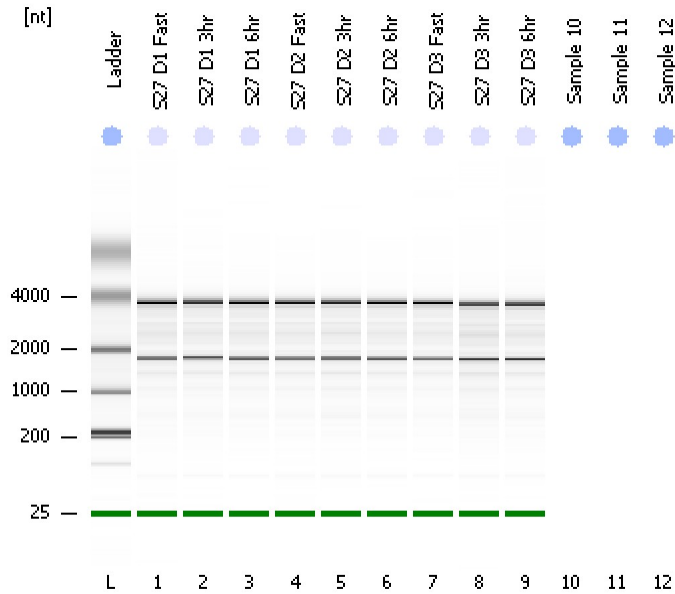


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

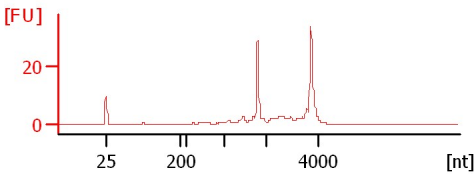
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy  
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

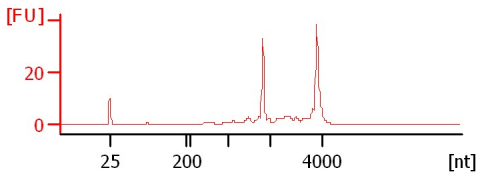
Chip Information:

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

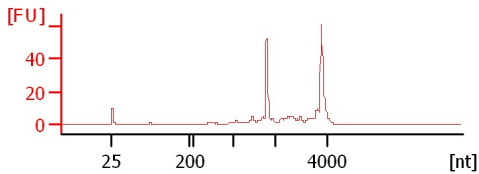
**S27 D1 Fast**  
RIN: 8.90



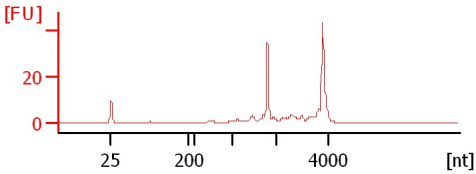
**S27 D1 3hr**  
RIN: 8.80



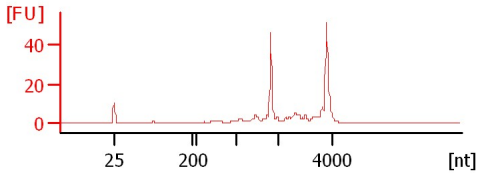
**S27 D1 6hr**  
RIN: 8.80



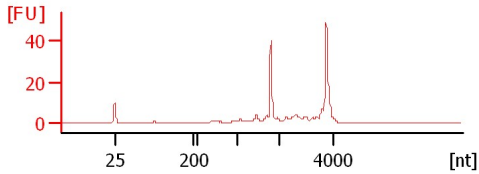
**S27 D2 Fast**  
RIN: 8.60



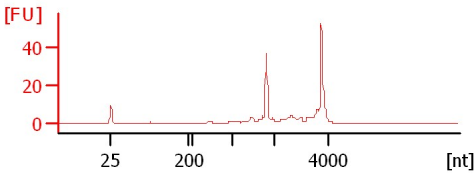
**S27 D2 3hr**  
RIN: 8.60



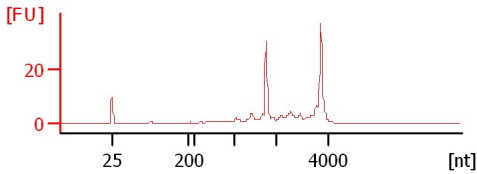
**S27 D2 6hr**  
RIN: 8.60



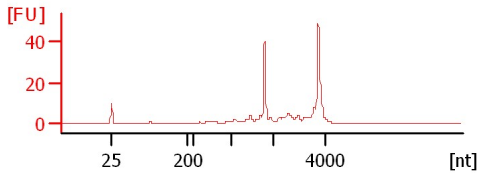
**S27 D3 Fast**  
RIN: 9



**S27 D3 3hr**  
RIN: 8.20



**S27 D3 6hr**  
RIN: 8.50



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
S27 D1 Fast		✓	RIN: 8.90	
S27 D1 3hr		✓	RIN: 8.80	
S27 D1 6hr		✓	RIN: 8.80	
S27 D2 Fast		✓	RIN: 8.60	
S27 D2 3hr		✓	RIN: 8.60	
S27 D2 6hr		✓	RIN: 8.60	
S27 D3 Fast		✓	RIN:9	
S27 D3 3hr		✓	RIN: 8.20	
S27 D3 6hr		✓	RIN: 8.50	
Sample 10				
Sample 11				
Sample 12				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 19  
End Analysis Time Range [s] : 69  
Ladder Concentration [ng/μl] : 150  
Lower Marker Concentration [ng/μl] : 0  
Upper Marker Concentration [ng/μl] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 19  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.5  
Baseline Plateau [s] : 6

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

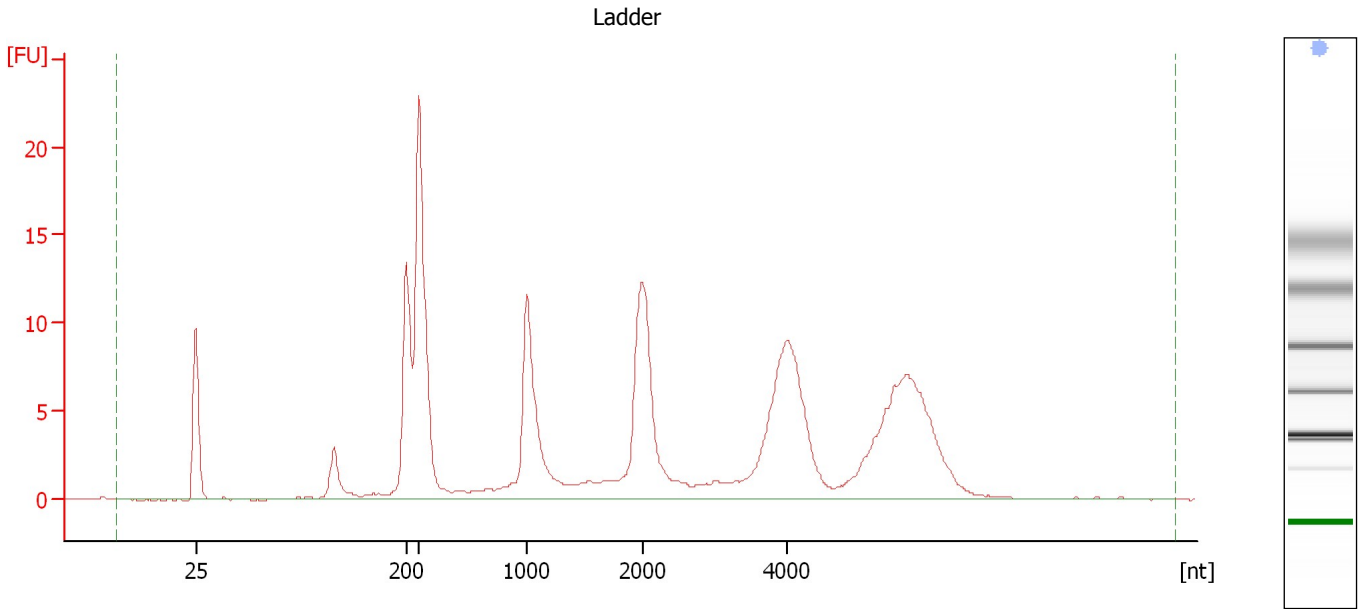
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary**



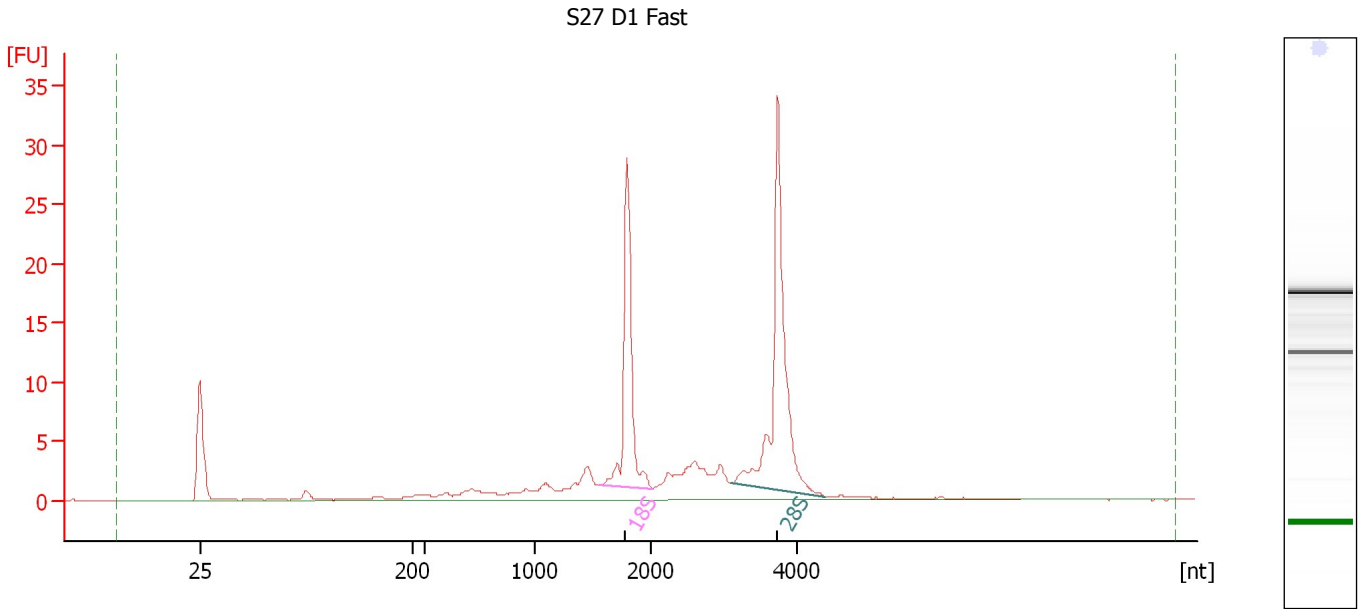
**Overall Results for Ladder**

RNA Area:	199.0	Result Flagging Color:	<span style="background-color: blue; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : S27 D1 Fast**

RNA Area:	123.9	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	93 ng/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: 8.90

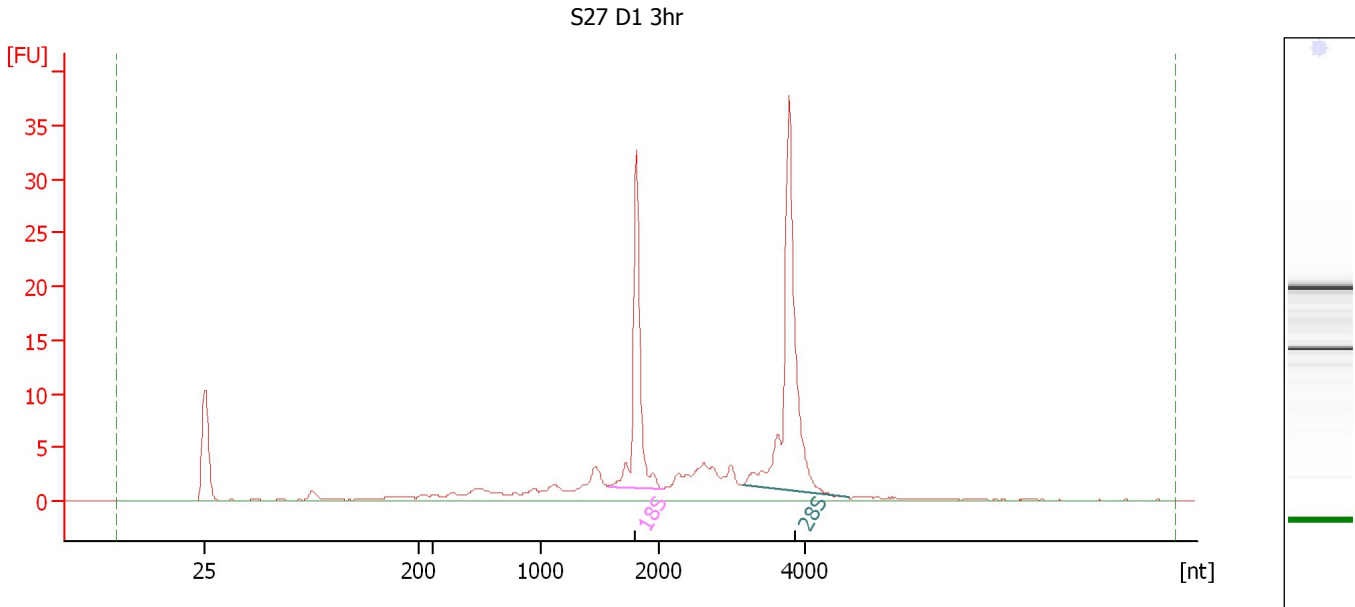
**Fragment table for sample 1 : S27 D1 Fast**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,553	2,035	25.0	20.1
28S	3,107	4,400	39.9	32.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : S27 D1 3hr**

RNA Area: 131.9                      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 99 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN: 8.80

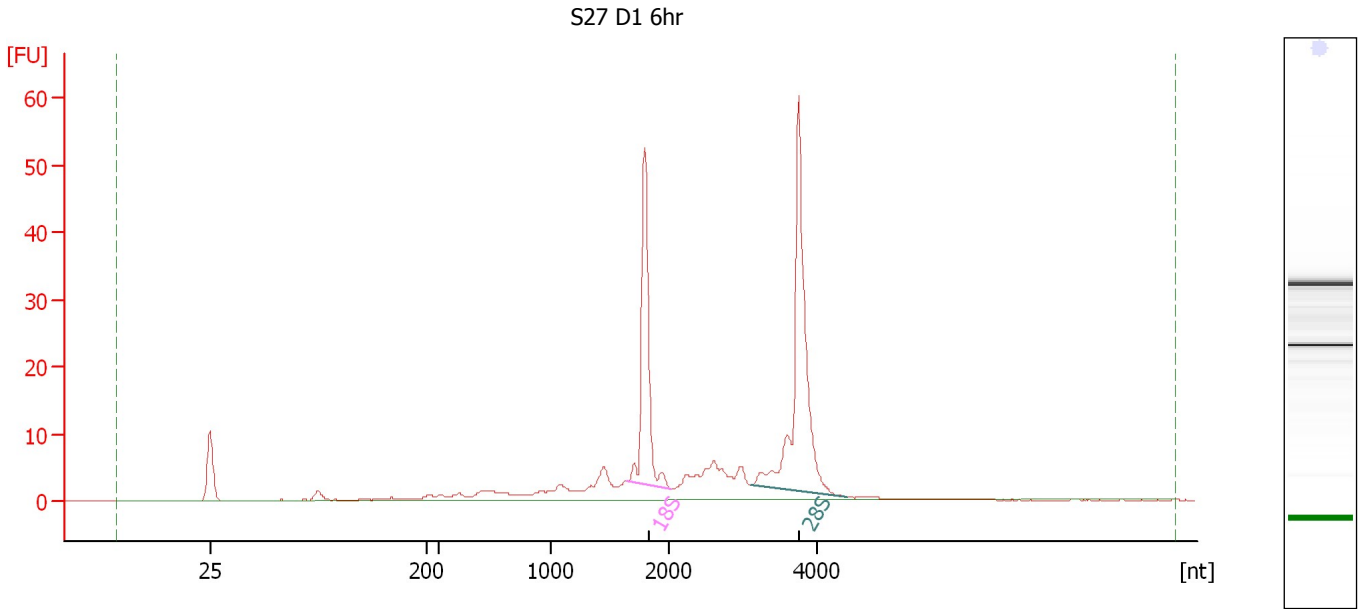
**Fragment table for sample 2 : S27 D1 3hr**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	2,040	27.3	20.7
28S	3,132	4,589	43.1	32.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : S27 D1 6hr**

RNA Area: 199.4      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 150 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6      Result Flagging Label: RIN: 8.80

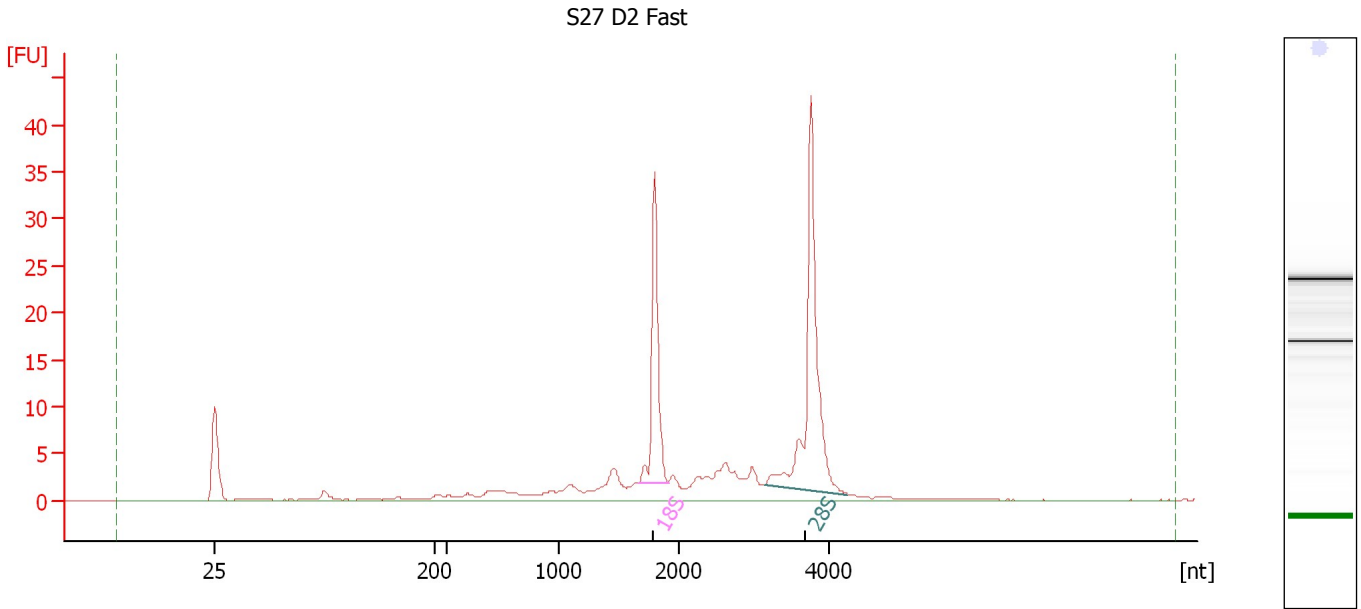
**Fragment table for sample 3 : S27 D1 6hr**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,651	2,018	41.5	20.8
28S	3,113	4,410	68.4	34.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : S27 D2 Fast**

RNA Area: 142.7                      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 108 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8                      Result Flagging Label: RIN: 8.60

**Fragment table for sample 4 : S27 D2 Fast**

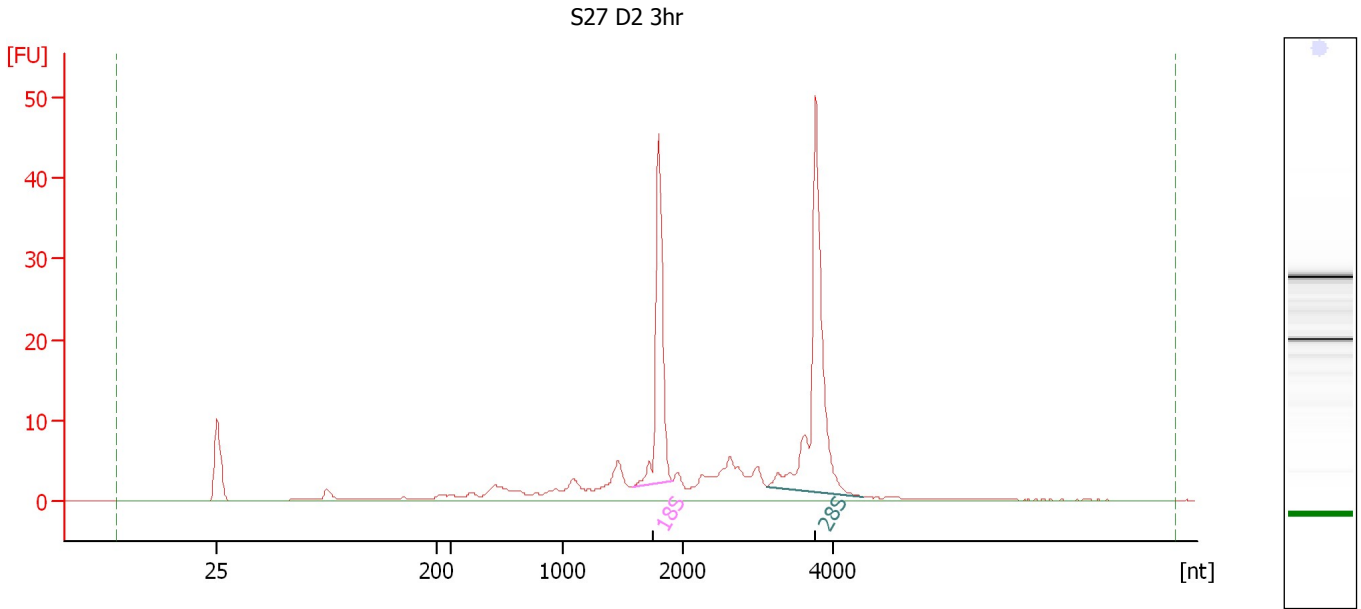
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,908	25.4	17.8
28S	3,137	4,250	44.5	31.2



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : S27 D2 3hr**

RNA Area:	177.6	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	134 ng/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: 8.60

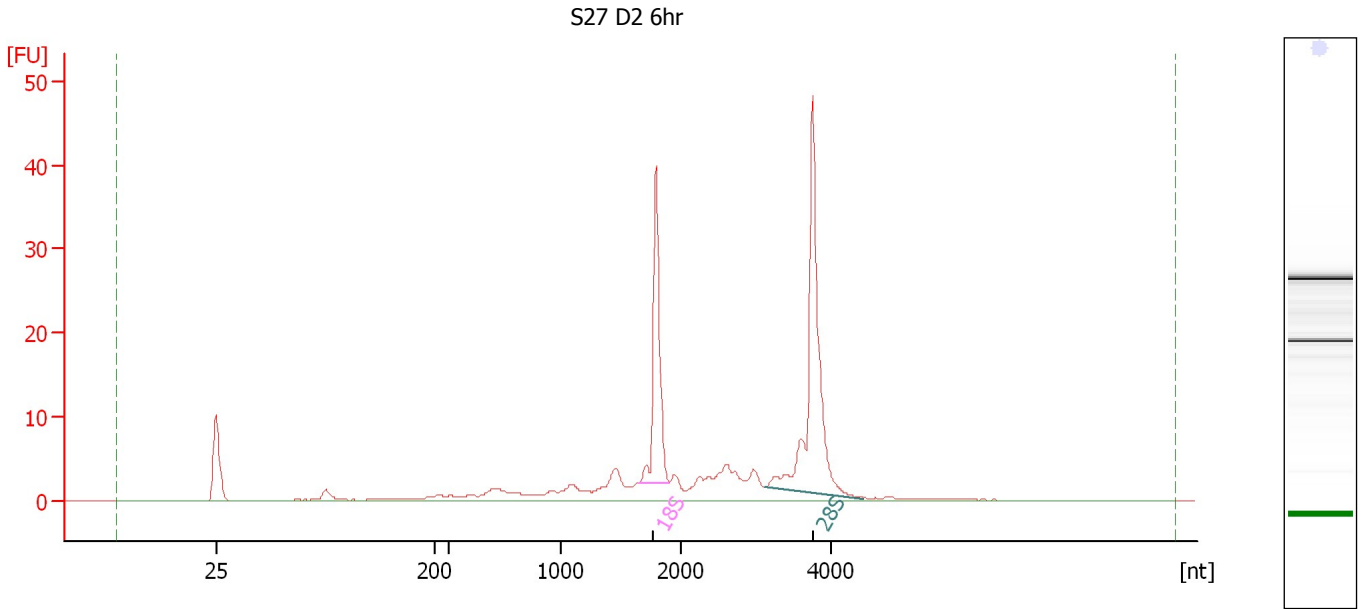
**Fragment table for sample 5 : S27 D2 3hr**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,911	34.2	19.3
28S	3,121	4,385	53.0	29.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : S27 D2 6hr**

RNA Area: 161.3      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 122 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8      Result Flagging Label: RIN: 8.60

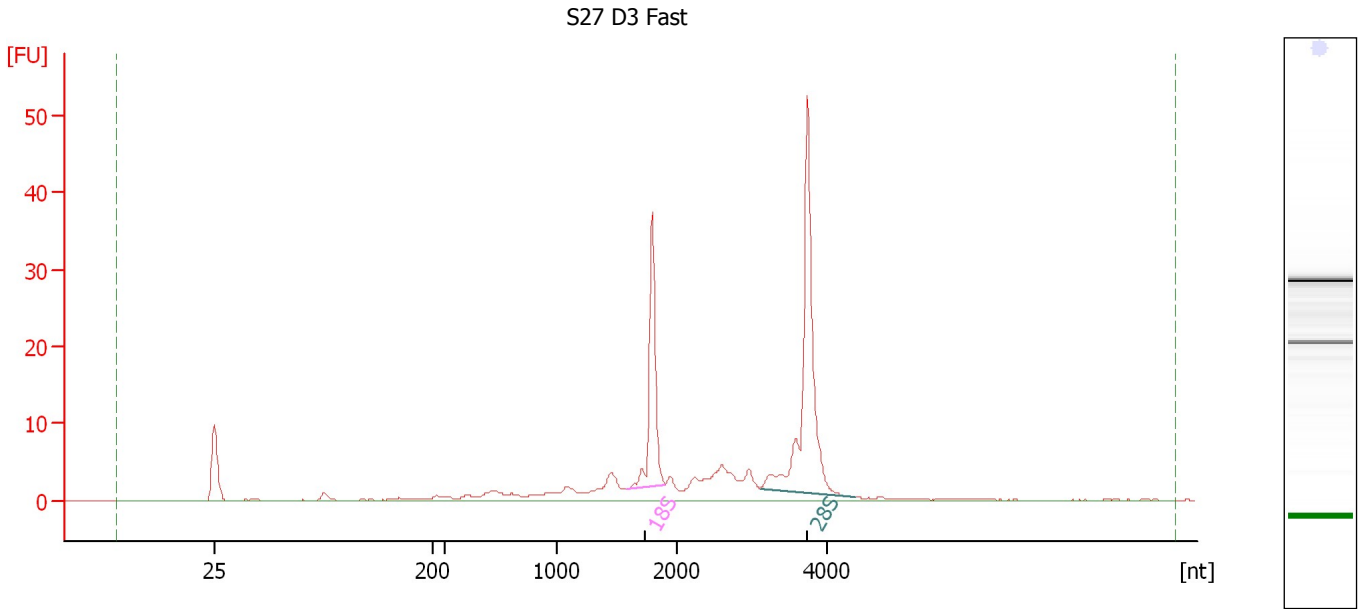
**Fragment table for sample 6 : S27 D2 6hr**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,652	1,901	28.8	17.9
28S	3,122	4,432	50.8	31.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : S27 D3 Fast**

RNA Area: 148.3                      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 112 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN:9

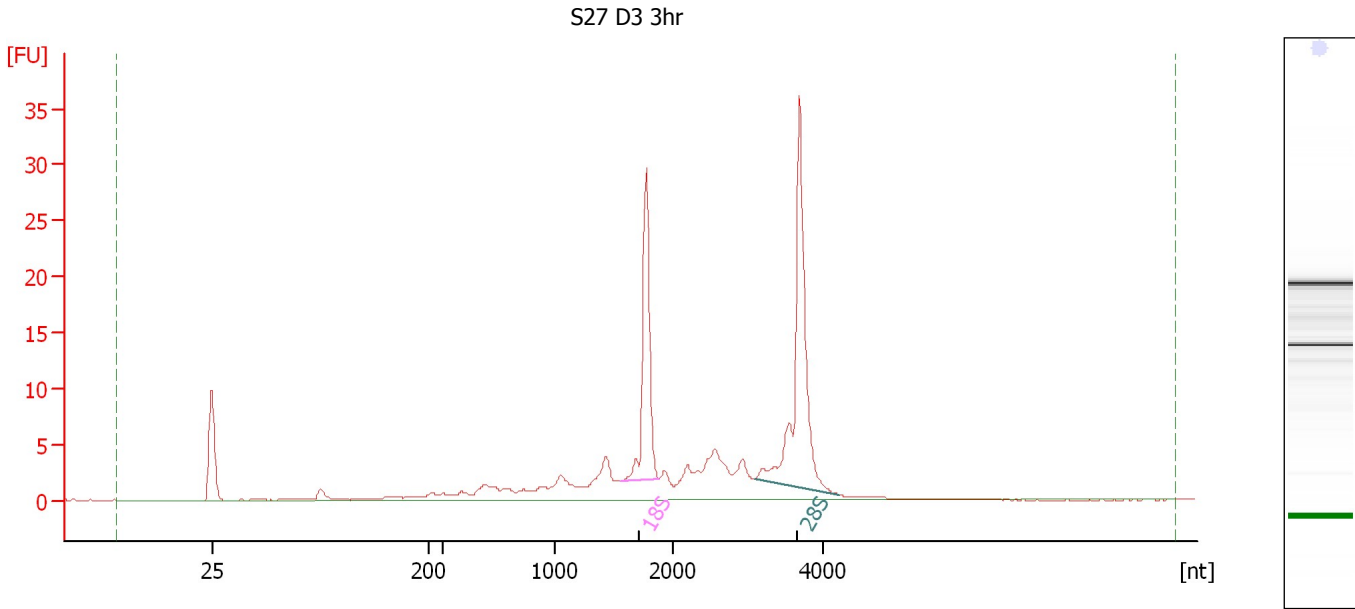
**Fragment table for sample 7 : S27 D3 Fast**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,898	27.7	18.7
28S	3,110	4,382	53.6	36.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : S27 D3 3hr**

RNA Area: 133.8                      RNA Integrity Number (RIN): 8.2 (B.02.08)  
RNA Concentration: 101 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7                      Result Flagging Label: RIN: 8.20

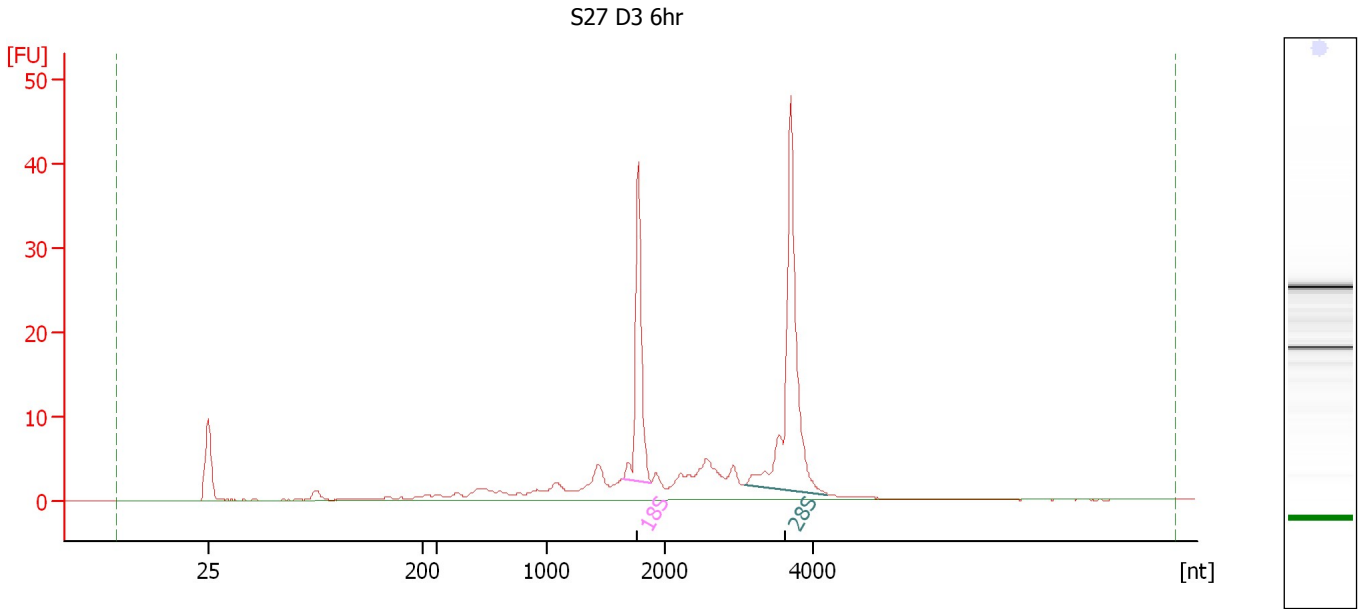
**Fragment table for sample 8 : S27 D3 3hr**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,555	1,878	22.2	16.6
28S	3,097	4,217	37.1	27.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : S27 D3 6hr**

RNA Area: 161.1                      RNA Integrity Number (RIN): 8.5 (B.02.08)  
RNA Concentration: 121 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8                      Result Flagging Label: RIN: 8.50

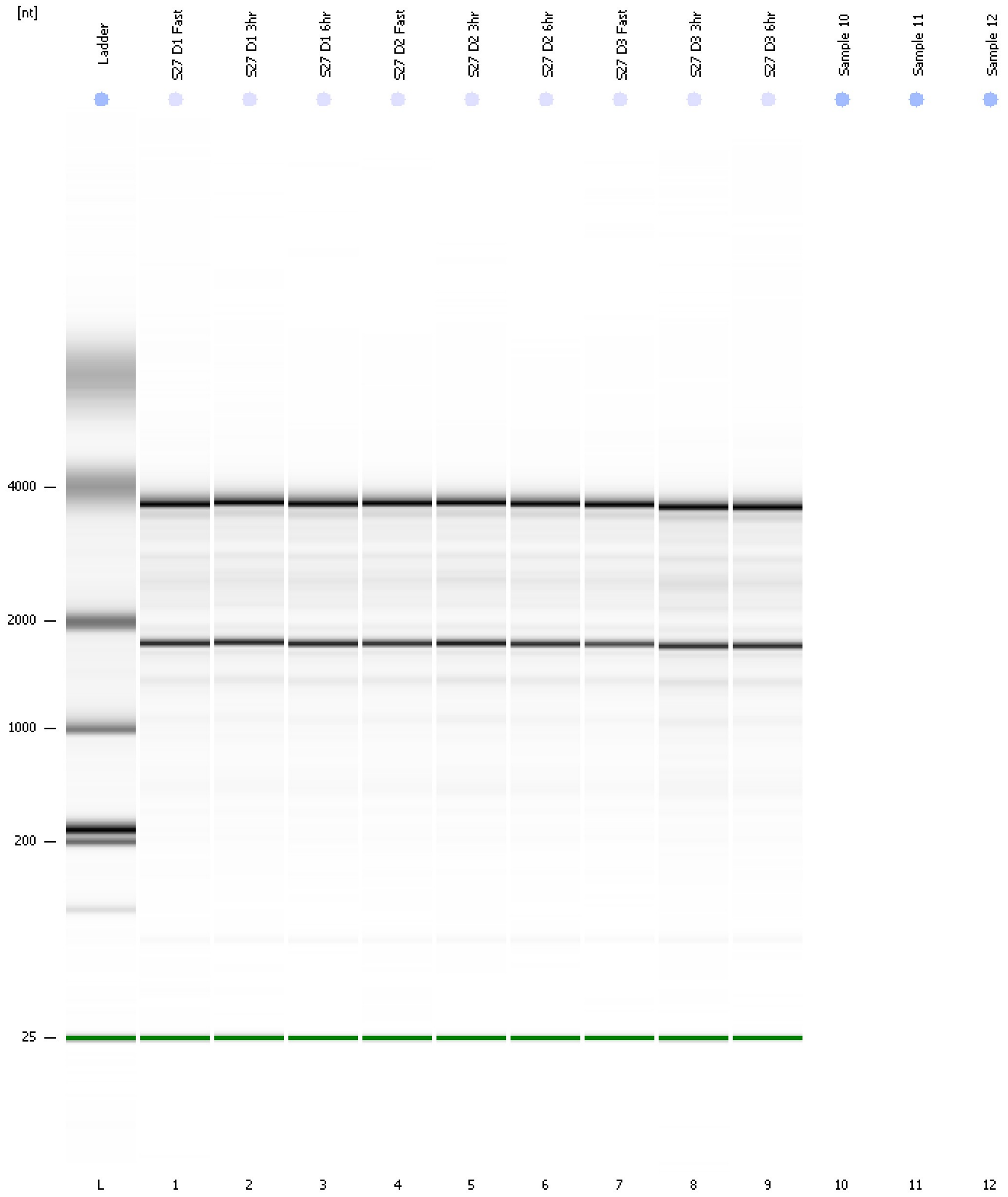
**Fragment table for sample 9 : S27 D3 6hr**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,883	28.9	18.0
28S	3,086	4,201	51.1	31.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
Modified: 6/2/2016 4:32:44 PM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-02\2016-06-02\_005.xad

Created: 6/2/2016 4:13:37 PM  
 Modified: 6/2/2016 4:32:44 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		6/2/2016 4:32:43 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\2016-06-02\2016-06-02_005.xad)		Instrument	Run		6/2/2016 4:13:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/2/2016 4:13:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/2/2016 4:13:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/2/2016 4:13:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/2/2016 4:13:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/2/2016 4:13:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/2/2016 4:13:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1