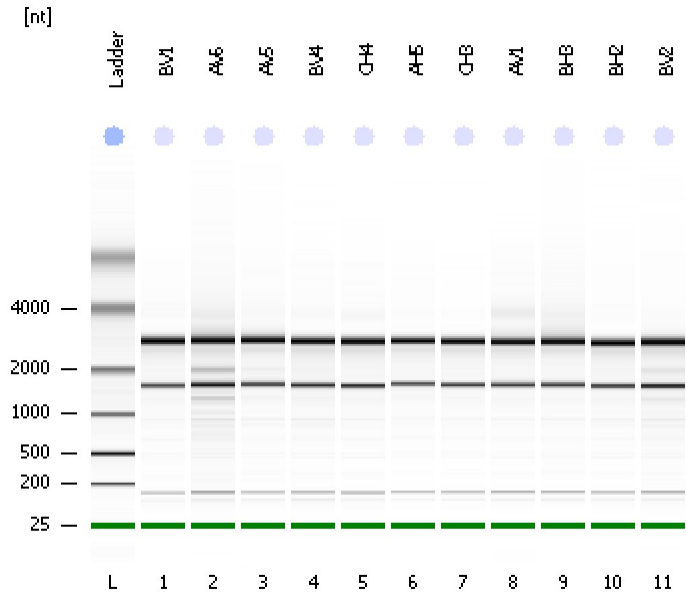


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 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:



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
 Modified: 8/23/2019 10:43:35 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
BV1		✓	RIN: 9.70	
AV6		✓	RIN: 8.20	
AV5		✓	RIN: 9.30	
BV4		✓	RIN: 9.10	
CH4		✓	RIN: 9.30	
AH5		✓	RIN: 9.60	
CH3		✓	RIN: 9.60	
AV1		✓	RIN: 9.40	
BH3		✓	RIN: 9.50	
BH2		✓	RIN: 9.40	
BV2		✓	RIN: 9.10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 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/ $\mu$ 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

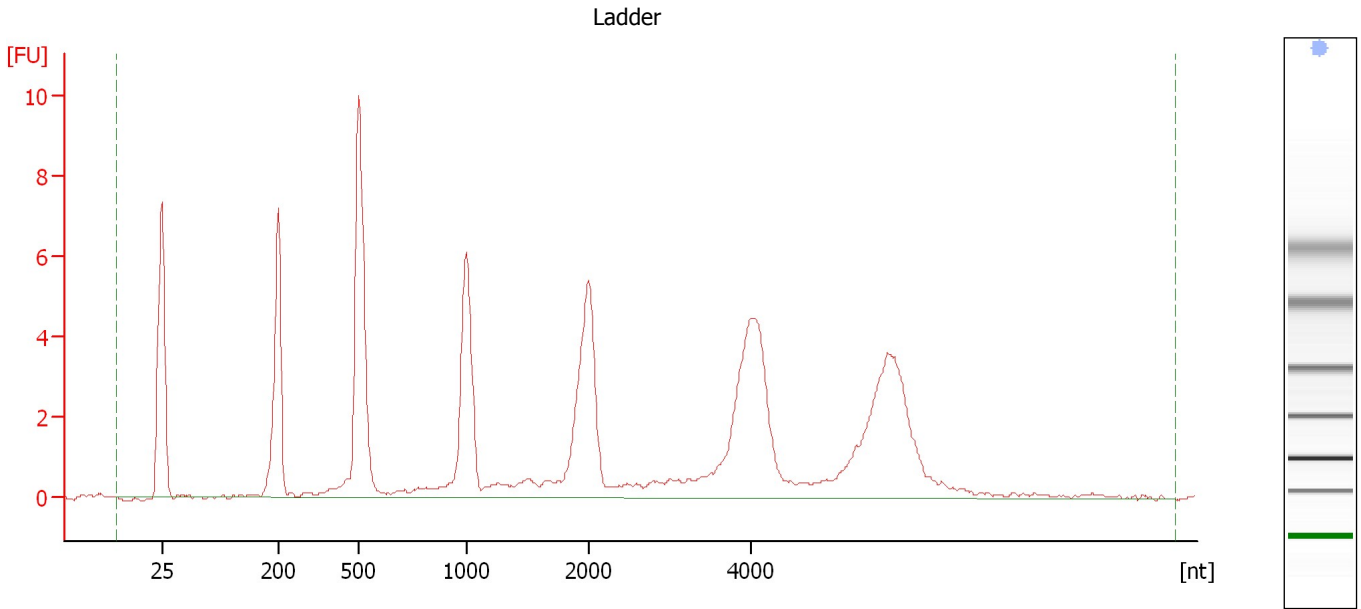
**Ladder**

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\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary**



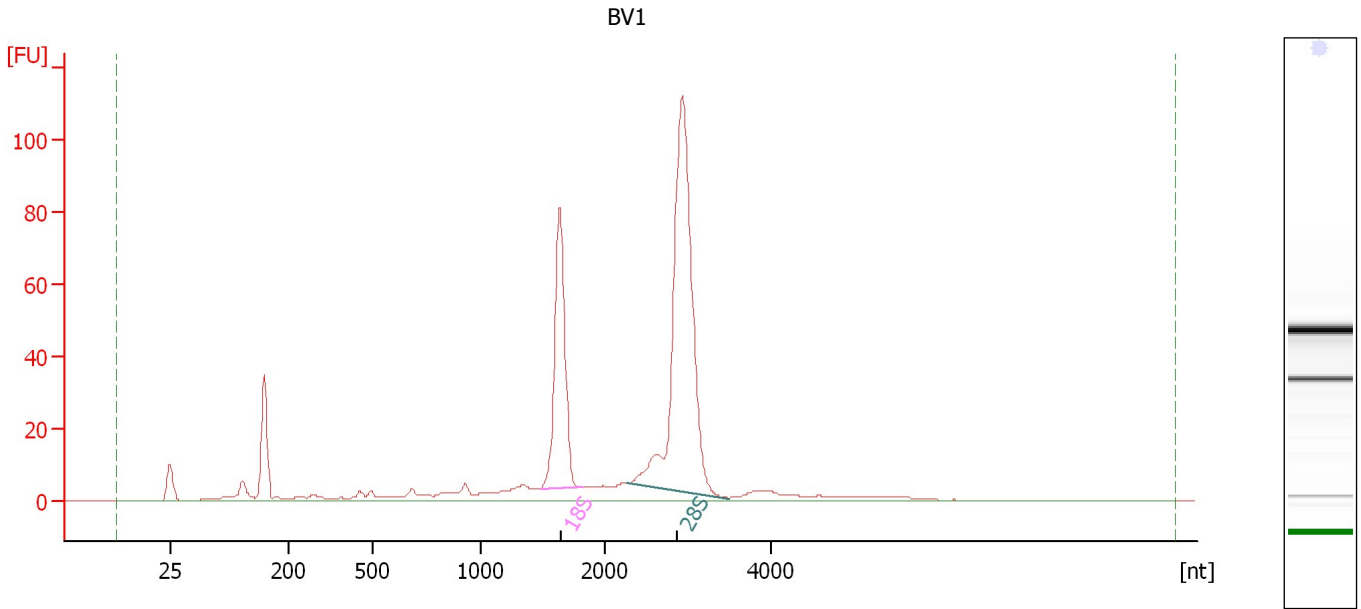
**Overall Results for Ladder**

RNA Area:	95.8	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: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : BV1**

RNA Area: 573.6                      RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 5,987 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.2                      Result Flagging Label: RIN: 9.70

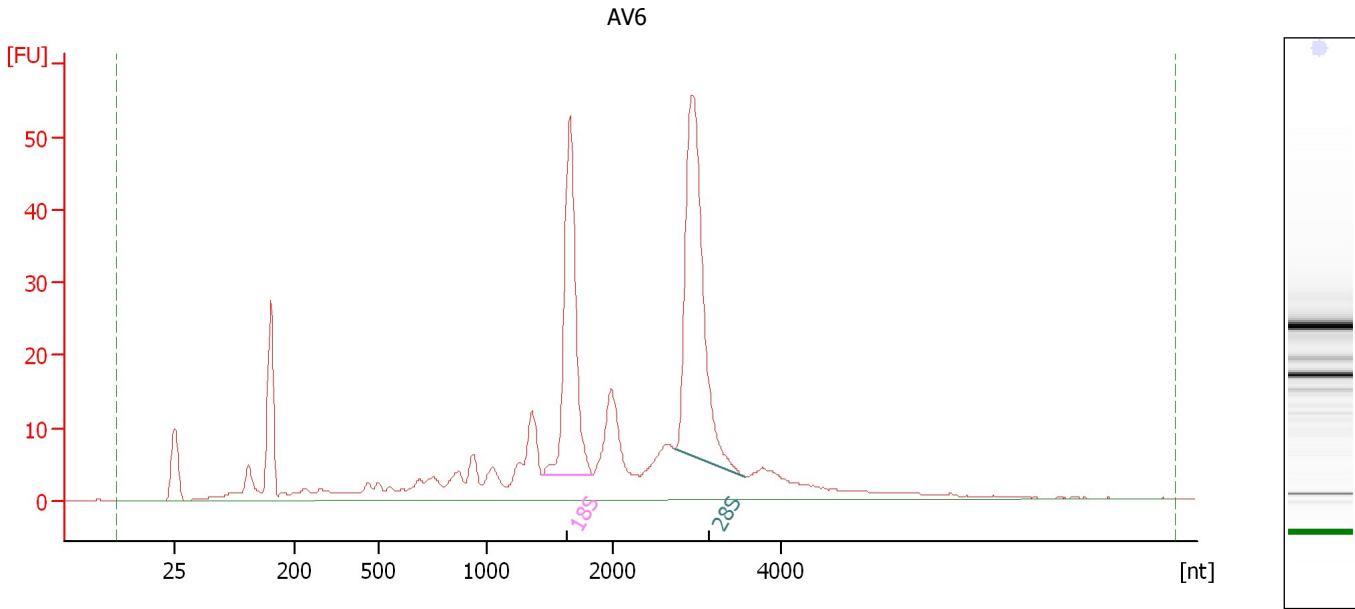
**Fragment table for sample 1 : BV1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,479	1,824	108.5	18.9
28S	2,277	3,483	243.4	42.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : AV6**

RNA Area:	460.7	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	4,809 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: 8.20

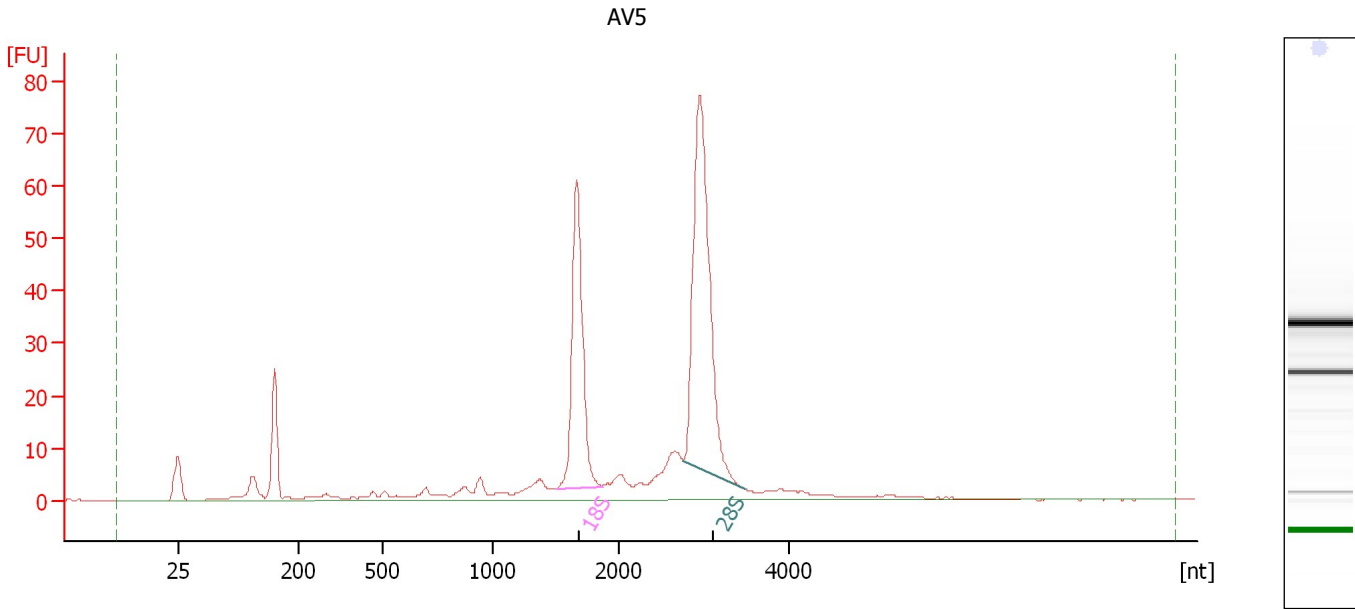
**Fragment table for sample 2 : AV6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,435	1,845	74.2	16.1
28S	2,749	3,563	101.1	21.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : AV5**

RNA Area: 403.0 RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 4,207 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.30

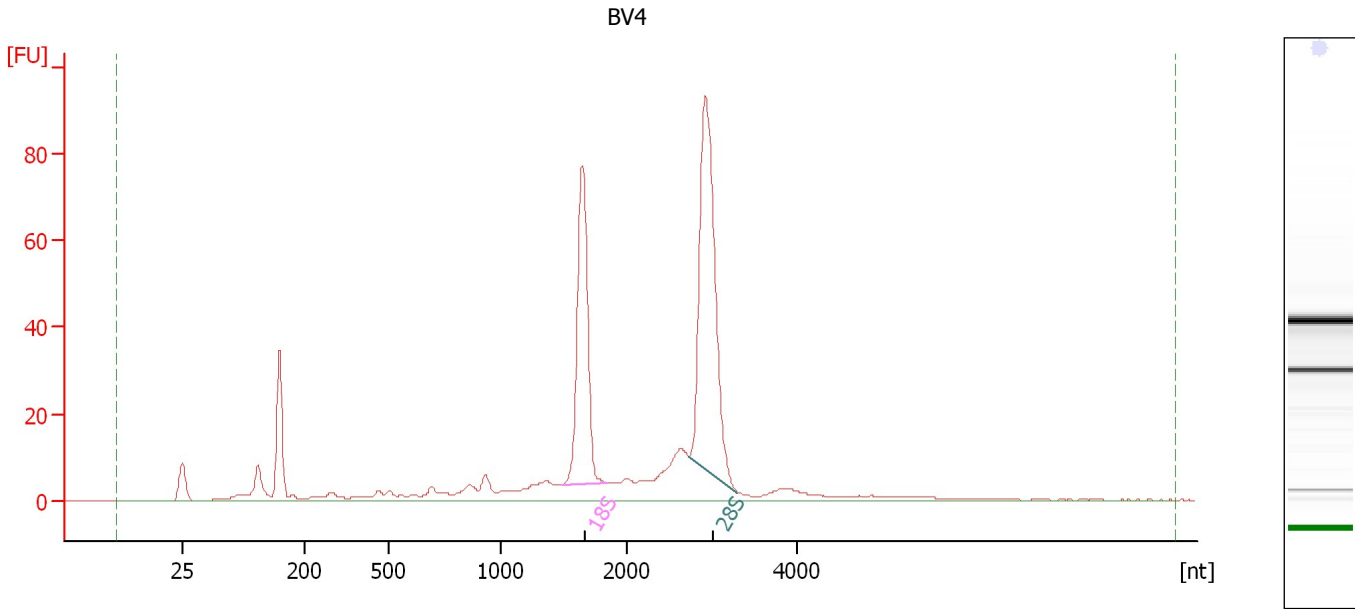
**Fragment table for sample 3 : AV5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,509	1,865	81.9	20.3
28S	2,759	3,492	132.8	32.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
 Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : BV4**

RNA Area:	510.8	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	5,331 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: 9.10

**Fragment table for sample 4 : BV4**

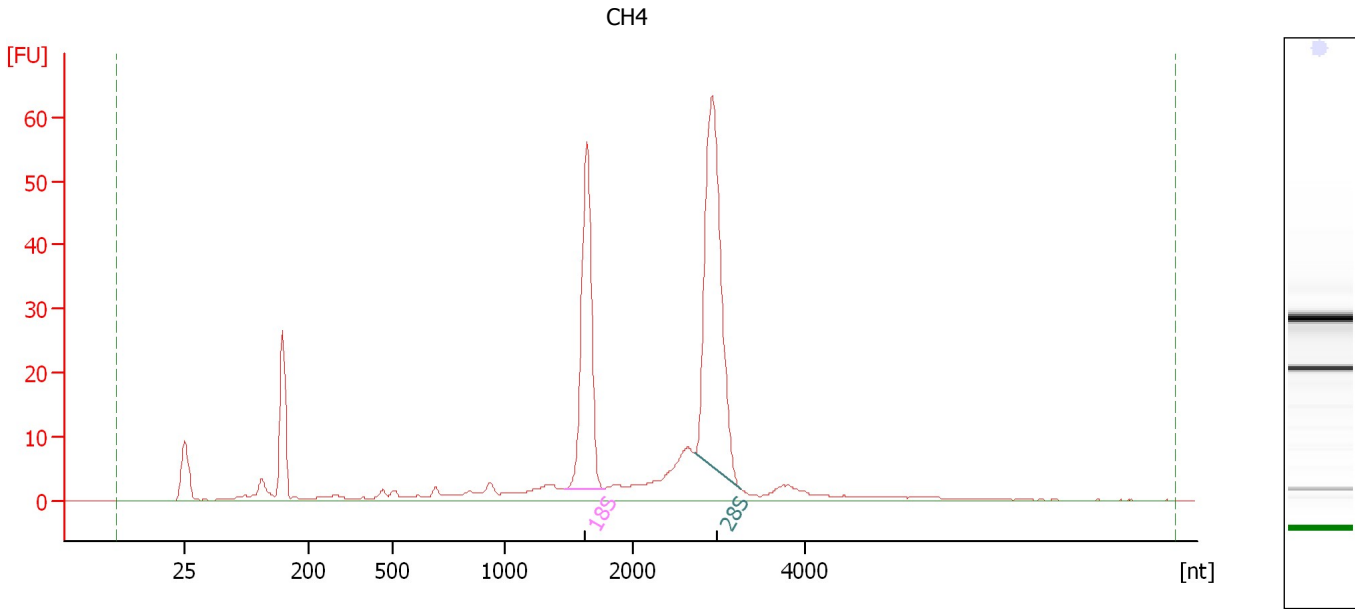
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,844	99.3	19.4
28S	2,731	3,295	151.8	29.7



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : CH4**

RNA Area: 338.6                      RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 3,534 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5                      Result Flagging Label: RIN: 9.30

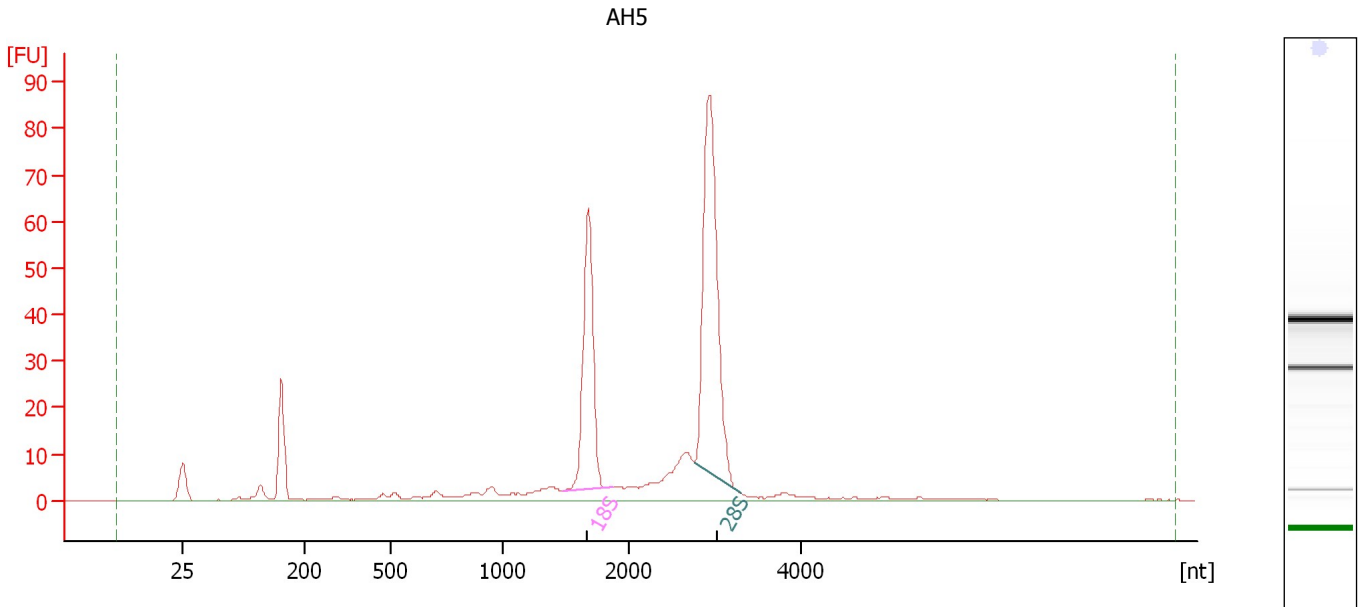
**Fragment table for sample 5 : CH4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,471	1,771	70.5	20.8
28S	2,705	3,252	107.0	31.6

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : AH5**

RNA Area:	373.8	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	3,902 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]:	1.6	Result Flagging Label:	RIN: 9.60

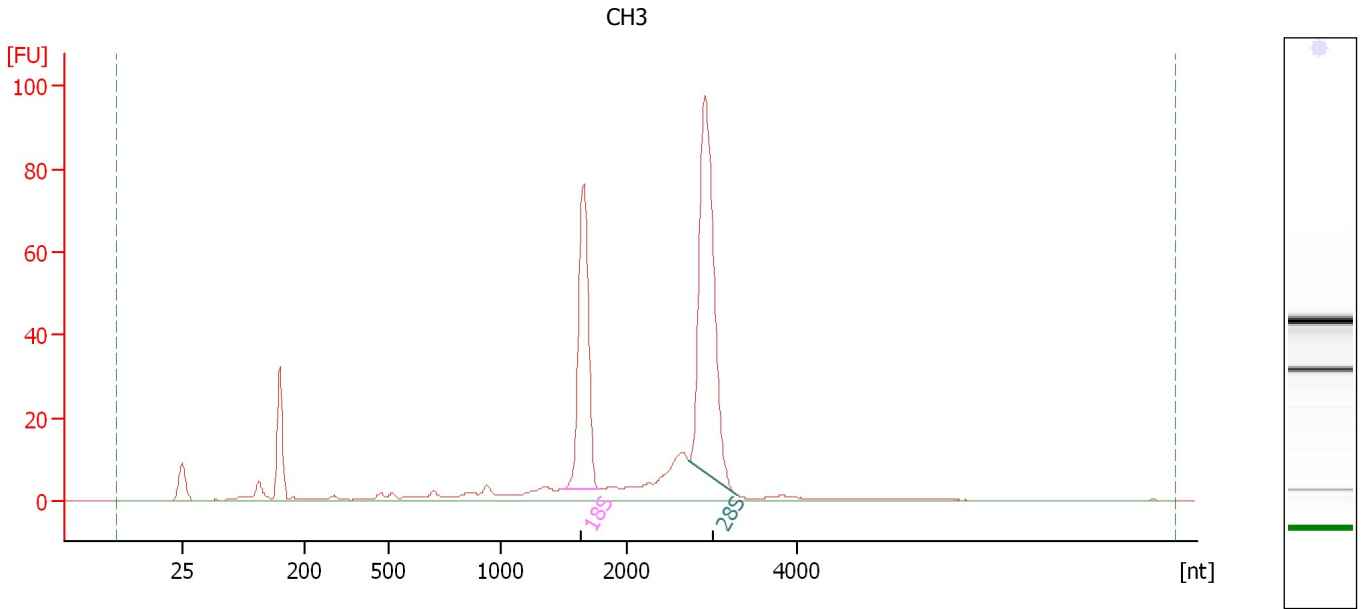
**Fragment table for sample 6 : AH5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,476	1,870	79.0	21.1
28S	2,756	3,305	129.9	34.8

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : CH3**

RNA Area:	435.3	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	4,543 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]:	1.6	Result Flagging Label:	RIN: 9.60

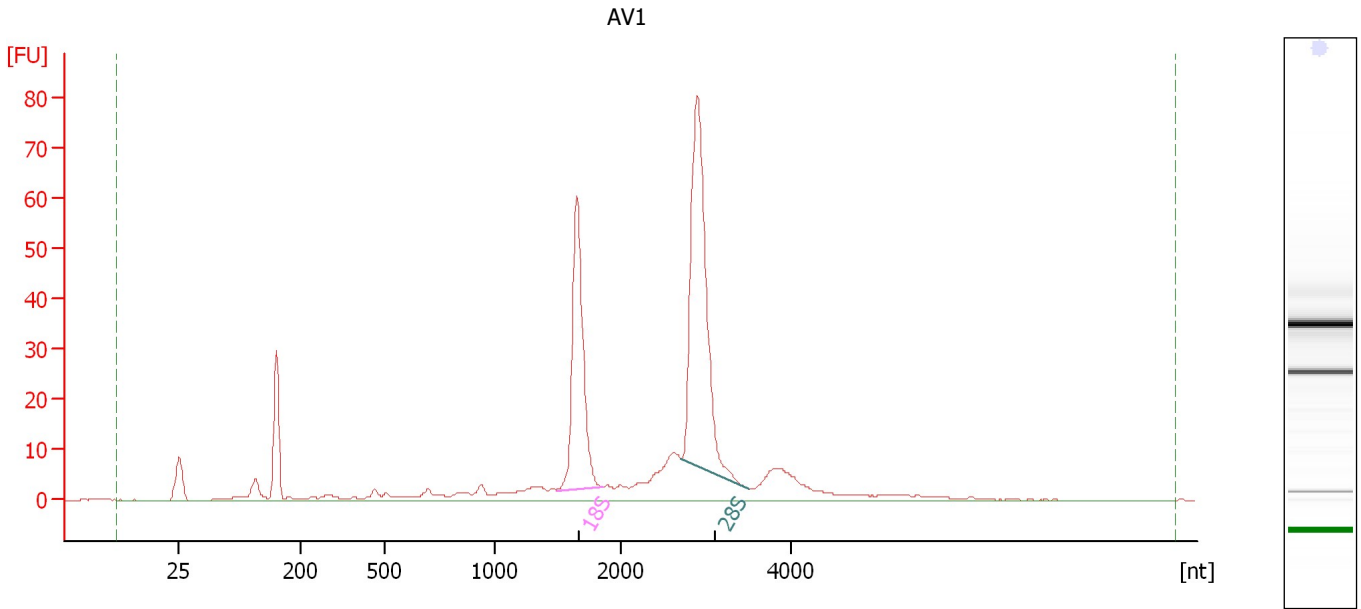
**Fragment table for sample 7 : CH3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,776	95.1	21.8
28S	2,731	3,295	153.5	35.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : AV1**

RNA Area: 421.9                      RNA Integrity Number (RIN): 9.4 (B.02.08)  
RNA Concentration: 4,403 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN: 9.40

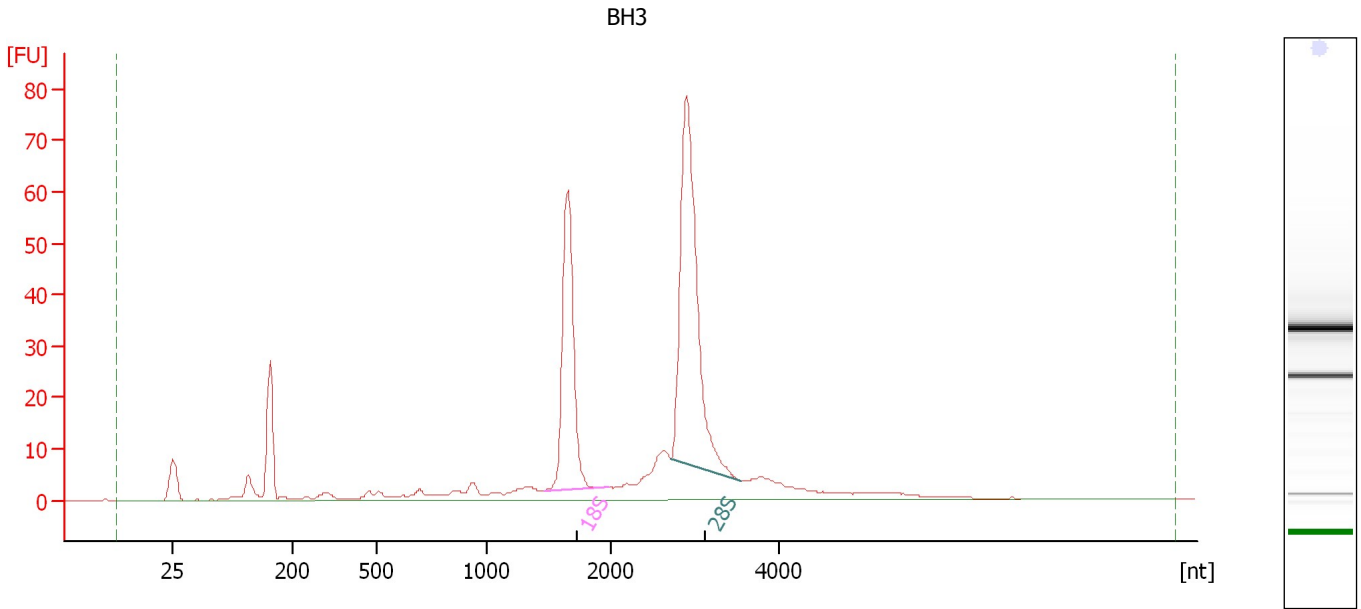
**Fragment table for sample 8 : AV1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,485	1,849	82.0	19.4
28S	2,708	3,502	129.7	30.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BH3**

RNA Area: 431.4                      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 4,503 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN: 9.50

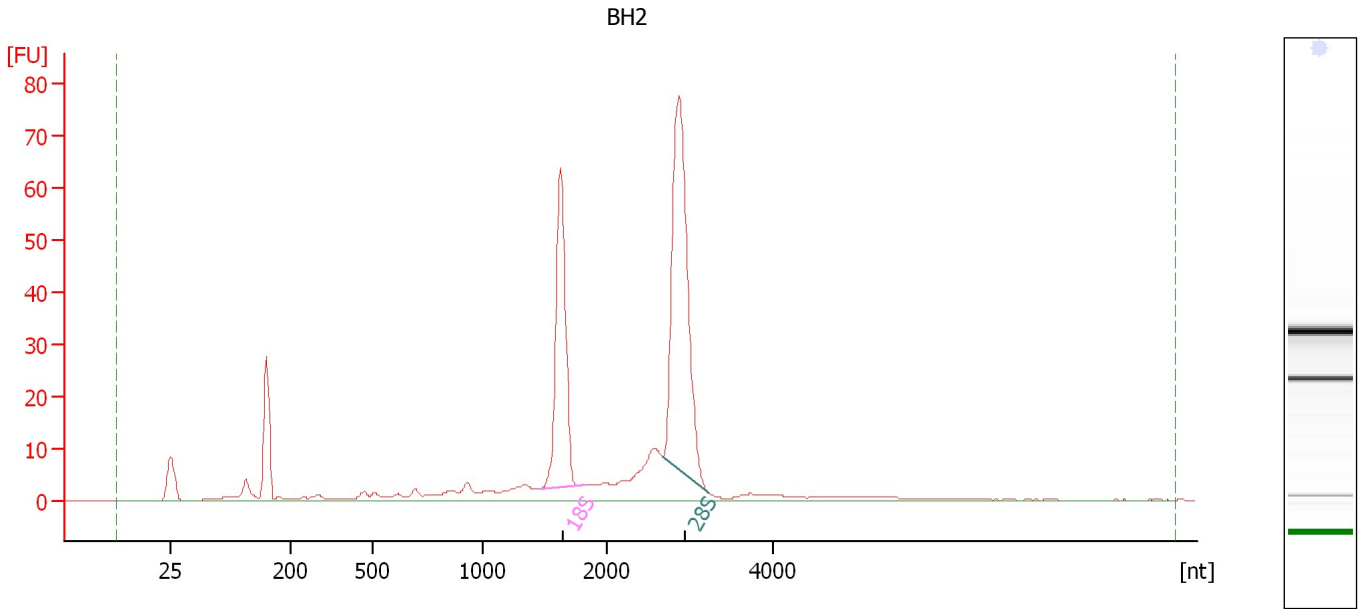
**Fragment table for sample 9 : BH3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,468	1,990	84.5	19.6
28S	2,724	3,553	138.9	32.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : BH2**

RNA Area:	390.8	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	4,079 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]:	1.6	Result Flagging Label:	RIN: 9.40

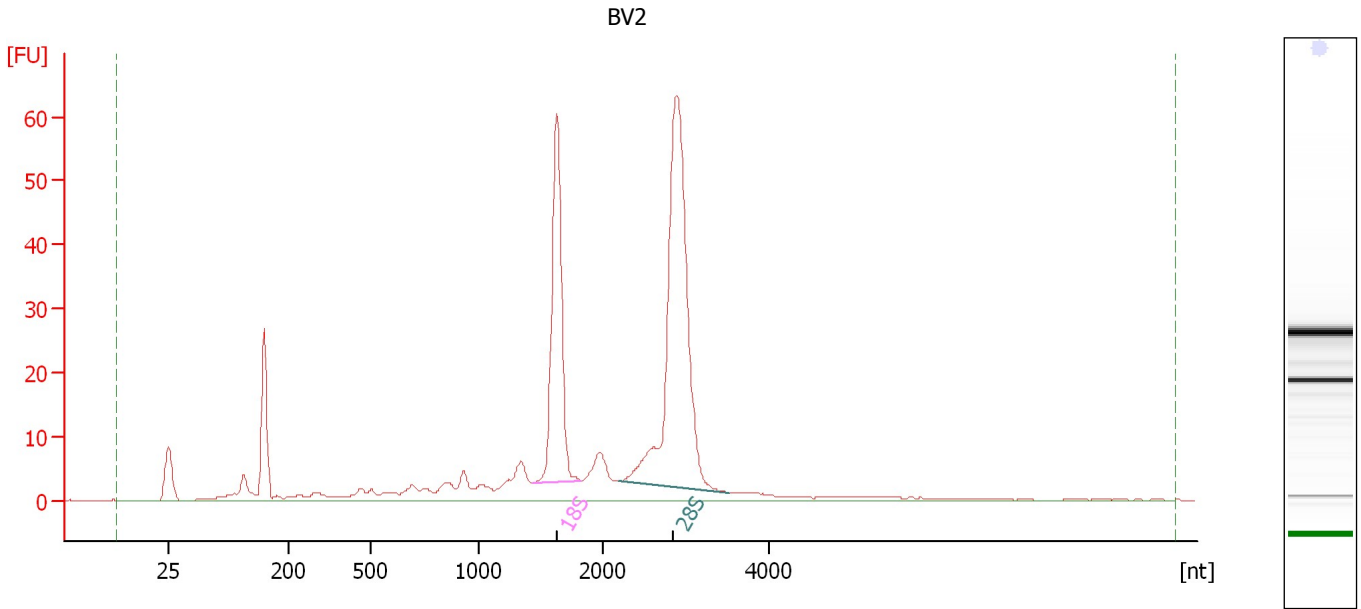
**Fragment table for sample 10 : BH2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,473	1,816	81.4	20.8
28S	2,674	3,225	129.8	33.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
 Modified: 8/23/2019 10:43:35 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : BV2**

RNA Area:	391.8	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	4,090 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]:	1.9	Result Flagging Label:	RIN: 9.10

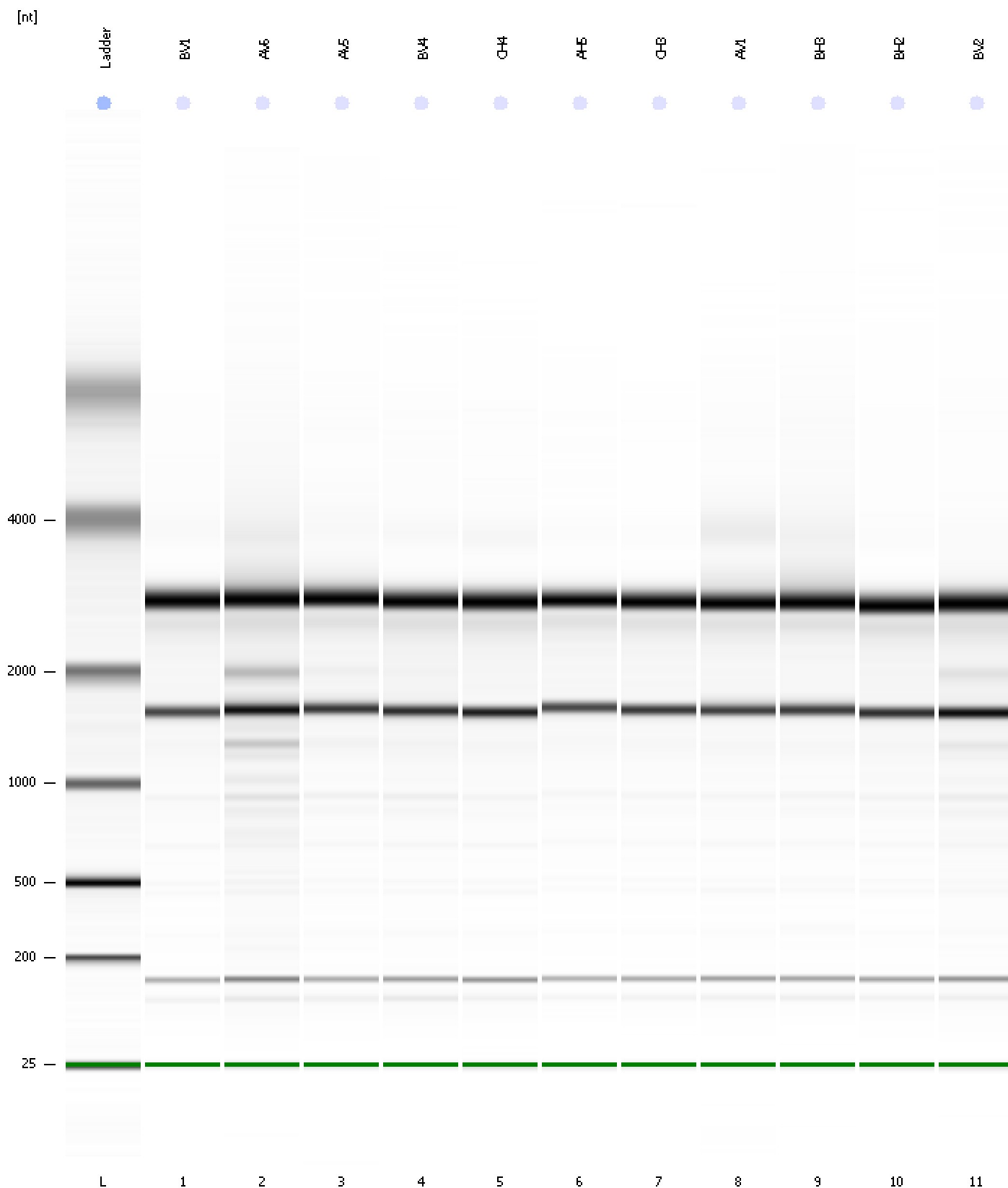
**Fragment table for sample 11 : BV2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,434	1,831	76.8	19.6
28S	2,186	3,511	143.0	36.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
Modified: 8/23/2019 10:43:35 AM

**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23\_002.xad

Created: 8/23/2019 10:21:32 AM  
 Modified: 8/23/2019 10:43:35 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		8/23/2019 10:43:34 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_002.xad)		Instrument	Run		8/23/2019 10:21:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/23/2019 10:21:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/23/2019 10:21:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/23/2019 10:21:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/23/2019 10:21:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/23/2019 10:21:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/23/2019 10:21:38 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1