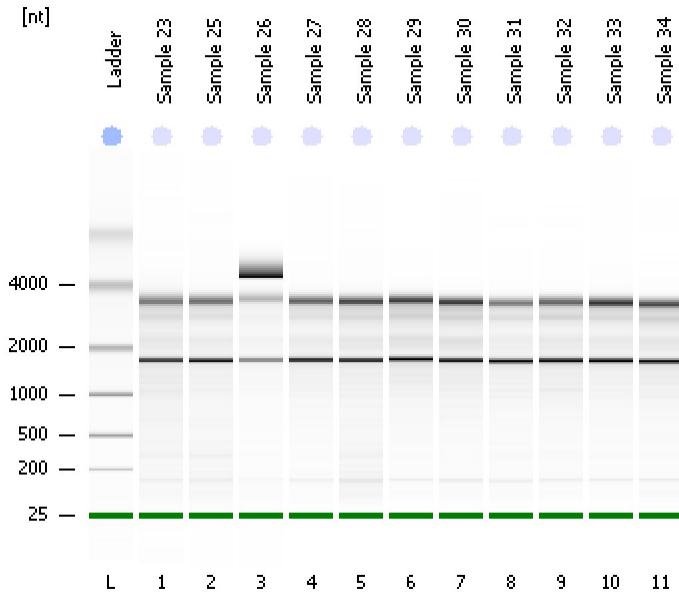


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

Electrophoresis File Run Summary



Instrument Information:

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

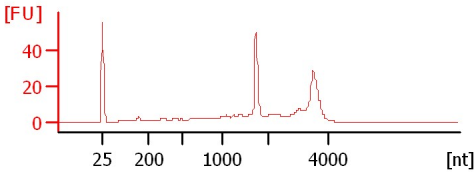
Assay Information:

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

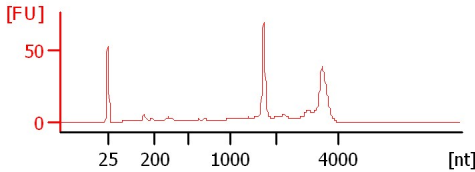
Chip Information:

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

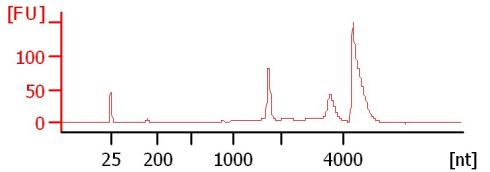
**Sample 23**  
HiSeq1978  
RIN: 7.90



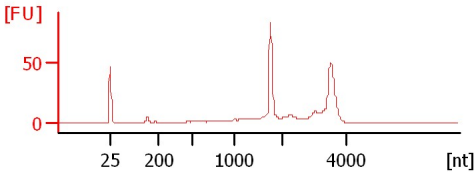
**Sample 25**  
HiSeq1978  
RIN: 8.30



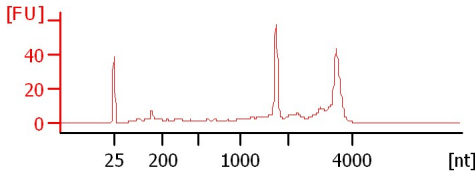
**Sample 26**  
HiSeq1978  
RIN: 7.80



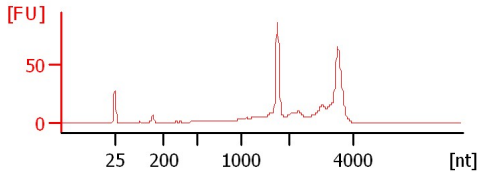
**Sample 27**  
HiSeq1978  
RIN: 8.60



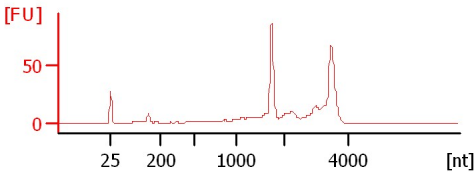
**Sample 28**  
HiSeq1978  
RIN: 8.10



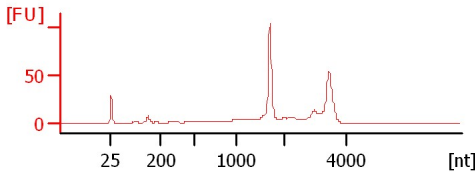
**Sample 29**  
HiSeq1978  
RIN: 8.30



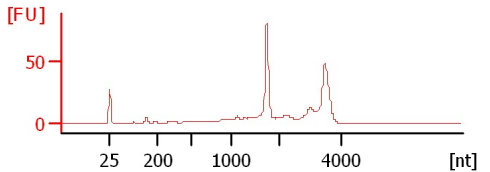
**Sample 30**  
HiSeq1978  
RIN: 8.20



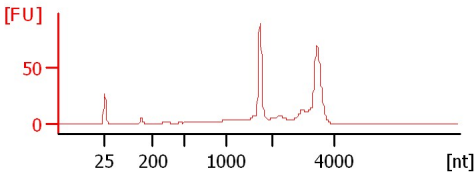
**Sample 31**  
HiSeq1978  
RIN: 8.20



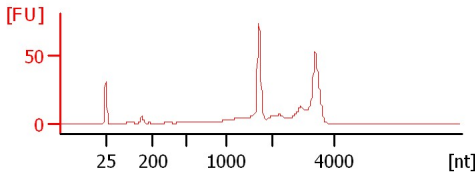
**Sample 32**  
HiSeq1978  
RIN: 8.10



**Sample 33**  
HiSeq1978  
RIN: 8.70



**Sample 34**  
HiSeq1978  
RIN: 8.30



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 23	HiSeq1978	✓	RIN: 7.90	
Sample 25	HiSeq1978	✓	RIN: 8.30	
Sample 26	HiSeq1978	✓	RIN: 7.80	
Sample 27	HiSeq1978	✓	RIN: 8.60	
Sample 28	HiSeq1978	✓	RIN: 8.10	
Sample 29	HiSeq1978	✓	RIN: 8.30	
Sample 30	HiSeq1978	✓	RIN: 8.20	
Sample 31	HiSeq1978	✓	RIN: 8.20	
Sample 32	HiSeq1978	✓	RIN: 8.10	
Sample 33	HiSeq1978	✓	RIN: 8.70	
Sample 34	HiSeq1978	✓	RIN: 8.30	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**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/μl] : 1000  
Lower Marker Concentration [pg/μl] : 0  
Upper Marker Concentration [pg/μl] : 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

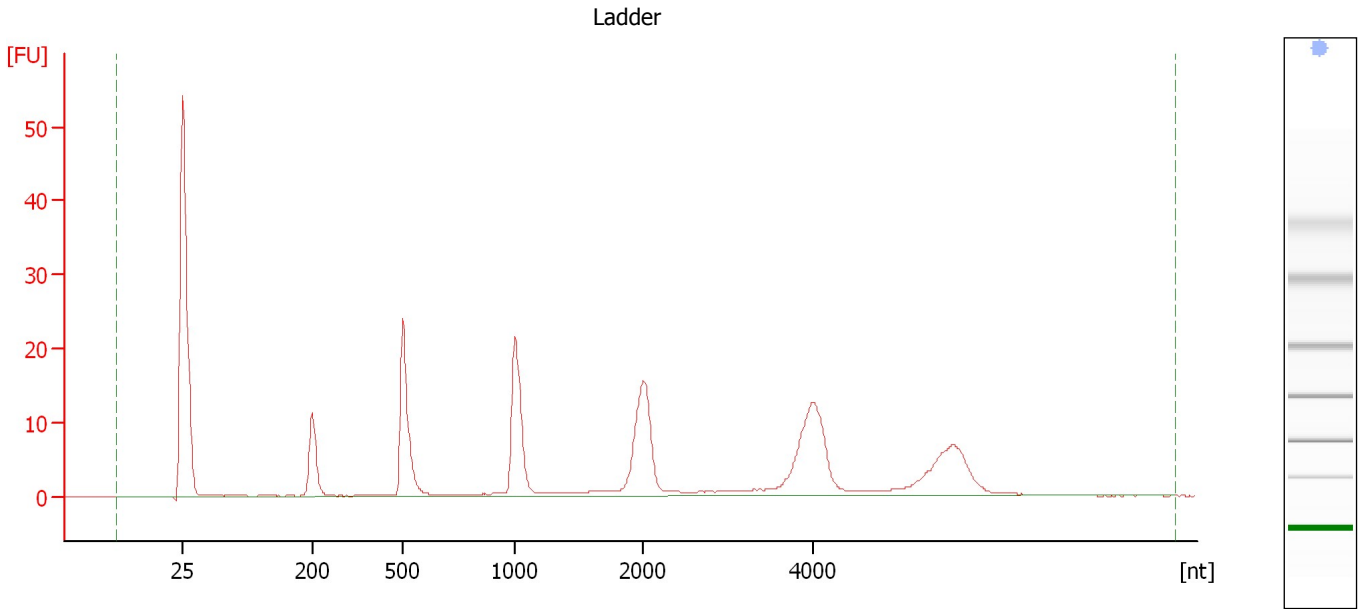
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary**



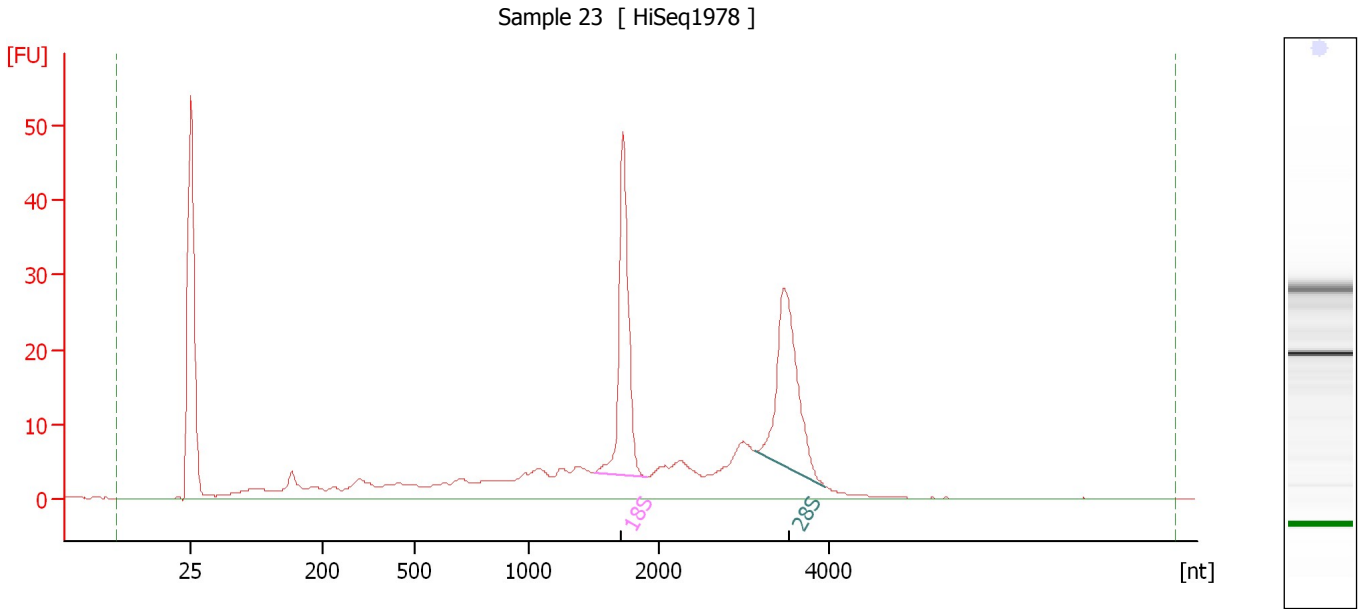
**Overall Results for Ladder**

RNA Area:	193.2	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

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
 Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 23**

RNA Area:	314.1	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	1,625 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]:	1.0	Result Flagging Label:	RIN: 7.90

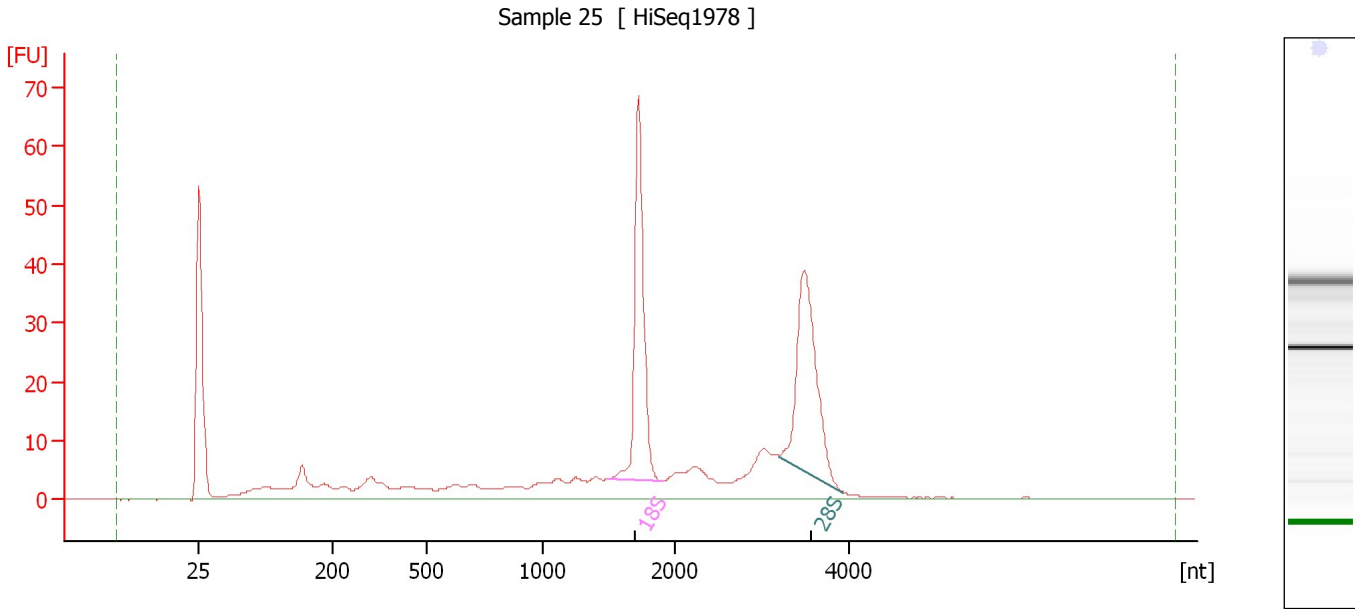
**Fragment table for sample 1 : Sample 23**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,518	1,912	54.0	17.2
28S	3,125	3,948	52.8	16.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 25**

RNA Area: 366.3                      RNA Integrity Number (RIN): 8.3 (B.02.08)  
RNA Concentration: 1,895 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.9                      Result Flagging Label: RIN: 8.30

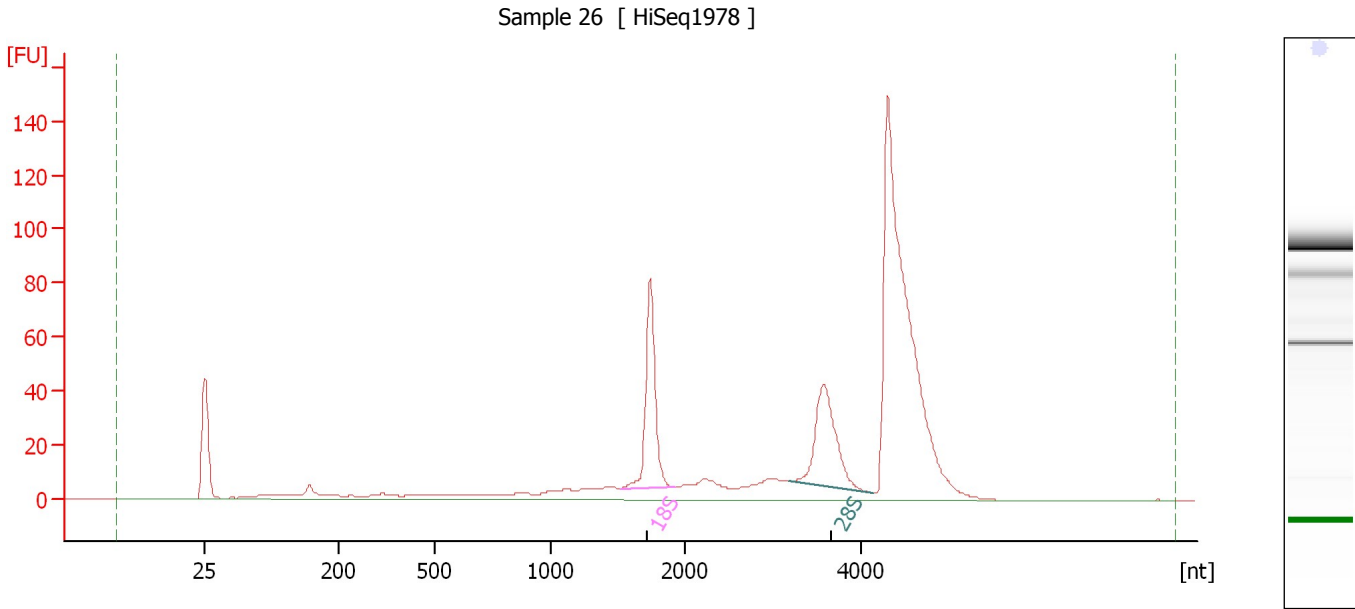
**Fragment table for sample 2 : Sample 25**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,497	1,900	72.4	19.8
28S	3,196	3,932	68.5	18.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 26**

RNA Area:	749.9	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	3,881 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]:	0.9	Result Flagging Label:	RIN: 7.80

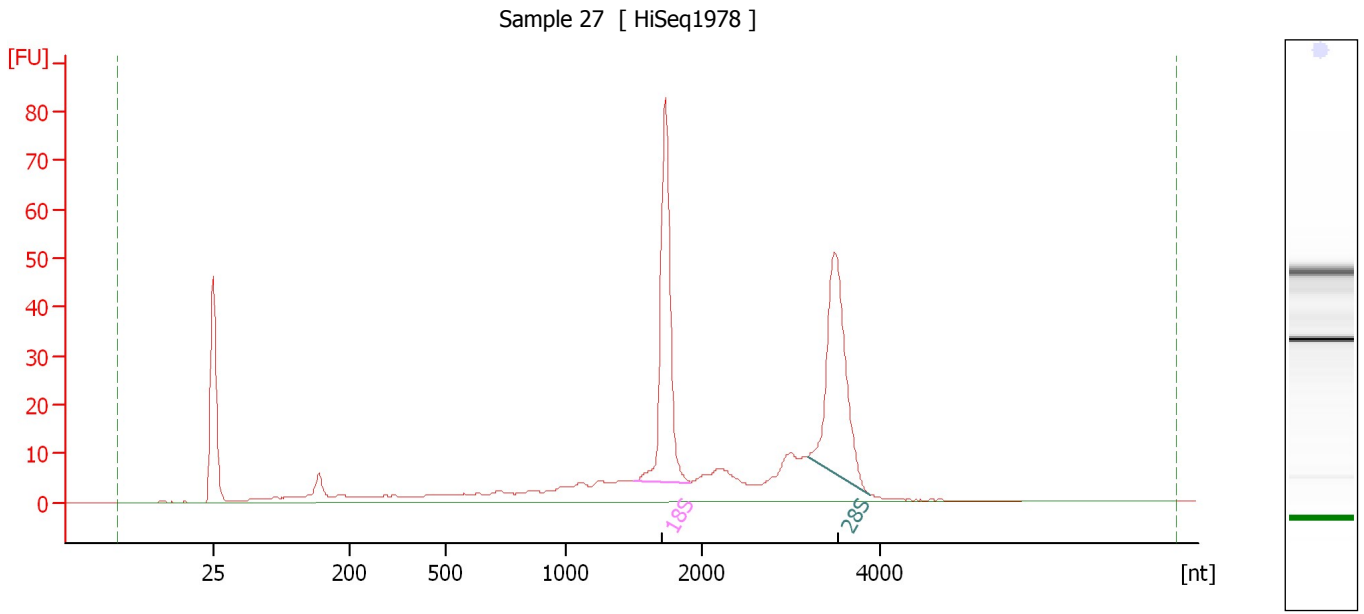
**Fragment table for sample 3 : Sample 26**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,512	1,919	90.3	12.0
28S	3,174	4,120	80.4	10.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 27**

RNA Area: 398.2                      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 2,060 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0                      Result Flagging Label: RIN: 8.60

**Fragment table for sample 4 : Sample 27**

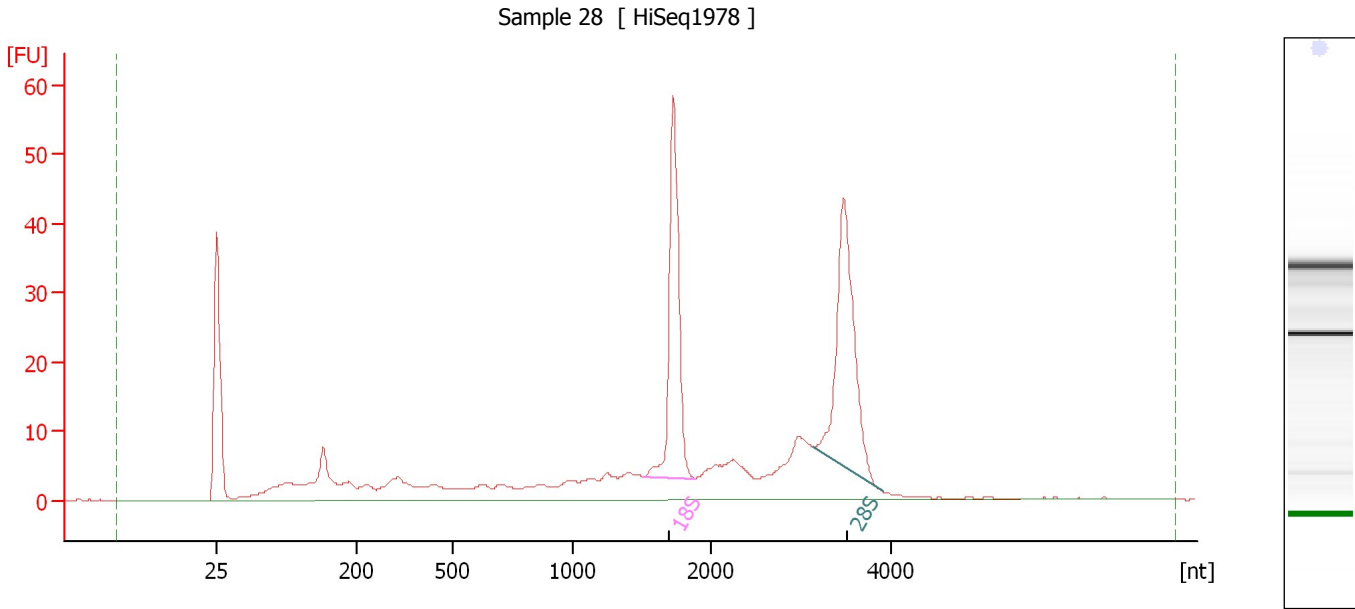
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,506	1,923	89.2	22.4
28S	3,185	3,890	85.0	21.3



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 28**

RNA Area: 361.0                      RNA Integrity Number (RIN): 8.1 (B.02.08)  
RNA Concentration: 1,868 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN: 8.10

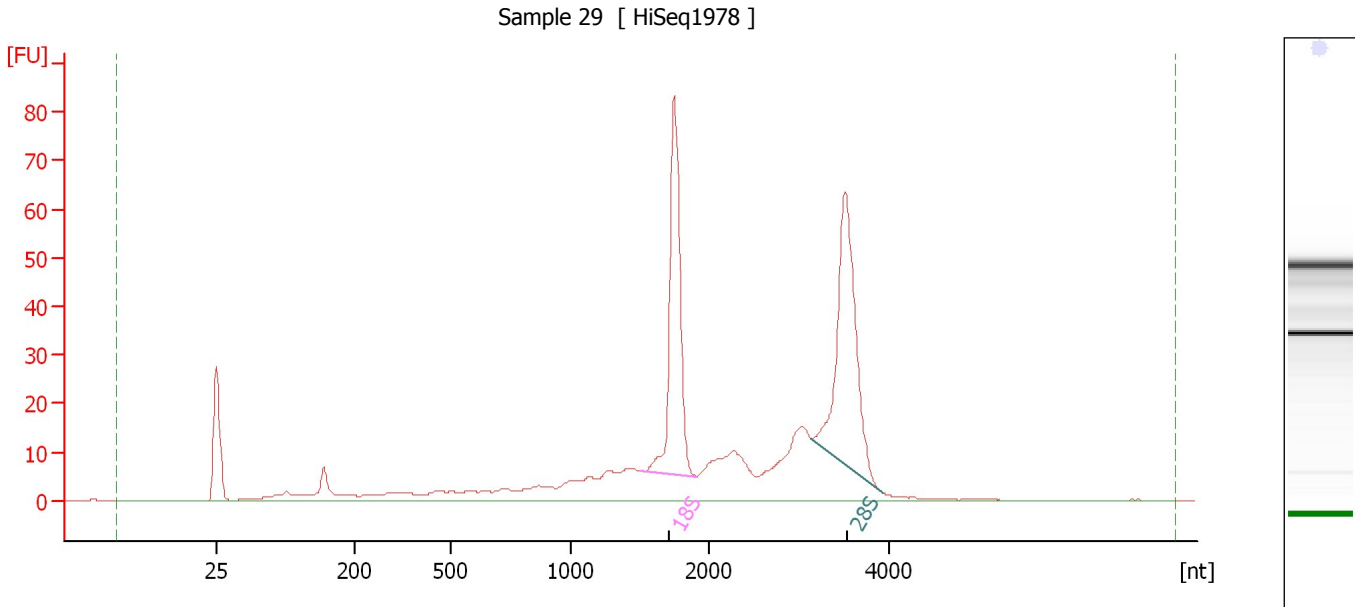
**Fragment table for sample 5 : Sample 28**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,505	1,887	60.9	16.9
28S	3,128	3,897	68.3	18.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
 Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Sample 29**

RNA Area:	503.8	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	2,607 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]:	1.1	Result Flagging Label:	RIN: 8.30

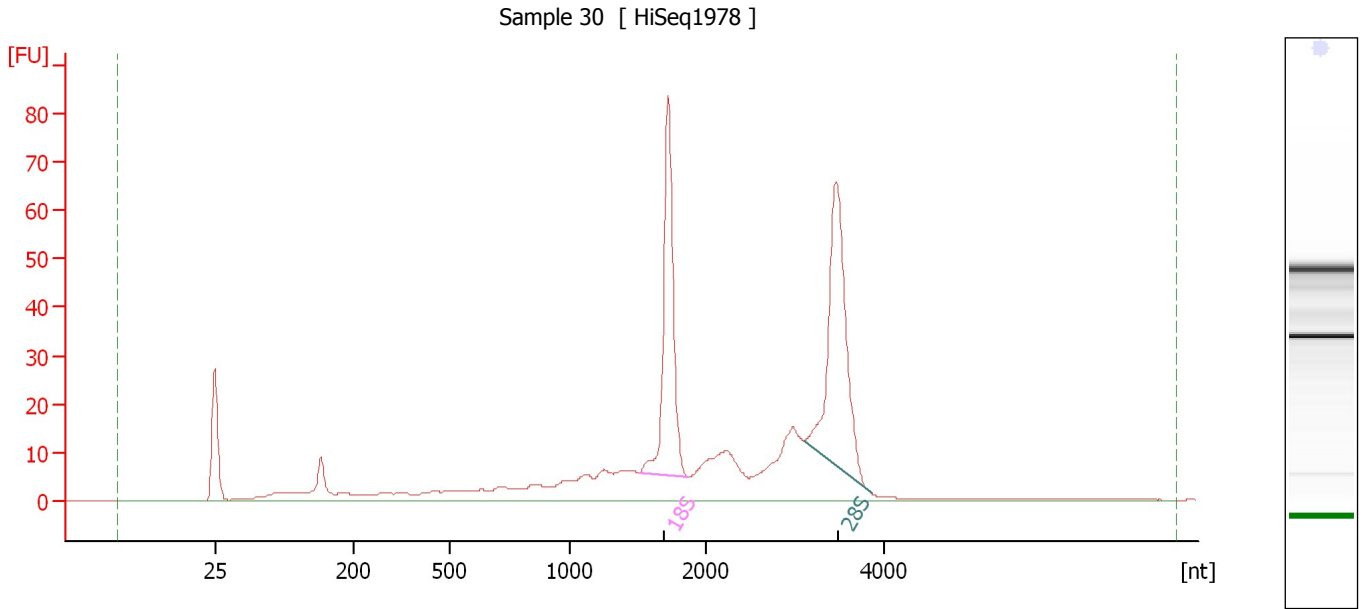
**Fragment table for sample 6 : Sample 29**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,512	1,909	94.0	18.7
28S	3,142	3,924	104.5	20.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 30**

RNA Area:	503.1	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	2,603 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]:	1.1	Result Flagging Label:	RIN: 8.20

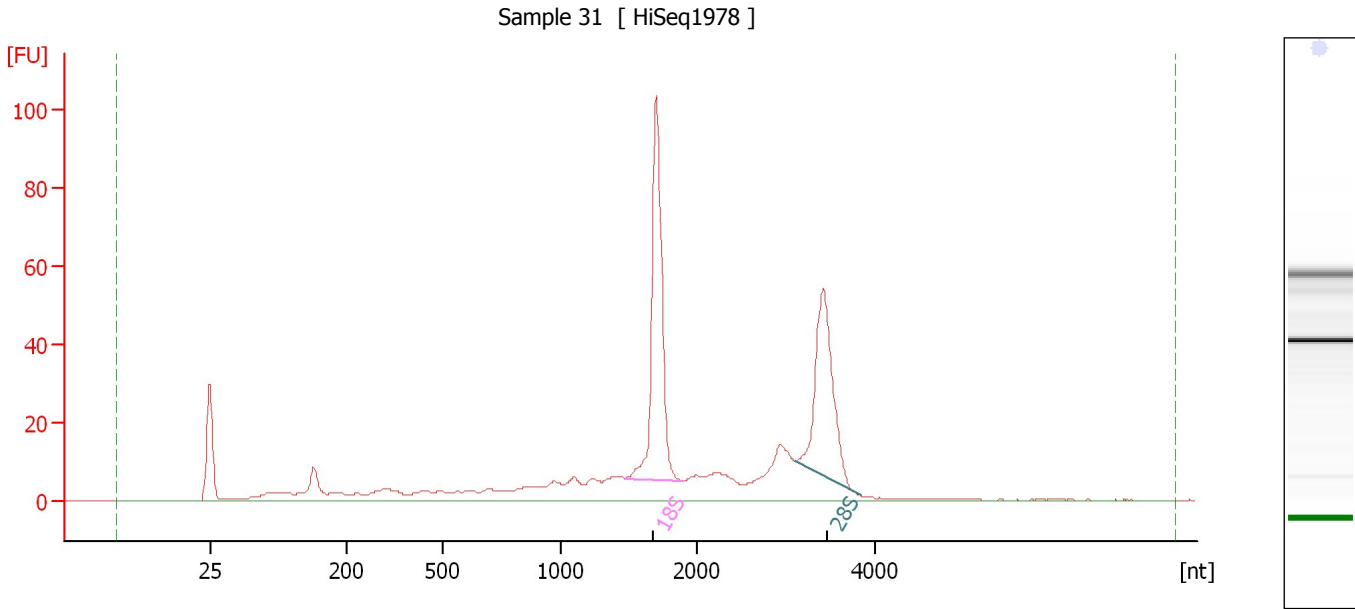
**Fragment table for sample 7 : Sample 30**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,517	1,877	91.7	18.2
28S	3,098	3,847	103.5	20.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 31**

RNA Area:	502.9	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	2,602 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]:	0.7	Result Flagging Label:	RIN: 8.20

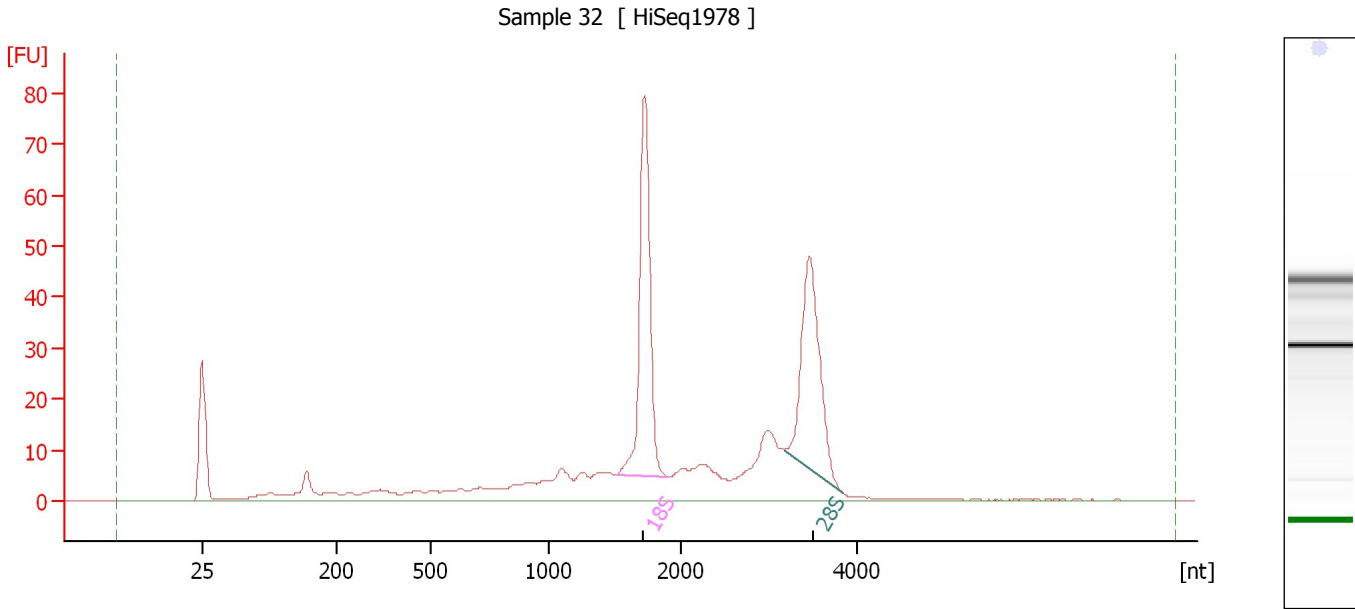
**Fragment table for sample 8 : Sample 31**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,472	1,898	118.4	23.5
28S	3,117	3,849	85.0	16.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : Sample 32**

RNA Area: 437.4                      RNA Integrity Number (RIN): 8.1 (B.02.08)  
RNA Concentration: 2,263 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.9                      Result Flagging Label: RIN: 8.10

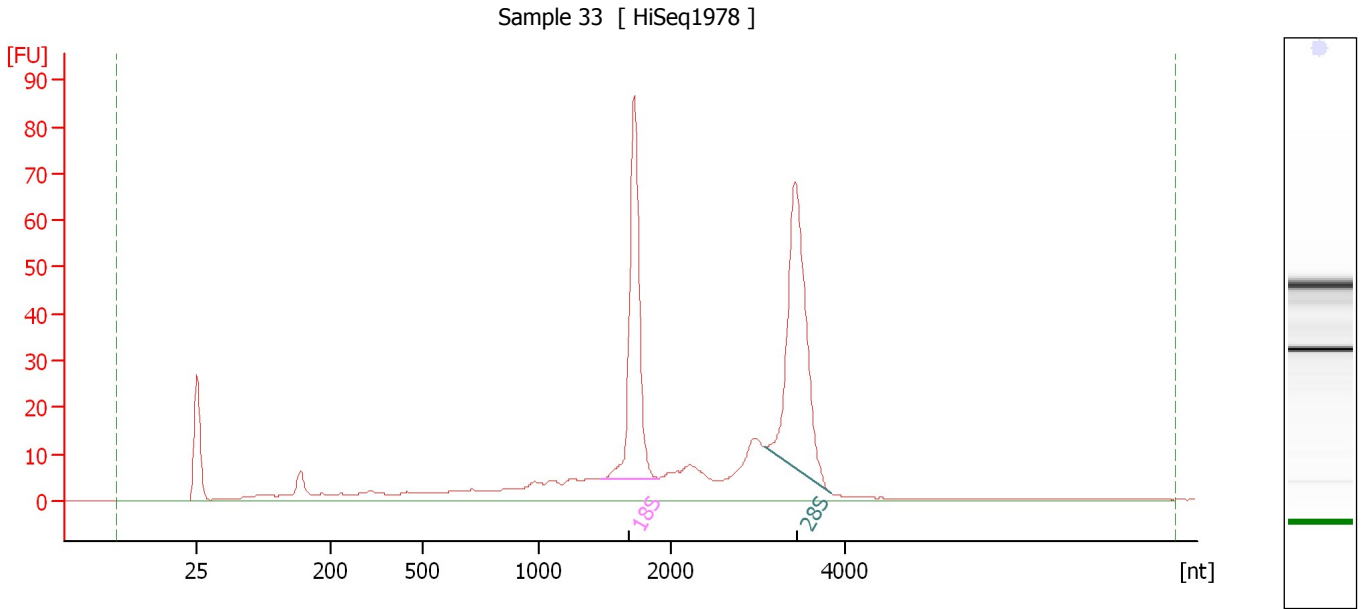
**Fragment table for sample 9 : Sample 32**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,509	1,910	93.0	21.3
28S	3,178	3,848	79.1	18.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 33**

RNA Area: 477.7      RNA Integrity Number (RIN): 8.7 (B.02.08)  
RNA Concentration: 2,472 pg/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2      Result Flagging Label: RIN: 8.70

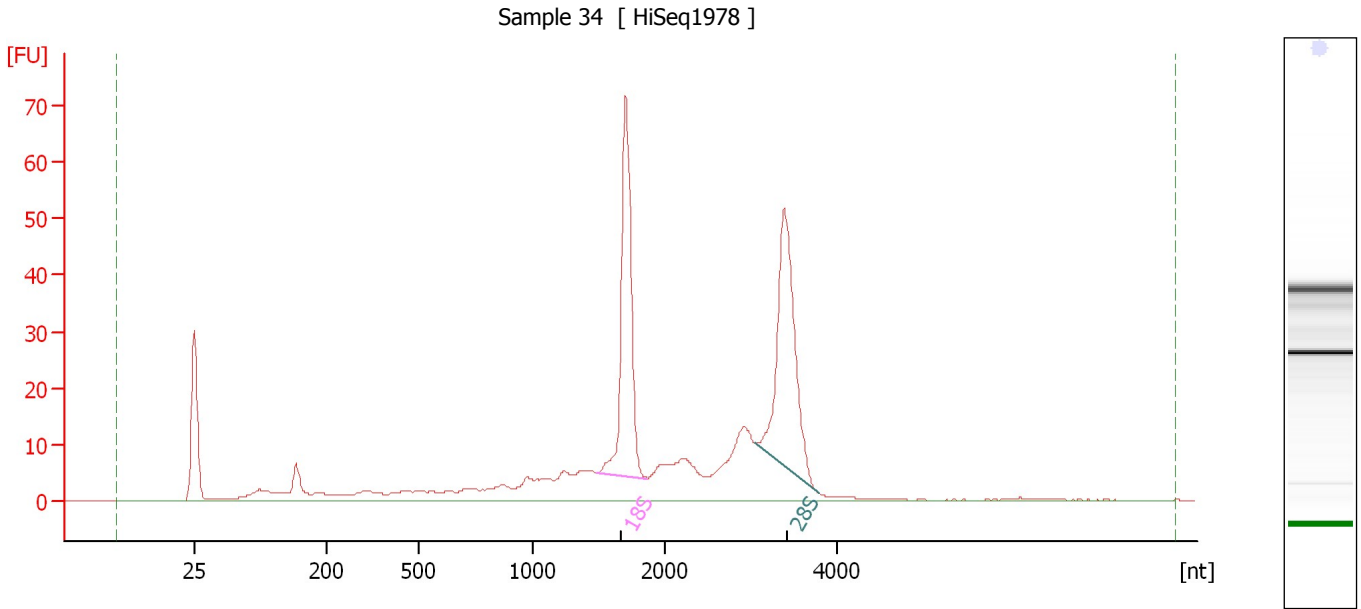
**Fragment table for sample 10 : Sample 33**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,470	1,907	100.8	21.1
28S	3,090	3,853	118.9	24.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : Sample 34**

RNA Area: 411.3                      RNA Integrity Number (RIN): 8.3 (B.02.08)  
RNA Concentration: 2,128 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0                      Result Flagging Label: RIN: 8.30

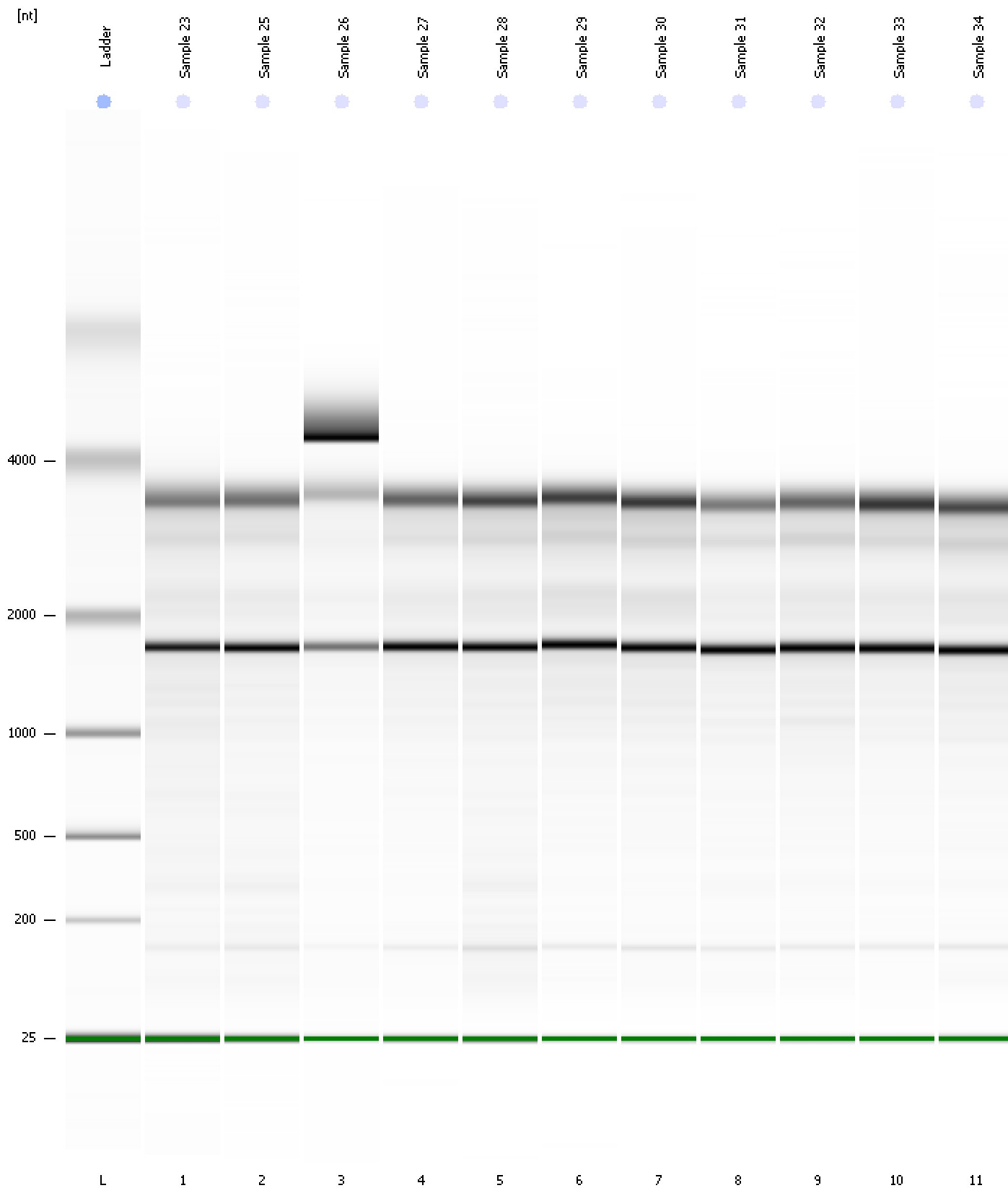
**Fragment table for sample 11 : Sample 34**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,490	1,865	81.2	19.7
28S	3,046	3,789	84.6	20.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
Modified: 11/5/2019 9:57:18 AM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-11-05\2019-11-05\_001.xad

Created: 11/5/2019 9:34:16 AM  
 Modified: 11/5/2019 9:57:18 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/5/2019 9:57:09 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-11-05\2019-11-05_001.xad)		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/5/2019 9:34:22 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1