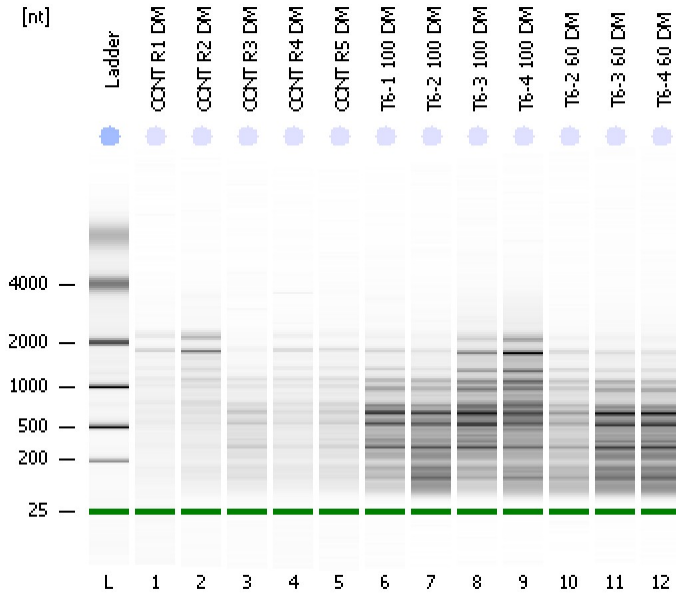


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

Electrophoresis File Run Summary



Instrument Information:

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

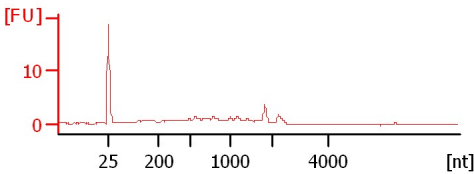
Assay Information:

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

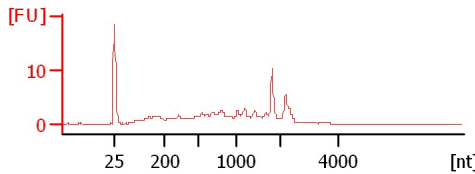
Chip Information:

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

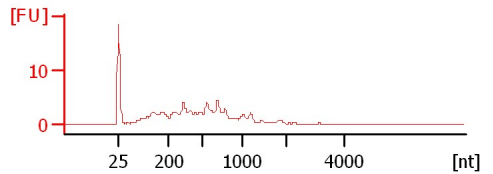
CONT R1 DM  
RIN: 6.50



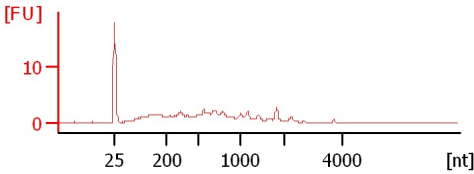
CONT R2 DM  
RIN: 5.60



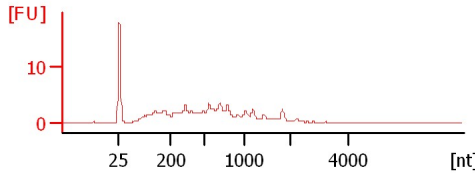
CONT R3 DM  
RIN: 2.80



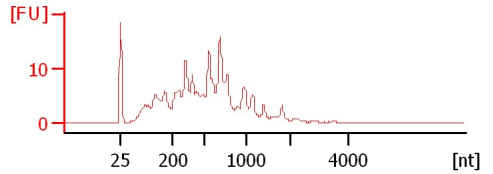
CONT R4 DM  
RIN: 6.10



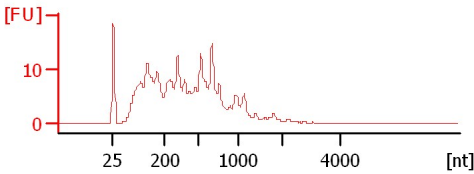
CONT R5 DM  
RIN: 3



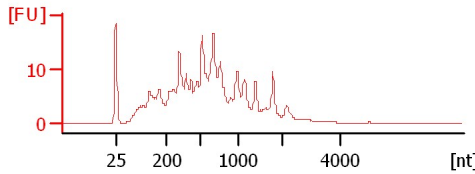
T6-1 100 DM  
RIN: 2.70



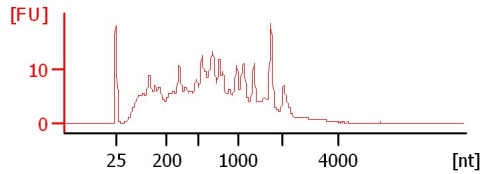
T6-2 100 DM  
RIN: 2.70



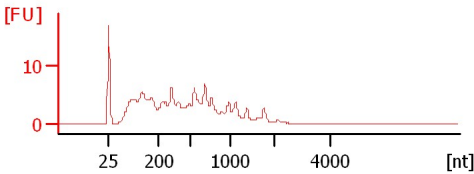
T6-3 100 DM  
RIN: 3.20



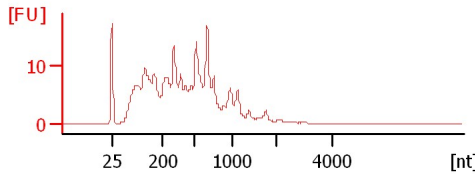
T6-4 100 DM  
RIN: 4.20



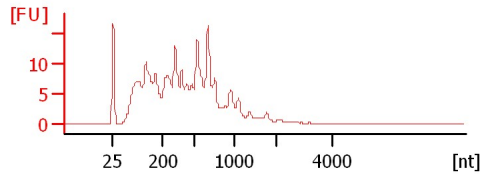
T6-2 60 DM  
RIN: 3



T6-3 60 DM  
RIN: 2.70



T6-4 60 DM  
RIN: 2.50



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
 Modified: 10/24/2019 4:36:09 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
CONT R1 DM		✓	RIN: 6.50	
CONT R2 DM		✓	RIN: 5.60	
CONT R3 DM		✓	RIN: 2.80	
CONT R4 DM		✓	RIN: 6.10	
CONT R5 DM		✓	RIN:3	
T6-1 100 DM		✓	RIN: 2.70	
T6-2 100 DM		✓	RIN: 2.70	
T6-3 100 DM		✓	RIN: 3.20	
T6-4 100 DM		✓	RIN: 4.20	
T6-2 60 DM		✓	RIN:3	
T6-3 60 DM		✓	RIN: 2.70	
T6-4 60 DM		✓	RIN: 2.50	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 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

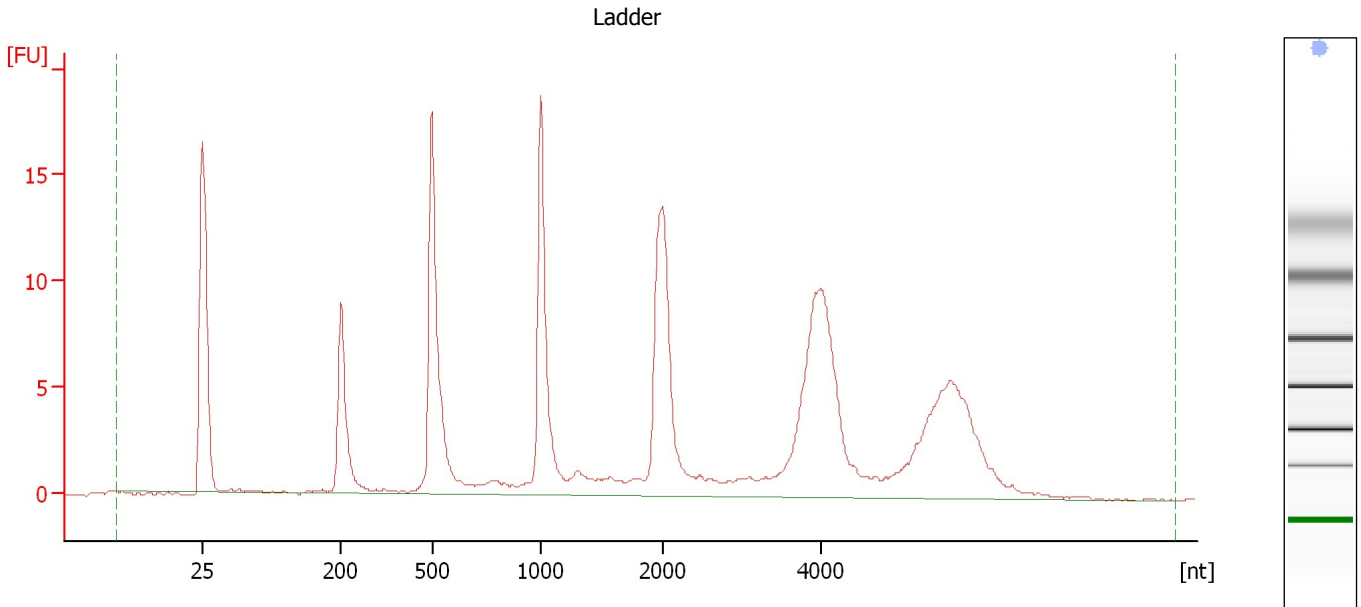
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary**



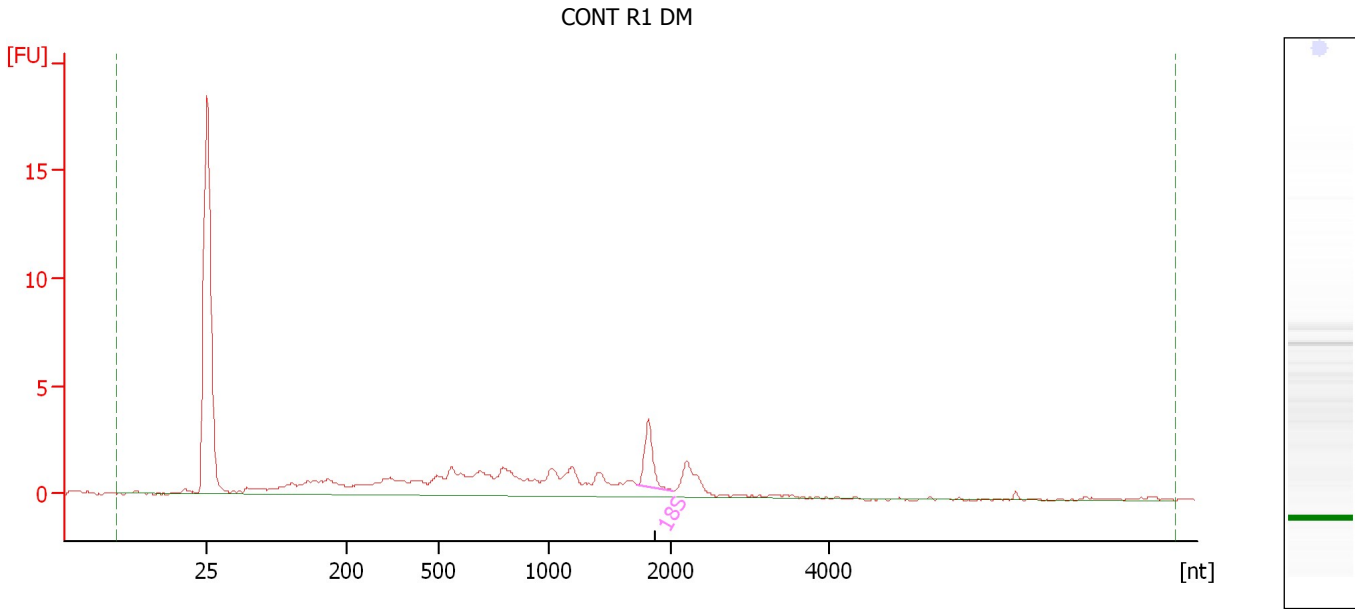
**Overall Results for Ladder**

RNA Area:	172.6	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : CONT R1 DM**

RNA Area:	47.7	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	41 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]:	0.0	Result Flagging Label:	RIN: 6.50

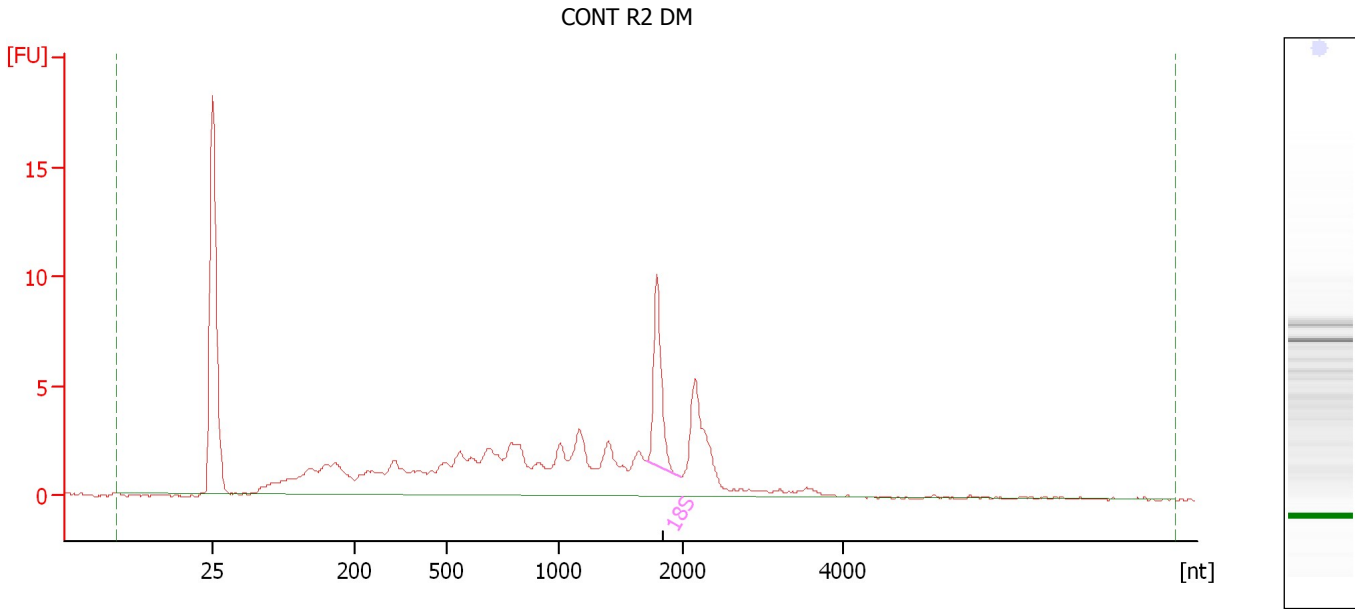
**Fragment table for sample 1 : CONT R1 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,730	2,044	3.1	6.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : CONT R2 DM**

RNA Area:	95.7	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	83 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]:	0.0	Result Flagging Label:	RIN: 5.60

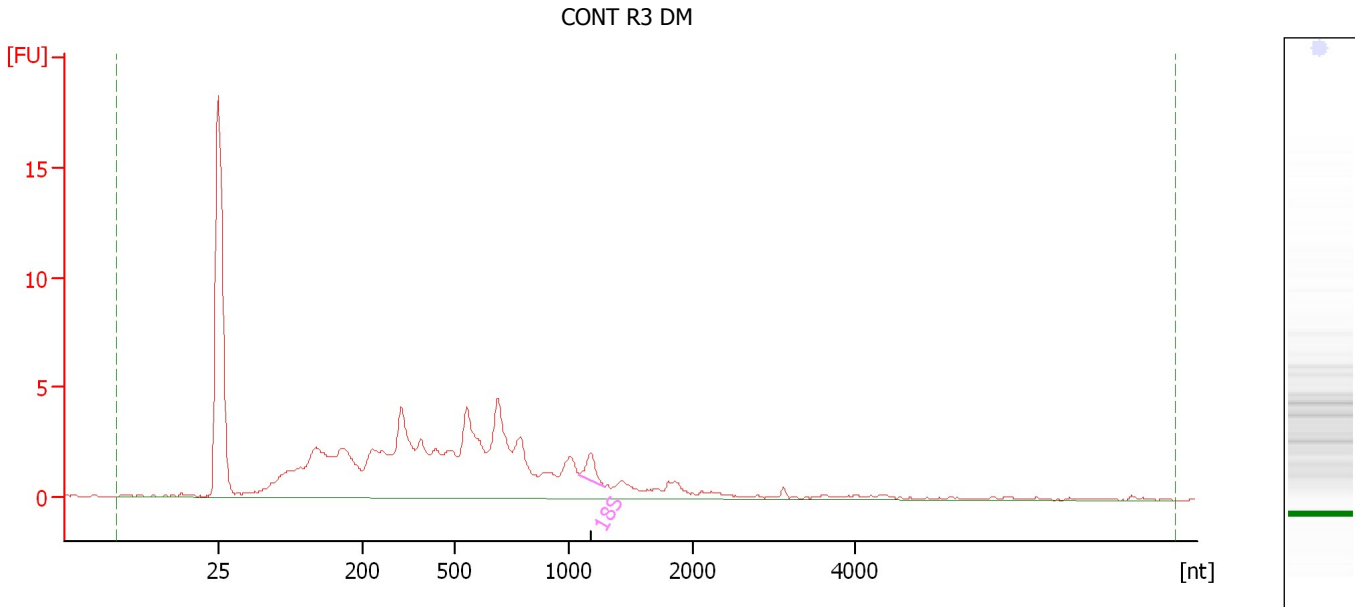
**Fragment table for sample 2 : CONT R2 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,704	1,981	8.1	8.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : CONT R3 DM**

RNA Area:	100.3	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	87 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]:	0.0	Result Flagging Label:	RIN: 2.80

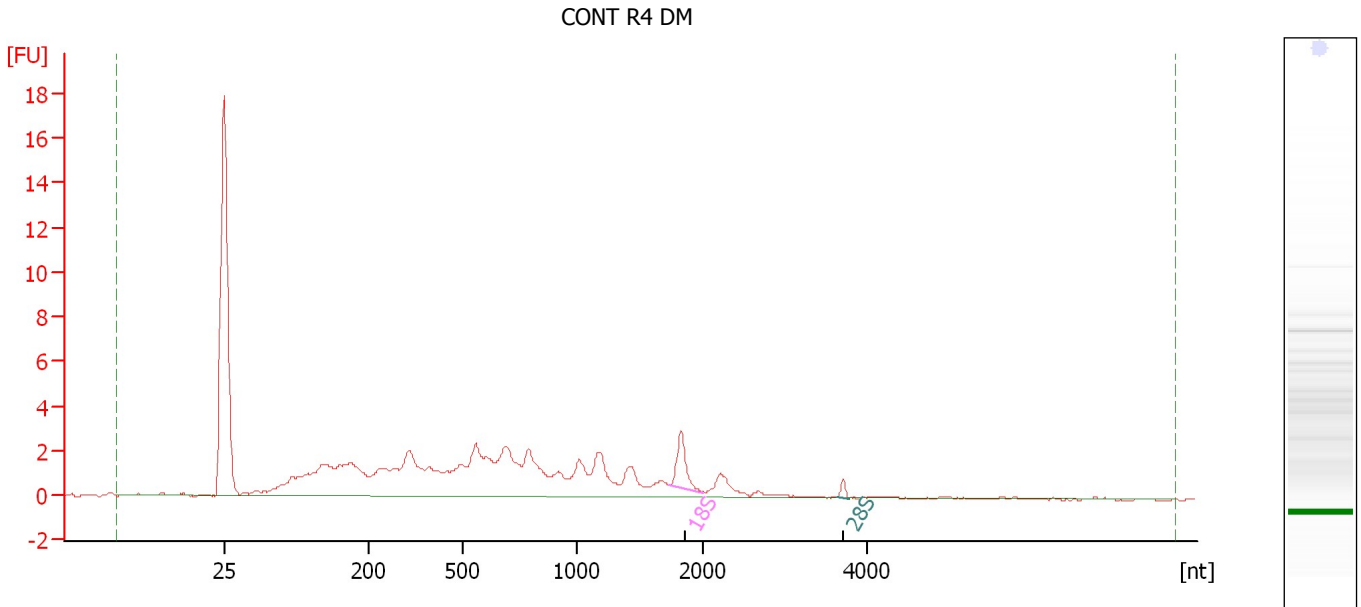
**Fragment table for sample 3 : CONT R3 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,093	1,290	1.4	1.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : CONT R4 DM**

RNA Area: 74.3                      RNA Integrity Number (RIN): 6.1 (B.02.08)  
RNA Concentration: 65 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2              Result Flagging Label: RIN: 6.10

**Fragment table for sample 4 : CONT R4 DM**

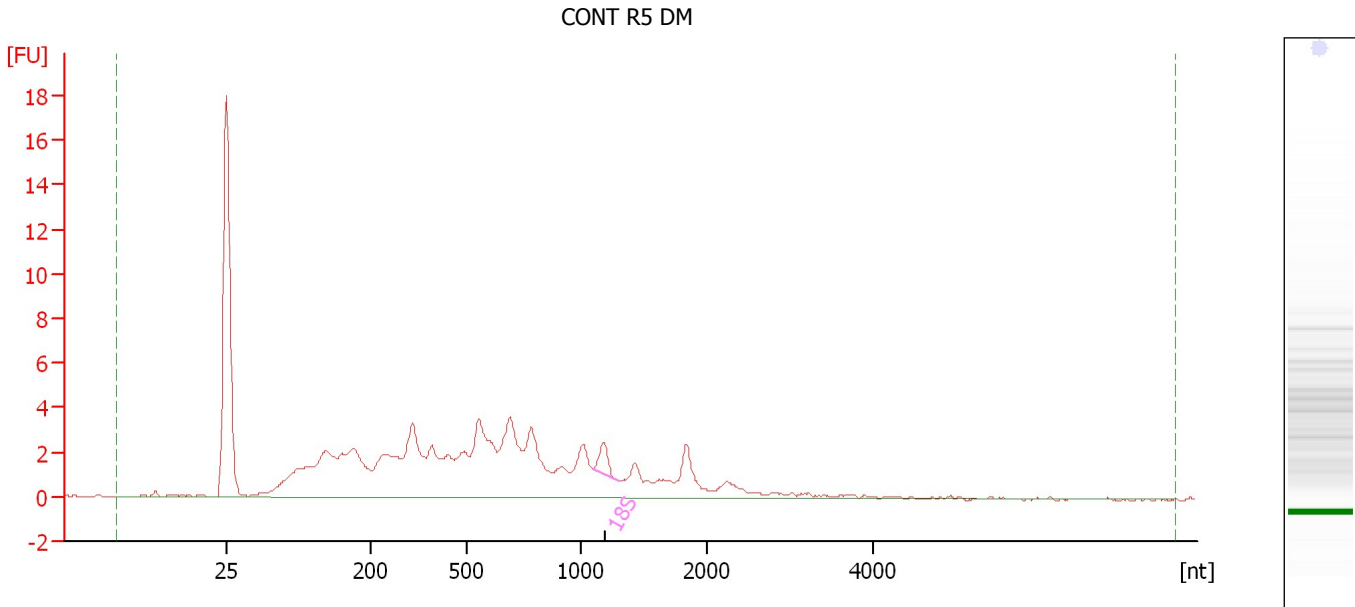
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,734	1,997	2.6	3.5
28S	3,616	3,771	0.4	0.5



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : CONT R5 DM**

RNA Area:	104.9	RNA Integrity Number (RIN):	3 (B.02.08)
RNA Concentration:	91 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]:	0.0	Result Flagging Label:	RIN:3

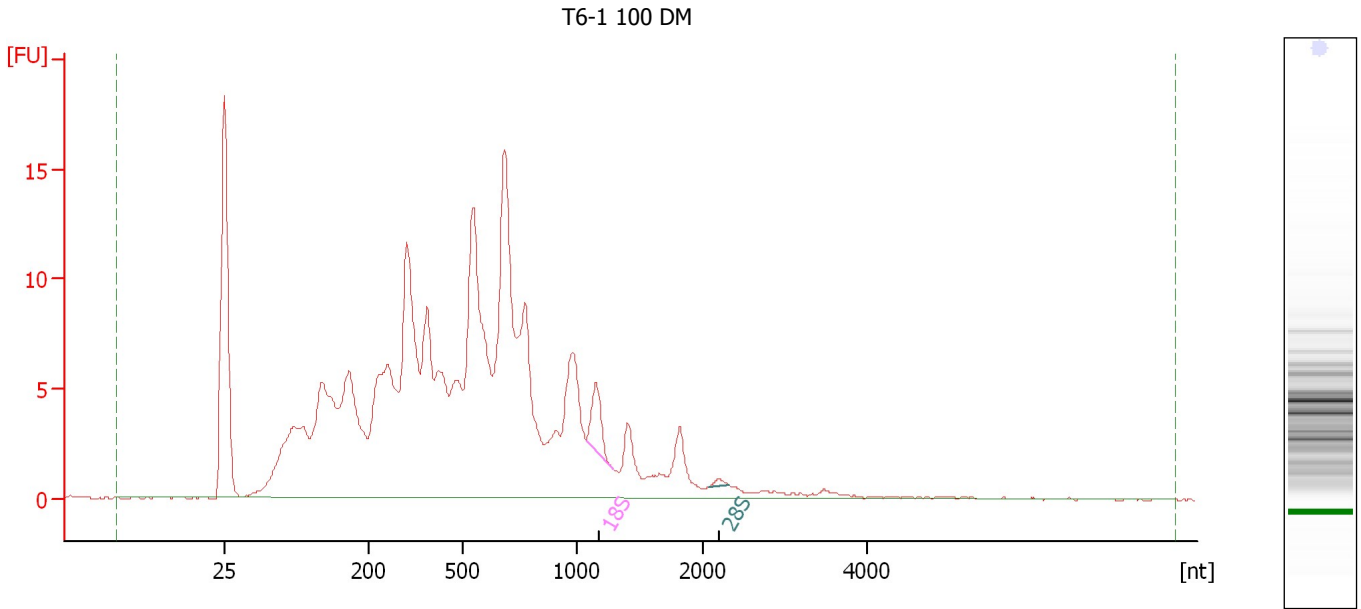
**Fragment table for sample 5 : CONT R5 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,102	1,305	1.6	1.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : T6-1 100 DM**

RNA Area: 264.9 RNA Integrity Number (RIN): 2.7 (B.02.08)  
RNA Concentration: 230 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 2.70

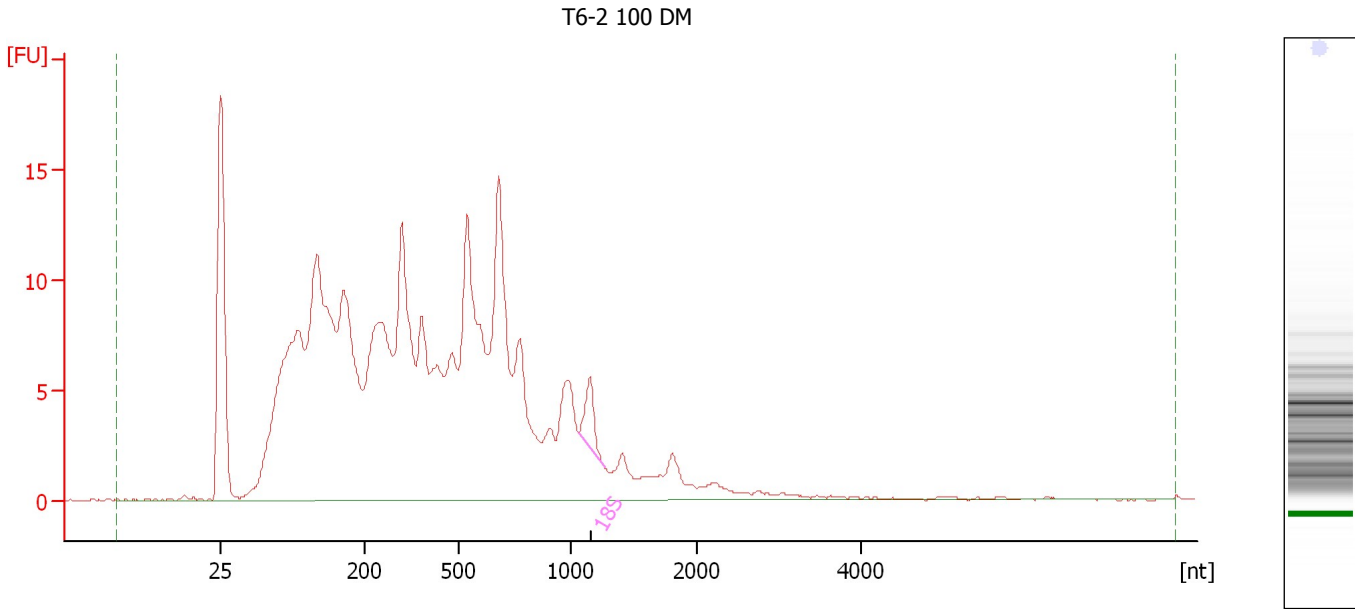
**Fragment table for sample 6 : T6-1 100 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,072	1,292	3.6	1.4
28S	2,073	2,307	0.3	0.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : T6-2 100 DM**

RNA Area:	334.8	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	291 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]:	0.0	Result Flagging Label:	RIN: 2.70

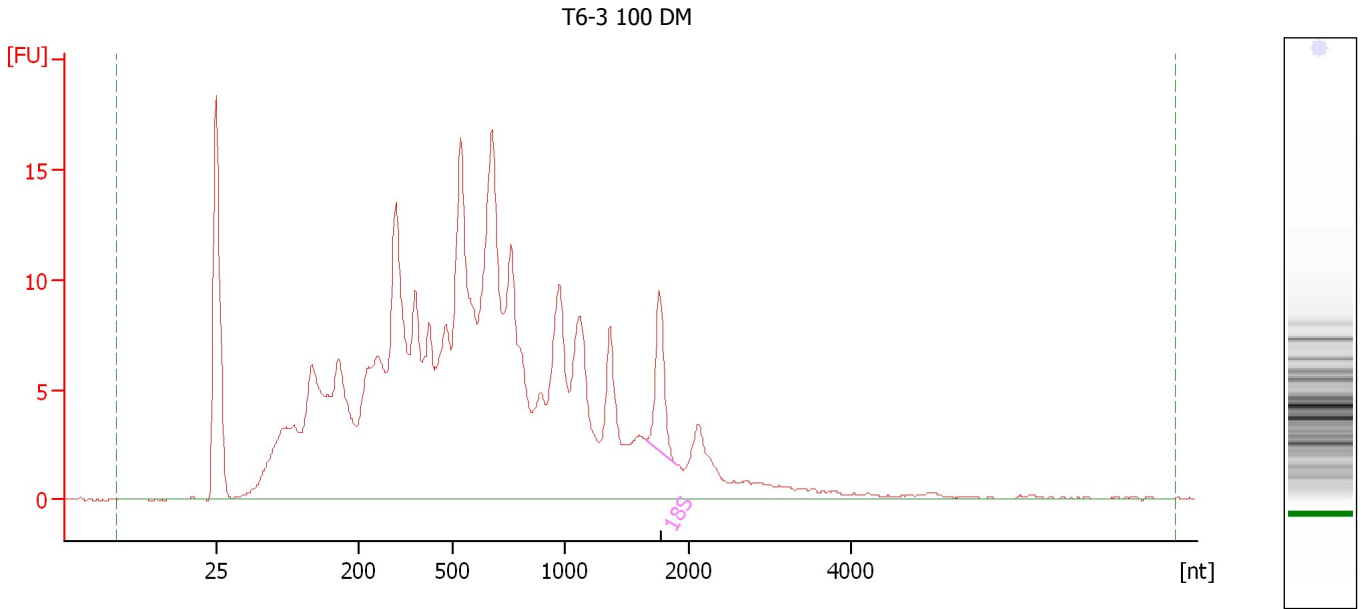
**Fragment table for sample 7 : T6-2 100 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,055	1,260	3.7	1.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : T6-3 100 DM**

RNA Area:	354.7	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	308 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]:	0.0	Result Flagging Label:	RIN: 3.20

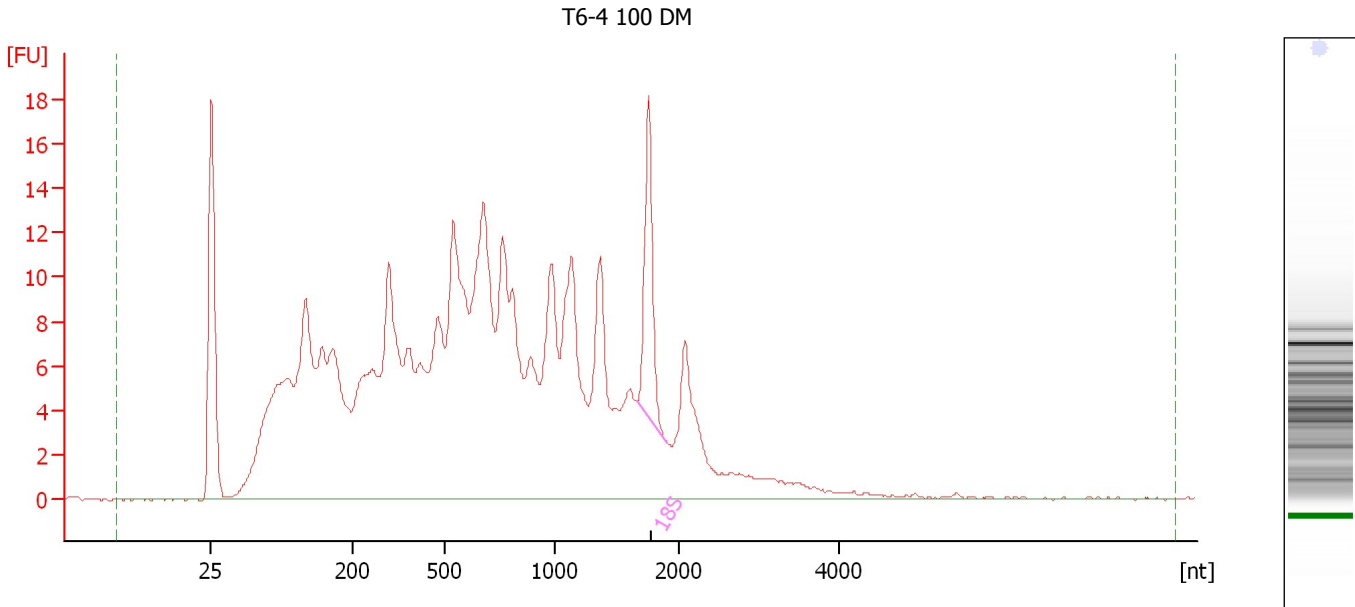
**Fragment table for sample 8 : T6-3 100 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,656	1,906	7.2	2.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : T6-4 100 DM**

RNA Area:	408.5	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	355 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]:	0.0	Result Flagging Label:	RIN: 4.20

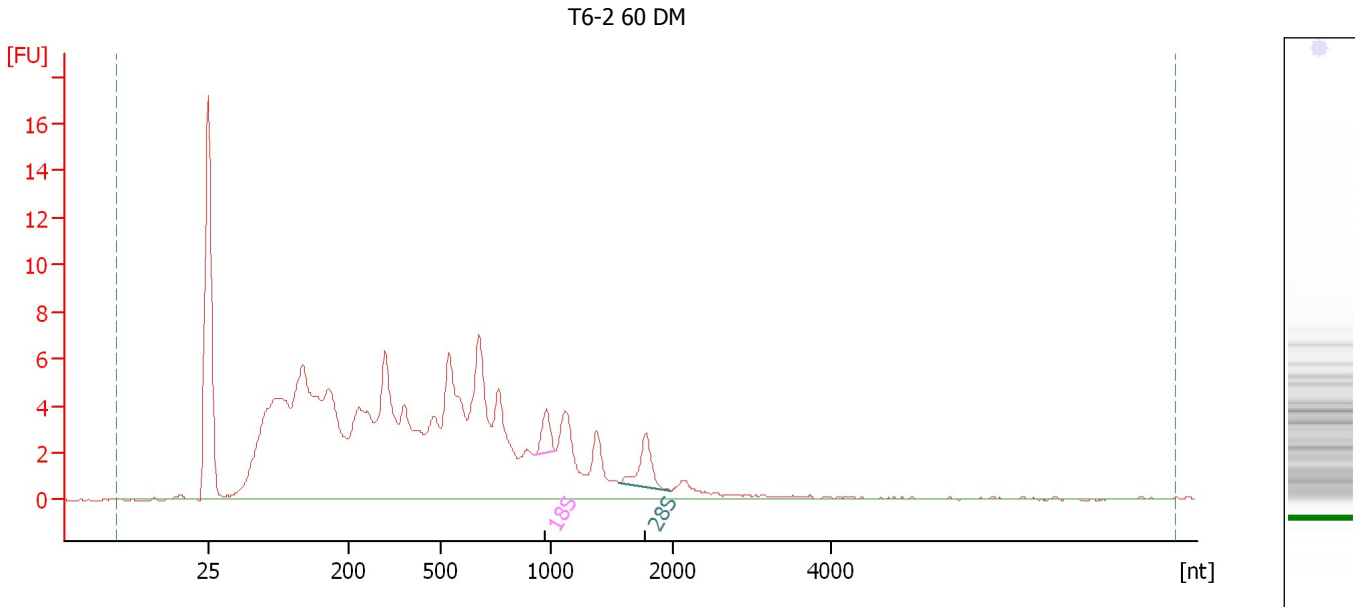
**Fragment table for sample 9 : T6-4 100 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,657	1,910	13.6	3.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : T6-2 60 DM**

RNA Area: 187.5                      RNA Integrity Number (RIN): 3 (B.02.08)  
RNA Concentration: 163 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN:3

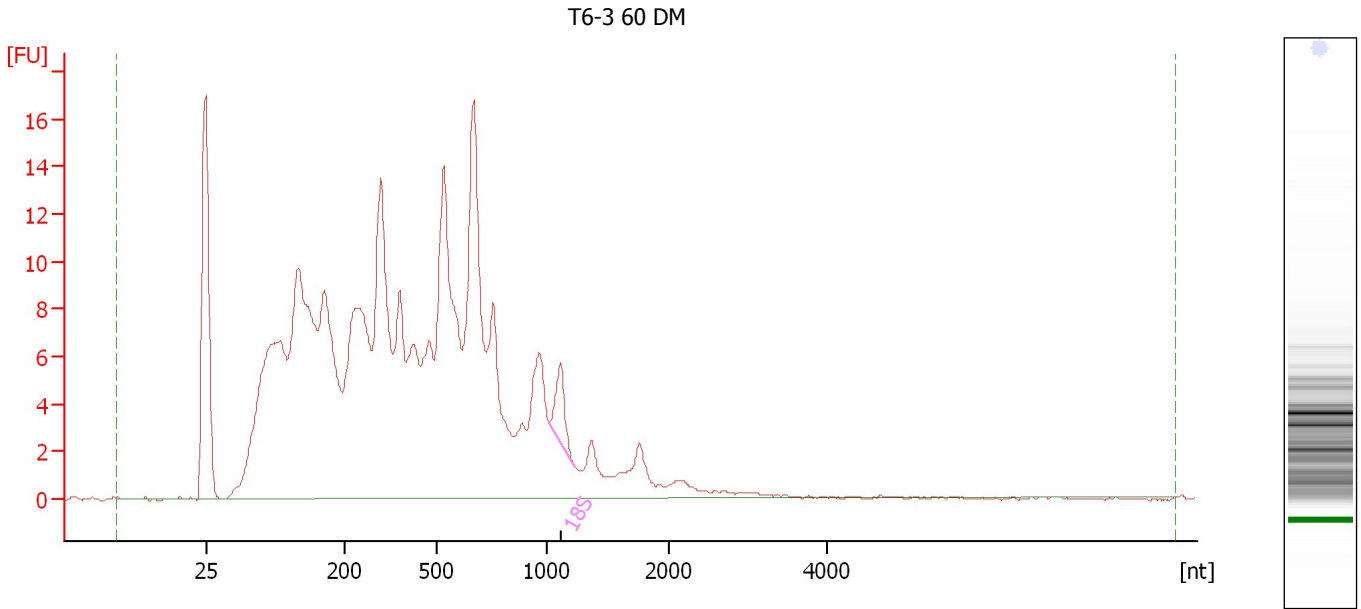
**Fragment table for sample 10 : T6-2 60 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	930	1,040	2.1	1.1
28S	1,565	1,994	3.3	1.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : T6-3 60 DM**

RNA Area:	326.6	RNA Integrity Number (RIN):	2.7 (B.02.08)
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]:	0.0	Result Flagging Label:	RIN: 2.70

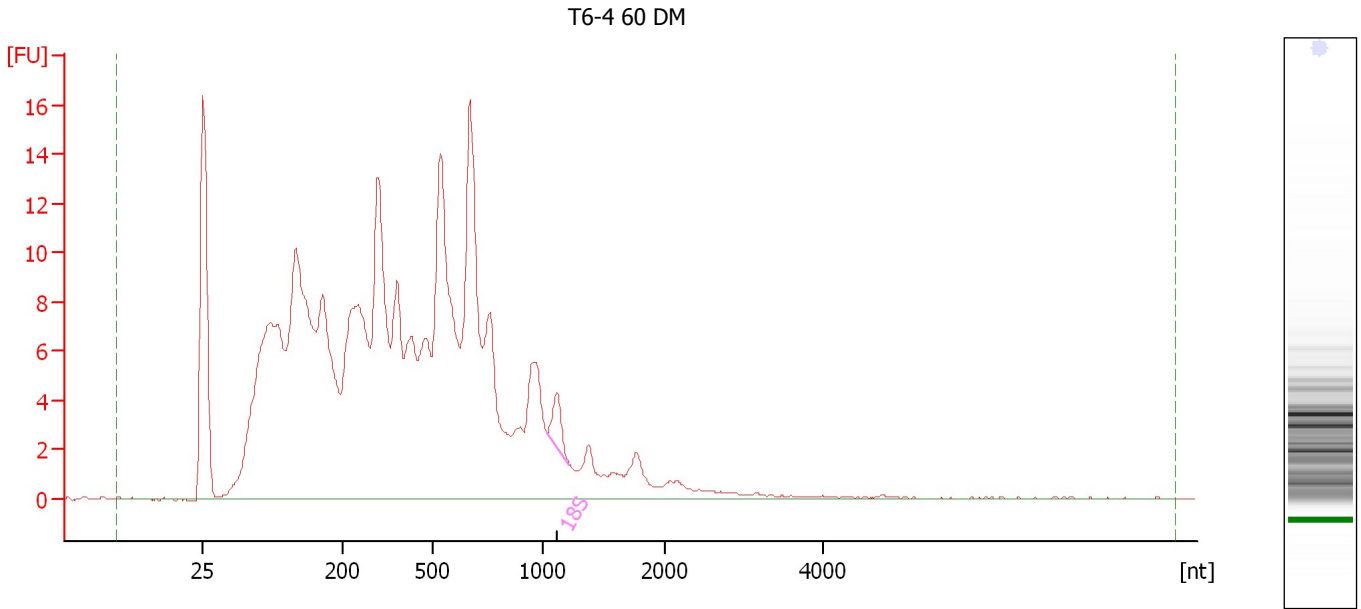
**Fragment table for sample 11 : T6-3 60 DM**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,026	1,228	3.9	1.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : T6-4 60 DM**

RNA Area: 324.8                      RNA Integrity Number (RIN): 2.5 (B.02.08)  
RNA Concentration: 282 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0                      Result Flagging Label: RIN: 2.50

**Fragment table for sample 12 : T6-4 60 DM**

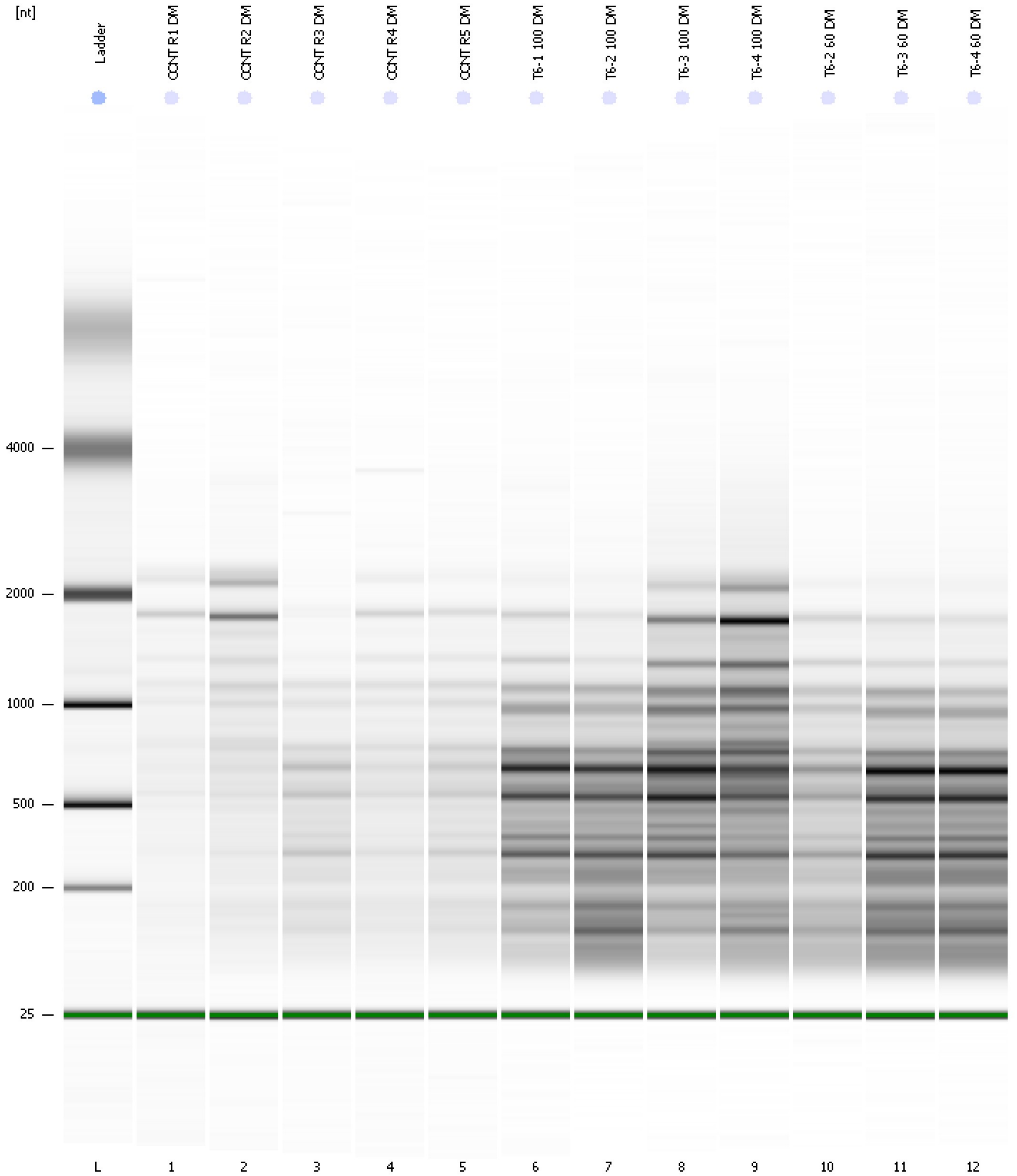
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,038	1,214	2.6	0.8



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Gel Image**

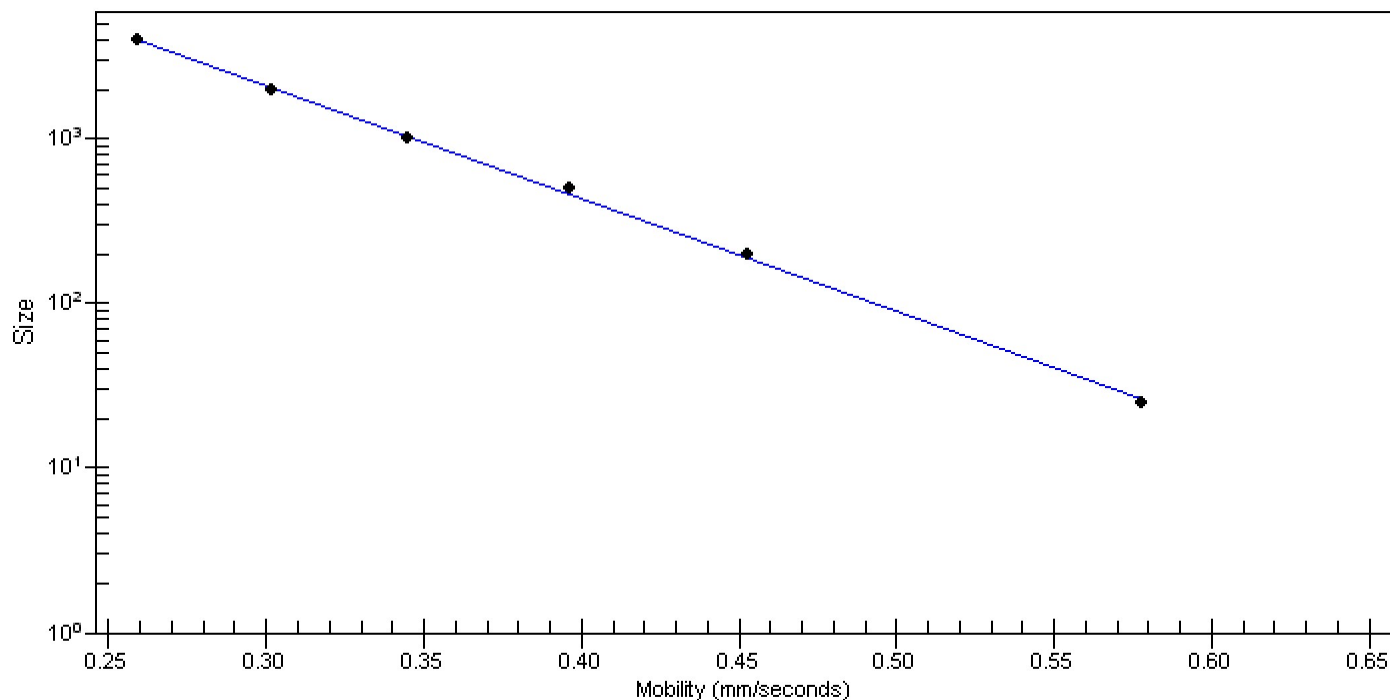


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
Modified: 10/24/2019 4:36:09 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-24\2019-10-24\_004.xad

Created: 10/24/2019 4:13:06 PM  
 Modified: 10/24/2019 4:36:09 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		10/24/2019 4:36:08 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\2019-10-24\2019-10-24_004.xad)		Instrument	Run		10/24/2019 4:13:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		10/24/2019 4:13:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/24/2019 4:13:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/24/2019 4:13:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		10/24/2019 4:13:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/24/2019 4:13:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/24/2019 4:13:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1