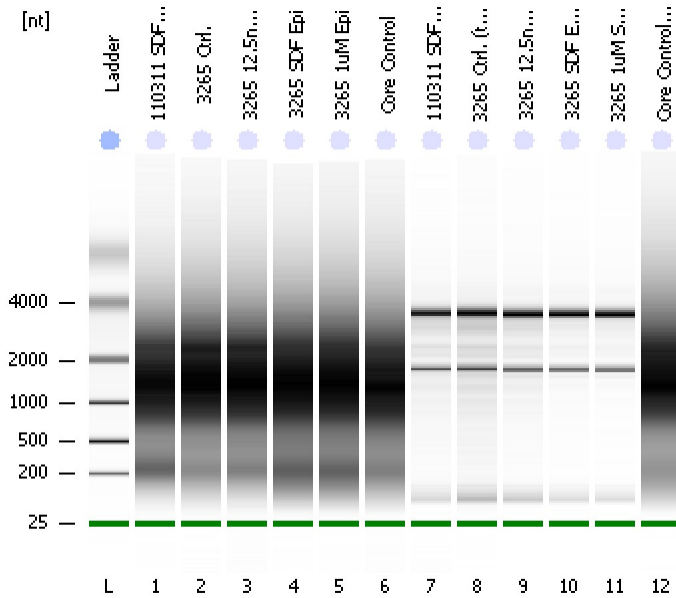


Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
 Modified: 8/9/2013 12:45:07 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

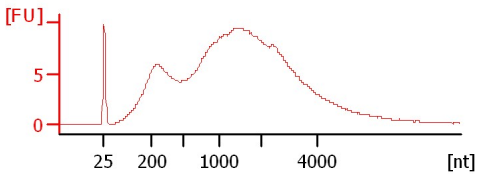
Assay Information:

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.

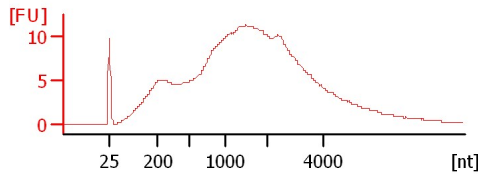
Chip Information:

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

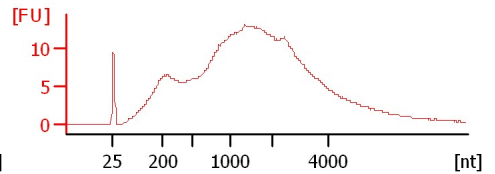
**110311 SDF Epi**  
 RIN: 2.50



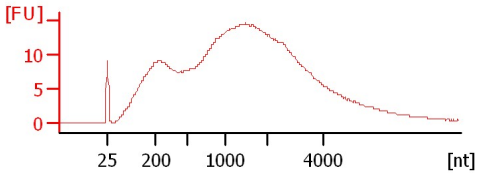
**3265 Ctrl.**  
 RIN: 4



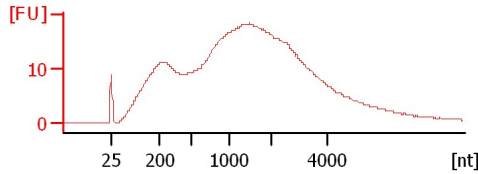
**3265 12.5nM SDF**  
 RIN: 3.30



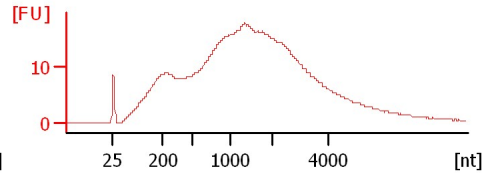
**3265 SDF Epi**  
 RIN: 2.70



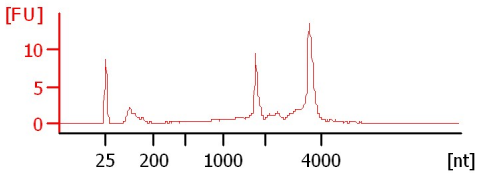
**3265 1uM Epi**  
 RIN: 8.60



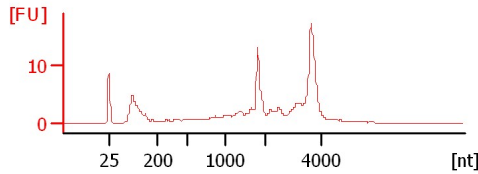
**Core Control**  
 RIN: 3.10



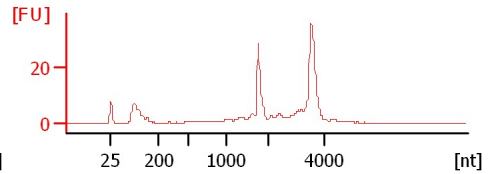
**110311 SDF Epi (total RNA)**  
 RIN: 8.90



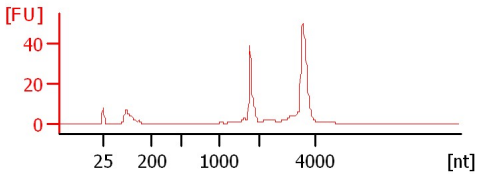
**3265 Ctrl. (total RNA)**  
 RIN: 8.40



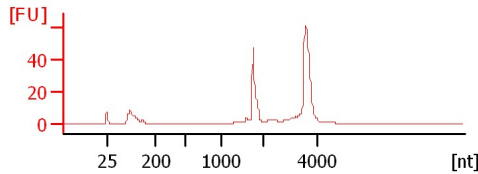
**3265 12.5nM SDF (total RNA)**  
 RIN: 8.40



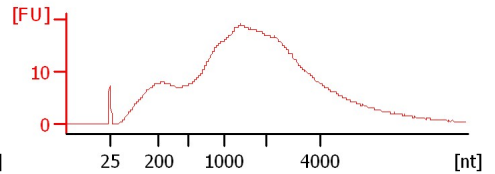
**3265 SDF Epi (total RNA)**  
 RIN: 9.60



**3265 1uM SDF (total RNA)**  
 RIN: 9.70



**Core Control (8/7/13)**  
 RIN: 3.40



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
110311 SDF Epi		✓	RIN: 2.50	
3265 Ctrl.		✓	RIN:4	
3265 12.5nM SDF		✓	RIN: 3.30	
3265 SDF Epi		✓	RIN: 2.70	
3265 1uM Epi		✓	RIN: 8.60	
Core Control		✓	RIN: 3.10	
110311 SDF Epi (total RNA)		✓	RIN: 8.90	
3265 Ctrl. (total RNA)		✓	RIN: 8.40	
3265 12.5nM SDF (total RNA)		✓	RIN: 8.40	
3265 SDF Epi (total RNA)		✓	RIN: 9.60	
3265 1uM SDF (total RNA)		✓	RIN: 9.70	
Core Control (8/7/13)		✓	RIN: 3.40	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 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/ $\mu$ l] : 150  
Lower Marker Concentration [ng/ $\mu$ l] : 0  
Upper Marker Concentration [ng/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 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

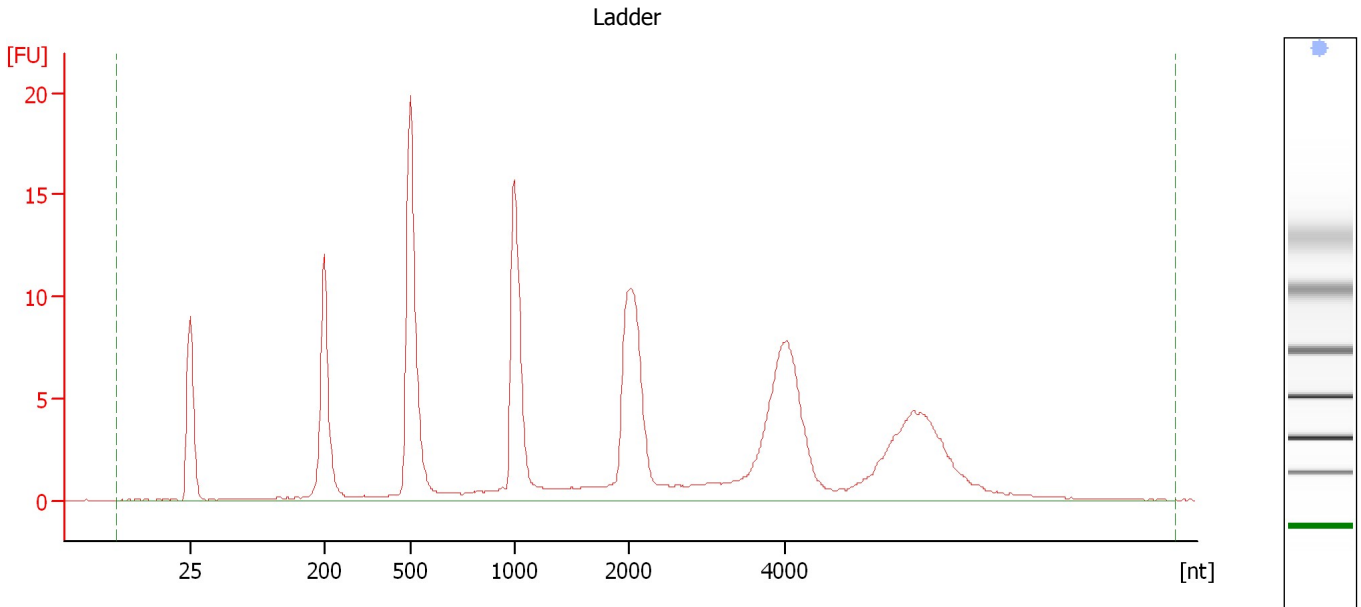
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary**



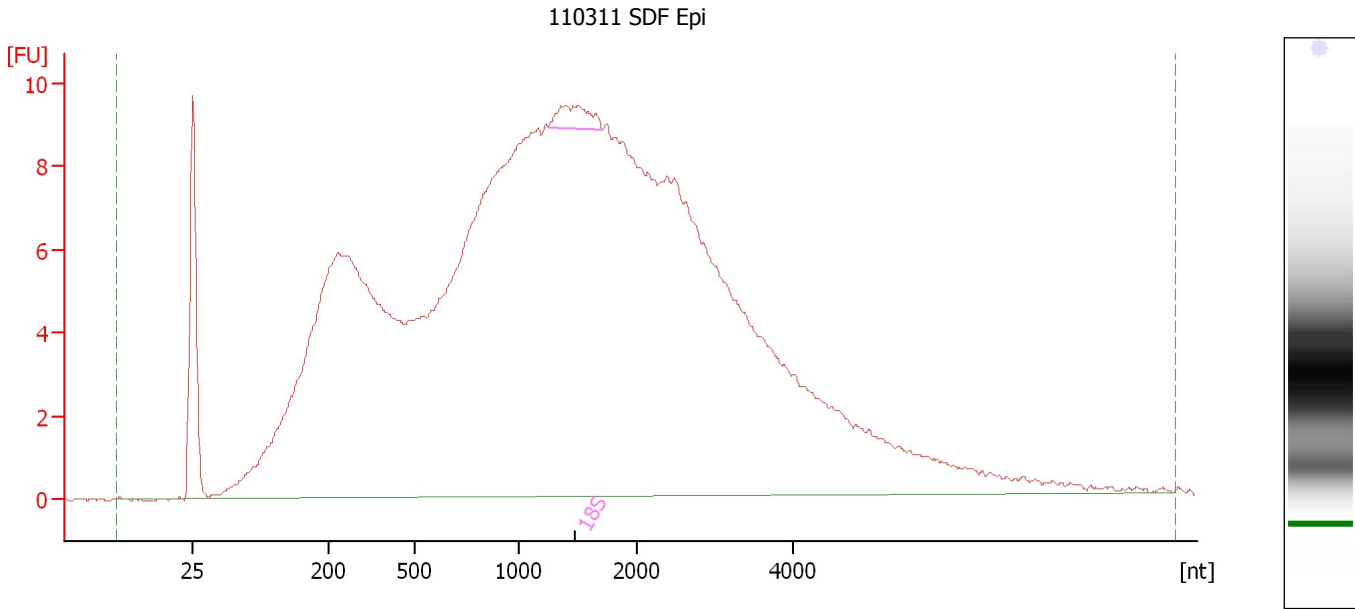
**Overall Results for Ladder**

RNA Area:	169.9	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:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 110311 SDF Epi**

RNA Area:	416.4	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	368 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]:	0.0	Result Flagging Label:	RIN: 2.50

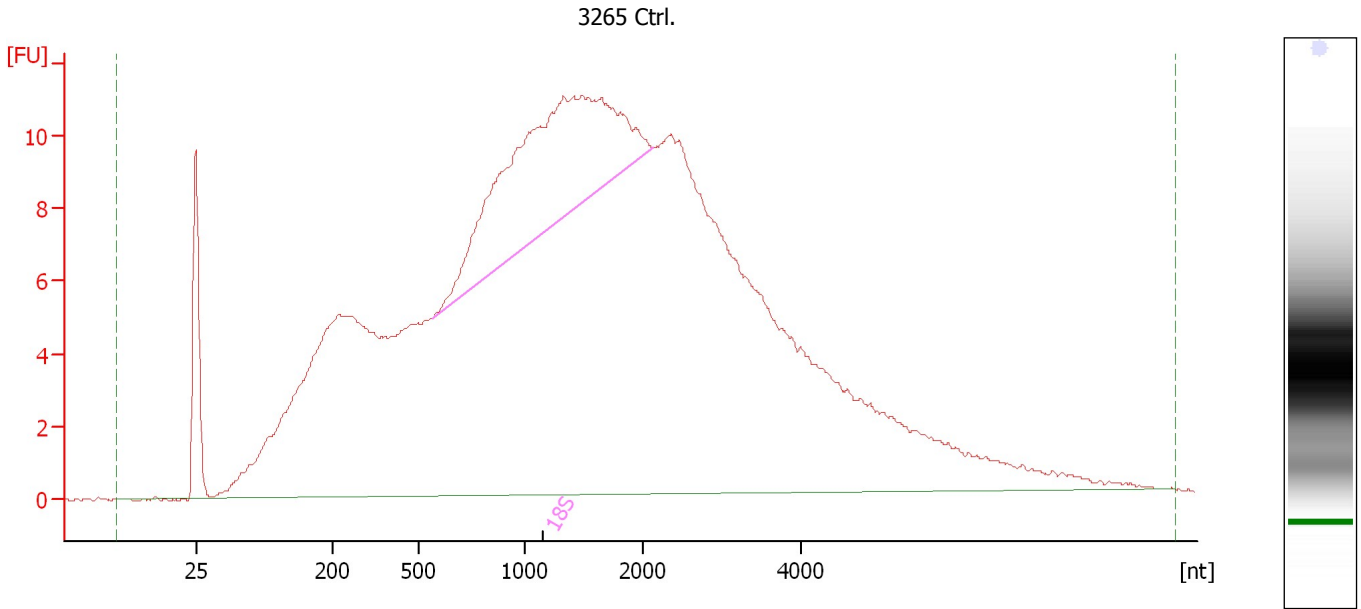
**Fragment table for sample 1 : 110311 SDF Epi**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,248	1,708	2.4	0.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 3265 Ctrl.**

RNA Area:	487.7	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	431 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]:	0.0	Result Flagging Label:	RIN:4

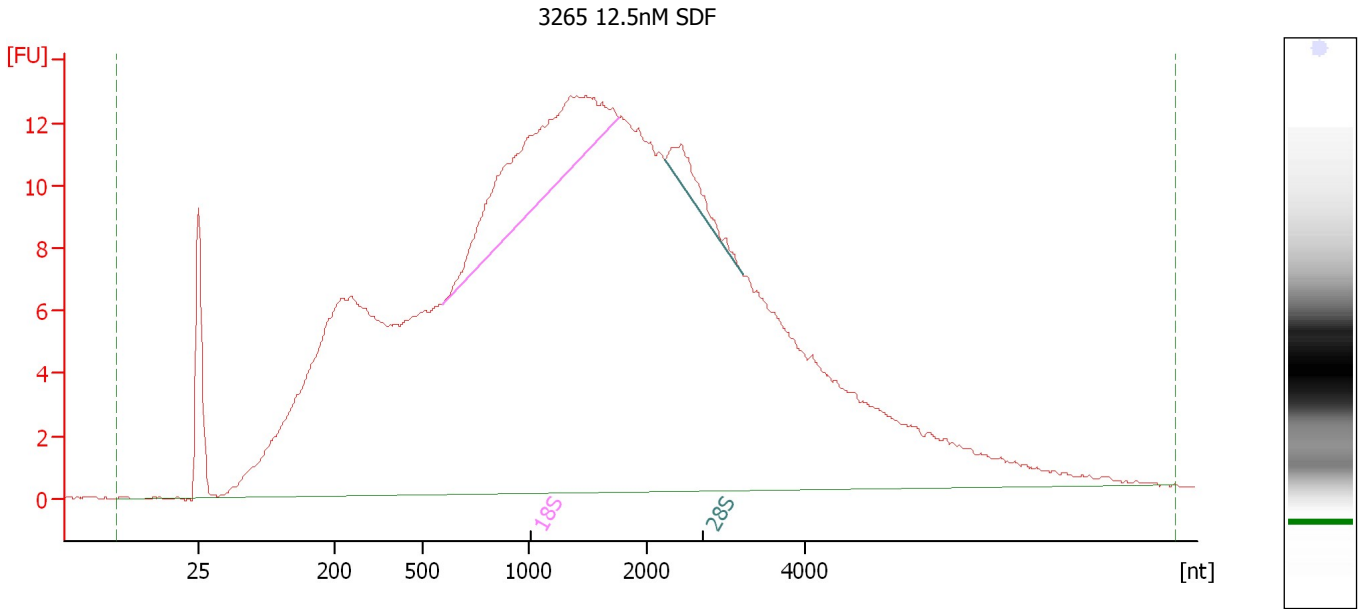
**Fragment table for sample 2 : 3265 Ctrl.**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	561	2,129	51.1	10.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
 Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 3265 12.5nM SDF**

RNA Area:	562.5	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	497 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]:	0.1	Result Flagging Label:	RIN: 3.30

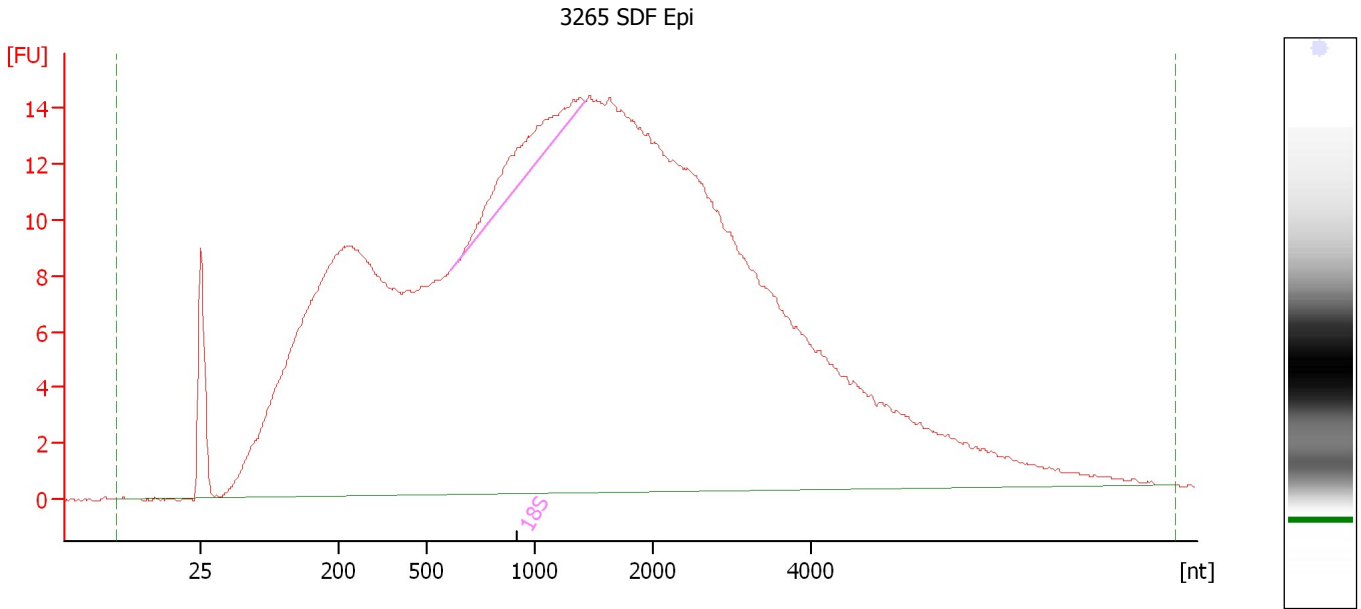
**Fragment table for sample 3 : 3265 12.5nM SDF**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	597	1,770	33.6	6.0
28S	2,226	3,209	4.5	0.8

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 3265 SDF Epi**

RNA Area:	696.7	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	615 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]:	0.0	Result Flagging Label:	RIN: 2.70

**Fragment table for sample 4 : 3265 SDF Epi**

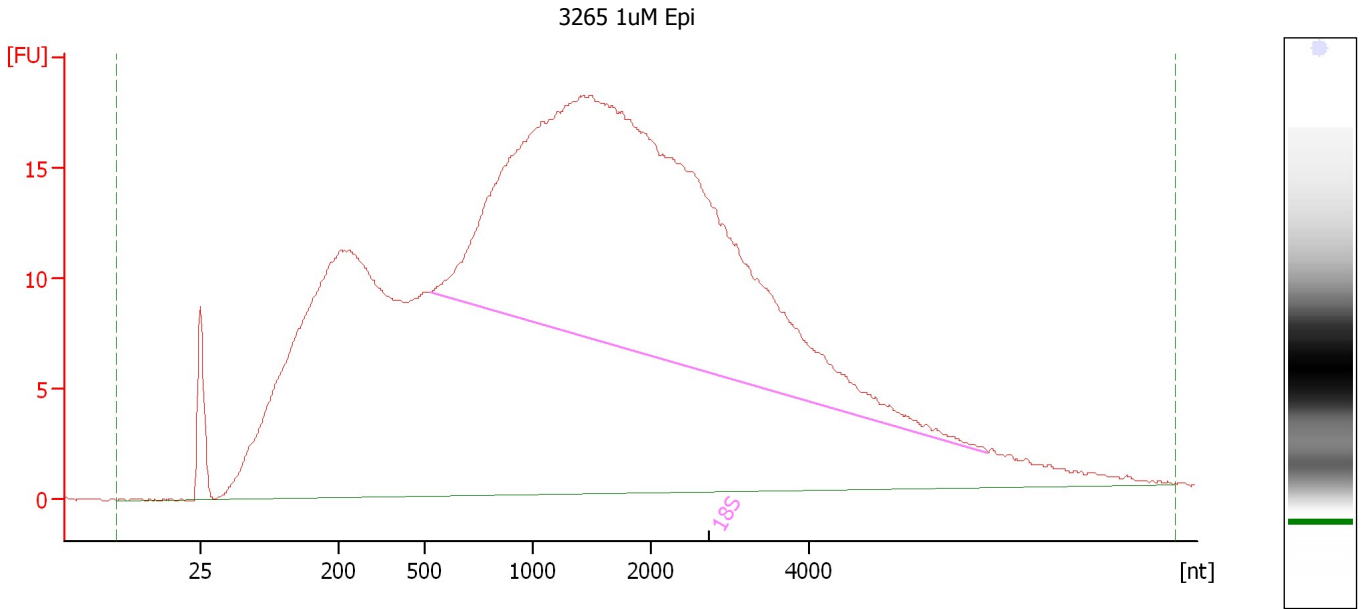
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	614	1,431	13.0	1.9



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
 Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 3265 1uM Epi**

RNA Area:	873.0	RNA Integrity Number (RIN):	8.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	771 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 8.60

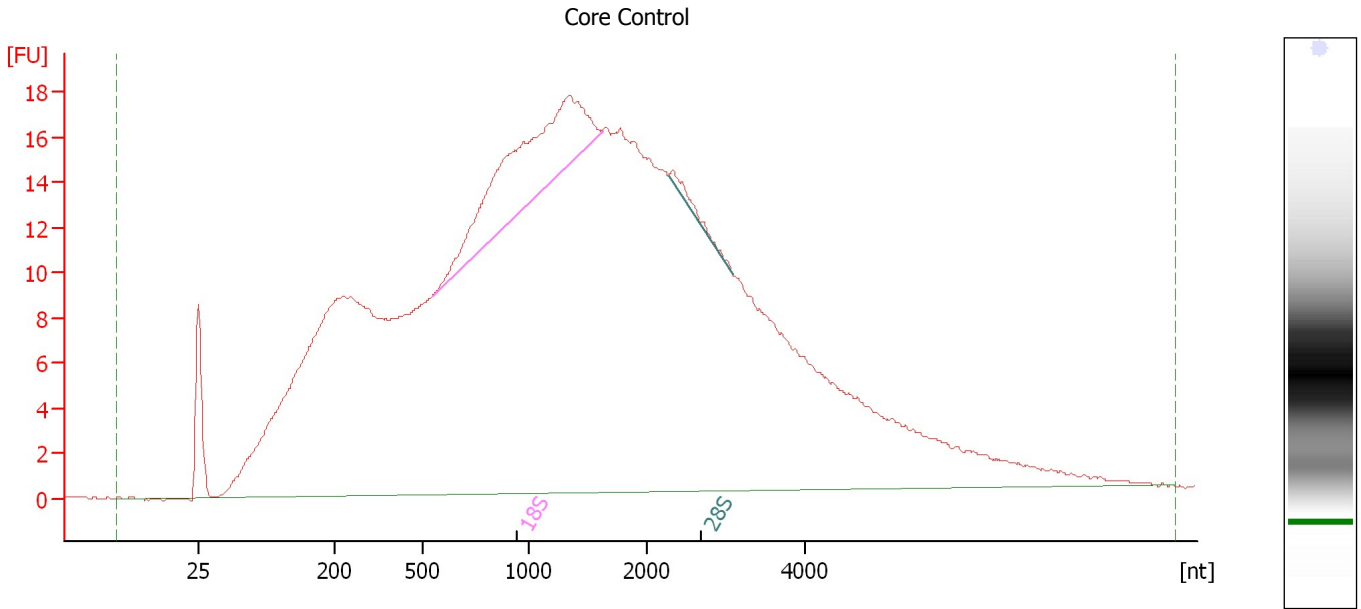
**Fragment table for sample 5 : 3265 1uM Epi**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	527	6,236	300.8	34.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
 Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : Core Control**

RNA Area:	784.6	RNA Integrity Number (RIN):	3.1 (B.02.08)
RNA Concentration:	693 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]:	0.1	Result Flagging Label:	RIN: 3.10

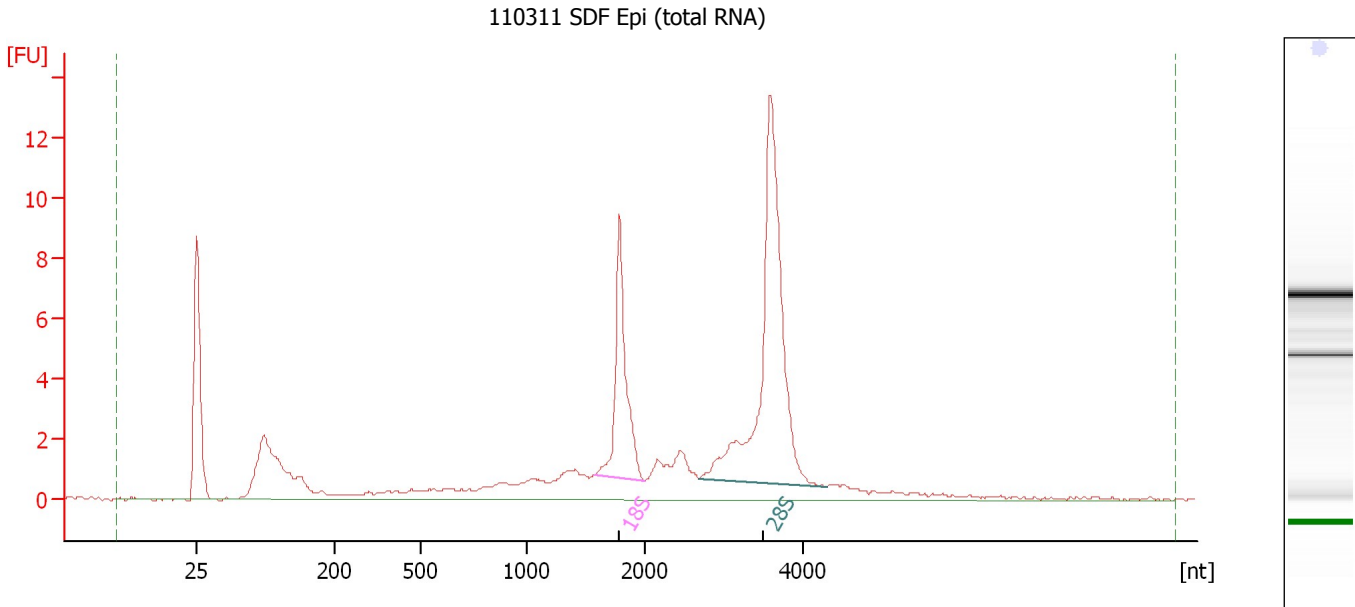
**Fragment table for sample 6 : Core Control**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	547	1,625	39.5	5.0
28S	2,280	3,087	2.1	0.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
 Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 110311 SDF Epi (total RNA)**

RNA Area:	85.4	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	75 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]:	2.5	Result Flagging Label:	RIN: 8.90

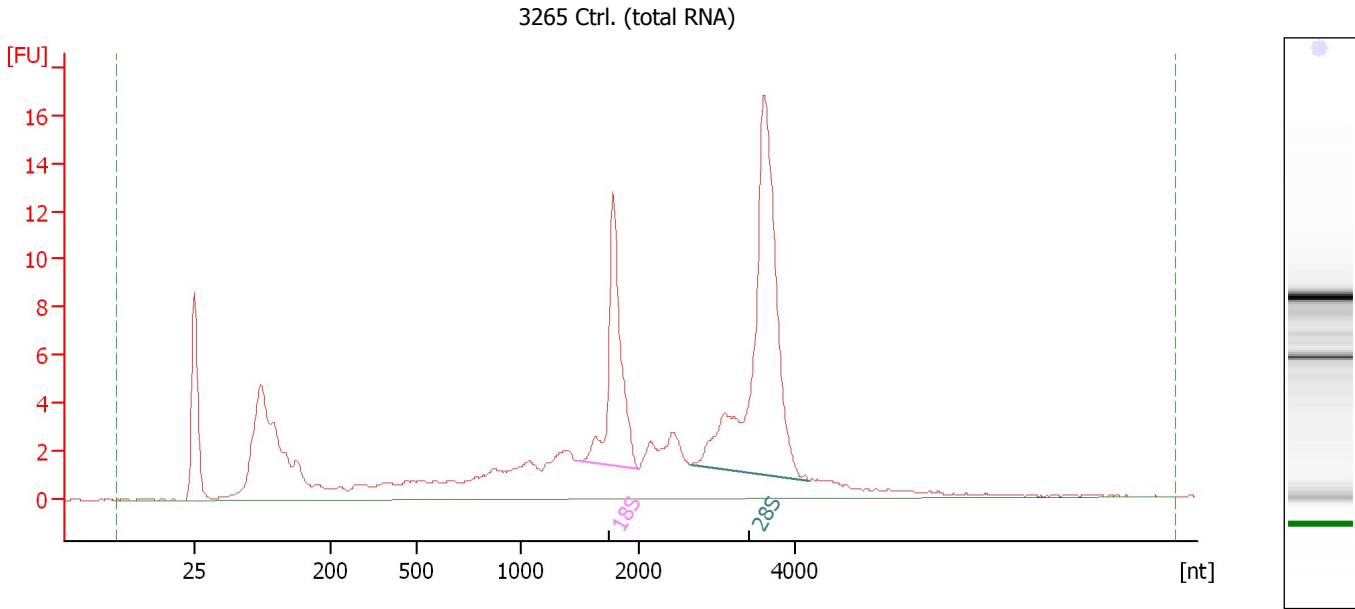
**Fragment table for sample 7 : 110311 SDF Epi (total RNA)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	2,009	10.9	12.8
28S	2,697	4,303	27.7	32.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 3265 Ctrl. (total RNA)**

RNA Area:	153.7	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	136 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]:	2.4	Result Flagging Label:	RIN: 8.40

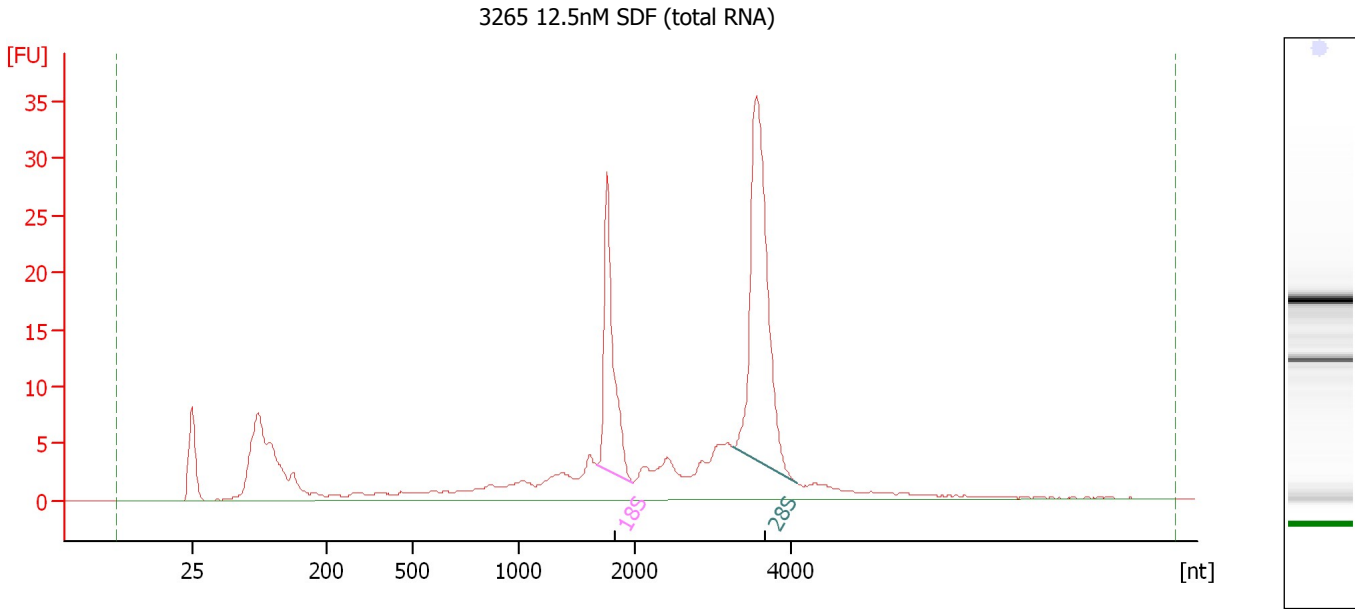
**Fragment table for sample 8 : 3265 Ctrl. (total RNA)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,489	2,005	16.7	10.9
28S	2,670	4,178	40.2	26.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 3265 12.5nM SDF (total RNA)**

RNA Area:	238.2	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	210 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]:	2.0	Result Flagging Label:	RIN: 8.40

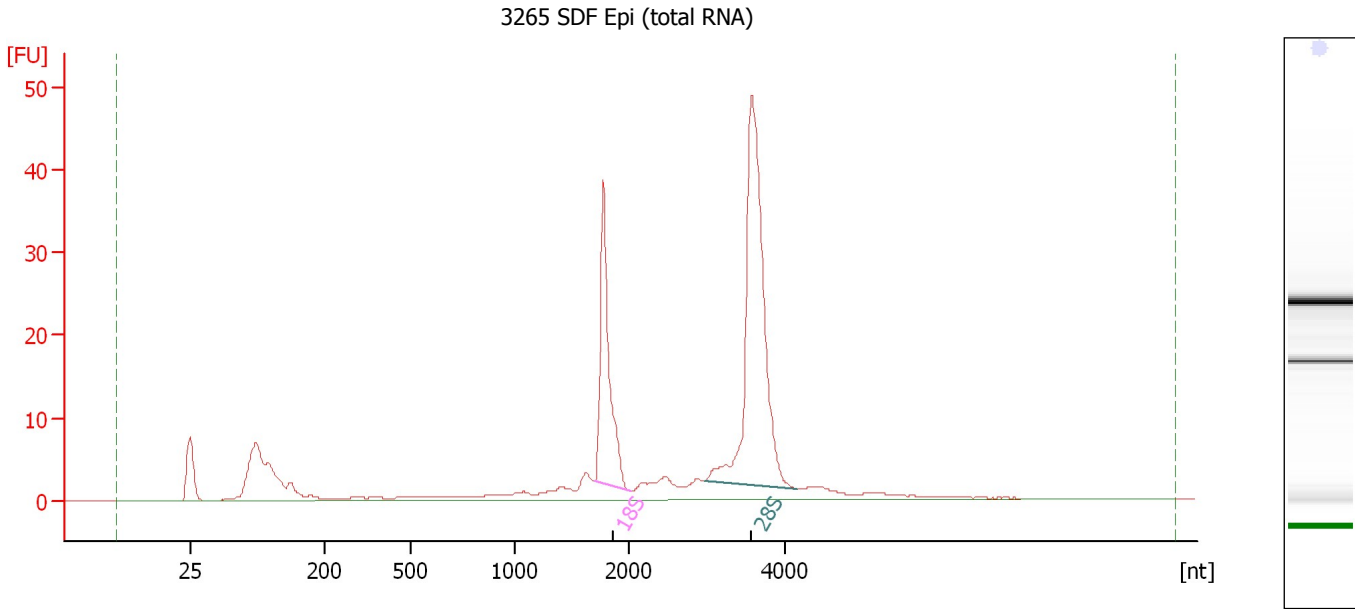
**Fragment table for sample 9 : 3265 12.5nM SDF (total RNA)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	1,983	29.9	12.5
28S	3,271	4,075	58.5	24.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 3265 SDF Epi (total RNA)**

RNA Area: 241.3                      RNA Integrity Number (RIN): 9.6 (B.02.08)  
RNA Concentration: 213 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.2              Result Flagging Label: RIN: 9.60

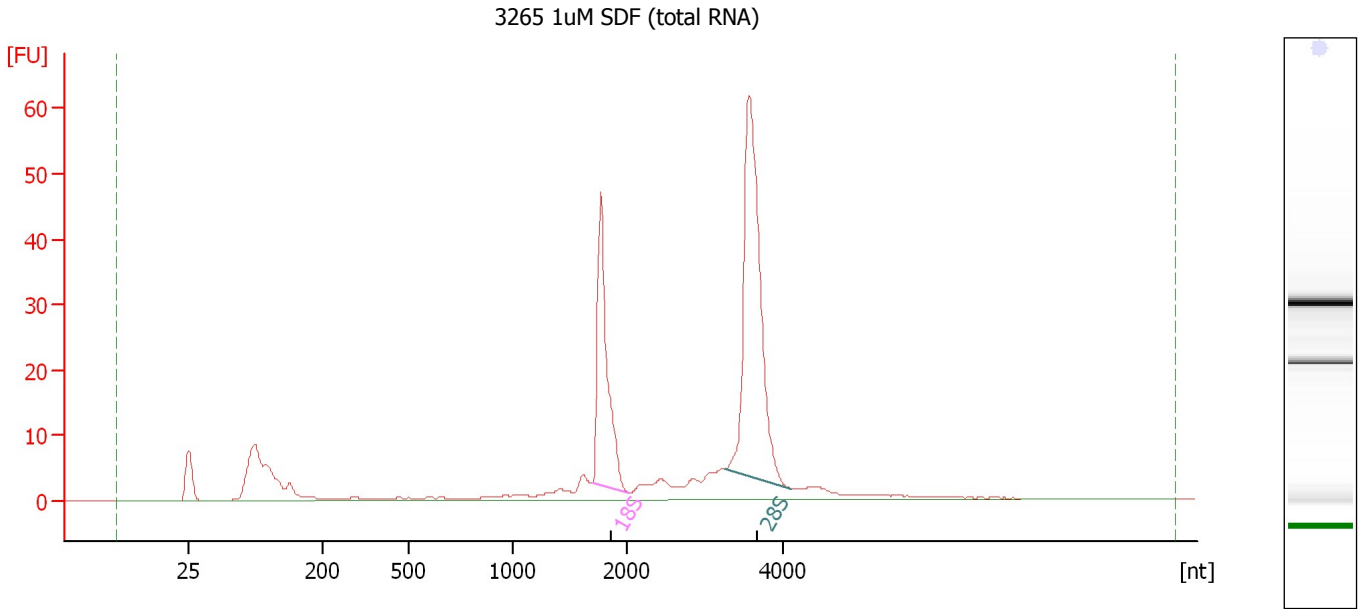
**Fragment table for sample 10 : 3265 SDF Epi (total RNA)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	2,013	40.4	16.7
28S	2,958	4,136	90.4	37.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 3265 1uM SDF (total RNA)**

RNA Area: 290.2 RNA Integrity Number (RIN): 9.7 (B.02.08)  
RNA Concentration: 256 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.70

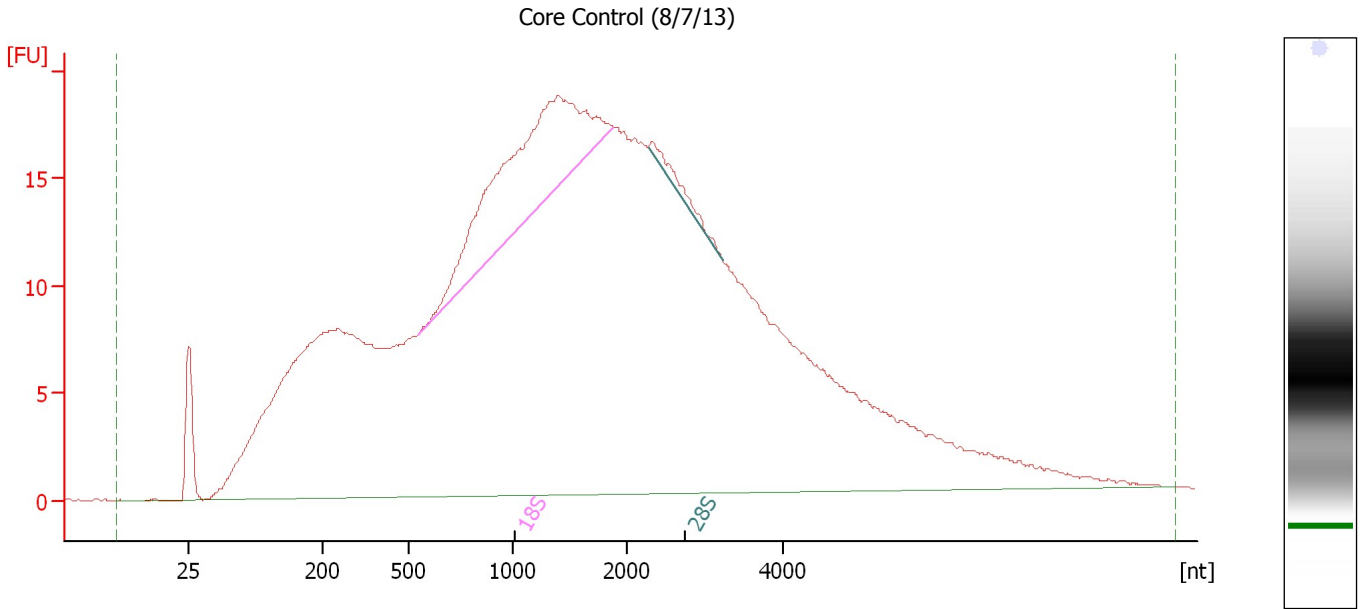
**Fragment table for sample 11 : 3265 1uM SDF (total RNA)**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,692	2,012	52.8	18.2
28S	3,247	4,085	104.5	36.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : Core Control (8/7/13)**

RNA Area: 828.4 RNA Integrity Number (RIN): 3.4 (B.02.08)  
RNA Concentration: 731 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.1 Result Flagging Label: RIN: 3.40

**Fragment table for sample 12 : Core Control (8/7/13)**

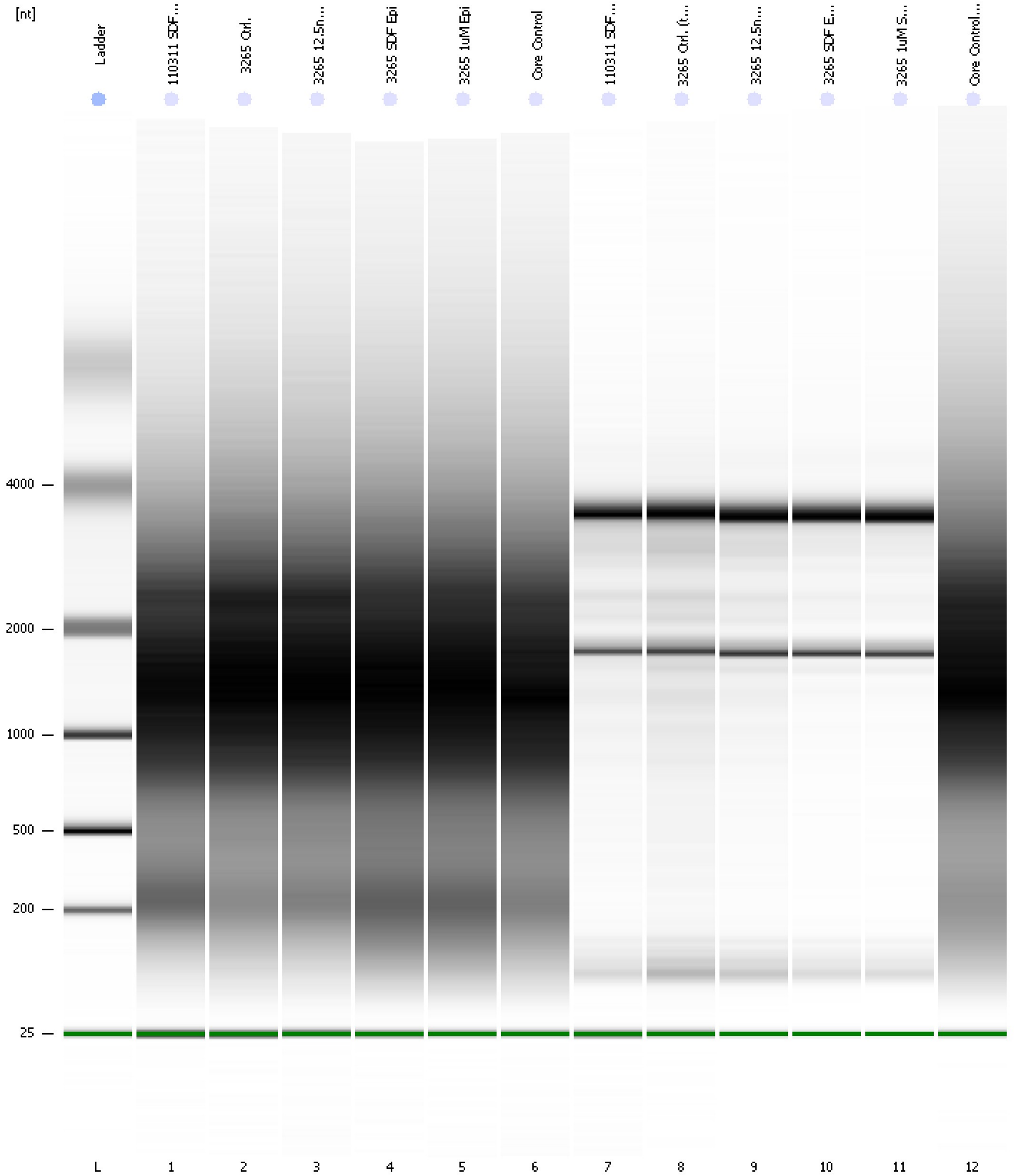
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	548	1,878	57.6	7.0
28S	2,259	3,220	3.4	0.4



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
Modified: 8/9/2013 12:45:07 PM

**Gel Image**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-09\2013-08-09\_005.xad

Created: 8/9/2013 12:22:08 PM  
 Modified: 8/9/2013 12:45:07 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		8/9/2013 12:45:04 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-09\2013-08-09_005.xad)		Instrument	Run		8/9/2013 12:22:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/9/2013 12:22:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/9/2013 12:22:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/9/2013 12:22:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/9/2013 12:22:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/9/2013 12:22:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/9/2013 12:22:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1