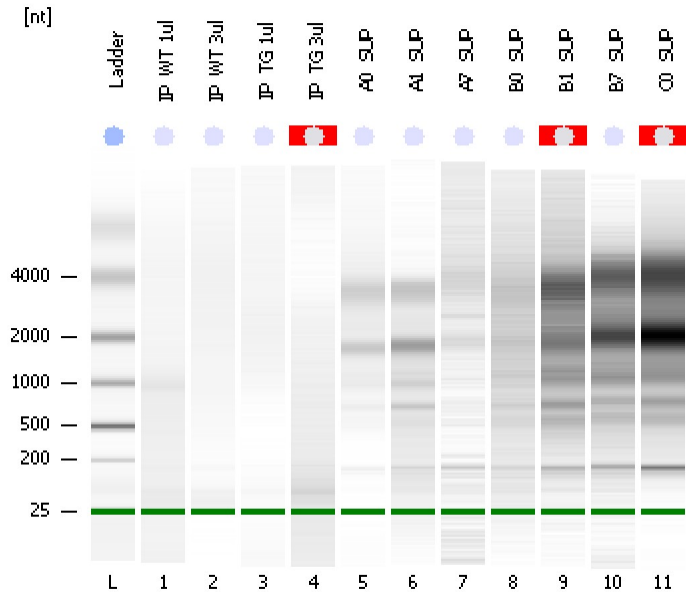


Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
 Modified: 2/2/2017 12:13:32 PM

**Electrophoresis File Run Summary**



Instrument Information:

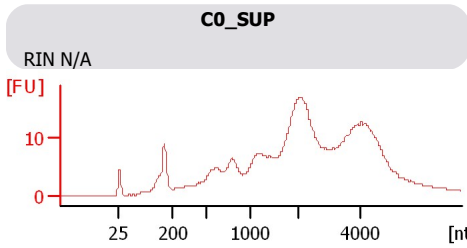
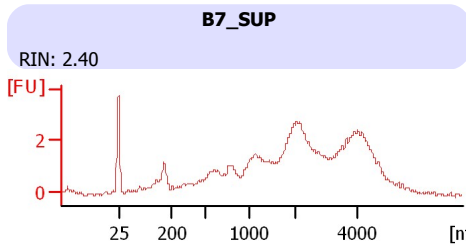
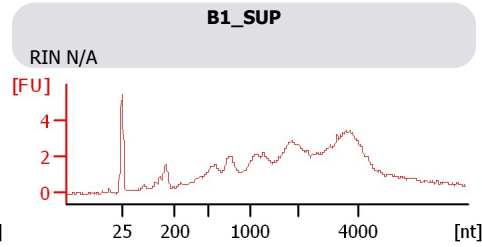
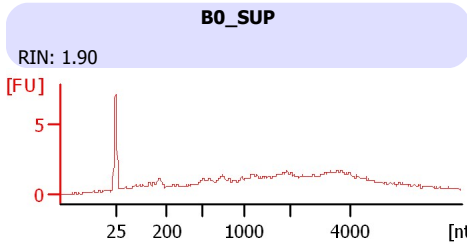
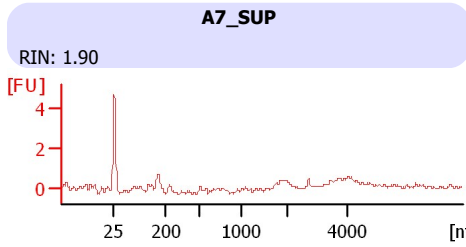
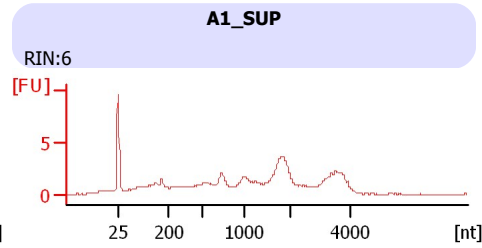
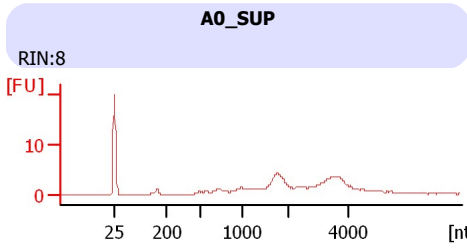
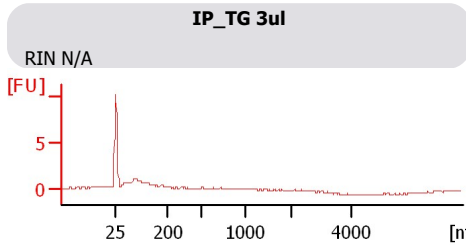
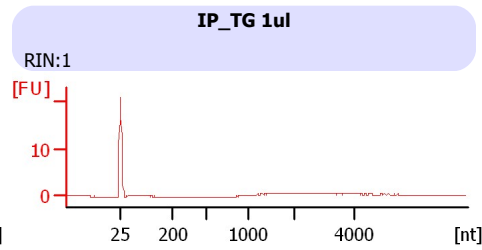
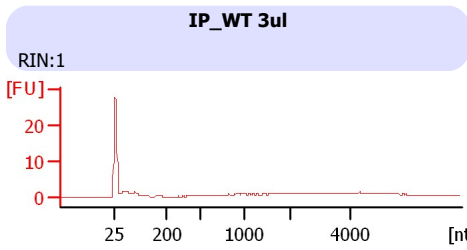
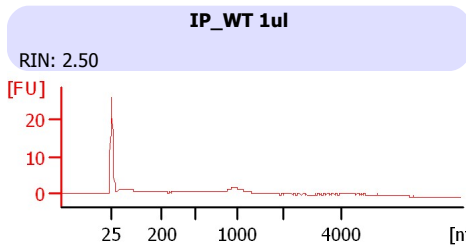
Instrument Name: DE13701086      Firmware: C.01.069  
 Serial#: DE13701086      Type: G2938B

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:



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
 Modified: 2/2/2017 12:13:32 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
IP_WT 1ul		✓	RIN: 2.50	
IP_WT 3ul		✓	RIN:1	
IP_TG 1ul		✓	RIN:1	
IP_TG 3ul		✓	RIN N/A	
A0_SUP		✓	RIN:8	
A1_SUP		✓	RIN:6	
A7_SUP		✓	RIN: 1.90	
B0_SUP		✓	RIN: 1.90	
B1_SUP		✓	RIN N/A	
B7_SUP		✓	RIN: 2.40	
C0_SUP		✓	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\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 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

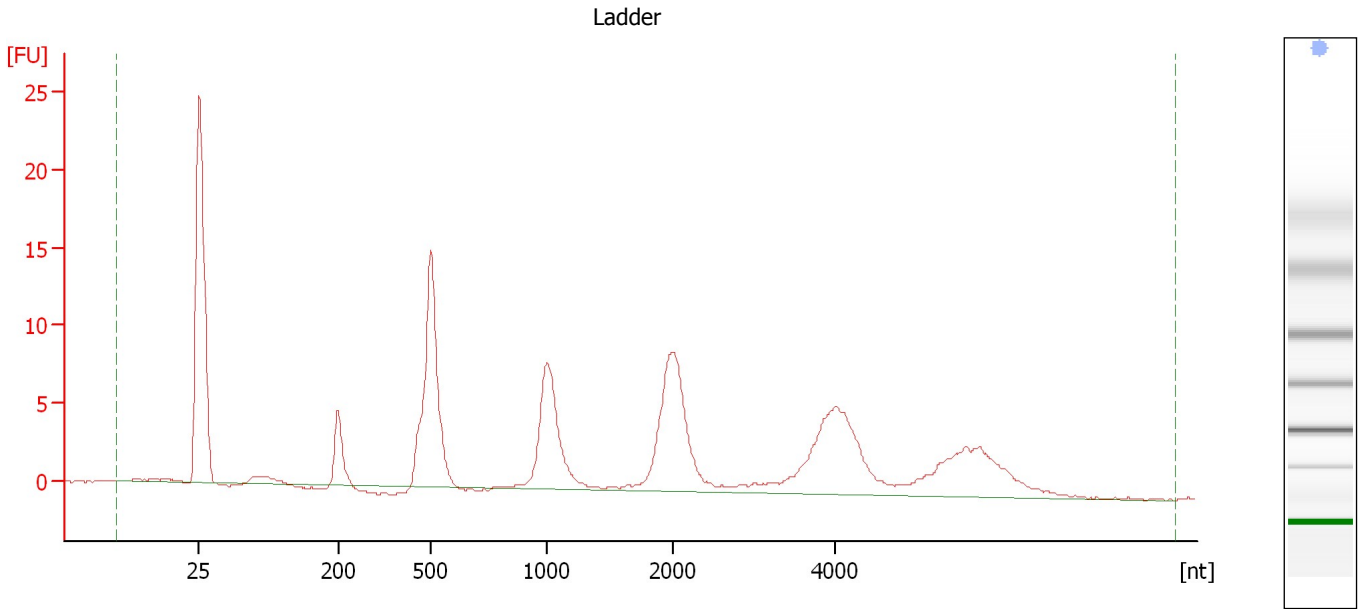
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary**



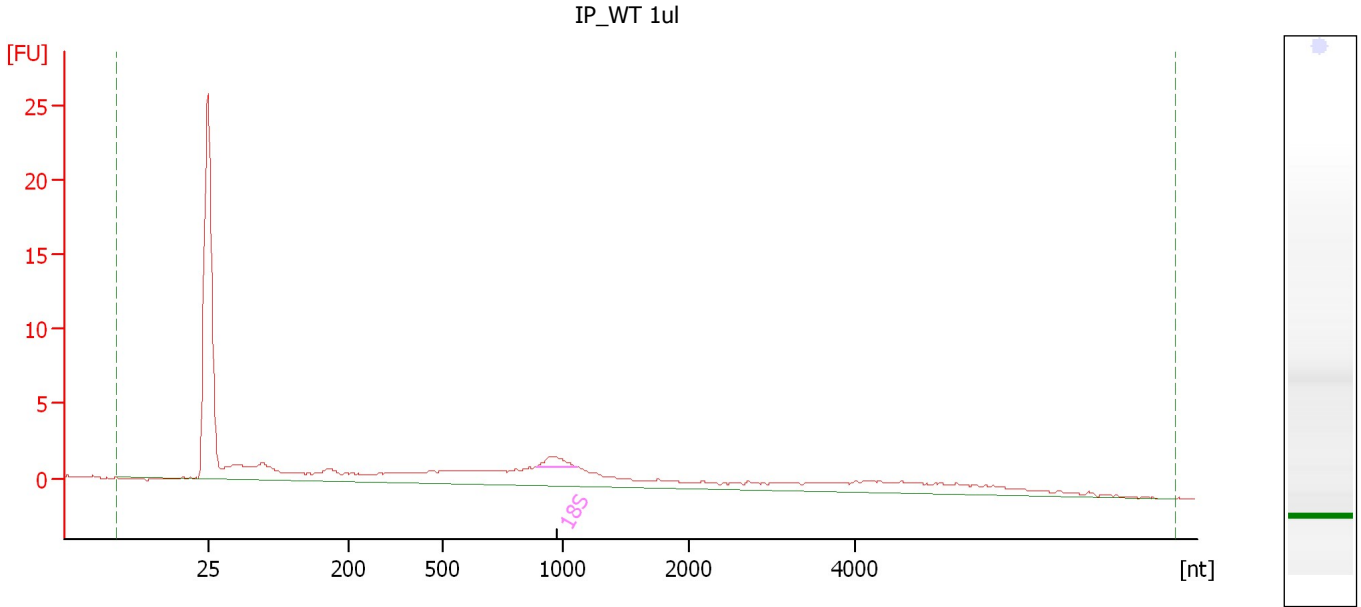
**Overall Results for Ladder**

RNA Area:	143.0	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\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : IP\_WT 1ul**

RNA Area:	70.1	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	490 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: 2.50

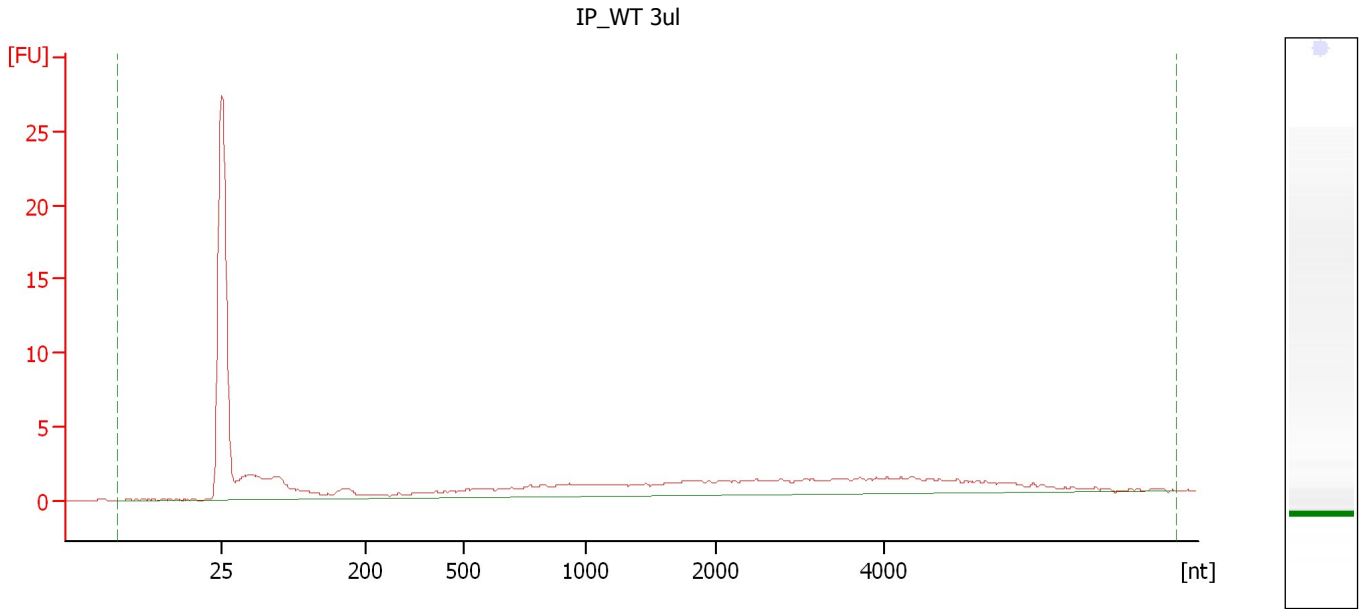
**Fragment table for sample 1 : IP\_WT 1ul**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	889	1,112	1.7	2.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



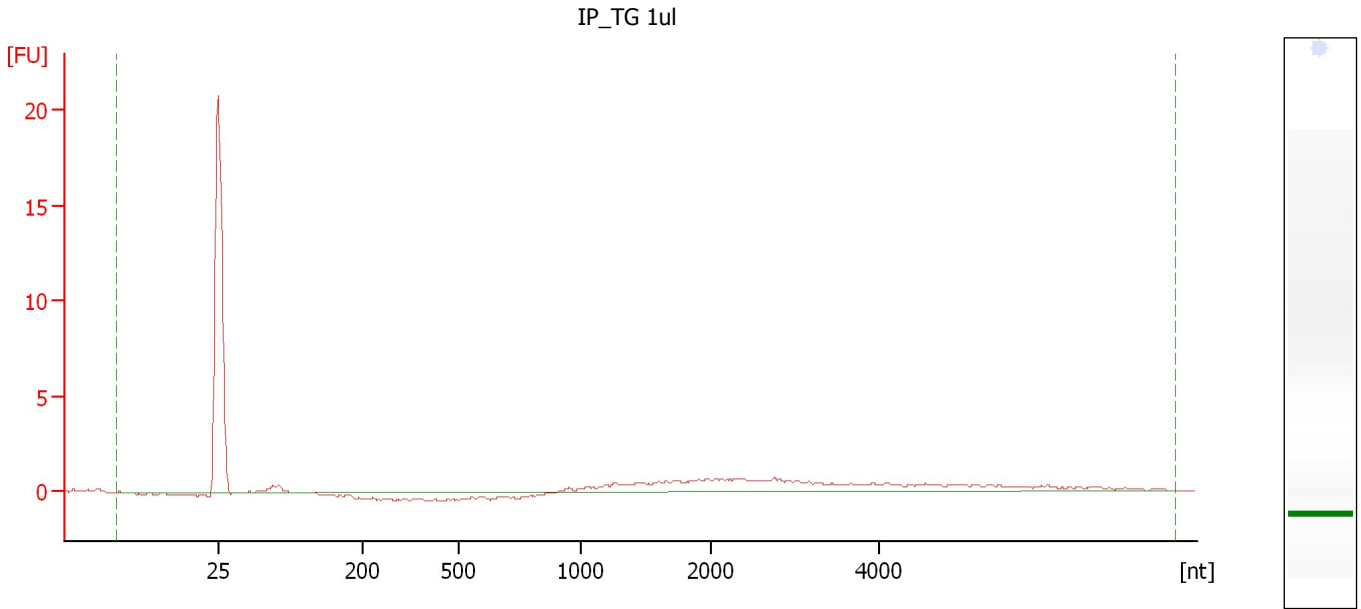
**Overall Results for sample 2 : IP\_WT 3ul**

RNA Area:	67.5	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	472 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:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



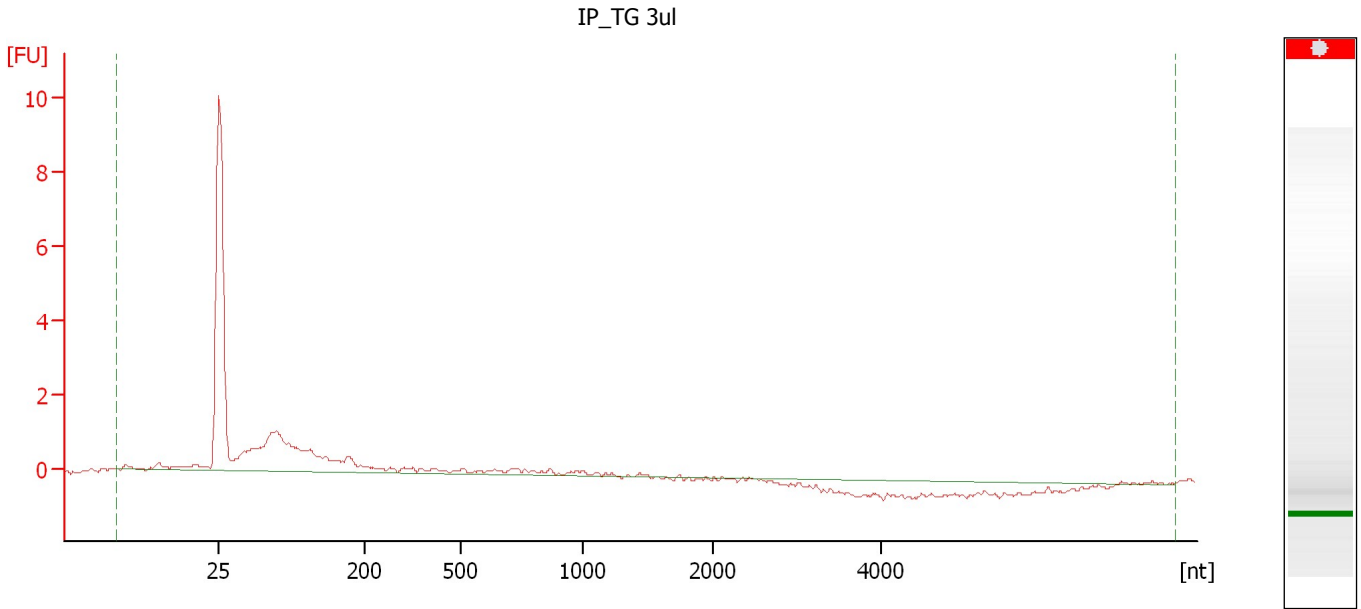
**Overall Results for sample 3 : IP\_TG 1ul**

RNA Area:	19.0	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	133 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:1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : IP\_TG 3ul**

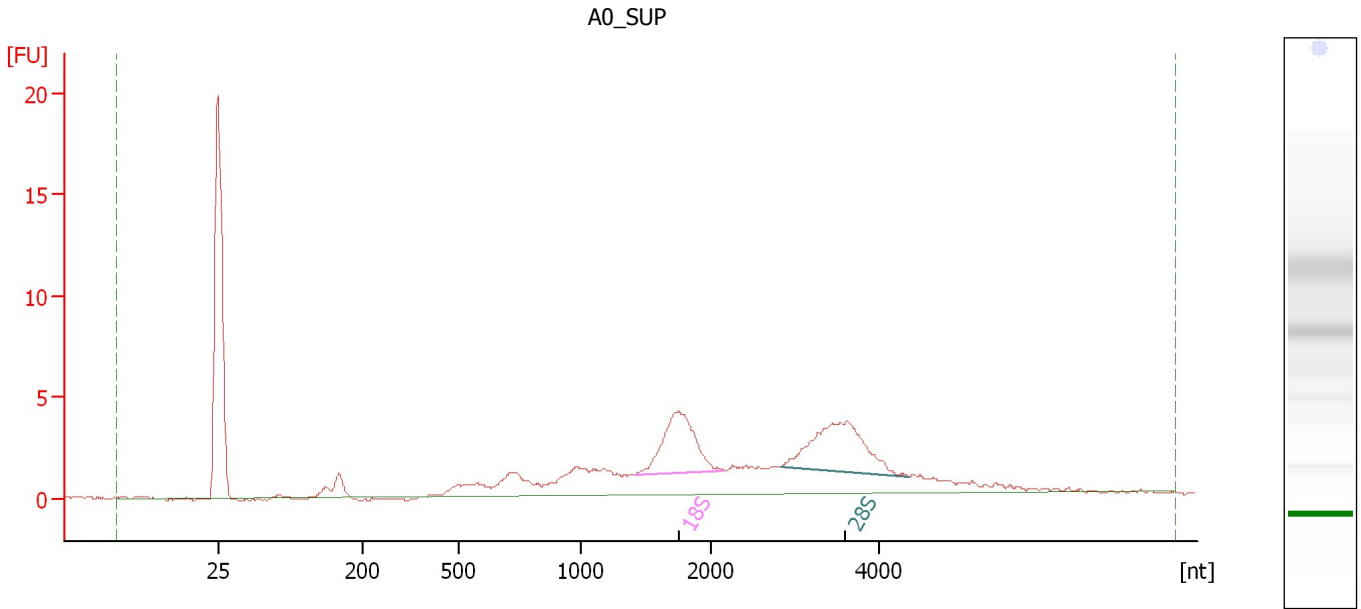
RNA Area:	15.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	108 µg/µl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
 Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : A0\_SUP**

RNA Area:	80.5	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	563 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:8

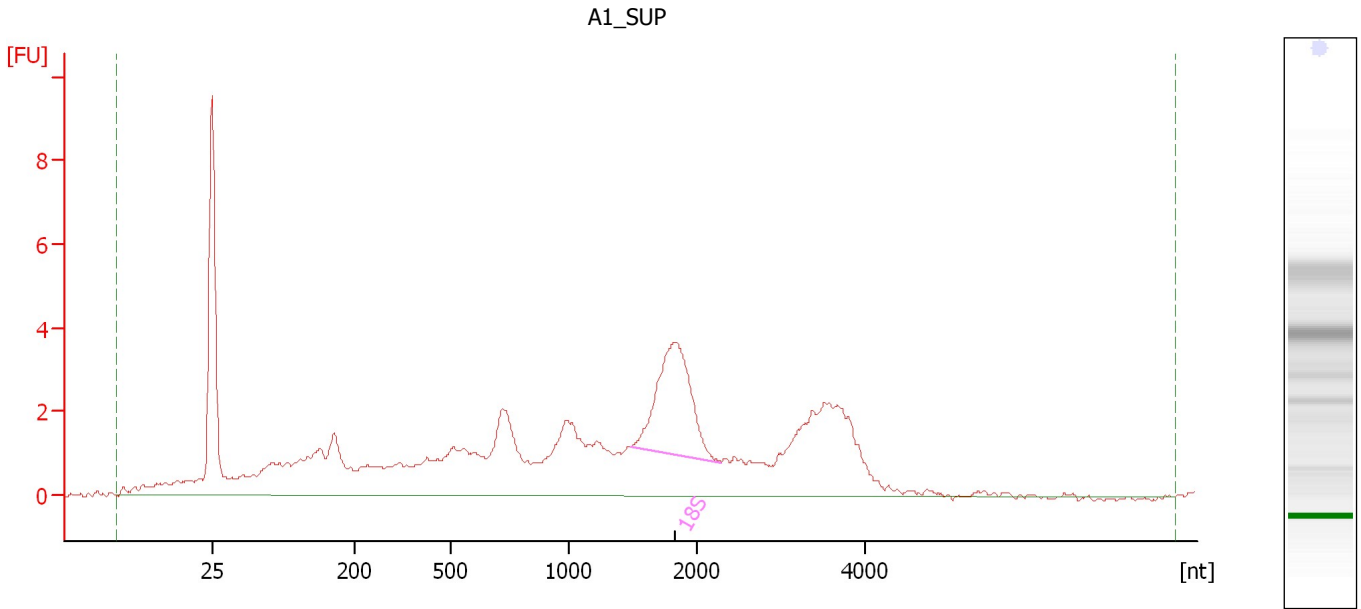
**Fragment table for sample 5 : A0\_SUP**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,423	2,151	11.4	14.1
28S	2,847	4,368	13.6	16.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
 Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : A1\_SUP**

RNA Area:	97.7	RNA Integrity Number (RIN):	6 (B.02.08)
RNA Concentration:	683 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:6

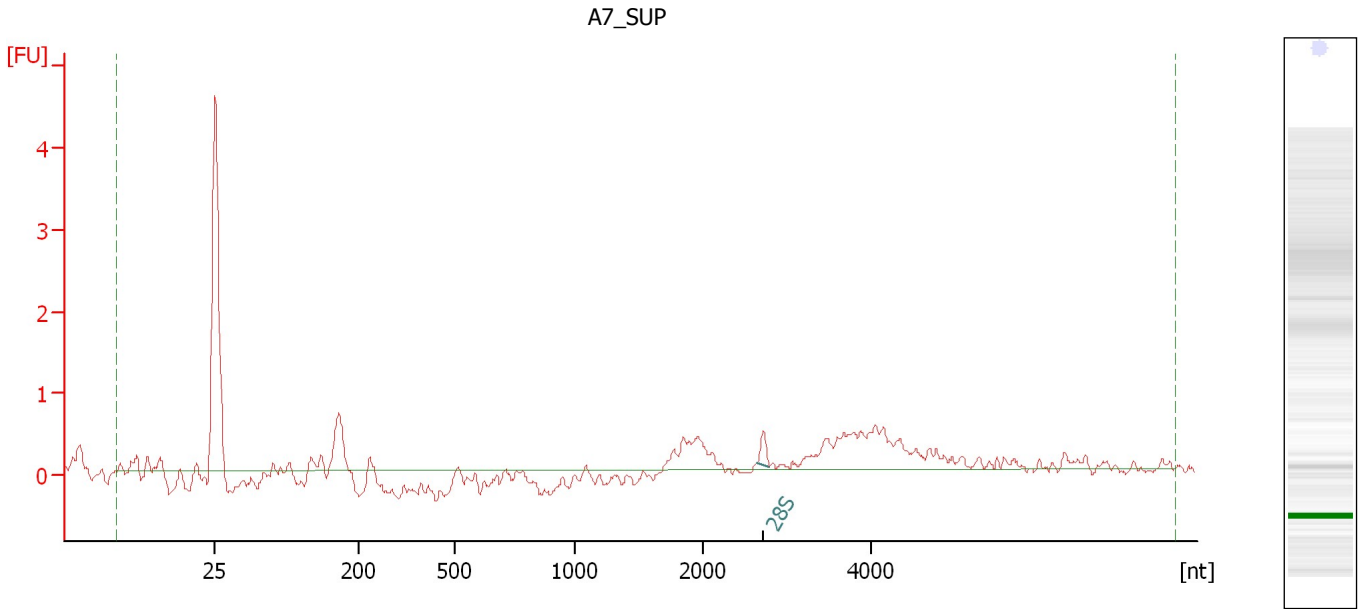
**Fragment table for sample 6 : A1\_SUP**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,480	2,290	10.9	11.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : A7\_SUP**

RNA Area:	9.4	RNA Integrity Number (RIN):	1.9 (B.02.08)
RNA Concentration:	66 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: 1.90

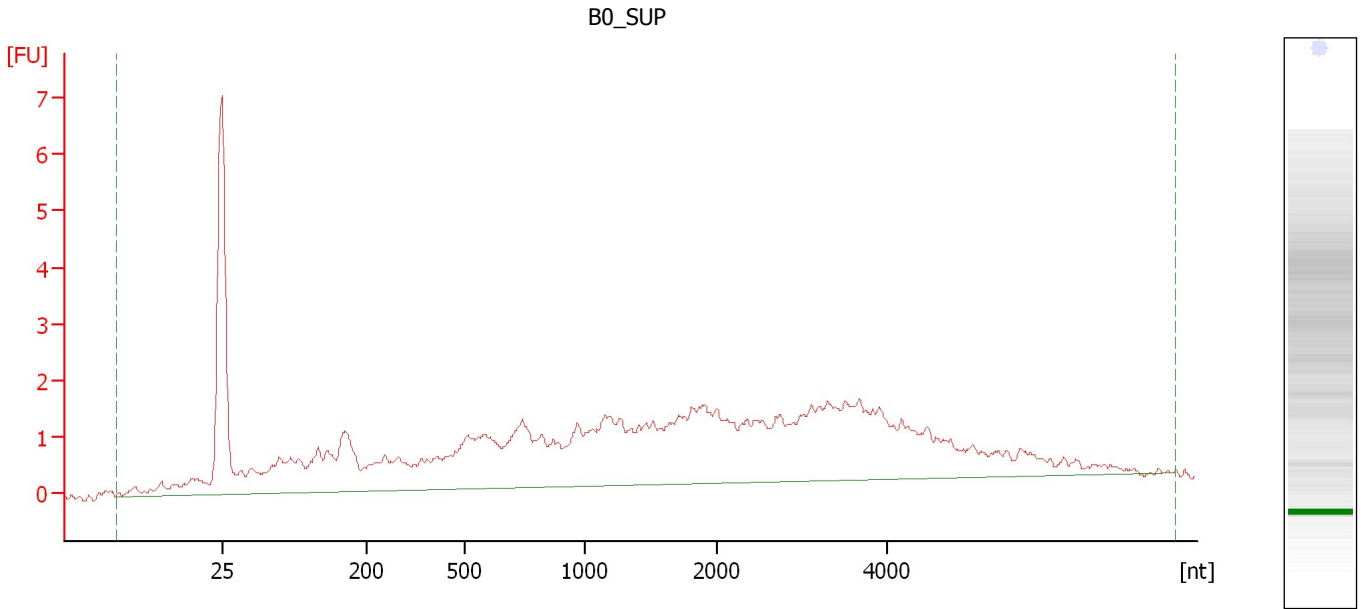
**Fragment table for sample 7 : A7\_SUP**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,634	2,787	0.3	2.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



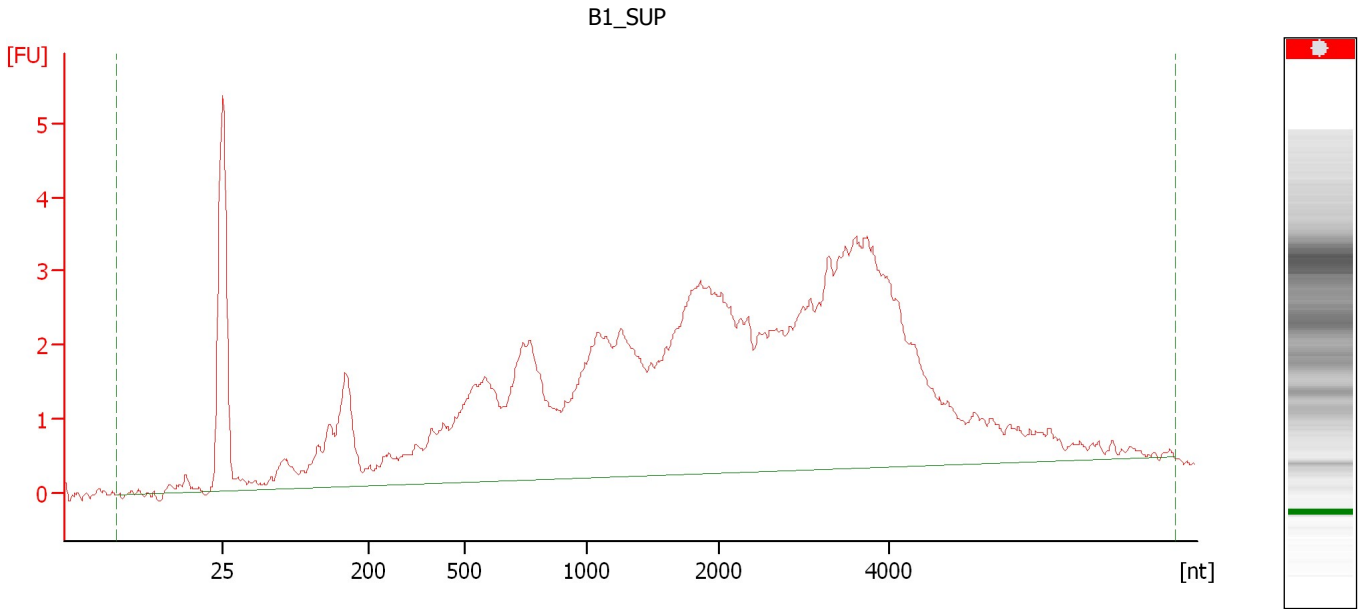
**Overall Results for sample 8 : B0\_SUP**

RNA Area:	78.9	RNA Integrity Number (RIN):	1.9 (B.02.08)
RNA Concentration:	552 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: 1.90

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



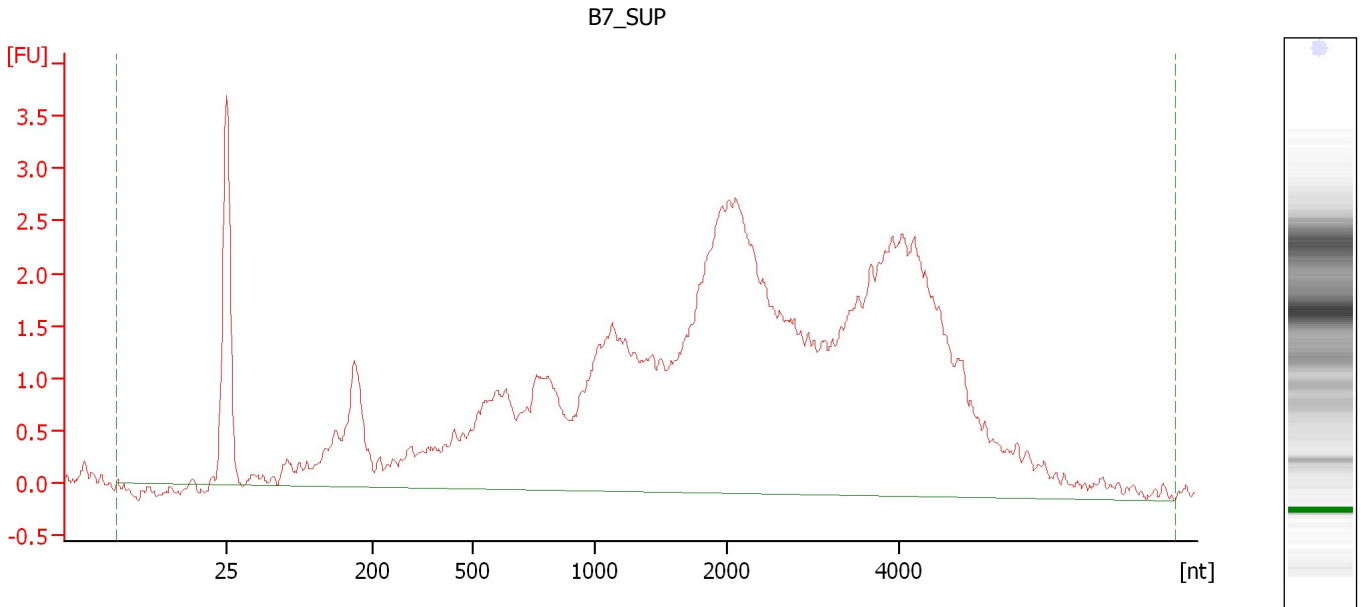
**Overall Results for sample 9 : B1\_SUP**

RNA Area:	111.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	782 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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



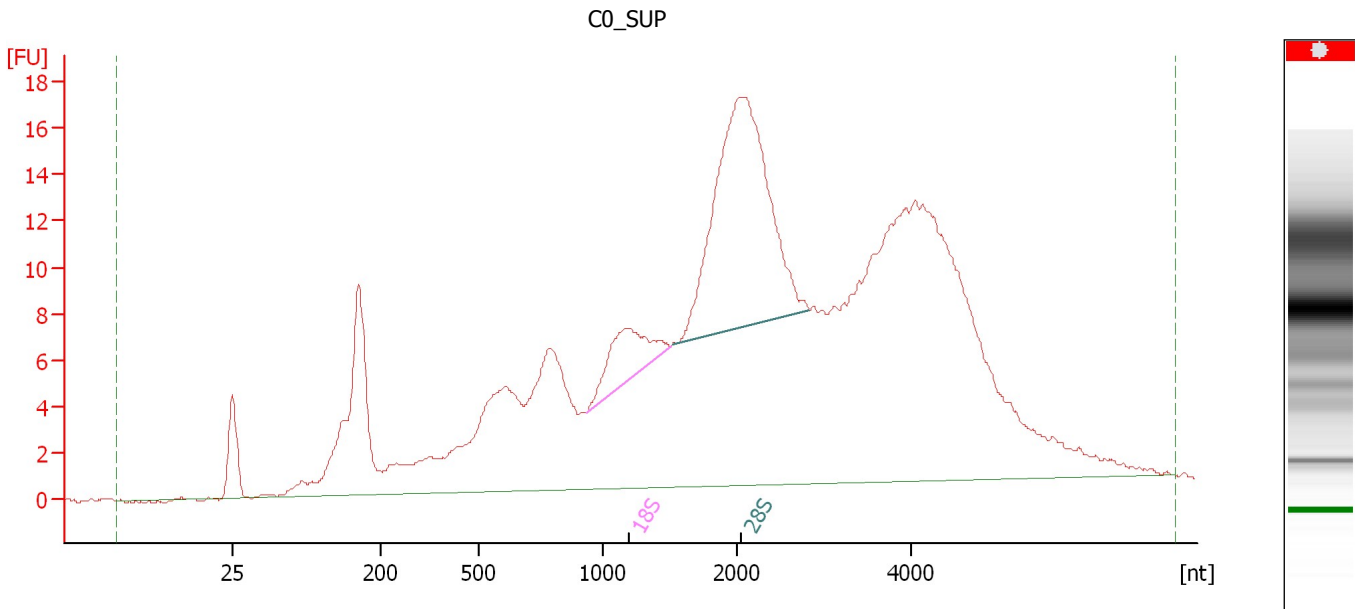
**Overall Results for sample 10 : B7\_SUP**

RNA Area:	90.4	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	632 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: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
 Modified: 2/2/2017 12:13:32 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : CO\_SUP**

RNA Area:	470.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,292 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]:	5.4	Result Flagging Label:	RIN N/A

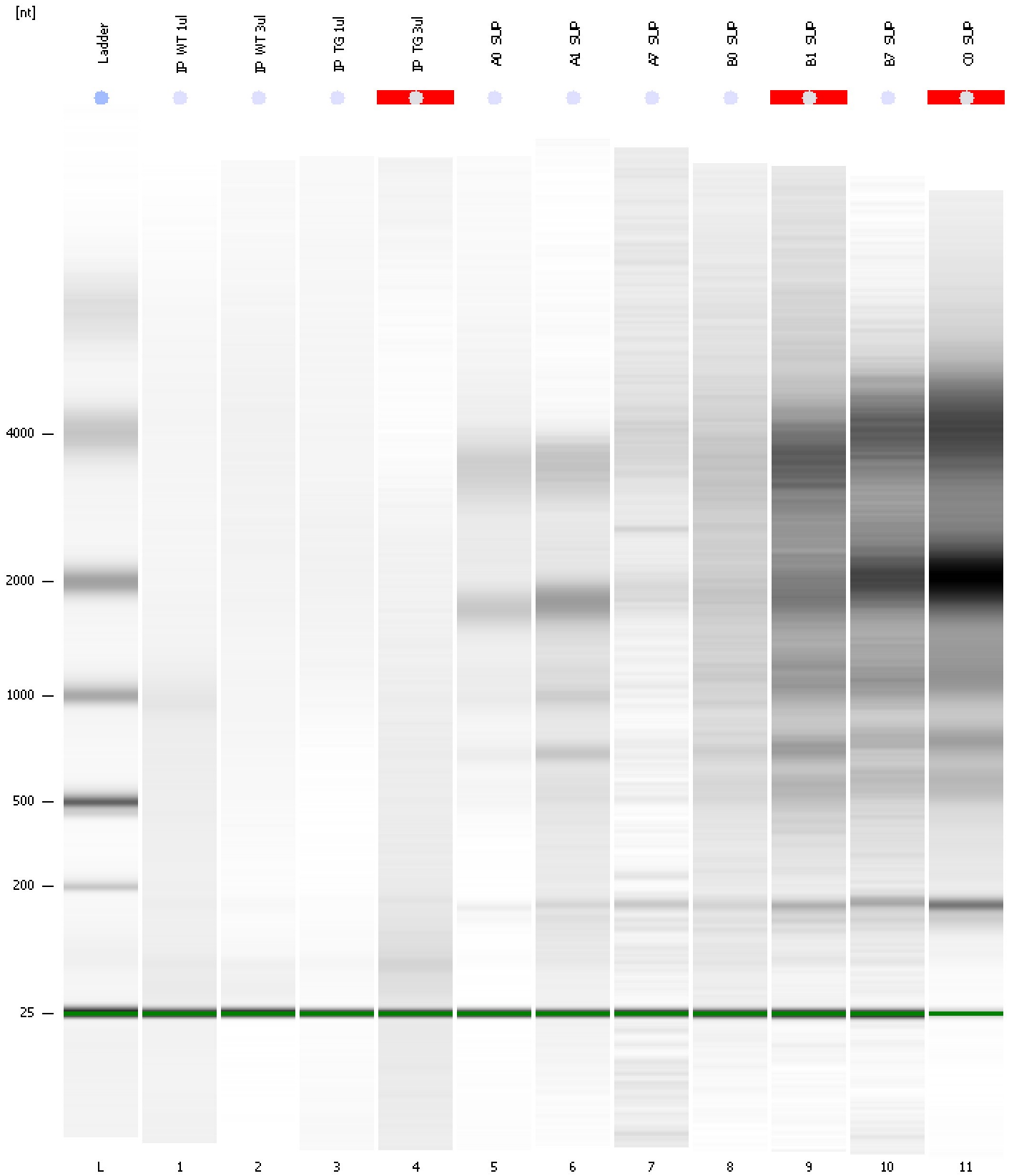
**Fragment table for sample 11 : CO\_SUP**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	932	1,499	11.1	2.4
28S	1,515	2,834	60.0	12.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
Modified: 2/2/2017 12:13:32 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-02-02\2017-02-02\_002.xad

Created: 2/2/2017 11:50:37 AM  
 Modified: 2/2/2017 12:13:32 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		2/2/2017 12:13:32 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-02-02\2017-02-02_002.xad)		Instrument	Run		2/2/2017 11:50:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/2/2017 11:50:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/2/2017 11:50:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/2/2017 11:50:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/2/2017 11:50:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/2/2017 11:50:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/2/2017 11:50:43 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1