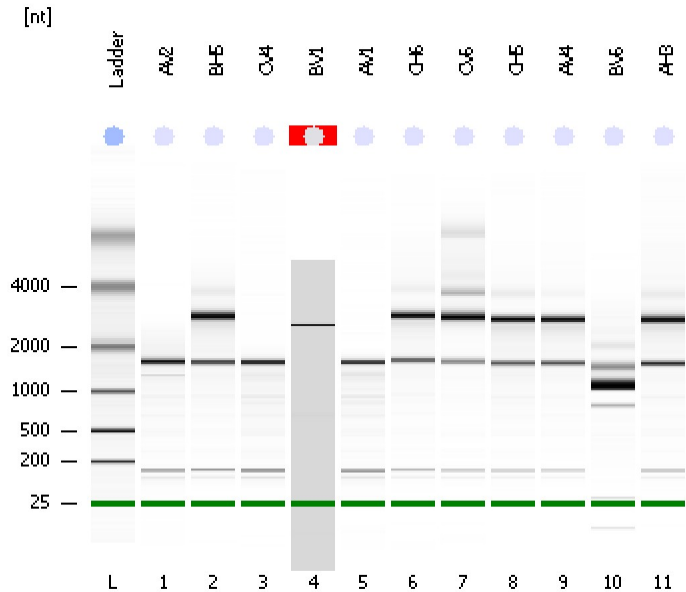


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electrophoresis File Run Summary



Instrument Information:

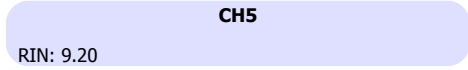
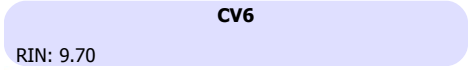
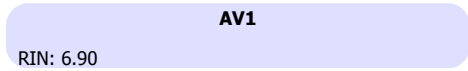
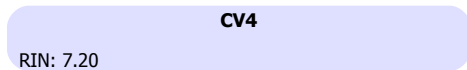
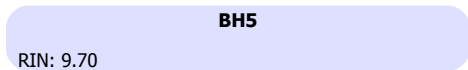
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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)
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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\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
 Modified: 8/21/2019 11:10:50 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
AV2		✓	RIN: 7.90	
BH5		✓	RIN: 9.70	
CV4		✓	RIN: 7.20	
BV1		⚠	RIN N/A	
AV1		✓	RIN: 6.90	
CH6		✓	RIN:10	
CV6		✓	RIN: 9.70	
CH5		✓	RIN: 9.20	
AV4		✓	RIN: 9.50	
BV6		✓	RIN: 9.10	
AH3		✓	RIN: 9.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 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/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

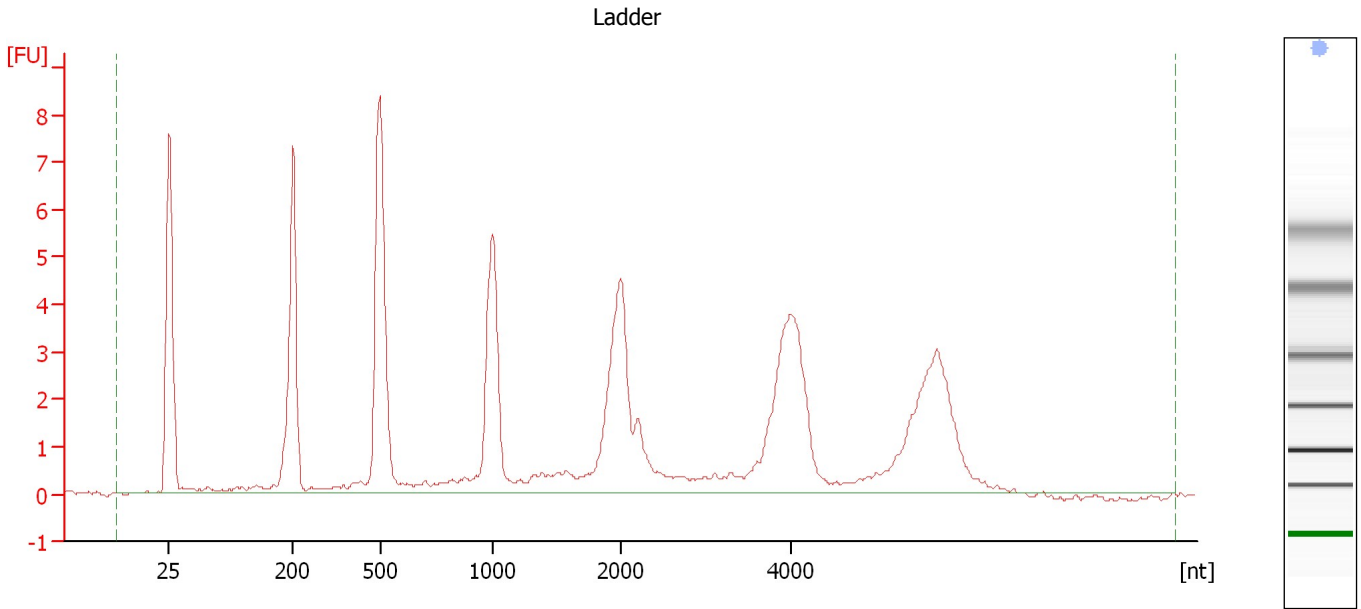
Ladder

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\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary



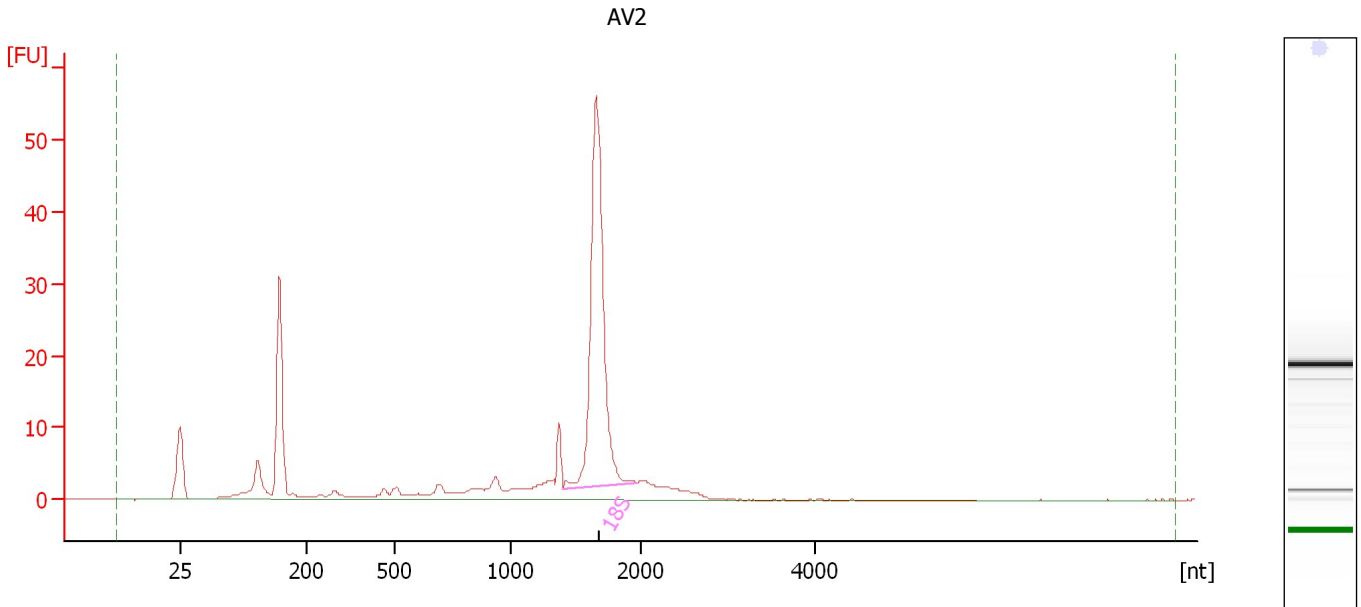
Overall Results for Ladder

RNA Area:	84.6	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\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : AV2

RNA Area:	209.3	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,475 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.90

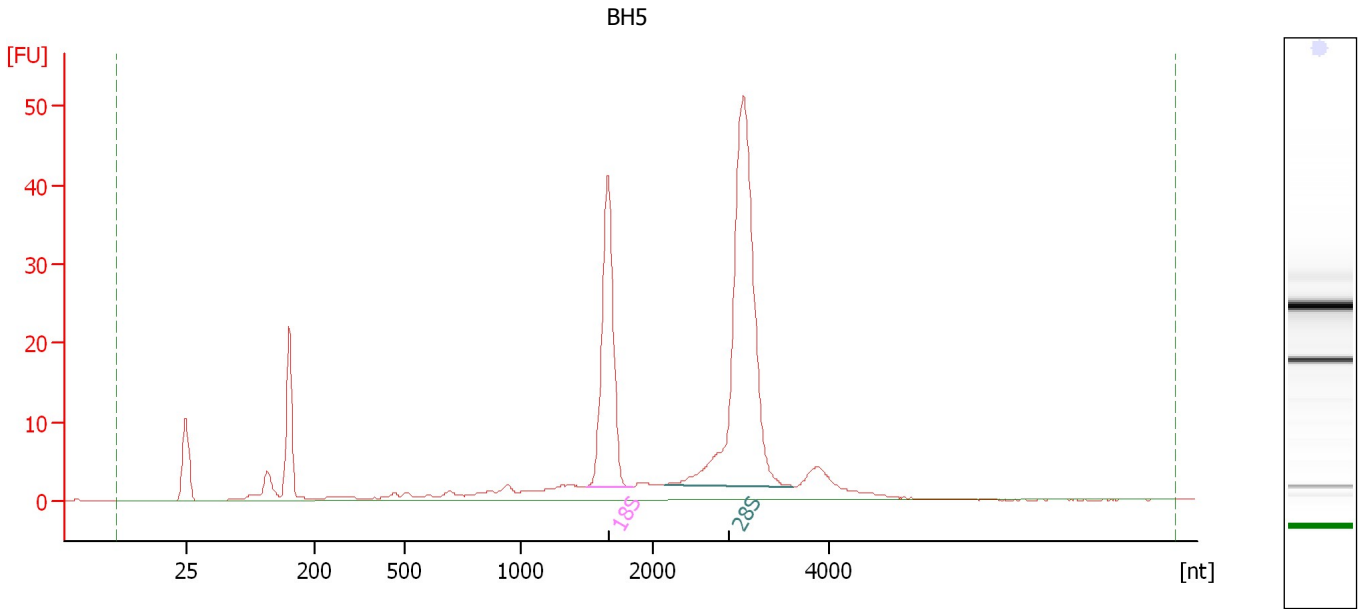
Fragment table for sample 1 : AV2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,408	1,970	86.8	41.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : BH5

RNA Area:	290.5	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	3,435 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.70

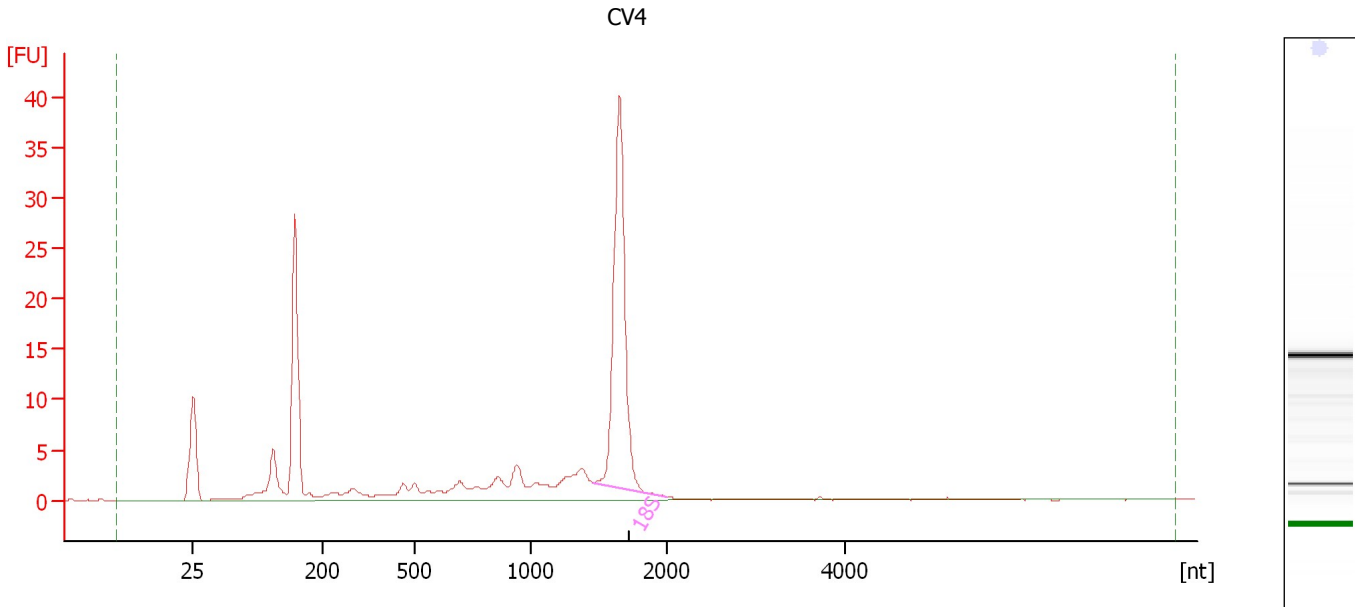
Fragment table for sample 2 : BH5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,498	1,844	57.1	19.7
28S	2,116	3,585	114.8	39.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CV4

RNA Area:	157.6	RNA Integrity Number (RIN):	7.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,864 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 7.20

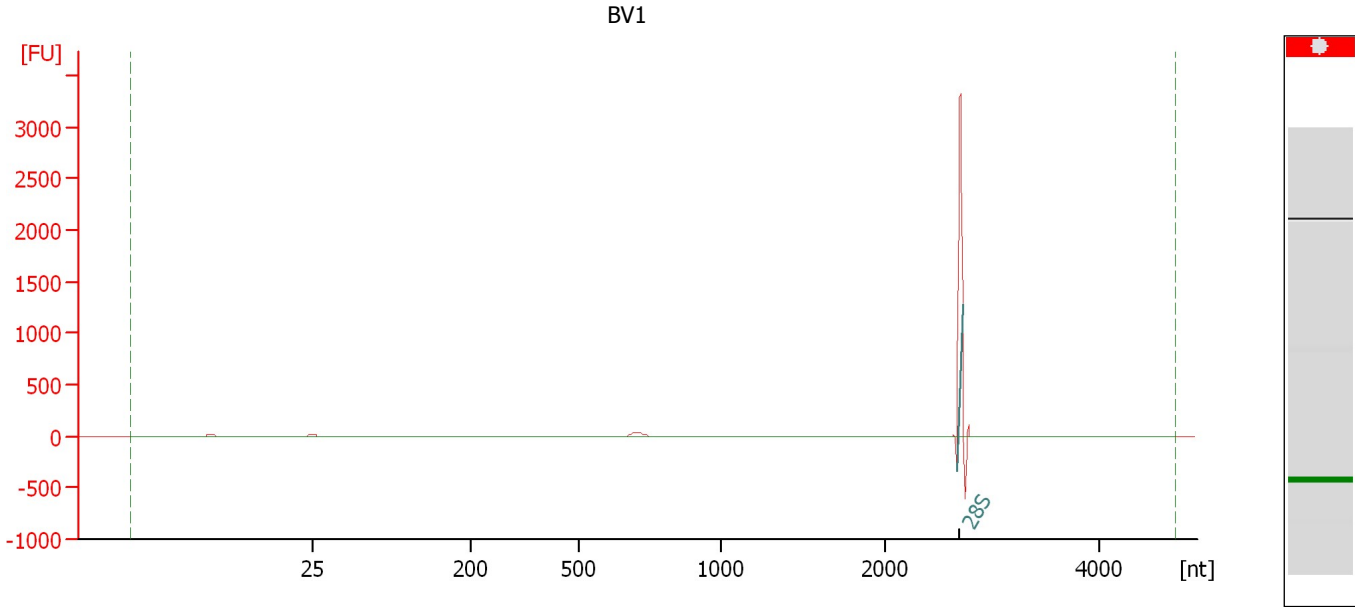
Fragment table for sample 3 : CV4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,451	2,010	53.6	34.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BV1

RNA Area:	1,274.5	RNA Integrity Number (RIN):	N/A (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	15,073 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

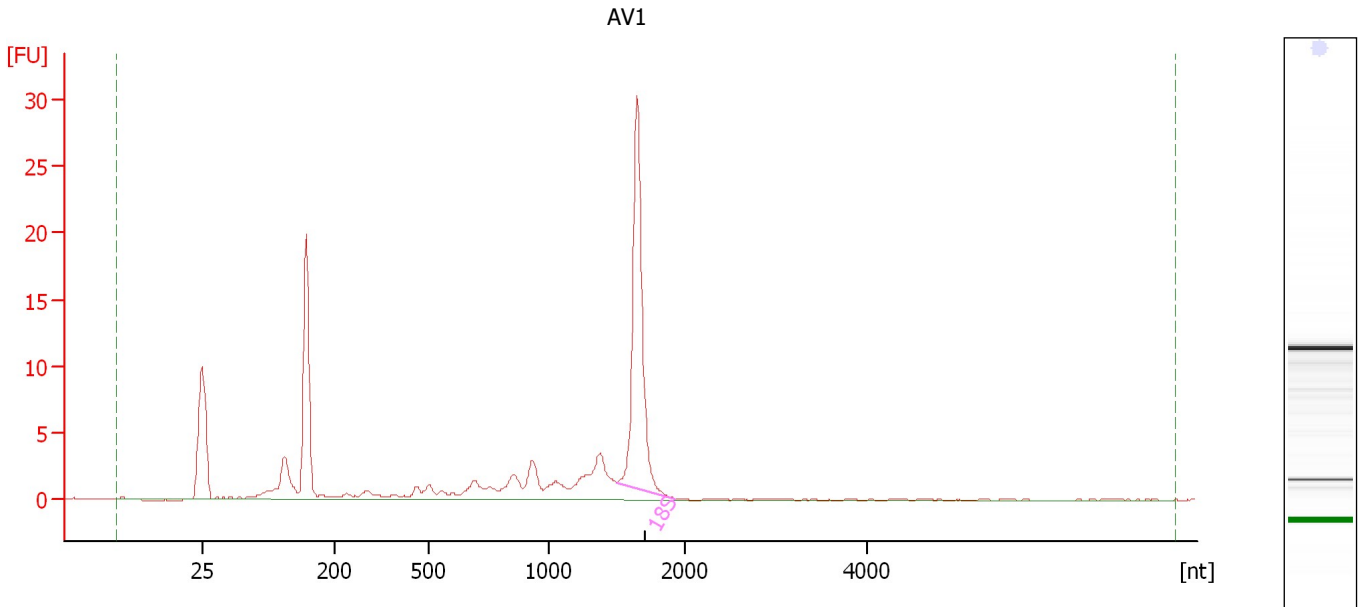
Fragment table for sample 4 : BV1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,674	2,733	826.4	64.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : AV1

RNA Area:	104.0	RNA Integrity Number (RIN):	6.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,231 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.90

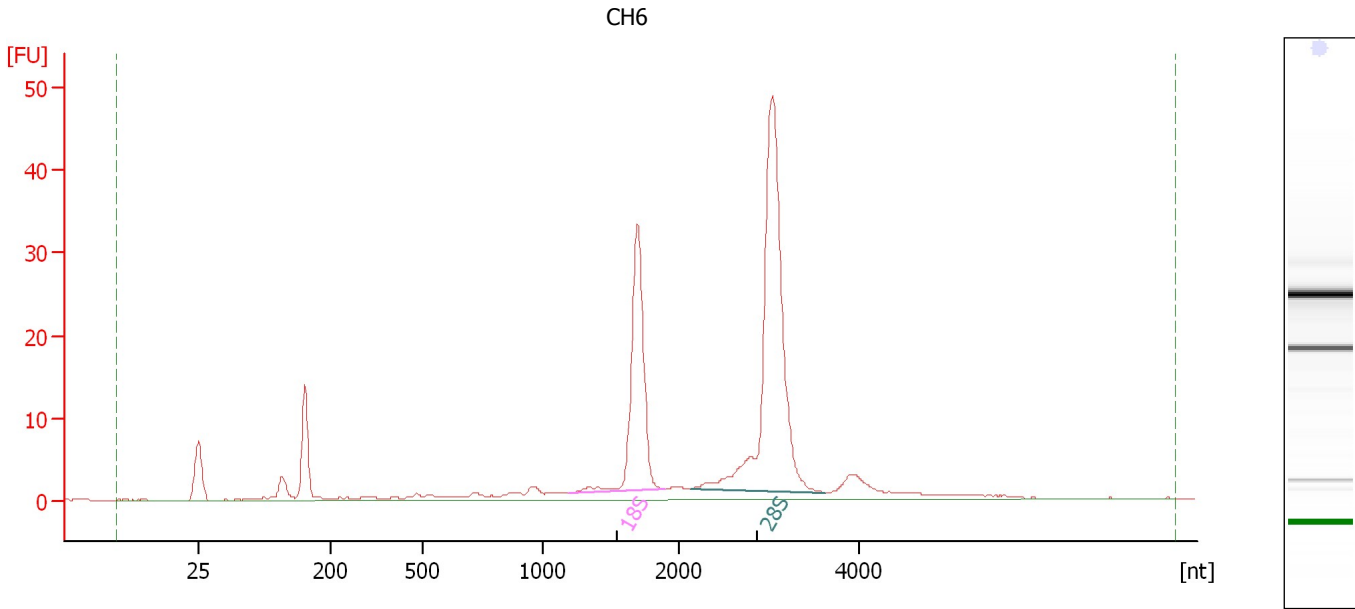
Fragment table for sample 5 : AV1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,495	1,923	34.8	33.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
 Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CH6

RNA Area:	229.5	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	2,715 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN:10

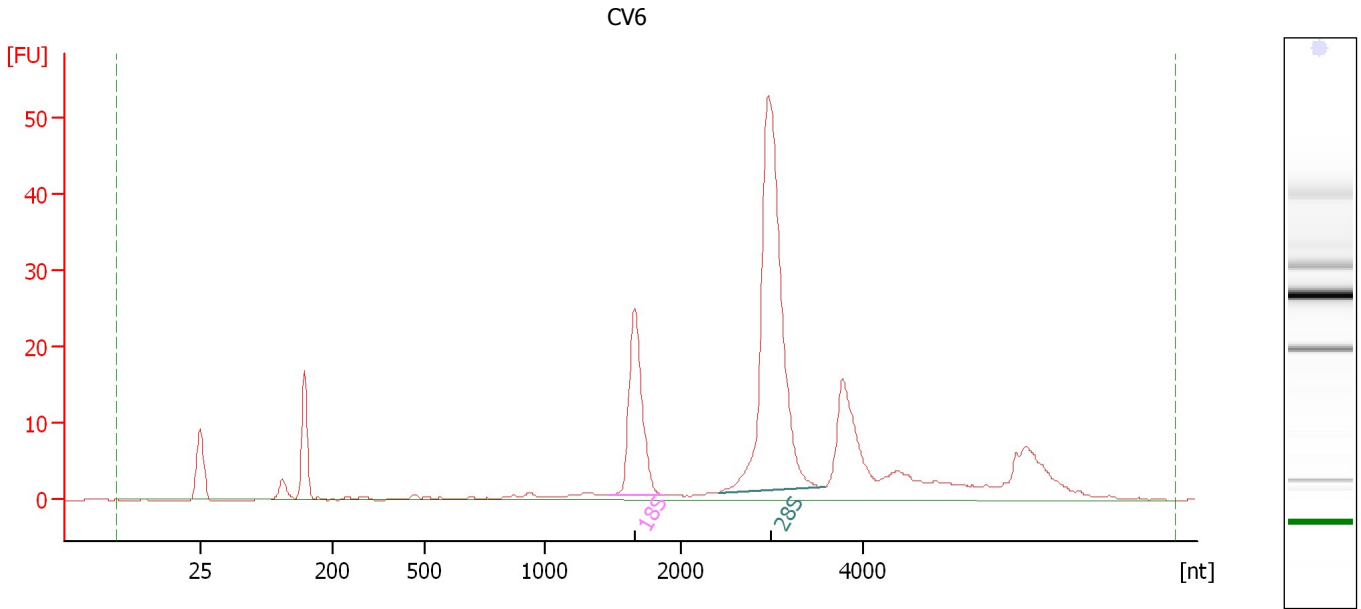
Fragment table for sample 6 : CH6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,193	1,890	49.0	21.4
28S	2,142	3,620	95.3	41.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : CV6

RNA Area:	291.7	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	3,450 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.9	Result Flagging Label:	RIN: 9.70

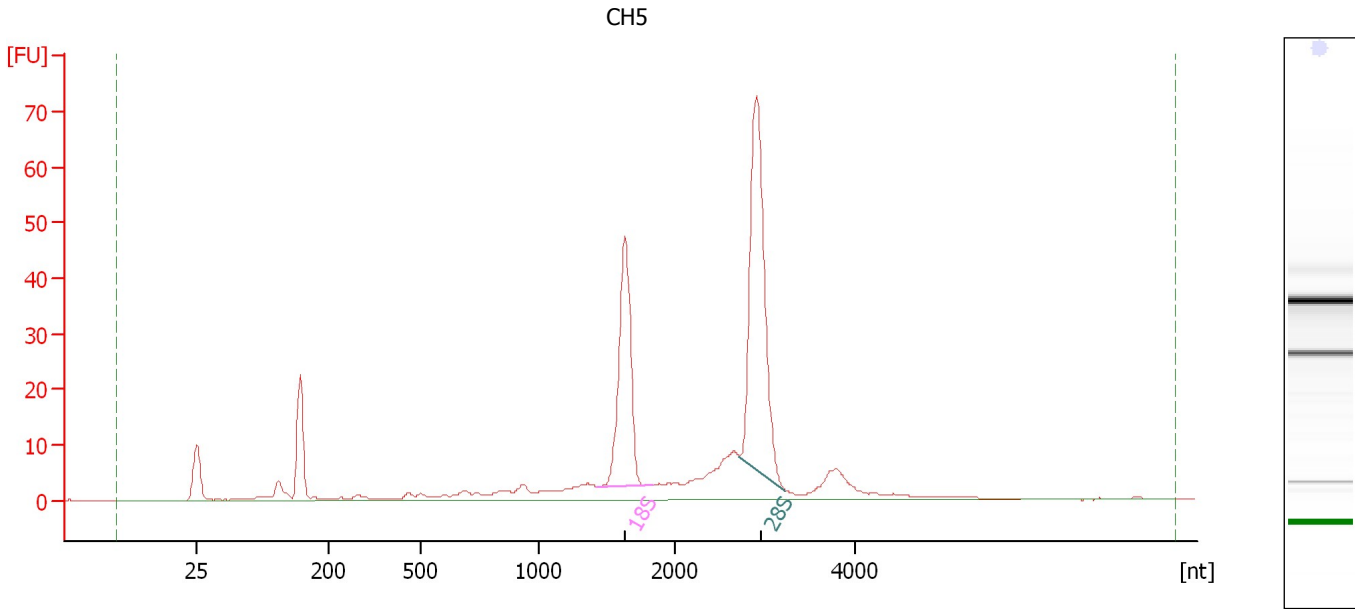
Fragment table for sample 7 : CV6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,469	1,860	39.1	13.4
28S	2,414	3,582	111.9	38.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CH5

RNA Area:	345.1	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	4,082 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.20

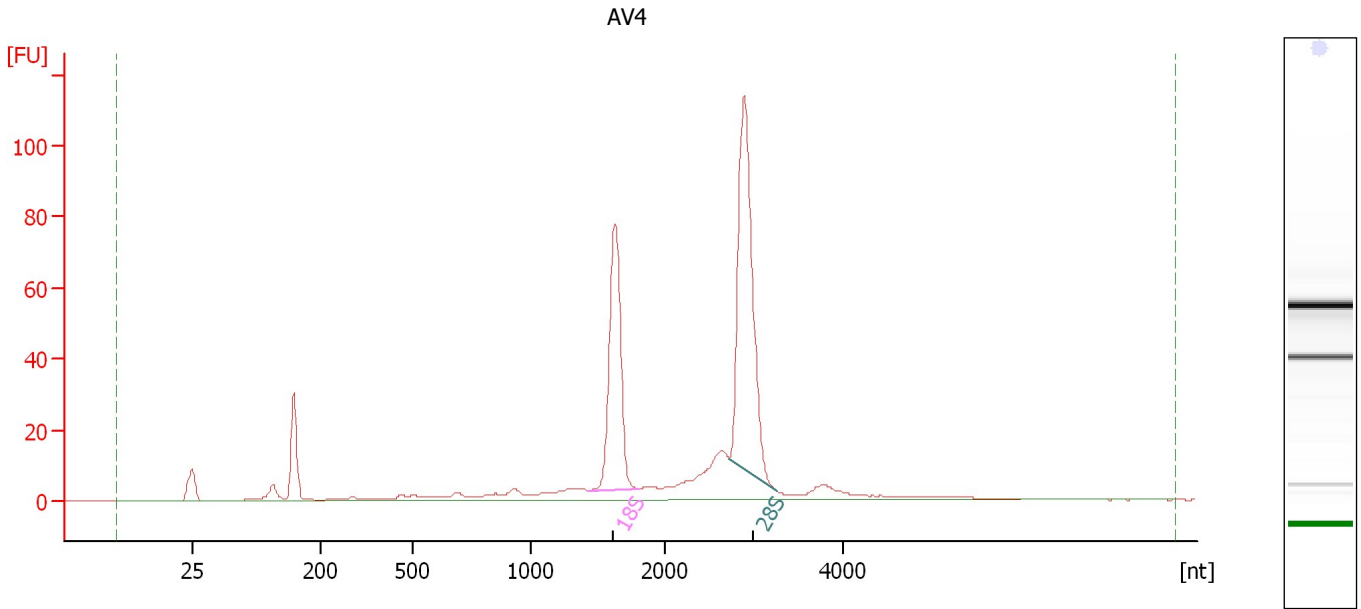
Fragment table for sample 8 : CH5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,433	1,834	66.0	19.1
28S	2,724	3,235	104.6	30.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : AV4

RNA Area: 498.4 RNA Integrity Number (RIN): 9.5 (B.02.08)
RNA Concentration: 5,895 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 9.50

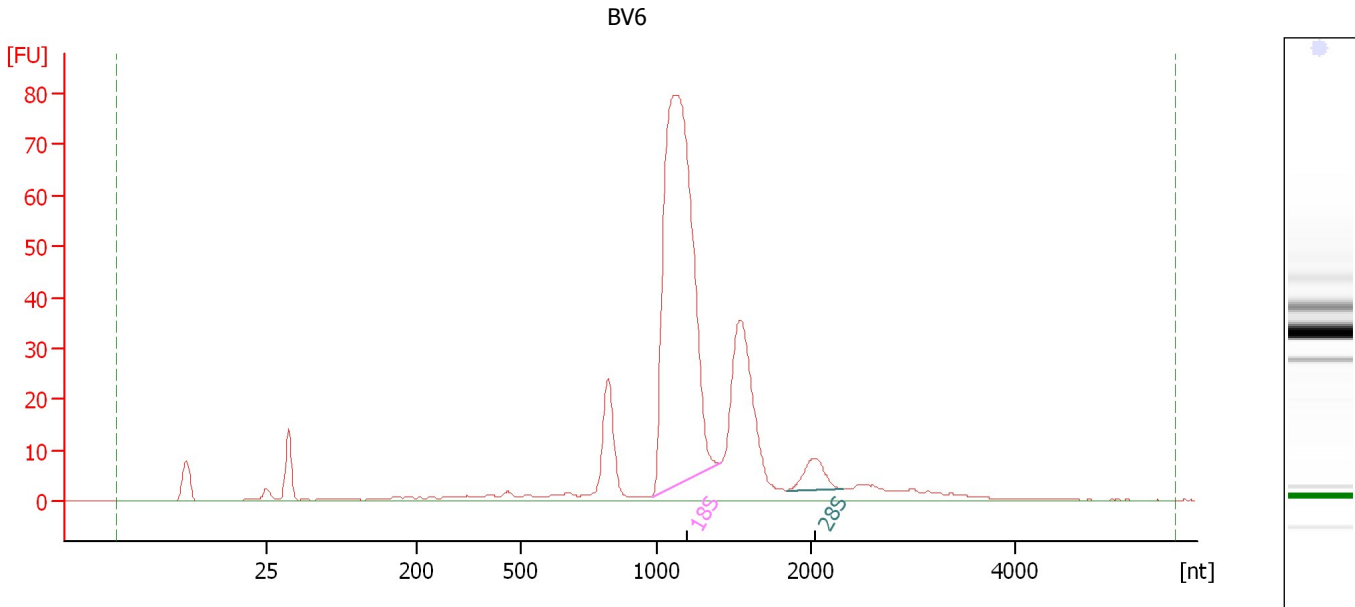
Fragment table for sample 9 : AV4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,441	1,815	106.4	21.4
28S	2,730	3,258	162.9	32.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
 Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : BV6

RNA Area:	536.1	RNA Integrity Number (RIN):	9.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	6,340 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 9.10

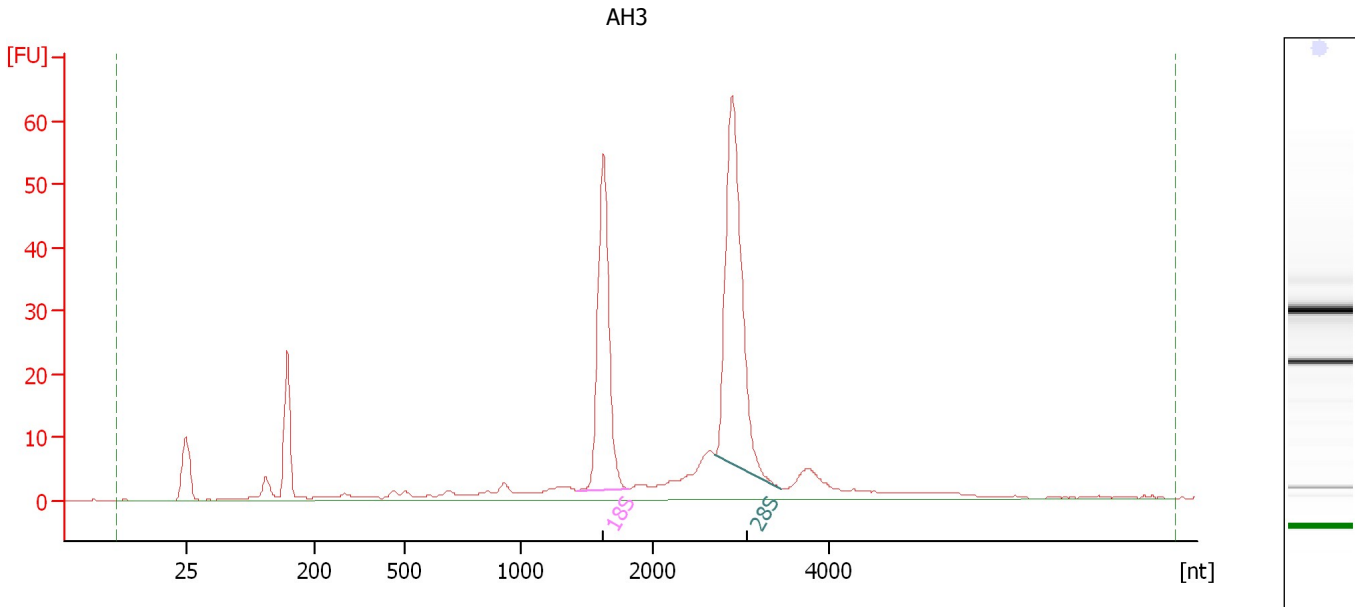
Fragment table for sample 10 : BV6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	985	1,416	264.0	49.2
28S	1,844	2,307	13.7	2.6

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
 Modified: 8/21/2019 11:10:50 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : AH3

RNA Area:	345.1	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	4,082 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 9.40

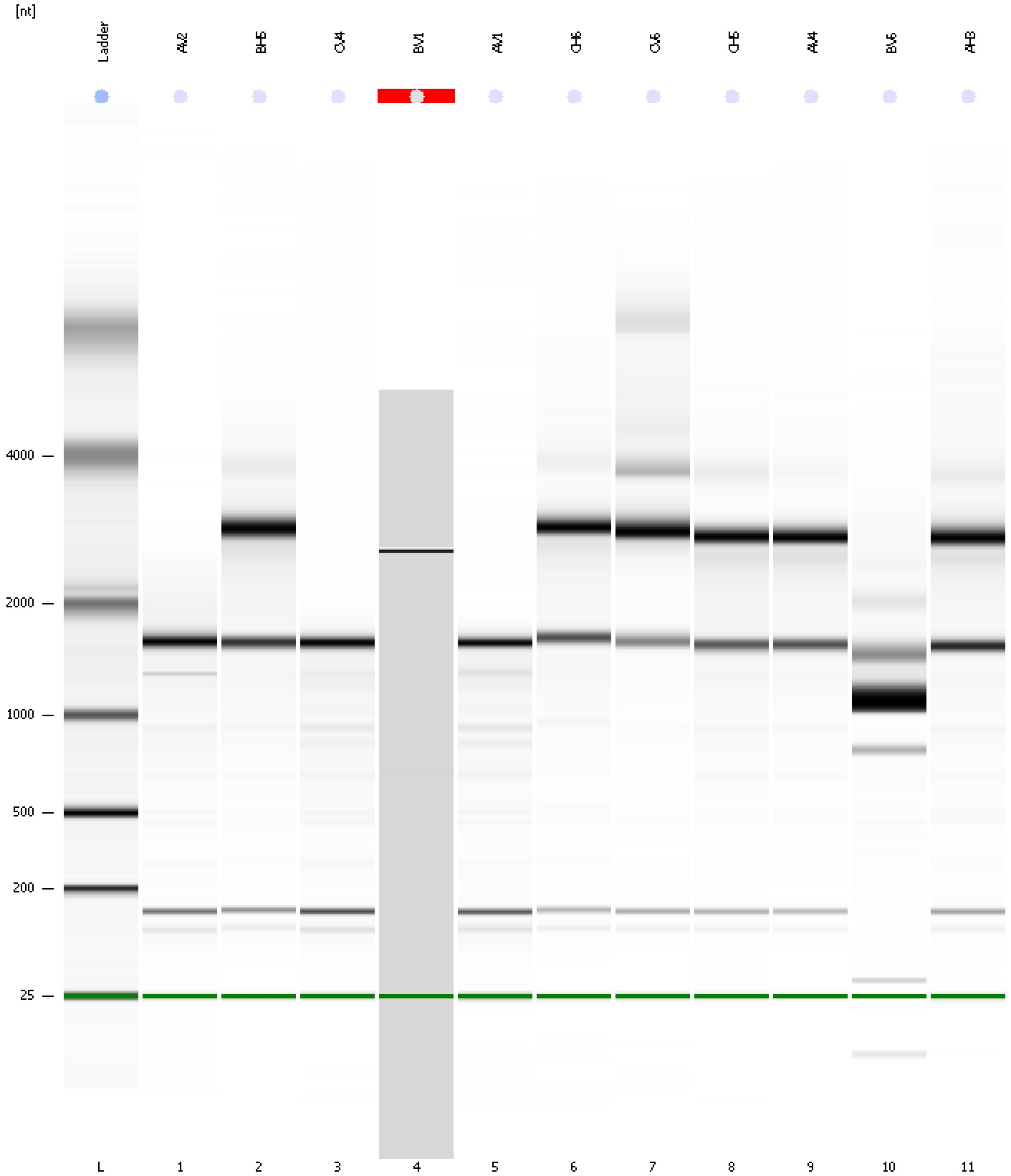
Fragment table for sample 11 : AH3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,418	1,812	75.5	21.9
28S	2,699	3,439	104.0	30.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
Modified: 8/21/2019 11:10:50 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21_001.xad

Created: 8/21/2019 9:45:40 AM
 Modified: 8/21/2019 11:10:50 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		8/21/2019 10:08:35 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Instrument error occurred on port 1, Optical signal too high (1605h)	559	Instrument	Run	Sample 4	8/21/2019 9:58:45 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\2019-08-21\2019-08-21_001.xad)		Instrument	Run		8/21/2019 9:45:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/21/2019 9:45:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/21/2019 9:45:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/21/2019 9:45:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/21/2019 9:45:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/21/2019 9:45:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/21/2019 9:45:45 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1