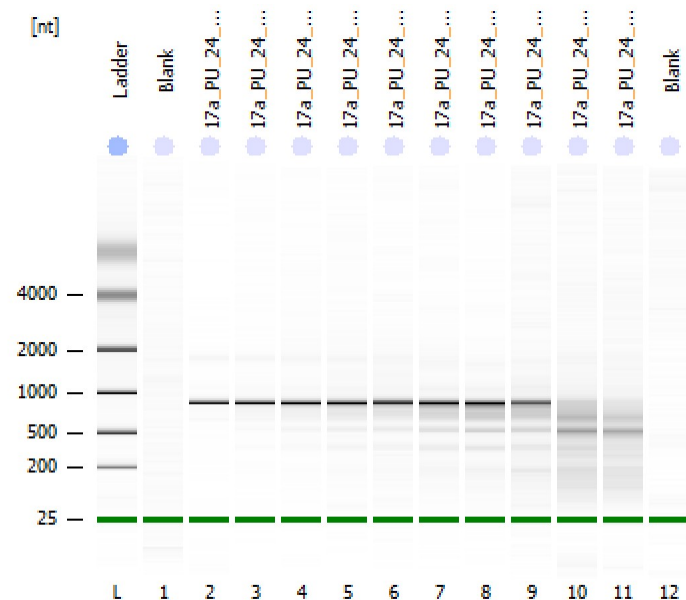


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
Modified: 12/11/2020 10:38:58 AM

**Electrophoresis File Run Summary**Instrument Information:

Instrument Name: DE72901420

Firmware: C.01.069

Serial#: DE72901420

Type: G2939A

Assay Information:

Assay Origin Path: C:\Program Files (x86)\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)

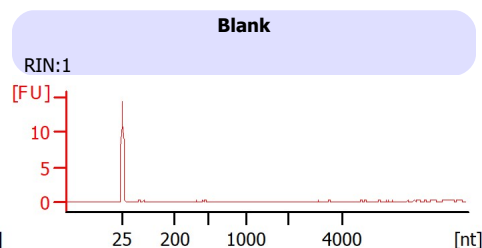
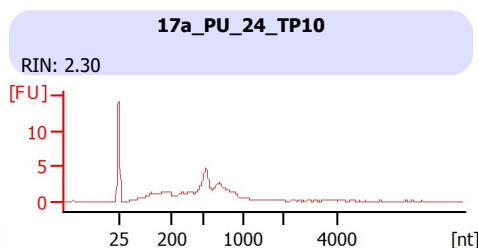
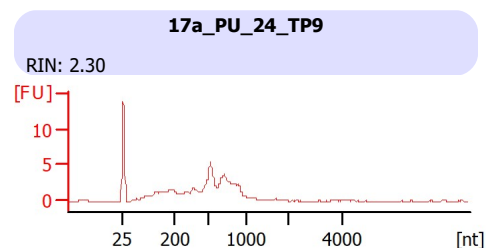
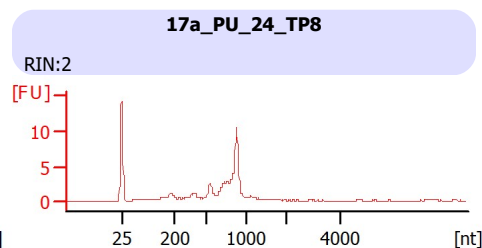
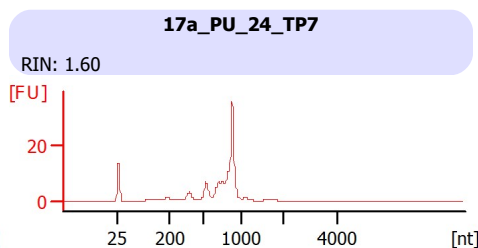
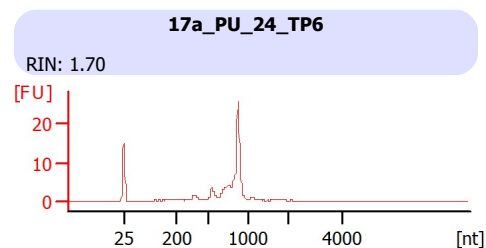
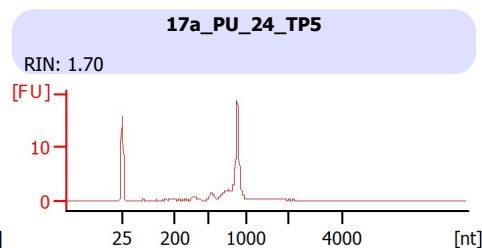
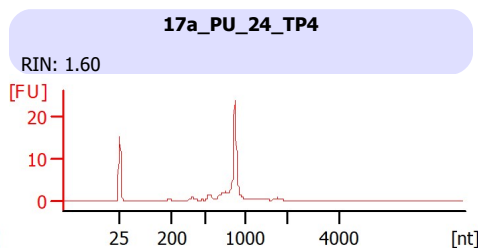
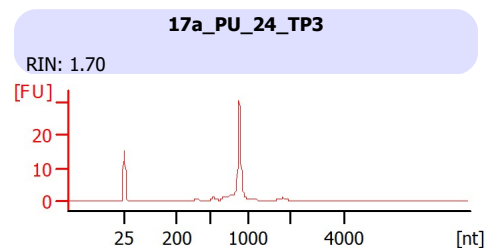
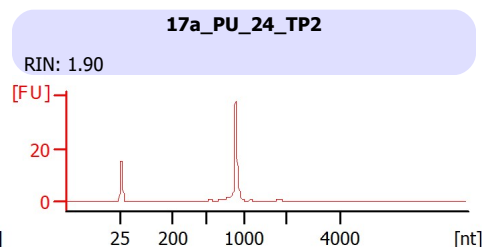
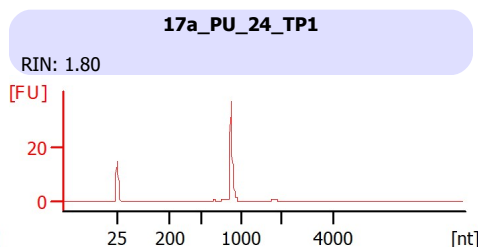
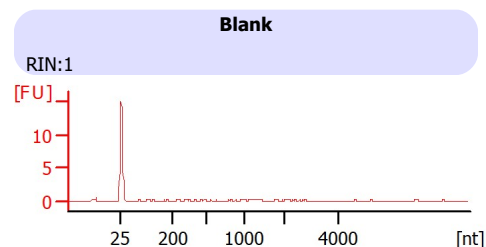
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
Modified: 12/11/2020 10:38:58 AM

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

Sample Name	Sample Comment	Stat Result Label	Result Color
Blank		✓ RIN:1	
17a_PU_24_TP1		✓ RIN: 1.80	
17a_PU_24_TP2		✓ RIN: 1.90	
17a_PU_24_TP3		✓ RIN: 1.70	
17a_PU_24_TP4		✓ RIN: 1.60	
17a_PU_24_TP5		✓ RIN: 1.70	
17a_PU_24_TP6		✓ RIN: 1.70	
17a_PU_24_TP7		✓ RIN: 1.60	
17a_PU_24_TP8		✓ RIN:2	
17a_PU_24_TP9		✓ RIN: 2.30	
17a_PU_24_TP10		✓ RIN: 2.30	
Blank		✓ RIN:1	
Ladder		✓ All Other Samples	

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
Modified: 12/11/2020 10:38:58 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/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

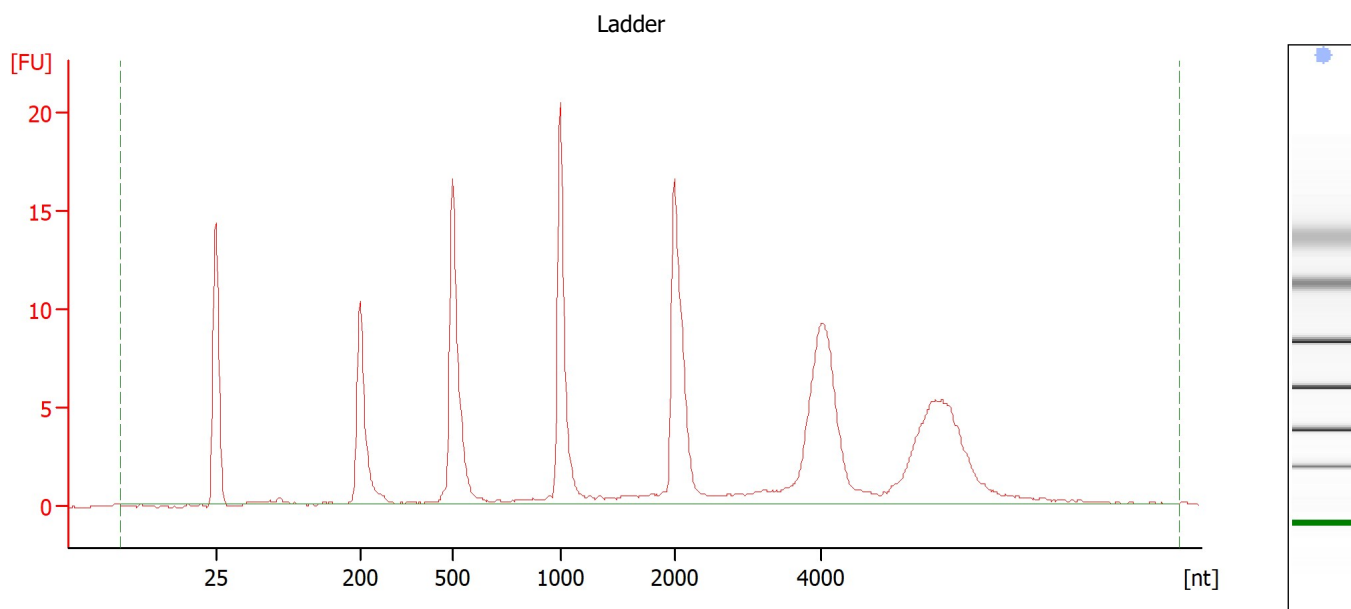
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
Modified: 12/11/2020 10:38:58 AM

### Electropherogram Summary



### Overall Results for Ladder

RNA Area: 148.4

Result Flagging Color:



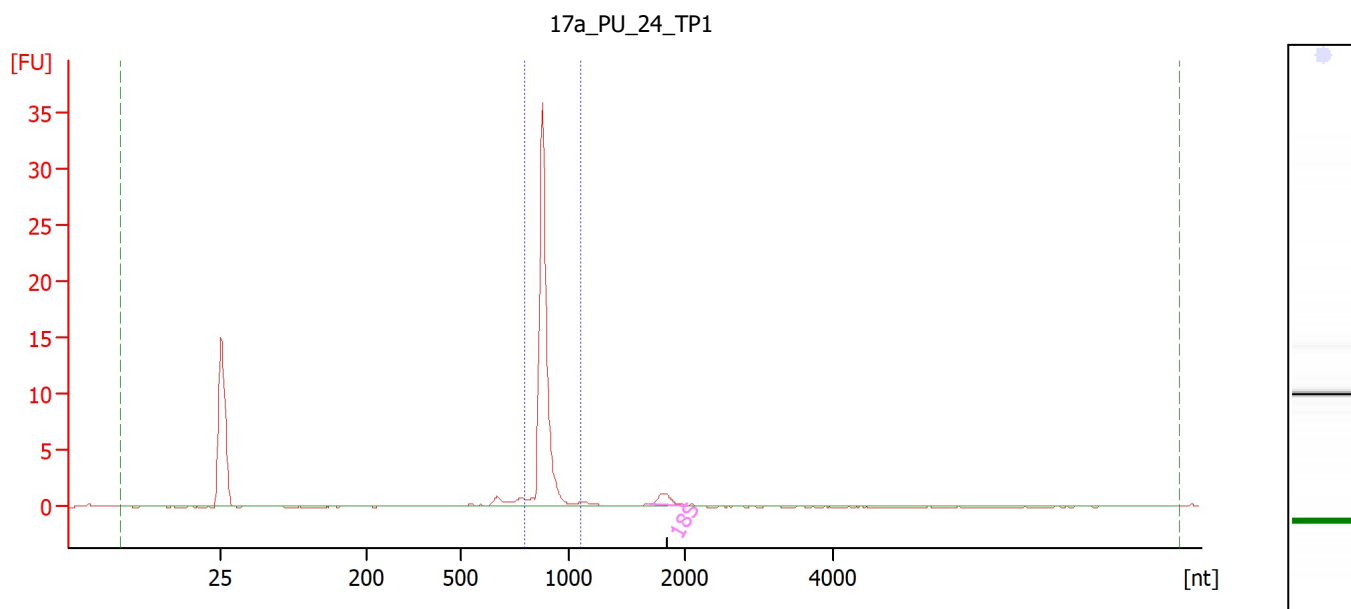
RNA Concentration: 150 ng/μl

Result Flagging Label:

All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
 Modified: 12/11/2020 10:38:58 AM

**Electropherogram Summary Continued ...****Overall Results for sample 2 : 17a PU 24 TP1**

RNA Area:	44.5	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	45 ng/μl	Result Flagging Label:	RIN: 1.80
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	36.6
RNA Integrity Number (RIN):	1.8 (B.02.11, Anomaly Threshold(s) manually adapted)		

**Fragment table for sample 2 : 17a PU 24 TP1**

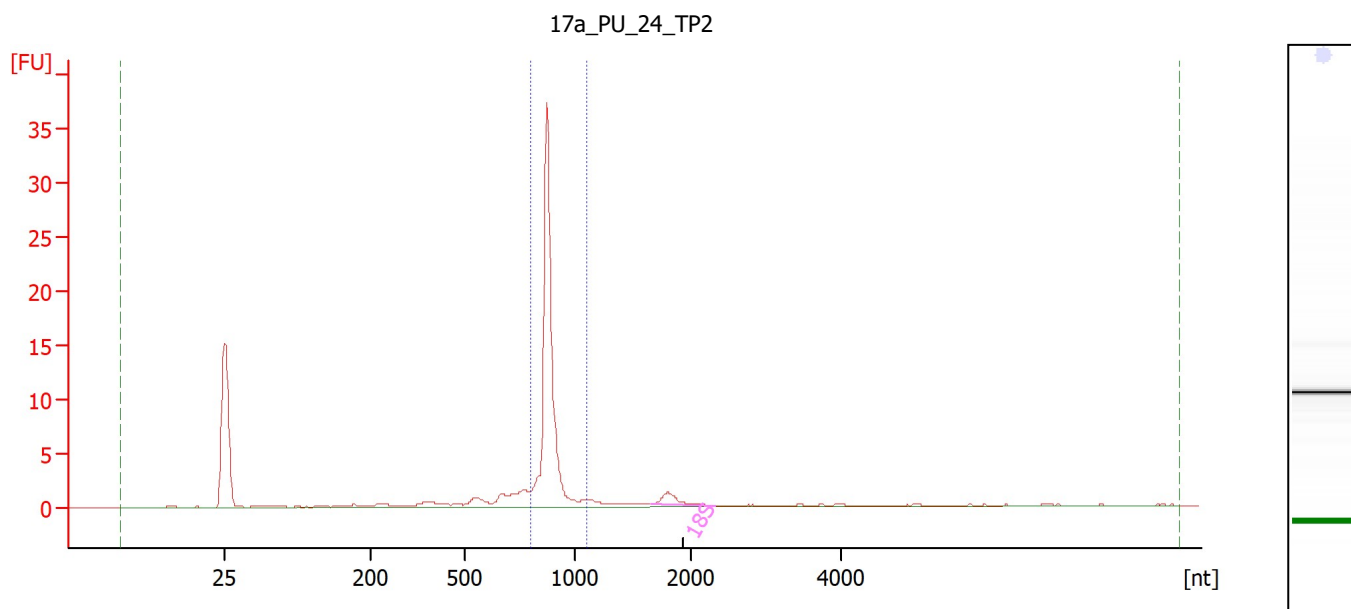
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,690	2,021	1.5	3.4

**Region table for sample 2 : 17a PU 24 TP1**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	36.6	82	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 15px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
 Modified: 12/11/2020 10:38:58 AM

**Electropherogram Summary Continued ...****Overall Results for sample 3 : 17a PU 24 TP2**

RNA Area:	64.2	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	65 ng/μl	Result Flagging Label:	RIN: 1.90
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	43.6
RNA Integrity Number (RIN):	1.9 (B.02.11, Anomaly Threshold(s) manually adapted)		

**Fragment table for sample 3 : 17a PU 24 TP2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,649	2,311	2.3	3.6

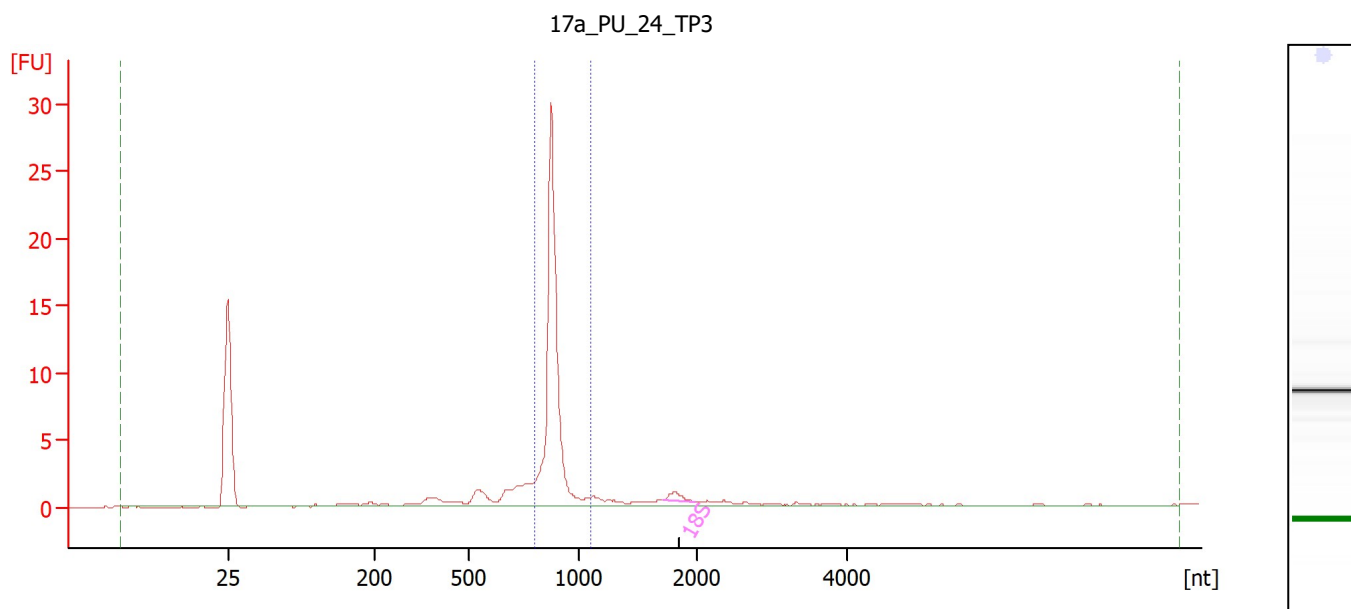
**Region table for sample 3 : 17a PU 24 TP2**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	43.6	68	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 15px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
 Modified: 12/11/2020 10:38:58 AM

### Electropherogram Summary Continued ...



### Overall Results for sample 4 : 17a PU 24 TP3

RNA Area:	59.7	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	60 ng/μl	Result Flagging Label:	RIN: 1.70
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	38.0
RNA Integrity Number (RIN):	1.7 (B.02.11, Anomaly Threshold(s) manually adapted)		

### Fragment table for sample 4 : 17a PU 24 TP3

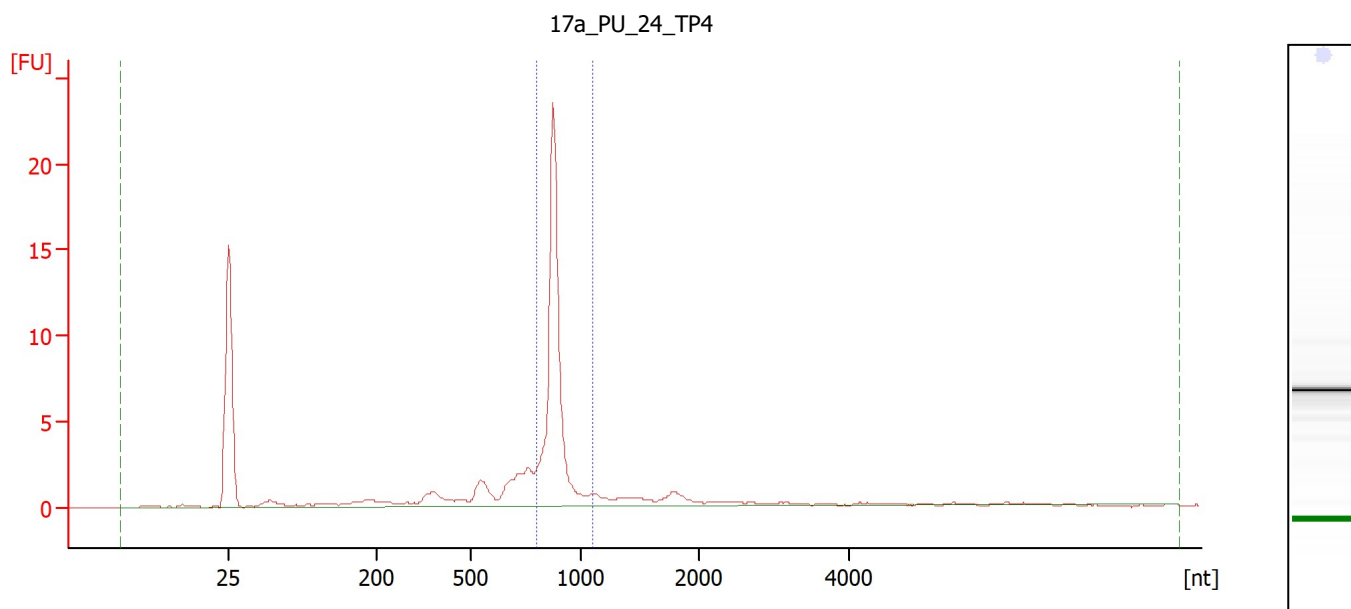
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,709	1,992	1.0	1.6


### Region table for sample 4 : 17a PU 24 TP3

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	38.0	64	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
Modified: 12/11/2020 10:38:58 AM

**Electropherogram Summary Continued ...****Overall Results for sample 5 : 17a PU 24 TP4**

RNA Area:	63.3	Result Flagging Color:	
RNA Concentration:	64 ng/μl	Result Flagging Label:	RIN: 1.60
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	33.1
RNA Integrity Number (RIN):	1.6 (B.02.11, Anomaly Threshold(s) manually adapted)		

**Region table for sample 5 : 17a PU 24 TP4**

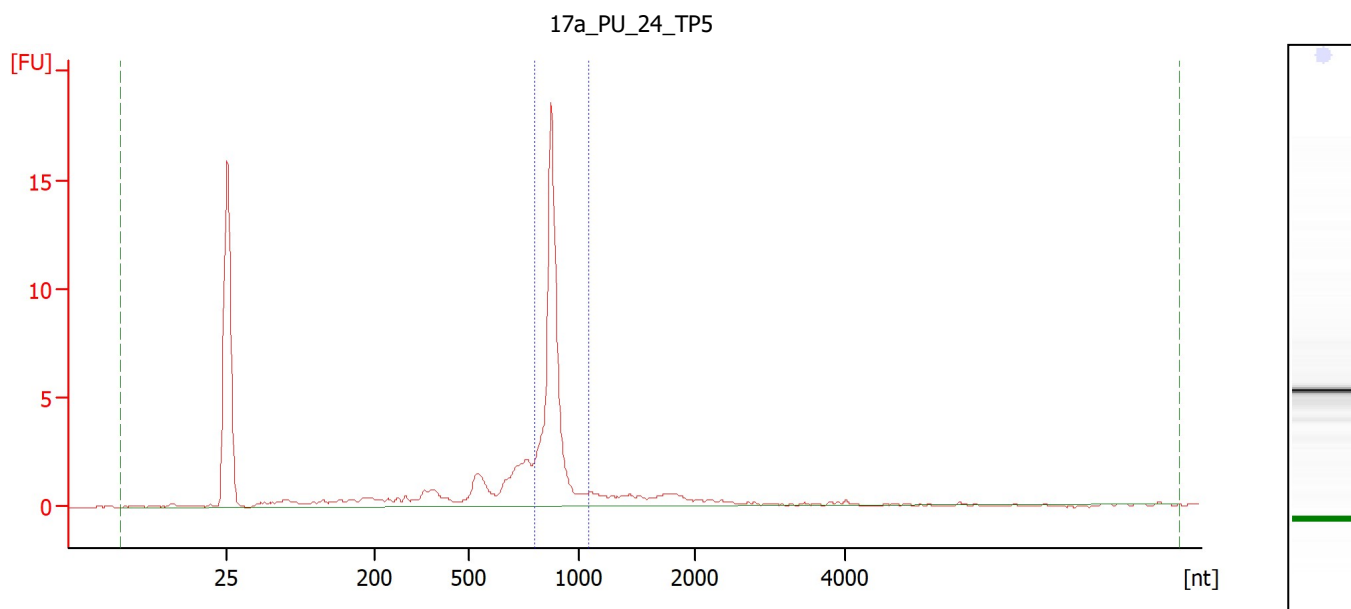
Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	33.1	52	



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
 Modified: 12/11/2020 10:38:58 AM

### Electropherogram Summary Continued ...



### Overall Results for sample 6 : 17a PU 24 TP5

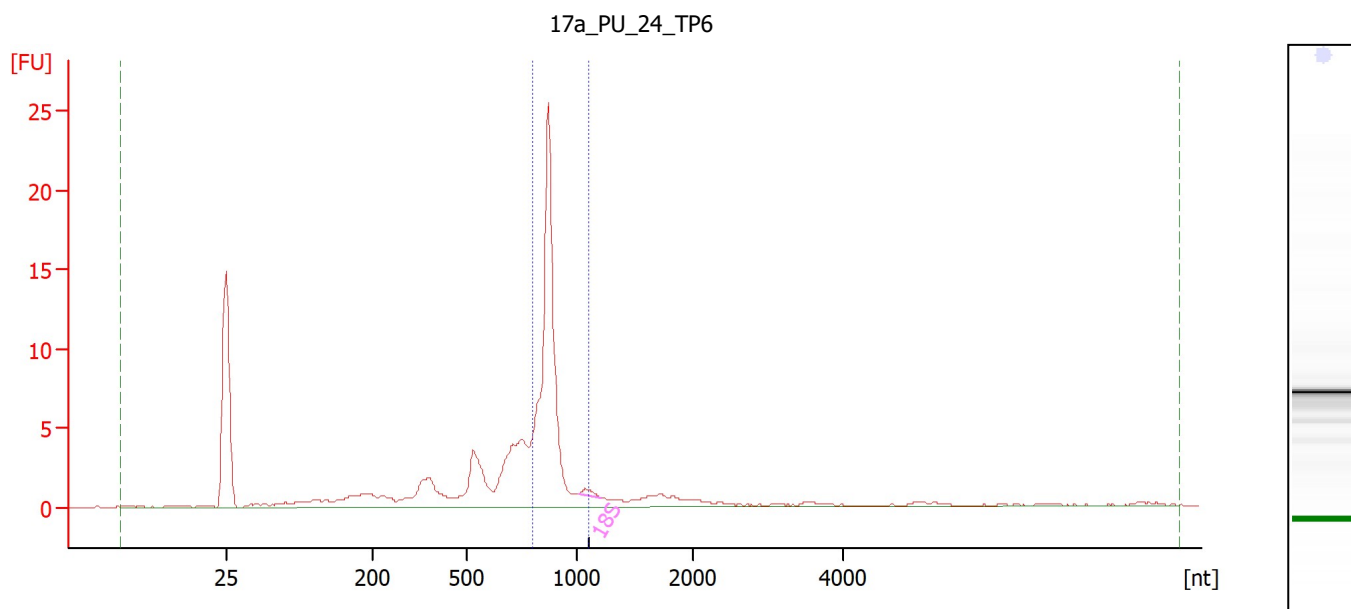
RNA Area:	54.9	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	55 ng/μl	Result Flagging Label:	RIN: 1.70
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	27.6
RNA Integrity Number (RIN):	1.7 (B.02.11, Anomaly Threshold(s) manually adapted)		

### Region table for sample 6 : 17a PU 24 TP5

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	27.6	50	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 15px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
 Modified: 12/11/2020 10:38:58 AM

**Electropherogram Summary Continued ...****Overall Results for sample 7 : 17a PU 24 TP6**

RNA Area:	90.7	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	92 ng/μl	Result Flagging Label:	RIN: 1.70
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	41.1
RNA Integrity Number (RIN):	1.7 (B.02.11, Anomaly Threshold(s) manually adapted)		

**Fragment table for sample 7 : 17a PU 24 TP6**

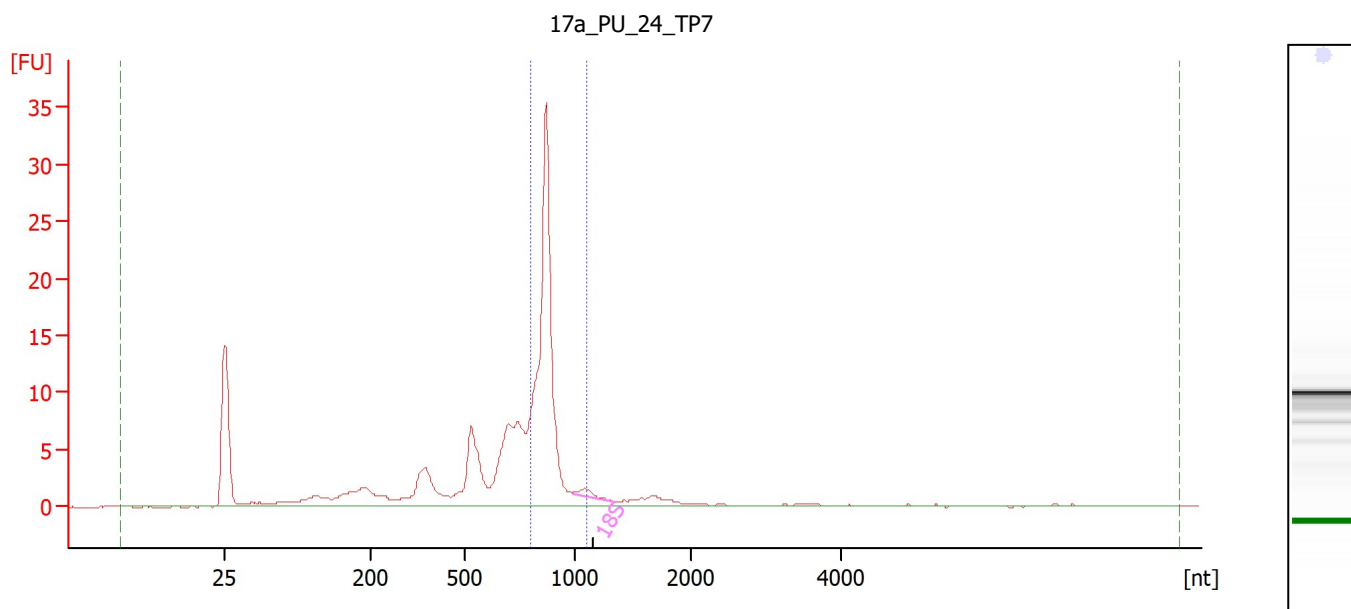
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,027	1,210	0.5	0.6

**Region table for sample 7 : 17a PU 24 TP6**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	41.1	45	<span style="background-color: #0000ff; display: inline-block; width: 15px; height: 10px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
 Modified: 12/11/2020 10:38:58 AM

**Electropherogram Summary Continued ...****Overall Results for sample 8 : 17a PU 24 TP7**

RNA Area:	140.0	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	141 ng/μl	Result Flagging Label:	RIN: 1.60
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	60.8
RNA Integrity Number (RIN):	1.6 (B.02.11, Anomaly Threshold(s) manually adapted)		

**Fragment table for sample 8 : 17a PU 24 TP7**

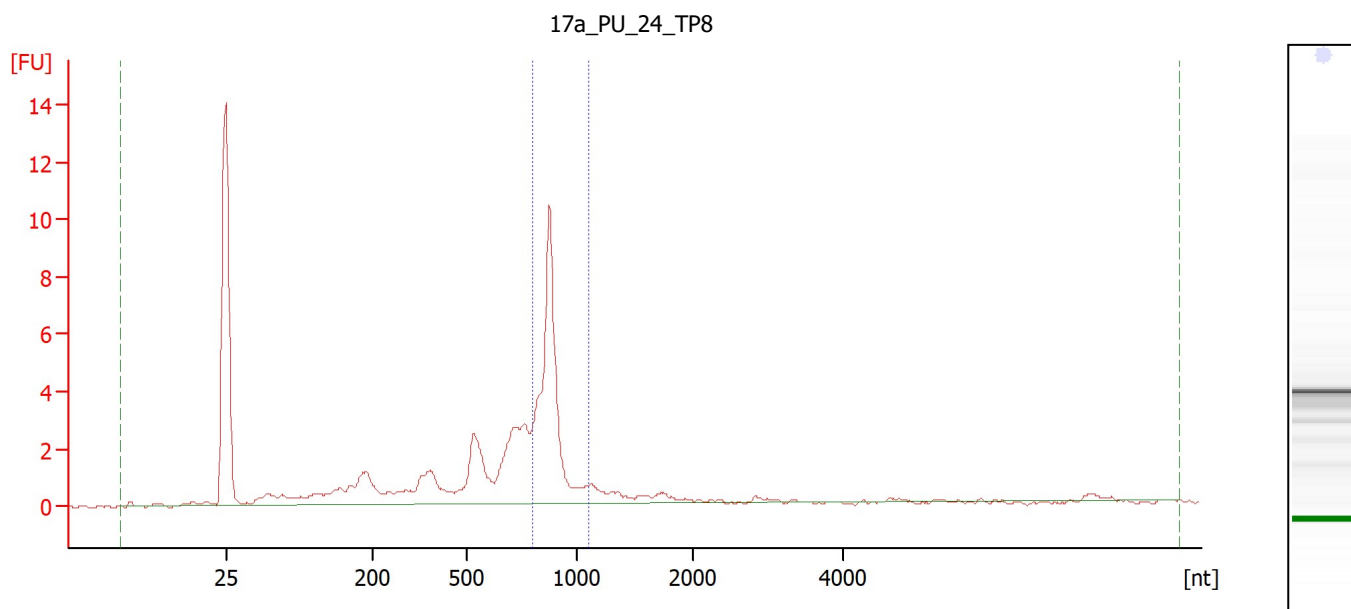
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	988	1,355	1.0	0.7

**Region table for sample 8 : 17a PU 24 TP7**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	60.8	43	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 15px;"></span>

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
Modified: 12/11/2020 10:38:58 AM

**Electropherogram Summary Continued ...****Overall Results for sample 9 : 17a PU 24 TP8**

RNA Area:	56.3	Result Flagging Color:	
RNA Concentration:	57 ng/μl	Result Flagging Label:	RIN:2
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	20.0
RNA Integrity Number (RIN):	2 (B.02.11, Anomaly Threshold(s) manually adapted)		

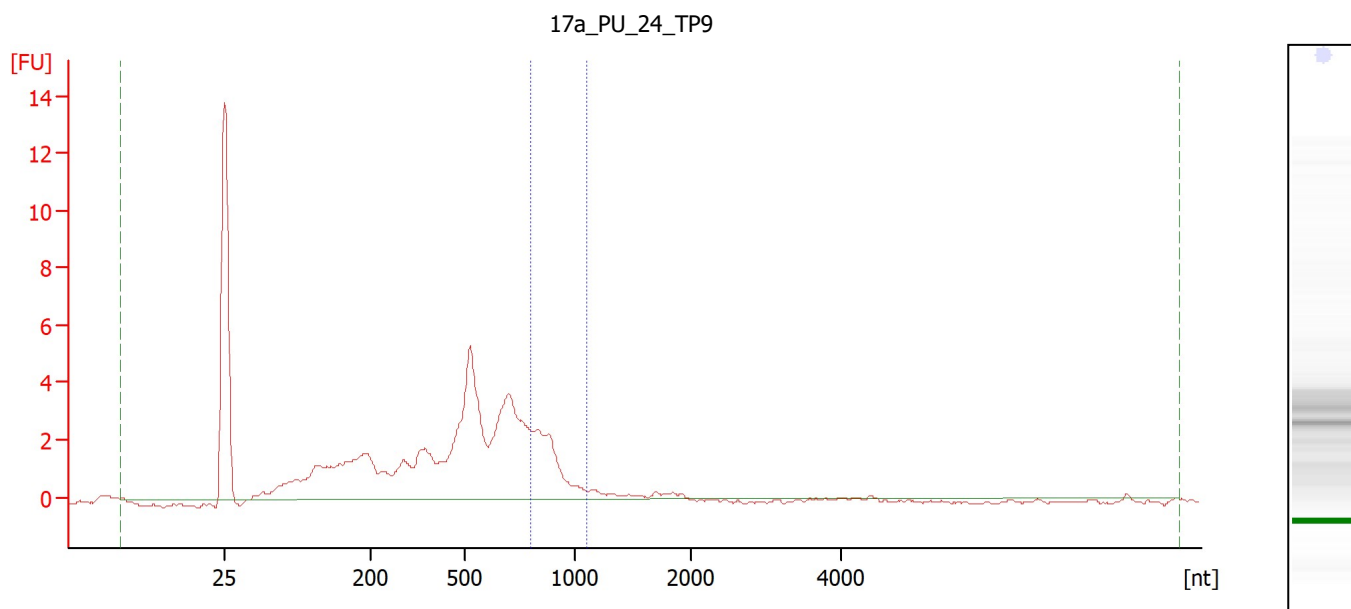
**Region table for sample 9 : 17a PU 24 TP8**

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	20.0	35	

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
 Modified: 12/11/2020 10:38:58 AM

### Electropherogram Summary Continued ...



### Overall Results for sample 10 : 17a\_PU\_24\_TP9

RNA Area:	70.7	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	71 ng/μl	Result Flagging Label:	RIN: 2.30
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	9.1
RNA Integrity Number (RIN):	2.3 (B.02.11, Anomaly Threshold(s) manually adapted)		

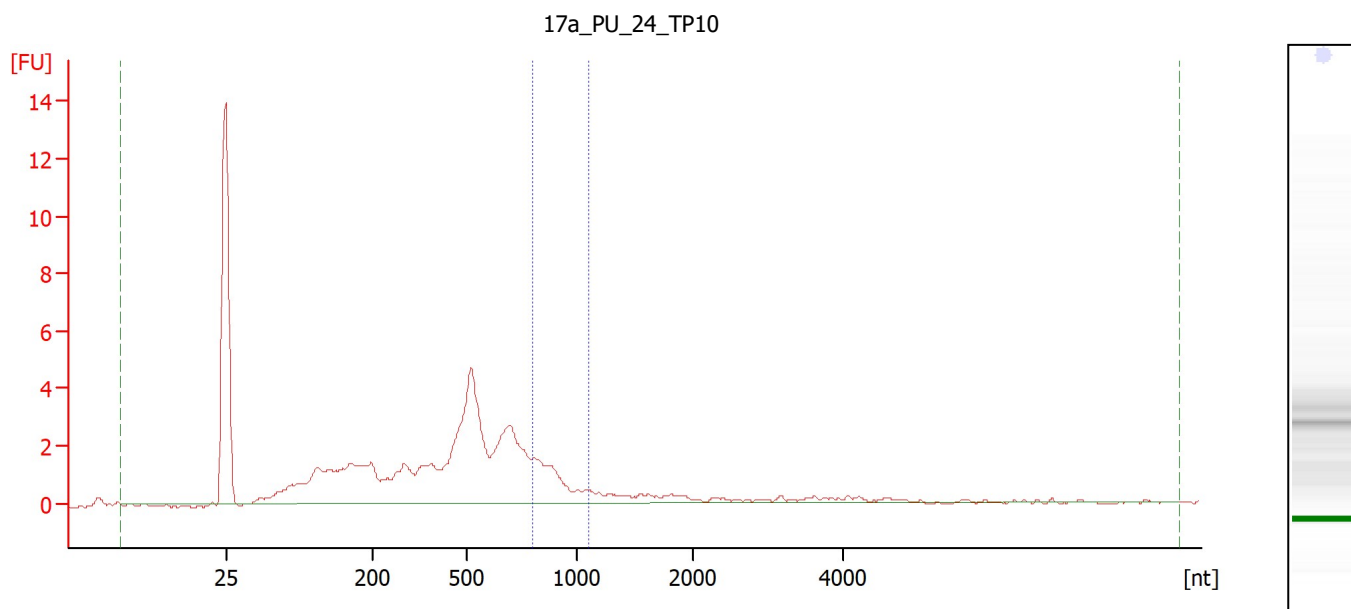
### Region table for sample 10 : 17a\_PU\_24\_TP9

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	9.1	13	<span style="background-color: #0000ff; border: 1px solid black; display: inline-block; width: 20px; height: 15px;"></span>

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
 Modified: 12/11/2020 10:38:58 AM

### Electropherogram Summary Continued ...



### Overall Results for sample 11 : 17a PU 24 TP10

RNA Area:	65.9	Result Flagging Color:	<span style="background-color: #d1c4e9; border: 1px solid black; display: inline-block; width: 30px; height: 15px;"></span>
RNA Concentration:	67 ng/μl	Result Flagging Label:	RIN: 2.30
rRNA Ratio [28s / 18s]:	0.0	Corr. Area 1:	6.0
RNA Integrity Number (RIN):	2.3 (B.02.11, Anomaly Threshold(s) manually adapted)		

### Region table for sample 11 : 17a PU 24 TP10

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	800	1,100	6.0	9	<span style="background-color: #0000ff; display: inline-block; width: 20px; height: 15px;"></span>

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...2020-12-11\Eukaryote Total RNA Nano\_2020-12-11\_09-53-14.xad

Created: 12/11/2020 9:53:13 AM  
Modified: 12/11/2020 10:38:58 AM

**Gel Image**