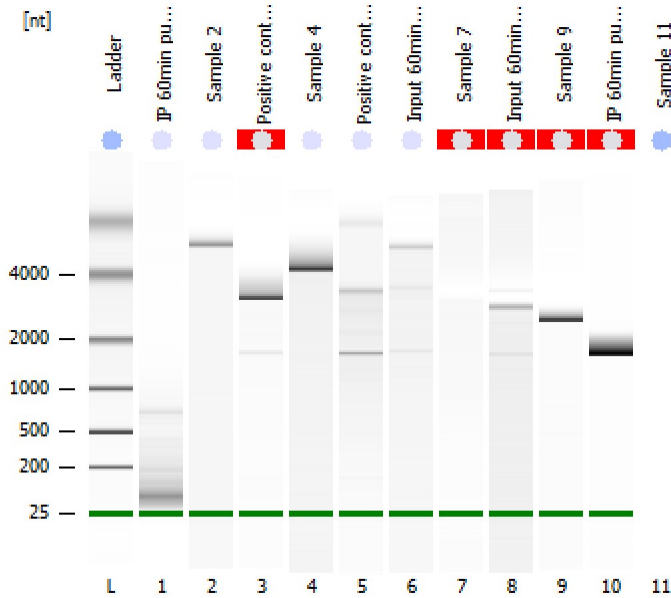


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
Modified: 3/2/2020 2:06:32 PM

Electrophoresis File Run Summary



Instrument Information:

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

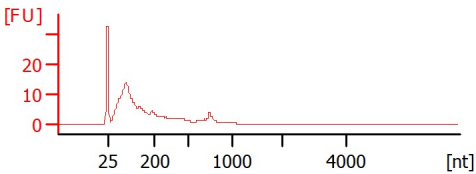
Assay Information:

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.

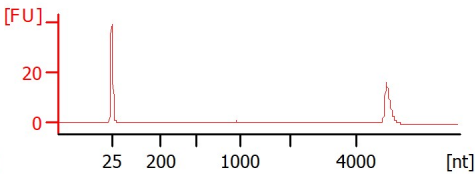
Chip Information:

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

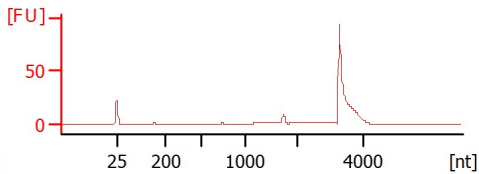
**IP 60min pup 3.2.20 Duplicate 1**  
RIN: 2.40



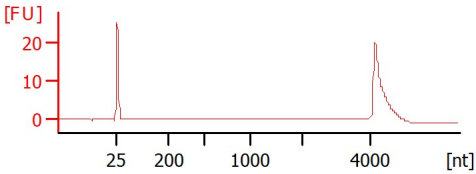
**Sample 2**  
RIN:1



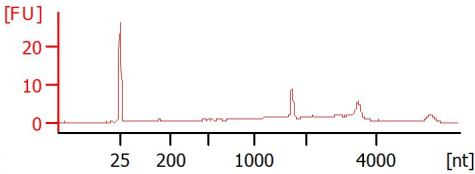
**Positive control 3.6.19 Duplicate 1**  
RIN N/A



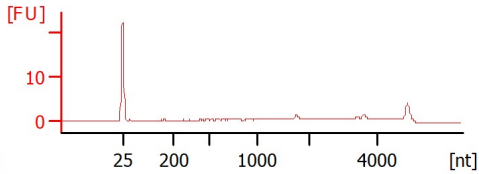
**Sample 4**  
RIN:1



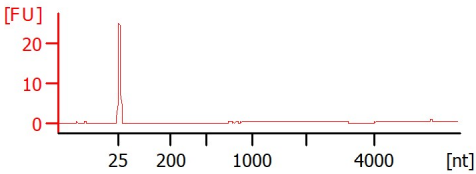
**Positive control 3.6.19 Duplicate 2**  
RIN: 6.90



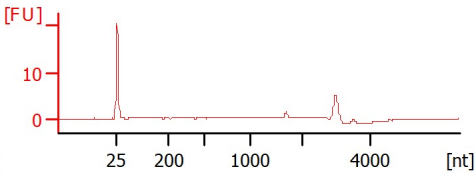
**Input 60min pup 3.2.20 Duplicate 1**  
RIN: 3.50



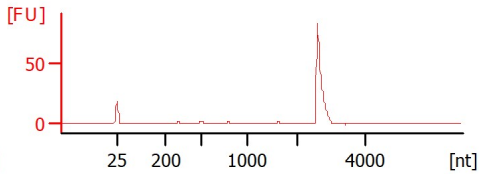
**Sample 7**  
RIN N/A



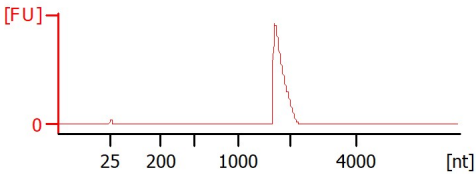
**Input 60min pup 3.2.20 Duplicate 2**  
RIN N/A



**Sample 9**  
RIN N/A



**IP 60min pup 3.2.20 Duplicate 2**  
RIN N/A



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
IP 60min pup 3.2.20 Duplicate 1		✓	RIN: 2.40	
Sample 2		✓	RIN:1	
Positive control 3.6.19 Duplicate 1		✓	RIN N/A	
Sample 4		✓	RIN:1	
Positive control 3.6.19 Duplicate 2		✓	RIN: 6.90	
Input 60min pup 3.2.20 Duplicate		✓	RIN: 3.50	
Sample 7		✓	RIN N/A	
Input 60min pup 3.2.20 Duplicate		✓	RIN N/A	
Sample 9		✓	RIN N/A	
IP 60min pup 3.2.20 Duplicate 2		✓	RIN N/A	
Sample 11				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 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

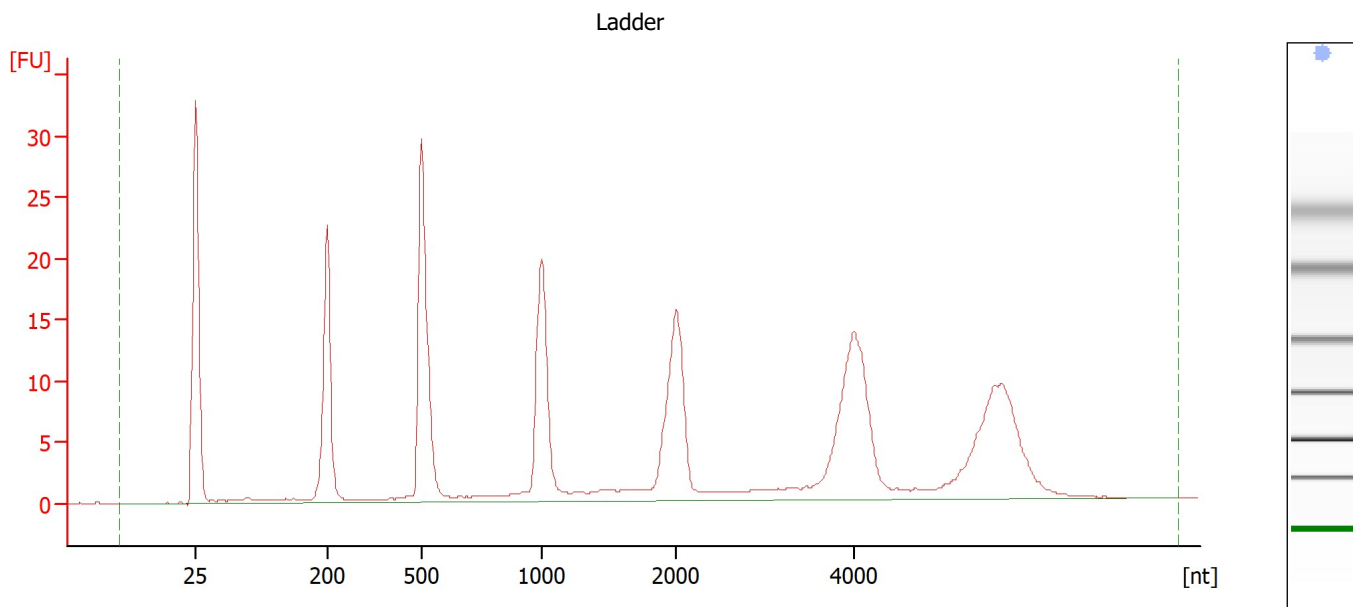
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary**



**Overall Results for Ladder**

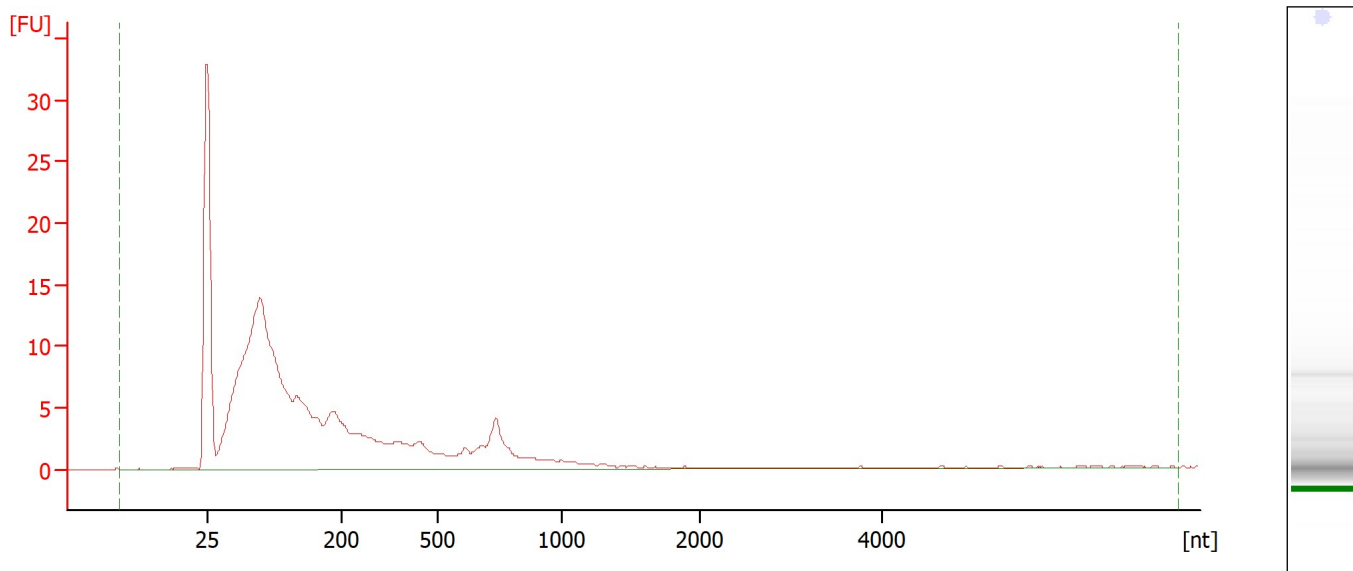
RNA Area:	246.8	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**

IP 60min pup 3.2.20 Duplicate 1



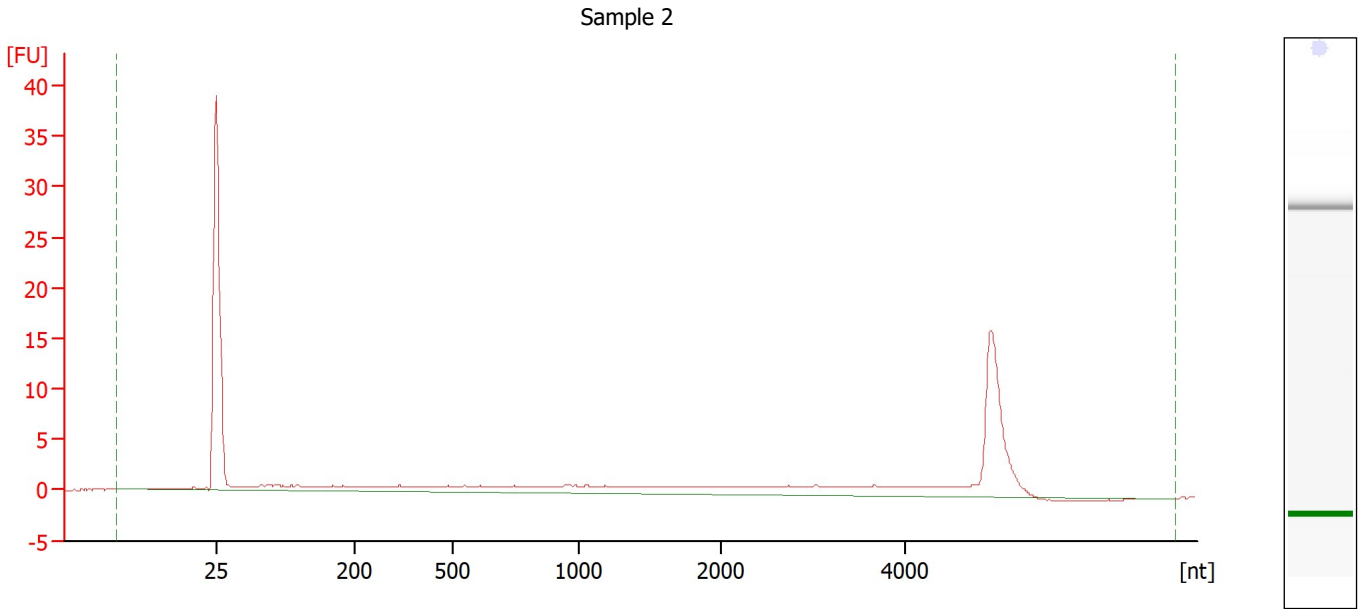
**Overall Results for sample 1 : IP 60min pup 3.2.20 Duplicate 1**

RNA Area:	204.2	RNA Integrity Number (RIN):	2.4 (B.02.10)
RNA Concentration:	827 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: 2.40

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**



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

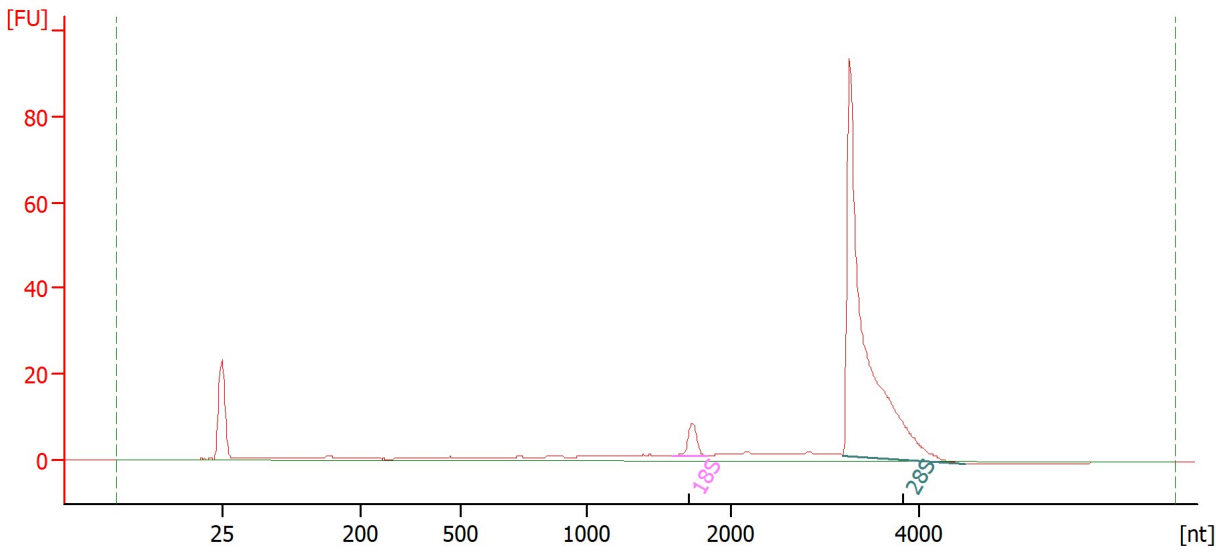
RNA Area:	85.4	RNA Integrity Number (RIN):	1 (B.02.10)
RNA Concentration:	346 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**

Positive control 3.6.19 Duplicate 1



**Overall Results for sample 3 : Positive control 3.6.19 Duplicate 1**

RNA Area:	220.6	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	894 µg/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]:	19.6	Result Flagging Label:	RIN N/A

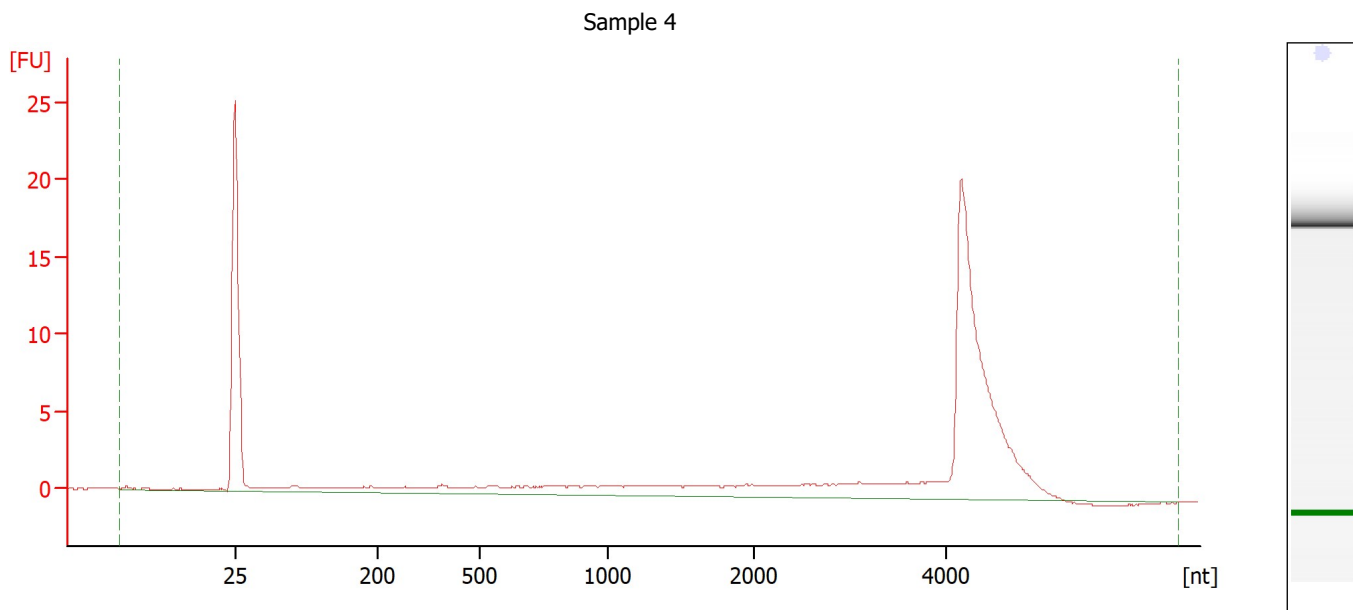
**Fragment table for sample 3 : Positive control 3.6.19 Duplicate 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,595	1,833	7.6	3.4
28S	3,202	4,499	149.2	67.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	93.5	RNA Integrity Number (RIN):	1 (B.02.10)
RNA Concentration:	379 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

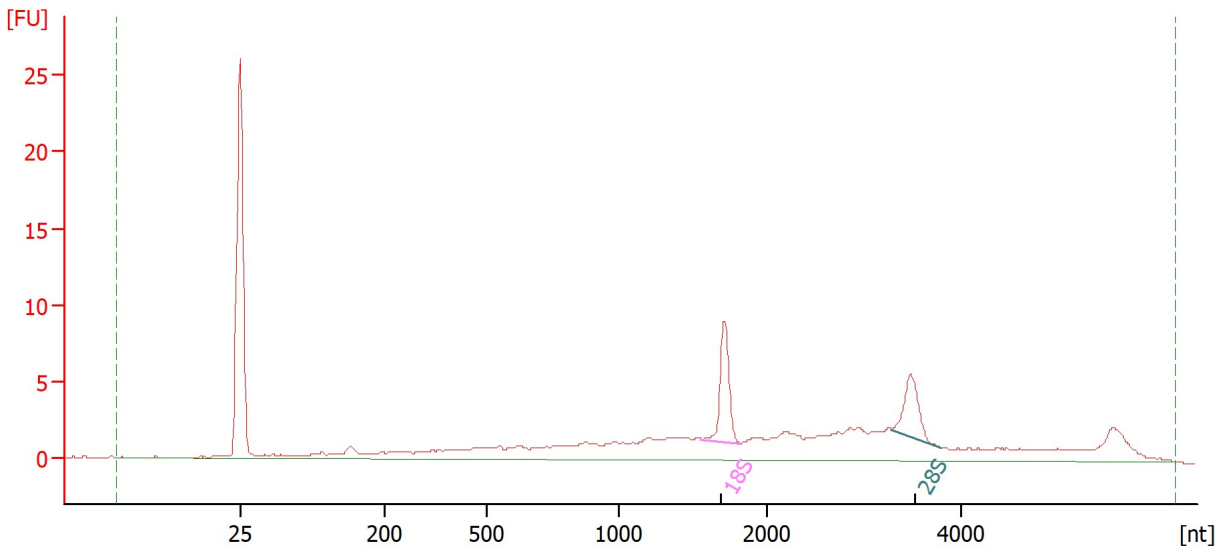


Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**

Positive control 3.6.19 Duplicate 2



**Overall Results for sample 5 : Positive control 3.6.19 Duplicate 2**

RNA Area:	97.0	RNA Integrity Number (RIN):	6.9 (B.02.10)
RNA Concentration:	393 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: 6.90

**Fragment table for sample 5 : Positive control 3.6.19 Duplicate 2**

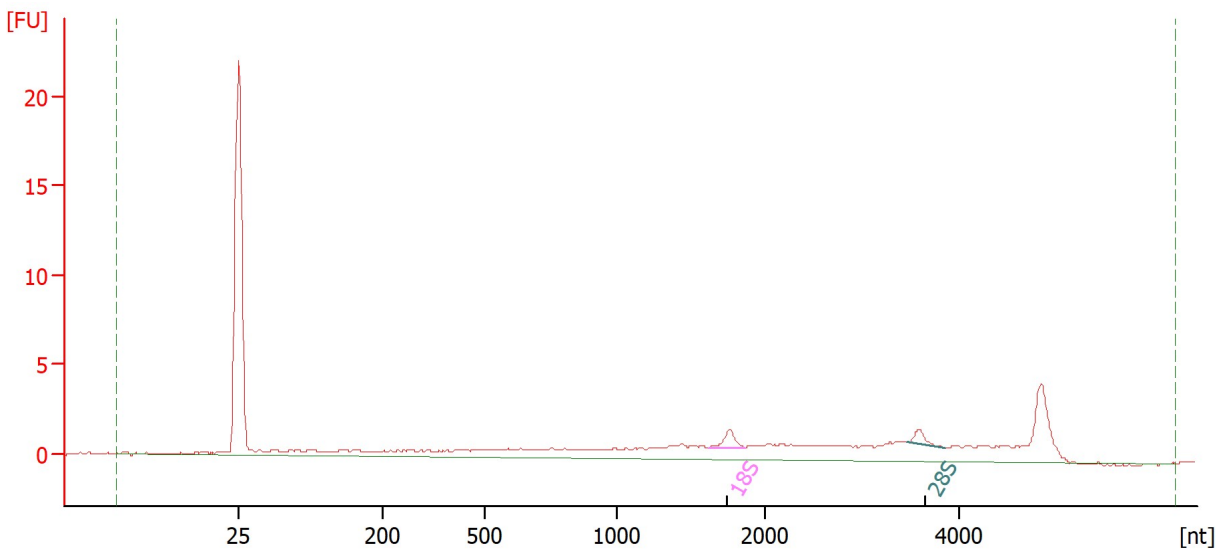
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,561	1,827	7.7	7.9
28S	3,287	3,793	5.5	5.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**

Input 60min pup 3.2.20 Duplicate 1



**Overall Results for sample 6 : Input 60min pup 3.2.20 Duplicate 1**

RNA Area:	51.6	RNA Integrity Number (RIN):	3.5 (B.02.10)
RNA Concentration:	209 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]:	0.7	Result Flagging Label:	RIN: 3.50

**Fragment table for sample 6 : Input 60min pup 3.2.20 Duplicate 1**

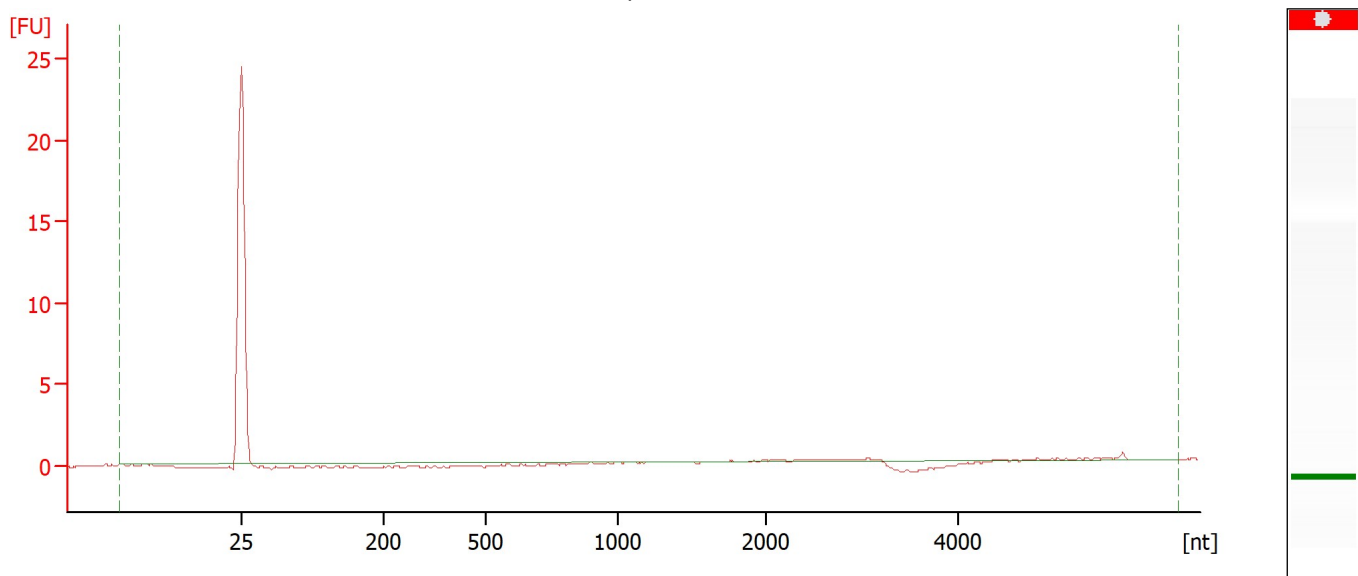
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,863	1.2	2.3
28S	3,477	3,862	0.8	1.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**

Sample 7



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

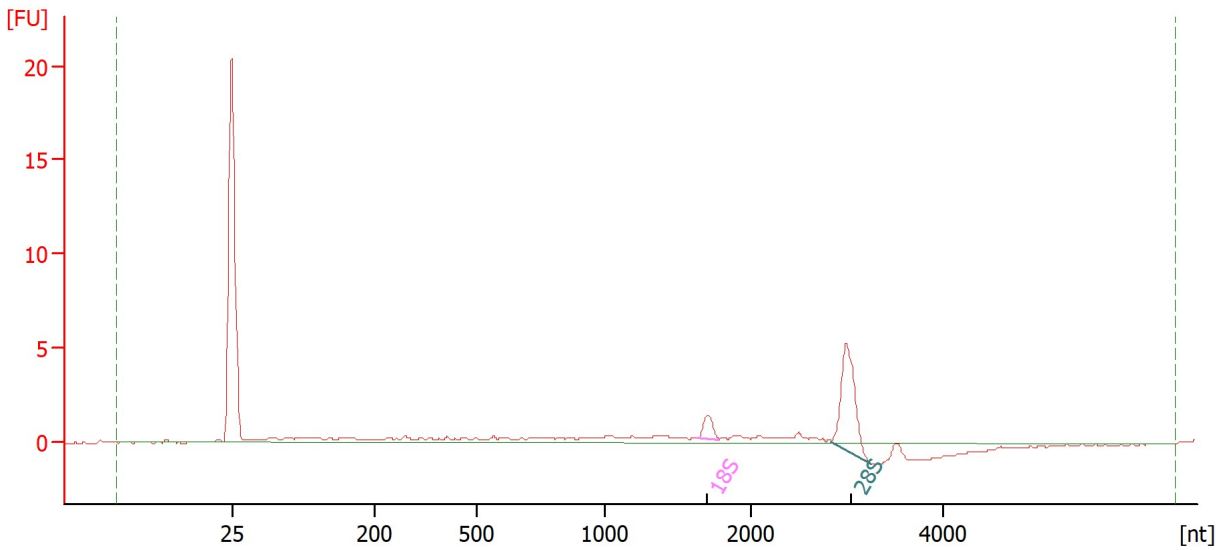
RNA Area:	1.2	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	5 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**

Input 60min pup 3.2.20 Duplicate 2



**Overall Results for sample 8 : Input 60min pup 3.2.20 Duplicate 2**

RNA Area:	24.7	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	100 µg/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]:	6.3	Result Flagging Label:	RIN N/A

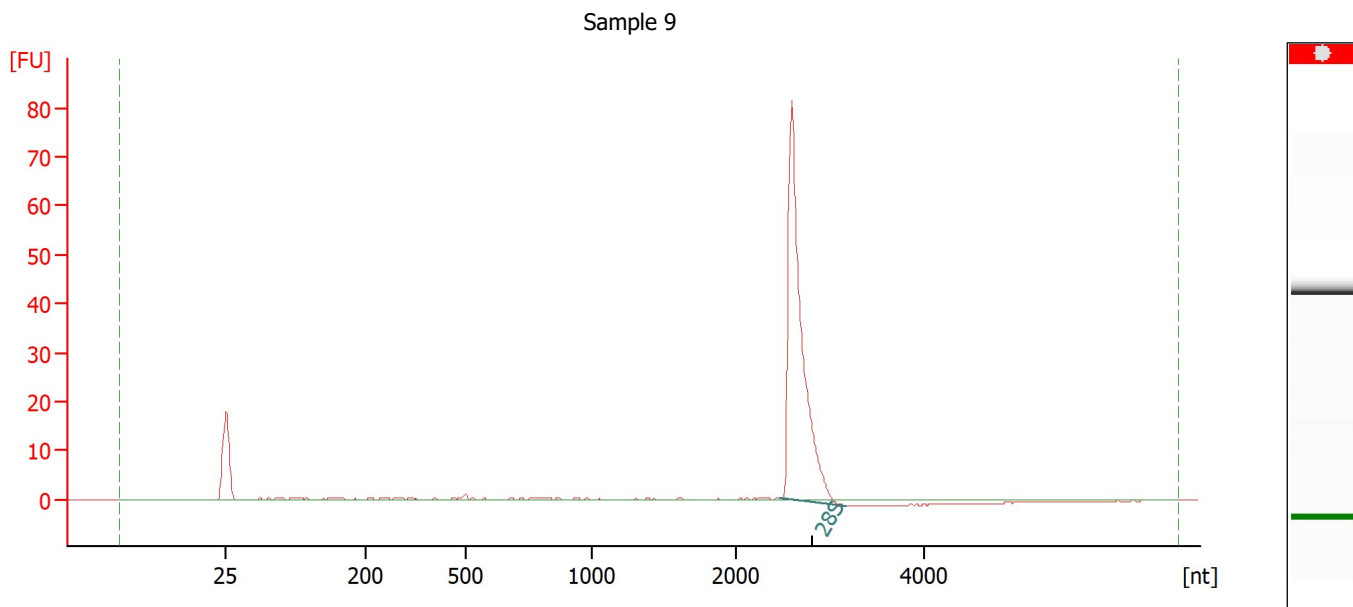
**Fragment table for sample 8 : Input 60min pup 3.2.20 Duplicate 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,780	1.2	5.0
28S	2,835	3,236	7.9	31.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**



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

RNA Area:	122.3	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	496 µg/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

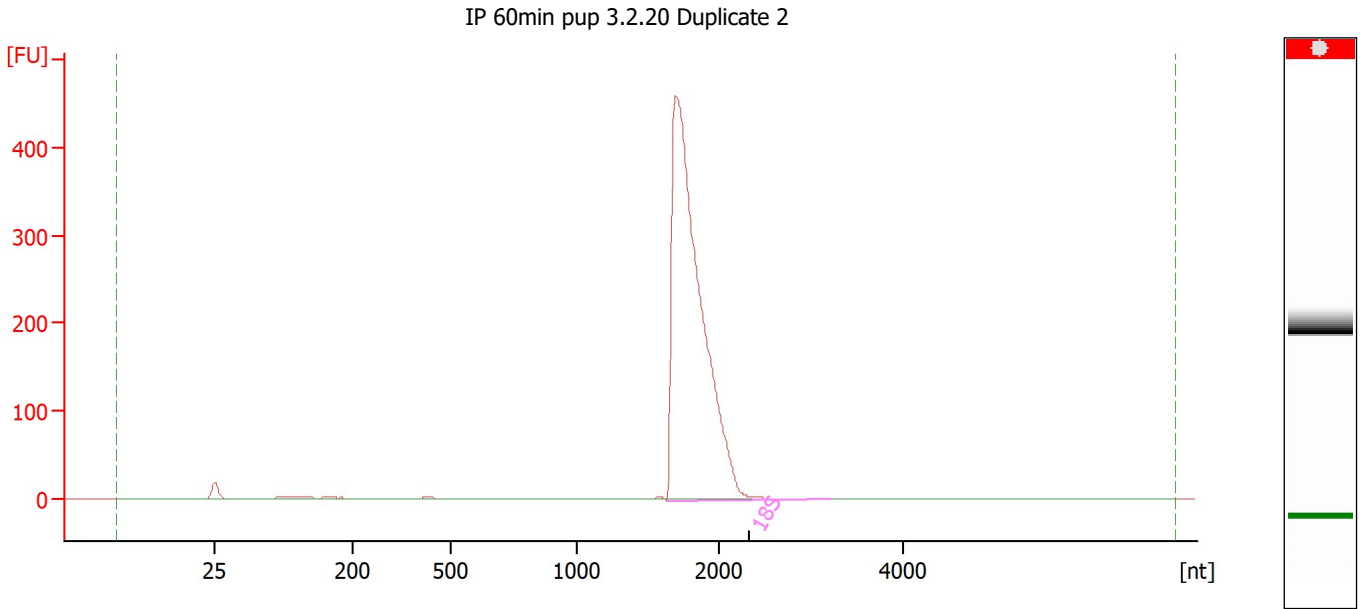
**Fragment table for sample 9 : Sample 9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,461	3,177	111.4	91.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
 Modified: 3/2/2020 2:06:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : IP 60min pup 3.2.20 Duplicate 2**

RNA Area:	1,540.0	RNA Integrity Number (RIN):	N/A (B.02.10)
RNA Concentration:	6,241 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

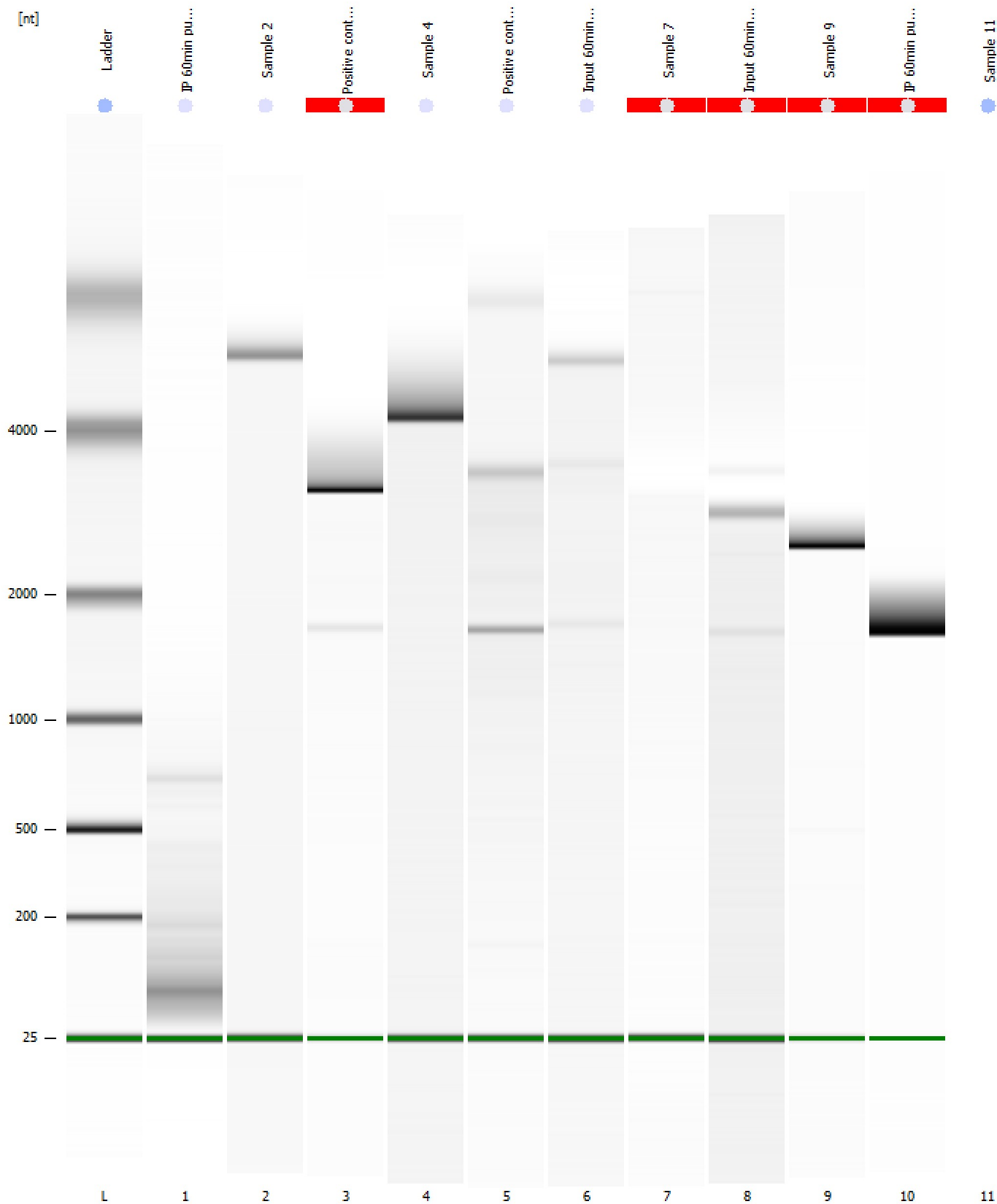
**Fragment table for sample 10 : IP 60min pup 3.2.20 Duplicate 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	3,215	1,536.4	99.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
Modified: 3/2/2020 2:06:32 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad

Created: 3/2/2020 1:45:01 PM  
Modified: 3/2/2020 2:06:32 PM

**Invalid Samples**

Sample 11 has not been run, no results available.



Assay Class: Eukaryote Total RNA Pico Created: 3/2/2020 1:45:01 PM  
 Data Path: Z:\...02\Bioanalyzer1\_Eukaryote Total RNA Pico\_2020-03-02\_004.xad Modified: 3/2/2020 2:06:32 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		3/2/2020 2:06:31 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-03-02\Bioanalyze r1_Eukaryote Total RNA Pico_2020-03-02_004.xad)		Instrument	Run		3/2/2020 1:45:06 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		3/2/2020 1:45:06 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		3/2/2020 1:45:06 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		3/2/2020 1:45:06 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		3/2/2020 1:45:06 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		3/2/2020 1:45:06 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		3/2/2020 1:45:06 PM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB