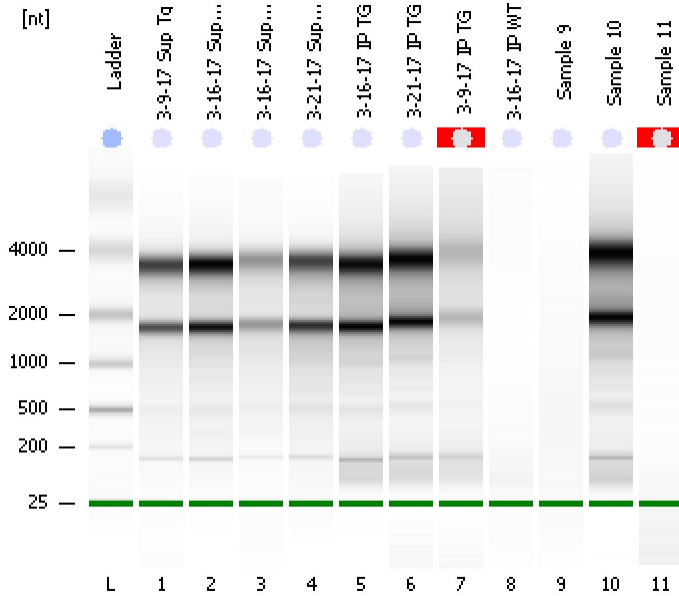


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

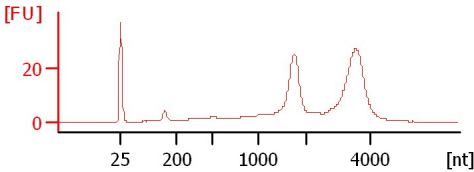
Assay Information:

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.

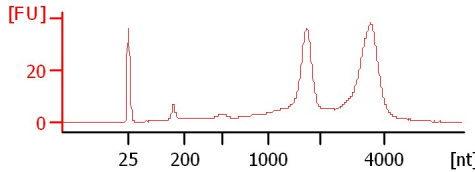
Chip Information:

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

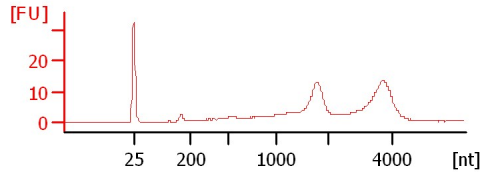
**3-9-17 Sup Tg**  
RIN: 9.30



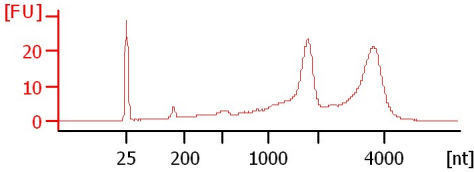
**3-16-17 Sup Tg**  
RIN: 9.70



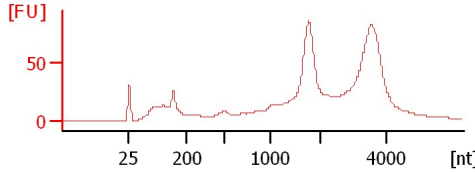
**3-16-17 Sup WT**  
RIN: 8.60



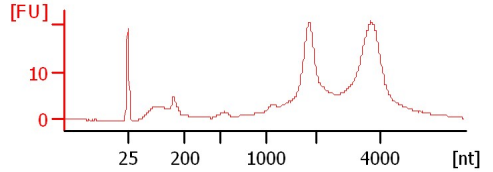
**3-21-17 Sup 17**  
RIN: 9.20



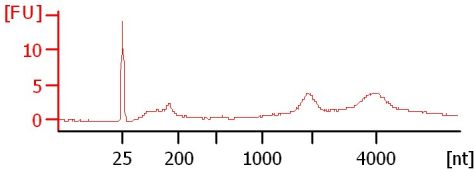
**3-16-17 IP TG**  
RIN: 9.30



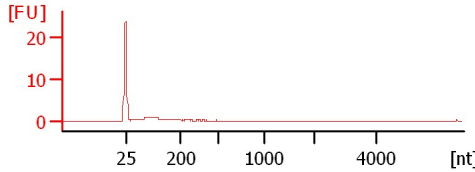
**3-21-17 IP TG**  
RIN: 9.20



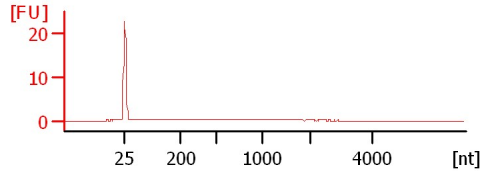
**3-9-17 IP TG**  
RIN N/A



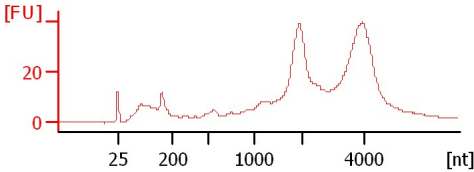
**3-16-17 IP WT**  
RIN:1



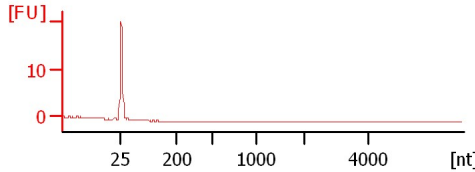
**Sample 9**  
RIN:1



**Sample 10**  
RIN:9



**Sample 11**  
RIN N/A



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
 Modified: 3/24/2017 4:55:15 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
3-9-17 Sup Tg		✓	RIN: 9.30	
3-16-17 Sup Tg		✓	RIN: 9.70	
3-16-17 Sup WT		✓	RIN: 8.60	
3-21-17 Sup 17		✓	RIN: 9.20	
3-16-17 IP TG		✓	RIN: 9.30	
3-21-17 IP TG		✓	RIN: 9.20	
3-9-17 IP TG		✓	RIN N/A	
3-16-17 IP WT		✓	RIN:1	
Sample 9		✓	RIN:1	
Sample 10		✓	RIN:9	
Sample 11		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 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/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 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

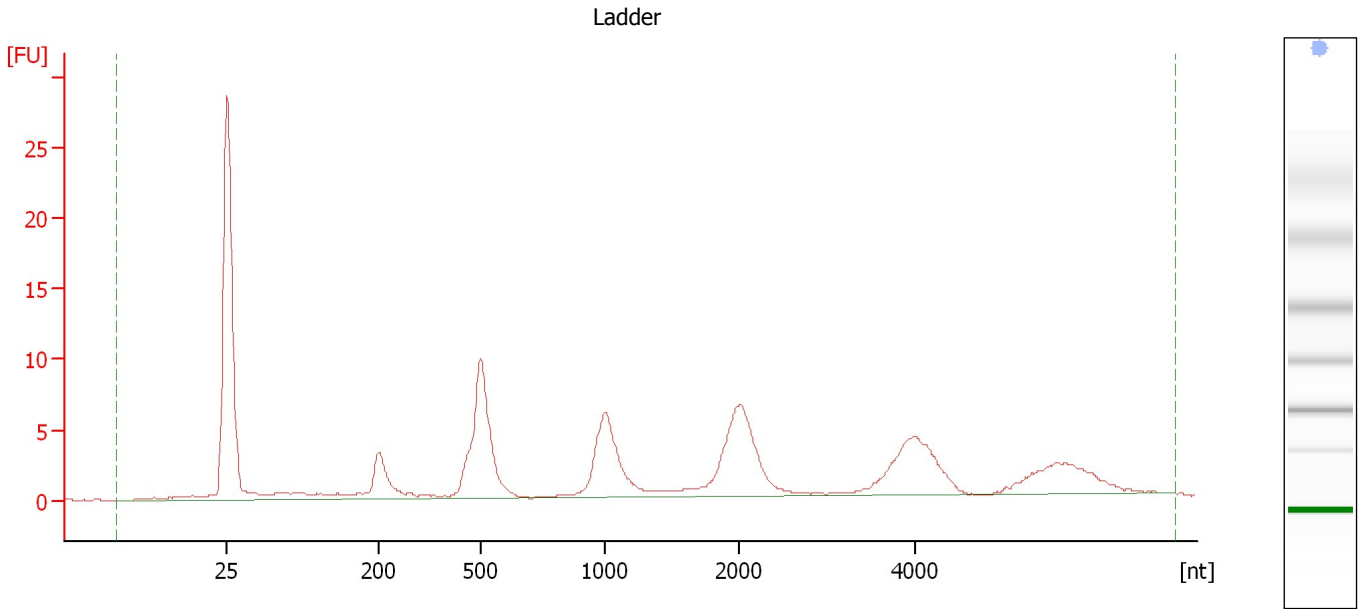
### Ladder

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\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary**



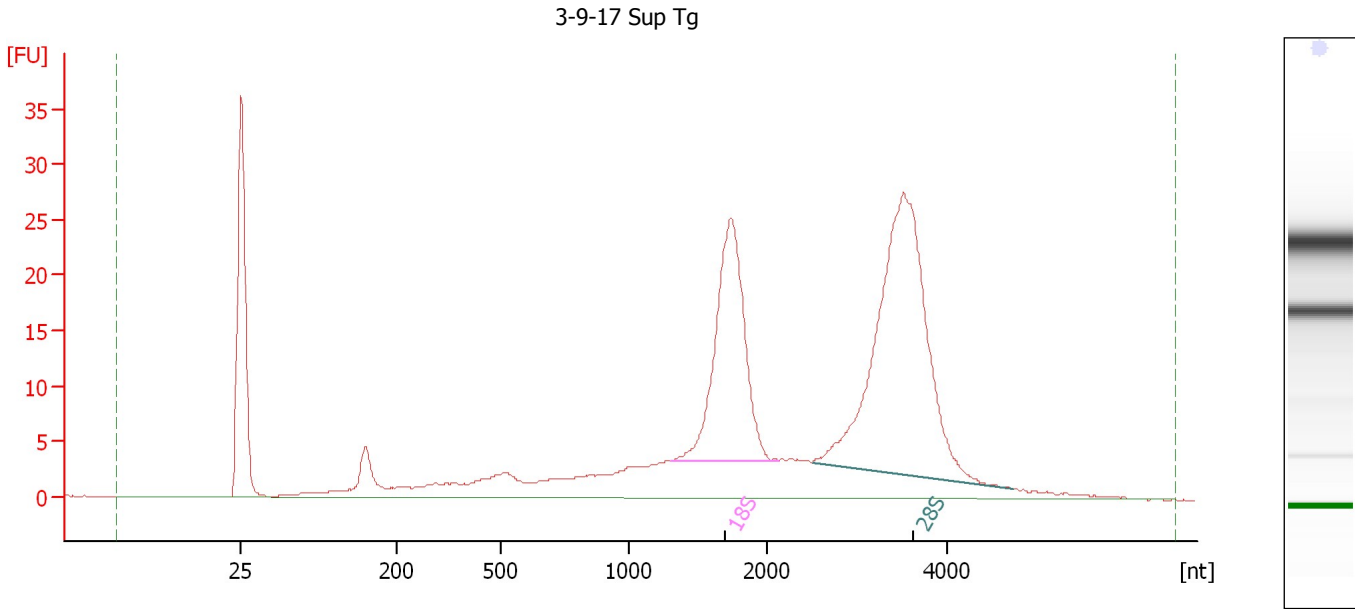
**Overall Results for Ladder**

RNA Area:	125.4	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\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 3-9-17 Sup Tg**

RNA Area: 351.6 RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 2,804 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.30

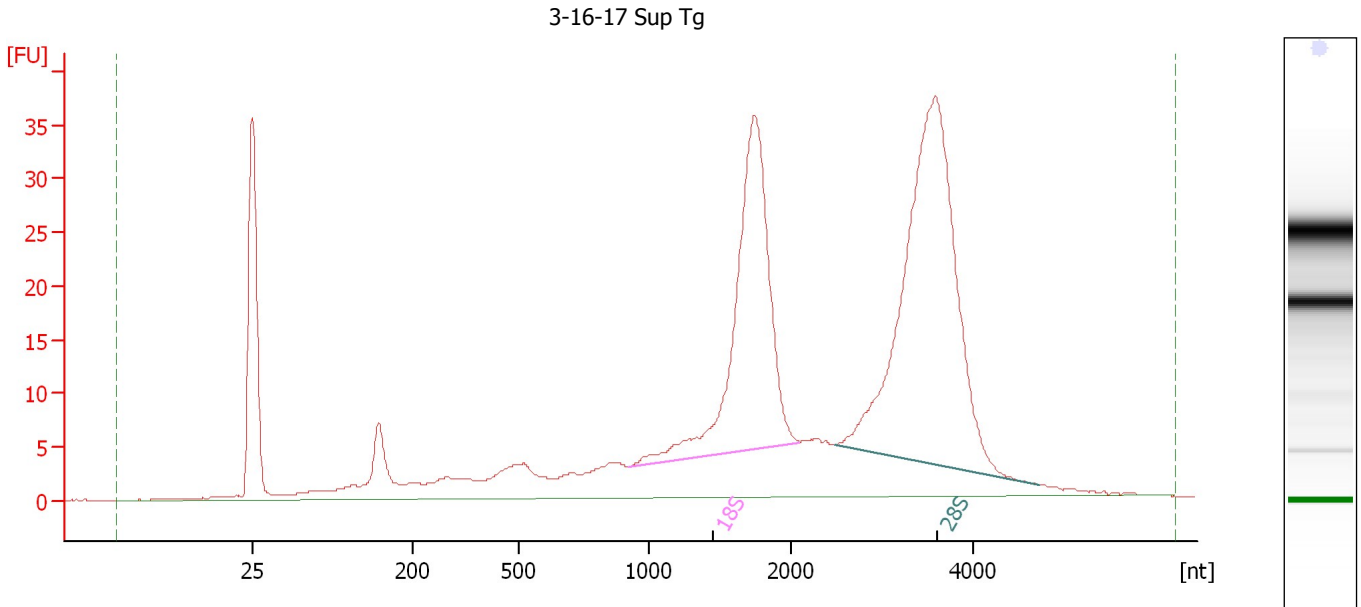
**Fragment table for sample 1 : 3-9-17 Sup Tg**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,306	2,123	71.3	20.3
28S	2,506	4,753	123.4	35.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
 Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 3-16-17 Sup Tg**

RNA Area:	512.8	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	4,091 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: 9.70

**Fragment table for sample 2 : 3-16-17 Sup Tg**

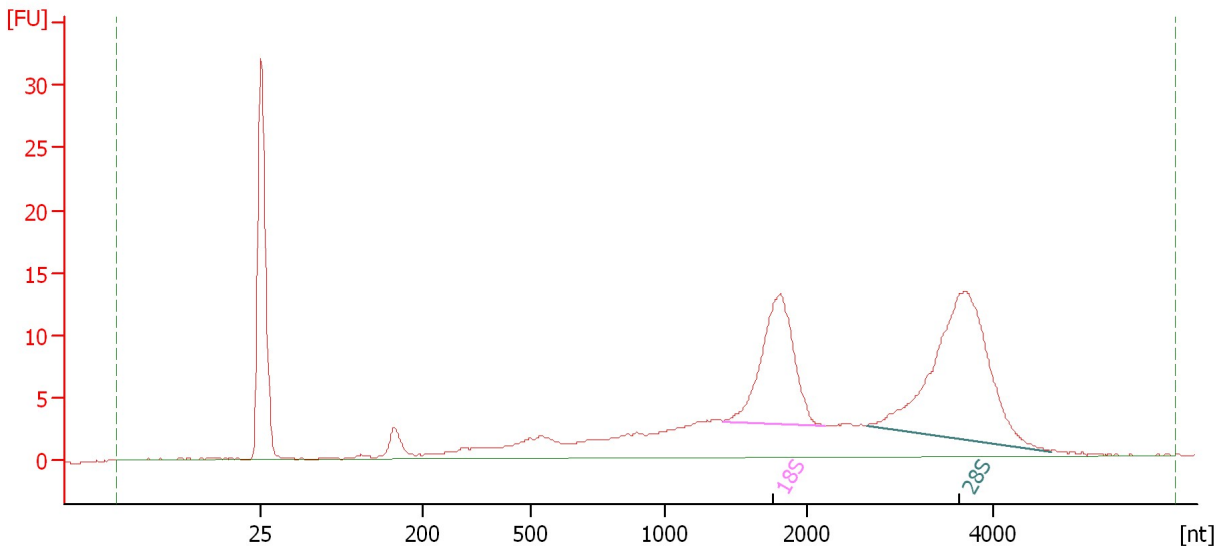
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	925	2,101	115.0	22.4
28S	2,487	4,721	167.8	32.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**

3-16-17 Sup WT



**Overall Results for sample 3 : 3-16-17 Sup WT**

RNA Area: 212.1 RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 1,692 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 8.60

**Fragment table for sample 3 : 3-16-17 Sup WT**

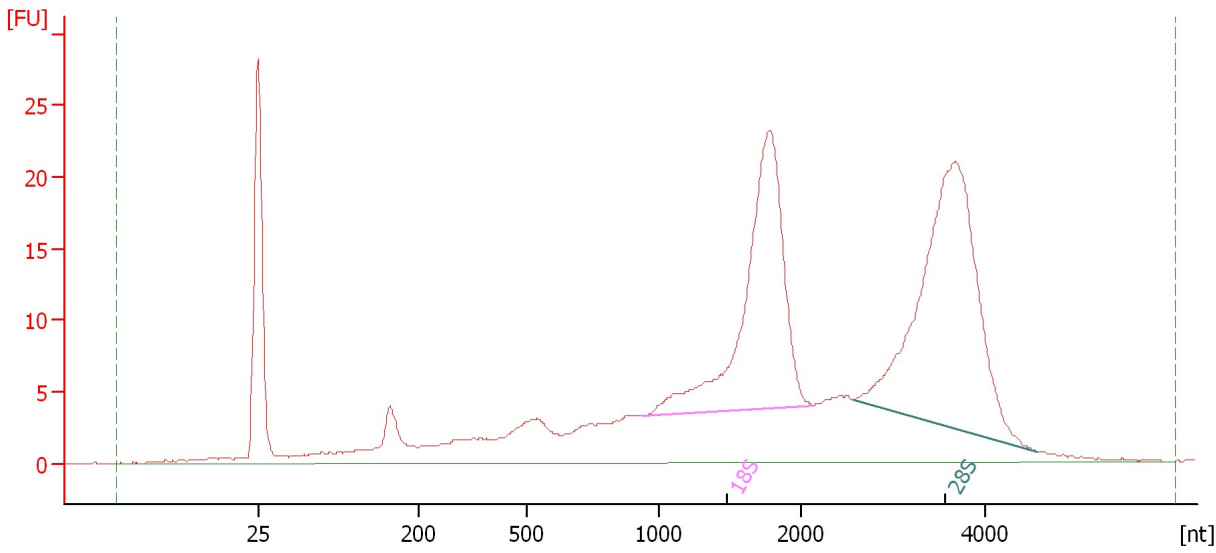
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,417	2,182	35.8	16.9
28S	2,631	4,625	59.9	28.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**

3-21-17 Sup 17



**Overall Results for sample 4 : 3-21-17 Sup 17**

RNA Area: 385.2 RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 3,073 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 9.20

**Fragment table for sample 4 : 3-21-17 Sup 17**

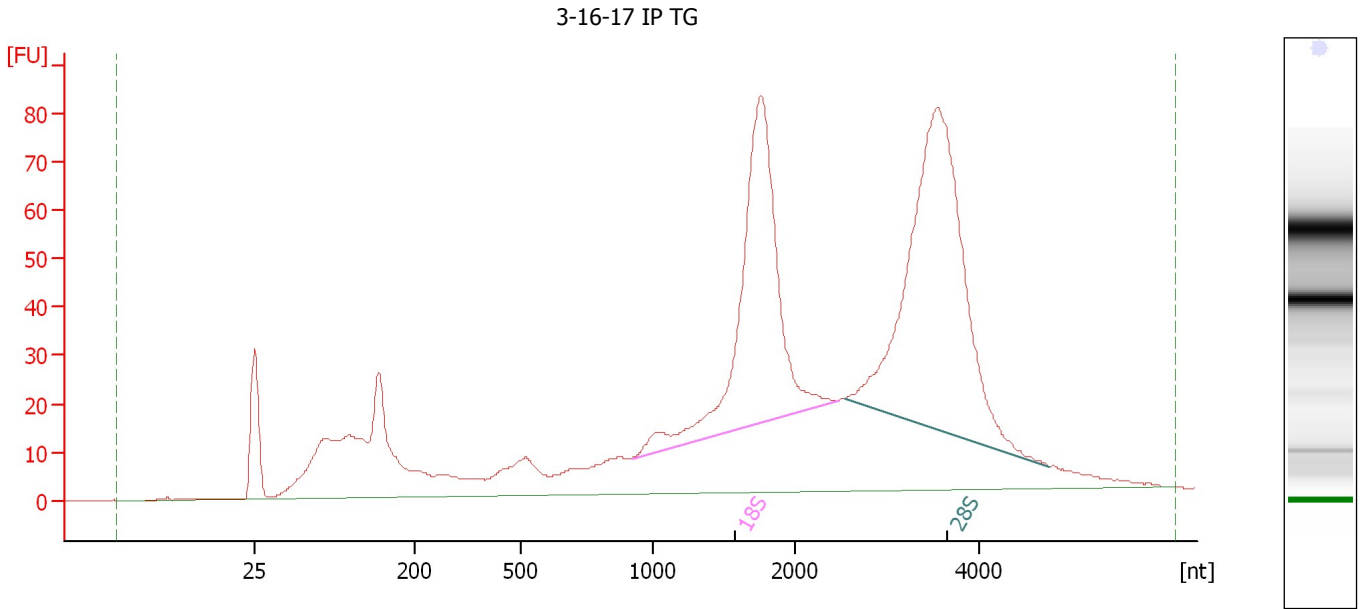
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	940	2,124	82.0	21.3
28S	2,565	4,569	98.4	25.5



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 3-16-17 IP TG**

RNA Area: 1,433.0 RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 11,431 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 9.30

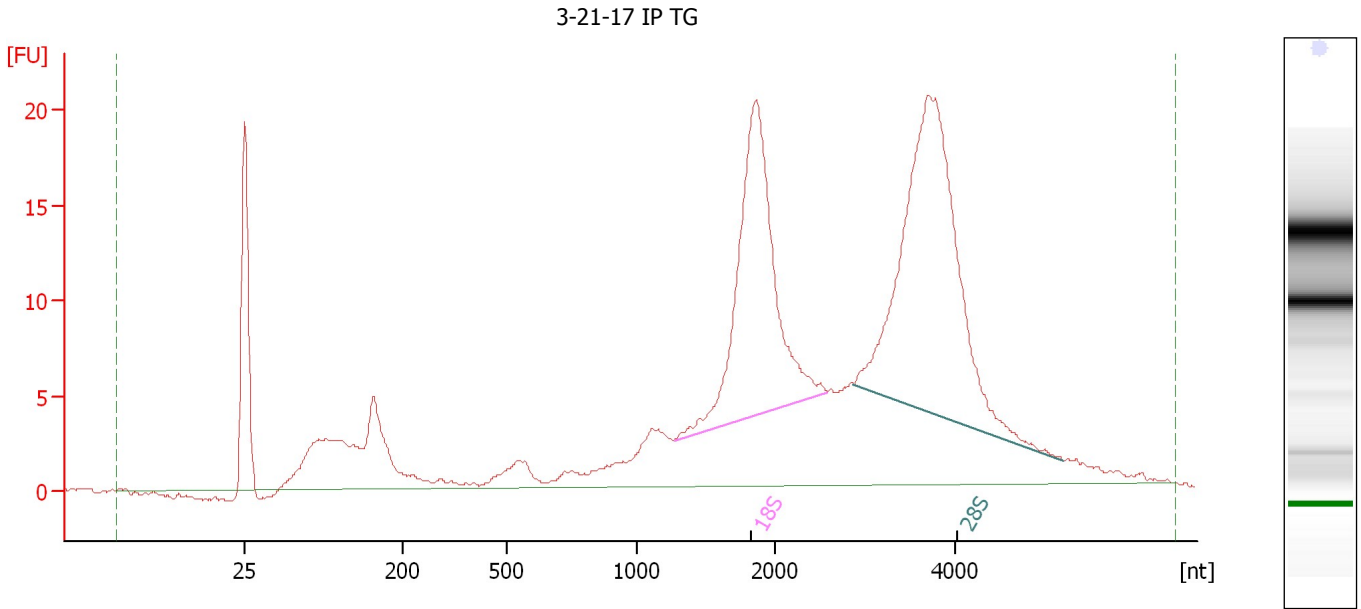
**Fragment table for sample 5 : 3-16-17 IP TG**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	920	2,474	267.4	18.7
28S	2,544	4,770	345.4	24.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 3-21-17 IP TG**

RNA Area: 344.8      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 2,751 pg/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4      Result Flagging Label: RIN: 9.20

**Fragment table for sample 6 : 3-21-17 IP TG**

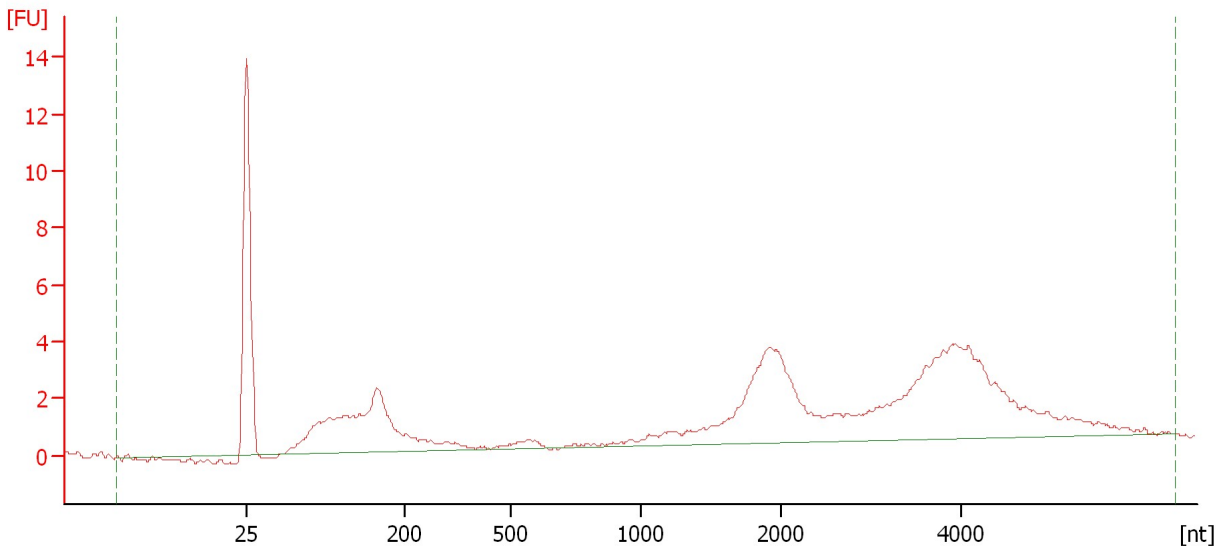
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,274	2,574	63.8	18.5
28S	2,859	5,195	86.2	25.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**

3-9-17 IP TG



**Overall Results for sample 7 : 3-9-17 IP TG**

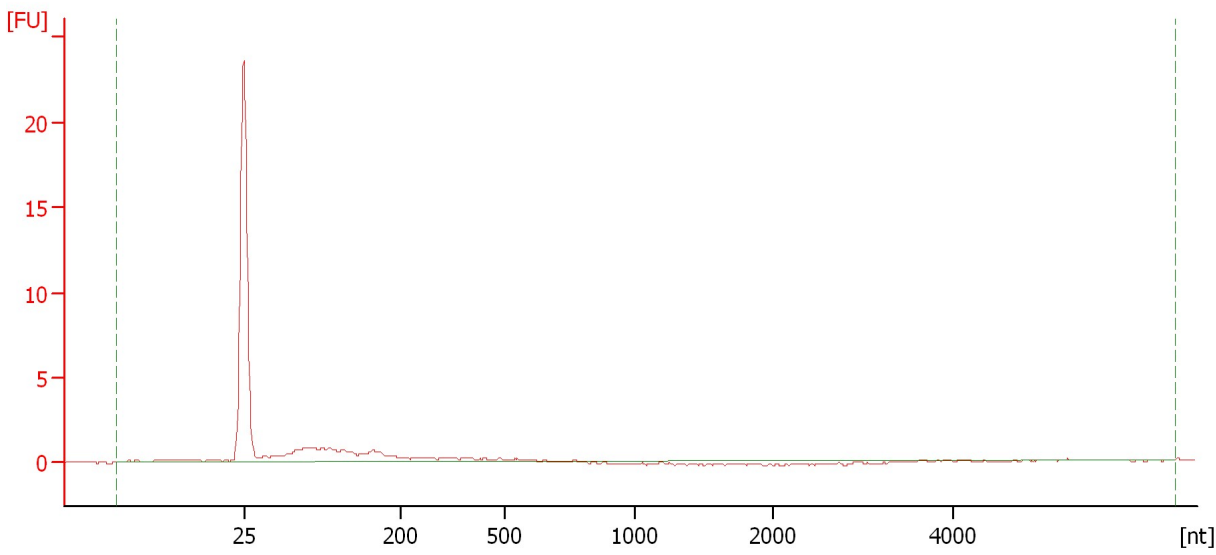
RNA Area:	80.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	641 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**

3-16-17 IP WT



**Overall Results for sample 8 : 3-16-17 IP WT**

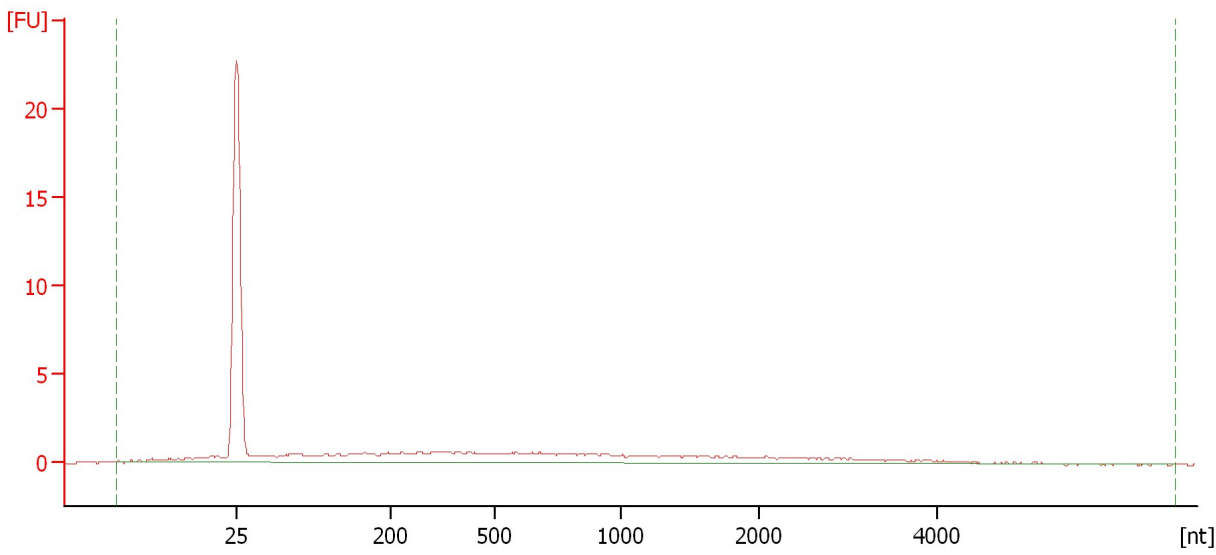
RNA Area:	15.6	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	125 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**

Sample 9



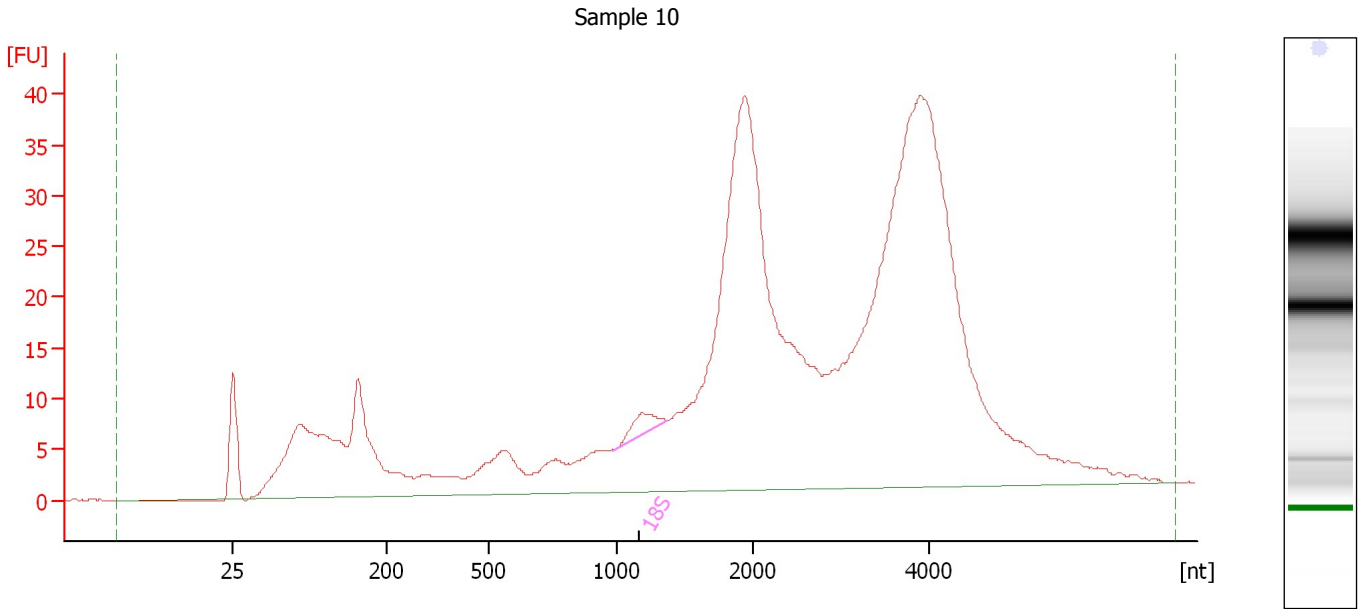
**Overall Results for sample 9 : Sample 9**

RNA Area:	35.0	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	279 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]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	812.9	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	6,484 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]:	0.0	Result Flagging Label:	RIN:9

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

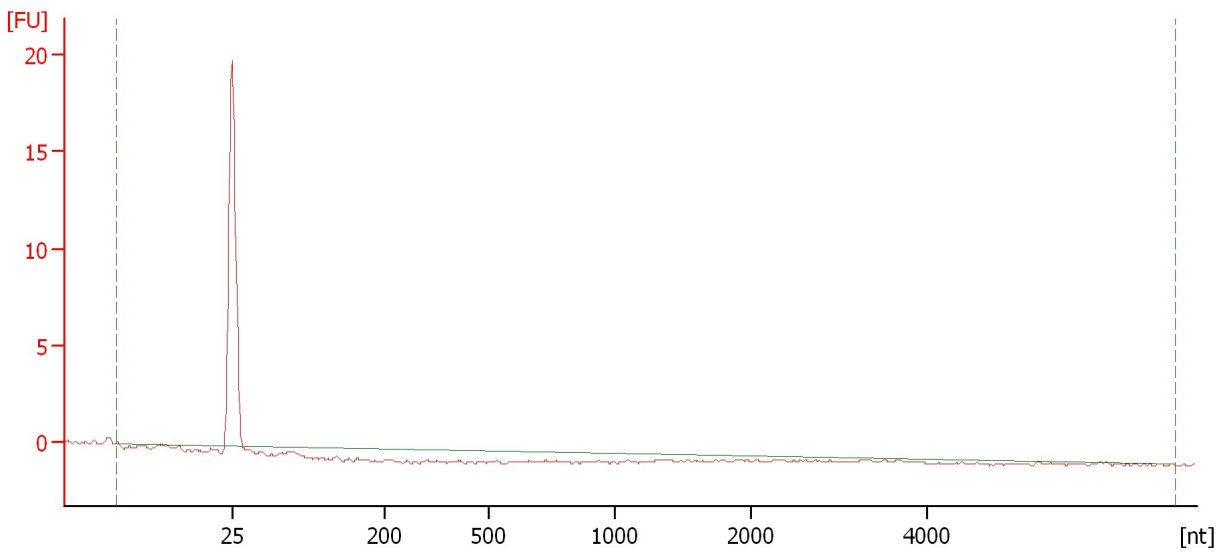
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	990	1,366	5.9	0.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Electropherogram Summary Continued ...**

Sample 11



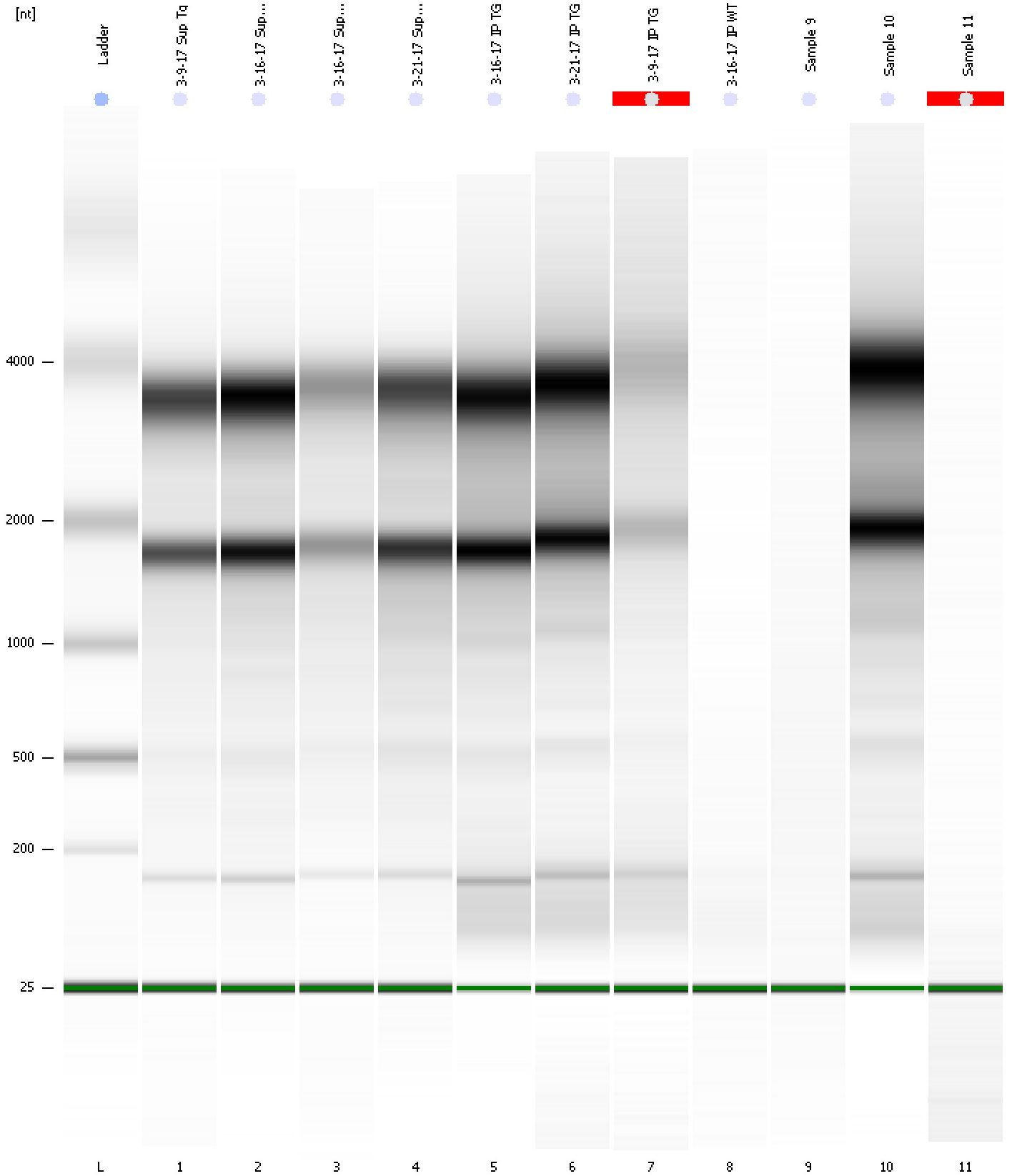
**Overall Results for sample 11 : Sample 11**

RNA Area:	0.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 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]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
Modified: 3/24/2017 4:55:15 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-03-24\2017-03-24\_002.xad

Created: 3/24/2017 4:27:03 PM  
 Modified: 3/24/2017 4:55:15 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		3/24/2017 4:49:57 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\2017-03-24\2017-03-24_002.xad)		Instrument	Run		3/24/2017 4:27:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/24/2017 4:27:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/24/2017 4:27:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/24/2017 4:27:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/24/2017 4:27:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/24/2017 4:27:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/24/2017 4:27:09 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1