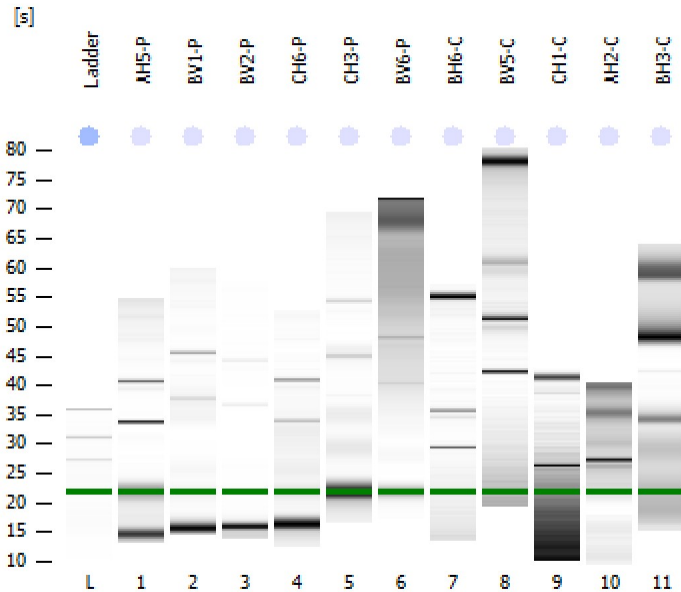


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
Modified: 12/9/2019 10:41:06 AM

Electrophoresis File Run Summary



Instrument Information:

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

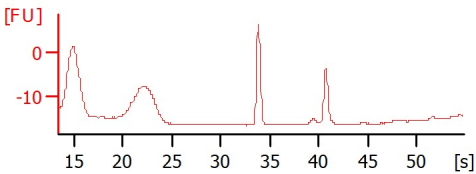
Assay Information:

Assay Origin Path: C:\Program Files (x86)\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.

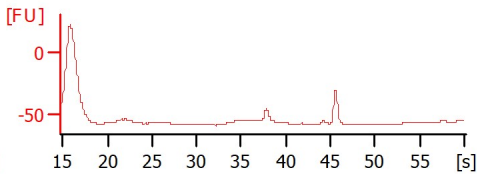
Chip Information:

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

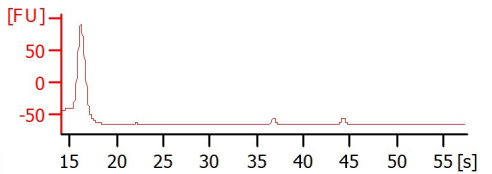
**AH5-P**  
RIN: 6.60



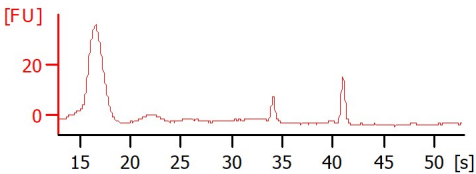
**BV1-P**  
RIN: 7.50



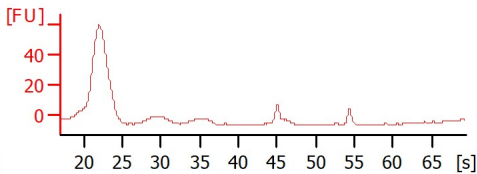
**BV2-P**  
RIN: 6.50



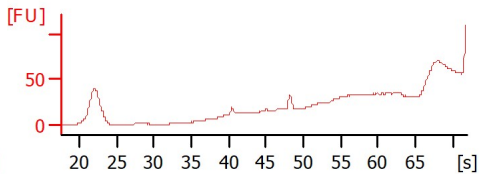
**CH6-P**  
RIN: 6.30



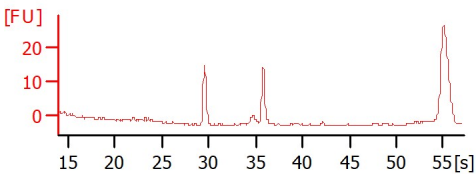
**CH3-P**  
RIN: 6.70



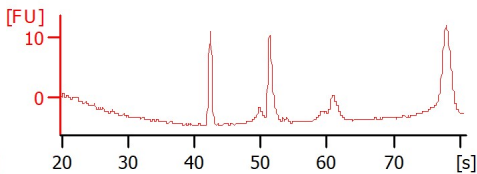
**BV6-P**  
RIN: 7



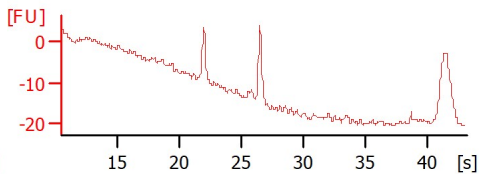
**BH6-C**  
RIN: 2



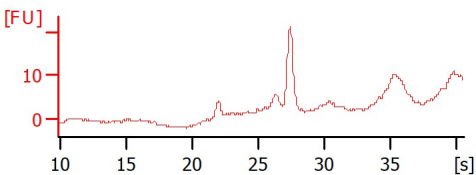
**BV5-C**  
RIN: 9.60



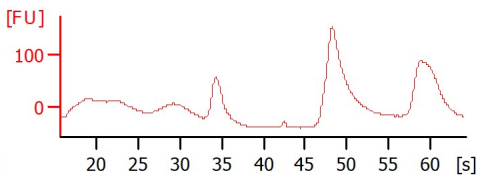
**CH1-C**  
RIN: 10



**AH2-C**  
RIN: 2.60



**BH3-C**  
RIN: 5.80



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
AH5-P		✓	RIN: 6.60	
BV1-P		✓	RIN: 7.50	
BV2-P		✓	RIN: 6.50	
CH6-P		✓	RIN: 6.30	
CH3-P		✓	RIN: 6.70	
BV6-P		✓	RIN:7	
BH6-C		✓	RIN:2	
BV5-C		✓	RIN: 9.60	
CH1-C		✓	RIN:10	
AH2-C		✓	RIN: 2.60	
BH3-C		✓	RIN: 5.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 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

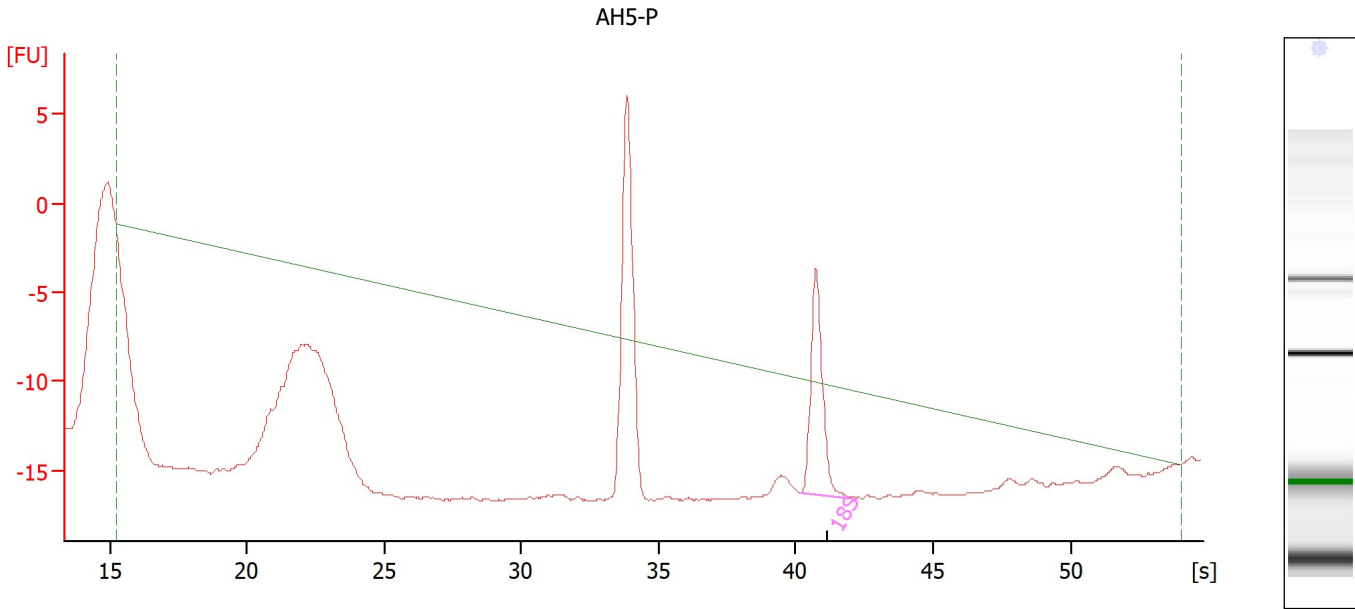
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary**



**Overall Results for sample 1 : AH5-P**

RNA Area:	17.0	RNA Integrity Number (RIN):	6.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	119 µg/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: 6.60

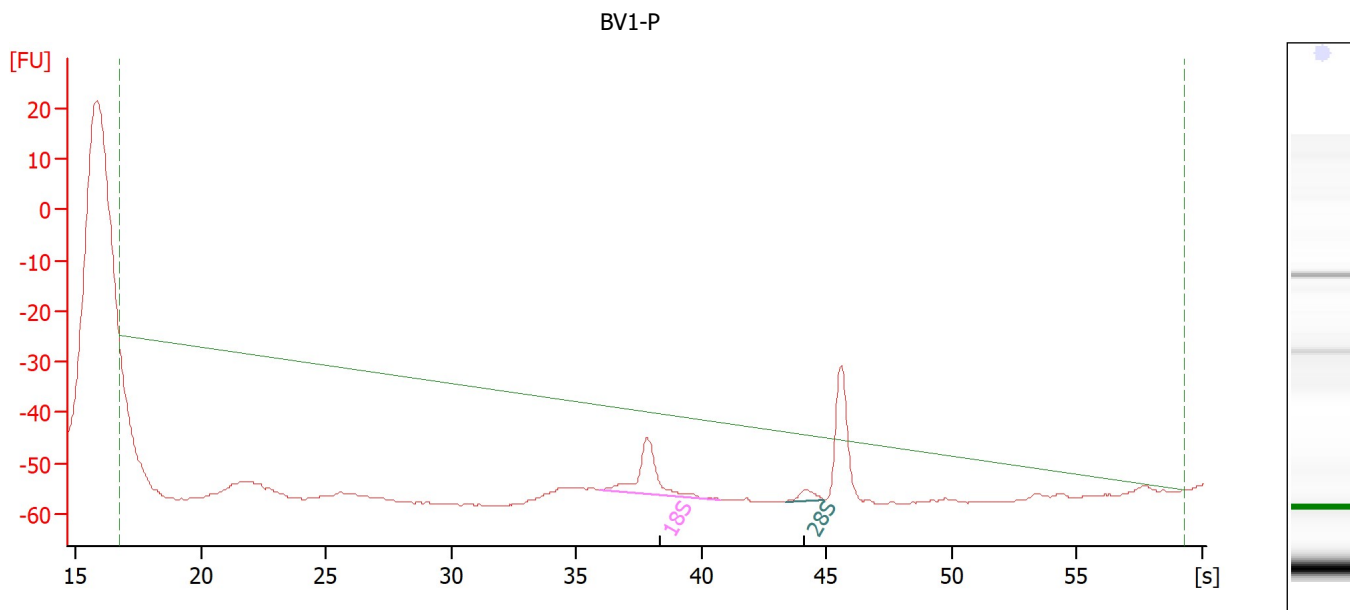
**Fragment table for sample 1 : AH5-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.20	42.16	15.1	89.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : BV1-P**

RNA Area:	10.6	RNA Integrity Number (RIN):	7.5 (B.02.10)
RNA Concentration:	75 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]:	0.1	Result Flagging Label:	RIN: 7.50

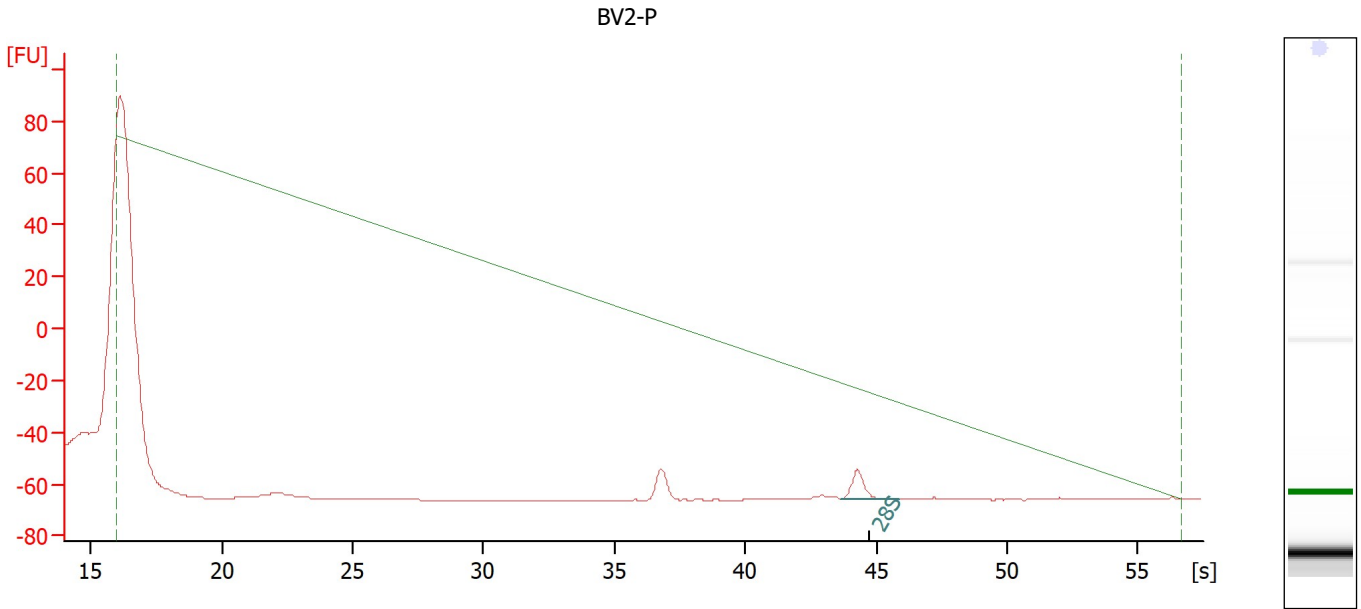
**Fragment table for sample 2 : BV1-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	35.92	40.78	24.6	231.6
28S	43.40	44.95	3.3	31.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : BV2-P**

RNA Area:	22.6	RNA Integrity Number (RIN):	6.5 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	159 µg/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: 6.50

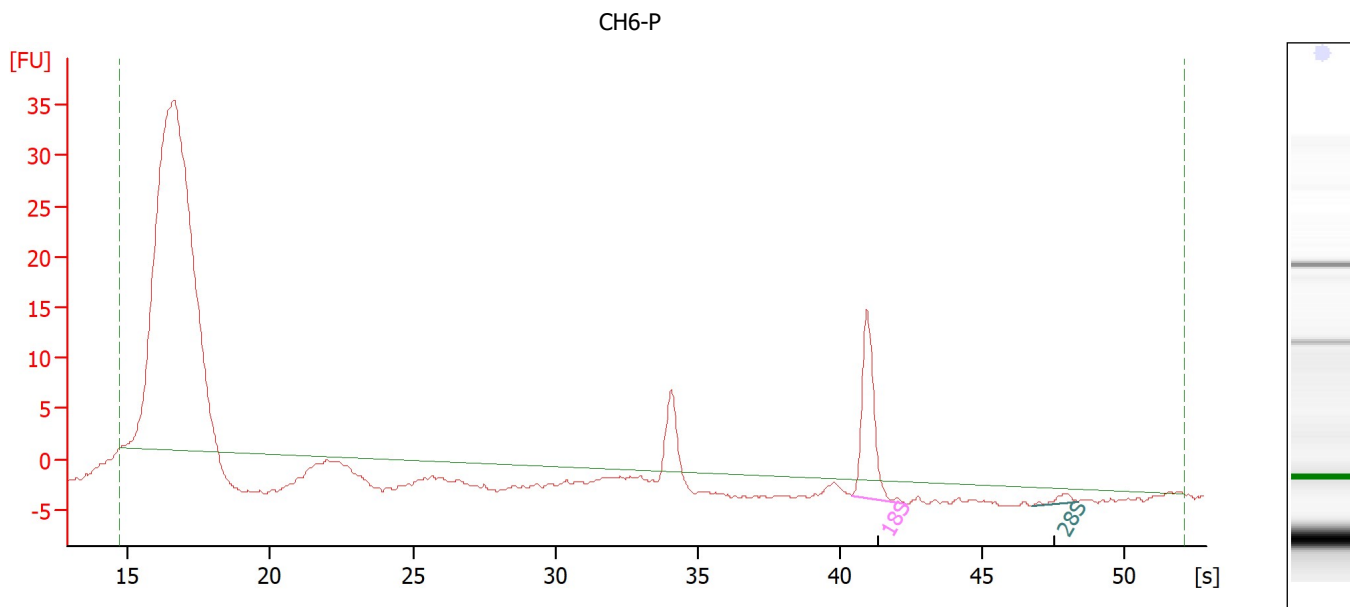
**Fragment table for sample 3 : BV2-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
28S	43.67	45.89	13.8	60.8

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : CH6-P**

RNA Area:	343.6	RNA Integrity Number (RIN):	6.3 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	2,412 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]:	0.1	Result Flagging Label:	RIN: 6.30

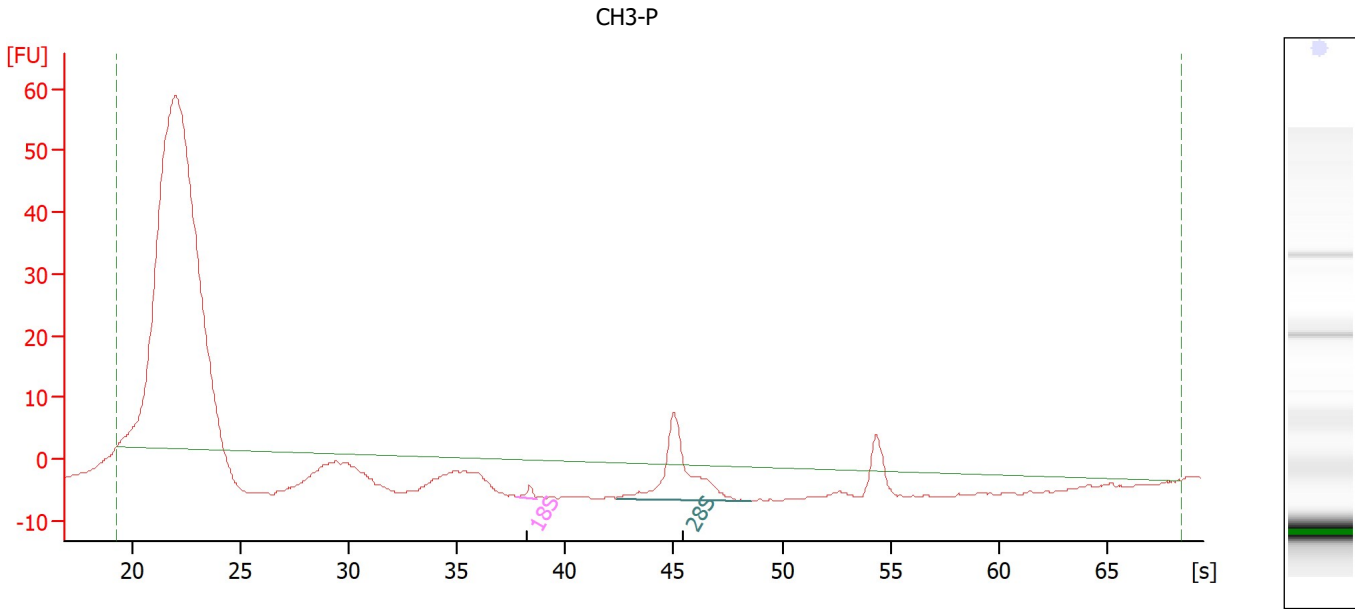
**Fragment table for sample 4 : CH6-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.42	42.34	21.9	6.4
28S	46.72	48.38	1.2	0.4

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : CH3-P**

RNA Area:	11.3	RNA Integrity Number (RIN):	6.7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	80 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]:	27.3	Result Flagging Label:	RIN: 6.70

**Fragment table for sample 5 : CH3-P**

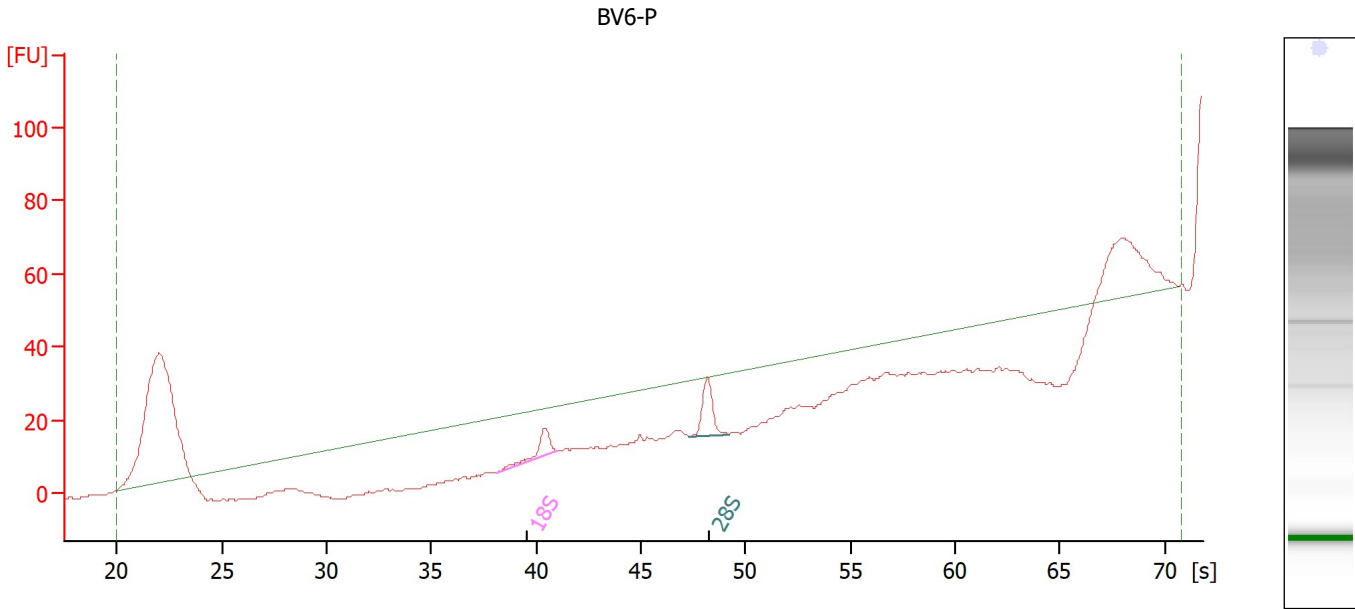
Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	37.76	38.65	1.4	12.6
28S	42.36	48.51	38.9	343.4



Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : BV6-P**

RNA Area:	204.1	RNA Integrity Number (RIN):	7 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	1,433 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:7

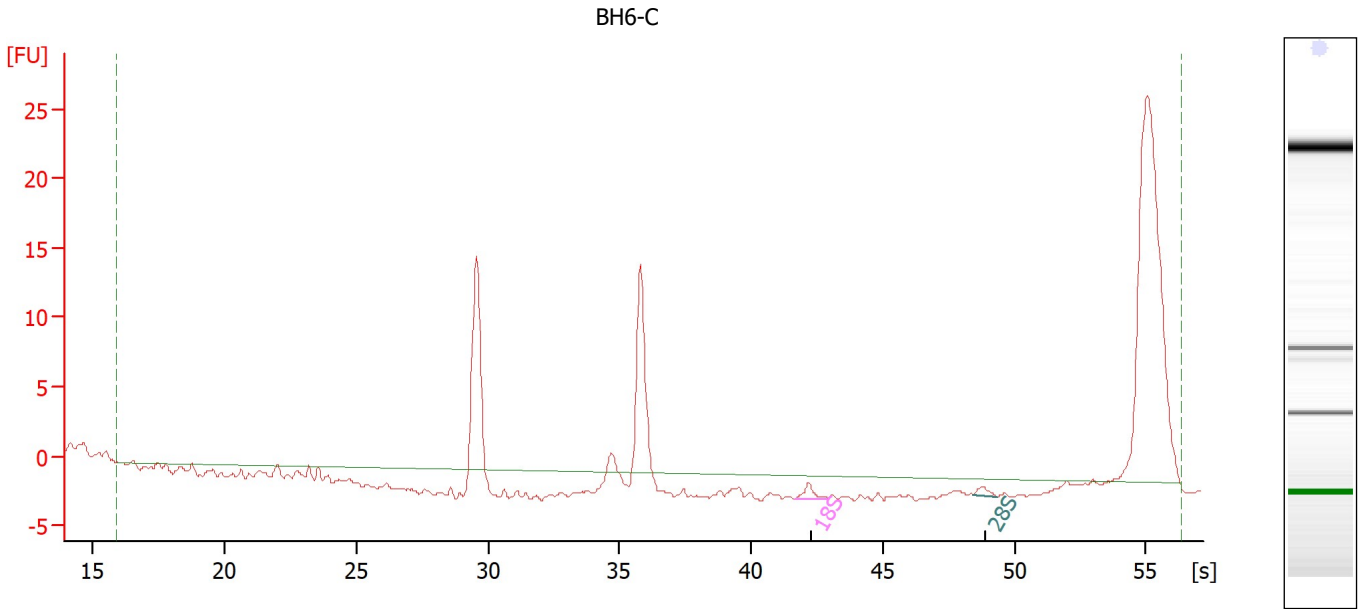
**Fragment table for sample 6 : BV6-P**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.10	41.03	12.1	5.9
28S	47.33	49.23	18.1	8.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : BH6-C**

RNA Area:	81.0	RNA Integrity Number (RIN):	2 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	568 µg/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]:	0.6	Result Flagging Label:	RIN:2

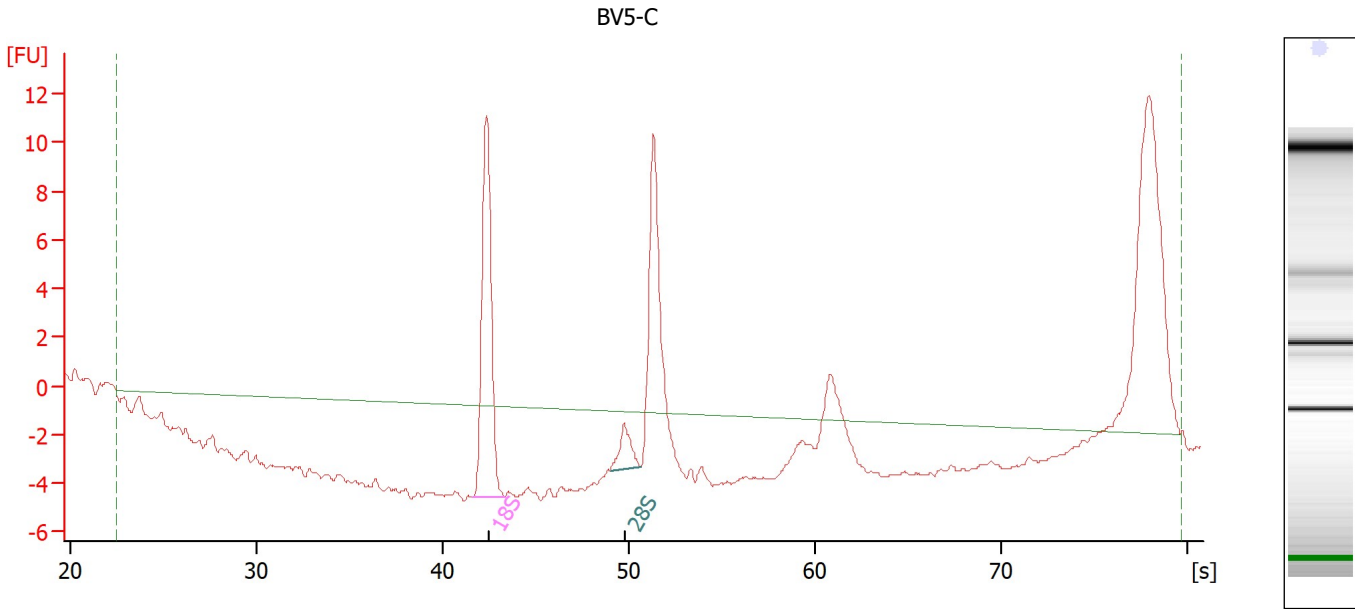
**Fragment table for sample 7 : BH6-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.63	42.90	1.0	1.3
28S	48.41	49.35	0.6	0.7

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : BV5-C**

RNA Area:	52.8	RNA Integrity Number (RIN):	9.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	371 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]:	0.1	Result Flagging Label:	RIN: 9.60

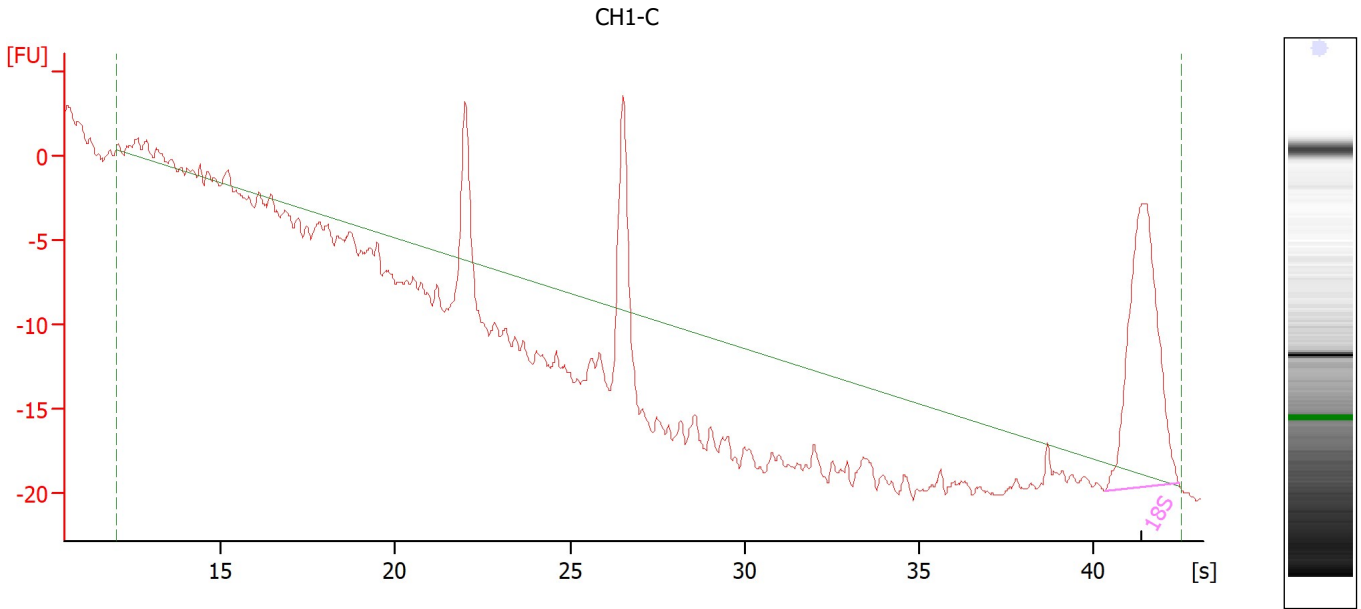
**Fragment table for sample 8 : BV5-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.63	43.31	21.1	39.9
28S	49.02	50.64	2.6	4.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : CH1-C**

RNA Area:	57.5	RNA Integrity Number (RIN):	10 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	404 µg/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:10

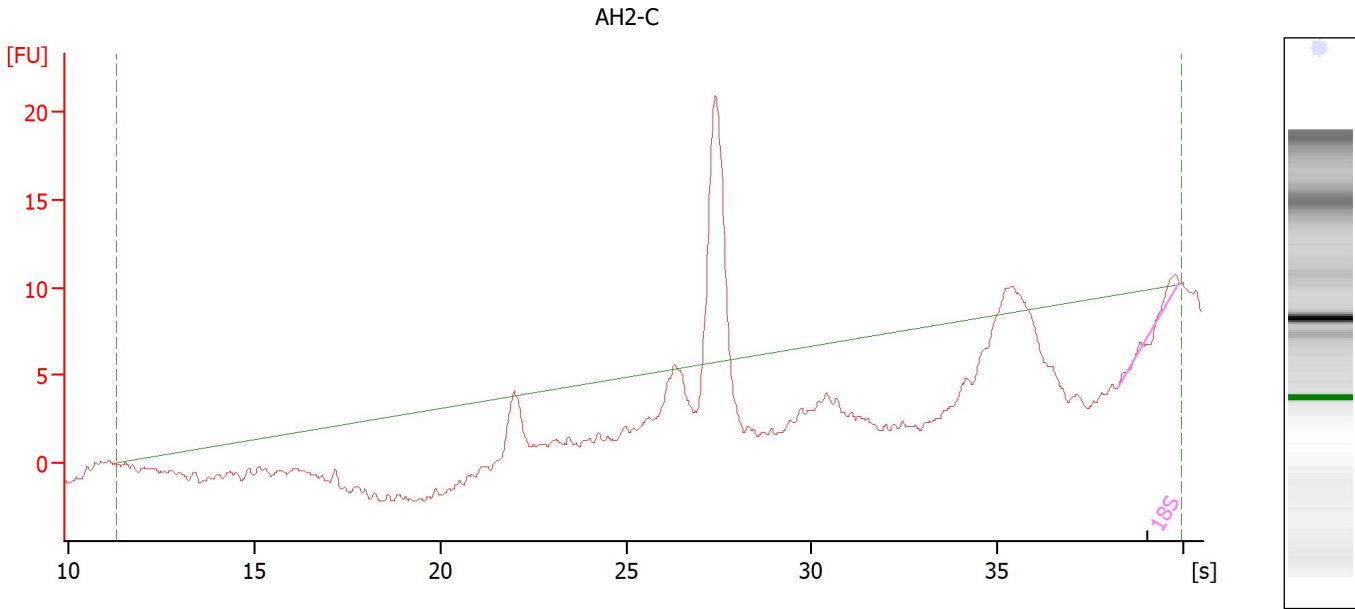
**Fragment table for sample 9 : CH1-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	40.33	42.46	39.5	68.6

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : AH2-C**

RNA Area:	25.7	RNA Integrity Number (RIN):	2.6 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	181 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: 2.60

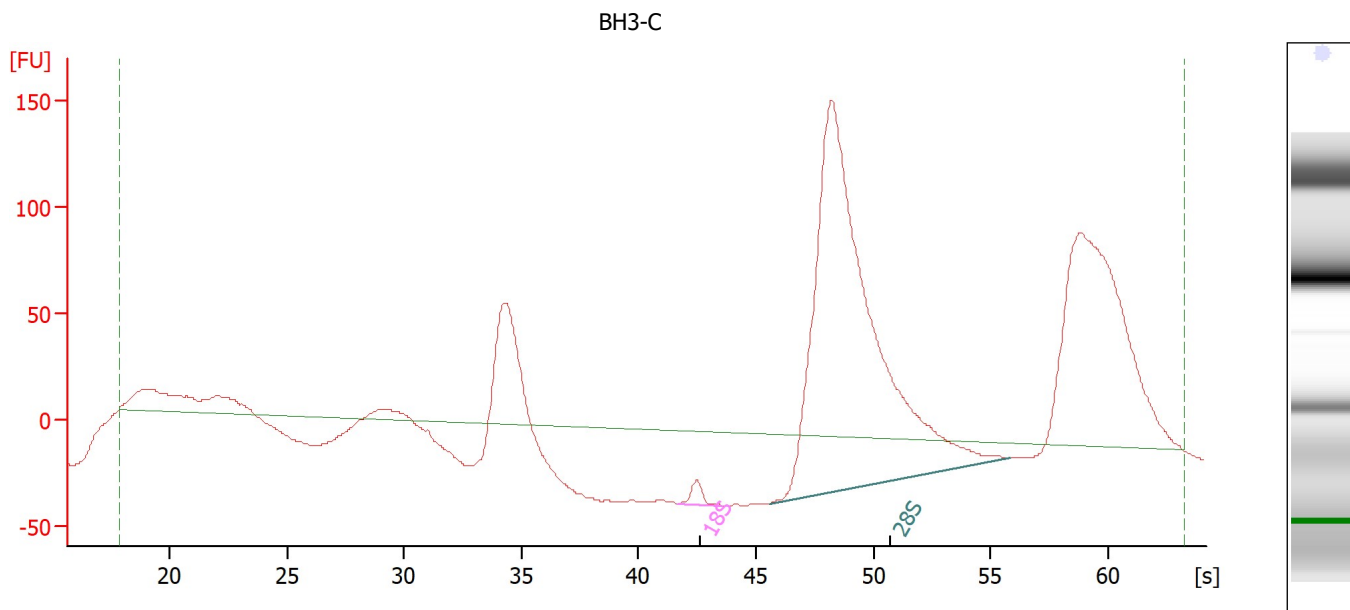
**Fragment table for sample 10 : AH2-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	38.24	39.89	1.1	4.2

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : BH3-C**

RNA Area:	1,536.3	RNA Integrity Number (RIN):	5.8 (B.02.10, Anomaly Threshold(s) manually adapted)
RNA Concentration:	10,783 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]:	70.4	Result Flagging Label:	RIN: 5.80

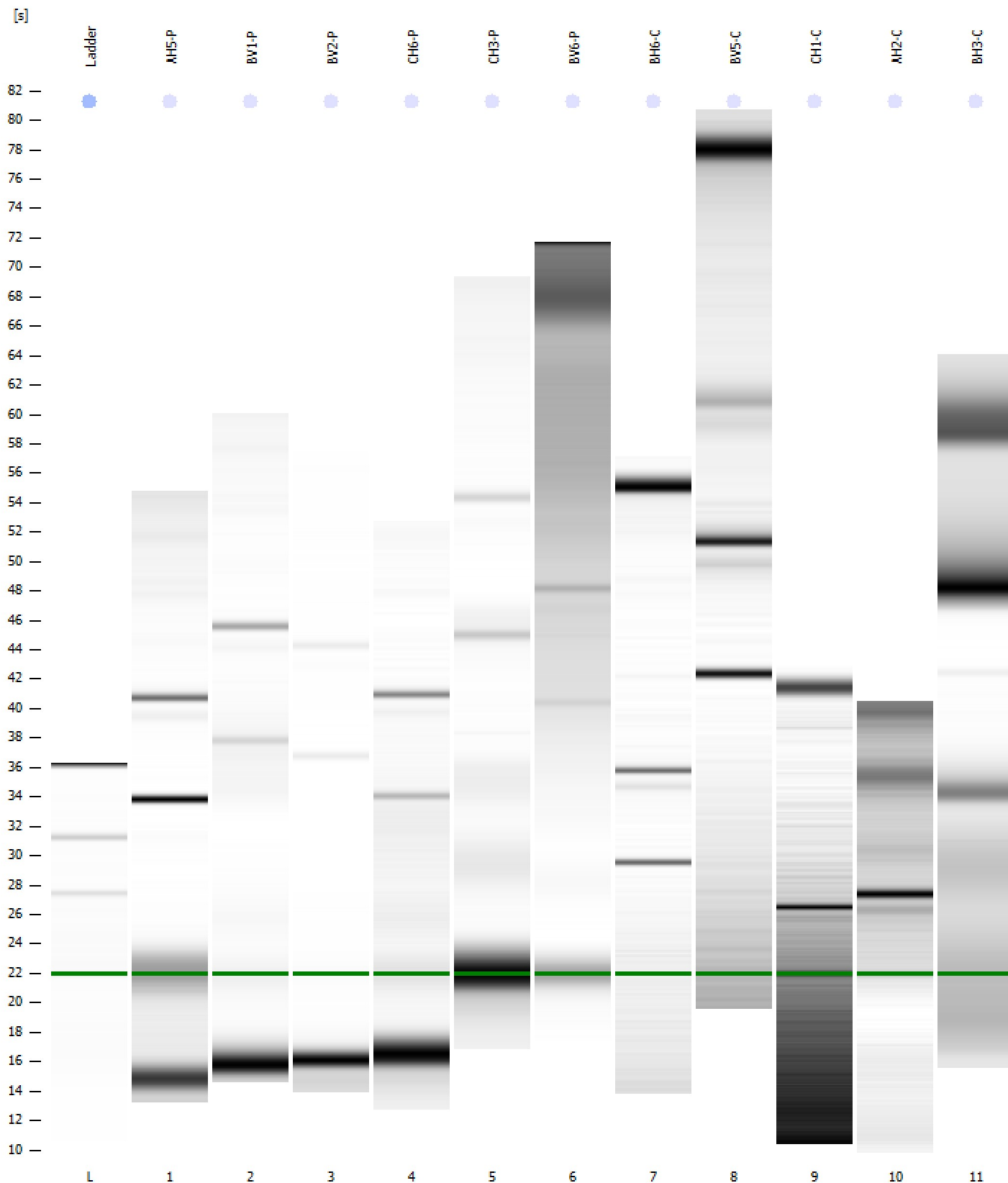
**Fragment table for sample 11 : BH3-C**

Name	Start Time [s]	End Time [s]	Area	% of total Area
18S	41.66	43.59	14.6	0.9
28S	45.56	55.83	1,027.6	66.9

Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 AM

**Gel Image**

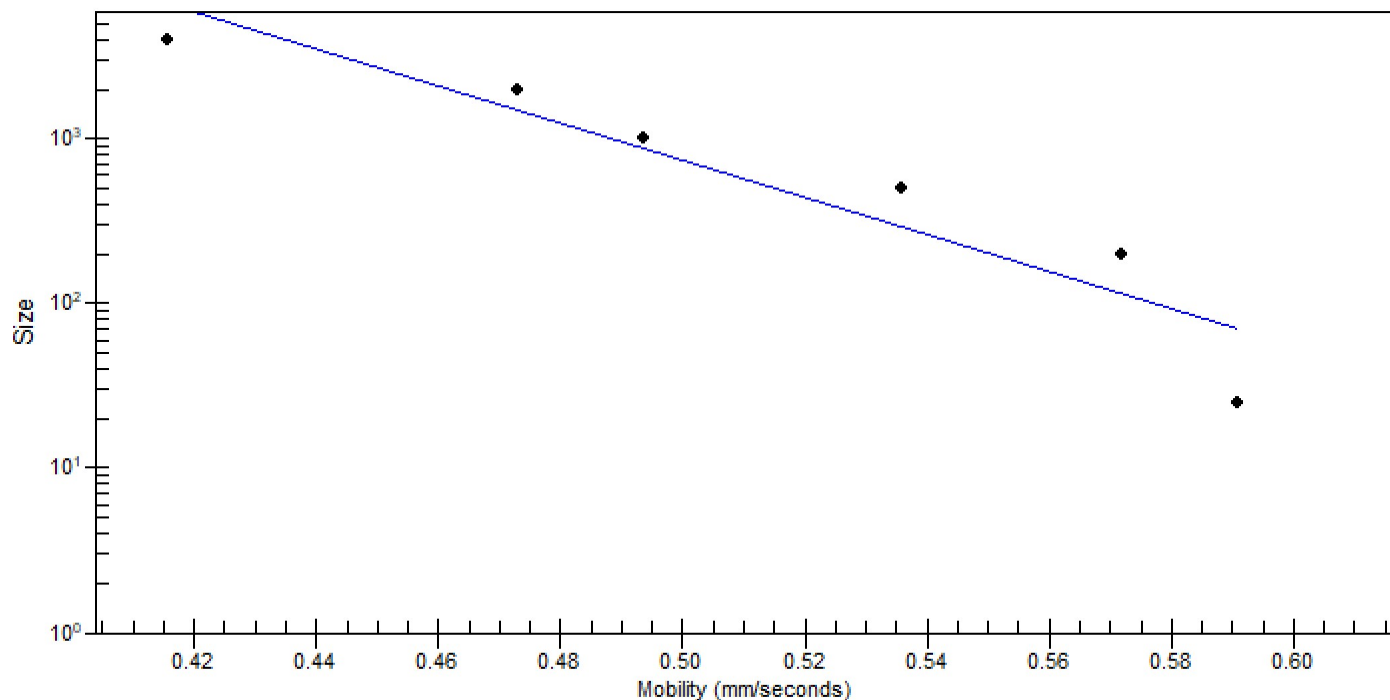


Assay Class: Eukaryote Total RNA Pico  
Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
Modified: 12/9/2019 10:41:06 AM

**Curves**

**Standard Curve**





Assay Class: Eukaryote Total RNA Pico  
 Data Path: Z:\...09\Bioanalyzer1\_Eukaryote Total RNA Pico\_2019-12-09\_001.xad

Created: 12/9/2019 9:25:58 AM  
 Modified: 12/9/2019 10:41:06 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		12/9/2019 9:48:55 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2019-12-09\Bioanalyze r1_Eukaryote Total RNA Pico_2019-12-09_001.xad)		Instrument	Run		12/9/2019 9:26:04 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		12/9/2019 9:26:04 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		12/9/2019 9:26:04 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		12/9/2019 9:26:04 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		12/9/2019 9:26:04 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		12/9/2019 9:26:04 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		12/9/2019 9:26:04 AM	(GMT --08:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB