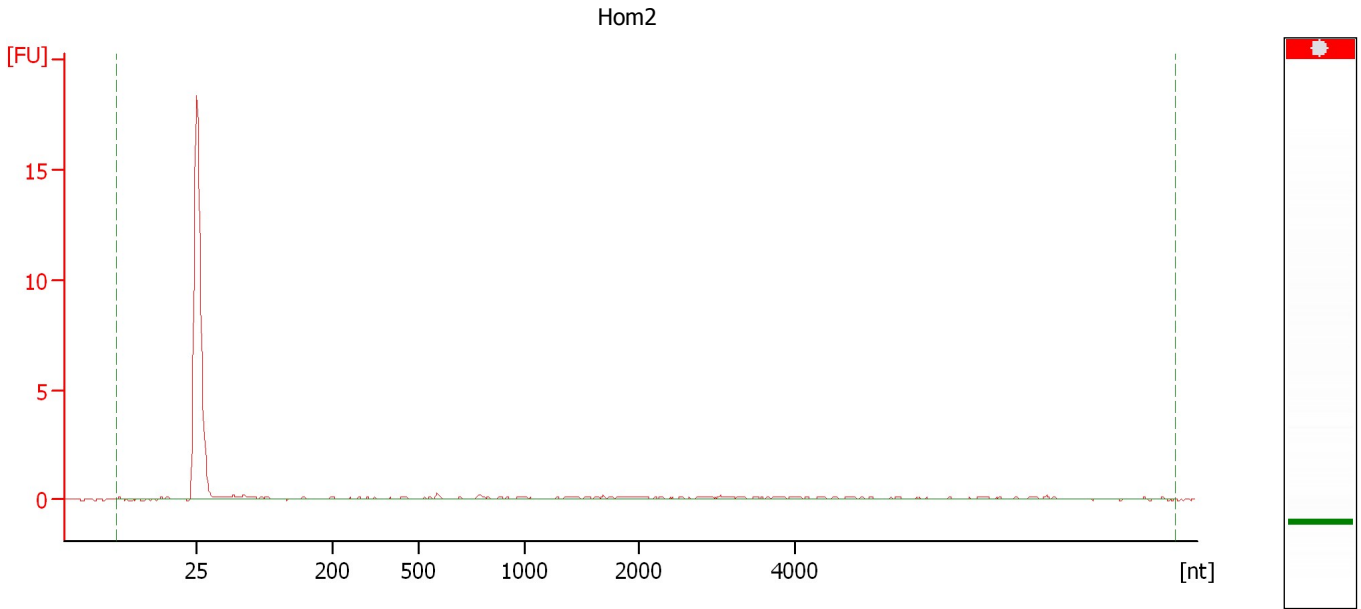
Overall Results for sample 3 : hom1

RNA Area:	4.1	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\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



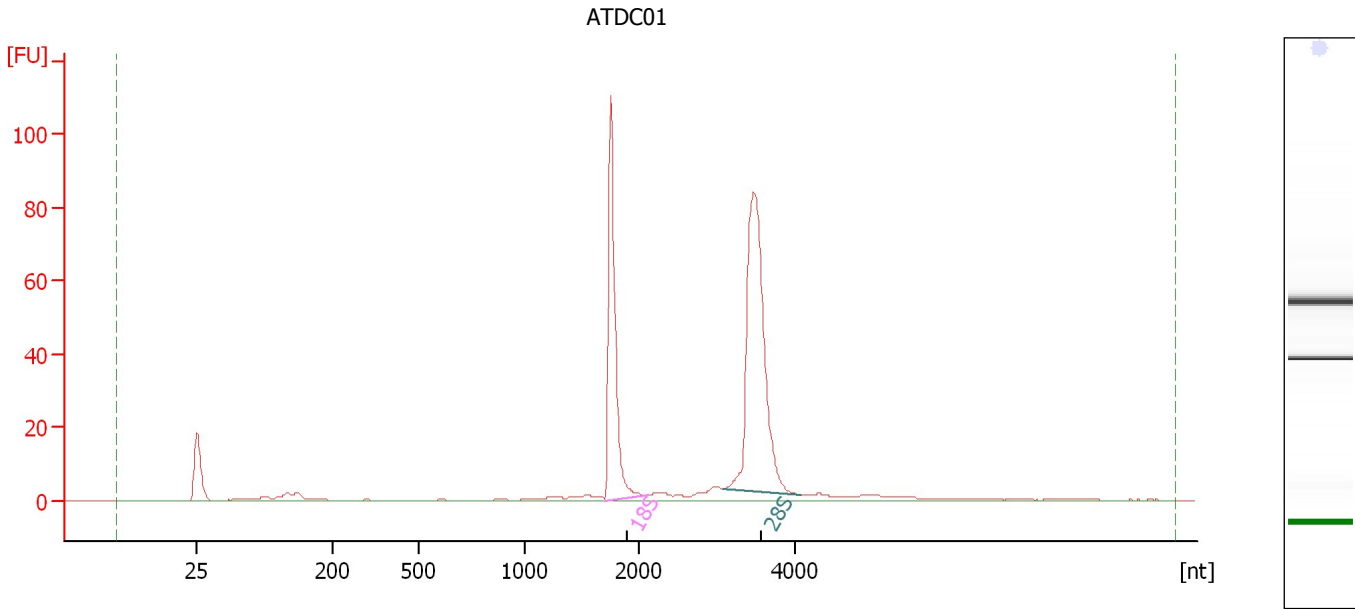
Overall Results for sample 4 : Hom2

RNA Area:	6.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 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\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : ATDC01

RNA Area: 329.2 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 149 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN:10

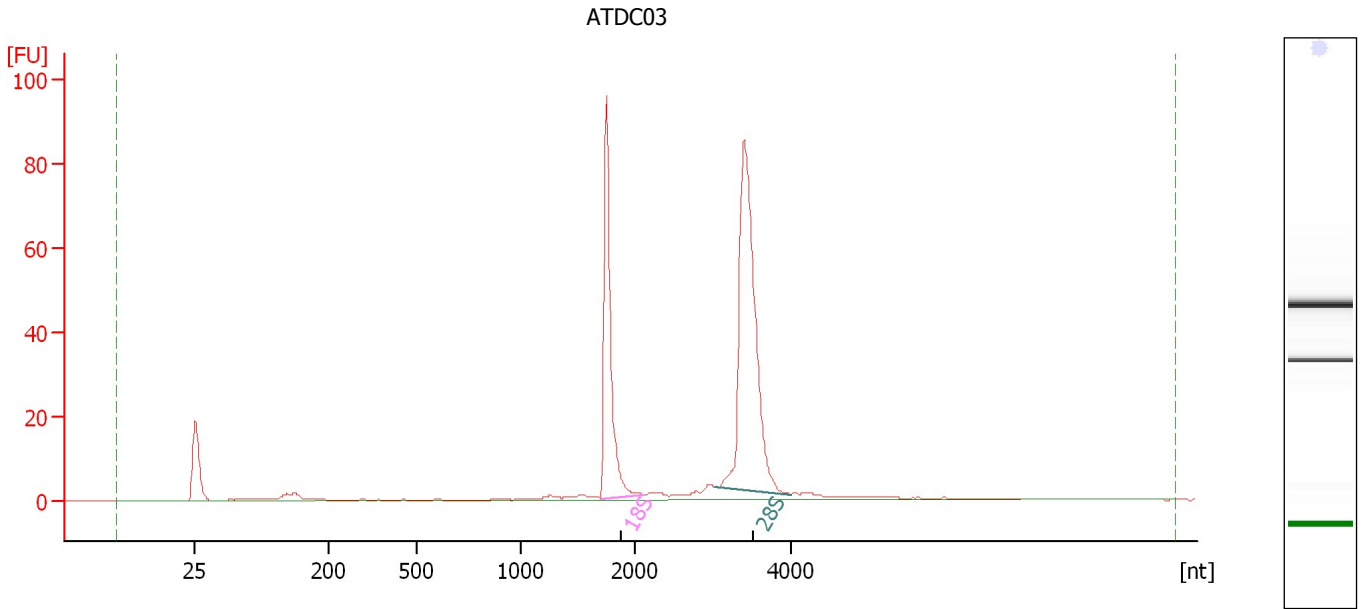
Fragment table for sample 5 : ATDC01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,708	2,135	92.8	28.2
28S	3,076	4,073	153.5	46.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : ATDC03

RNA Area:	294.4	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	133 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:10

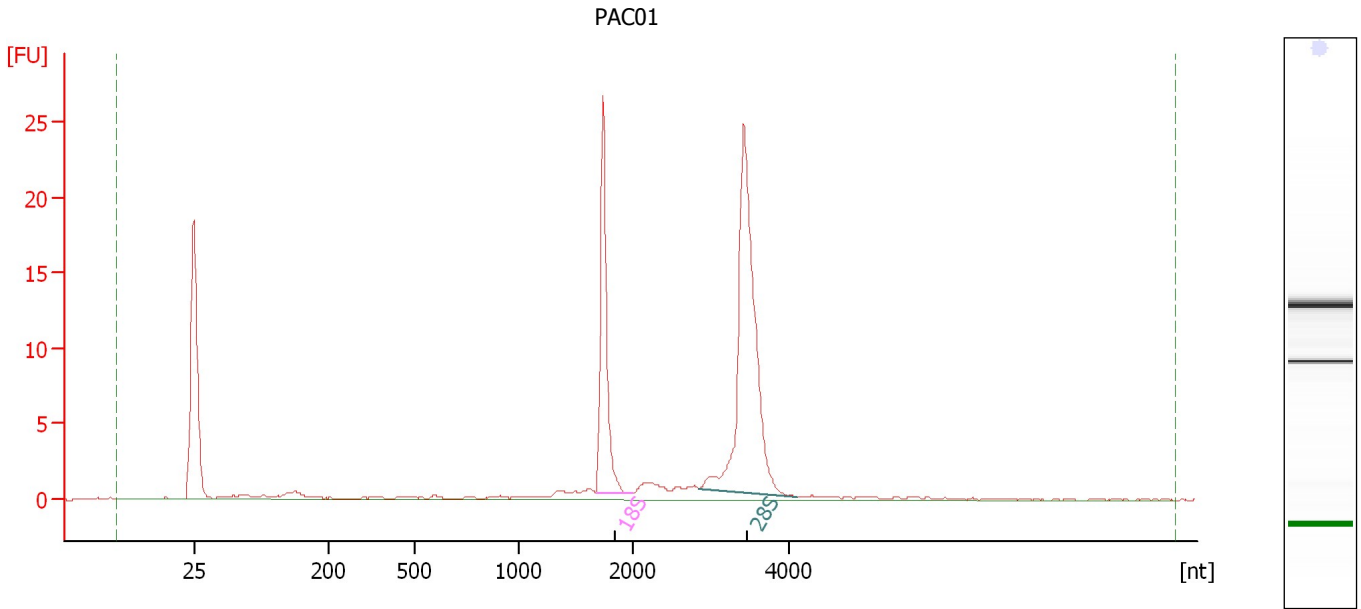
Fragment table for sample 6 : ATDC03

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	2,118	83.3	28.3
28S	3,037	3,996	141.6	48.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : PAC01

RNA Area: 91.4 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 41 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN:10

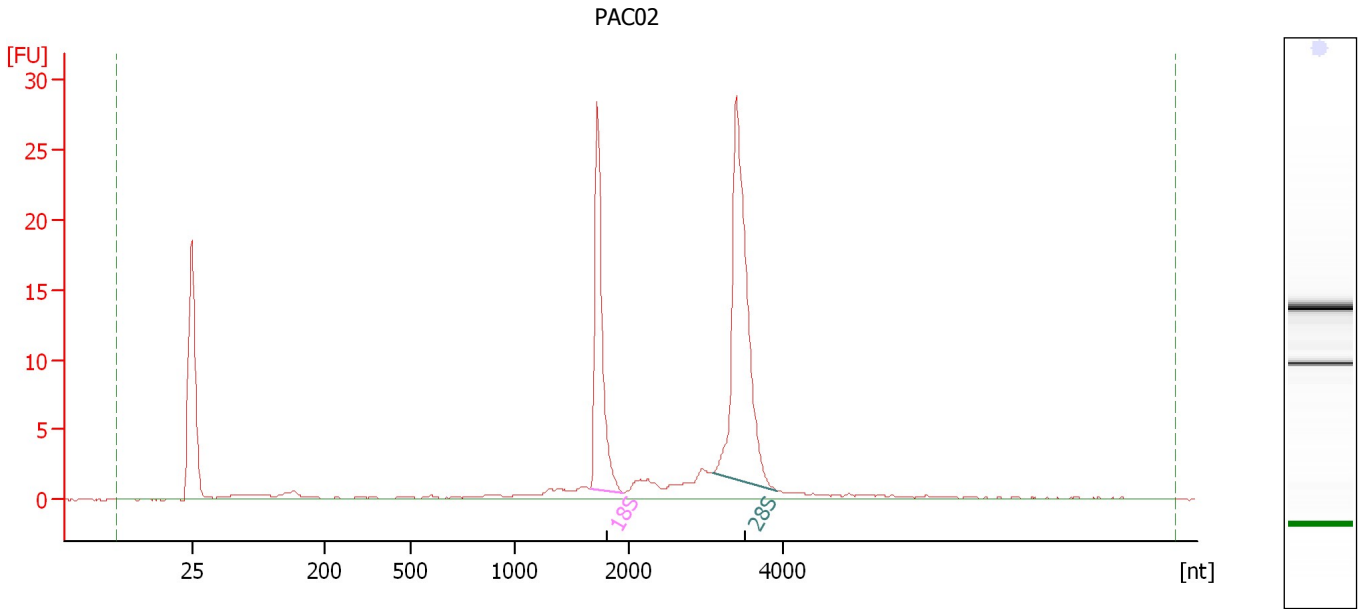
Fragment table for sample 7 : PAC01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,684	2,007	21.0	23.0
28S	2,859	4,109	43.0	47.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : PAC02

RNA Area:	110.2	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	50 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.80

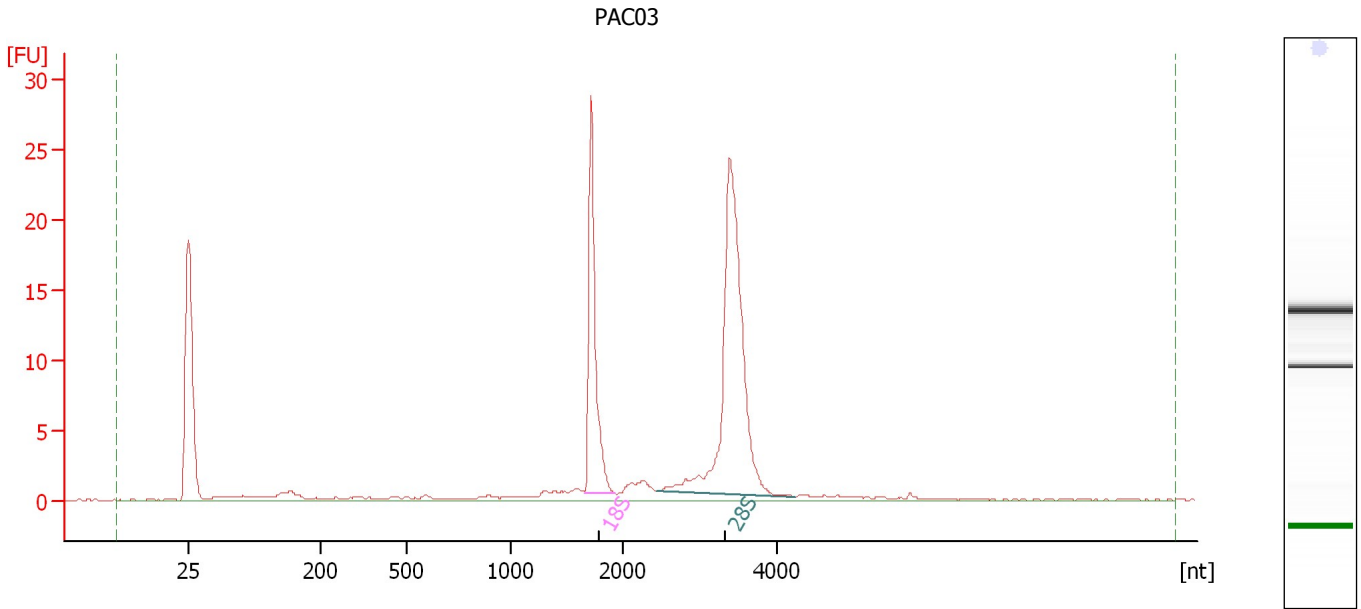
Fragment table for sample 8 : PAC02

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	1,955	24.6	22.3
28S	3,094	3,922	44.4	40.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : PAC03

RNA Area:	105.7	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	48 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN:10

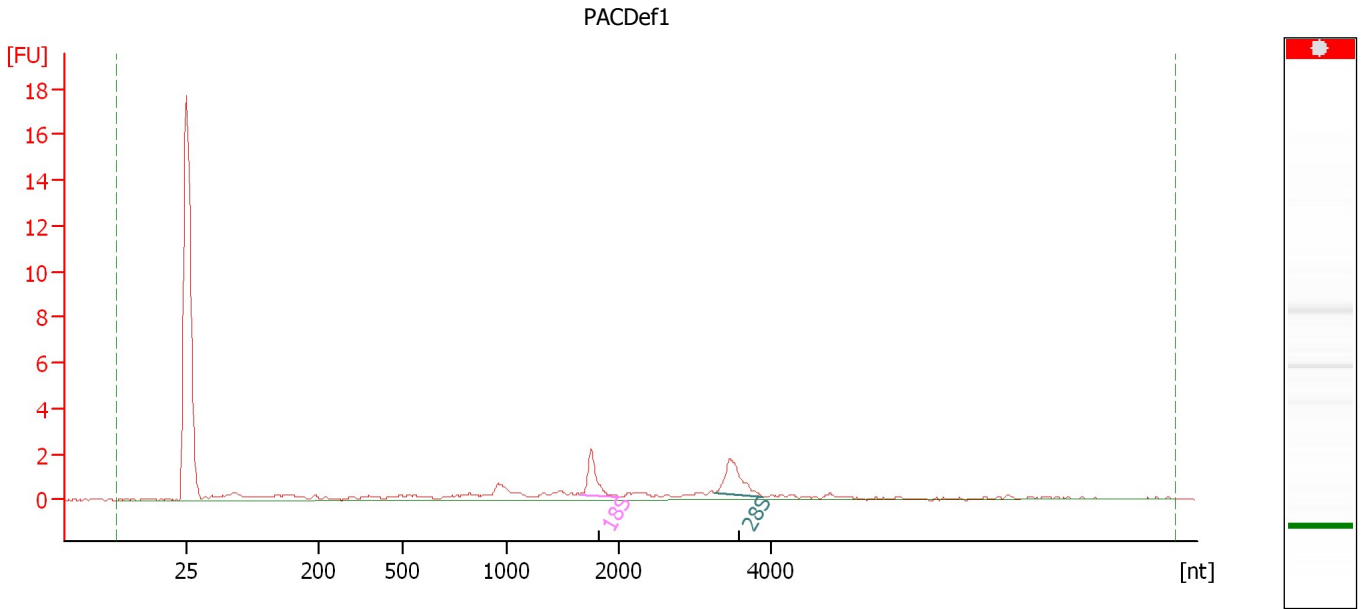
Fragment table for sample 9 : PAC03

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,933	24.5	23.2
28S	2,458	4,249	50.5	47.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : PACDef1

RNA Area: 20.9 RNA Integrity Number (RIN): N/A (B.02.08)
RNA Concentration: 9 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN N/A

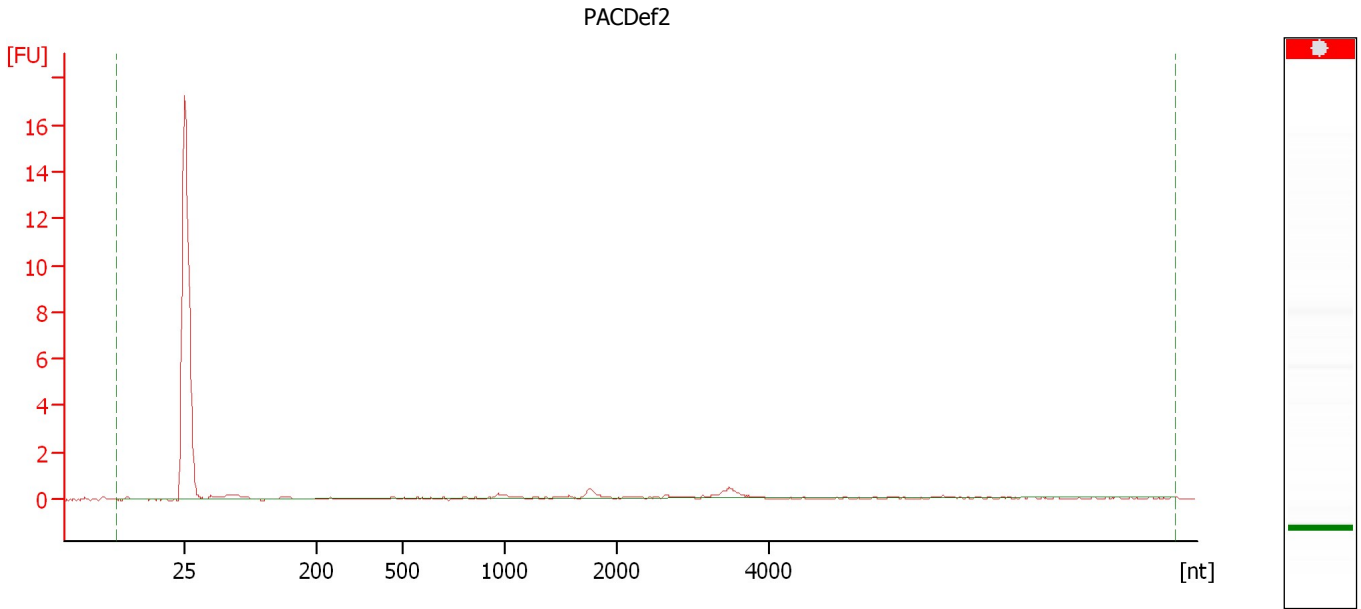
Fragment table for sample 10 : PACDef1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	2,010	2.2	10.5
28S	3,252	3,880	2.8	13.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



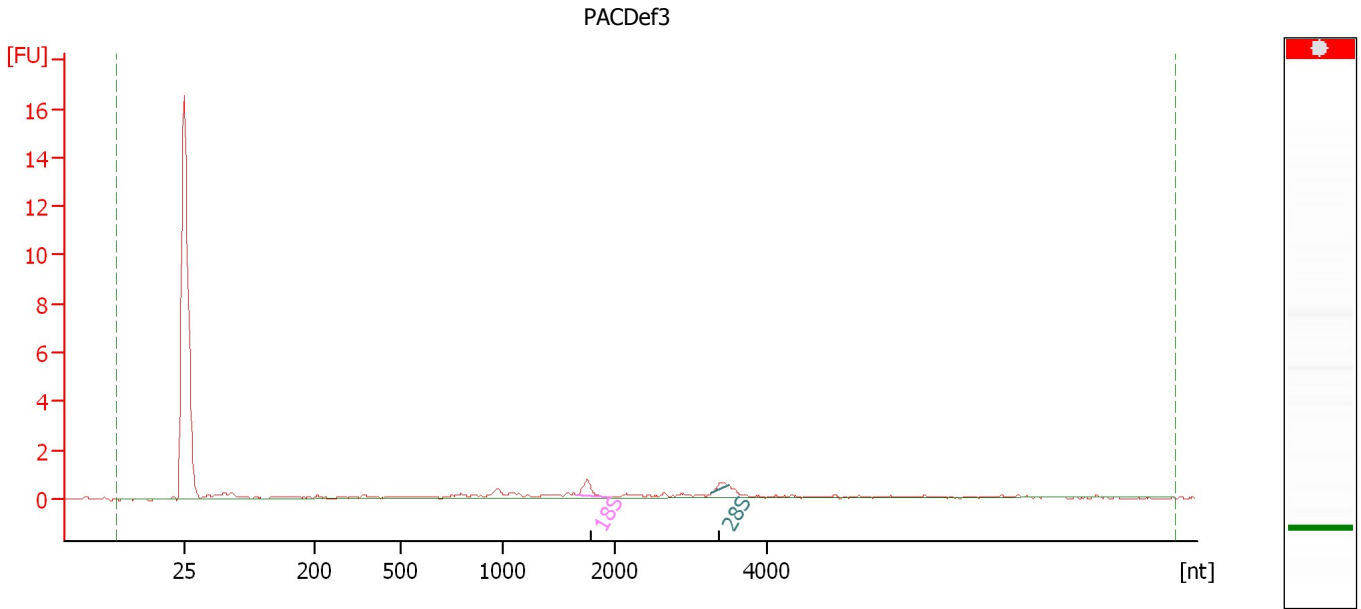
Overall Results for sample 11 : PACDef2

RNA Area:	5.2	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\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
 Modified: 7/29/2019 11:57:37 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : PACDef3

RNA Area:	10.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN N/A

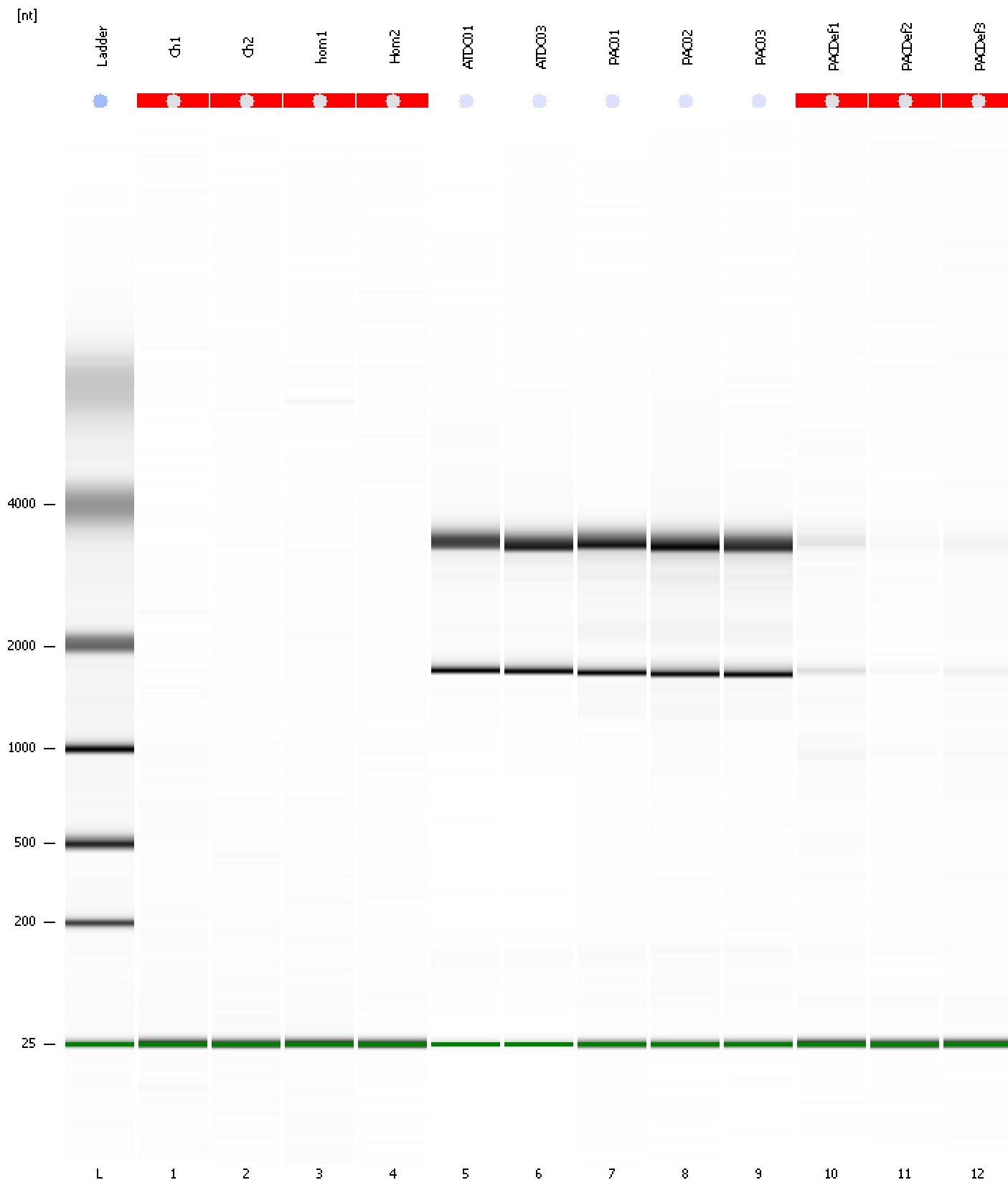
Fragment table for sample 12 : PACDef3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,669	1,938	0.7	6.9
28S	3,268	3,506	0.3	2.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
Modified: 7/29/2019 11:57:37 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad

Created: 7/29/2019 11:33:50 AM
 Modified: 7/29/2019 11:57:37 AM

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		7/29/2019 11:57:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-07-29\2019-07-29_001.xad)		Instrument	Run		7/29/2019 11:33:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/29/2019 11:33:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/29/2019 11:33:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/29/2019 11:33:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/29/2019 11:33:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/29/2019 11:33:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/29/2019 11:33:56 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1