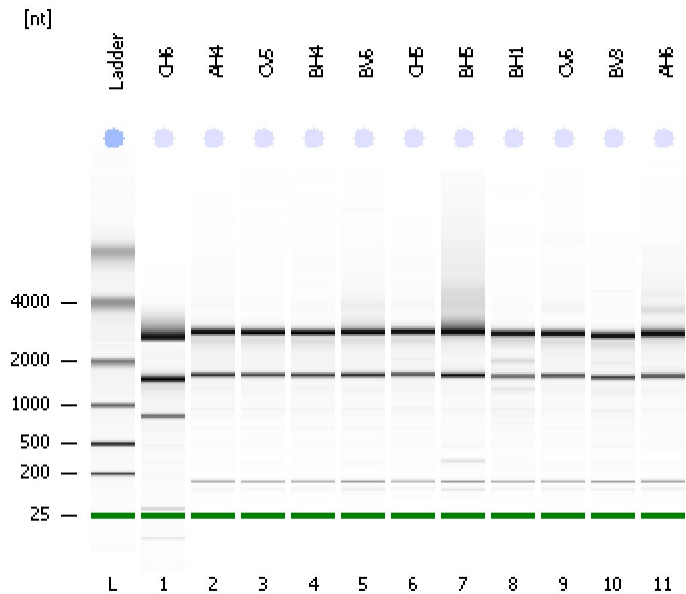


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electrophoresis File Run Summary



Instrument Information:

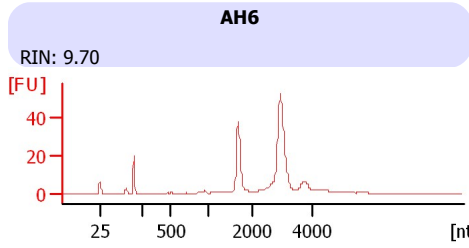
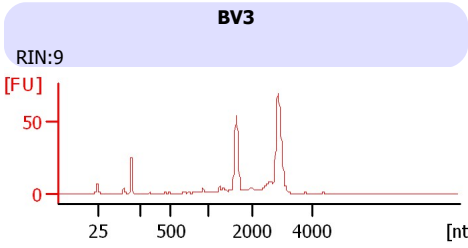
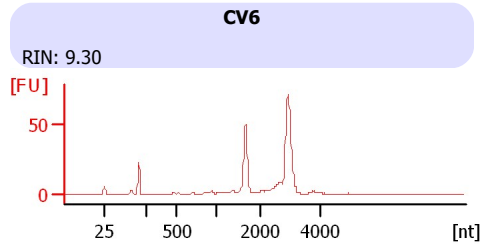
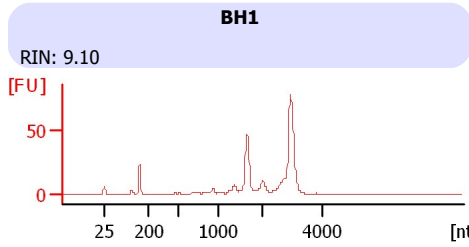
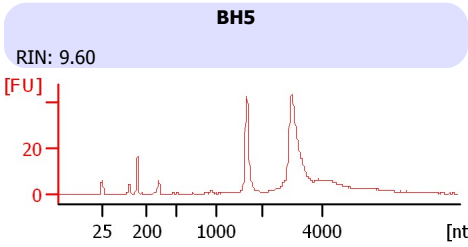
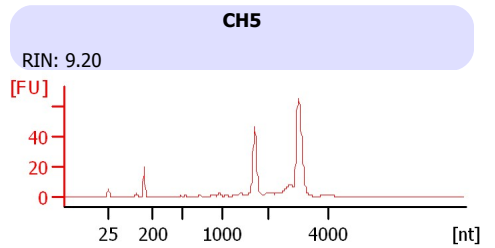
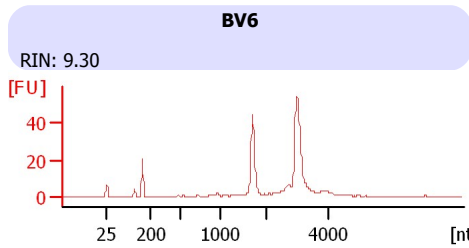
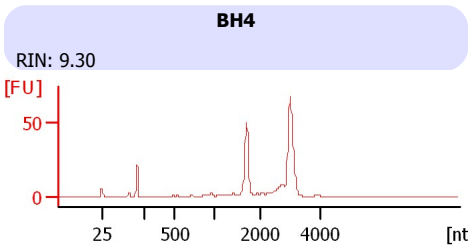
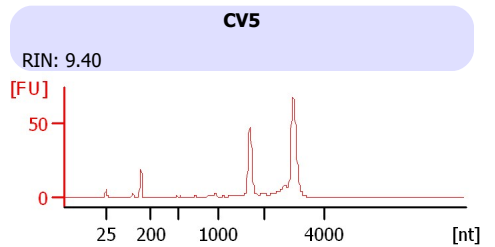
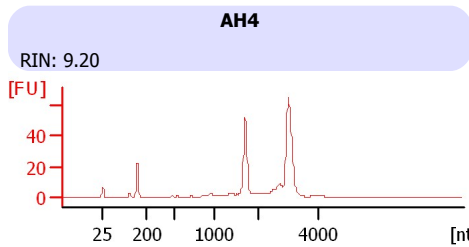
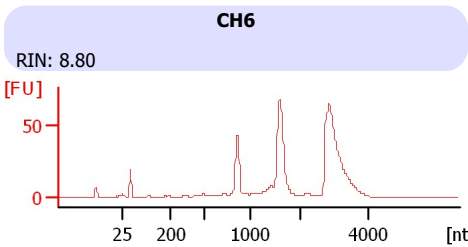
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
 Modified: 8/23/2019 10:21:08 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
CH6		✓	RIN: 8.80	
AH4		✓	RIN: 9.20	
CV5		✓	RIN: 9.40	
BH4		✓	RIN: 9.30	
BV6		✓	RIN: 9.30	
CH5		✓	RIN: 9.20	
BH5		✓	RIN: 9.60	
BH1		✓	RIN: 9.10	
CV6		✓	RIN: 9.30	
BV3		✓	RIN:9	
AH6		✓	RIN: 9.70	
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_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 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/ 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

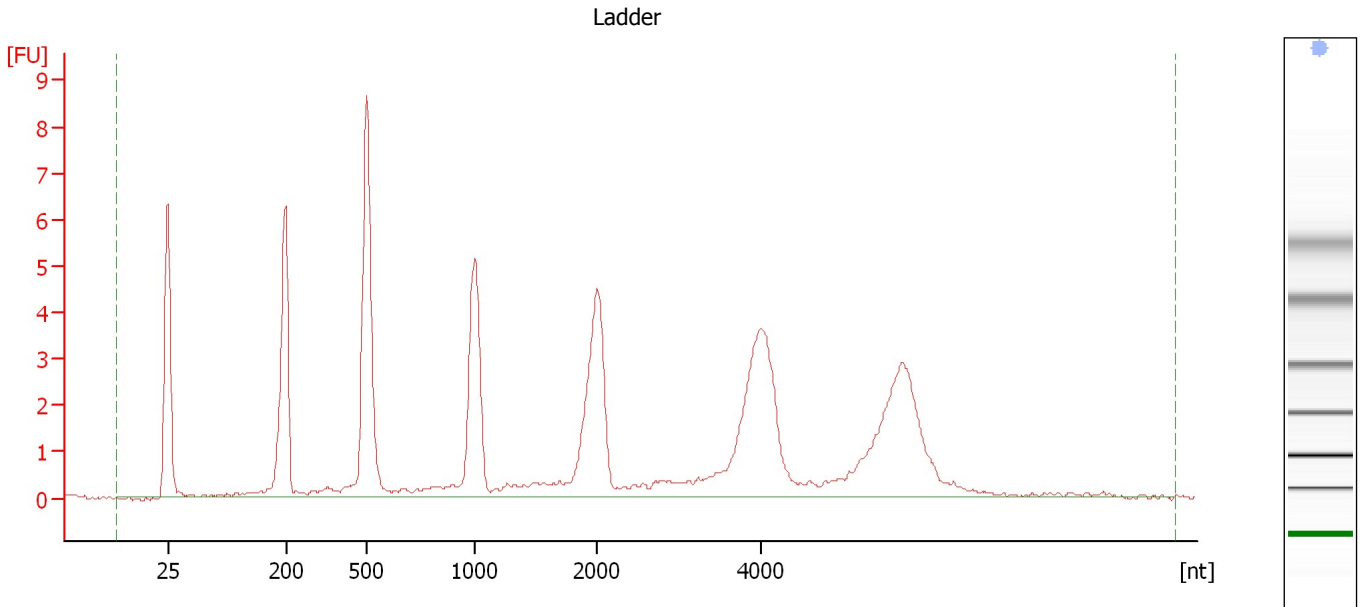
Ladder

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\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary



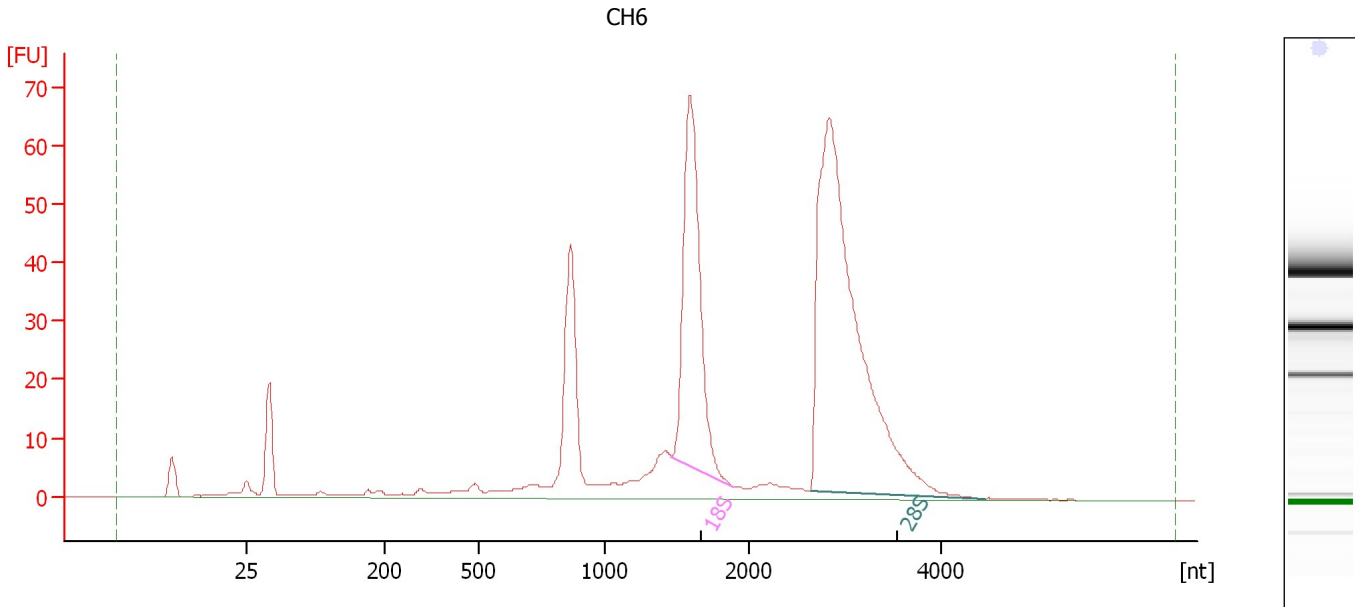
Overall Results for Ladder

RNA Area:	77.8	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\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
 Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : CH6

RNA Area:	605.7	RNA Integrity Number (RIN):	8.8 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	7,784 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.80

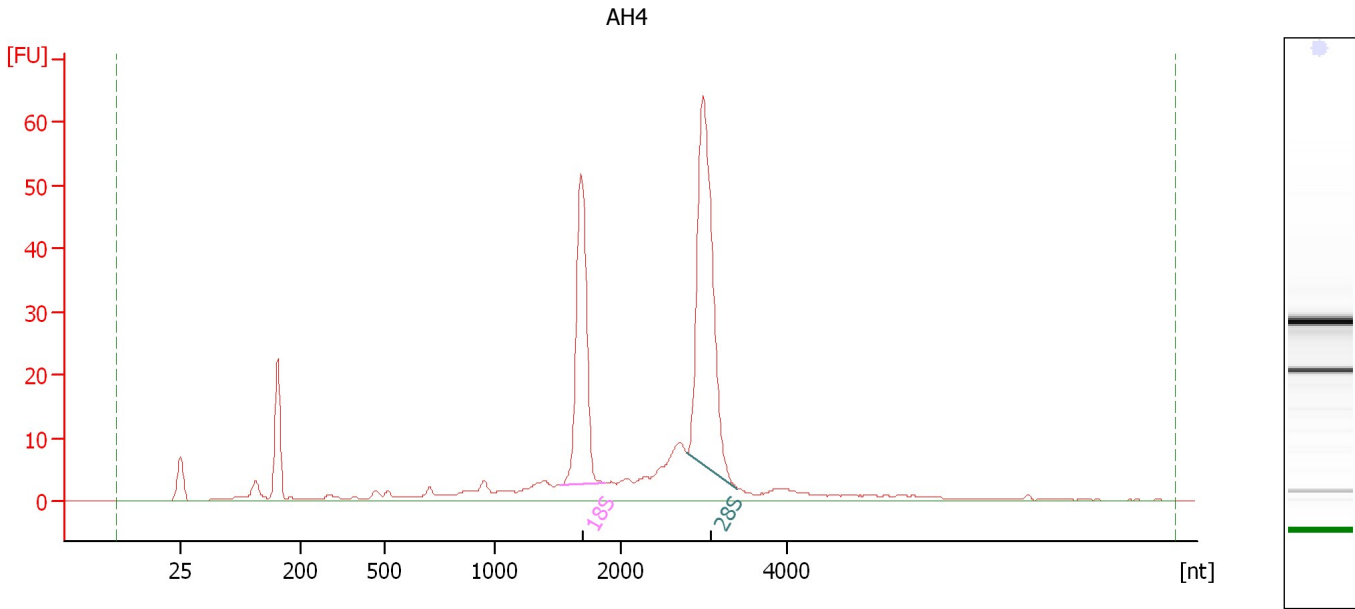
Fragment table for sample 1 : CH6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,457	1,889	121.4	20.0
28S	2,638	4,472	249.9	41.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : AH4

RNA Area: 344.0 RNA Integrity Number (RIN): 9.2 (B.02.08)
RNA Concentration: 4,420 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.20

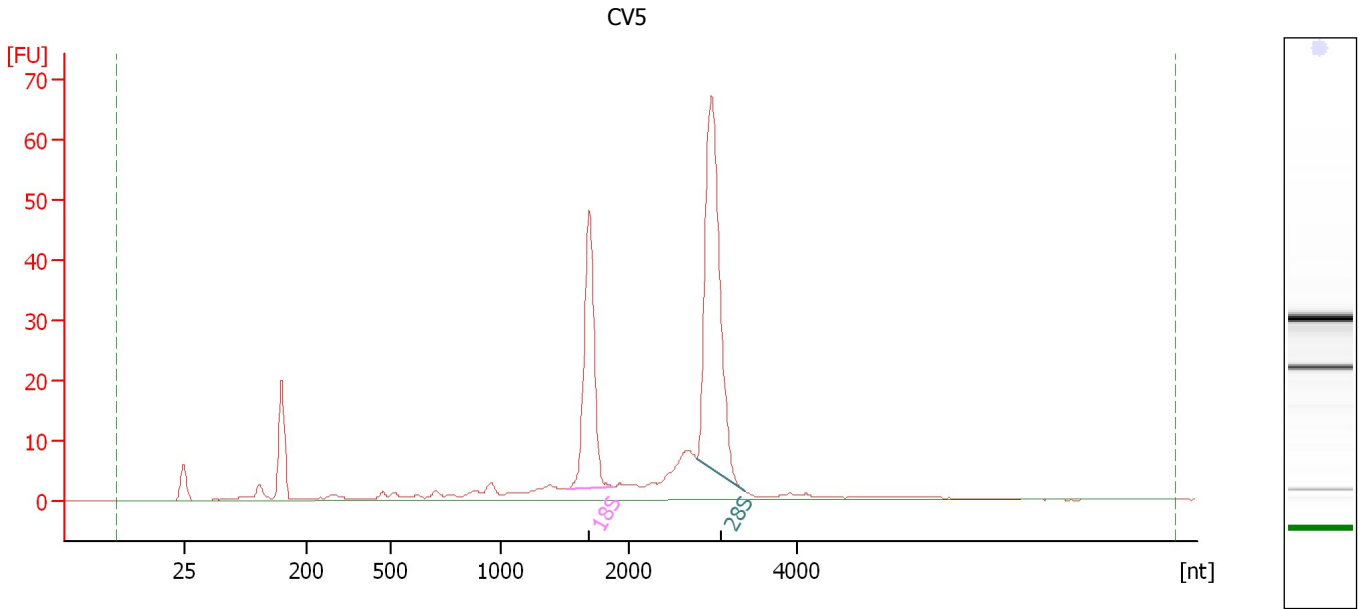
Fragment table for sample 2 : AH4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,532	1,871	66.2	19.2
28S	2,802	3,401	103.8	30.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : CV5

RNA Area:	316.0	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	4,061 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.40

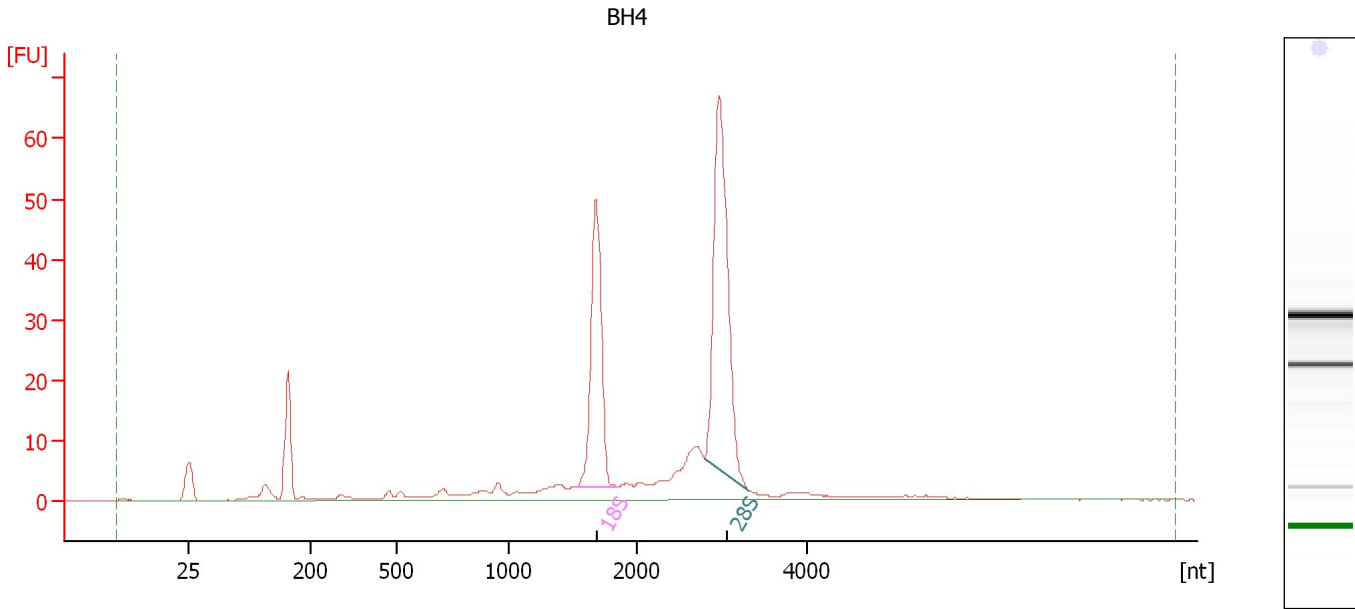
Fragment table for sample 3 : CV5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,514	1,884	61.6	19.5
28S	2,799	3,367	103.3	32.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : BH4

RNA Area:	306.2	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	3,934 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.30

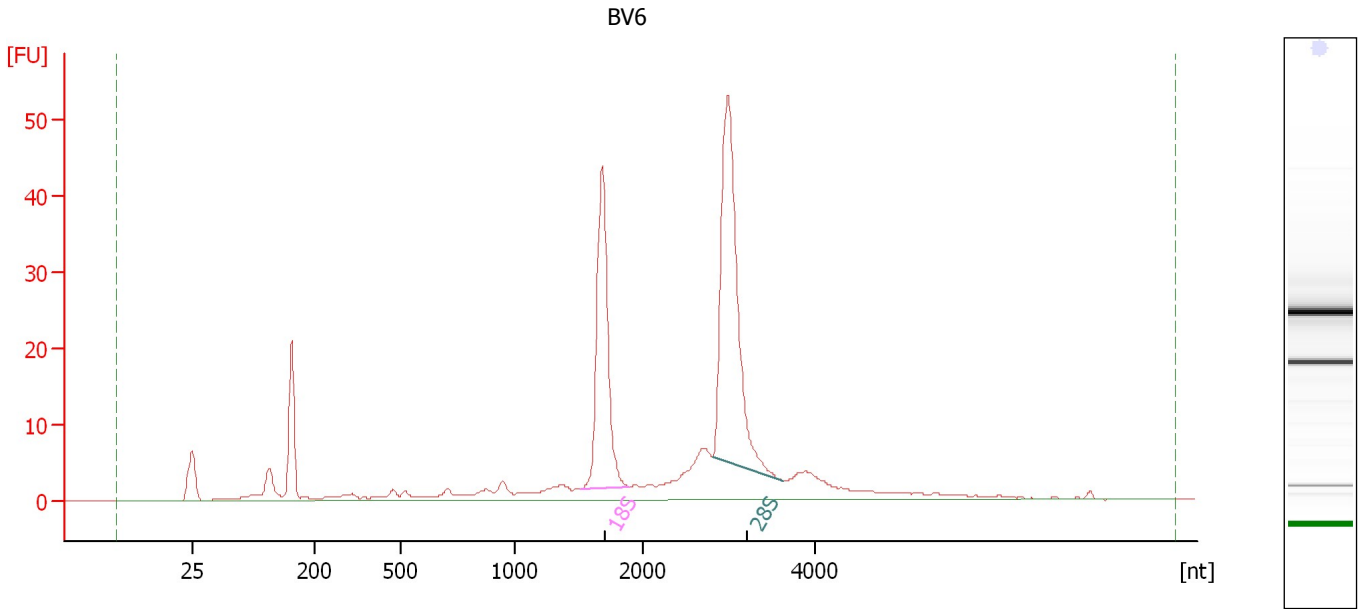
Fragment table for sample 4 : BH4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,529	1,846	63.6	20.8
28S	2,796	3,309	98.5	32.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BV6

RNA Area:	297.4	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	3,821 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.30

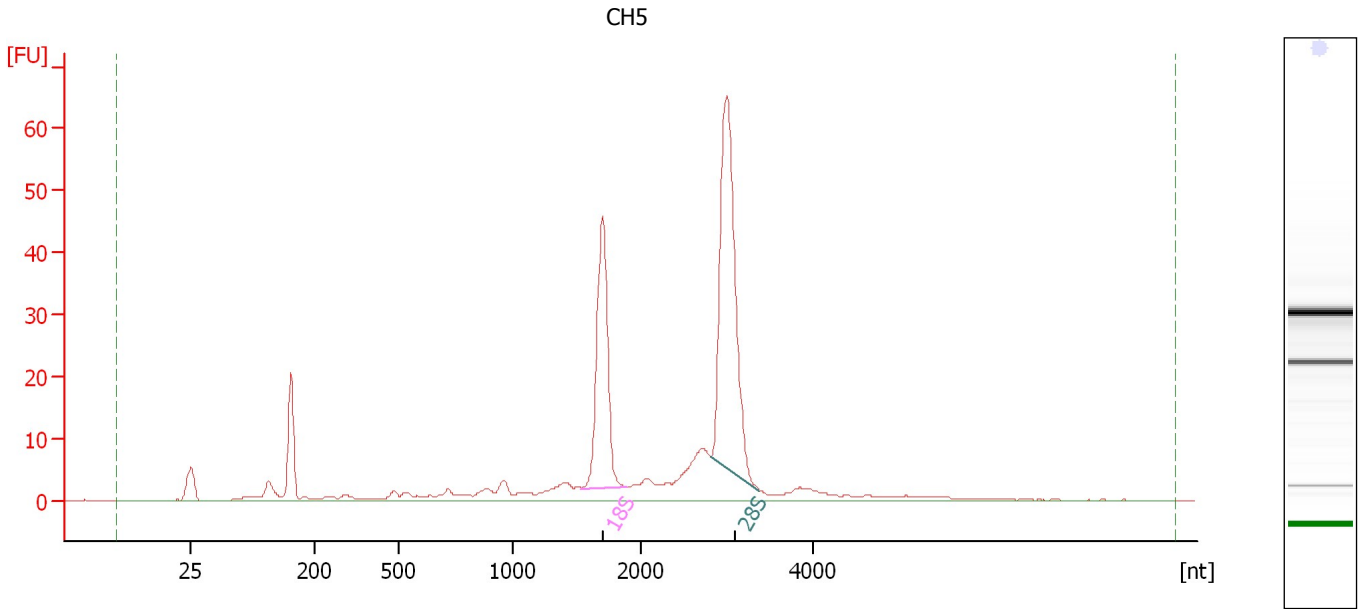
Fragment table for sample 5 : BV6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,518	1,890	58.7	19.7
28S	2,806	3,640	87.5	29.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : CH5

RNA Area:	318.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	4,097 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.20

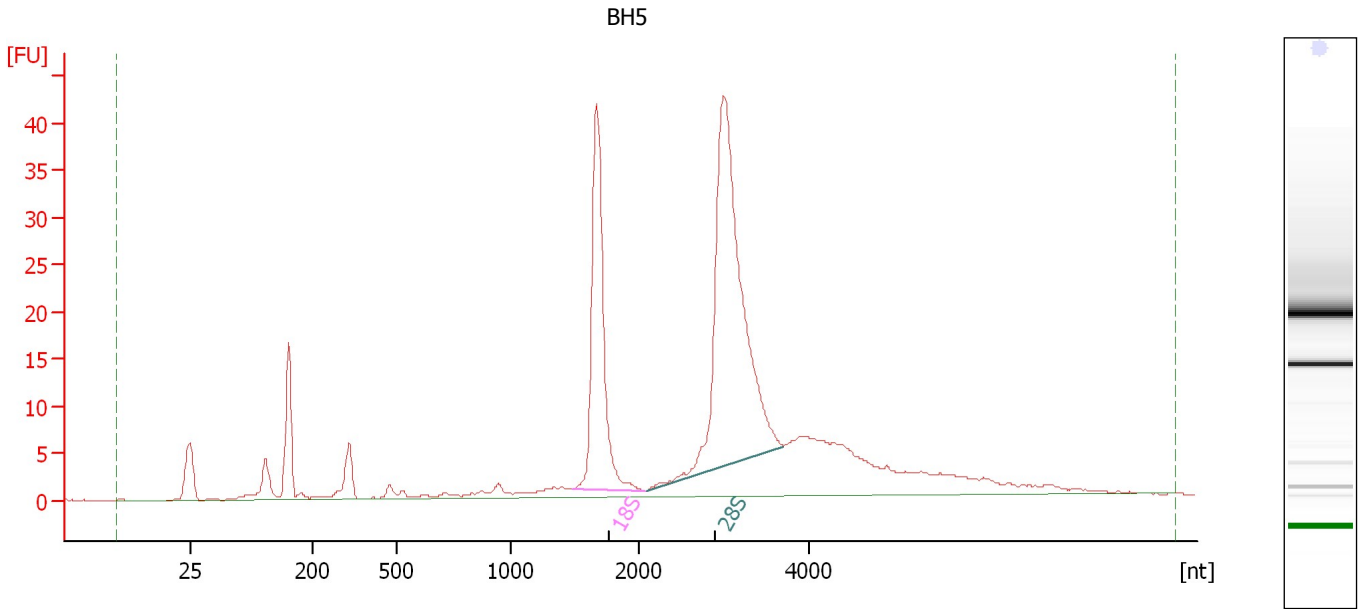
Fragment table for sample 6 : CH5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,541	1,889	60.8	19.1
28S	2,819	3,381	100.4	31.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
 Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BH5

RNA Area:	339.5	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	4,363 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.60

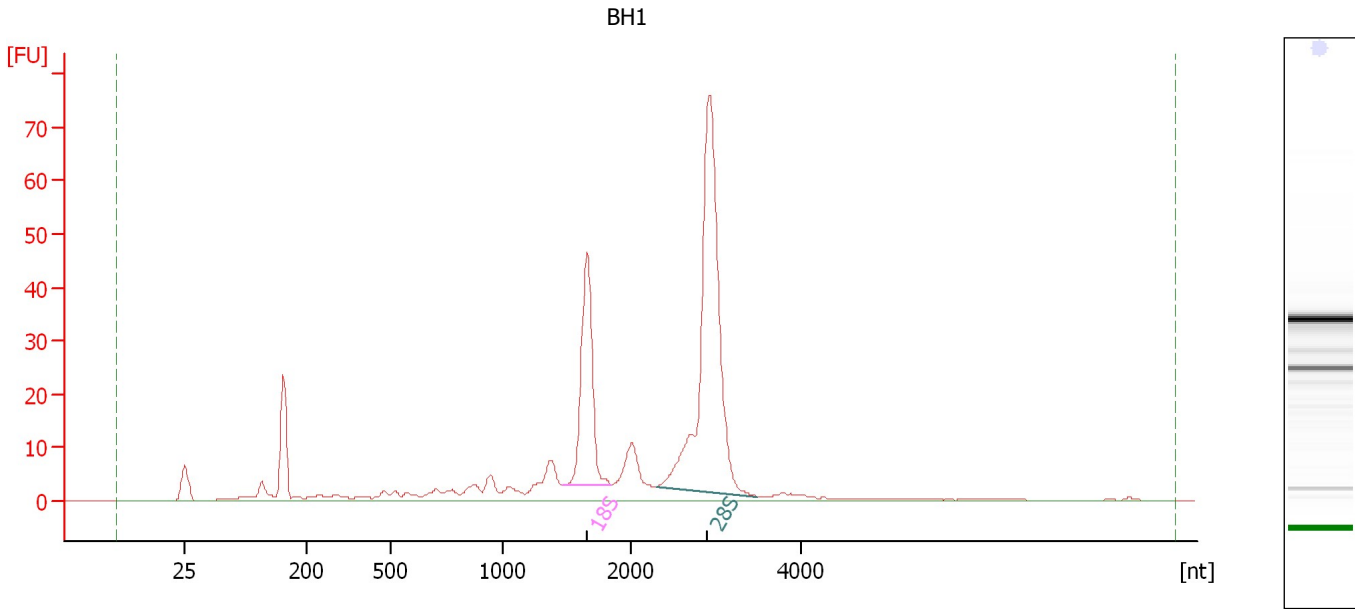
Fragment table for sample 7 : BH5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,489	2,070	59.9	17.6
28S	2,095	3,695	114.4	33.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : BH1

RNA Area:	386.8	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	4,970 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 9.10

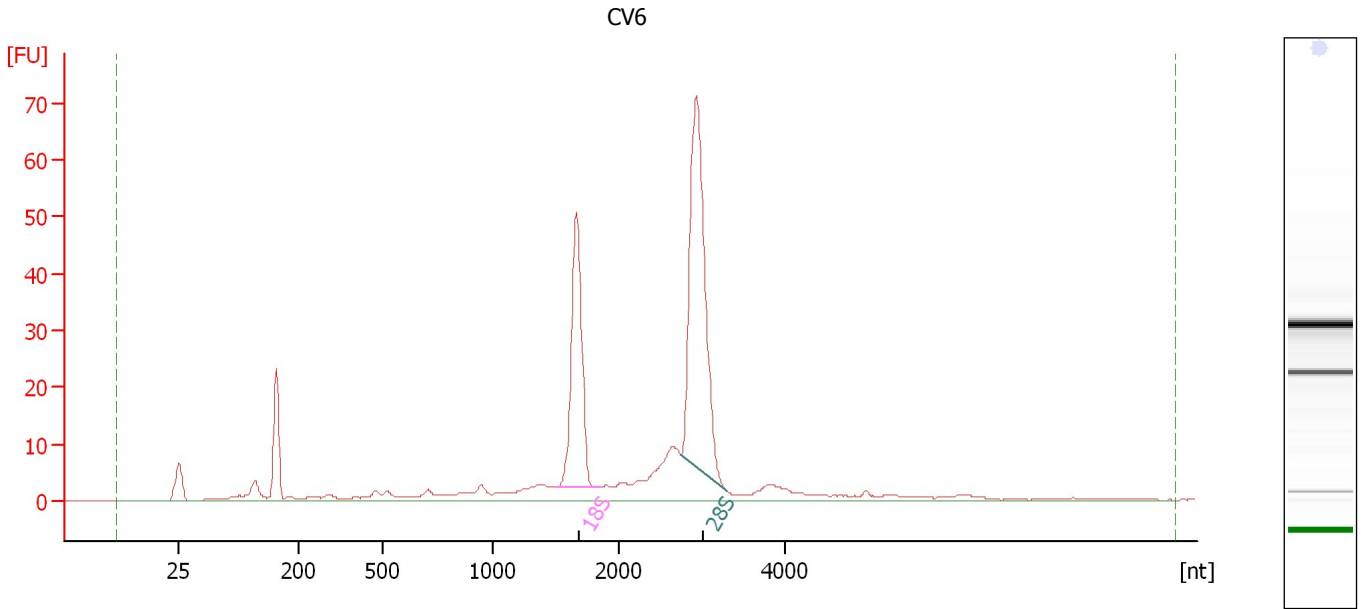
Fragment table for sample 8 : BH1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,474	1,851	62.7	16.2
28S	2,306	3,492	153.8	39.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : CV6

RNA Area: 362.7 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 4,661 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.30

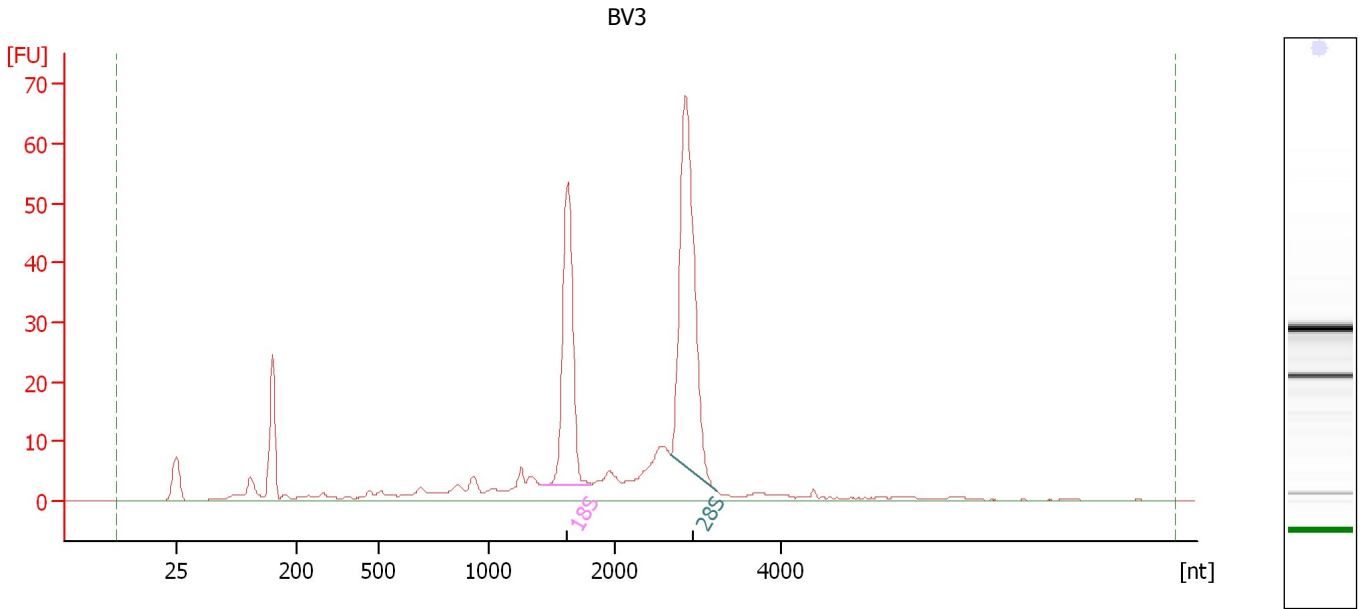
Fragment table for sample 9 : CV6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,505	1,862	67.0	18.5
28S	2,751	3,288	113.2	31.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
 Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : BV3

RNA Area:	364.8	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	4,688 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN:9

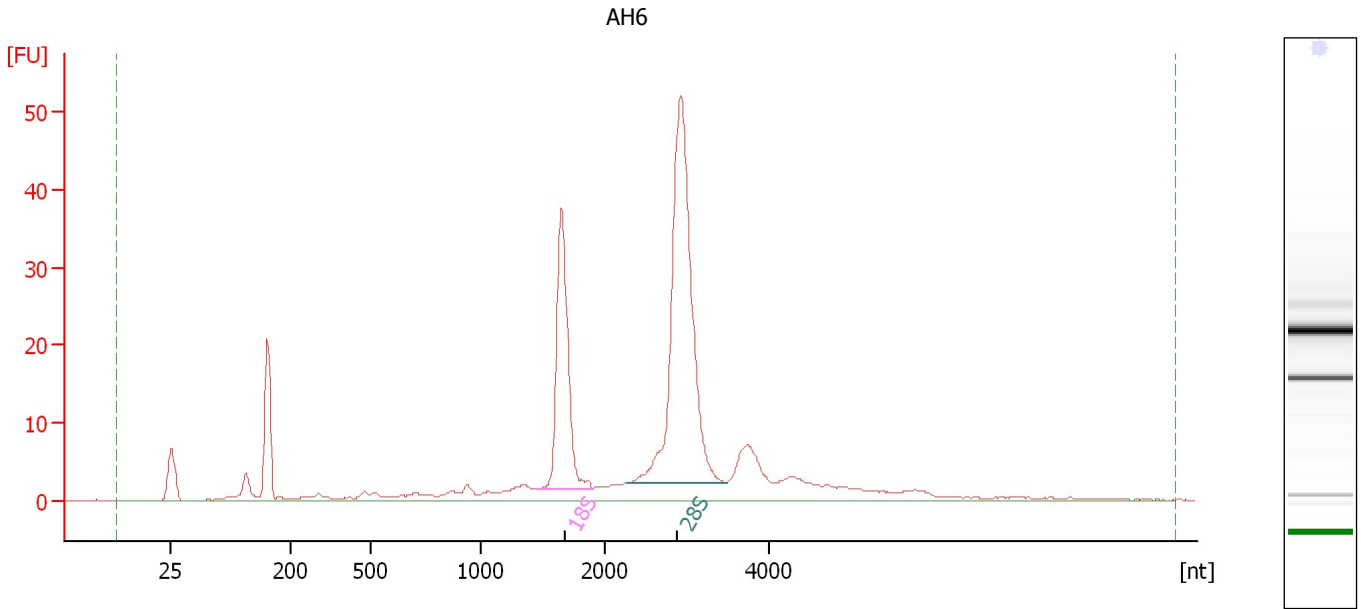
Fragment table for sample 10 : BV3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,433	1,817	67.7	18.6
28S	2,675	3,227	106.6	29.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : AH6

RNA Area: 317.6 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 4,081 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN: 9.70

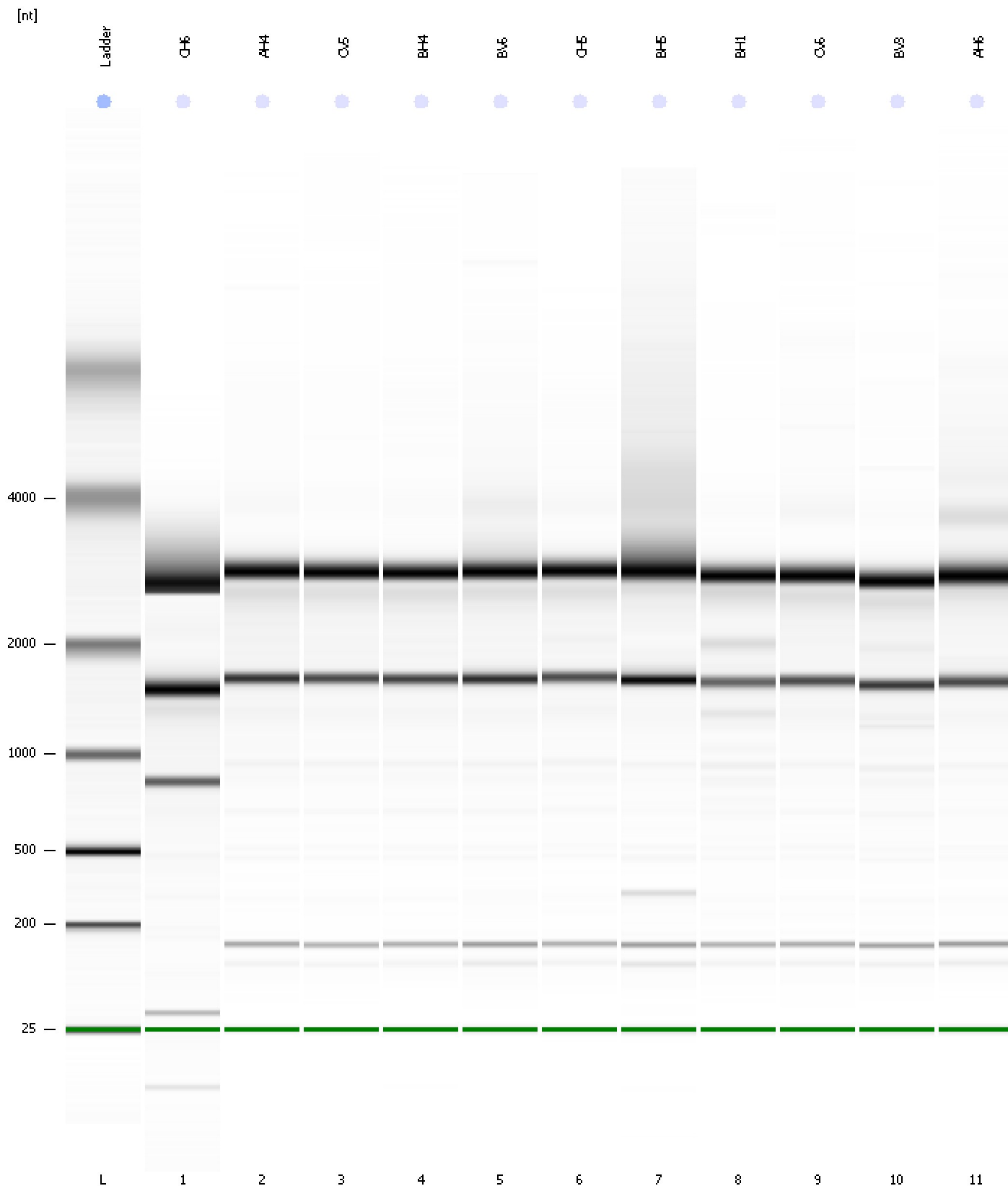
Fragment table for sample 11 : AH6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,458	1,915	55.1	17.4
28S	2,275	3,483	116.1	36.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
Modified: 8/23/2019 10:21:08 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-23\2019-08-23_001.xad

Created: 8/23/2019 9:32:46 AM
 Modified: 8/23/2019 10:21:08 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 9:55:39 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_001.xad)		Instrument	Run		8/23/2019 9:32:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/23/2019 9:32:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/23/2019 9:32:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/23/2019 9:32:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/23/2019 9:32:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/23/2019 9:32:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/23/2019 9:32:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1