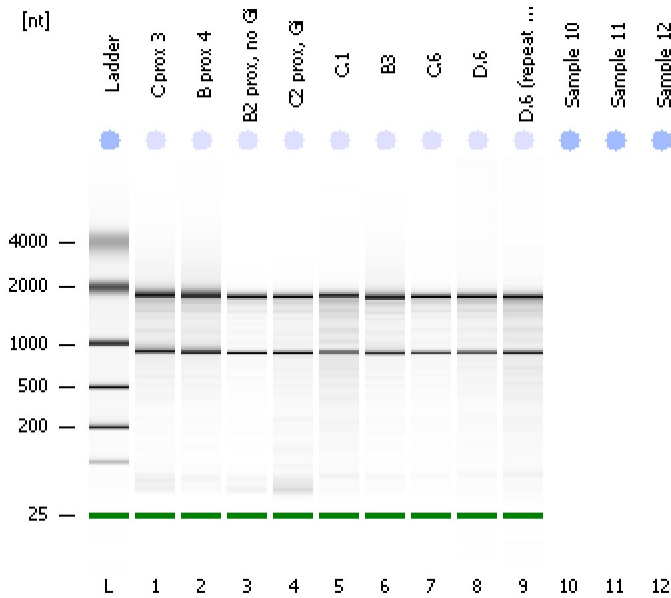


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

Electrophoresis File Run Summary



Instrument Information:

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

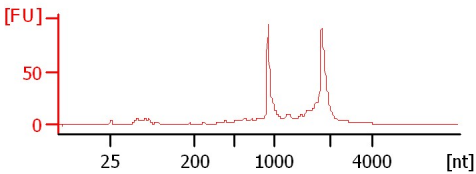
Assay Information:

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.

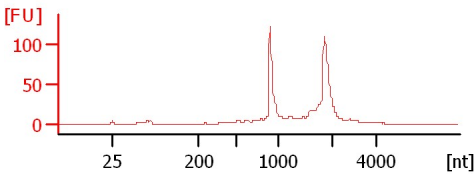
Chip Information:

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

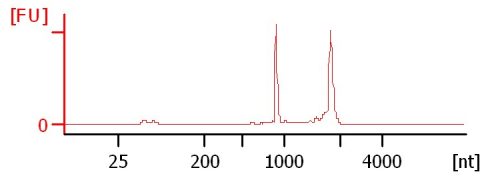
**C prox 3**  
total RNA  
RIN: 8.80



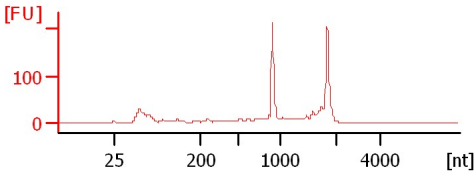
**B prox 4**  
total RNA  
RIN: 9



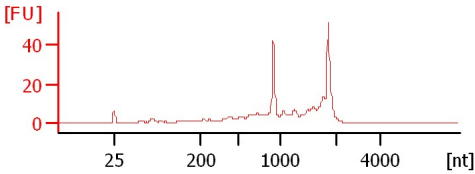
**B2 prox, no Gi**  
total RNA  
RIN: 9.50



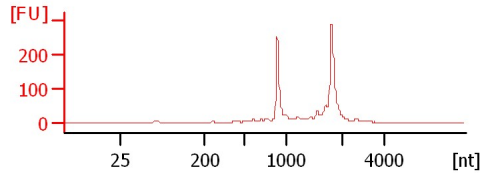
**C2 prox, Gi**  
total RNA  
RIN: 7.50



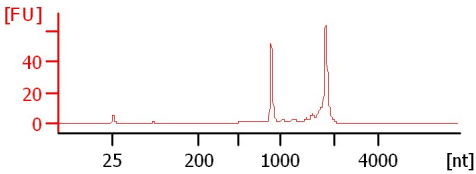
**C.1**  
total RNA  
RIN: 7.40



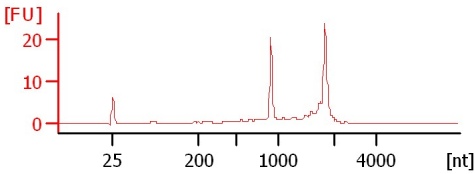
**B3**  
total RNA  
RIN: 8.50



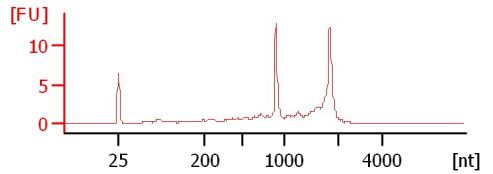
**C.6**  
total RNA  
RIN: 9



**D.6**  
total RNA  
RIN: 8.50



**D.6 (repeat of above)**  
total RNA  
RIN: 8



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
C prox 3	total RNA	✓	RIN: 8.80	
B prox 4	total RNA	✓	RIN:9	
B2 prox, no Gi	total RNA	✓	RIN: 9.50	
C2 prox, Gi	total RNA	✓	RIN: 7.50	
C.1	total RNA	✓	RIN: 7.40	
B3	total RNA	✓	RIN: 8.50	
C.6	total RNA	✓	RIN:9	
D.6	total RNA	✓	RIN: 8.50	
D.6 (repeat of above)	total RNA	✓	RIN:8	
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\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

## 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

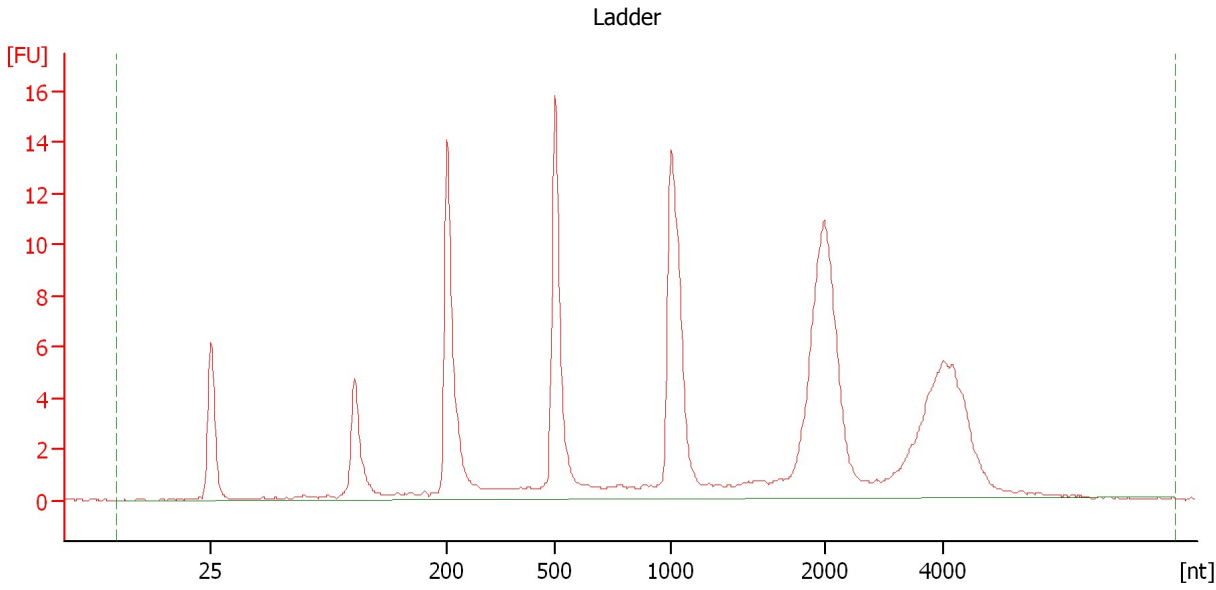
### Ladder

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\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary**



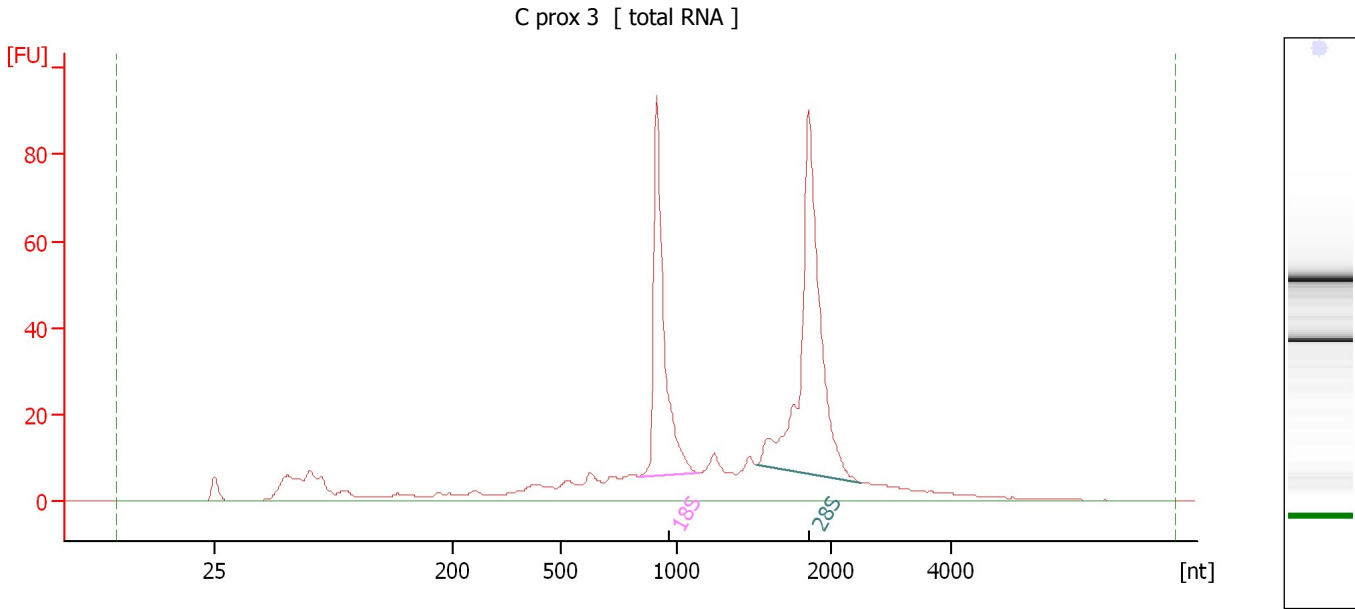
**Overall Results for Ladder**

RNA Area:	142.4	Result Flagging Color:	<span style="background-color: #add8e6; 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\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : C prox 3**

RNA Area:	583.0	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	614 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: 8.80

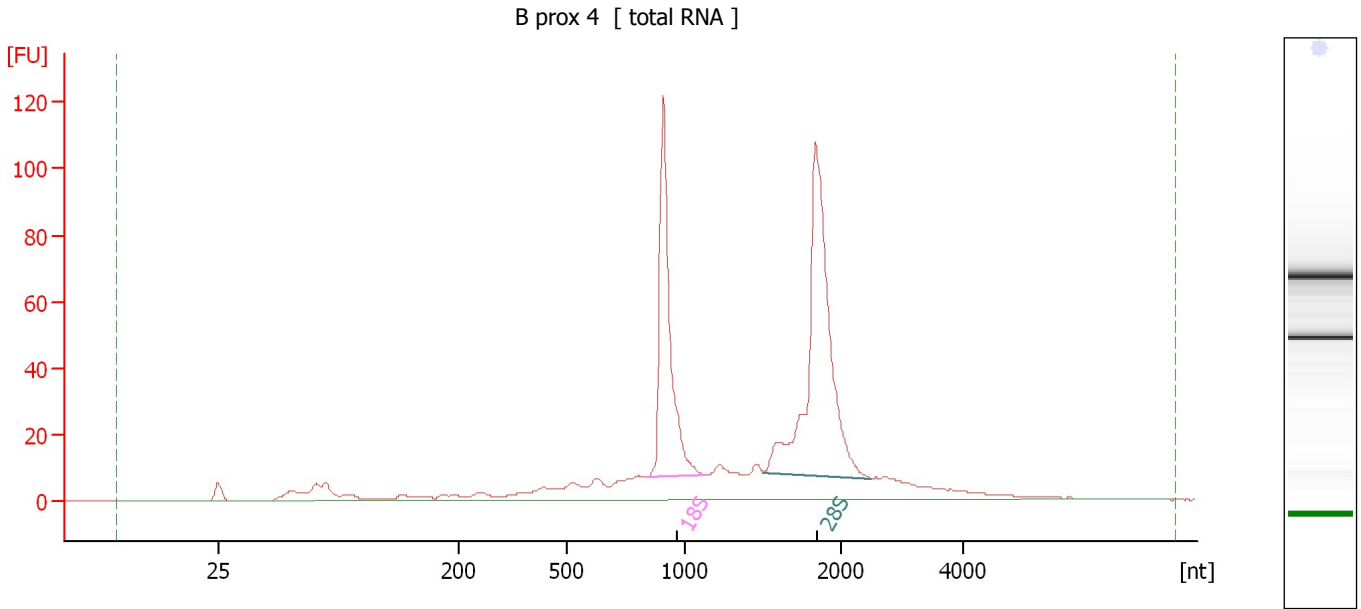
**Fragment table for sample 1 : C prox 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	837	1,141	106.0	18.2
28S	1,509	2,503	167.5	28.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : B prox 4**

RNA Area: 697.8                      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 735 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6                      Result Flagging Label: RIN:9

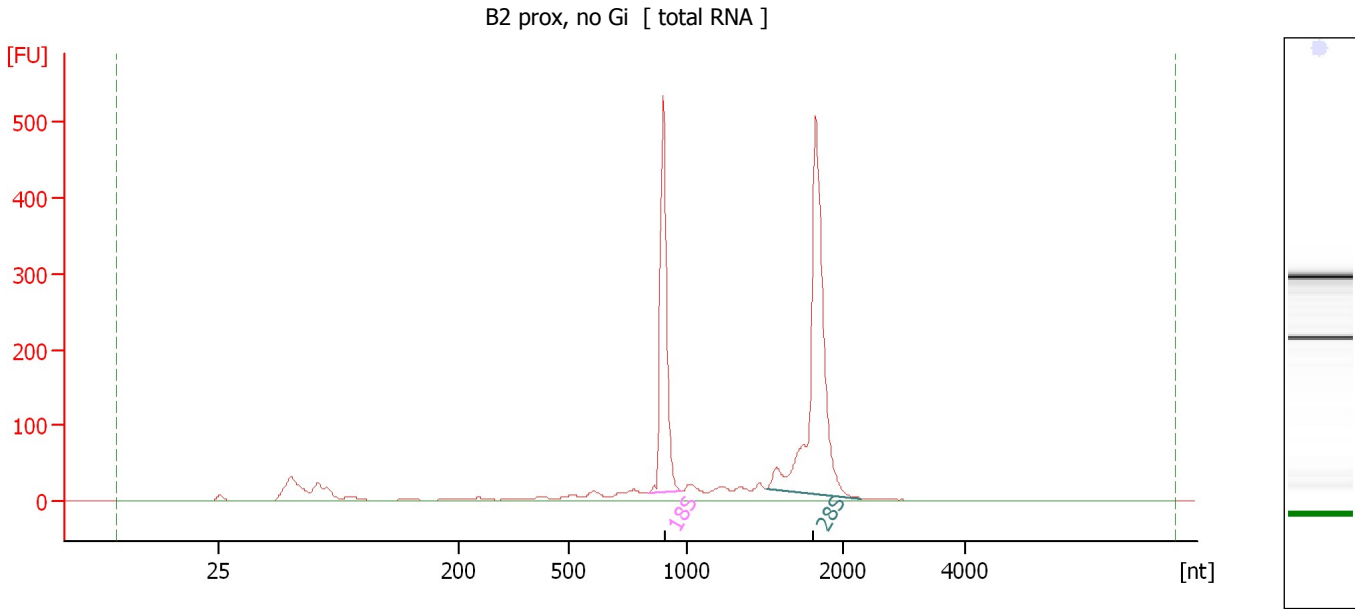
**Fragment table for sample 2 : B prox 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	835	1,135	135.9	19.5
28S	1,500	2,503	218.3	31.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : B2 prox, no Gi**

RNA Area: 1,694.7      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 1,785 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7      Result Flagging Label: RIN: 9.50

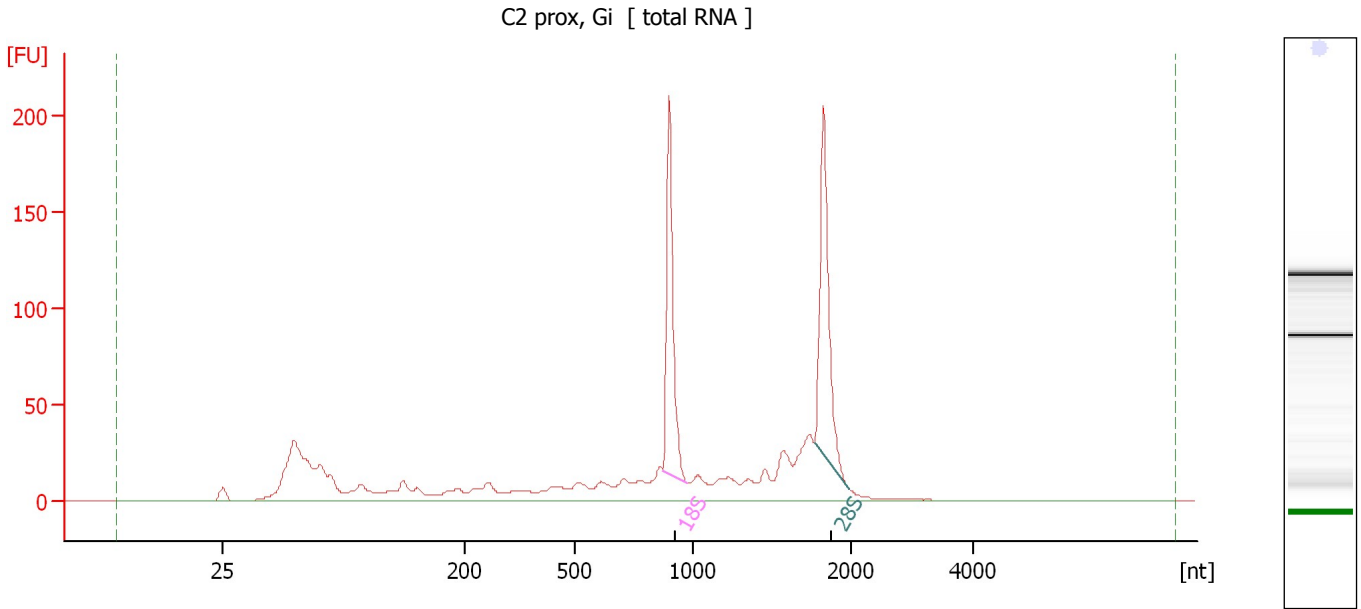
**Fragment table for sample 3 : B2 prox, no Gi**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	832	971	392.0	23.1
28S	1,507	2,305	674.6	39.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : C2 prox, Gi**

RNA Area: 1,061.1      RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 1,118 ng/μl      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0      Result Flagging Label: RIN: 7.50

**Fragment table for sample 4 : C2 prox, Gi**

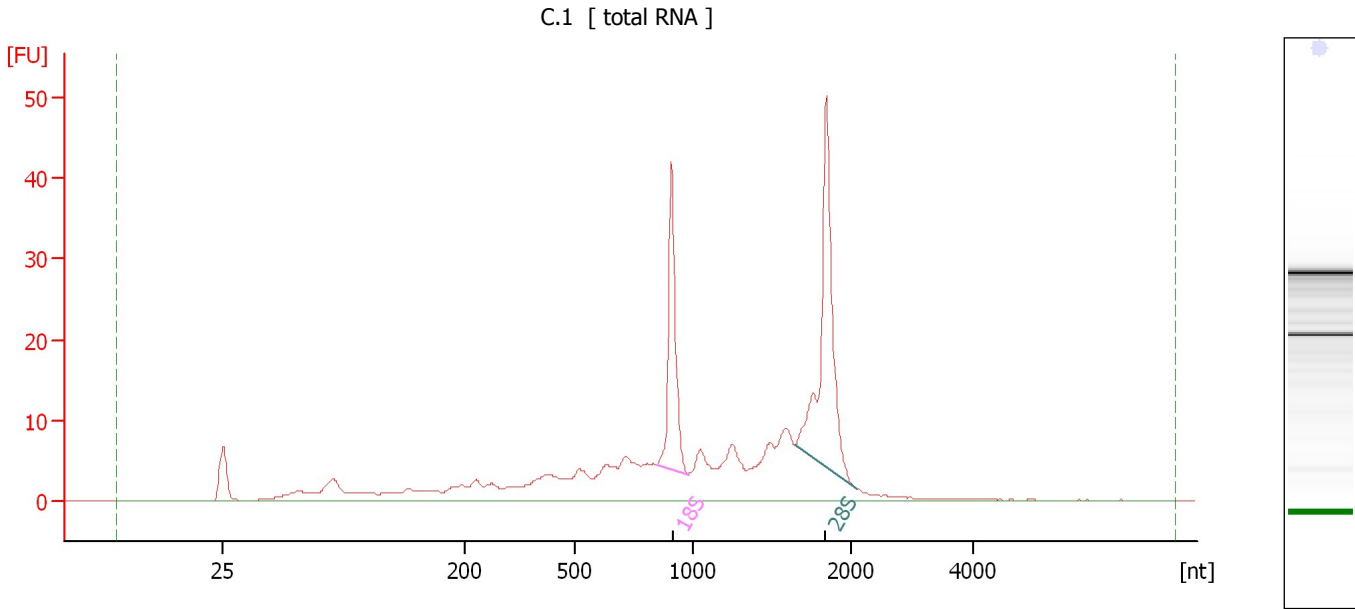
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	870	973	152.5	14.4
28S	1,772	1,991	159.4	15.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : C.1**

RNA Area: 286.8                      RNA Integrity Number (RIN): 7.4 (B.02.08)  
RNA Concentration: 302 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8                      Result Flagging Label: RIN: 7.40

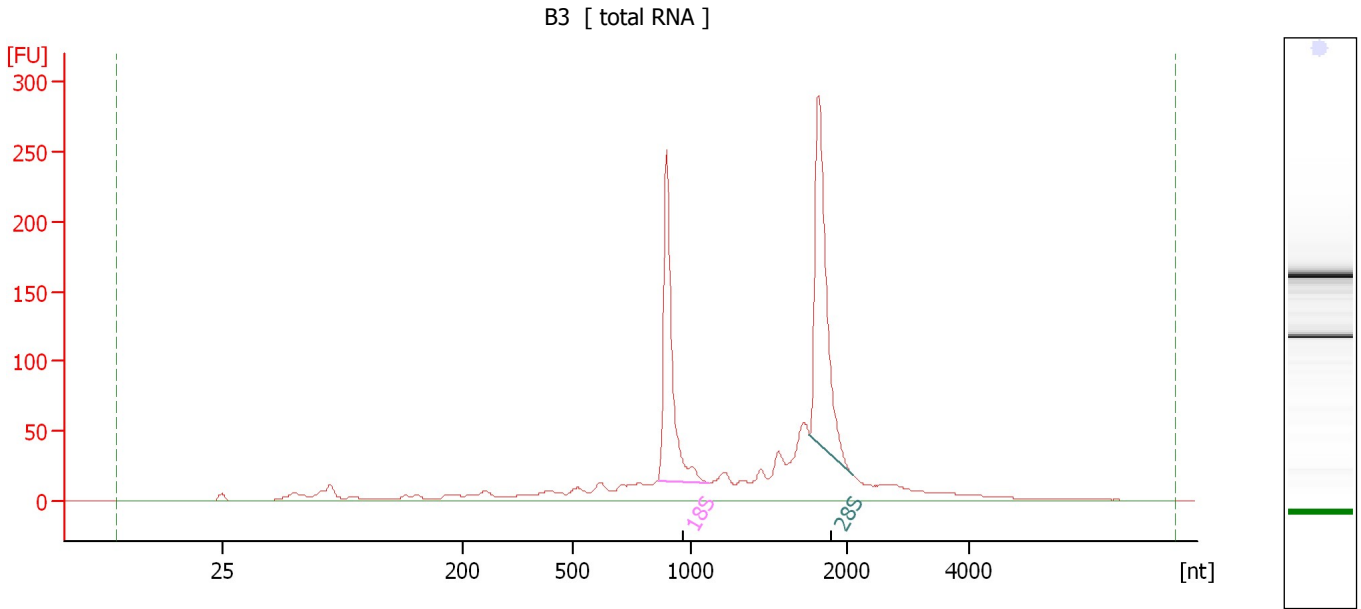
**Fragment table for sample 5 : C.1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	843	977	31.5	11.0
28S	1,643	2,118	55.2	19.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : B3**

RNA Area:	1,289.7	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	1,359 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]:	1.2	Result Flagging Label:	RIN: 8.50

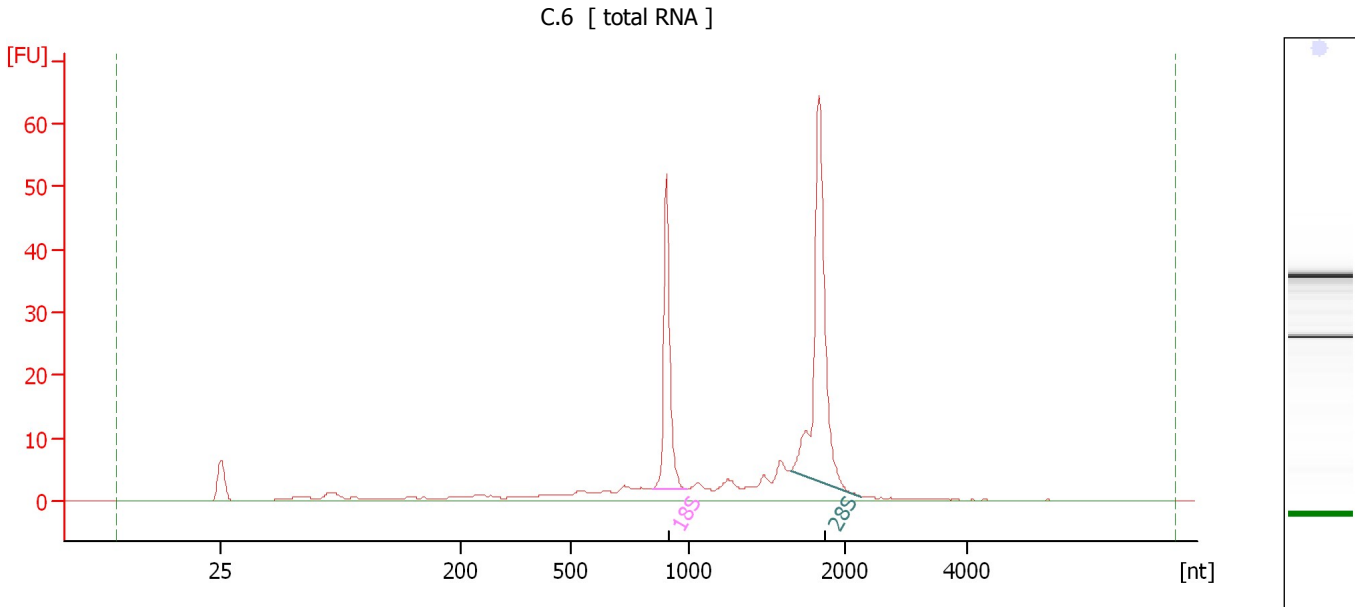
**Fragment table for sample 6 : B3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	860	1,109	240.4	18.6
28S	1,753	2,087	282.8	21.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : C.6**

RNA Area: 202.8                      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 214 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7                      Result Flagging Label: RIN:9

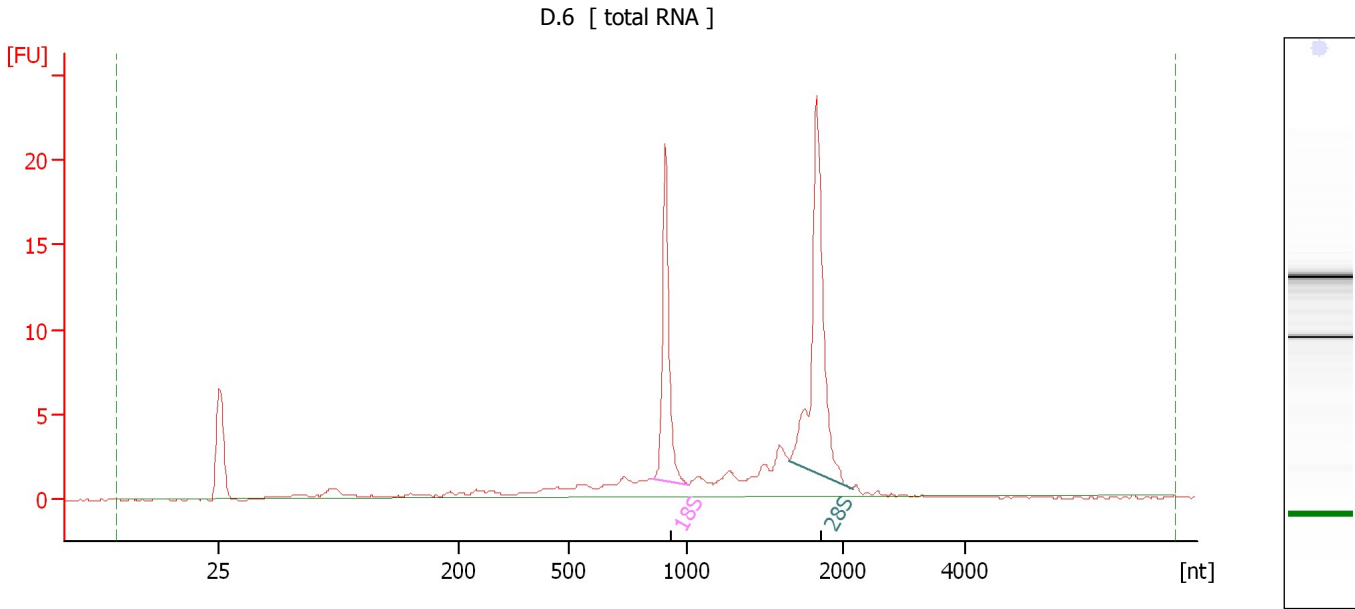
**Fragment table for sample 7 : C.6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	841	990	38.1	18.8
28S	1,644	2,248	65.9	32.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
 Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : D.6**

RNA Area:	85.7	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	90 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]:	1.7	Result Flagging Label:	RIN: 8.50

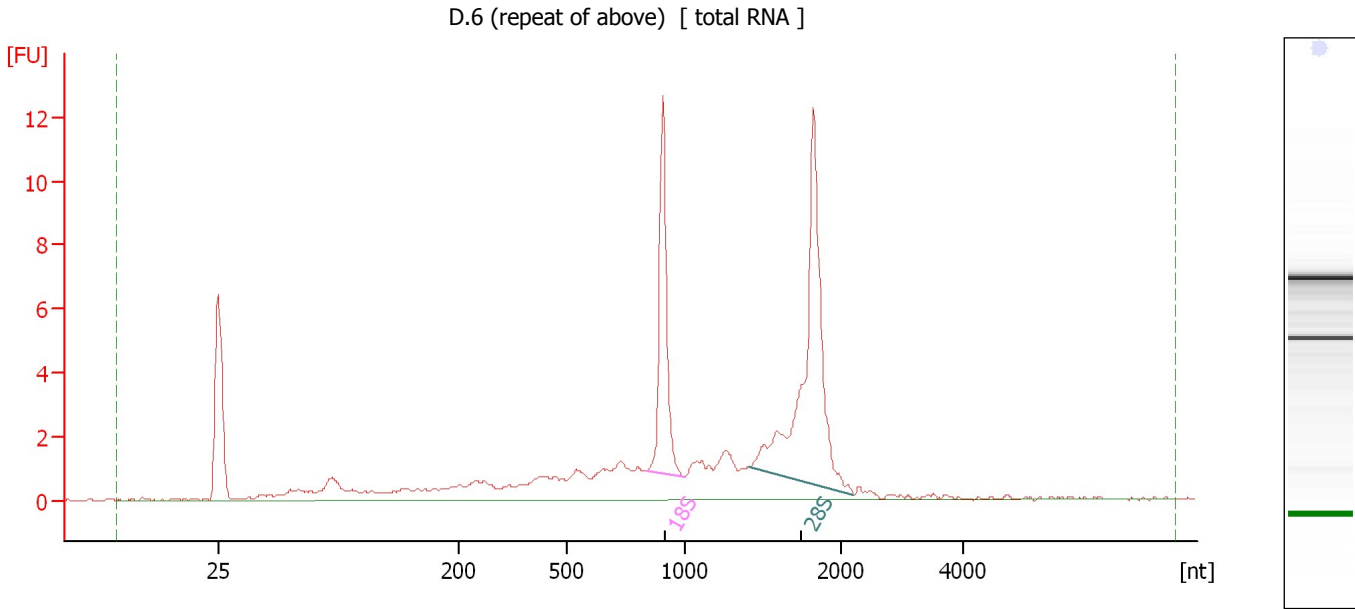
**Fragment table for sample 8 : D.6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	854	1,005	15.5	18.1
28S	1,651	2,147	25.8	30.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : D.6 (repeat of above)**

RNA Area: 73.7 RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 78 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:8

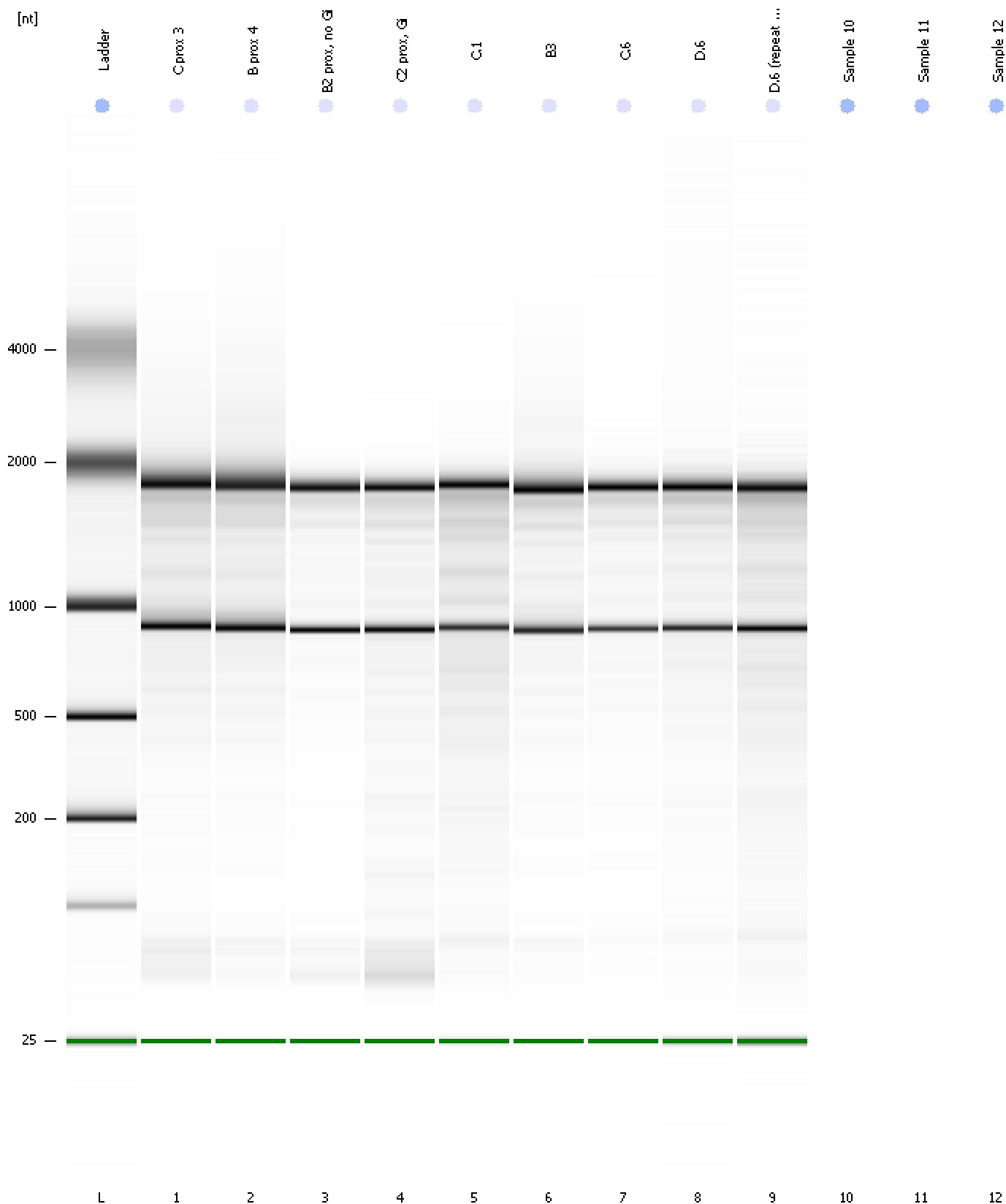
**Fragment table for sample 9 : D.6 (repeat of above)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	835	994	9.9	13.4
28S	1,411	2,204	20.7	28.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
Modified: 7/24/2014 11:17:26 AM

**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\2014-07-24\2014-07-24\_001.xad

Created: 7/24/2014 10:57:43 AM  
 Modified: 7/24/2014 11:17:26 AM

**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		7/24/2014 11:17:24 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\2014-07-24\2014-07-24_001.xad)		Instrument	Run		7/24/2014 10:57:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/24/2014 10:57:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/24/2014 10:57:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/24/2014 10:57:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/24/2014 10:57:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/24/2014 10:57:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/24/2014 10:57:49 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1