

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29\_003.xad

Created: 3/29/2016 12:24:45 PM  
Modified: 3/29/2016 12:55:52 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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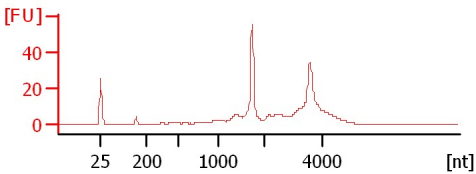
Chip Information:

Chip Lot #:

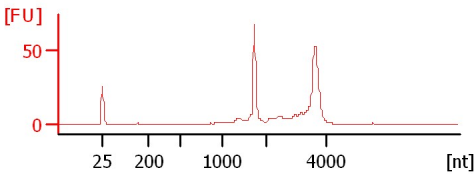
Reagent Kit Lot #:

Chip Comments:

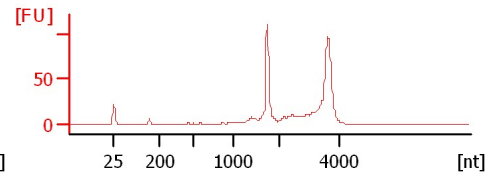
**GC CD4 (1:7)**  
HiSeq\_453  
RIN: 8.70



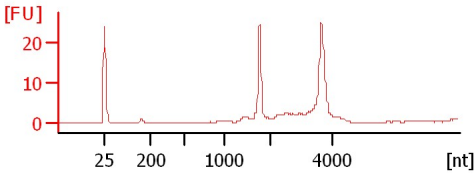
**GS CD8 (1:3)**  
HiSeq\_453  
RIN: 9.40



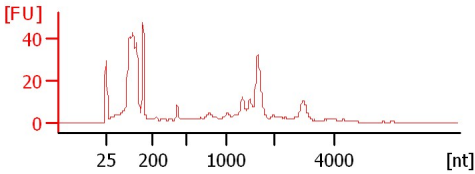
**4G (1:10)**  
HiSeq\_453  
RIN: 9.20



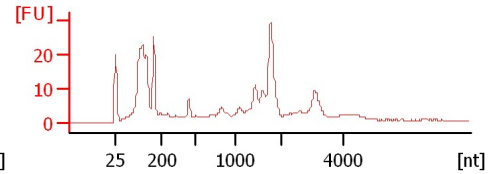
**5S (1:2)**  
HiSeq\_453  
RIN: 9.60



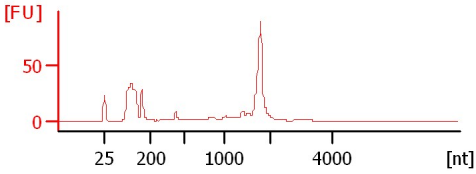
**RS72**  
HiSeq\_456  
RIN N/A



**R7 R9**  
HiSeq\_456  
RIN N/A



**GV**  
HiSeq\_456  
RIN N/A



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

Sample Name	Sample Comment	Status	Result Label	Result Color
GC CD4 (1:7)	HiSeq_453	✓	RIN: 8.70	
GS CD8 (1:3)	HiSeq_453	✓	RIN: 9.40	
4G (1:10)	HiSeq_453	✓	RIN: 9.20	
5S (1:2)	HiSeq_453	✓	RIN: 9.60	
RS72	HiSeq_456	✓	RIN N/A	
R7 R9	HiSeq_456	✓	RIN N/A	
GV	HiSeq_456	✓	RIN N/A	
Sample 8				
Sample 9				
Sample 10				
Sample 11				
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

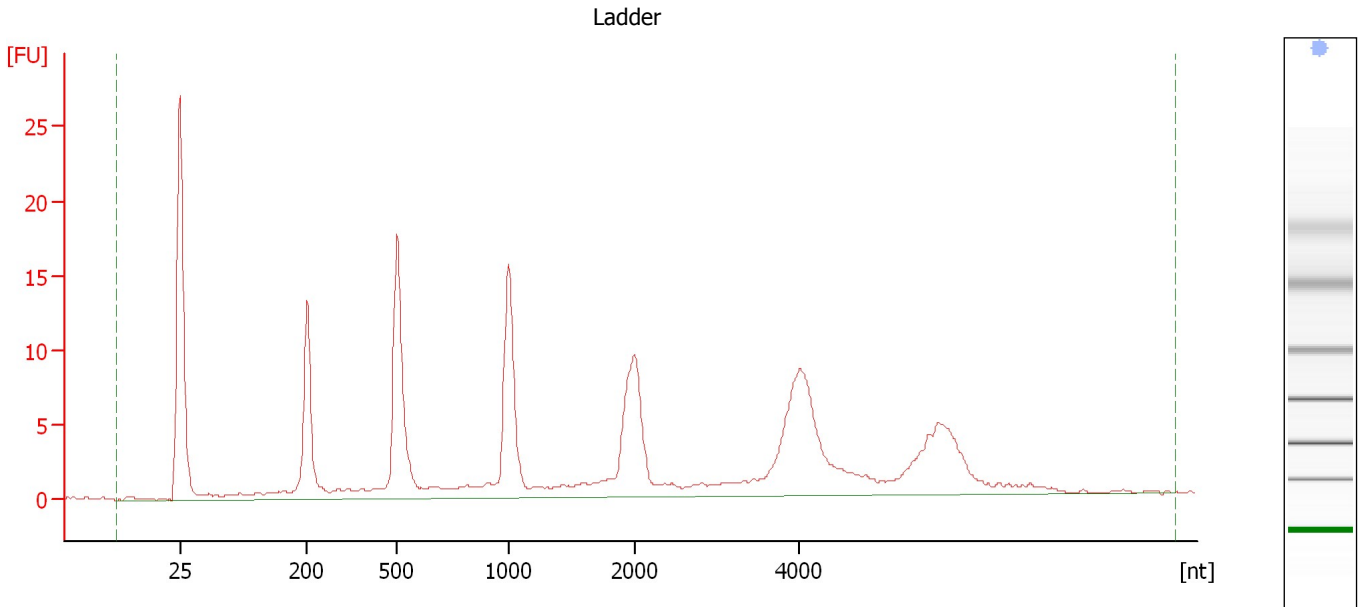
### Ladder

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

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**Electropherogram Summary**



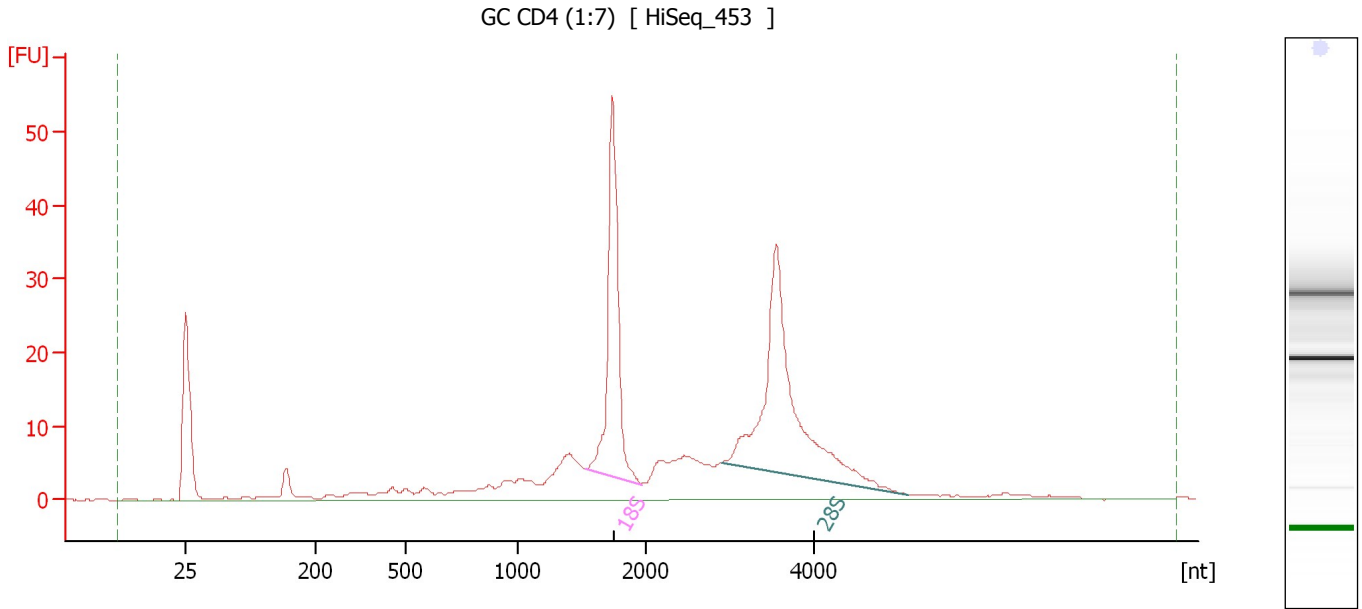
**Overall Results for Ladder**

RNA Area:	186.3	Result Flagging Color:	<span style="background-color: blue; 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 : GC CD4 (1:7)**

RNA Area: 342.0                      RNA Integrity Number (RIN): 8.7 (B.02.08)  
RNA Concentration: 1,836 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.4                      Result Flagging Label: RIN: 8.70

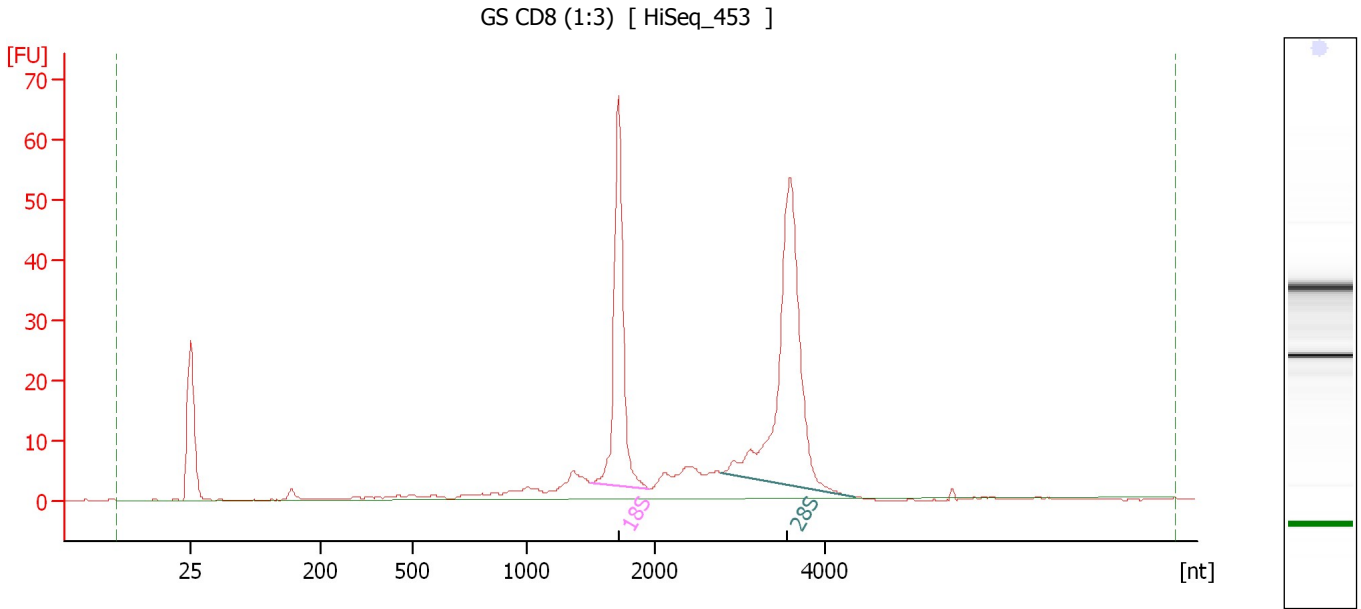
**Fragment table for sample 1 : GC CD4 (1:7)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,532	1,968	65.6	19.2
28S	2,922	5,129	93.0	27.2

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : GS CD8 (1:3)**

RNA Area: 297.2                      RNA Integrity Number (RIN): 9.4 (B.02.08)  
RNA Concentration: 1,595 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN: 9.40

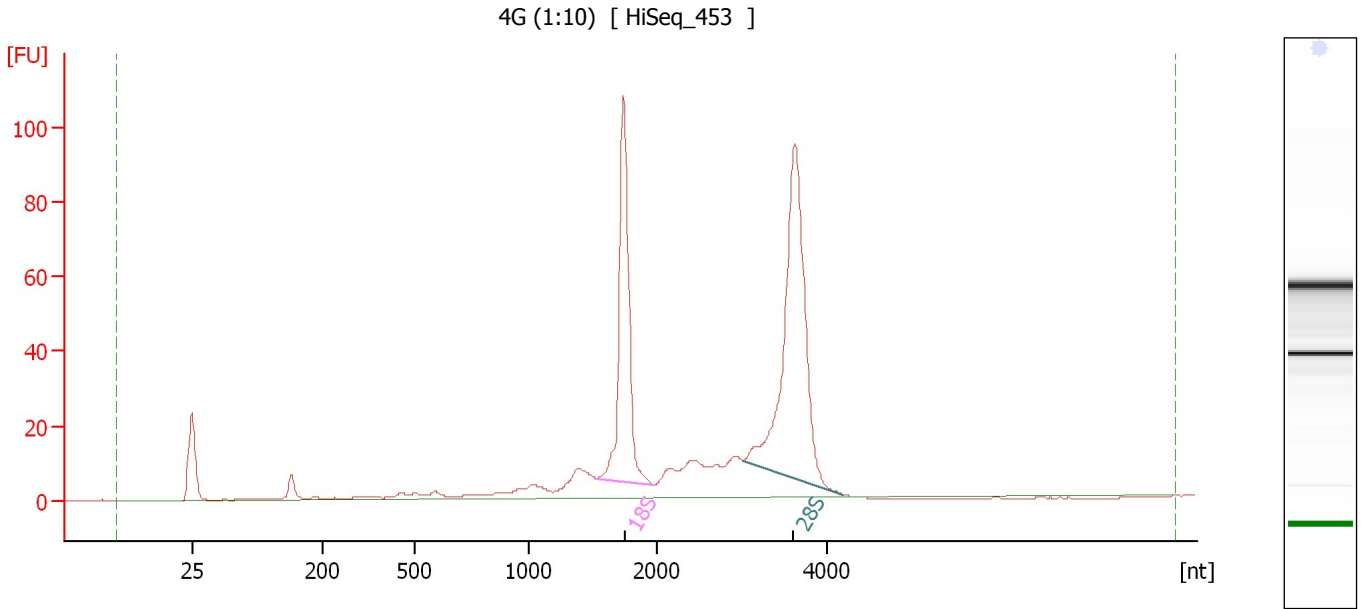
**Fragment table for sample 2 : GS CD8 (1:3)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,507	1,954	72.7	24.5
28S	2,776	4,354	116.4	39.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 4G (1:10)**

RNA Area: 542.8                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 2,914 pg/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.5                      Result Flagging Label: RIN: 9.20

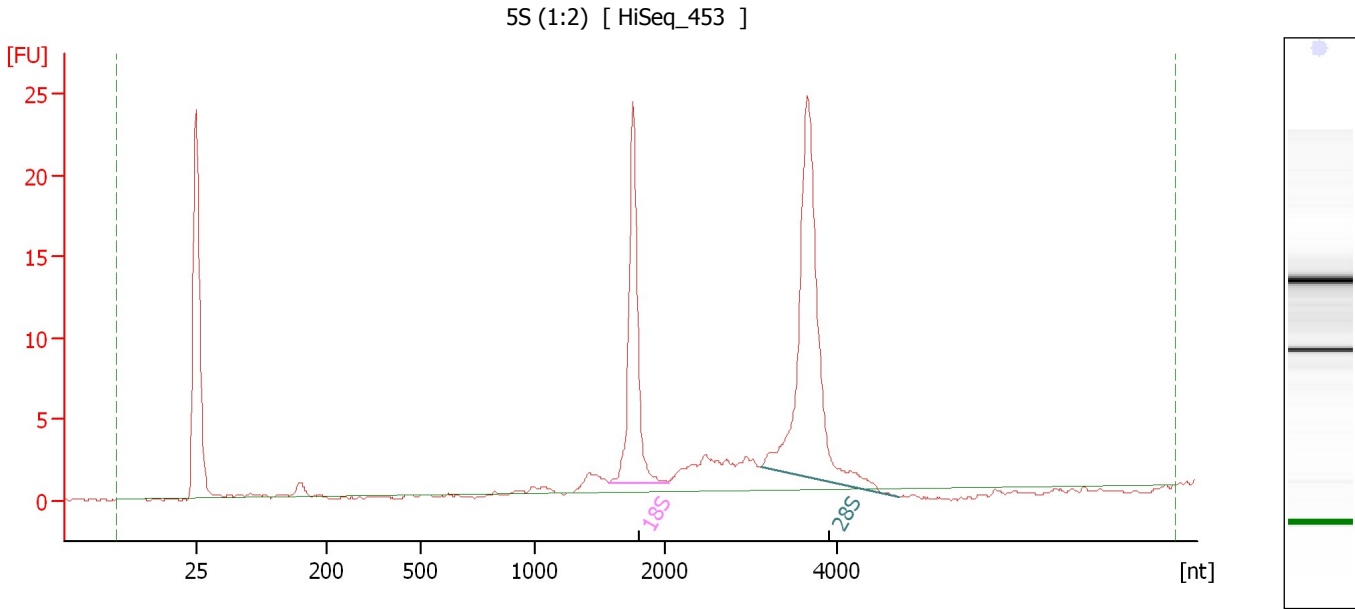
**Fragment table for sample 3 : 4G (1:10)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,533	1,971	126.8	23.4
28S	3,014	4,198	196.2	36.1

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 5S (1:2)**

RNA Area: 105.3                      RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 565 pg/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 9.60

**Fragment table for sample 4 : 5S (1:2)**

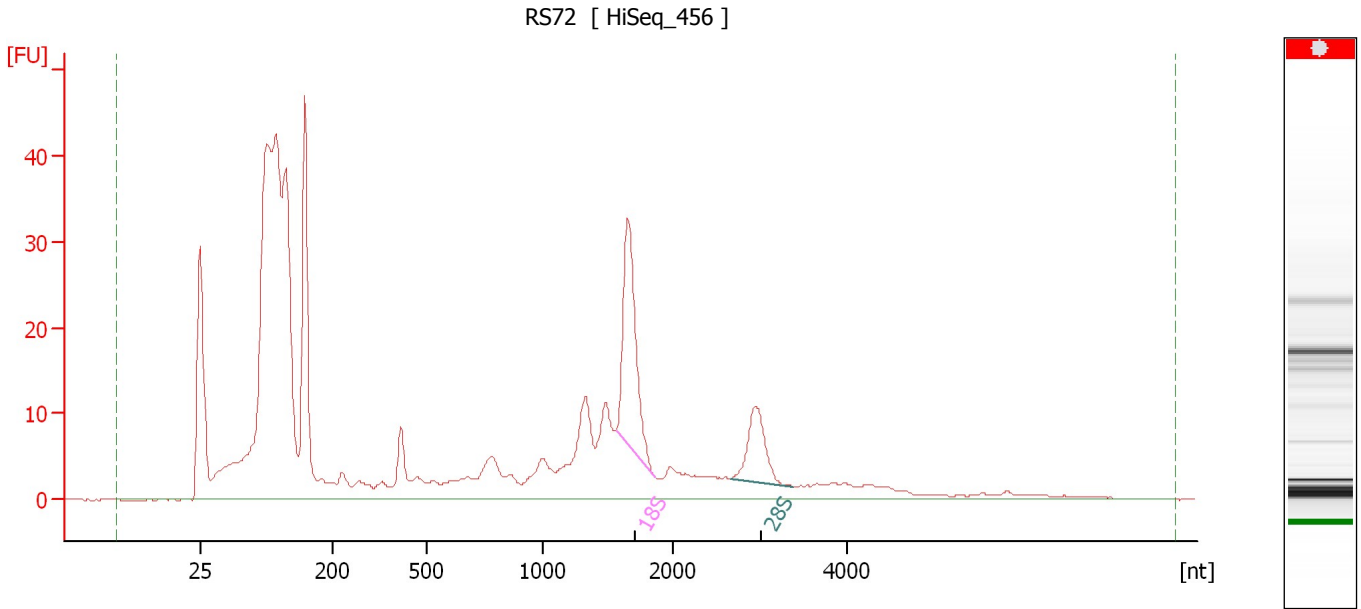
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	2,034	25.3	24.0
28S	3,108	4,731	46.5	44.2



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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : RS72**

RNA Area:	576.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3,094 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN N/A

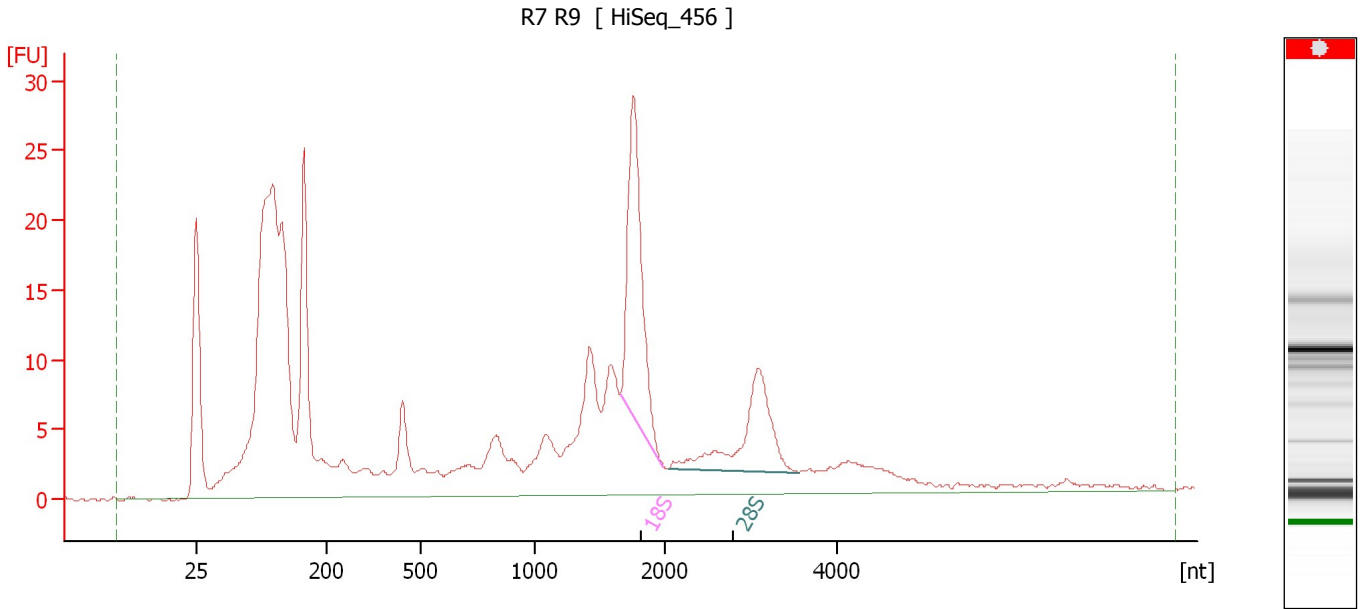
**Fragment table for sample 5 : RS72**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,561	1,853	40.8	7.1
28S	2,656	3,386	16.7	2.9

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-29\2016-03-29\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : R7 R9**

RNA Area:	425.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,285 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN N/A

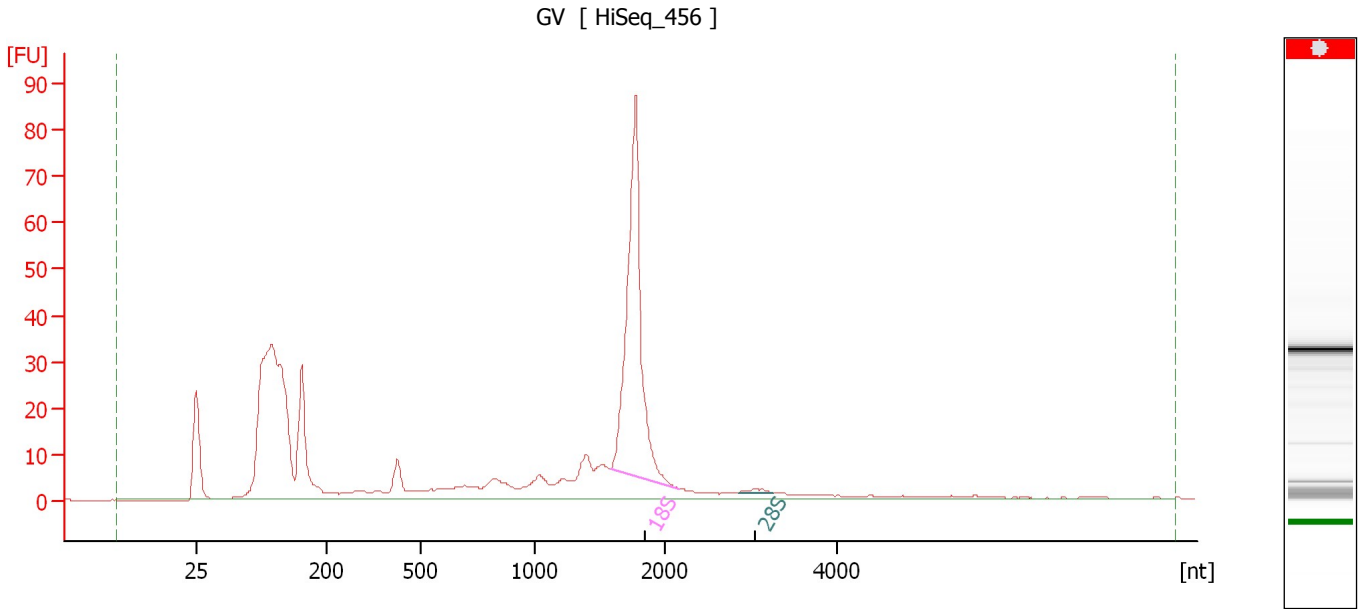
**Fragment table for sample 6 : R7 R9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	1,981	39.3	9.2
28S	2,034	3,558	23.9	5.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : GV**

RNA Area:	534.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	2,872 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 7 : GV**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	2,147	136.6	25.5
28S	2,859	3,258	1.1	0.2

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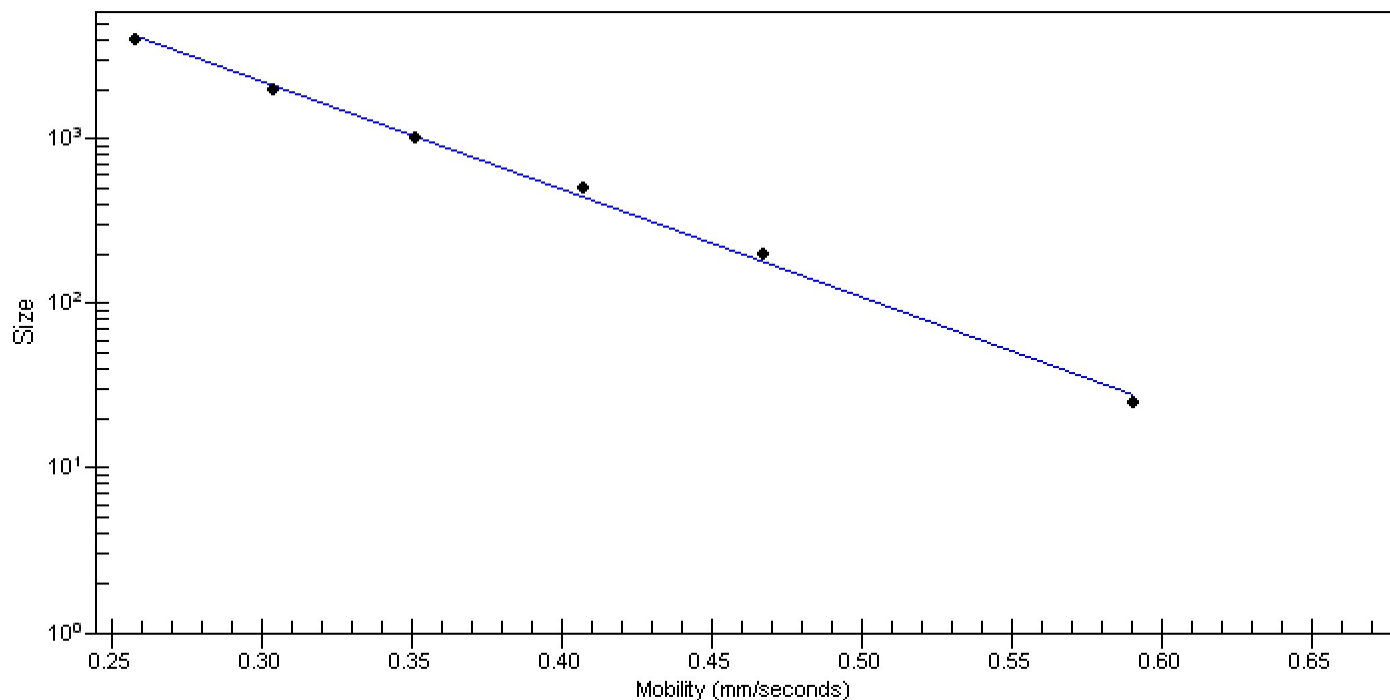
**Gel Image**

Assay Class: Eukaryote Total RNA Pico  
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**Curves**

**Standard Curve**



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**Invalid Samples**

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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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: 8)		Instrument	Run		3/29/2016 12:41:54 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\2016-03-29\2016-03-29_003.xad)		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1