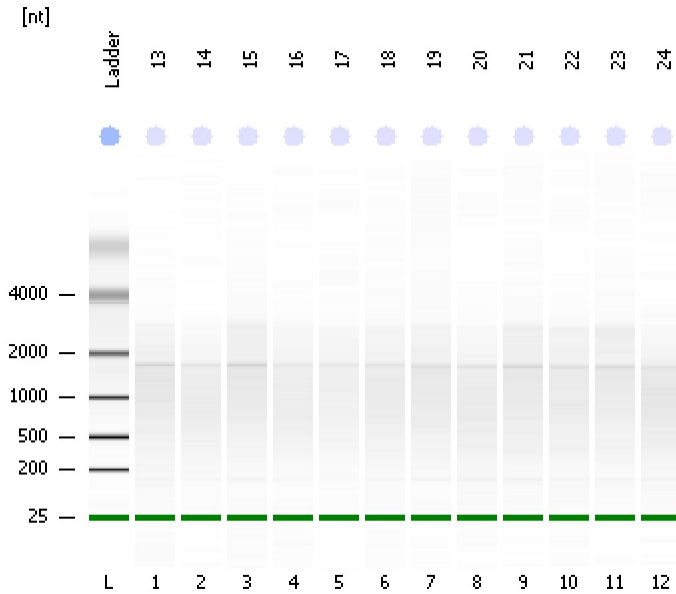


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 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)

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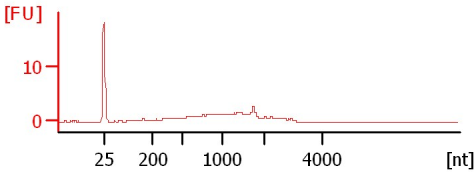
Chip Information:

Chip Lot #:

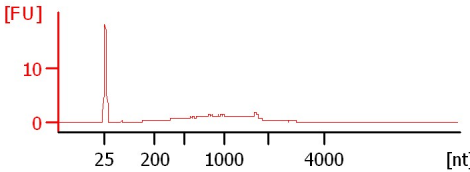
Reagent Kit Lot #:

Chip Comments:

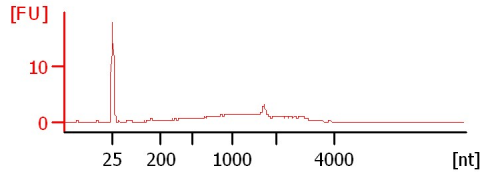
**13**  
HiSeq\_1748  
RIN: 4.40



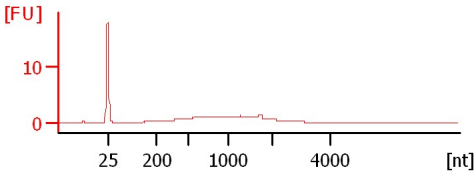
**14**  
HiSeq\_1748  
RIN: 4.10



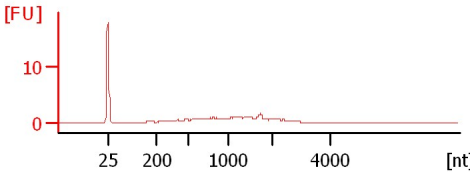
**15**  
HiSeq\_1748  
RIN: 4.70



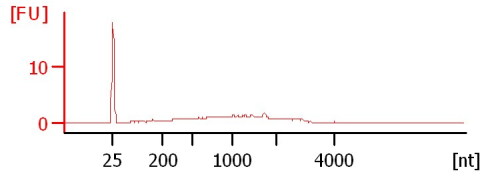
**16**  
HiSeq\_1748  
RIN: 1.10



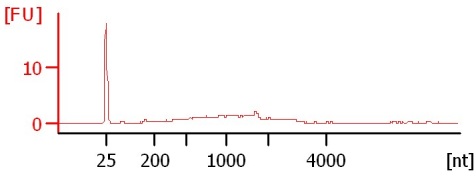
**17**  
HiSeq\_1748  
RIN: 4.10



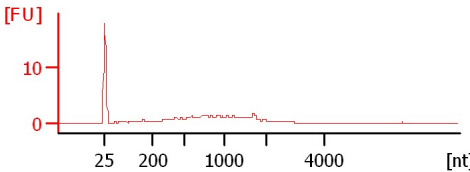
**18**  
HiSeq\_1748  
RIN: 3.60



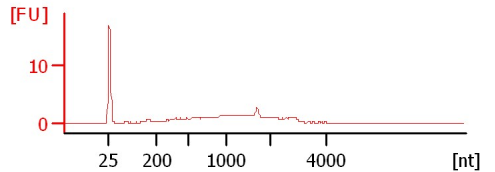
**19**  
HiSeq\_1748  
RIN: 3.70



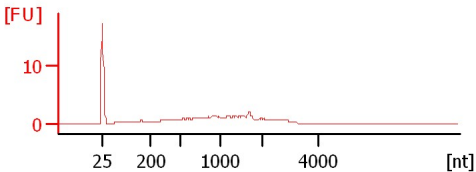
**20**  
HiSeq\_1748  
RIN: 4



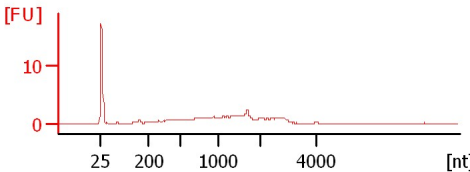
**21**  
HiSeq\_1748  
RIN: 4



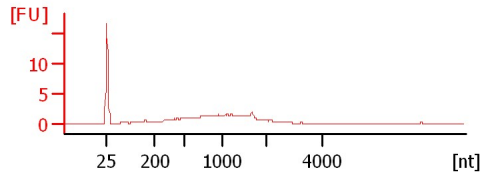
**22**  
HiSeq\_1748  
RIN: 3.80



**23**  
HiSeq\_1748  
RIN: 4.10



**24**  
HiSeq\_1748  
RIN: 3.60



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
13	HiSeq_1748	✓	RIN: 4.40	
14	HiSeq_1748	✓	RIN: 4.10	
15	HiSeq_1748	✓	RIN: 4.70	
16	HiSeq_1748	✓	RIN: 1.10	
17	HiSeq_1748	✓	RIN: 4.10	
18	HiSeq_1748	✓	RIN: 3.60	
19	HiSeq_1748	✓	RIN: 3.70	
20	HiSeq_1748	✓	RIN:4	
21	HiSeq_1748	✓	RIN:4	
22	HiSeq_1748	✓	RIN: 3.80	
23	HiSeq_1748	✓	RIN: 4.10	
24	HiSeq_1748	✓	RIN: 3.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 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

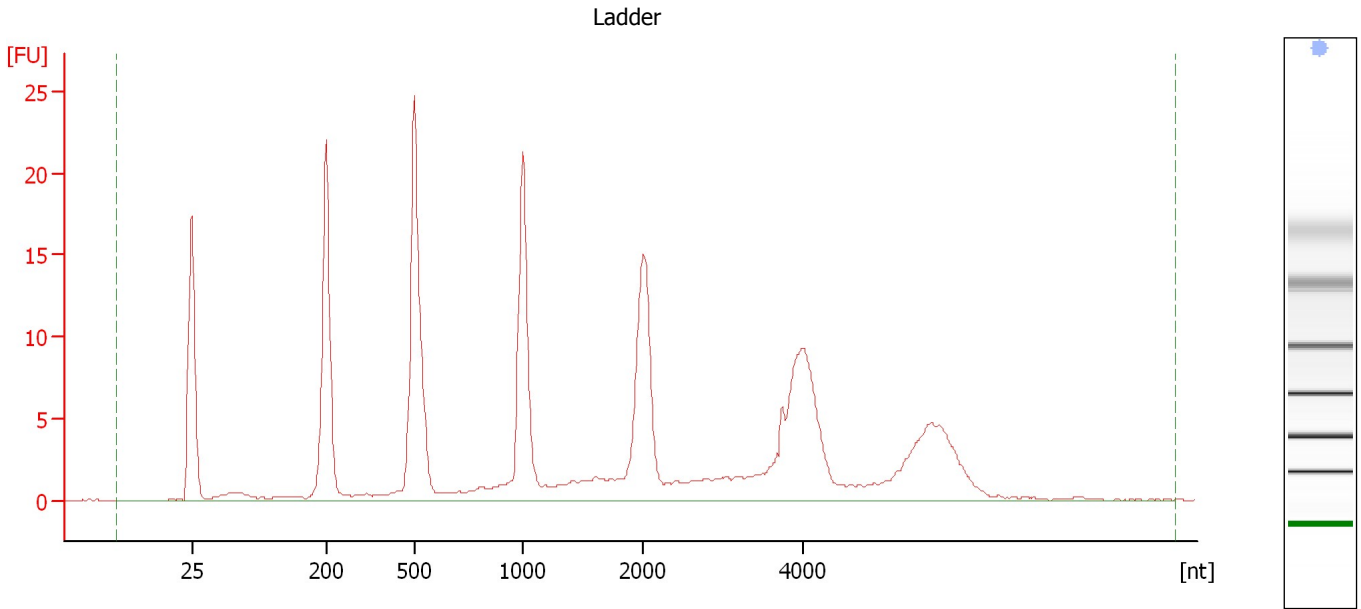
### Ladder

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\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary**



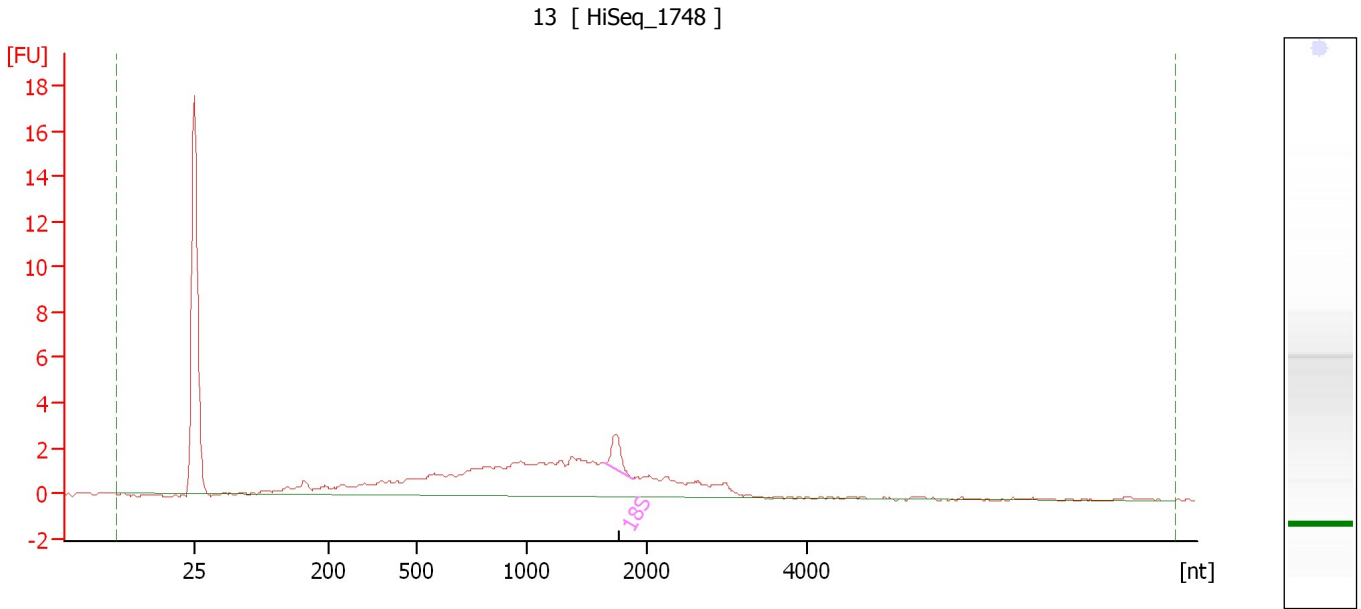
**Overall Results for Ladder**

RNA Area:	220.0	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: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 13**

RNA Area:	53.1	RNA Integrity Number (RIN):	4.4 (B.02.08)
RNA Concentration:	36 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: 4.40

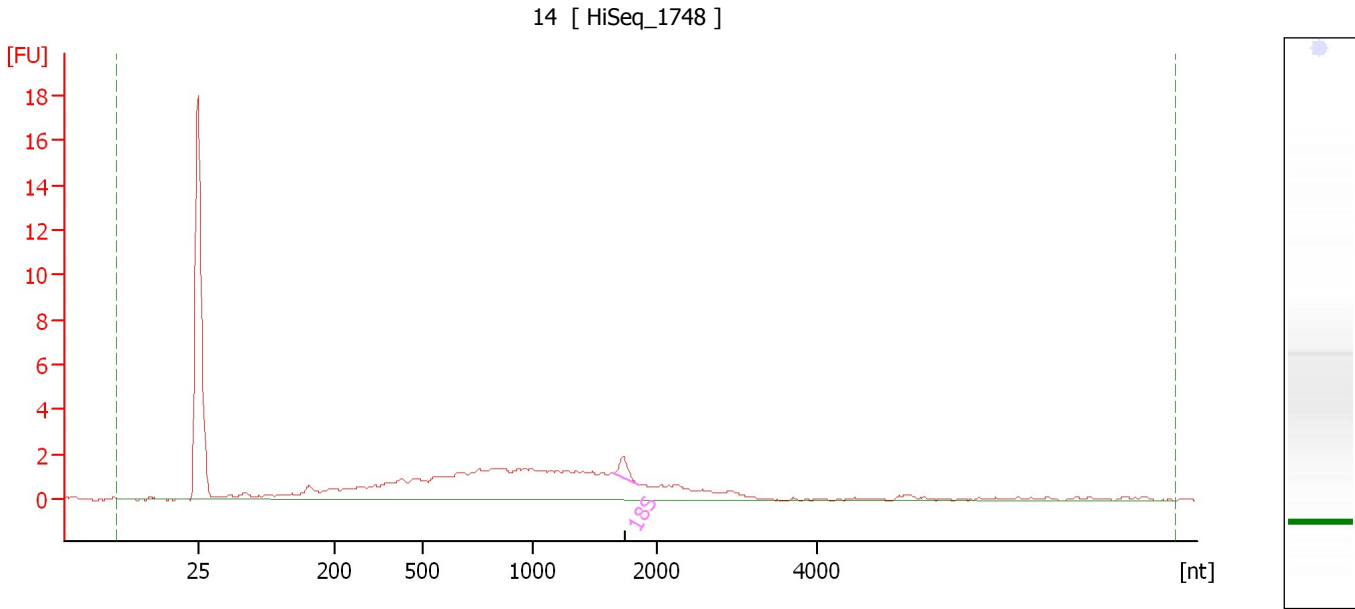
**Fragment table for sample 1 : 13**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,648	1,869	1.8	3.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 14**

RNA Area:	49.5	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	34 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: 4.10

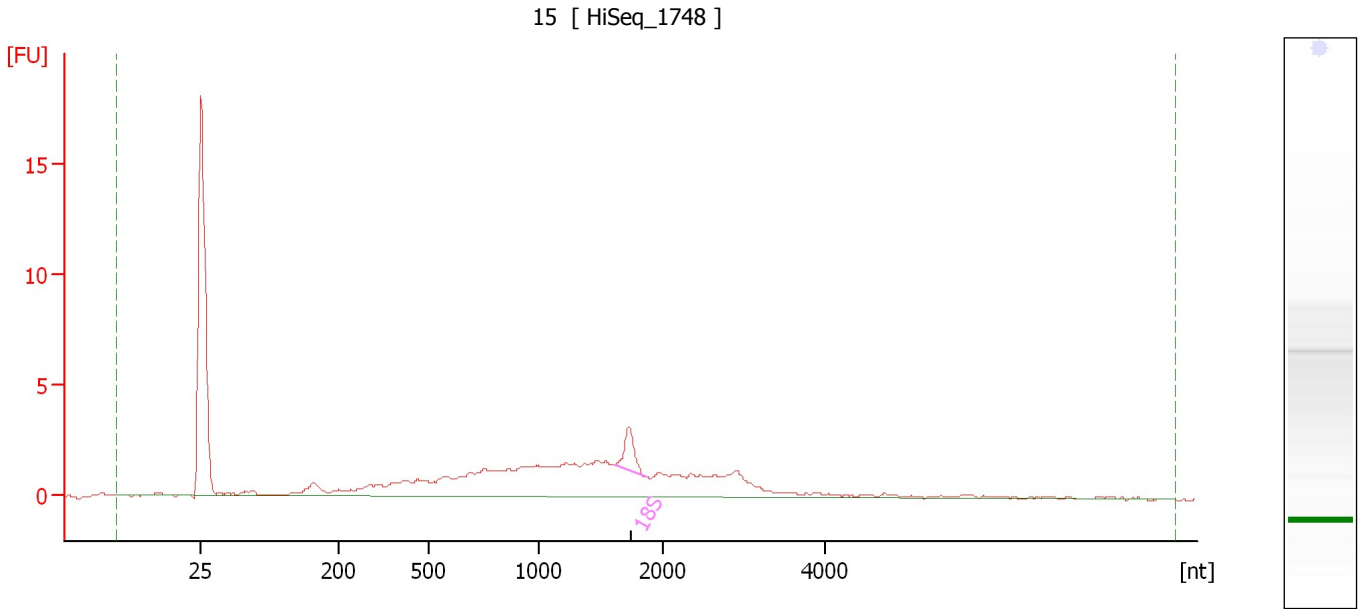
**Fragment table for sample 2 : 14**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,654	1,864	1.0	2.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 15**

RNA Area:	58.4	RNA Integrity Number (RIN):	4.7 (B.02.08)
RNA Concentration:	40 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: 4.70

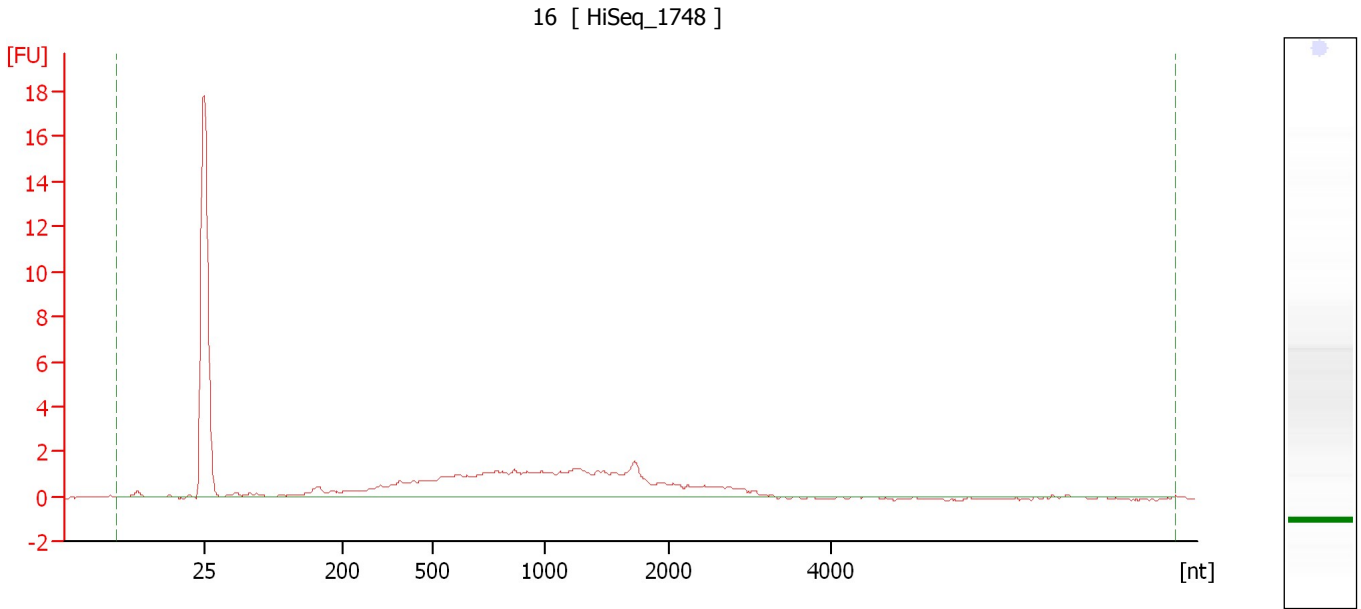
**Fragment table for sample 3 : 15**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,867	2.4	4.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 16**

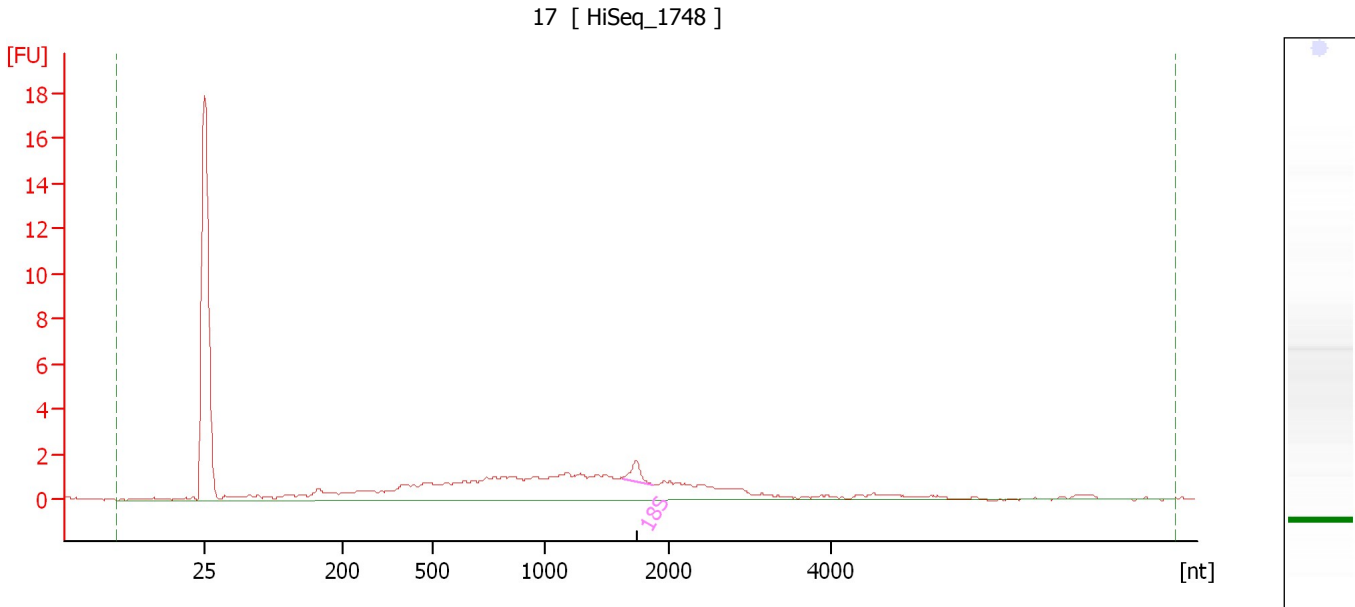
RNA Area:	39.6	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	27 ng/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 17**

RNA Area:	42.8	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	29 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: 4.10

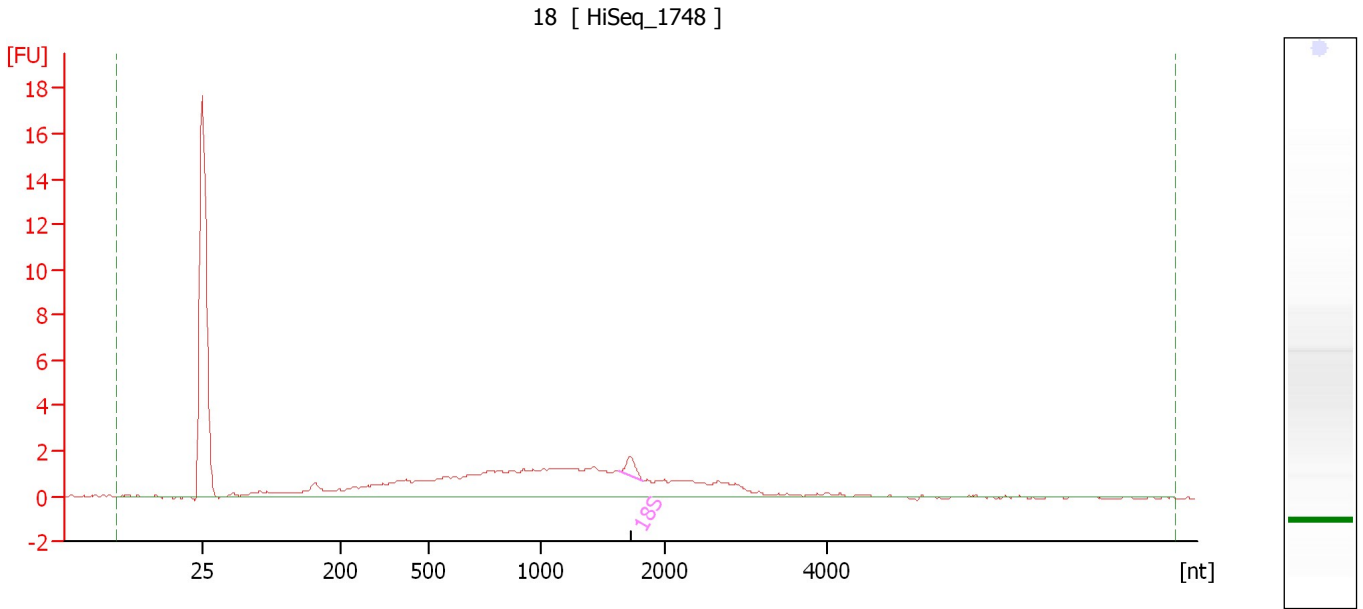
**Fragment table for sample 5 : 17**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,870	1.1	2.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 18**

RNA Area:	50.6	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	35 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: 3.60

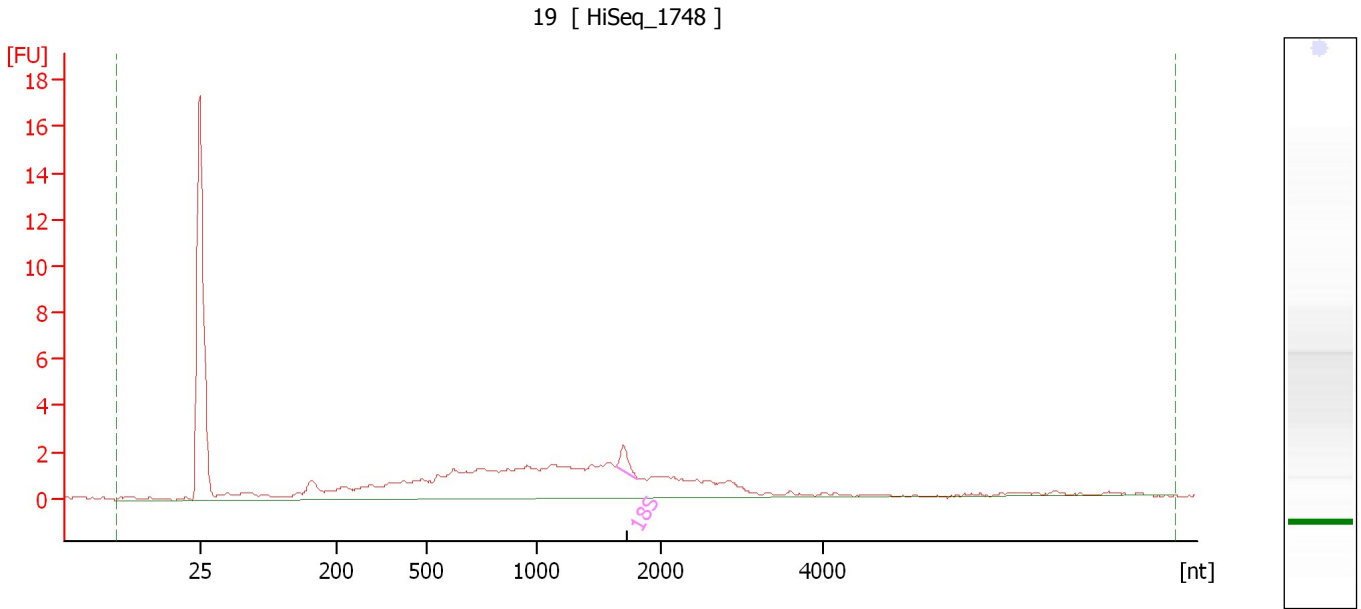
**Fragment table for sample 6 : 18**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	1,833	0.9	1.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 19**

RNA Area:	58.9	RNA Integrity Number (RIN):	3.7 (B.02.08)
RNA Concentration:	40 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: 3.70

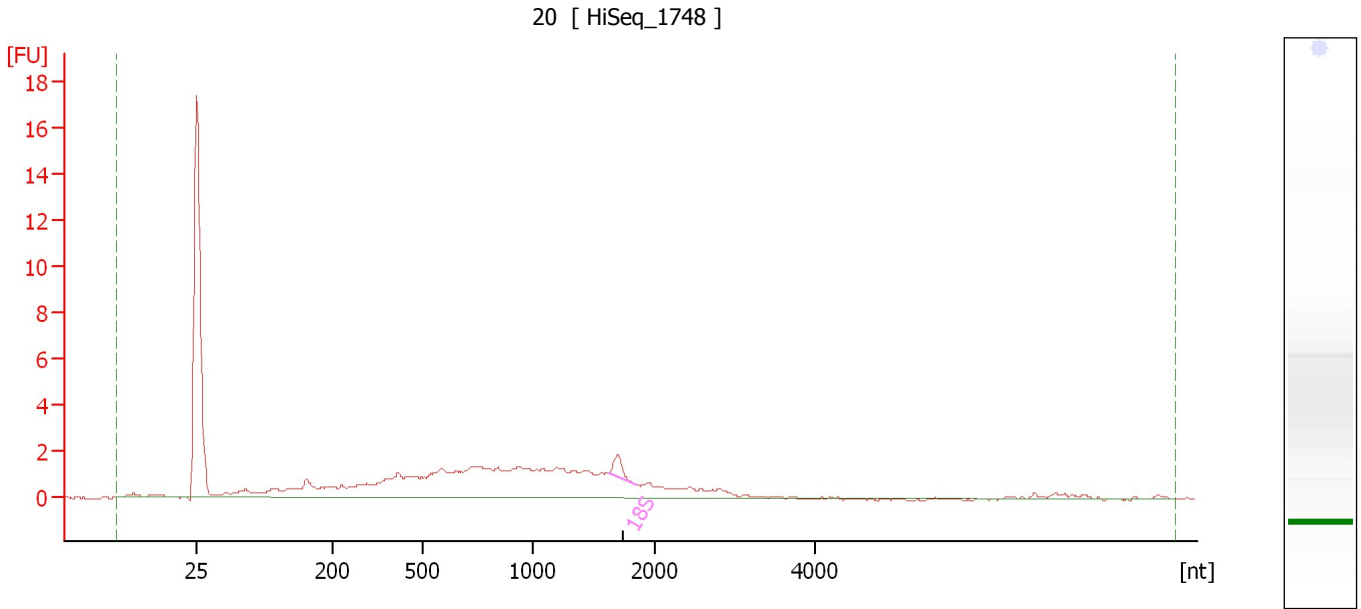
**Fragment table for sample 7 : 19**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	1,814	1.1	1.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 20**

RNA Area:	48.6	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	33 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

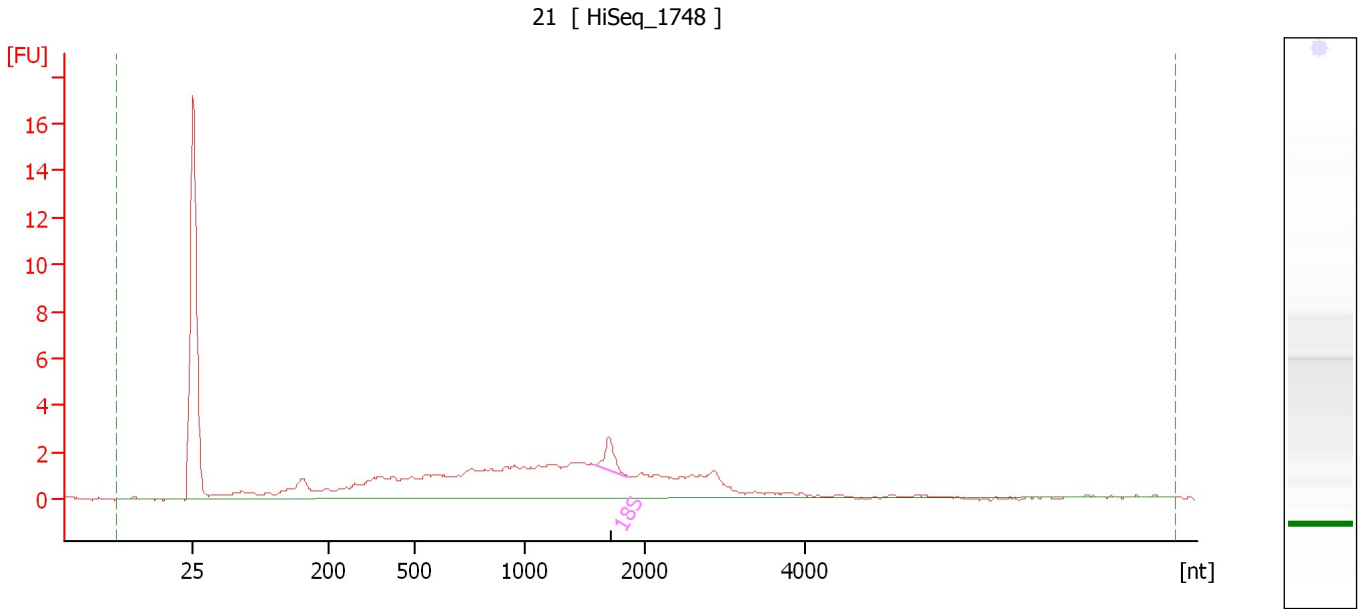
**Fragment table for sample 8 : 20**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,854	1.0	2.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 21**

RNA Area:	61.5	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	42 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

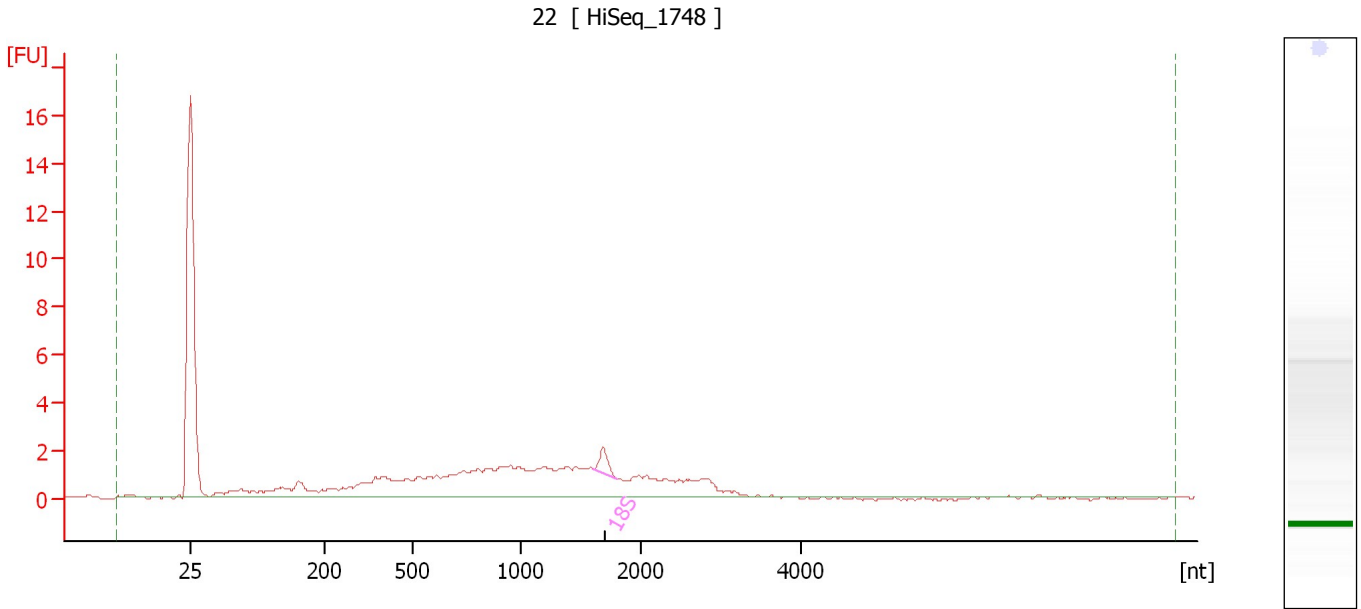
**Fragment table for sample 9 : 21**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,576	1,850	1.7	2.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 22**

RNA Area:	50.9	RNA Integrity Number (RIN):	3.8 (B.02.08)
RNA Concentration:	35 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: 3.80

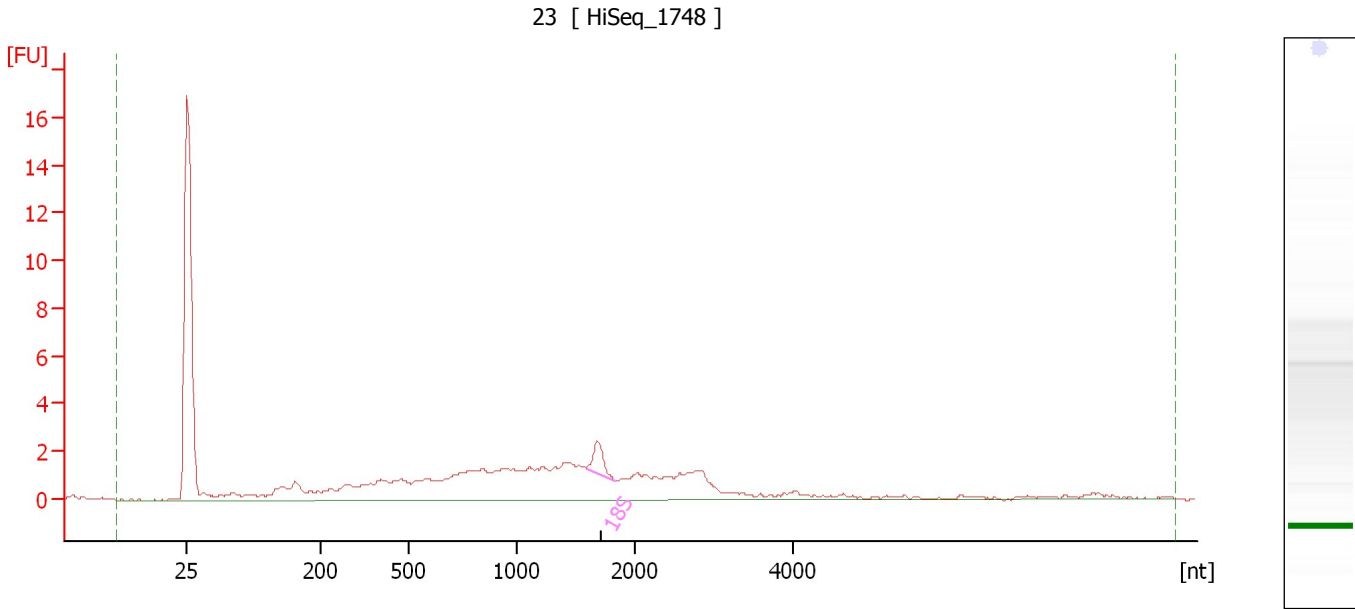
**Fragment table for sample 10 : 22**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,795	1.2	2.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 23**

RNA Area:	58.5	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	40 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: 4.10

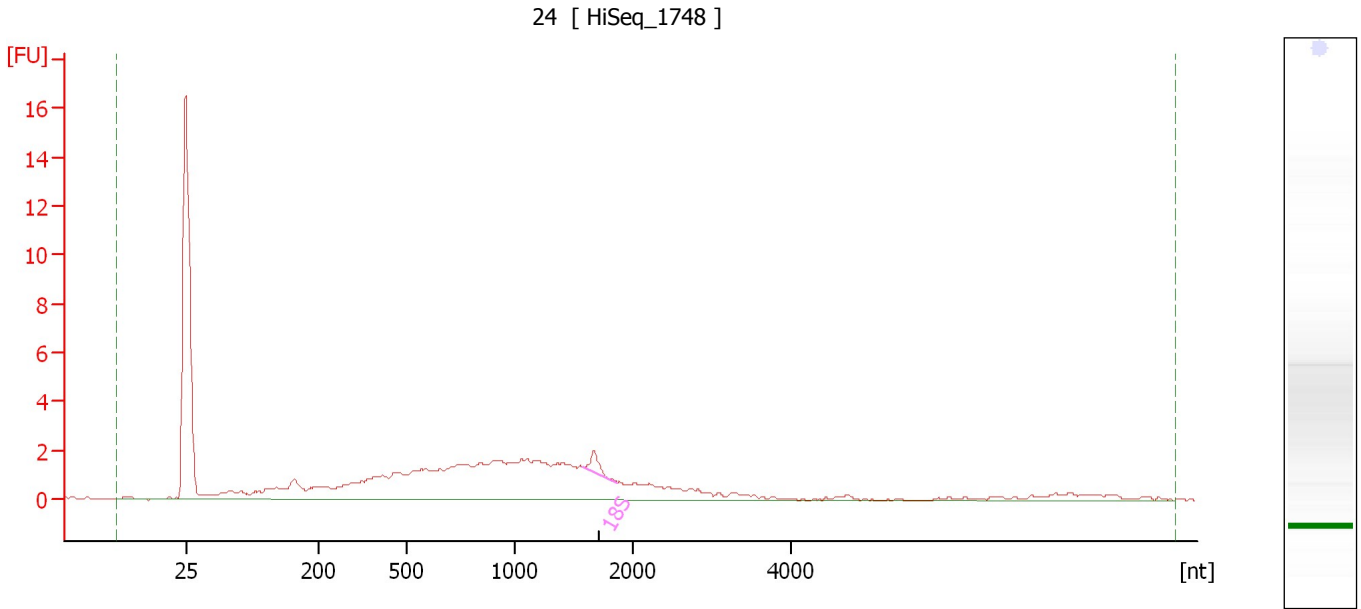
**Fragment table for sample 11 : 23**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,827	1.7	2.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 24**

RNA Area:	62.4	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	43 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: 3.60

**Fragment table for sample 12 : 24**

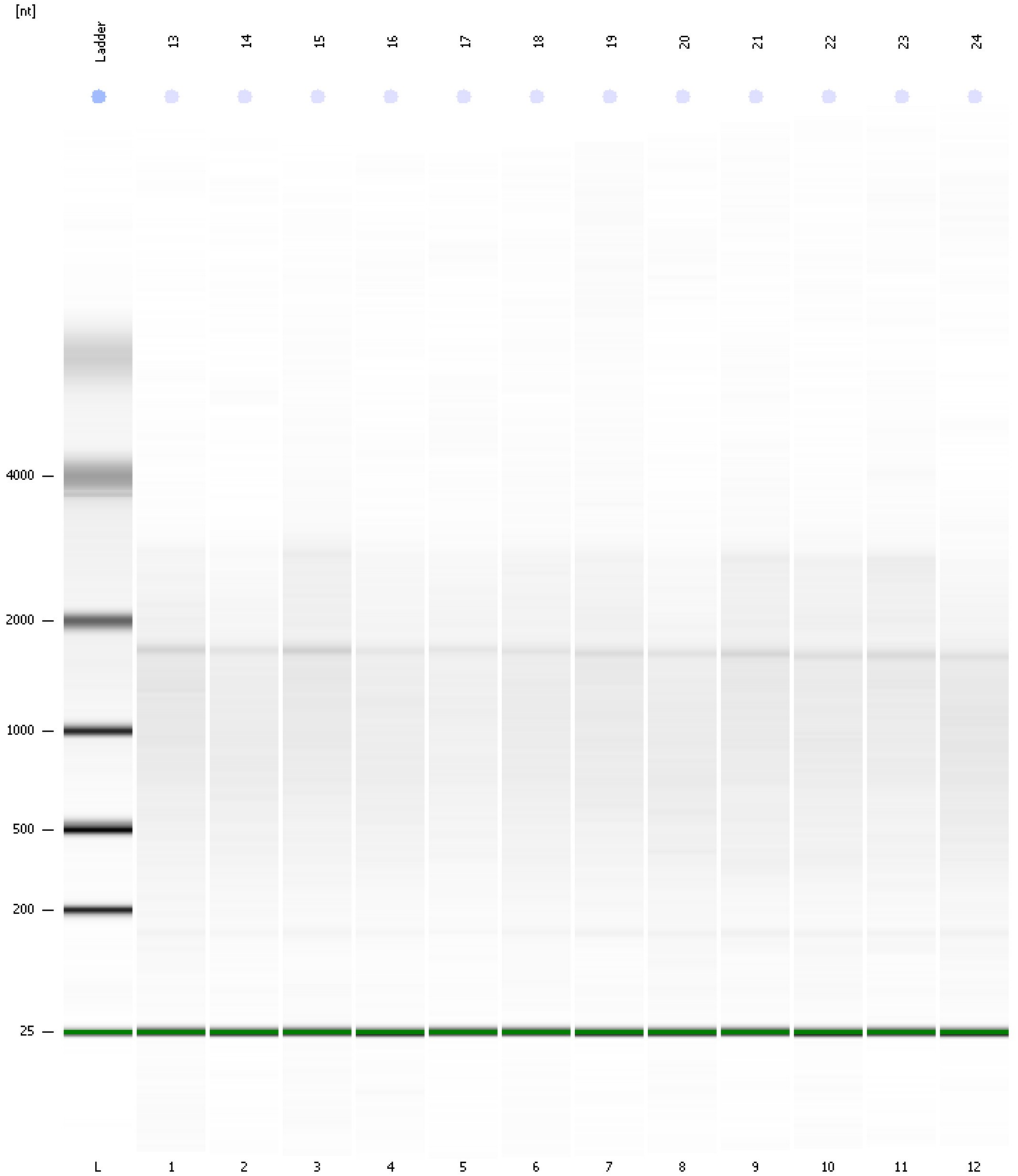
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,575	1,862	1.0	1.5



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Gel Image**

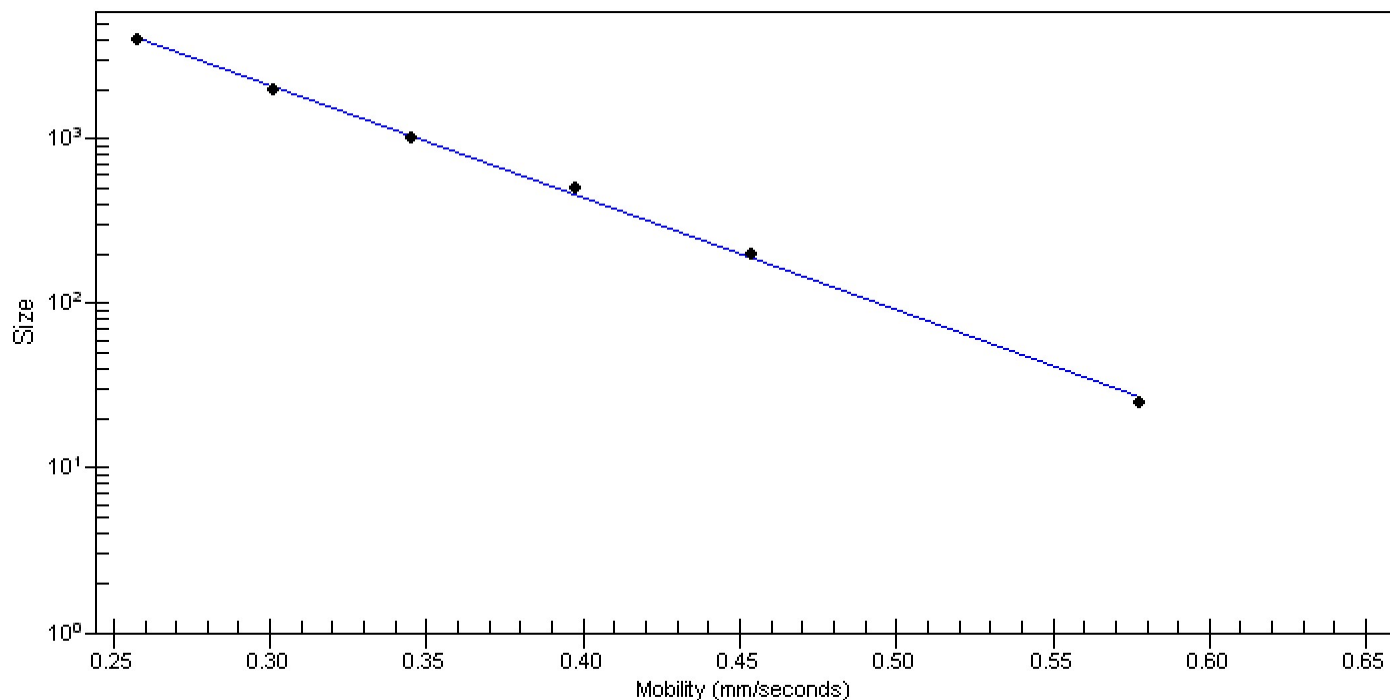


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
Modified: 3/22/2019 4:43:34 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-03-22\2019-03-22\_001.xad

Created: 3/22/2019 3:11:25 PM  
 Modified: 3/22/2019 4:43:34 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		3/22/2019 3:35:13 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\2019-03-22\2019-03-22_001.xad)		Instrument	Run		3/22/2019 3:11:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		3/22/2019 3:11:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/22/2019 3:11:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/22/2019 3:11:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		3/22/2019 3:11:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/22/2019 3:11:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/22/2019 3:11:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1