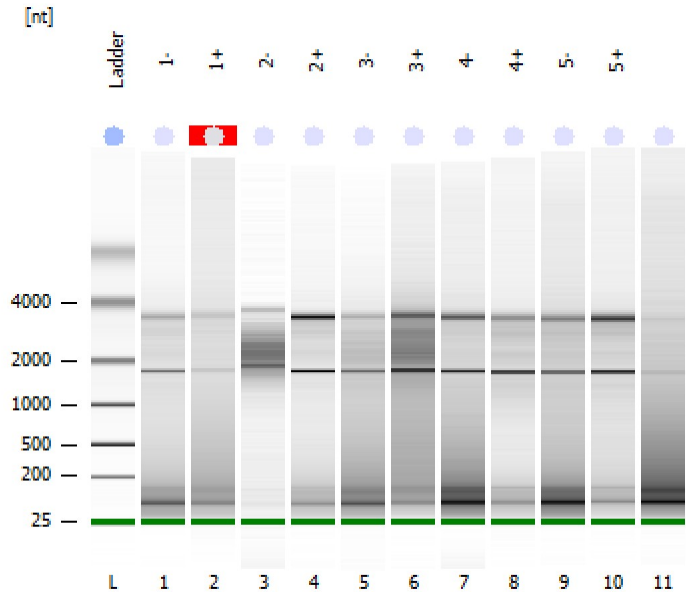


Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

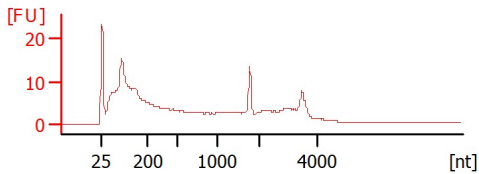
Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

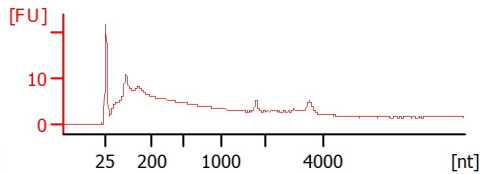
Chip Information:

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

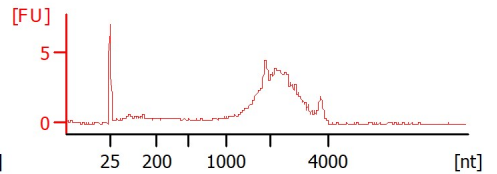
HiSeq2076 #1      **1-**  
 RIN: 4.20



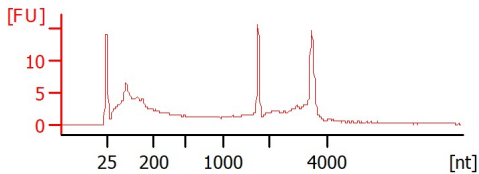
HiSeq2076 #2      **1+**  
 RIN: N/A



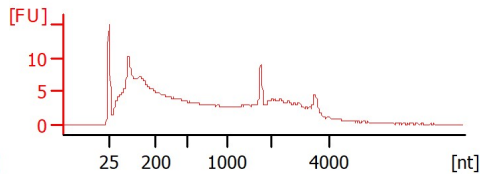
HiSeq2076 #3      **2-**  
 RIN: 3.20



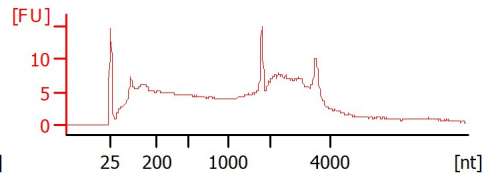
HiSeq2076 #4      **2+**  
 RIN: 6.80



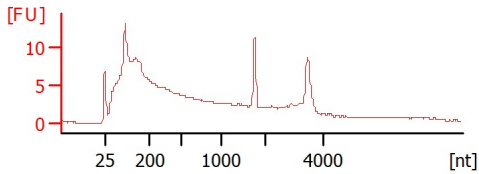
HiSeq2076 #5      **3-**  
 RIN: 3.30



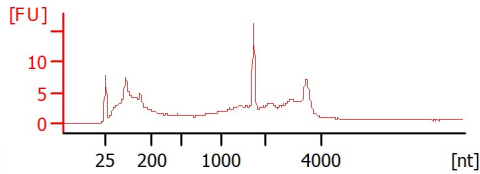
HiSeq2076 #6      **3+**  
 RIN: 3.90



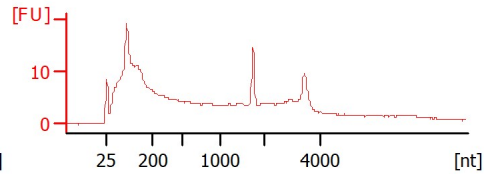
HiSeq2076 #7      **4-**  
 RIN: 4.20



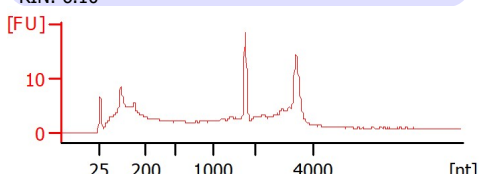
HiSeq2076 #8      **4+**  
 RIN: 5.30



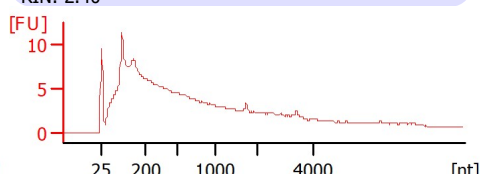
HiSeq2076 #9      **5-**  
 RIN: 3.60



HiSeq2076 #10      **5+**  
 RIN: 6.10



HiSeq2076 #11        
 RIN: 2.40



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
1-	HiSeq2076 #1	✓	RIN: 4.20	
1+	HiSeq2076 #2	✓	RIN N/A	
2-	HiSeq2076 #3	✓	RIN: 3.20	
2+	HiSeq2076 #4	✓	RIN: 6.80	
3-	HiSeq2076 #5	✓	RIN: 3.30	
3+	HiSeq2076 #6	✓	RIN: 3.90	
4-	HiSeq2076 #7	✓	RIN: 4.20	
4+	HiSeq2076 #8	✓	RIN: 5.30	
5-	HiSeq2076 #9	✓	RIN: 3.60	
5+	HiSeq2076 #10	✓	RIN: 6.10	
	HiSeq2076 #11	✓	RIN: 2.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**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

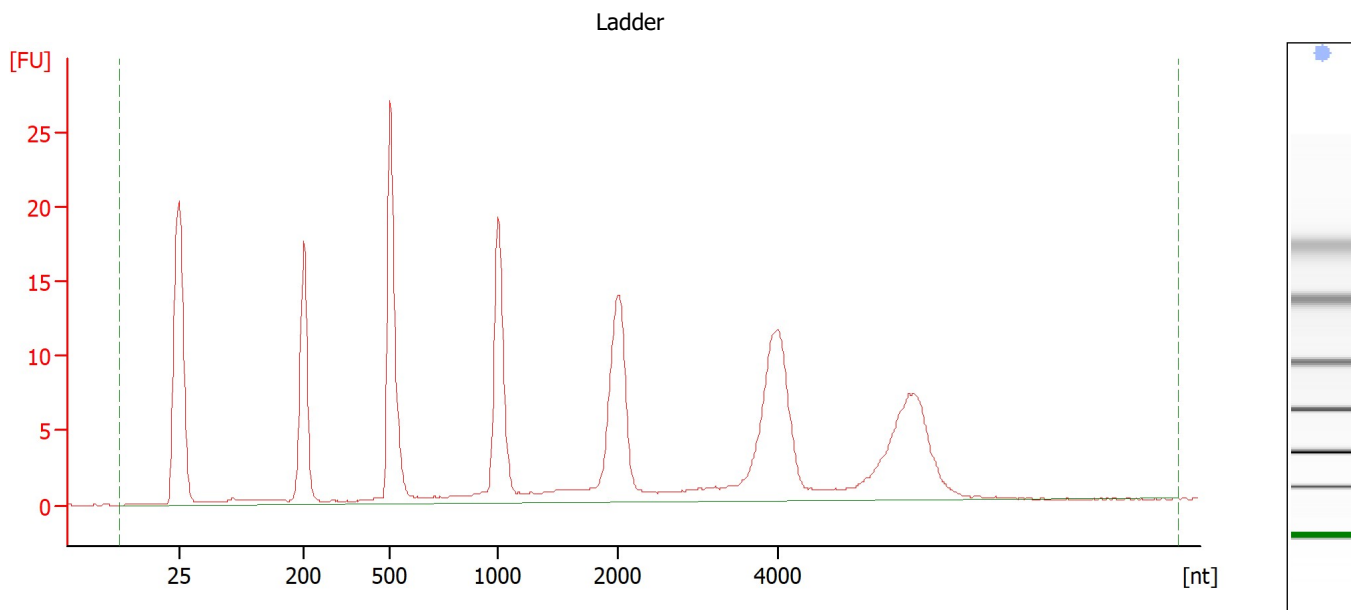
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary**



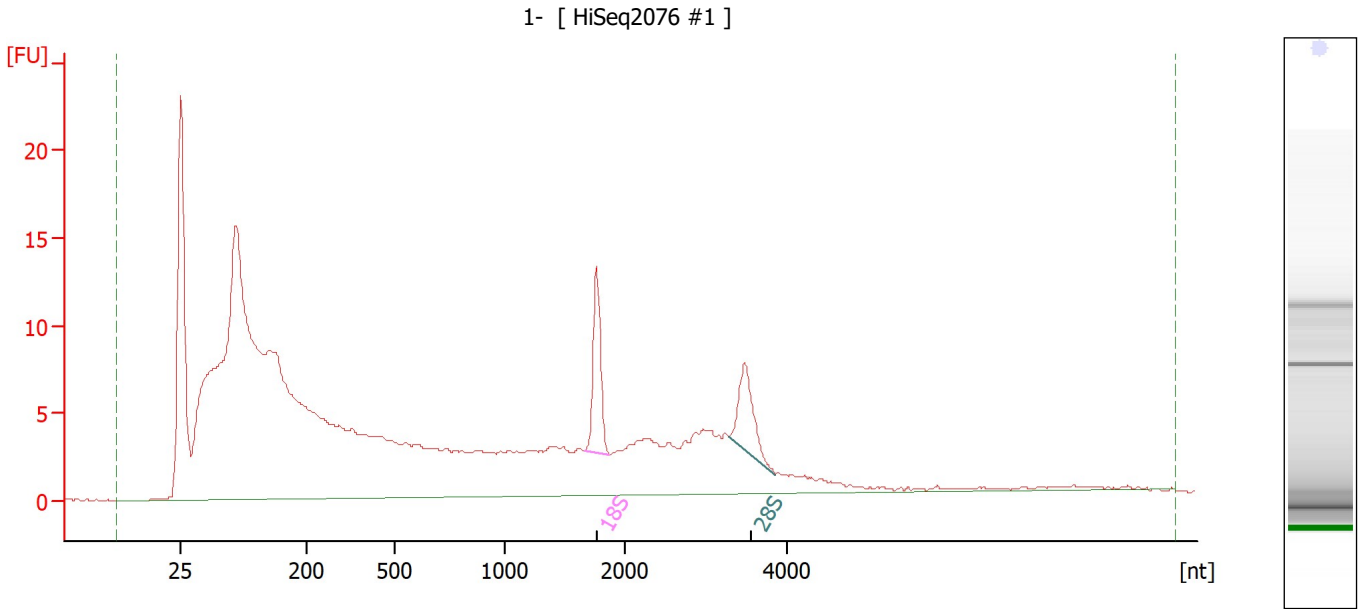
**Overall Results for Ladder**

RNA Area:	210.5	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: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 1-**

RNA Area:	368.1	RNA Integrity Number (RIN):	4.2 (B.02.10)
RNA Concentration:	1,749 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]:	0.8	Result Flagging Label:	RIN: 4.20

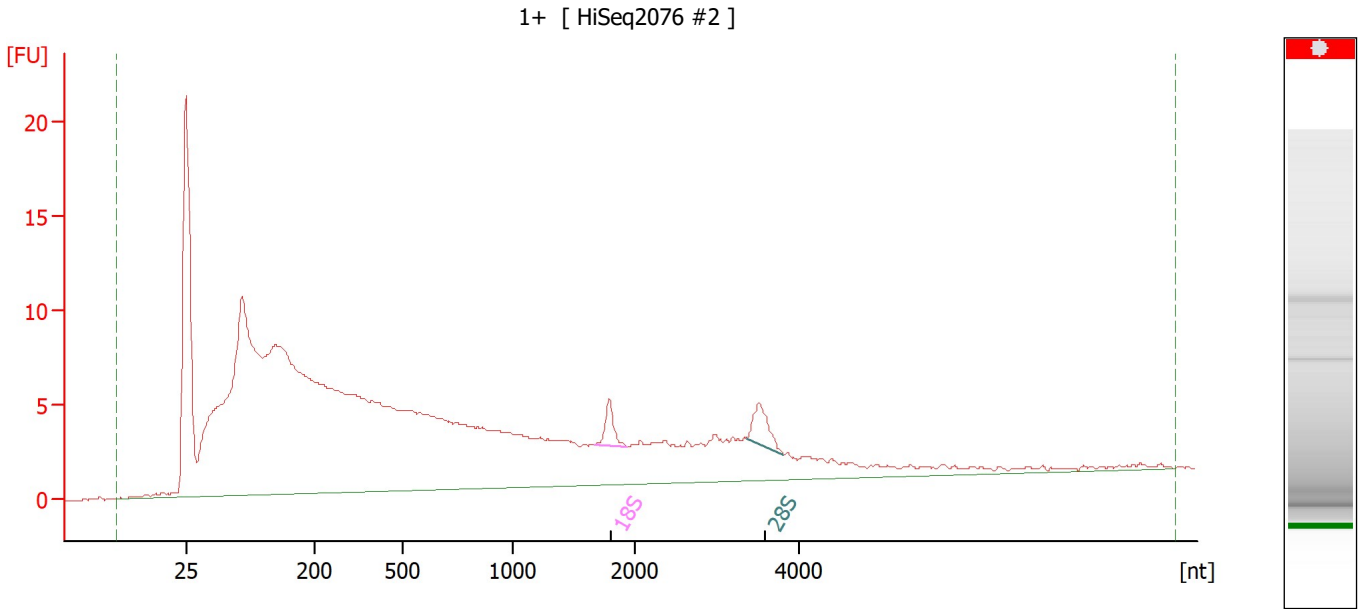
**Fragment table for sample 1 : 1-**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,667	1,870	9.7	2.6
28S	3,279	3,863	7.9	2.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1+**

RNA Area:	340.3	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	1,616 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN N/A

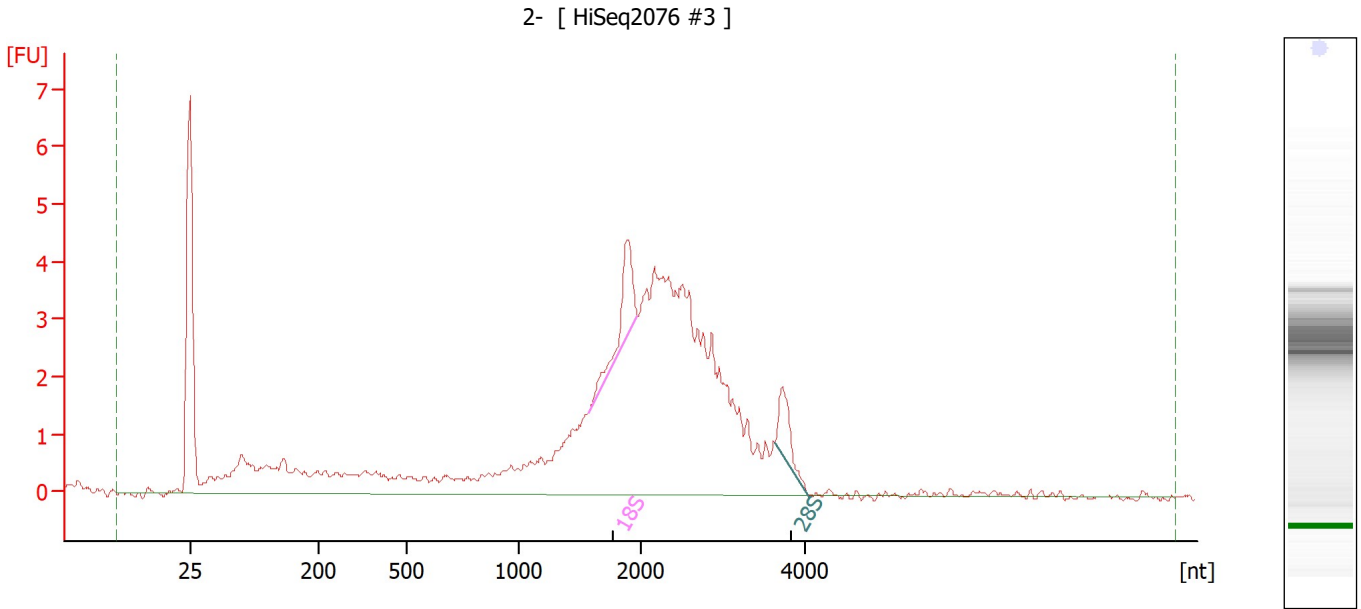
**Fragment table for sample 2 : 1+**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,936	2.7	0.8
28S	3,375	3,821	3.6	1.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 2-**

RNA Area:	75.1	RNA Integrity Number (RIN):	3.2 (B.02.10)
RNA Concentration:	357 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]:	0.6	Result Flagging Label:	RIN: 3.20

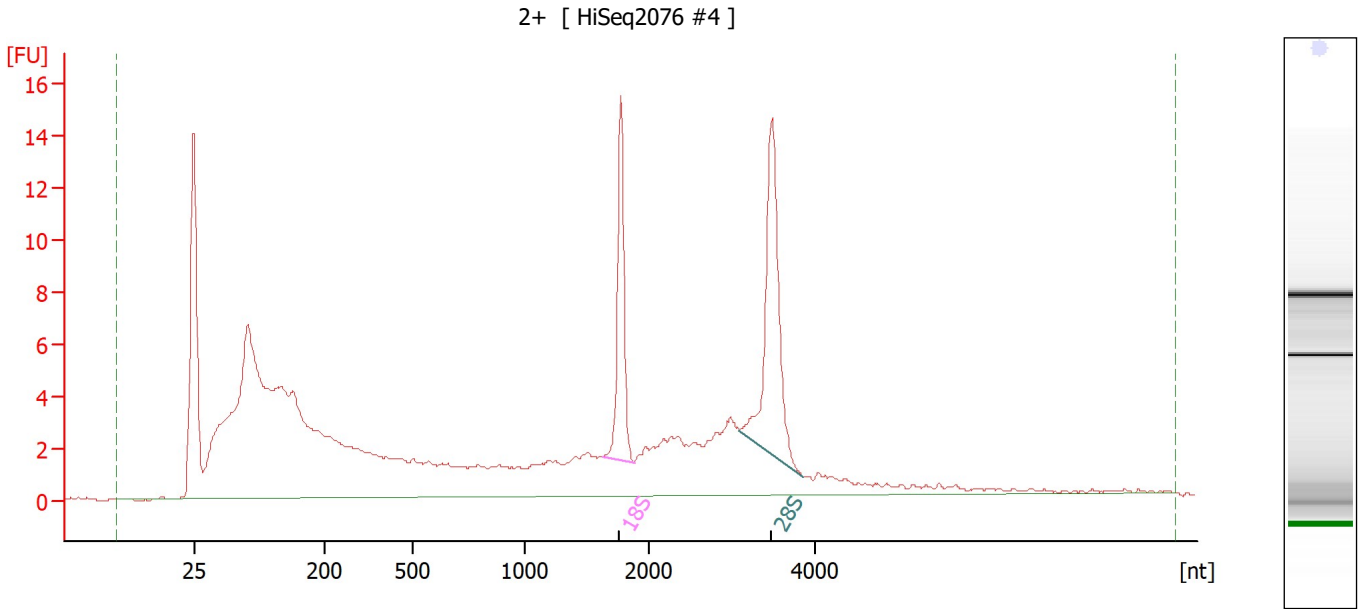
**Fragment table for sample 3 : 2-**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	1,965	2.4	3.2
28S	3,630	4,034	1.4	1.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 2+**

RNA Area:	206.4	RNA Integrity Number (RIN):	6.8 (B.02.10)
RNA Concentration:	981 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]:	1.5	Result Flagging Label:	RIN: 6.80

**Fragment table for sample 4 : 2+**

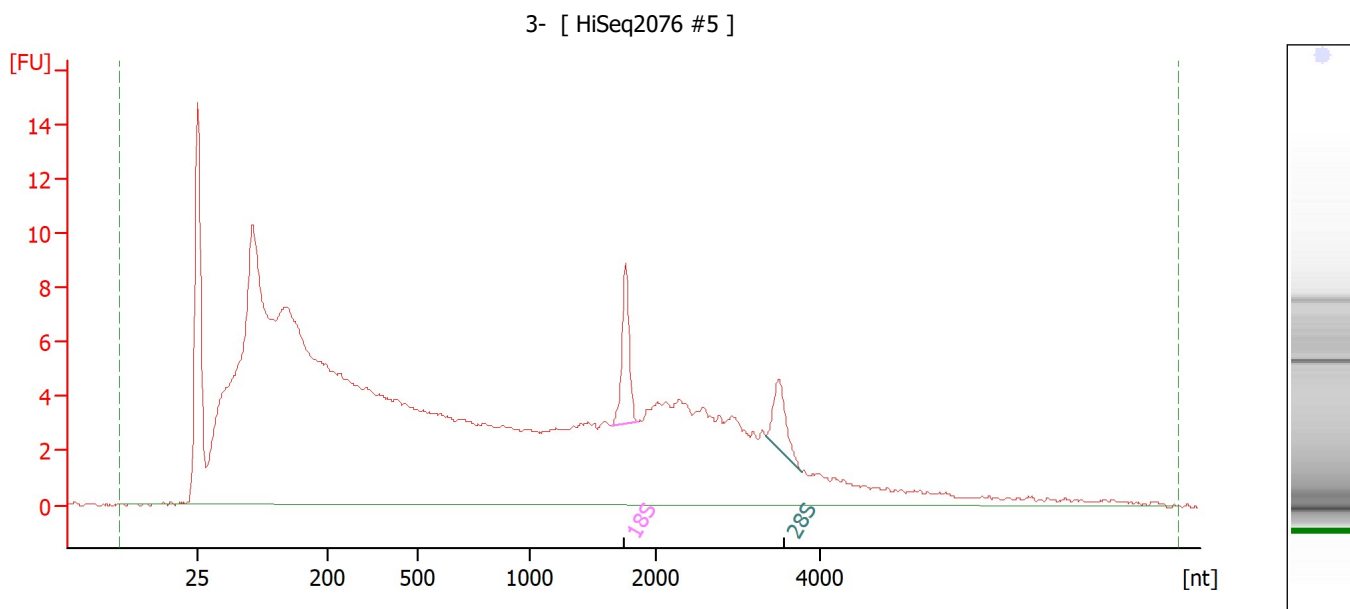
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,873	11.8	5.7
28S	3,089	3,852	18.1	8.8



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 3-**

RNA Area:	331.7	RNA Integrity Number (RIN):	3.3 (B.02.10)
RNA Concentration:	1,576 µg/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: 3.30

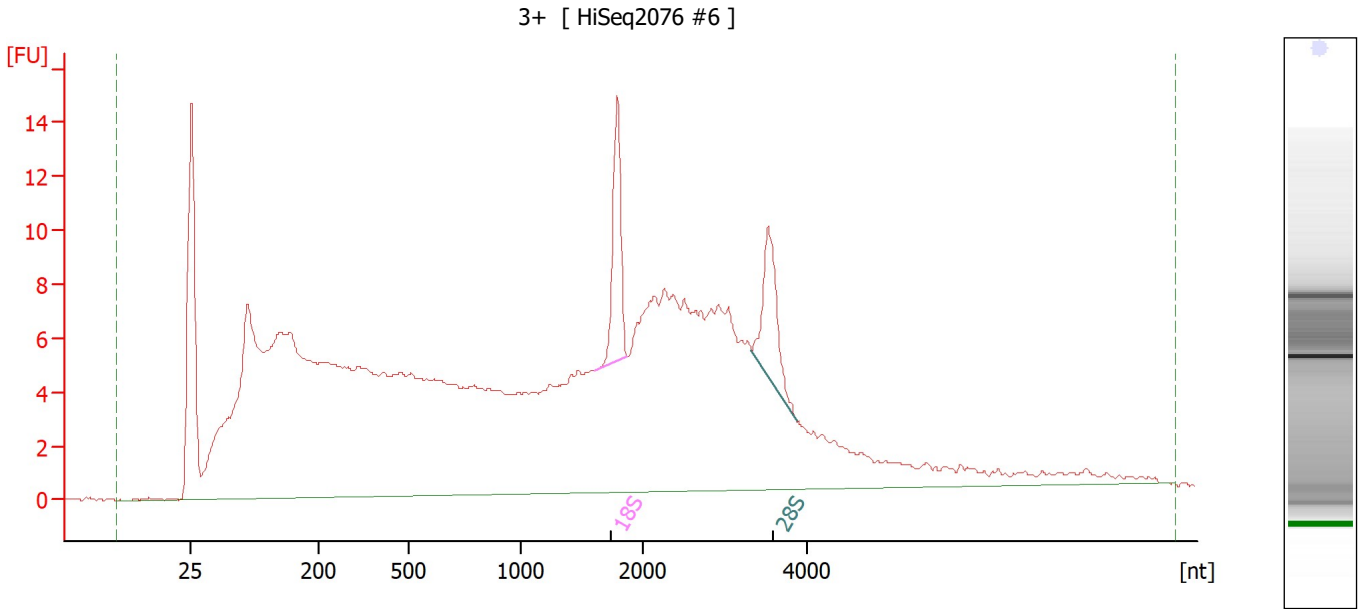
**Fragment table for sample 5 : 3-**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,857	5.5	1.7
28S	3,346	3,772	3.4	1.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 3+**

RNA Area:	410.2	RNA Integrity Number (RIN):	3.9 (B.02.10)
RNA Concentration:	1,949 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: 3.90

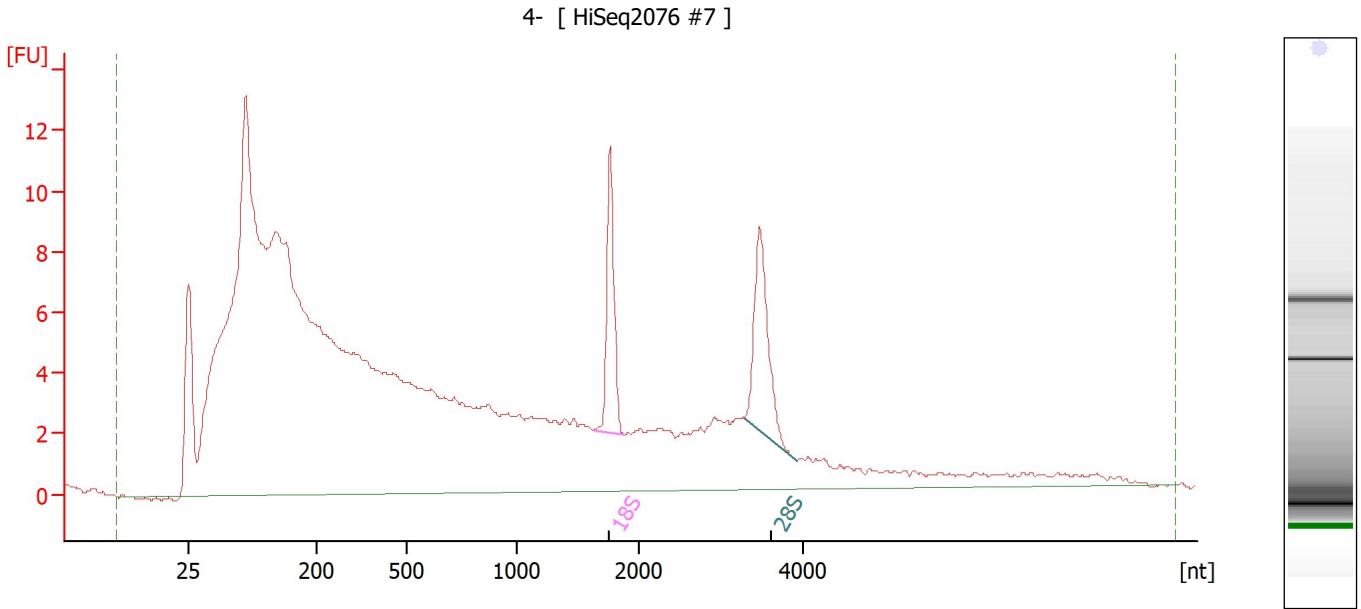
**Fragment table for sample 6 : 3+**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,870	9.6	2.3
28S	3,315	3,861	8.4	2.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 4-**

RNA Area:	343.9	RNA Integrity Number (RIN):	4.2 (B.02.10)
RNA Concentration:	1,634 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]:	1.2	Result Flagging Label:	RIN: 4.20

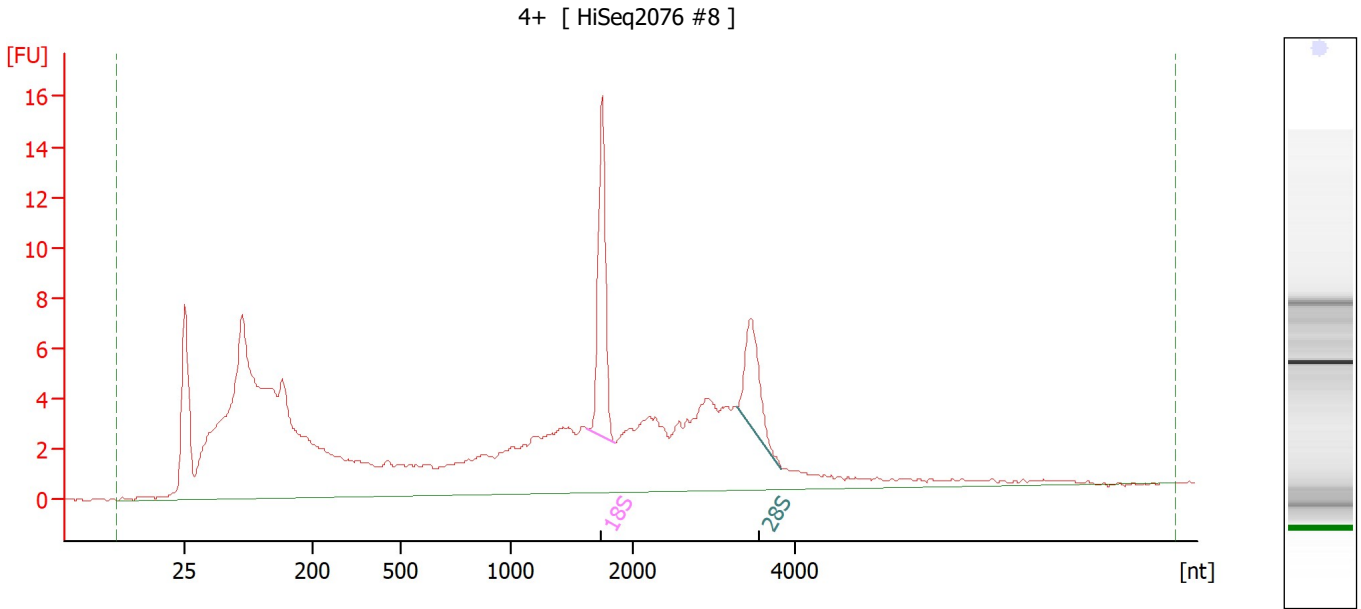
**Fragment table for sample 7 : 4-**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	1,886	8.5	2.5
28S	3,279	3,920	10.1	2.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 4+**

RNA Area:	216.6	RNA Integrity Number (RIN):	5.3 (B.02.10)
RNA Concentration:	1,029 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]:	0.5	Result Flagging Label:	RIN: 5.30

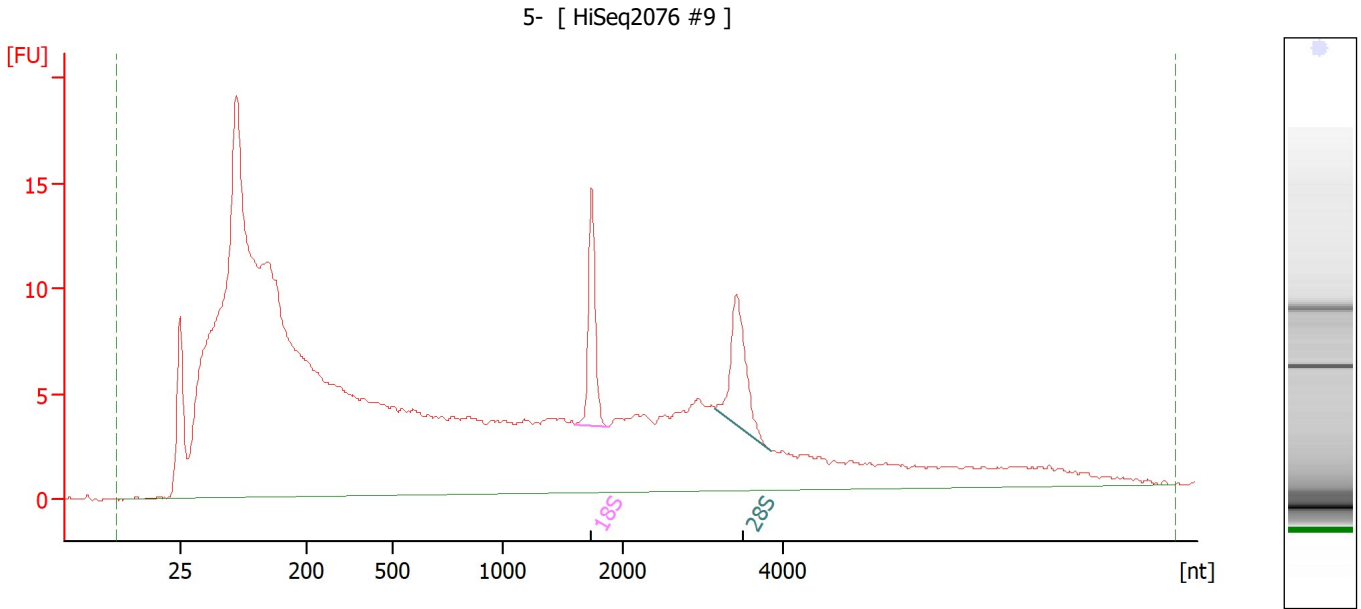
**Fragment table for sample 8 : 4+**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,848	12.3	5.7
28S	3,285	3,824	6.7	3.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 5-**

RNA Area:	471.4	RNA Integrity Number (RIN):	3.6 (B.02.10)
RNA Concentration:	2,239 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: 3.60

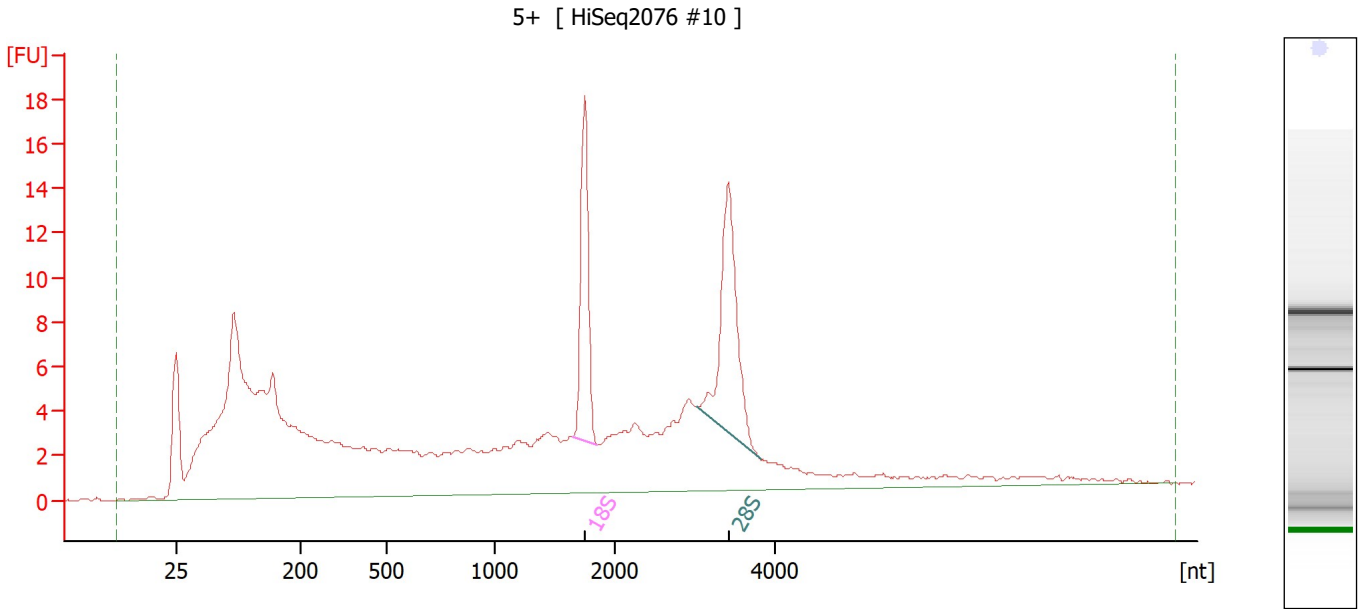
**Fragment table for sample 9 : 5-**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,878	10.4	2.2
28S	3,148	3,839	10.4	2.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 5+**

RNA Area:	272.2	RNA Integrity Number (RIN):	6.1 (B.02.10)
RNA Concentration:	1,293 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]:	1.4	Result Flagging Label:	RIN: 6.10

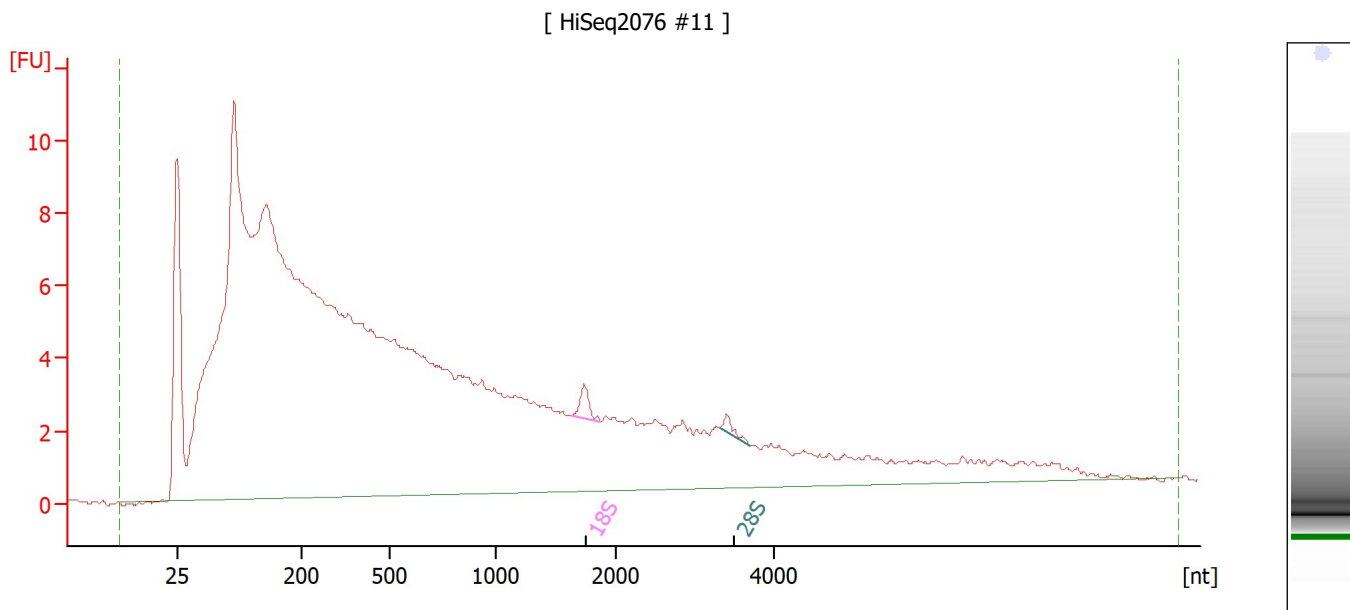
**Fragment table for sample 10 : 5+**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,642	1,857	14.7	5.4
28S	3,020	3,825	20.2	7.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 :**

RNA Area:	324.1	RNA Integrity Number (RIN):	2.4 (B.02.10)
RNA Concentration:	1,539 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]:	0.4	Result Flagging Label:	RIN: 2.40

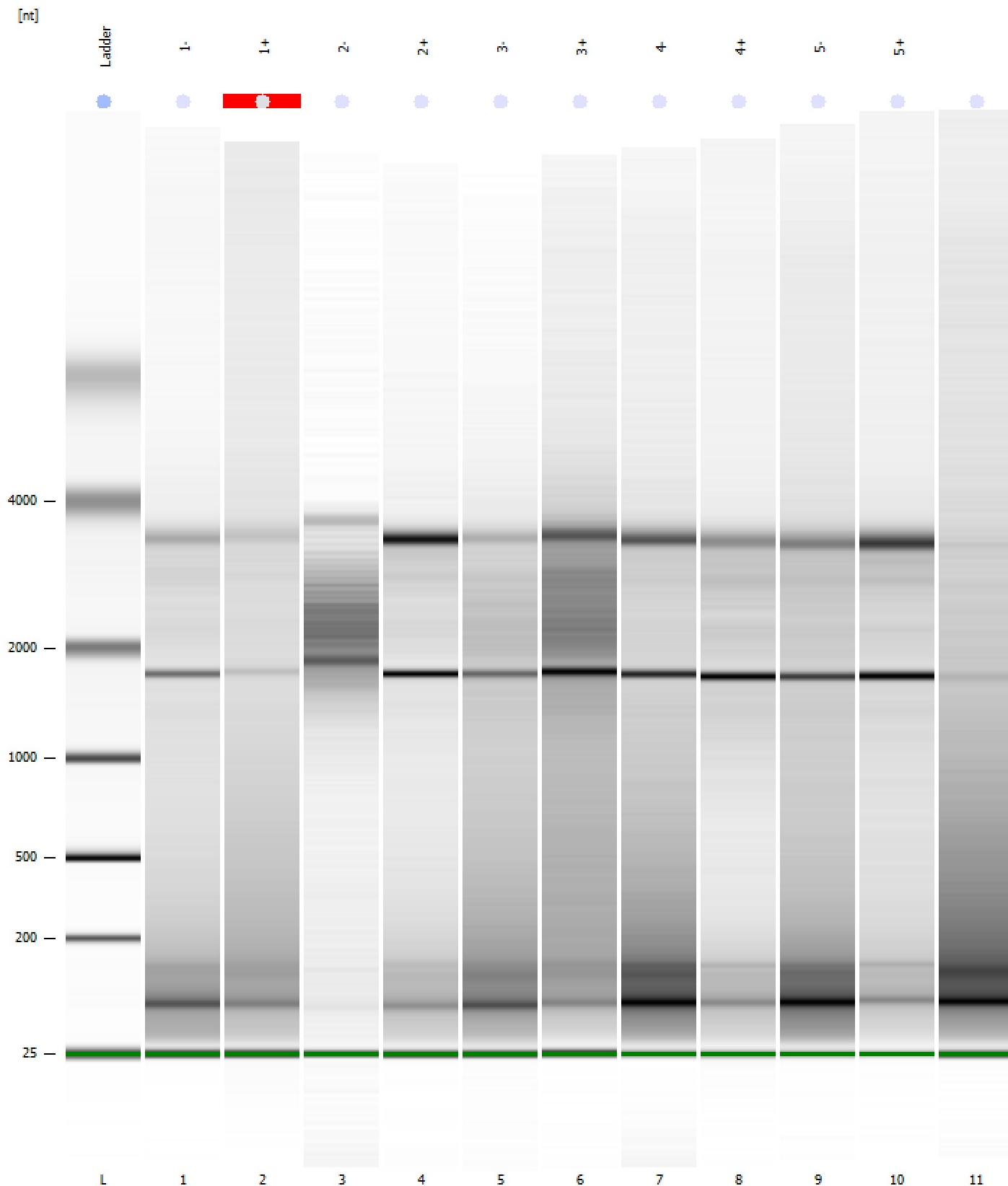
**Fragment table for sample 11 :**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,632	1,874	1.1	0.3
28S	3,317	3,680	0.5	0.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
Modified: 1/30/2020 12:42:37 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...30\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-01-30\_001.xad

Created: 1/30/2020 11:58:13 AM  
 Modified: 1/30/2020 12:42:37 PM

**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		1/30/2020 12:21:08 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-01-30\Bioanalyzer1_Eukaryote Total RNA Pico_2020-01-30_001.xad)		Instrument	Run		1/30/2020 11:58:19 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		1/30/2020 11:58:19 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		1/30/2020 11:58:19 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		1/30/2020 11:58:19 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		1/30/2020 11:58:19 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		1/30/2020 11:58:19 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		1/30/2020 11:58:19 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB