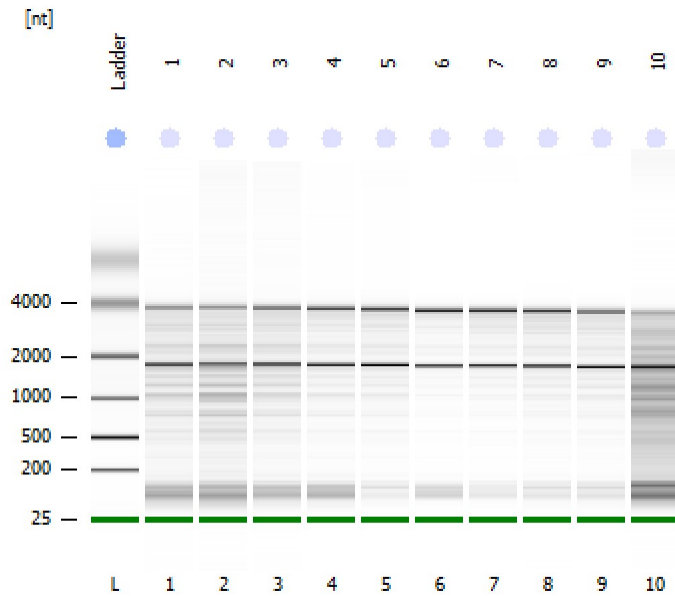


Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 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 (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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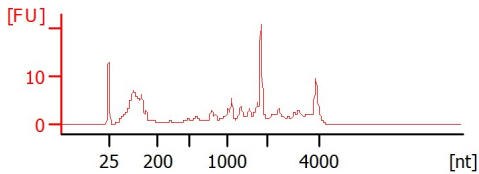
Chip Information:

Chip Lot #:

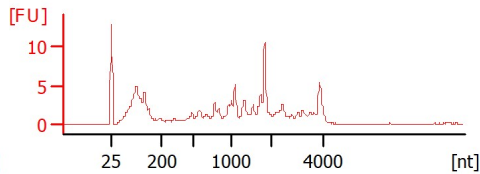
Reagent Kit Lot #:

Chip Comments:

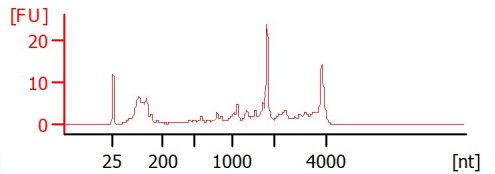
**1**  
QC0641  
RIN: 6.70



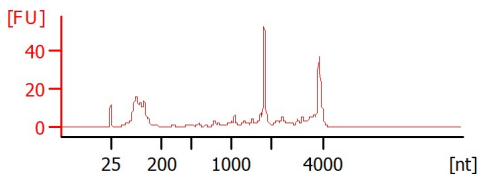
**2**  
QC0641  
RIN: 6.50



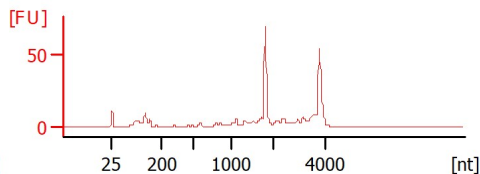
**3**  
QC0641  
RIN: 7.10



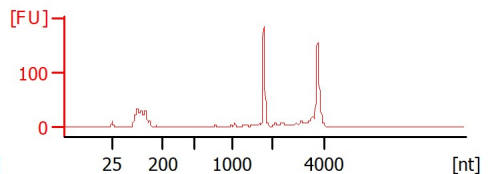
**4**  
QC0641  
RIN: 7.60



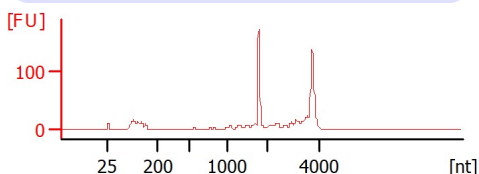
**5**  
QC0641  
RIN: 7.90



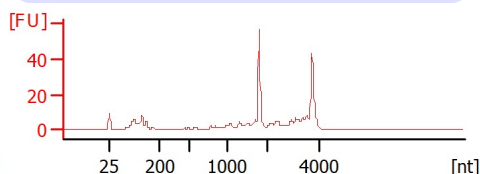
**6**  
QC0641  
RIN: 8.90



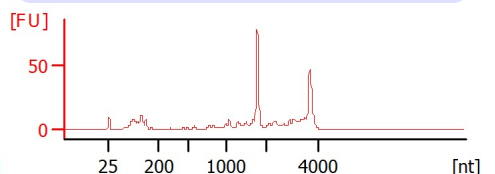
**7**  
QC0641  
RIN: 8.70



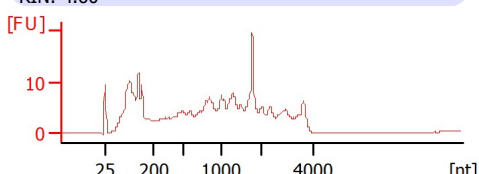
**8**  
QC0641  
RIN: 7.90



**9**  
QC0641  
RIN: 7.60



**10**  
QC0641  
RIN: 4.60



Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
 Modified: 8/20/2020 1:22:08 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
1	QC0641	✓	RIN: 6.70	
2	QC0641	✓	RIN: 6.50	
3	QC0641	✓	RIN: 7.10	
4	QC0641	✓	RIN: 7.60	
5	QC0641	✓	RIN: 7.90	
6	QC0641	✓	RIN: 8.90	
7	QC0641	✓	RIN: 8.70	
8	QC0641	✓	RIN: 7.90	
9	QC0641	✓	RIN: 7.60	
10	QC0641	✓	RIN: 4.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 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

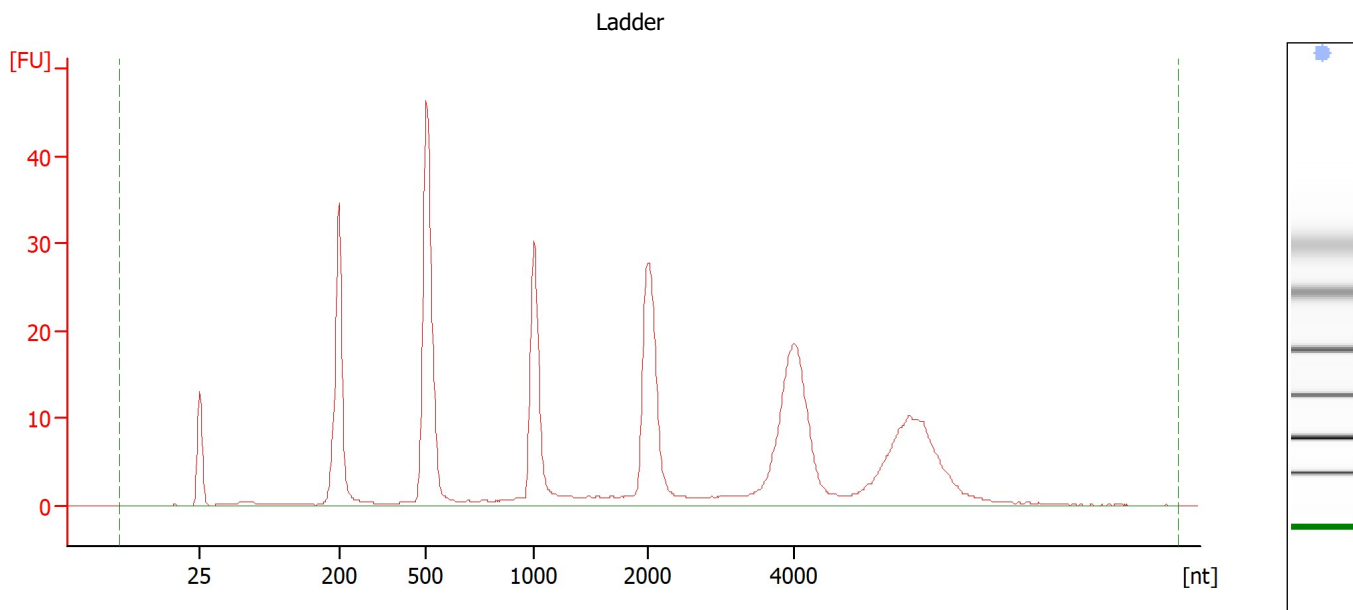
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary**



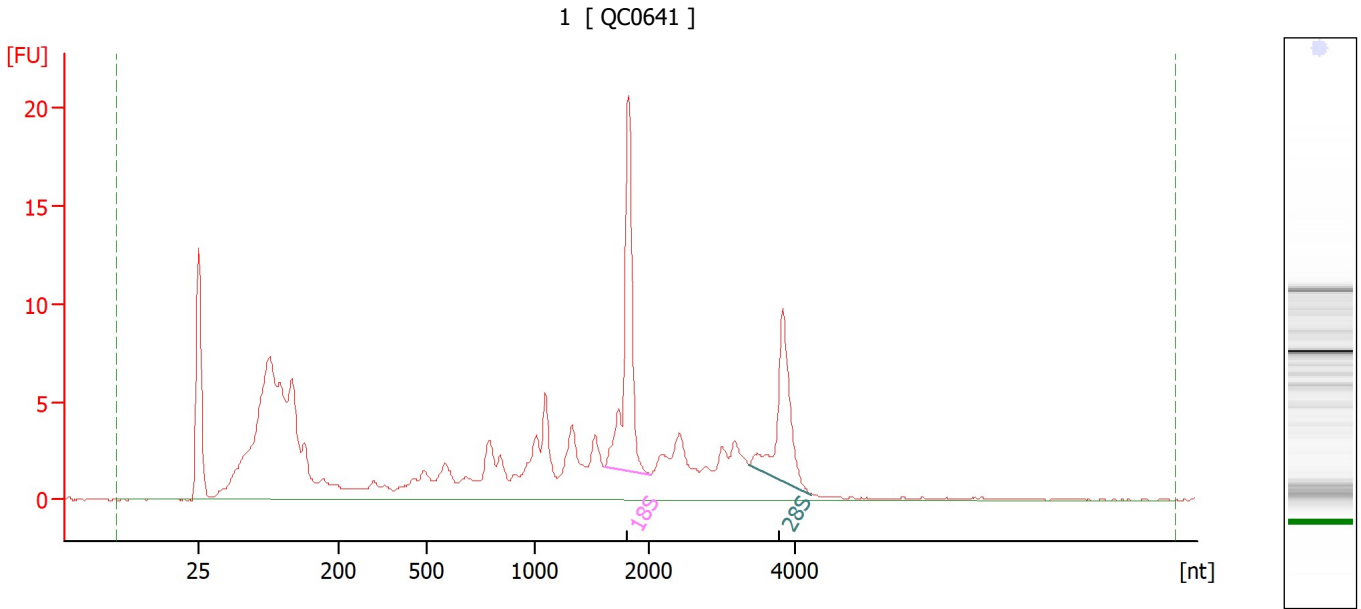
**Overall Results for Ladder**

RNA Area:	339.8	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1**

RNA Area:	179.9	RNA Integrity Number (RIN):	6.7 (B.02.10)
RNA Concentration:	79 ng/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]:	0.6	Result Flagging Label:	RIN: 6.70

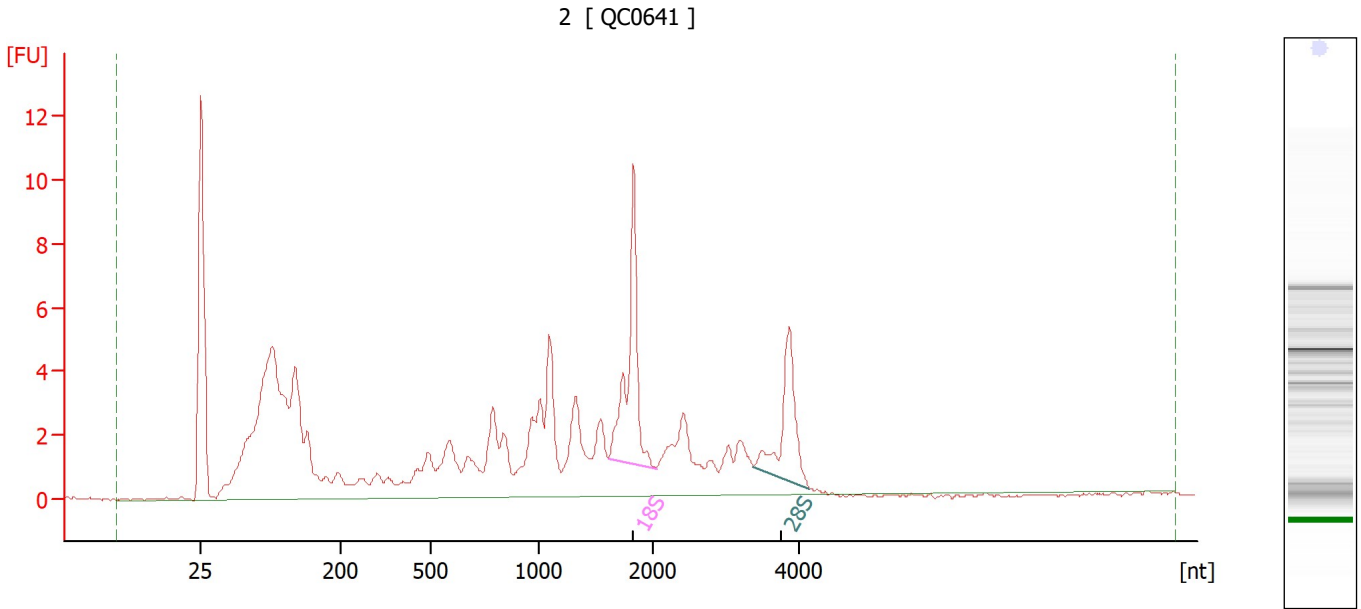
**Fragment table for sample 1 : 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,607	2,017	18.3	10.1
28S	3,379	4,213	11.7	6.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 2**

RNA Area:	125.0	RNA Integrity Number (RIN):	6.5 (B.02.10)
RNA Concentration:	55 ng/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]:	0.6	Result Flagging Label:	RIN: 6.50

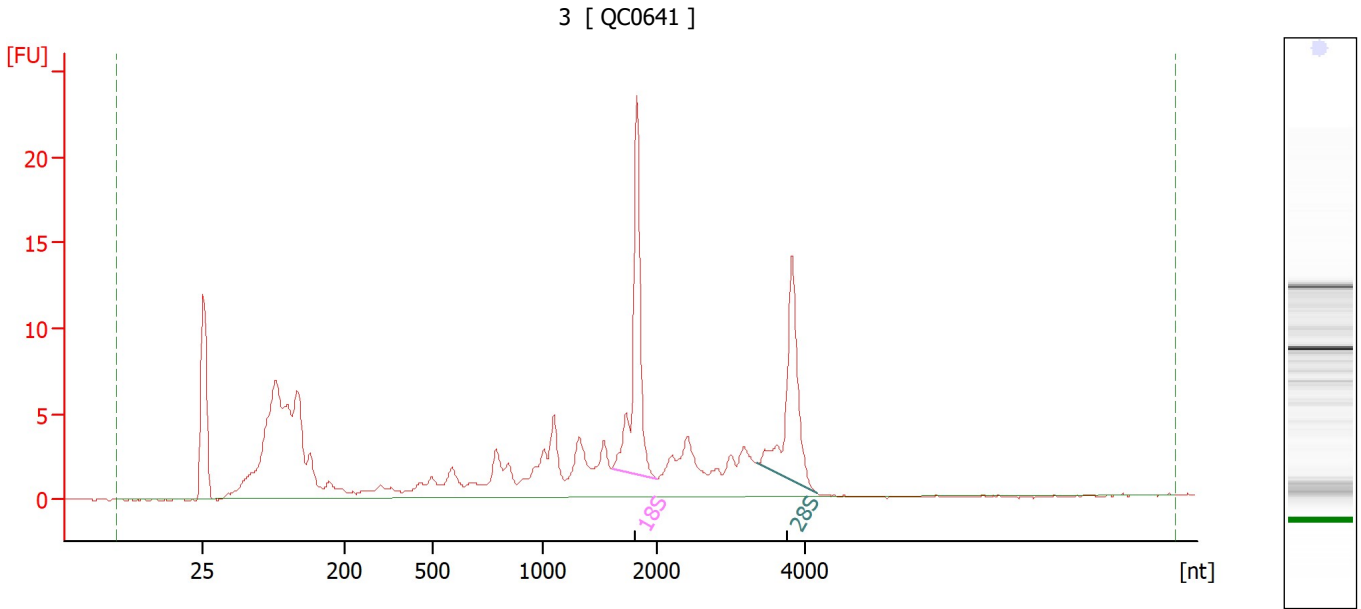
**Fragment table for sample 2 : 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	2,049	10.6	8.5
28S	3,376	4,134	6.5	5.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3**

RNA Area:	164.2	RNA Integrity Number (RIN):	7.1 (B.02.10)
RNA Concentration:	72 ng/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]:	0.8	Result Flagging Label:	RIN: 7.10

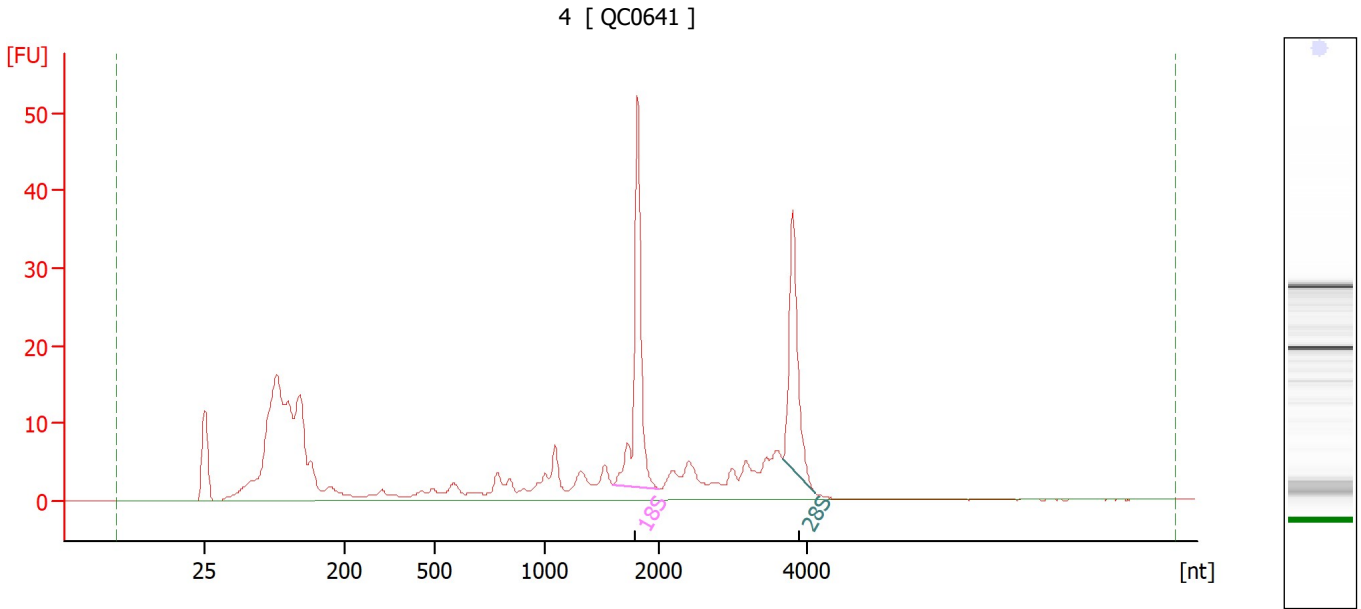
**Fragment table for sample 3 : 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	1,996	21.2	12.9
28S	3,358	4,186	16.2	9.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 4**

RNA Area: 306.8                      RNA Integrity Number (RIN): 7.6 (B.02.10)  
RNA Concentration: 135 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7              Result Flagging Label: RIN: 7.60

**Fragment table for sample 4 : 4**

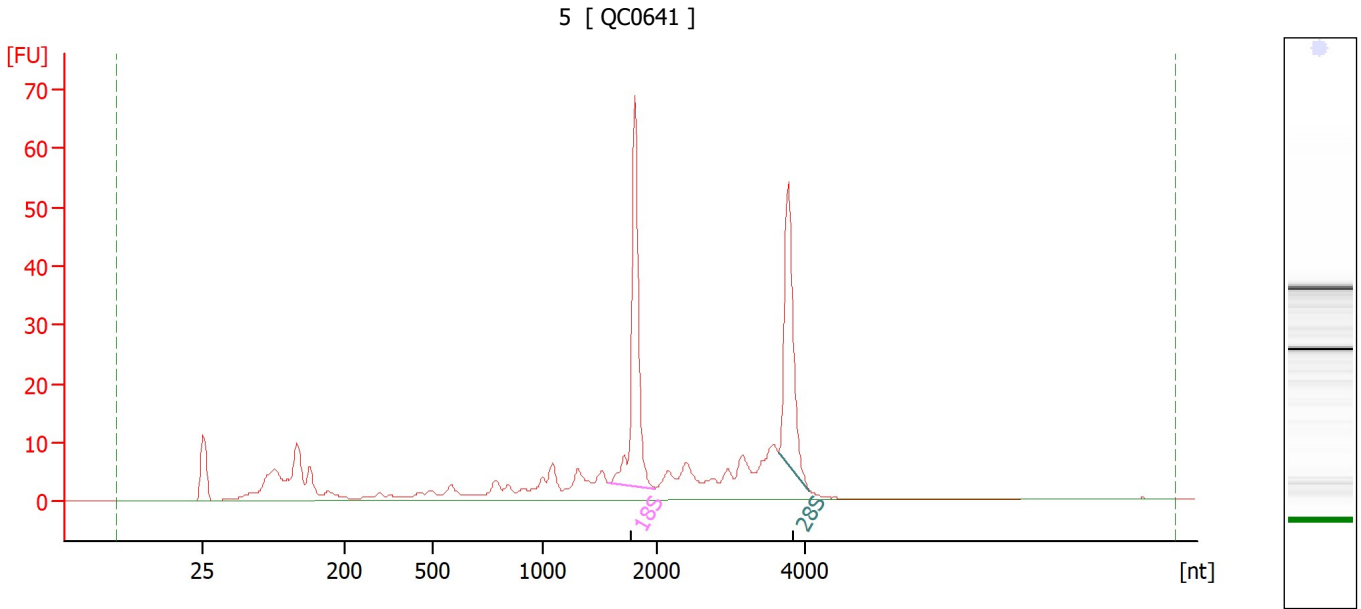
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	2,010	43.6	14.2
28S	3,676	4,110	30.5	9.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 5**

RNA Area: 306.5                      RNA Integrity Number (RIN): 7.9 (B.02.10)  
RNA Concentration: 135 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7              Result Flagging Label: RIN: 7.90

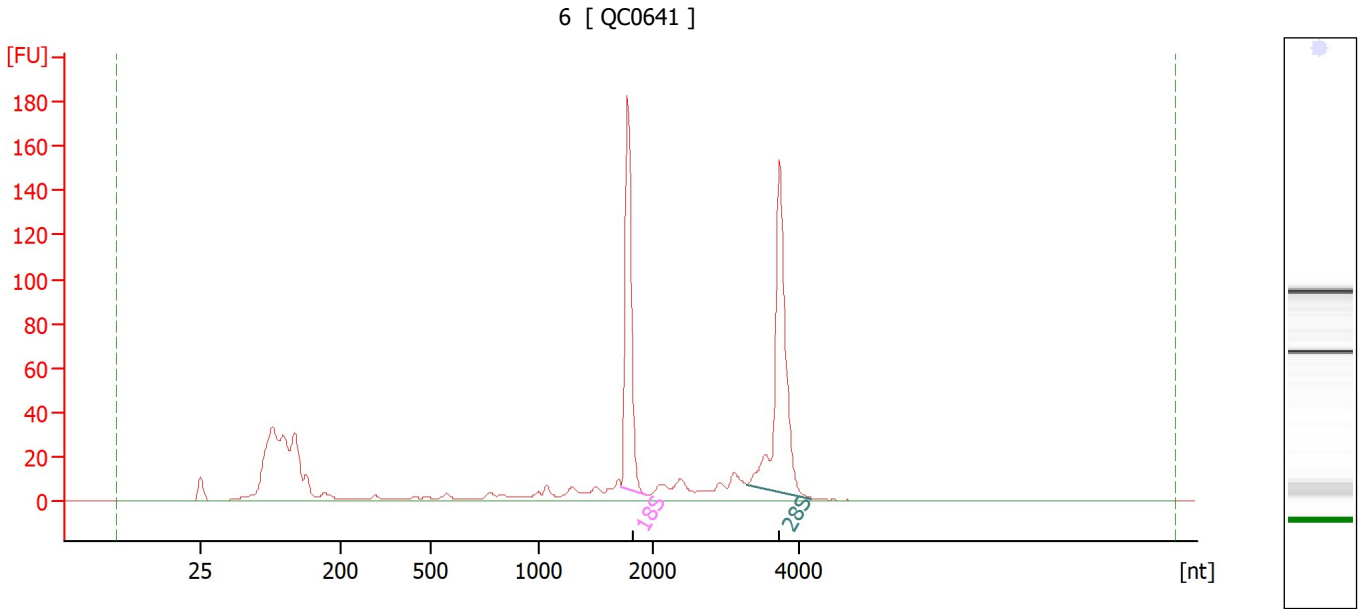
**Fragment table for sample 5 : 5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,986	59.5	19.4
28S	3,649	4,070	42.8	14.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 6**

RNA Area: 716.1                      RNA Integrity Number (RIN): 8.9 (B.02.10)  
RNA Concentration: 316 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3              Result Flagging Label: RIN: 8.90

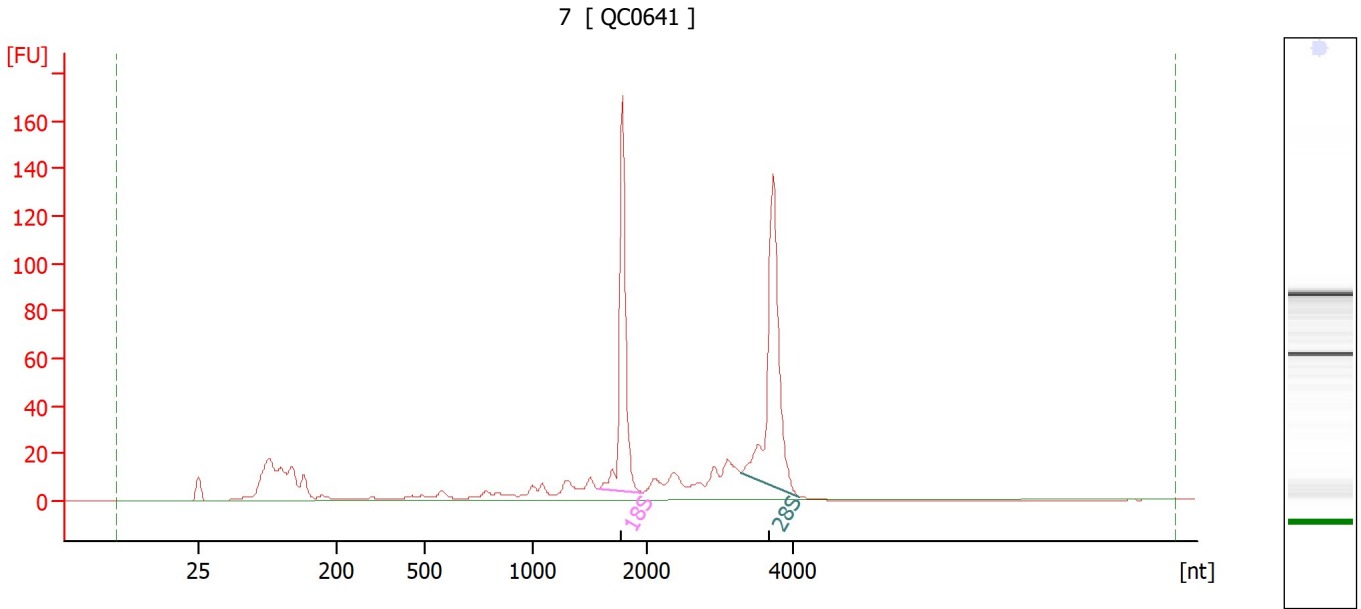
**Fragment table for sample 6 : 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,723	1,947	129.5	18.1
28S	3,274	4,163	171.0	23.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 7**

RNA Area:	642.3	RNA Integrity Number (RIN):	8.7 (B.02.10)
RNA Concentration:	284 ng/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]:	1.2	Result Flagging Label:	RIN: 8.70

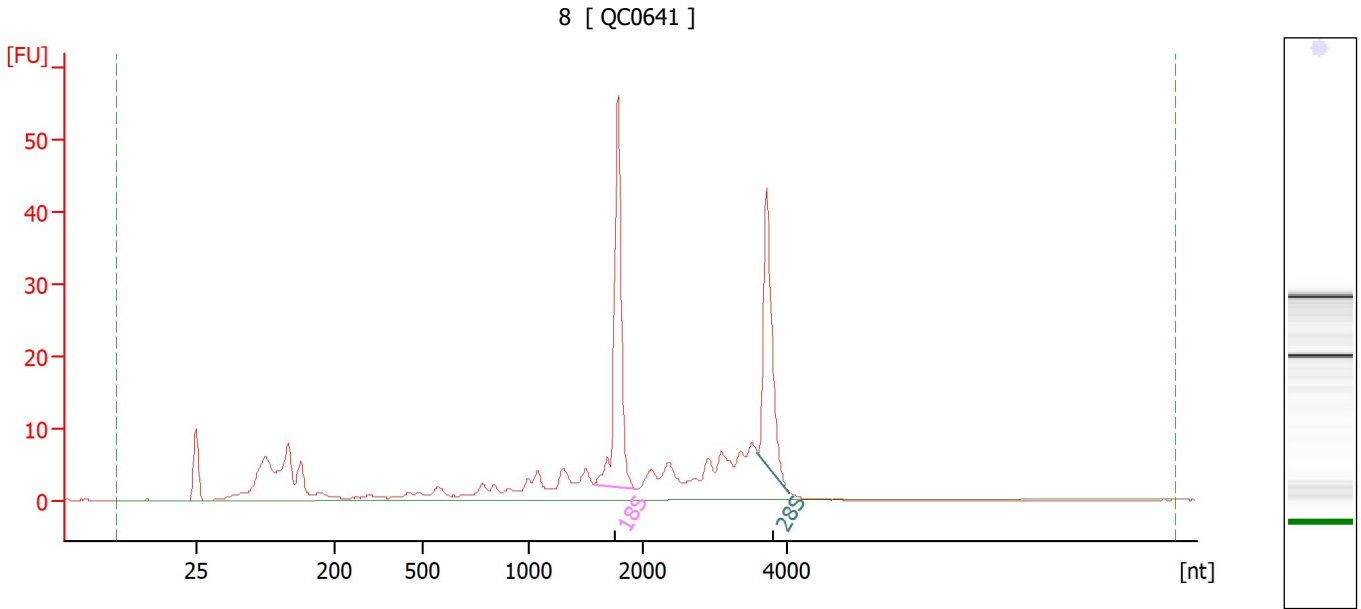
**Fragment table for sample 7 : 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,577	1,963	131.4	20.5
28S	3,292	4,085	153.9	24.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 8**

RNA Area:	250.1	RNA Integrity Number (RIN):	7.9 (B.02.10)
RNA Concentration:	110 ng/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]:	0.7	Result Flagging Label:	RIN: 7.90

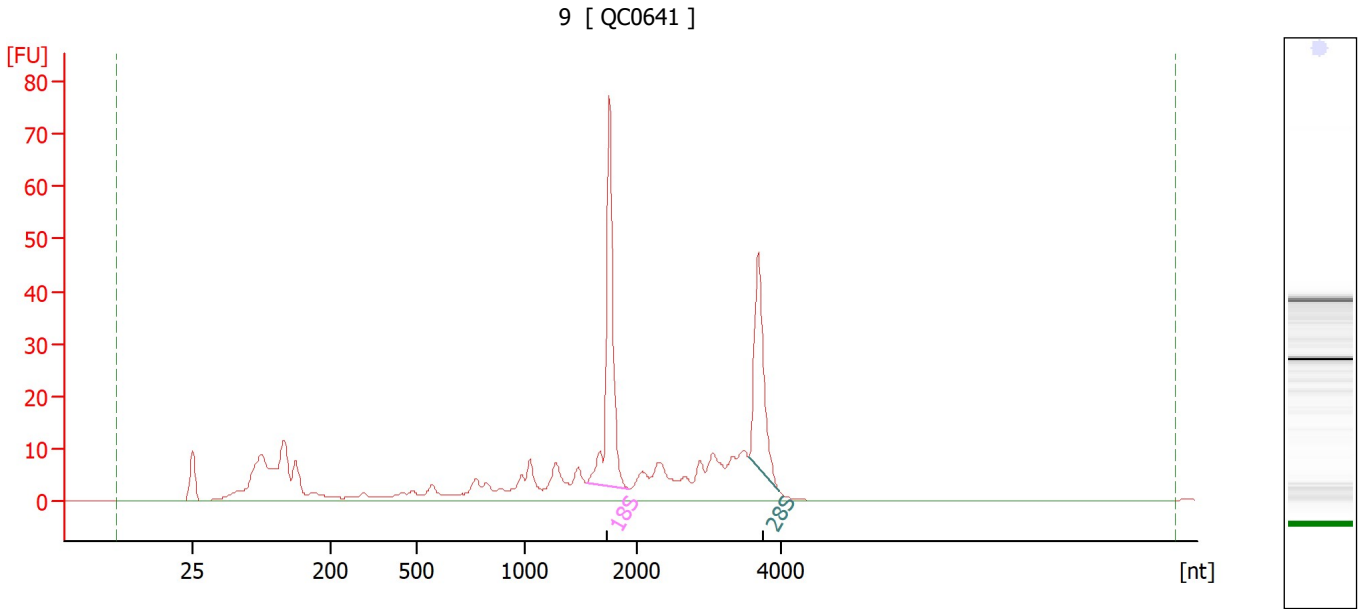
**Fragment table for sample 8 : 8**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,942	47.6	19.0
28S	3,575	4,017	34.6	13.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 9**

RNA Area: 357.8                      RNA Integrity Number (RIN): 7.6 (B.02.10)  
RNA Concentration: 158 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.6              Result Flagging Label: RIN: 7.60

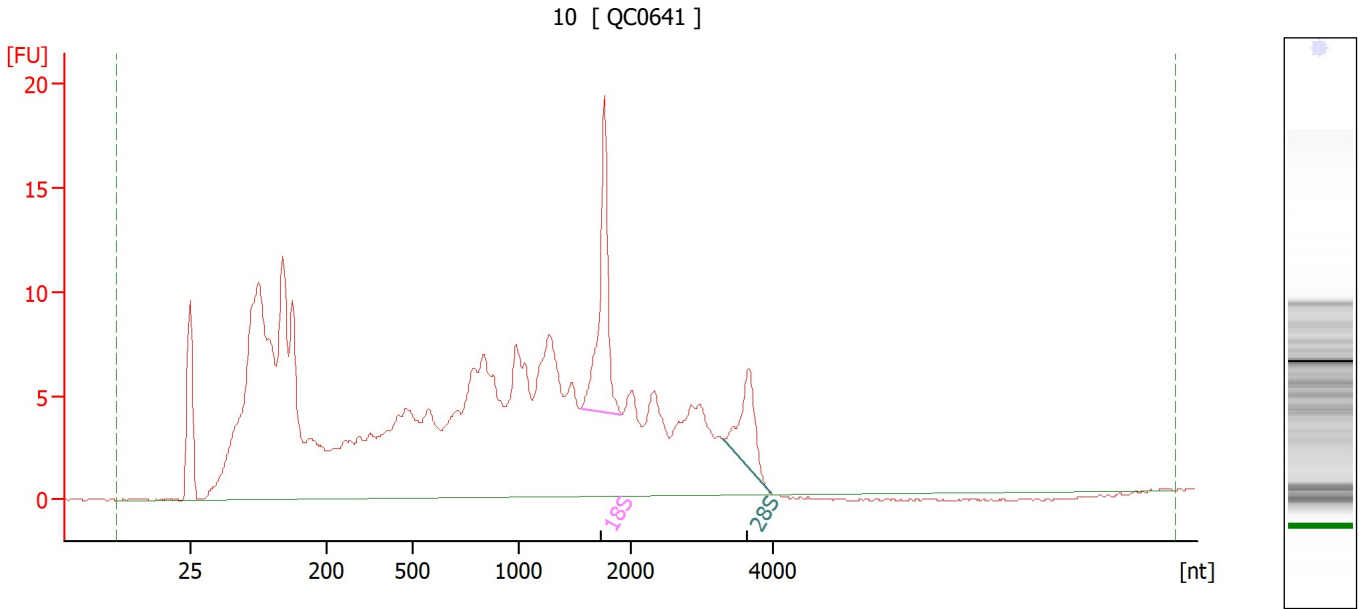
**Fragment table for sample 9 : 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,548	1,939	64.2	17.9
28S	3,551	3,981	41.2	11.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 10**

RNA Area:	341.9	RNA Integrity Number (RIN):	4.6 (B.02.10)
RNA Concentration:	151 ng/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]:	0.5	Result Flagging Label:	RIN: 4.60

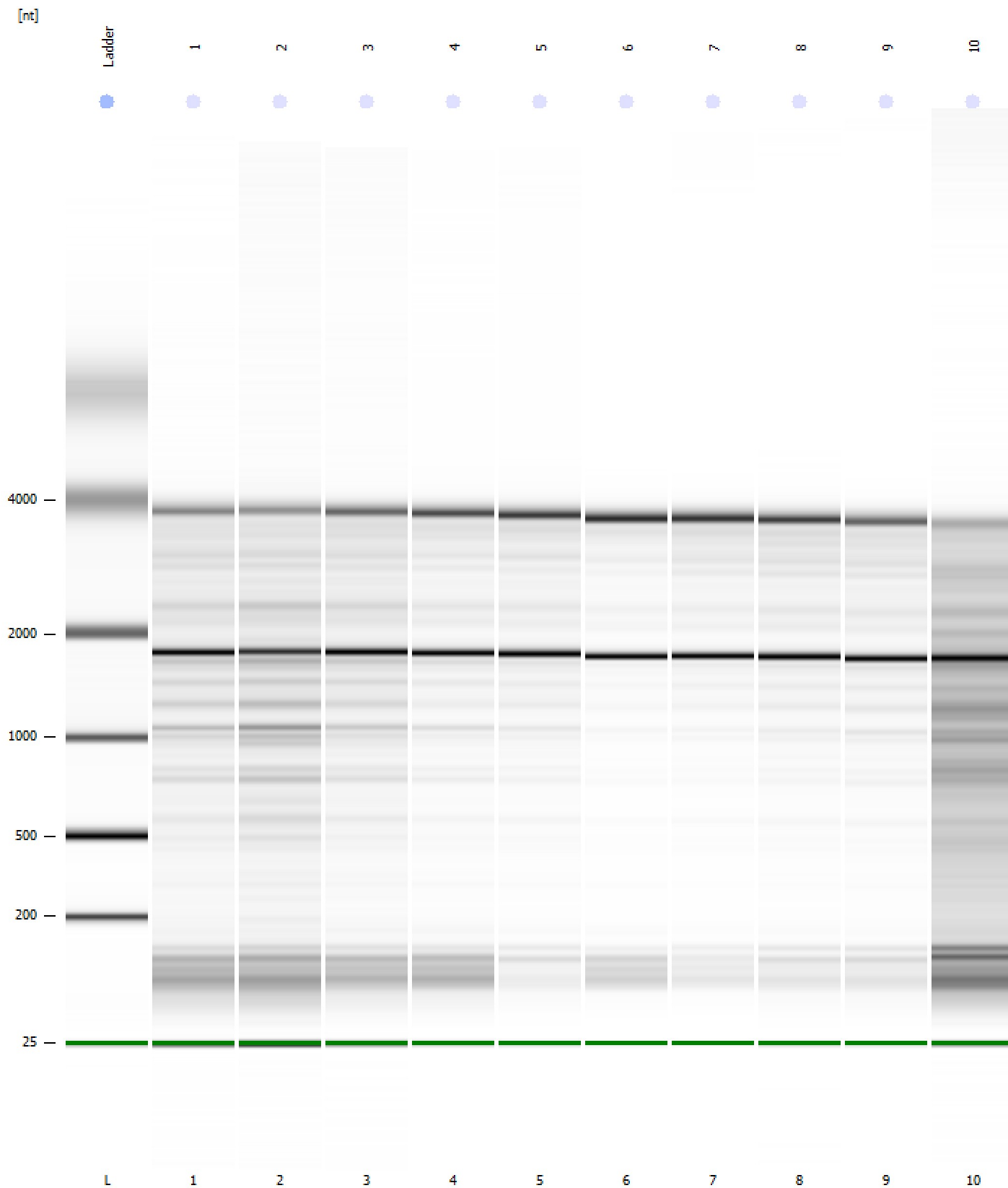
**Fragment table for sample 10 : 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,552	1,916	16.5	4.8
28S	3,303	3,960	7.5	2.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
Modified: 8/20/2020 1:22:08 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: Z:\XADs\2020-08-20\QC0641.xad

Created: 8/20/2020 12:51:30 PM  
 Modified: 8/20/2020 1:22:08 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		8/20/2020 1:15:19 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-08-20\Bioanalyze_r1_Eukaryote Total RNA Nano_2020-08-20_001.xad)		Instrument	Run		8/20/2020 12:51:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		8/20/2020 12:51:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		8/20/2020 12:51:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		8/20/2020 12:51:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		8/20/2020 12:51:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		8/20/2020 12:51:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		8/20/2020 12:51:36 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB