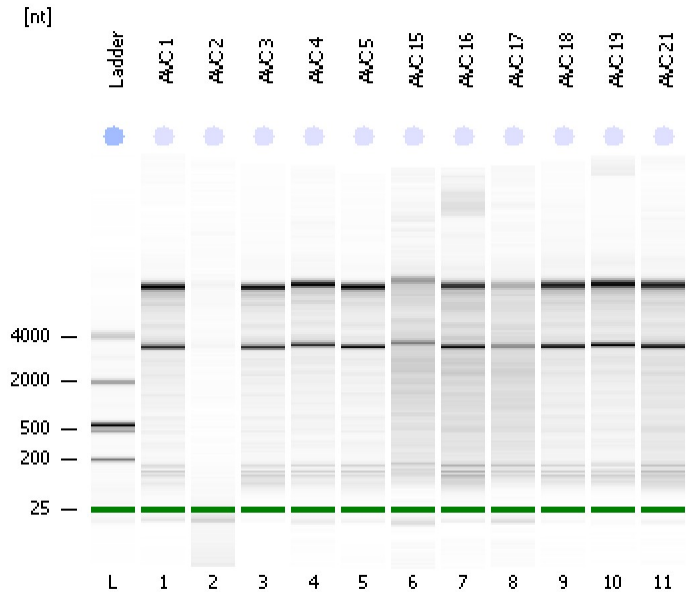


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electrophoresis File Run Summary



Instrument Information:

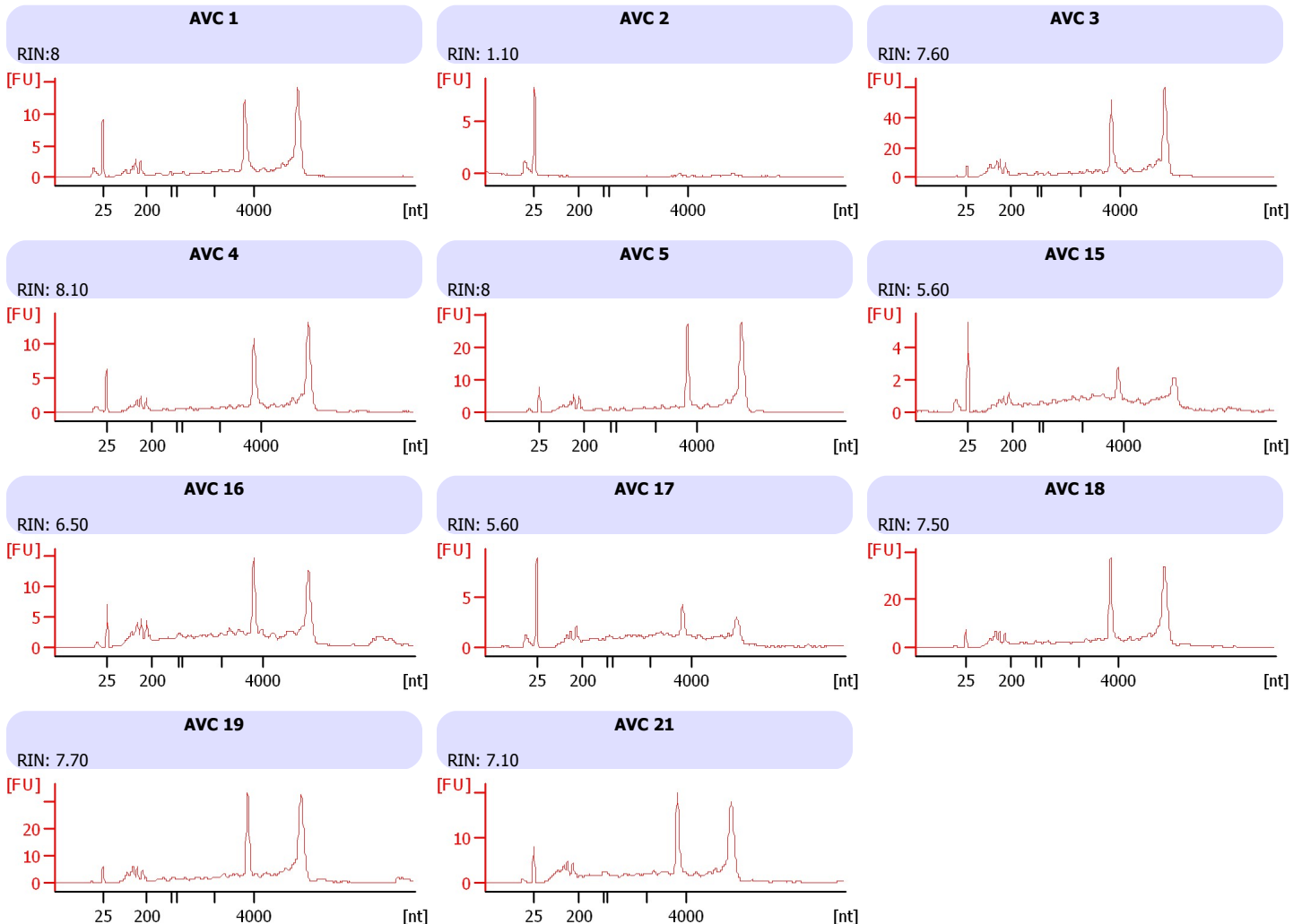
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
 Modified: 8/16/2016 12:58:31 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
AVC 1		✓	RIN:8	
AVC 2		✓	RIN: 1.10	
AVC 3		✓	RIN: 7.60	
AVC 4		✓	RIN: 8.10	
AVC 5		✓	RIN:8	
AVC 15		✓	RIN: 5.60	
AVC 16		✓	RIN: 6.50	
AVC 17		✓	RIN: 5.60	
AVC 18		✓	RIN: 7.50	
AVC 19		✓	RIN: 7.70	
AVC 21		✓	RIN: 7.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 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/ μ l] : 1000

Lower Marker Concentration [pg/ μ l] : 0

Upper Marker Concentration [pg/ μ 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

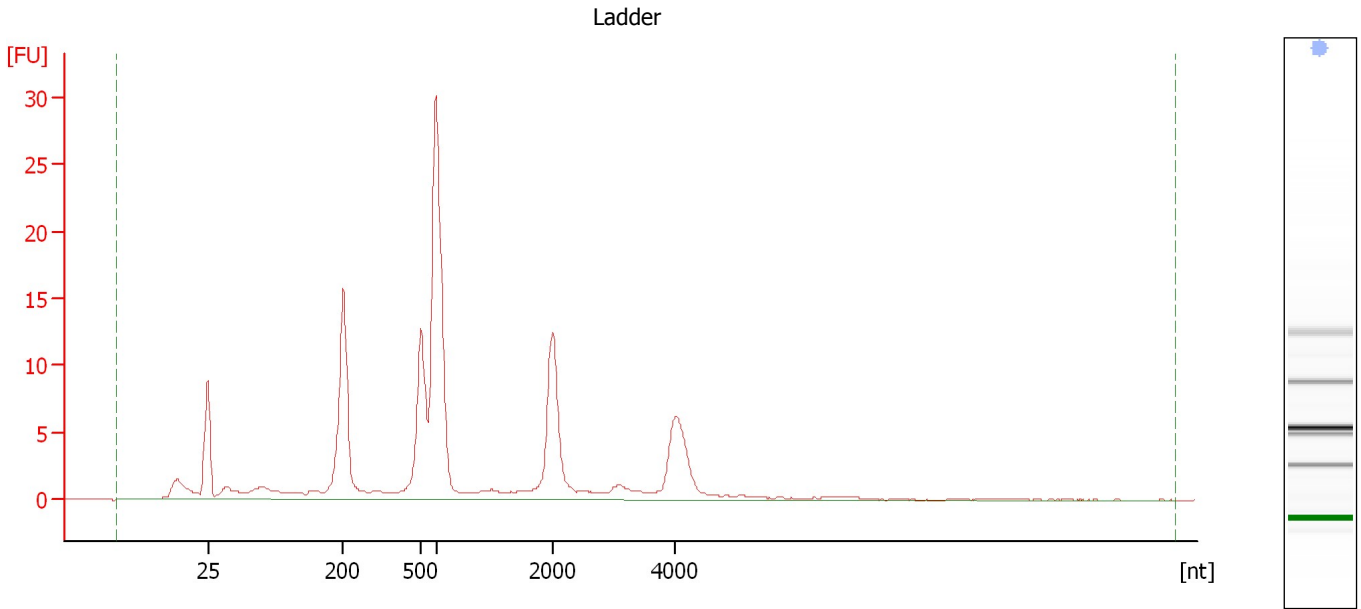
Ladder

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\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary



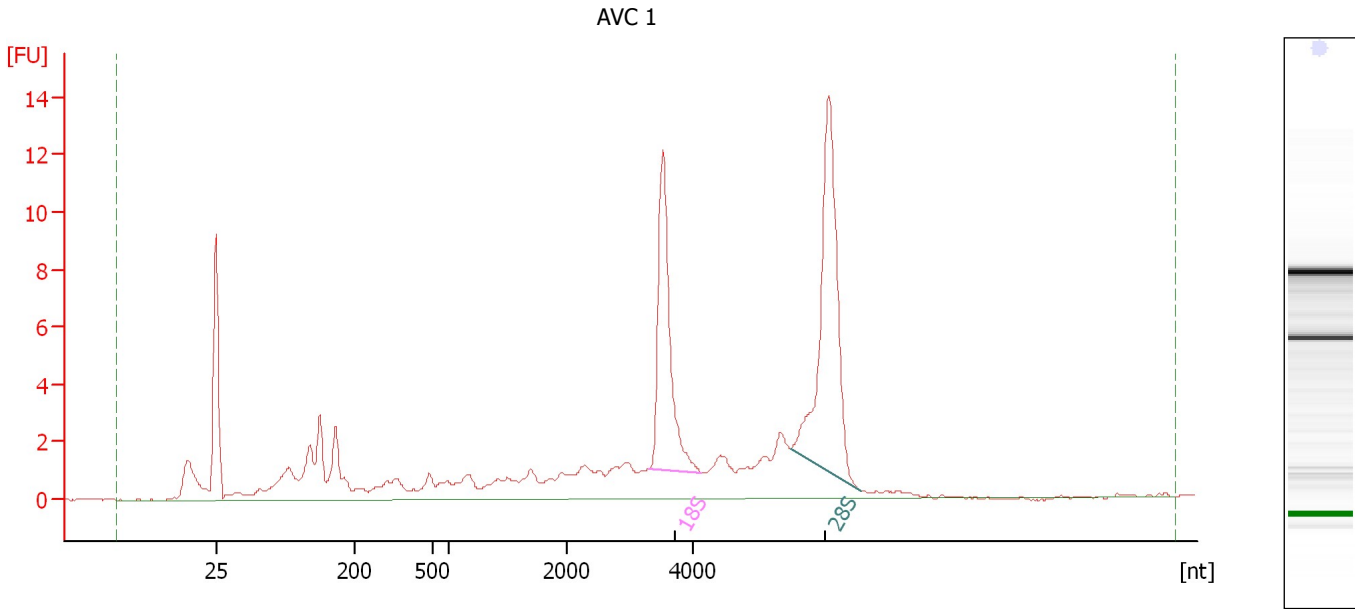
Overall Results for Ladder

RNA Area:	164.9	Result Flagging Color:	
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\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AVC 1

RNA Area:	106.3	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	645 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN:8

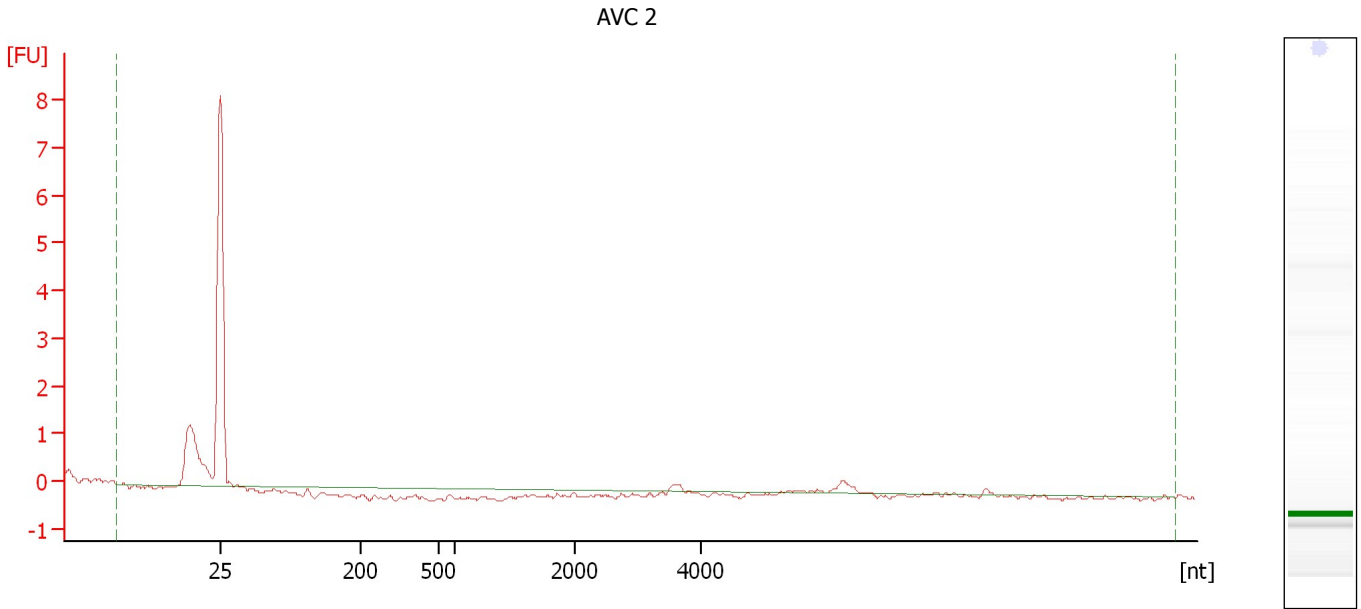
Fragment table for sample 1 : AVC 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,309	4,147	15.3	14.4
28S	5,567	6,695	22.6	21.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



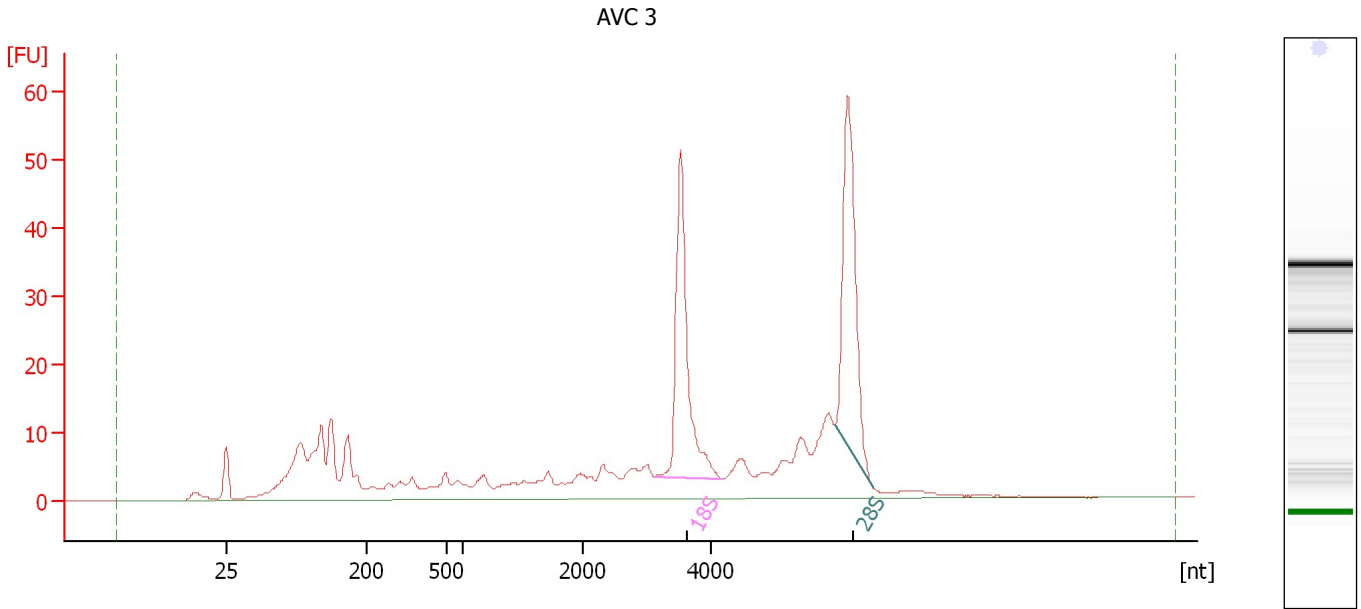
Overall Results for sample 2 : AVC 2

RNA Area:	4.8	RNA Integrity Number (RIN):	1.1 (B.02.08)
RNA Concentration:	29 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : AVC 3

RNA Area:	427.9	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	2,595 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.60

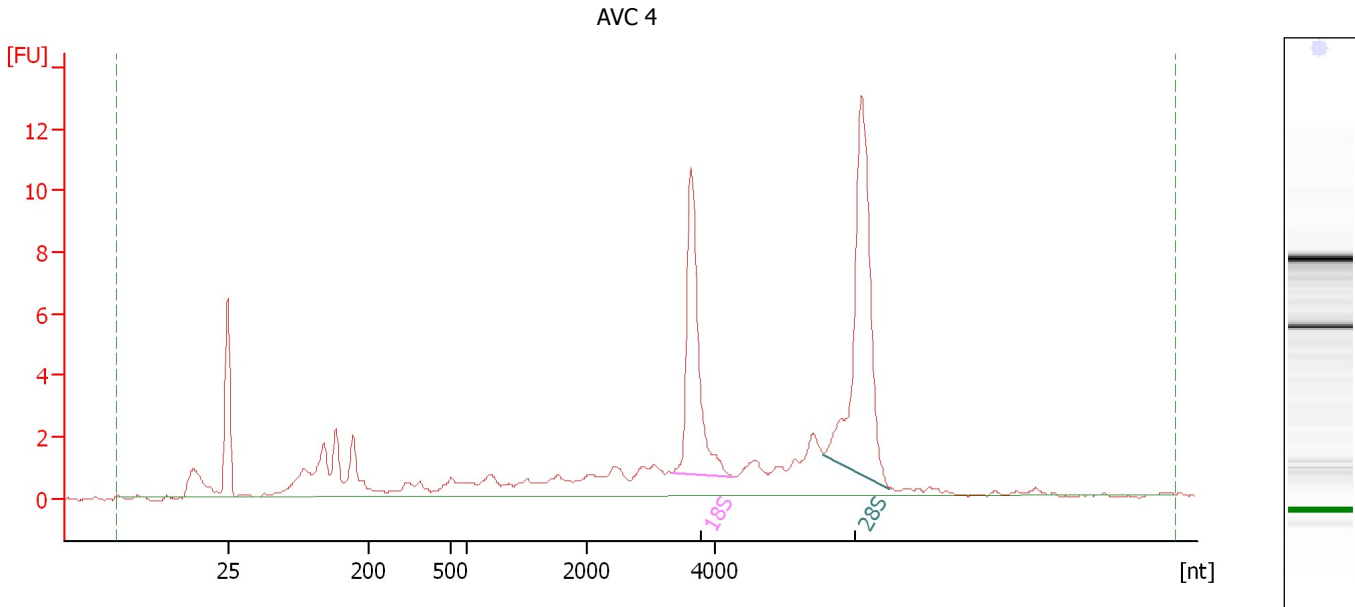
Fragment table for sample 3 : AVC 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,132	4,173	63.6	14.9
28S	5,953	6,540	64.0	15.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : AVC 4

RNA Area:	83.4	RNA Integrity Number (RIN):	8.1 (B.02.08)
RNA Concentration:	506 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.10

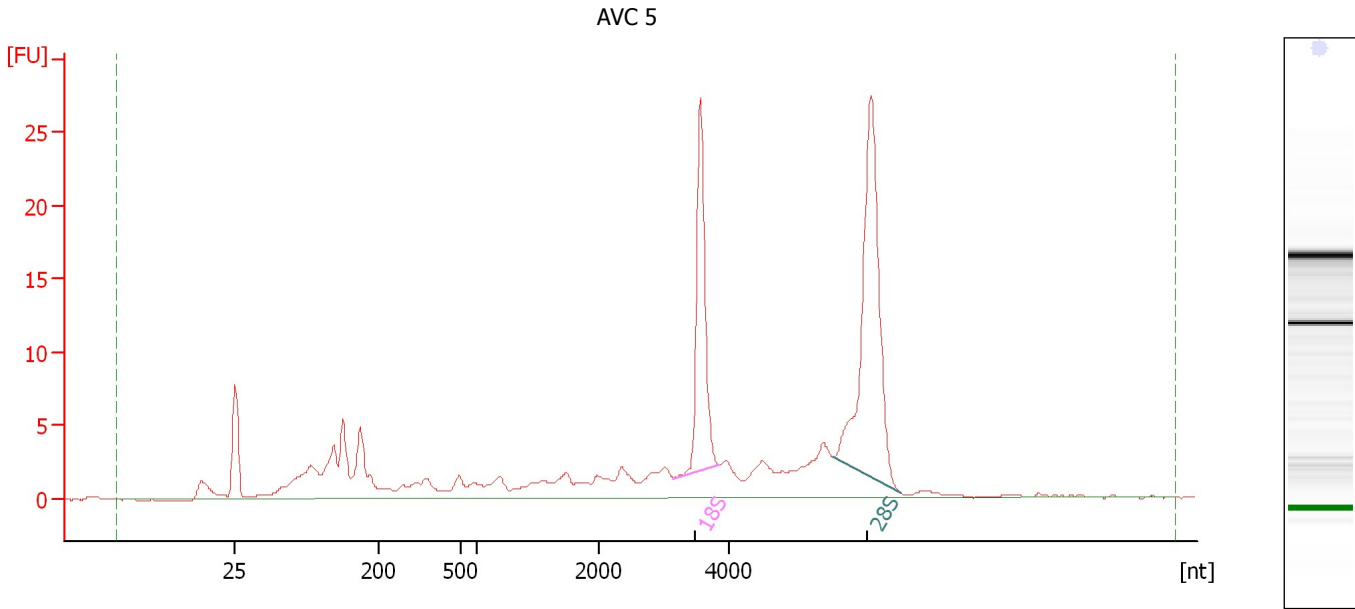
Fragment table for sample 4 : AVC 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,322	4,275	13.3	15.9
28S	5,696	6,733	19.6	23.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AVC 5

RNA Area:	187.5	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	1,137 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:8

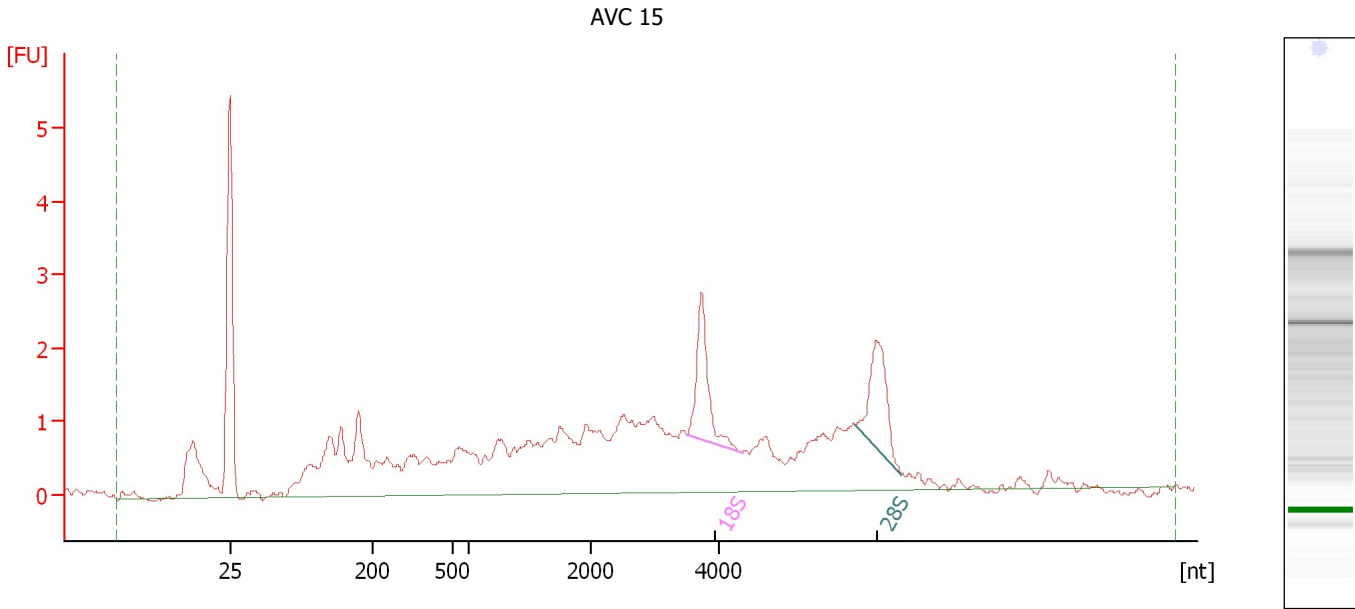
Fragment table for sample 5 : AVC 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,142	3,852	25.3	13.5
28S	5,616	6,638	43.0	23.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : AVC 15

RNA Area:	54.5	RNA Integrity Number (RIN):	5.6 (B.02.08)
RNA Concentration:	330 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 5.60

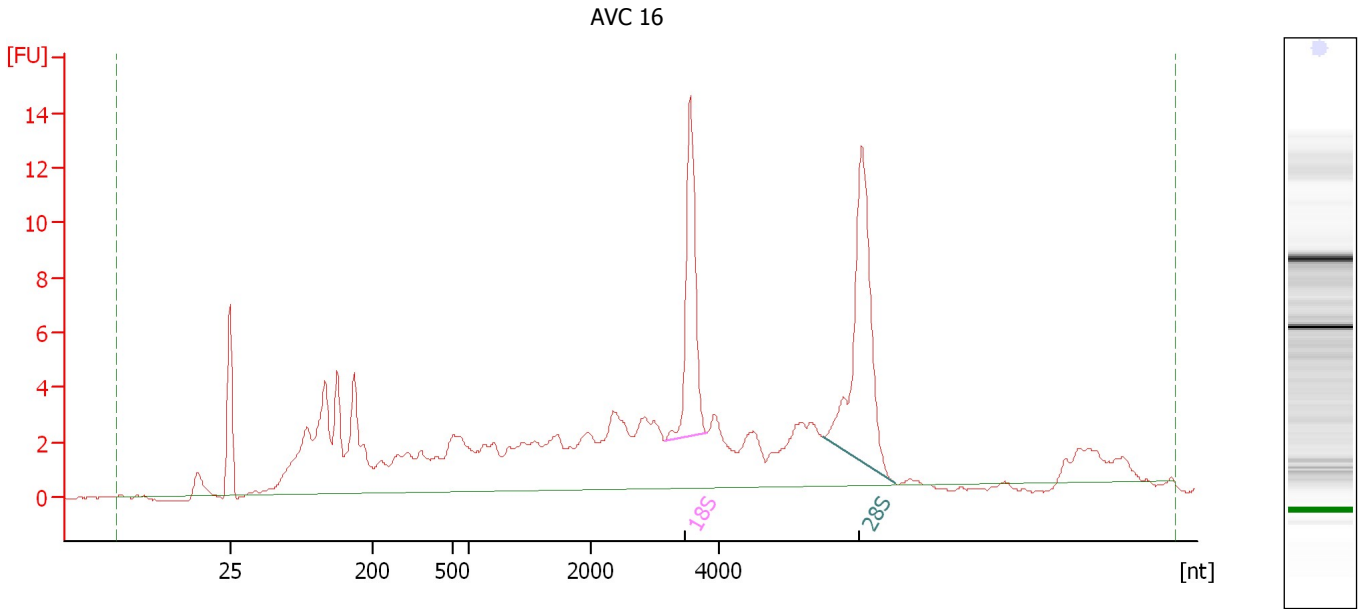
Fragment table for sample 6 : AVC 15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,510	4,360	2.6	4.8
28S	6,125	6,841	2.5	4.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : AVC 16

RNA Area:	163.4	RNA Integrity Number (RIN):	6.5 (B.02.08)
RNA Concentration:	991 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 6.50

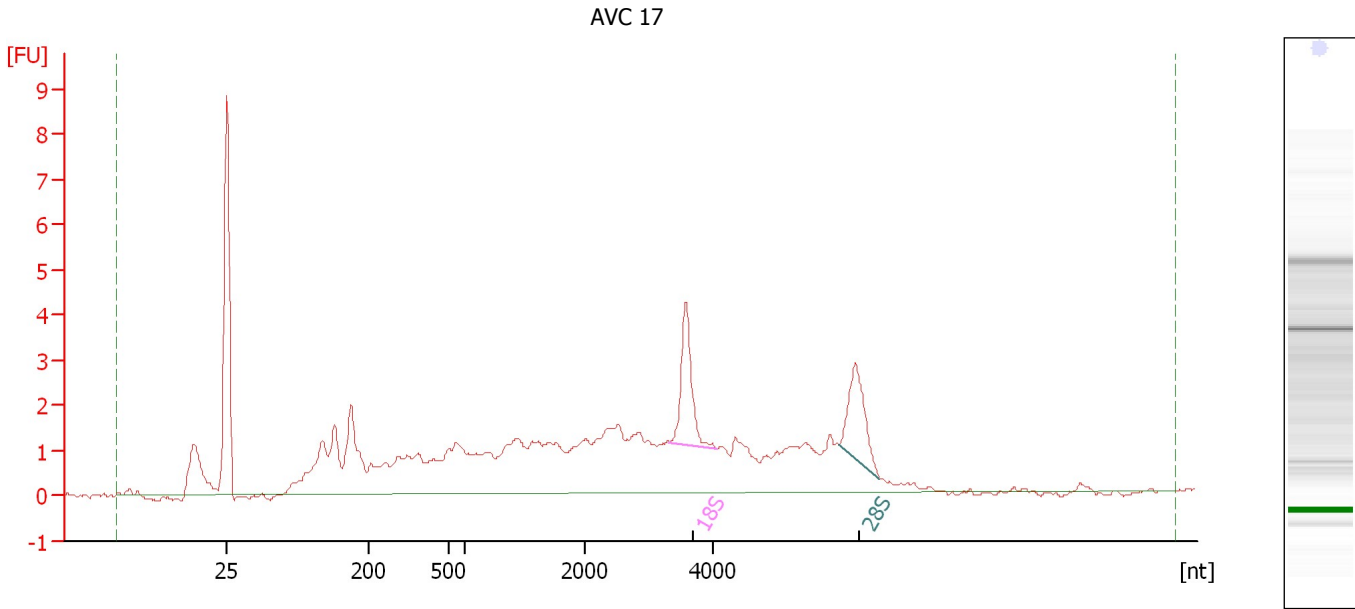
Fragment table for sample 7 : AVC 16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,144	3,810	12.9	7.9
28S	5,626	6,758	19.4	11.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : AVC 17

RNA Area: 77.2 RNA Integrity Number (RIN): 5.6 (B.02.08)
RNA Concentration: 468 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 5.60

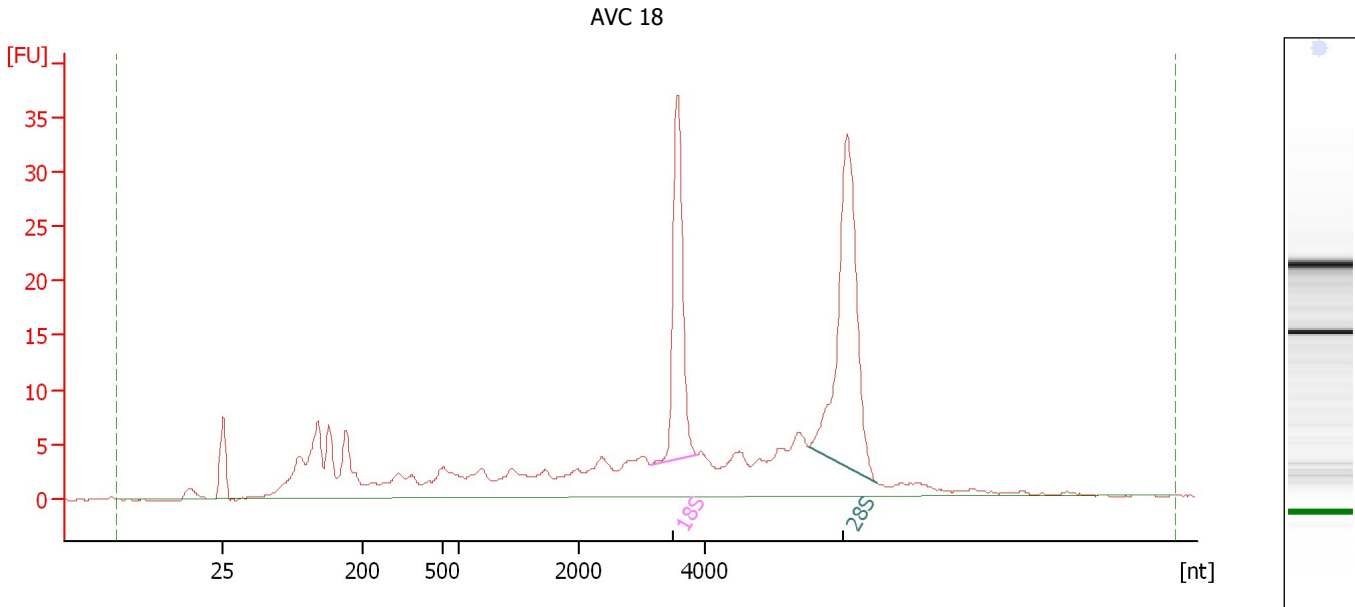
Fragment table for sample 8 : AVC 17

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,319	4,073	3.9	5.0
28S	5,967	6,620	3.4	4.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AVC 18

RNA Area:	301.1	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	1,826 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.50

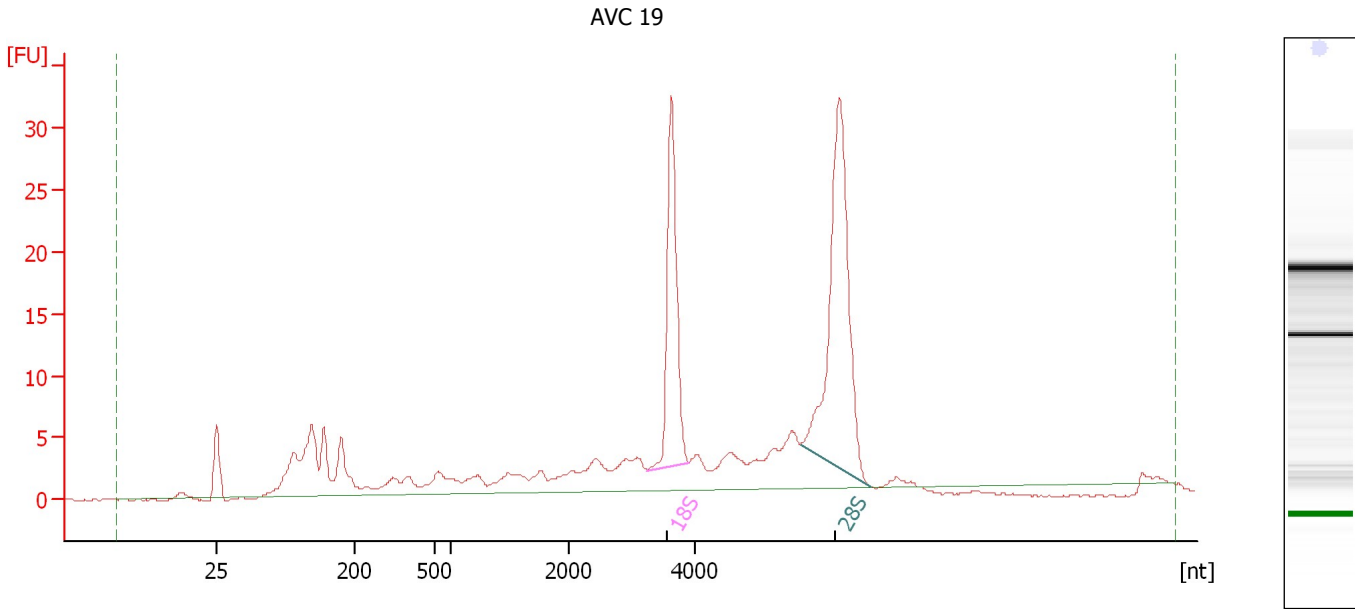
Fragment table for sample 9 : AVC 18

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,156	3,866	36.9	12.3
28S	5,640	6,721	57.7	19.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : AVC 19

RNA Area:	232.5	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	1,410 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 7.70

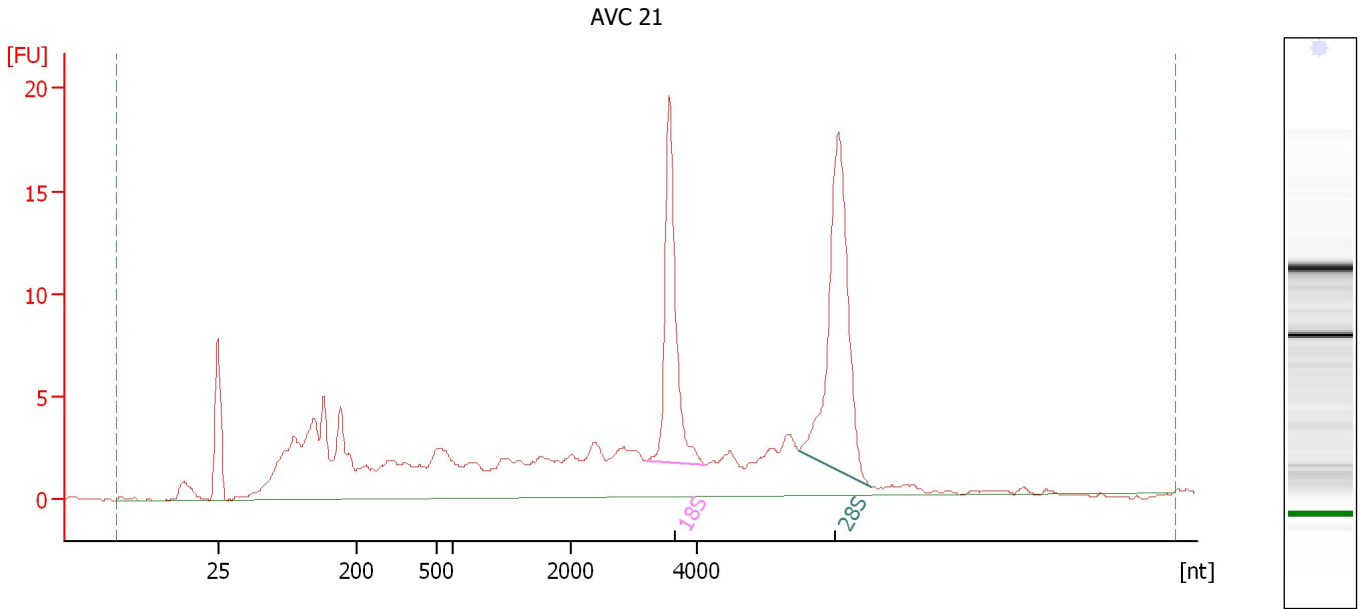
Fragment table for sample 10 : AVC 19

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,243	3,909	33.2	14.3
28S	5,701	6,828	56.3	24.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : AVC 21

RNA Area:	200.2	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	1,214 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 7.10

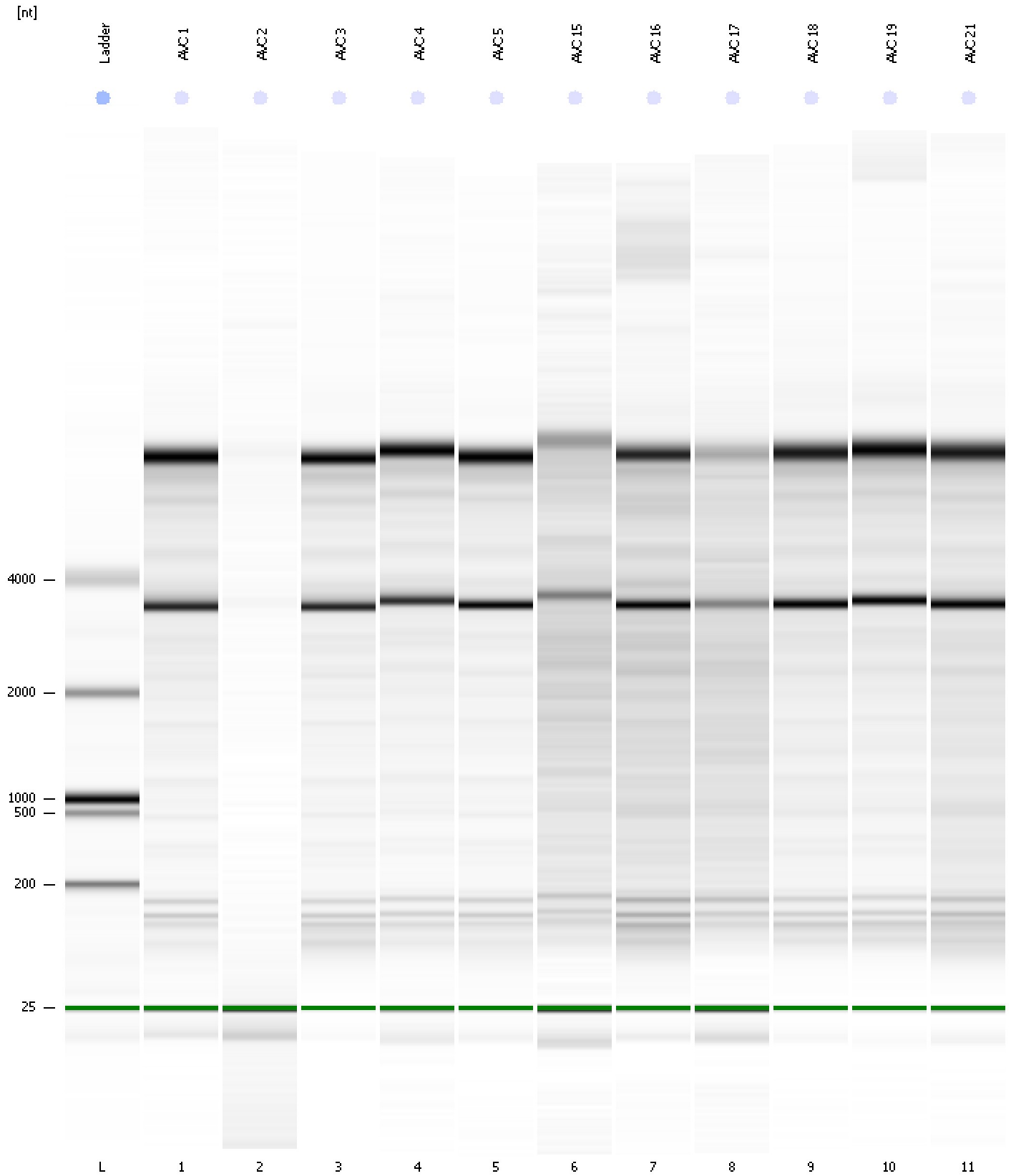
Fragment table for sample 11 : AVC 21

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,195	4,132	22.9	11.5
28S	5,648	6,772	32.0	16.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
Modified: 8/16/2016 12:58:31 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-16\2016-08-16_002.xad

Created: 8/16/2016 12:36:13 PM
 Modified: 8/16/2016 12:58:31 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		8/16/2016 12:58:16 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\2016-08-16\2016-08-16_002.xad)		Instrument	Run		8/16/2016 12:36:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/16/2016 12:36:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/16/2016 12:36:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/16/2016 12:36:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/16/2016 12:36:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/16/2016 12:36:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/16/2016 12:36:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1