

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31\_001.xad

Created: 7/31/2019 10:41:25 AM  
Modified: 7/31/2019 10:58:36 AM

**Electrophoresis File Run Summary**

Instrument Information:

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

Assay Information:

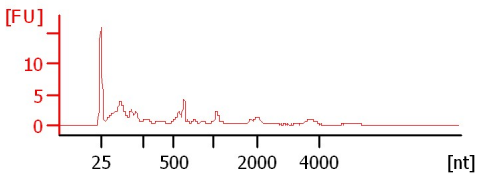
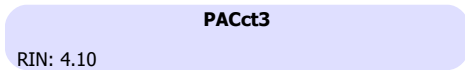
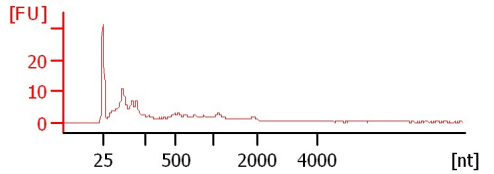
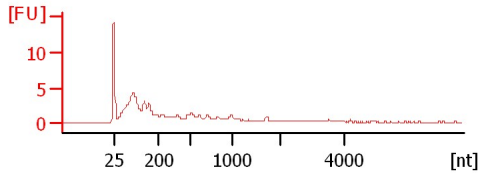
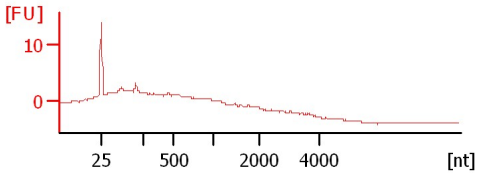
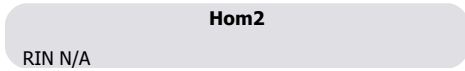
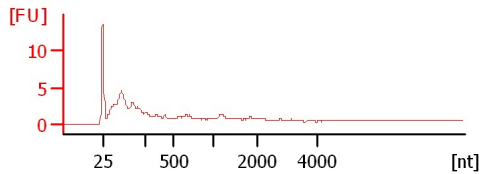
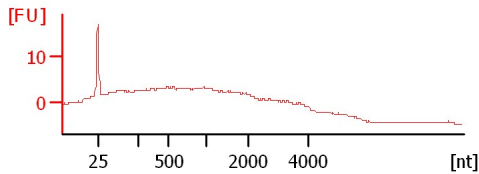
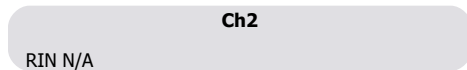
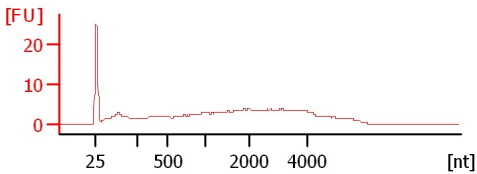
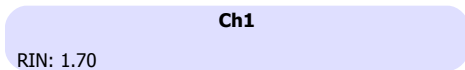
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

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:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
Ch1		✓	RIN: 1.70	
Ch2		✓	RIN N/A	
Hom1		✓	RIN: 2.50	
Hom2		✓	RIN N/A	
PACct1		✓	RIN: 2.50	
PACct2		✓	RIN: 2.70	
PACct3		✓	RIN: 4.10	
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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## 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/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ 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

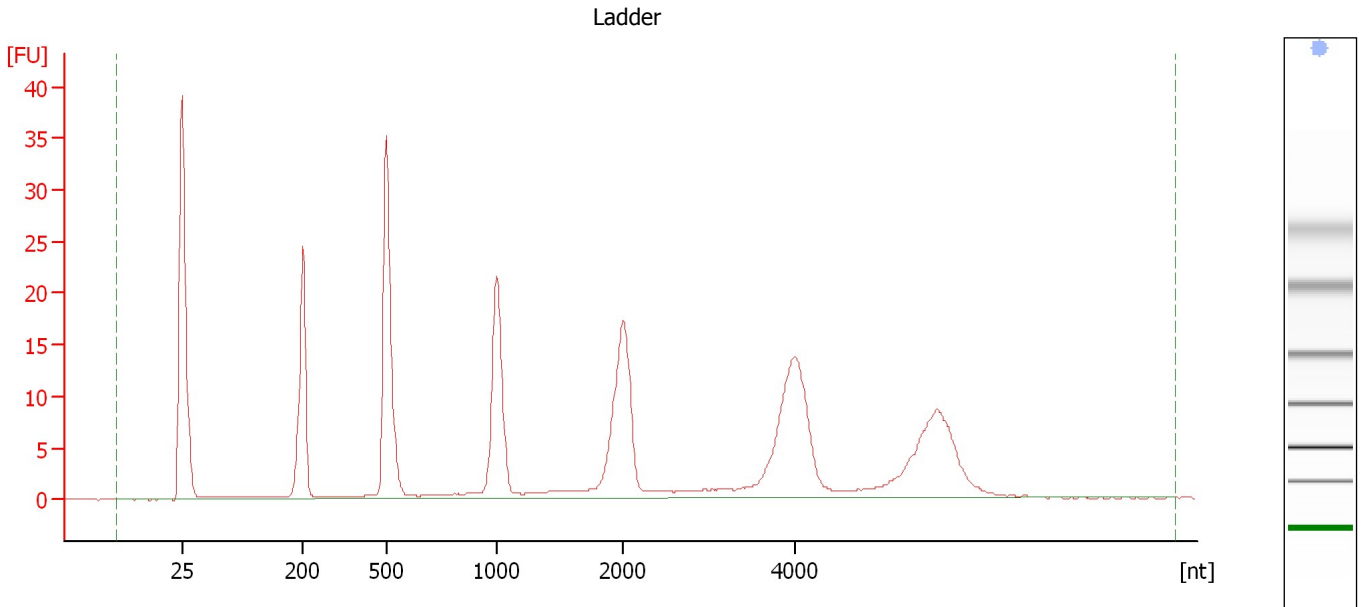
### Ladder

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

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**Electropherogram Summary**



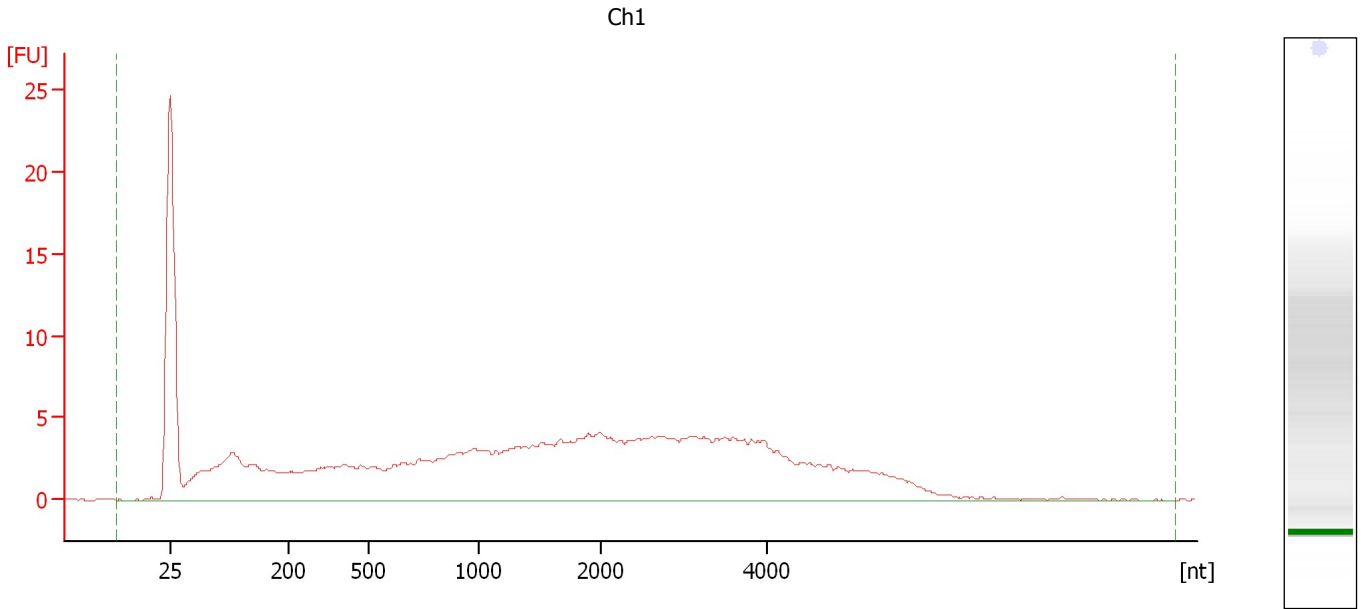
**Overall Results for Ladder**

RNA Area:	254.5	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Modified: 7/31/2019 10:58:36 AM

**Electropherogram Summary Continued ...**



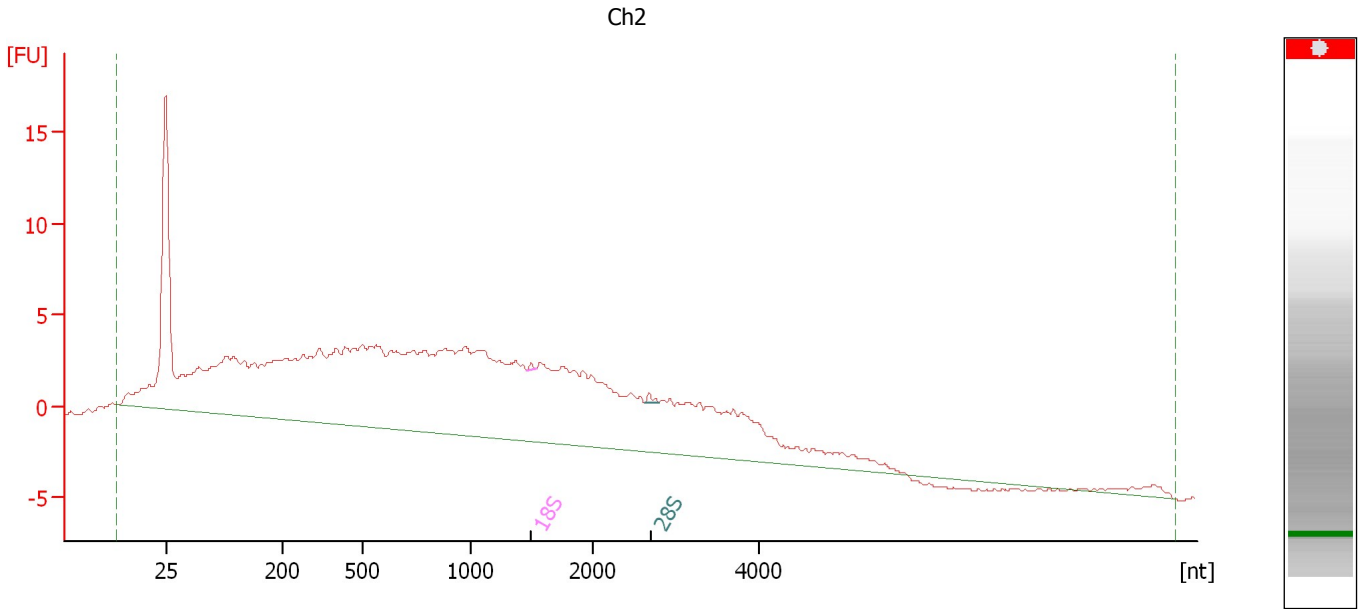
**Overall Results for sample 1 : Ch1**

RNA Area:	239.6	RNA Integrity Number (RIN):	1.7 (B.02.08)
RNA Concentration:	941 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.70

Assay Class: Eukaryote Total RNA Pico  
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Created: 7/31/2019 10:41:25 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Ch2**

RNA Area:	296.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,166 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN N/A

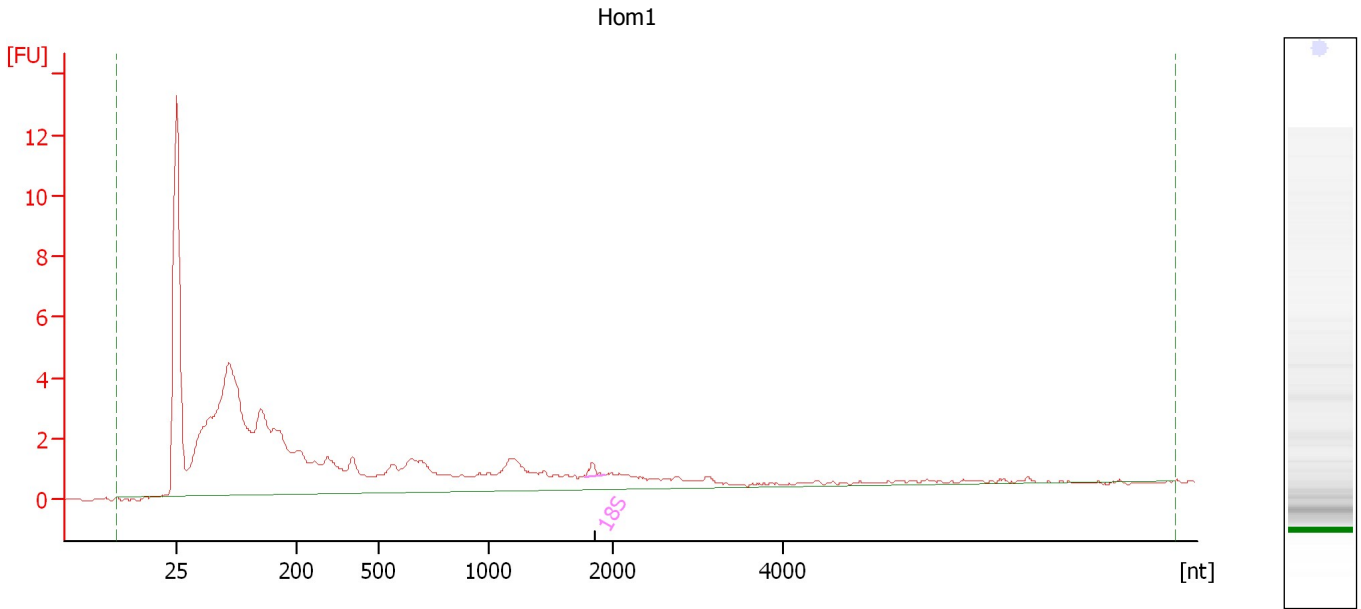
**Fragment table for sample 2 : Ch2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,462	1,533	0.2	0.1
28S	2,630	2,798	0.4	0.1

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Created: 7/31/2019 10:41:25 AM  
Modified: 7/31/2019 10:58:36 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Hom1**

RNA Area:	88.6	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	348 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

**Fragment table for sample 3 : Hom1**

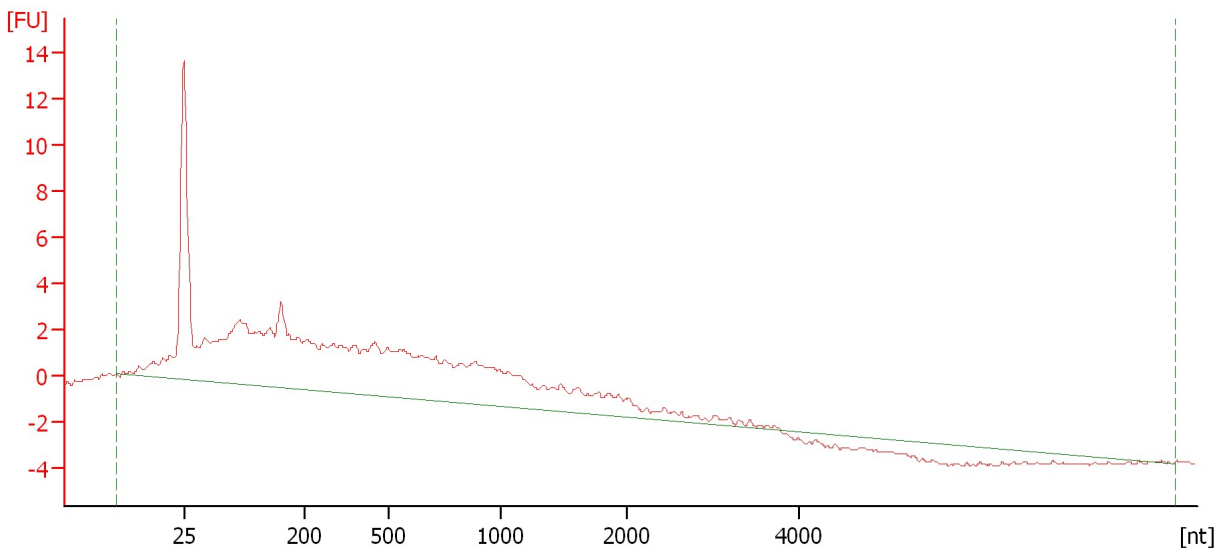
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,773	1,936	0.4	0.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31\_001.xad

Created: 7/31/2019 10:41:25 AM  
Modified: 7/31/2019 10:58:36 AM

**Electropherogram Summary Continued ...**

Hom2



**Overall Results for sample 4 : Hom2**

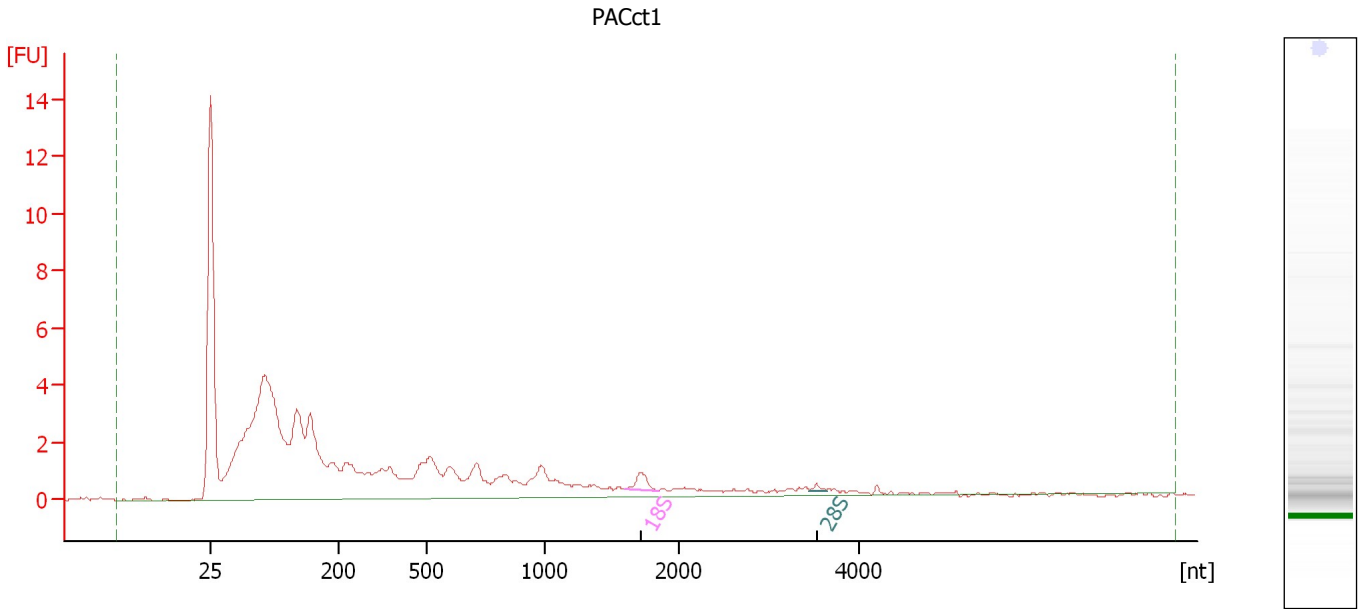
RNA Area:	122.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	480 µg/µl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31\_001.xad

Created: 7/31/2019 10:41:25 AM  
Modified: 7/31/2019 10:58:36 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : PACct1**

RNA Area:	80.9	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	318 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Label:	RIN: 2.50

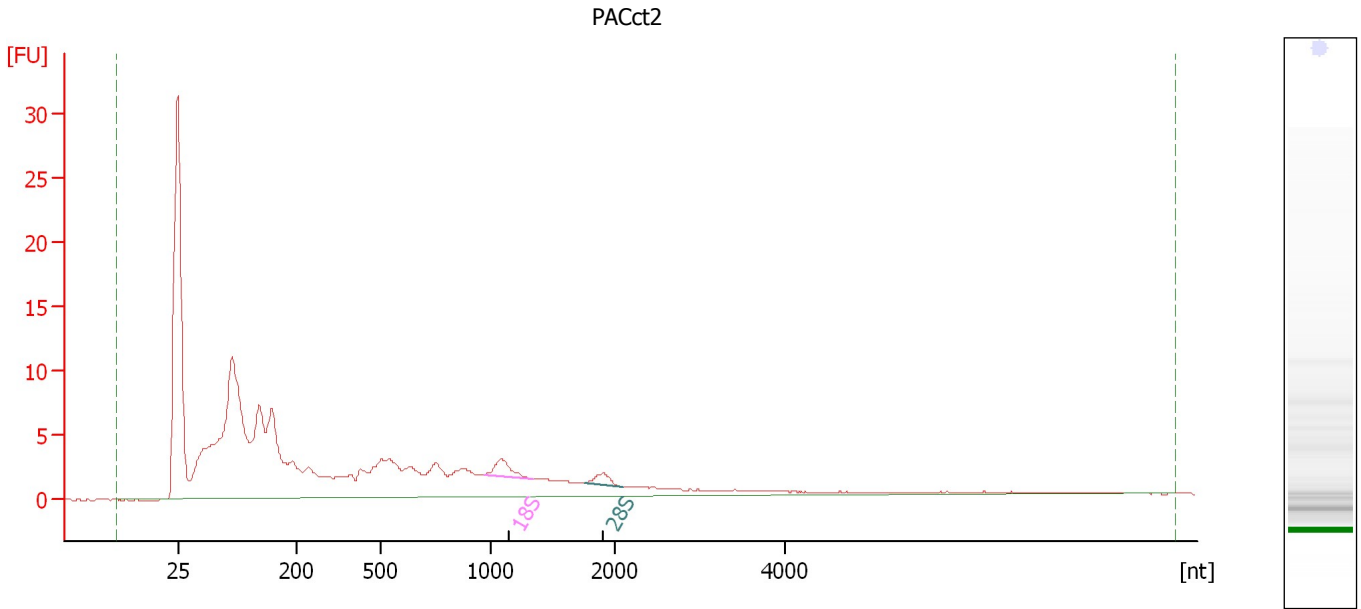
**Fragment table for sample 5 : PACct1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,602	1,850	0.8	1.0
28S	3,442	3,630	0.1	0.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-31\2019-07-31\_001.xad

Created: 7/31/2019 10:41:25 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : PACct2**

RNA Area: 191.3                      RNA Integrity Number (RIN): 2.7 (B.02.08)  
RNA Concentration: 752 µg/µl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.6                      Result Flagging Label: RIN: 2.70

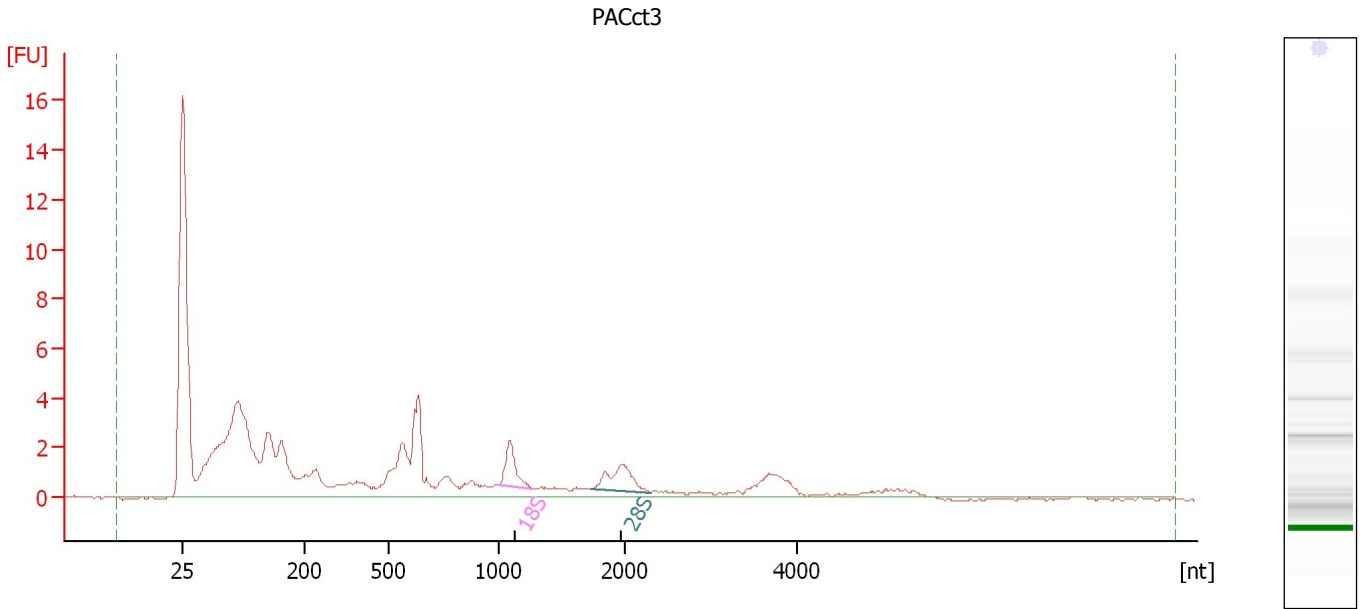
**Fragment table for sample 6 : PACct2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	978	1,338	2.9	1.5
28S	1,749	2,084	1.8	0.9

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : PACct3**

RNA Area: 81.7                      RNA Integrity Number (RIN): 4.1 (B.02.08)  
RNA Concentration: 321 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2                      Result Flagging Label: RIN: 4.10

**Fragment table for sample 7 : PACct3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	996	1,265	2.7	3.3
28S	1,730	2,287	3.2	3.9

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**Gel Image**

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**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 8)		Instrument	Run		7/31/2019 10:58:35 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\2019-07-31\2019-07-31_001.xad)		Instrument	Run		7/31/2019 10:41:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		7/31/2019 10:41:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/31/2019 10:41:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/31/2019 10:41:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		7/31/2019 10:41:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/31/2019 10:41:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/31/2019 10:41:30 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1