

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

Created: 8/21/2019 10:34:47 AM  
Modified: 8/21/2019 10:56:44 AM

**Electrophoresis File Run Summary**

Instrument Information:

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

Assay Information:

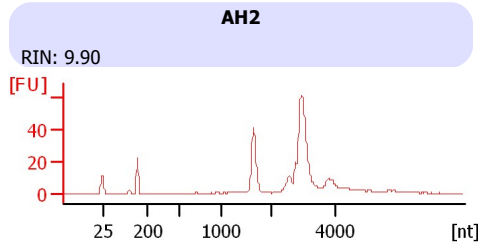
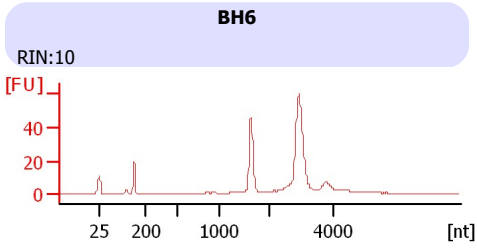
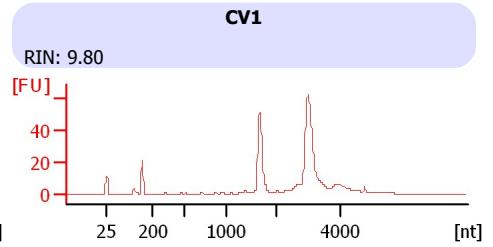
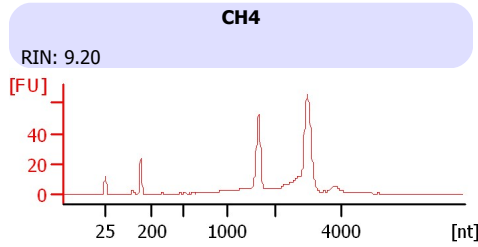
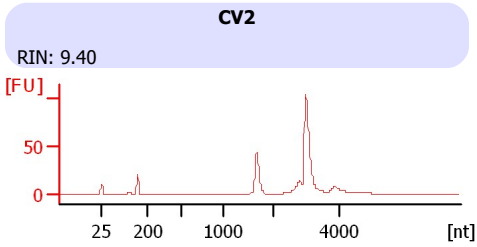
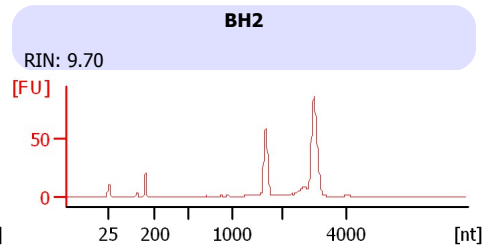
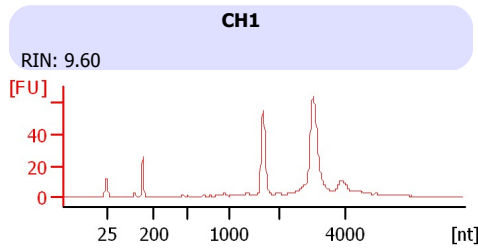
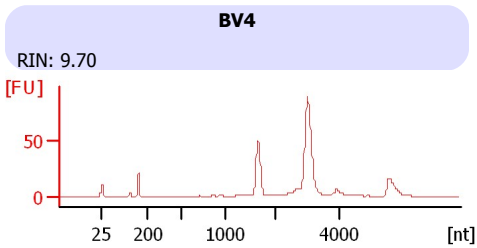
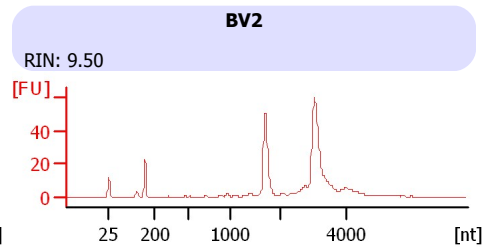
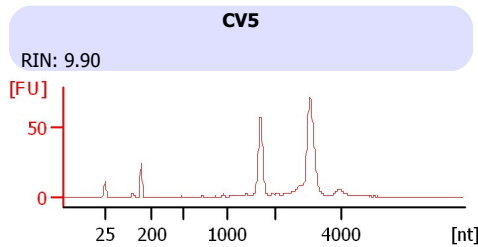
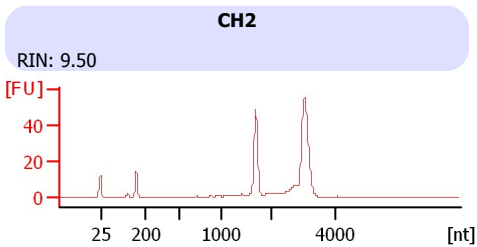
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

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:



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

Sample Name	Sample Comment	Status	Result Label	Result Color
CH2		✓	RIN: 9.50	
CV5		✓	RIN: 9.90	
BV2		✓	RIN: 9.50	
BV4		✓	RIN: 9.70	
CH1		✓	RIN: 9.60	
BH2		✓	RIN: 9.70	
CV2		✓	RIN: 9.40	
CH4		✓	RIN: 9.20	
CV1		✓	RIN: 9.80	
BH6		✓	RIN:10	
AH2		✓	RIN: 9.90	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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## 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

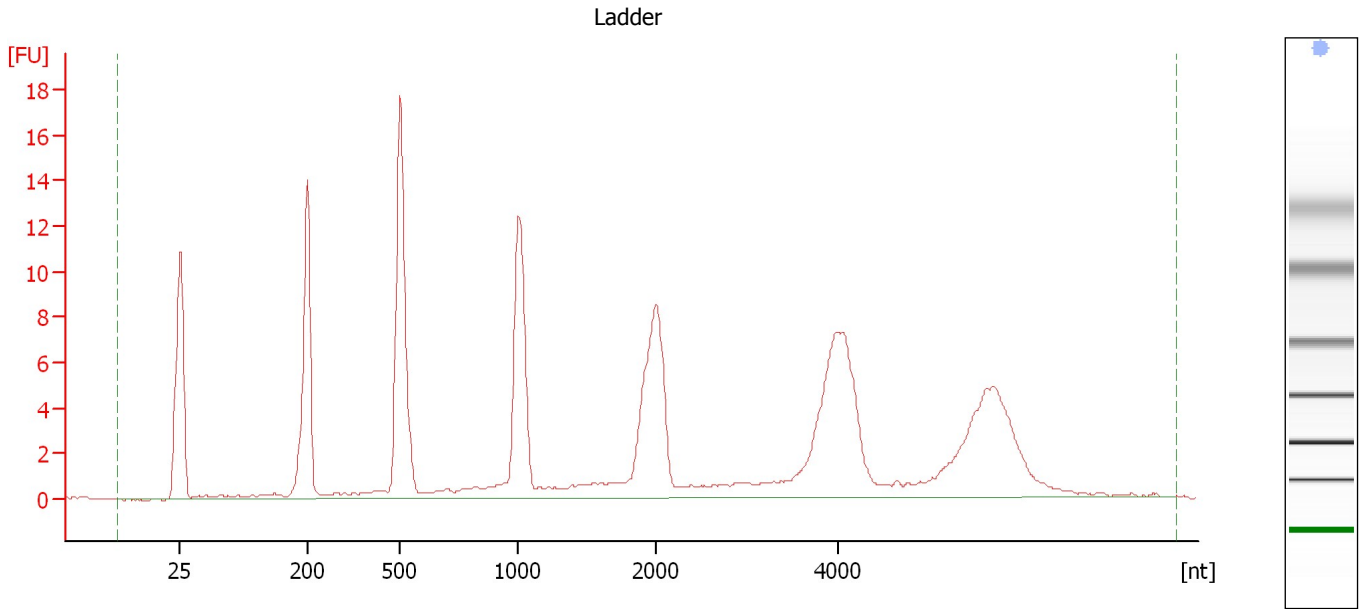
### Ladder

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

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**Electropherogram Summary**



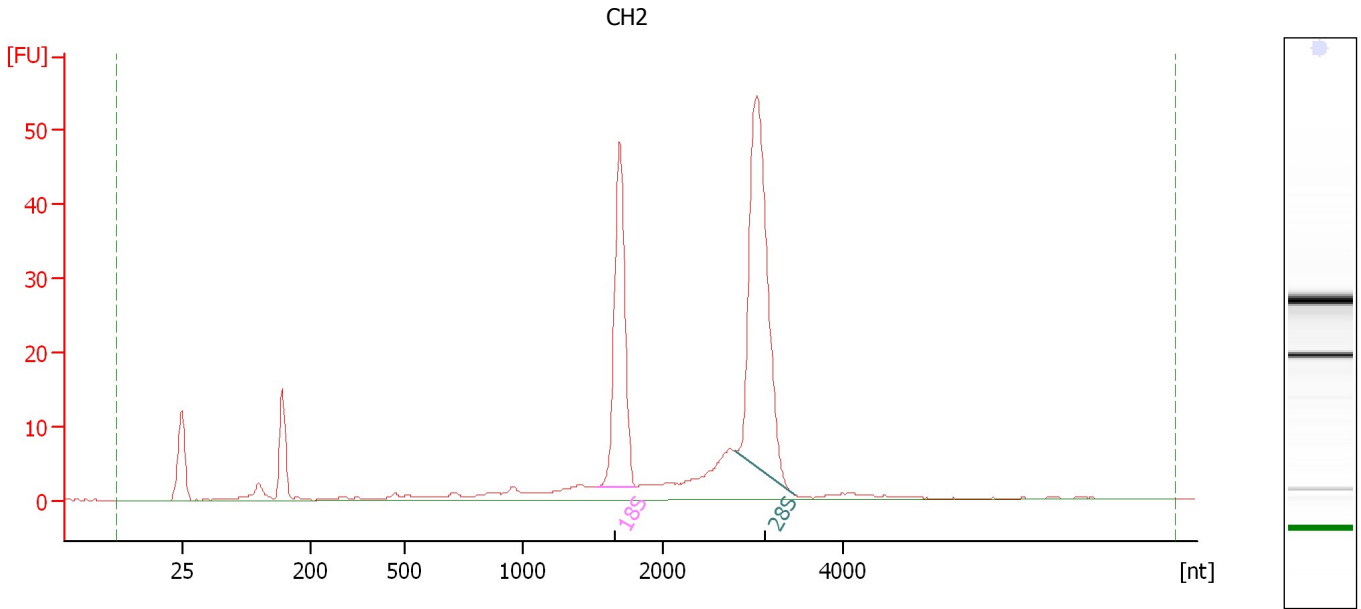
**Overall Results for Ladder**

RNA Area:	161.4	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

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : CH2**

RNA Area:	273.9	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	1,697 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: 9.50

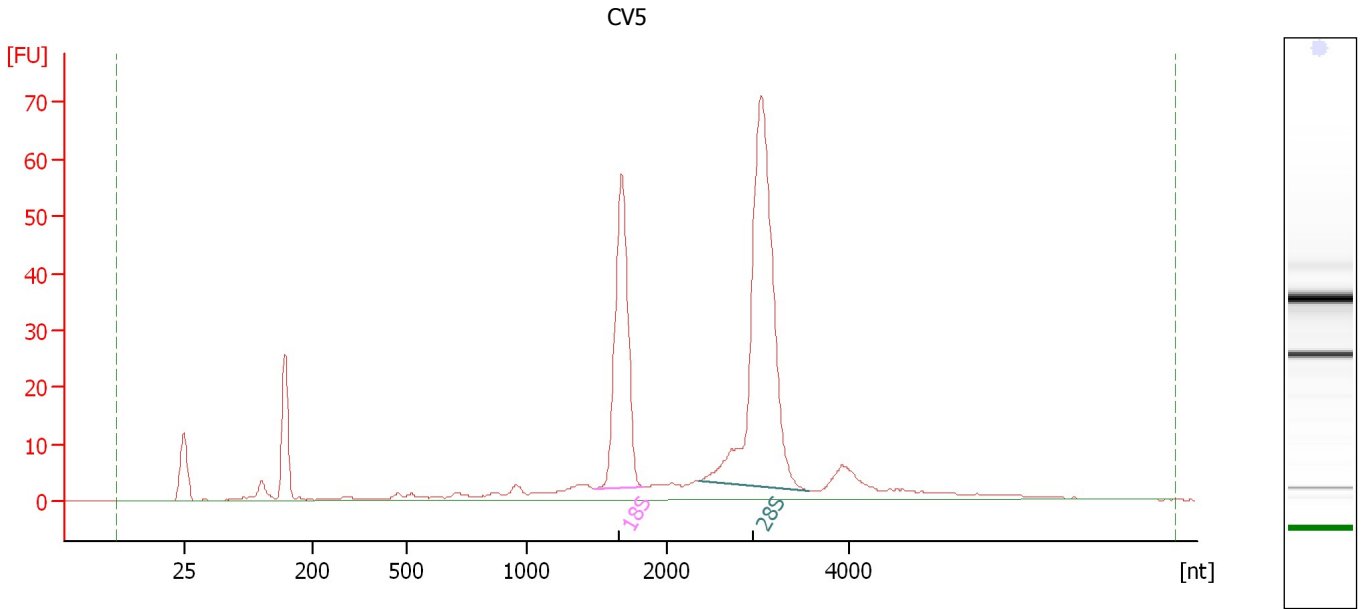
**Fragment table for sample 1 : CH2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,538	1,807	61.1	22.3
28S	2,811	3,457	98.9	36.1

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : CV5**

RNA Area:	417.6	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	2,588 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: 9.90

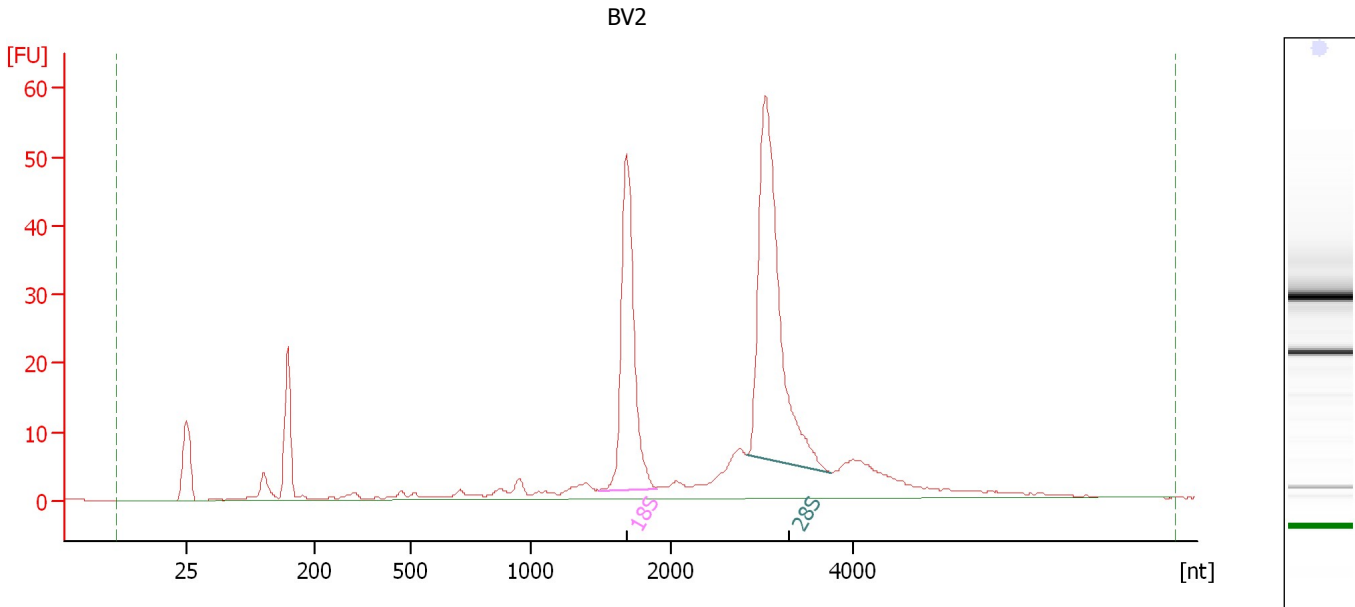
**Fragment table for sample 2 : CV5**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,486	1,831	87.4	20.9
28S	2,351	3,568	164.1	39.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : BV2**

RNA Area:	371.8	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	2,304 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: 9.50

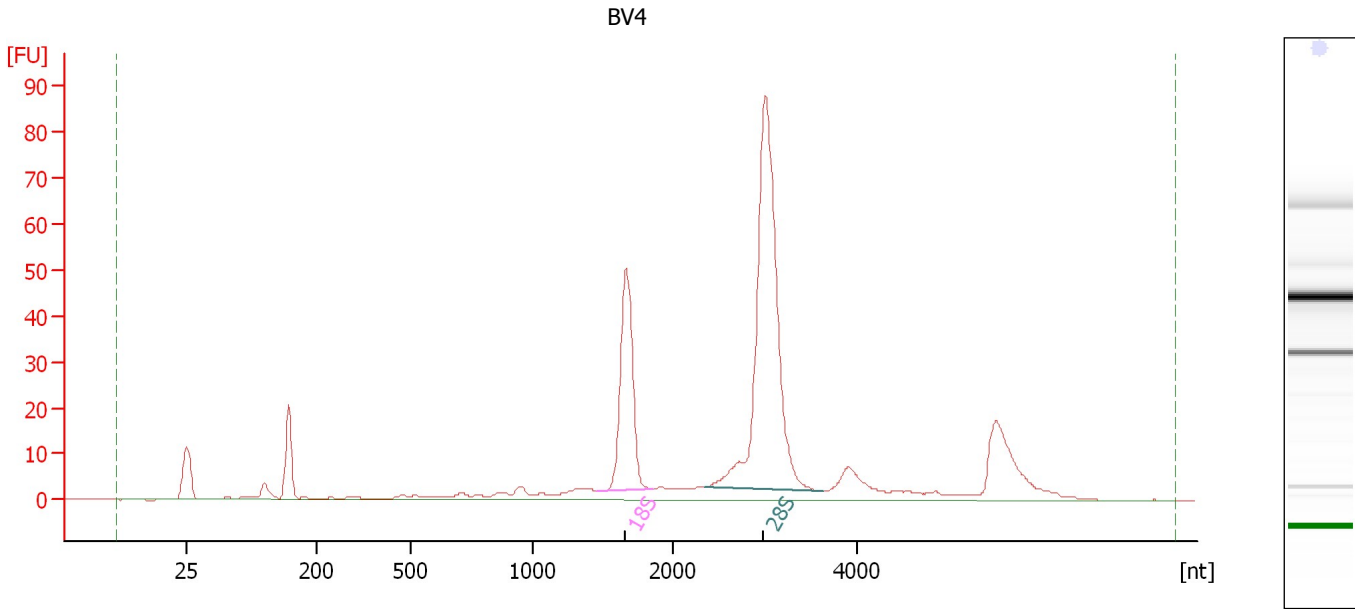
**Fragment table for sample 3 : BV2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,488	1,901	75.7	20.4
28S	2,839	3,748	117.9	31.7

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : BV4**

RNA Area: 467.6                      RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 2,897 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.6                      Result Flagging Label: RIN: 9.70

**Fragment table for sample 4 : BV4**

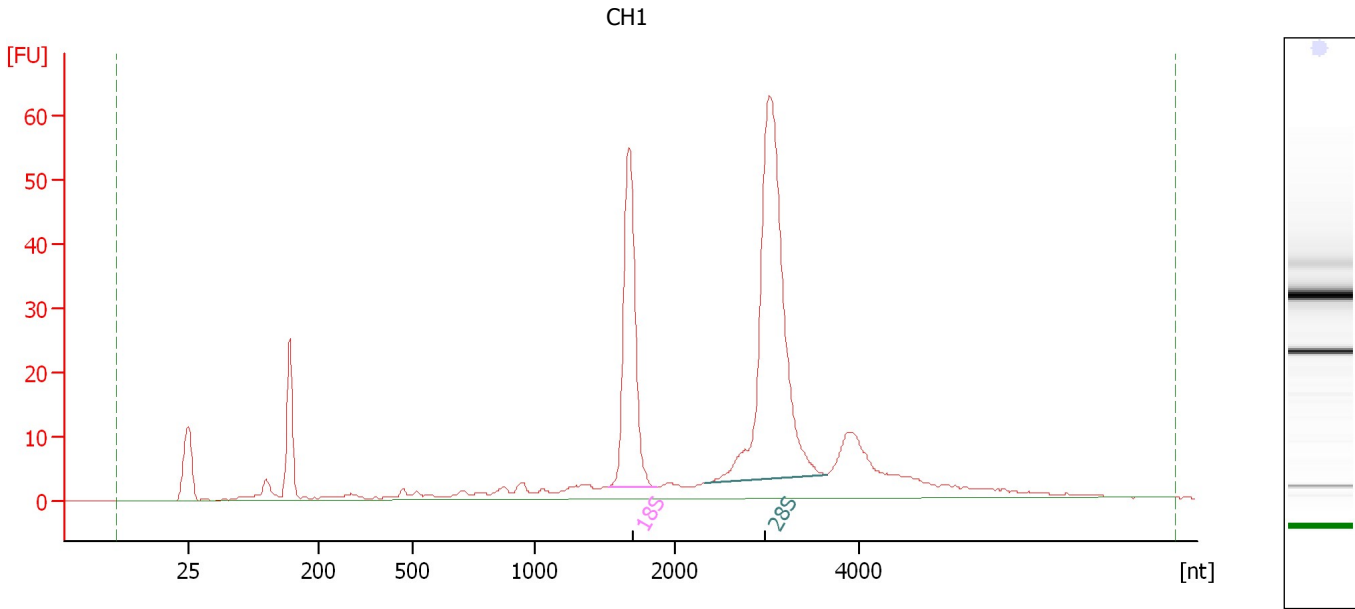
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,459	1,863	73.2	15.7
28S	2,349	3,628	186.7	39.9



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : CH1**

RNA Area:	413.6	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	2,563 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]:	2.0	Result Flagging Label:	RIN: 9.60

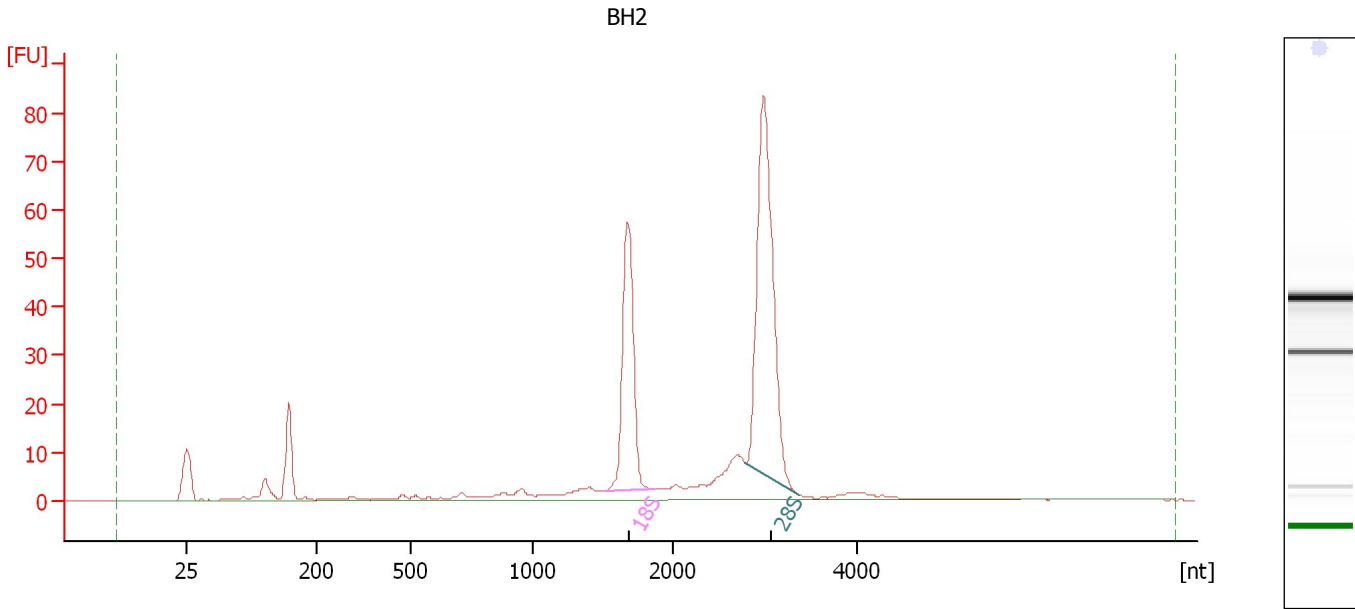
**Fragment table for sample 5 : CH1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,529	1,871	75.3	18.2
28S	2,336	3,647	150.7	36.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : BH2**

RNA Area:	361.3	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	2,239 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]:	1.8	Result Flagging Label:	RIN: 9.70

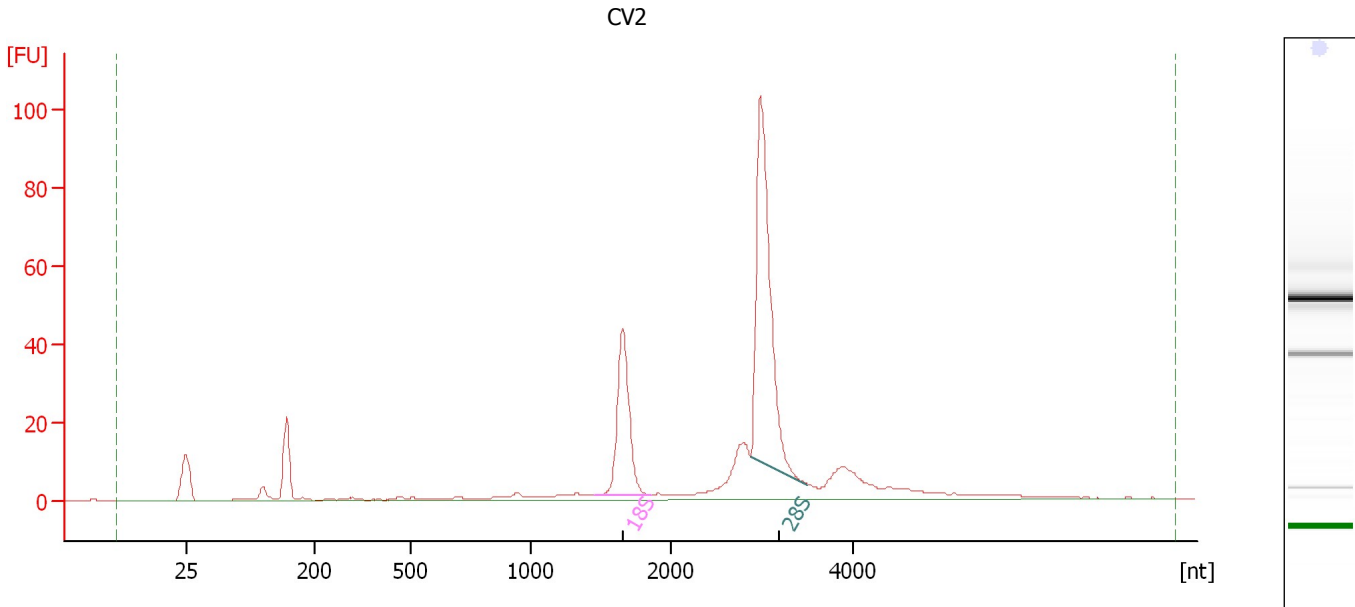
**Fragment table for sample 6 : BH2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,512	1,870	75.0	20.8
28S	2,791	3,372	133.9	37.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : CV2**

RNA Area:	394.8	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	2,446 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]:	2.2	Result Flagging Label:	RIN: 9.40

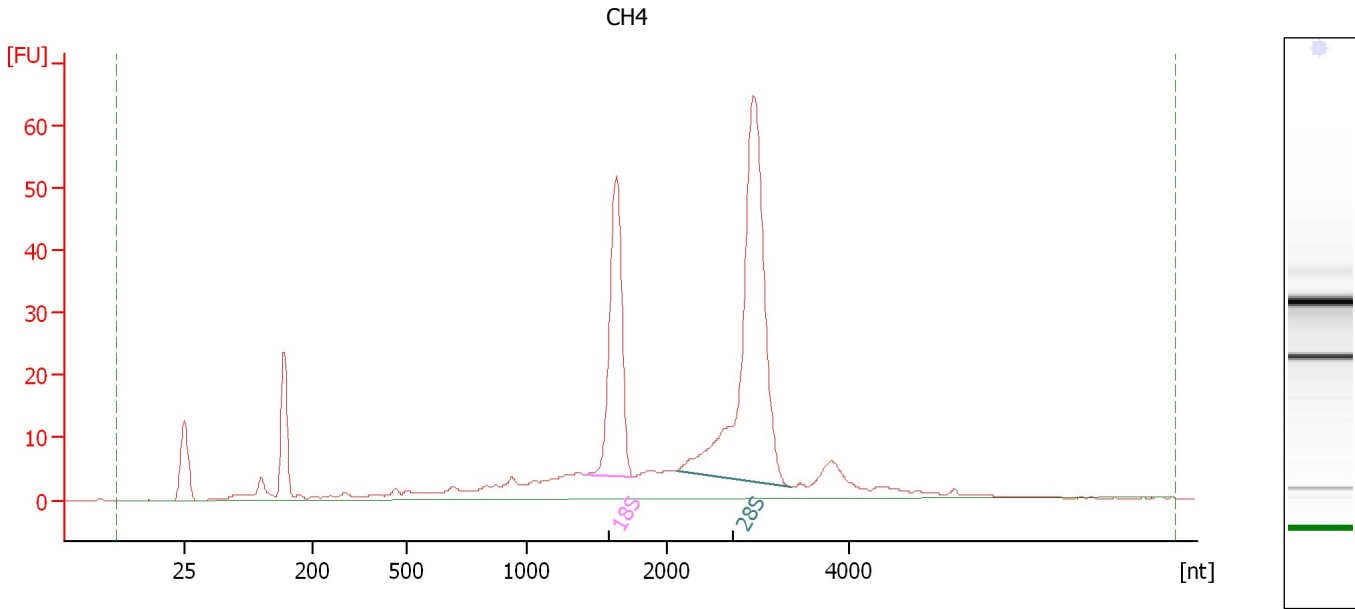
**Fragment table for sample 7 : CV2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,458	1,855	63.6	16.1
28S	2,874	3,491	138.7	35.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : CH4**

RNA Area:	432.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	2,682 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]:	2.1	Result Flagging Label:	RIN: 9.20

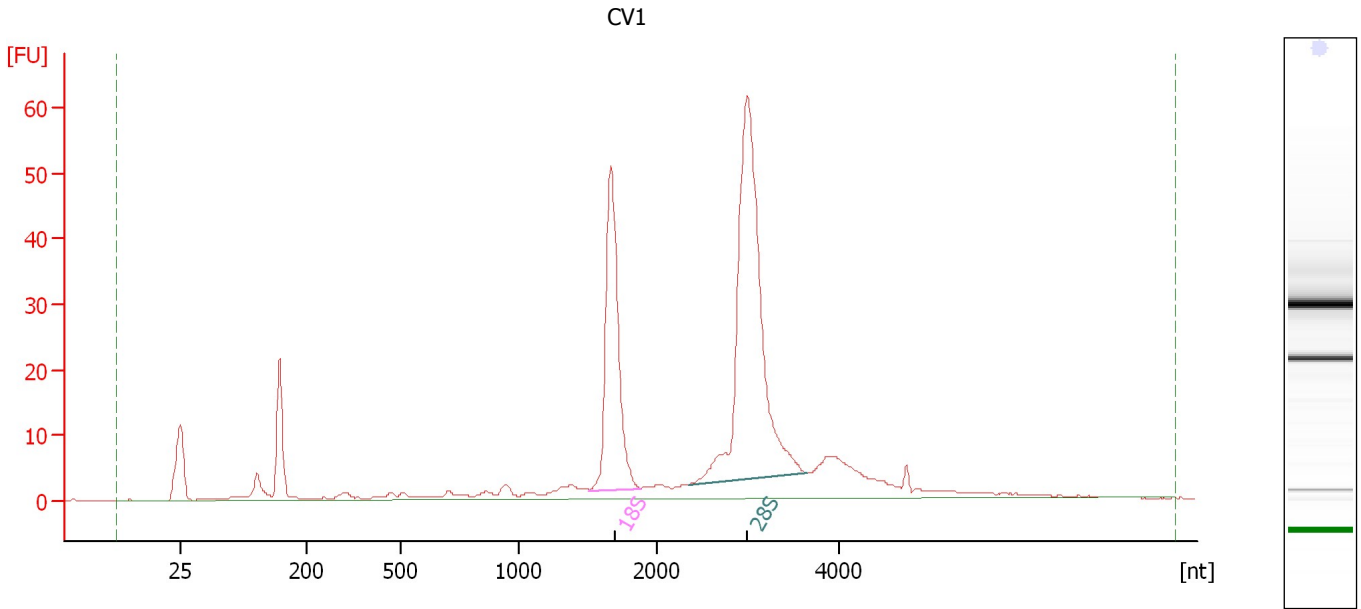
**Fragment table for sample 8 : CH4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,409	1,762	74.0	17.1
28S	2,117	3,369	153.7	35.5

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

Created: 8/21/2019 10:34:47 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : CV1**

RNA Area:	385.1	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	2,386 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: 9.80

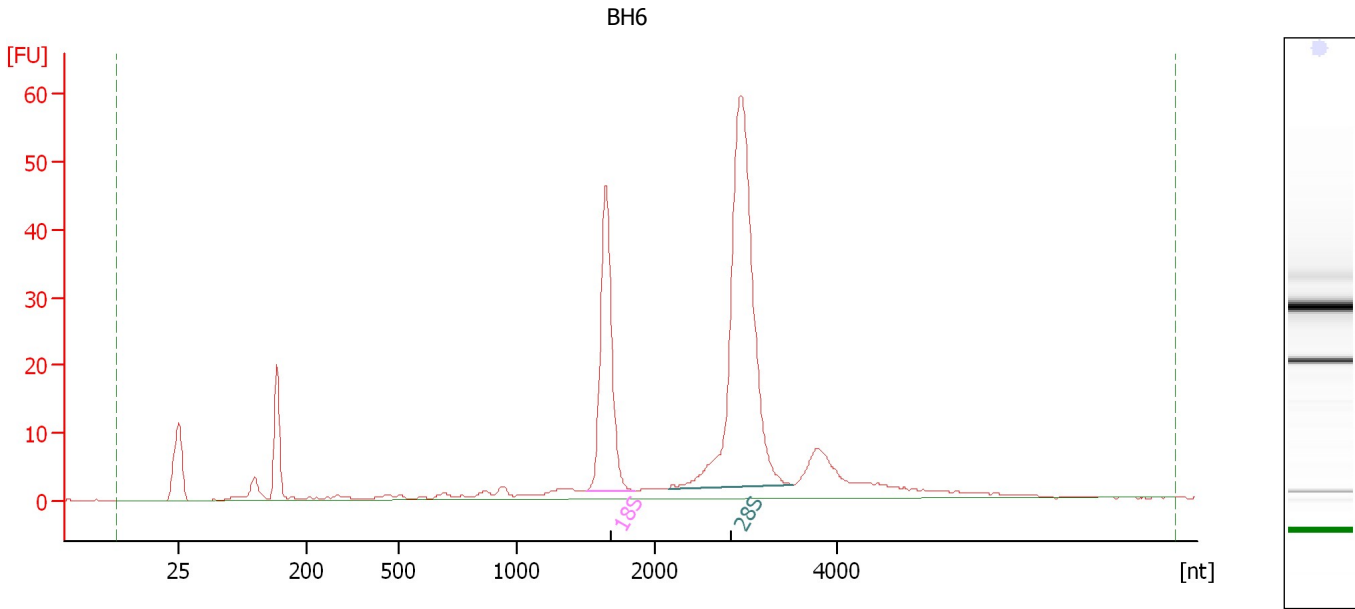
**Fragment table for sample 9 : CV1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,505	1,884	77.5	20.1
28S	2,354	3,653	147.1	38.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-21\2019-08-21\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : BH6**

RNA Area:	340.4	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	2,109 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]:	2.2	Result Flagging Label:	RIN:10

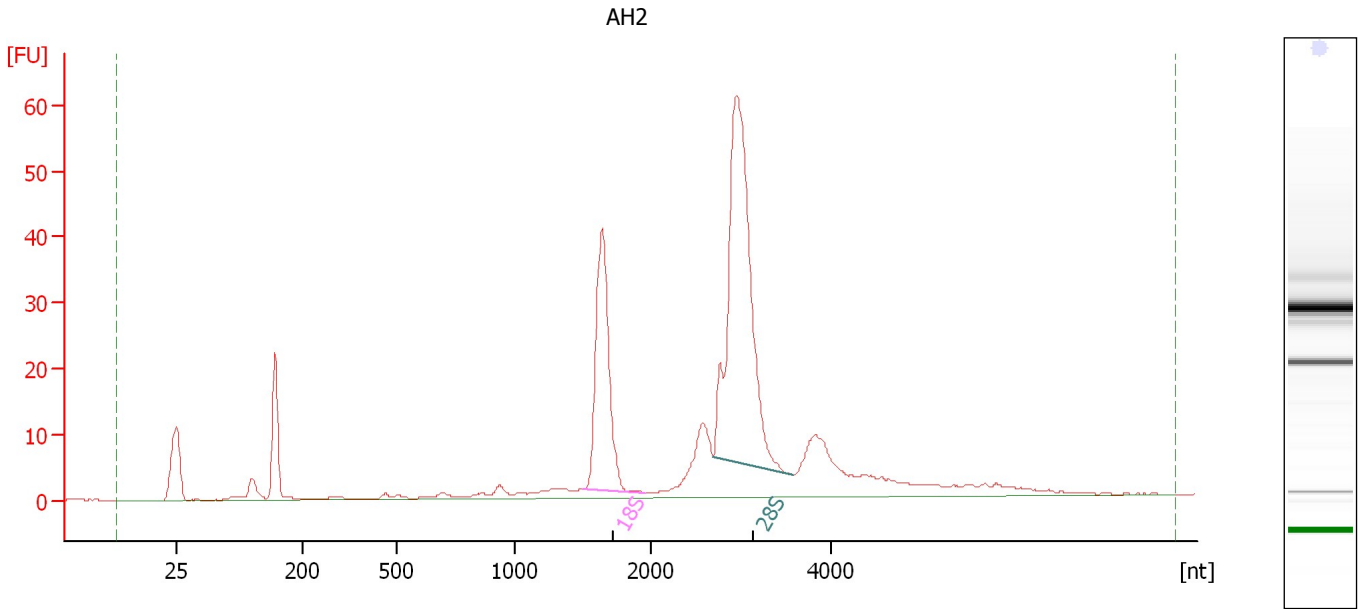
**Fragment table for sample 10 : BH6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,496	1,852	65.5	19.2
28S	2,142	3,514	143.6	42.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : AH2**

RNA Area:	397.0	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	2,460 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]:	2.1	Result Flagging Label:	RIN: 9.90

**Fragment table for sample 11 : AH2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,501	1,953	66.1	16.6
28S	2,689	3,569	139.6	35.2

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**Gel Image**



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### 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 10:56:43 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_002.xad)		Instrument	Run		8/21/2019 10:34:47 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/21/2019 10:34:47 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/21/2019 10:34:47 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/21/2019 10:34:47 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/21/2019 10:34:47 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/21/2019 10:34:47 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/21/2019 10:34:47 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1