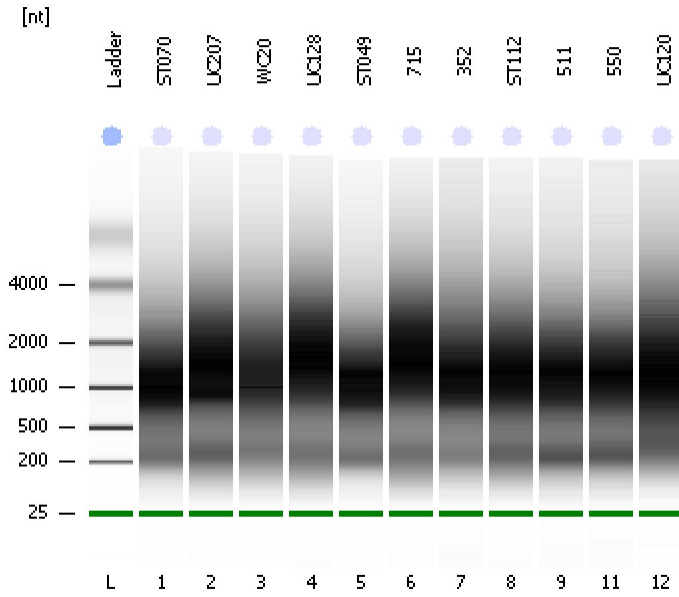


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
Modified: 5/21/2016 2:10:14 PM

**Electrophoresis File Run Summary**



Instrument Information:

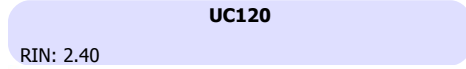
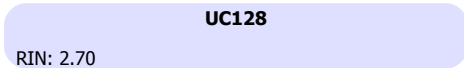
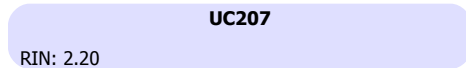
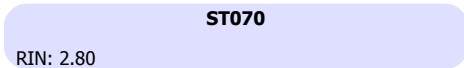
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
ST070		✓	RIN: 2.80	
UC207		✓	RIN: 2.20	
WC20		✓	RIN: 2.70	
UC128		✓	RIN: 2.70	
ST049		✓	RIN: 2.20	
715		✓	RIN: 2.80	
352		✓	RIN: 2.30	
ST112		✓	RIN: 2.20	
511		✓	RIN: 7.70	
550		✓	RIN: 7.40	
UC120		✓	RIN: 2.40	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
Modified: 5/21/2016 2:10:14 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

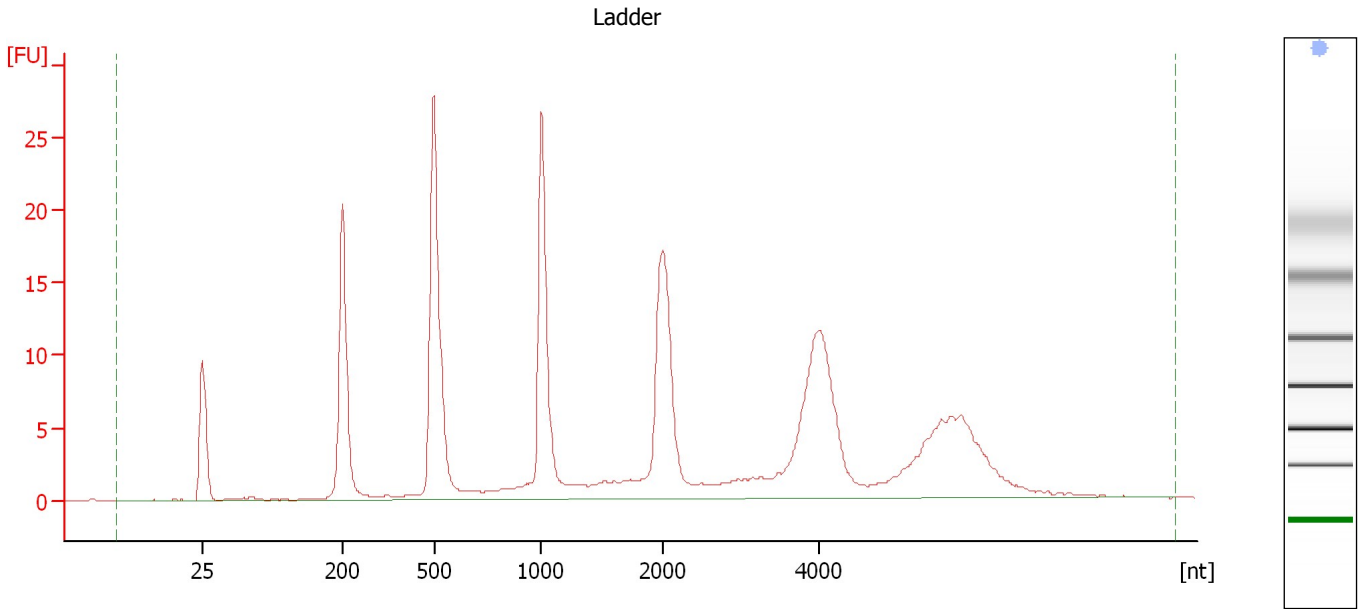
### Ladder

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary**



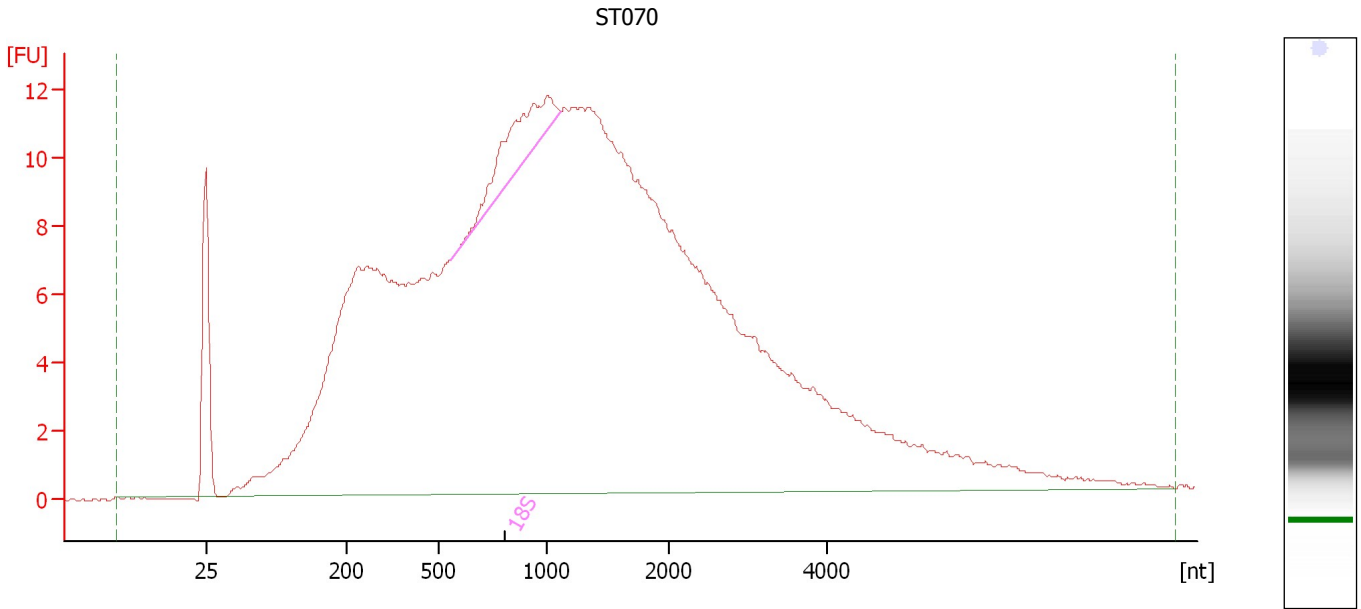
**Overall Results for Ladder**

RNA Area:	244.3	Result Flagging Color:	<span style="background-color: #6699ff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	150 ng/ $\mu$ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : ST070**

RNA Area:	479.3	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	294 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: 2.80

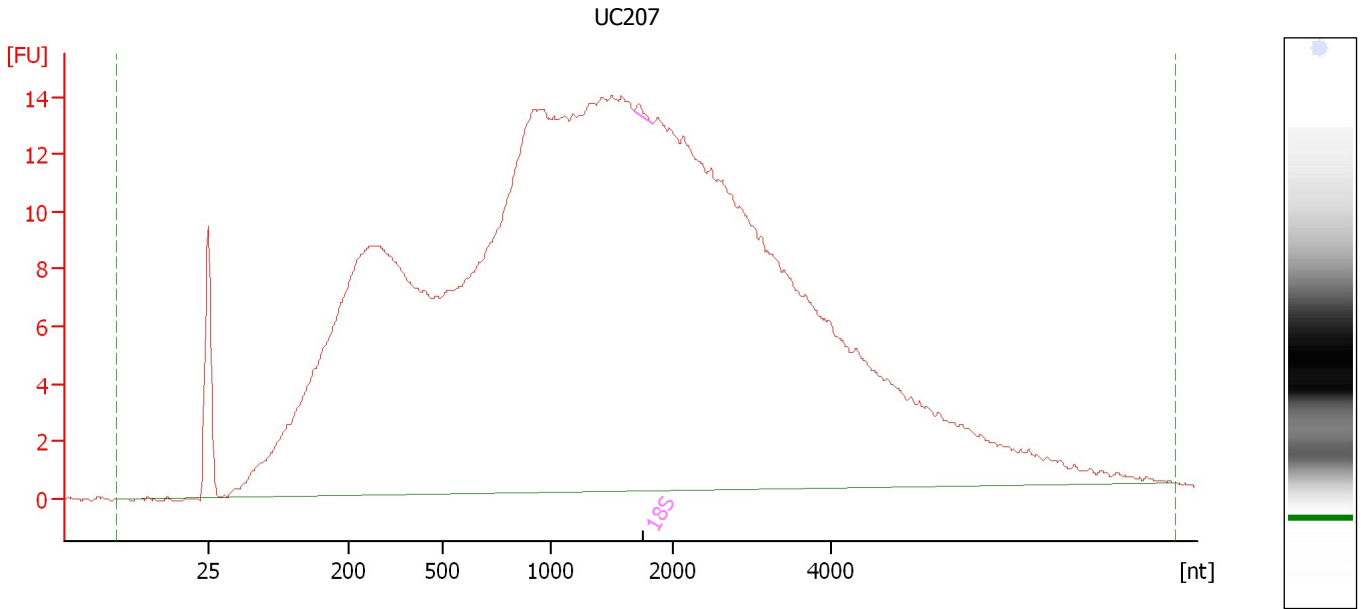
**Fragment table for sample 1 : ST070**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	557	1,114	10.3	2.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : UC207**

RNA Area:	664.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	408 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: 2.20

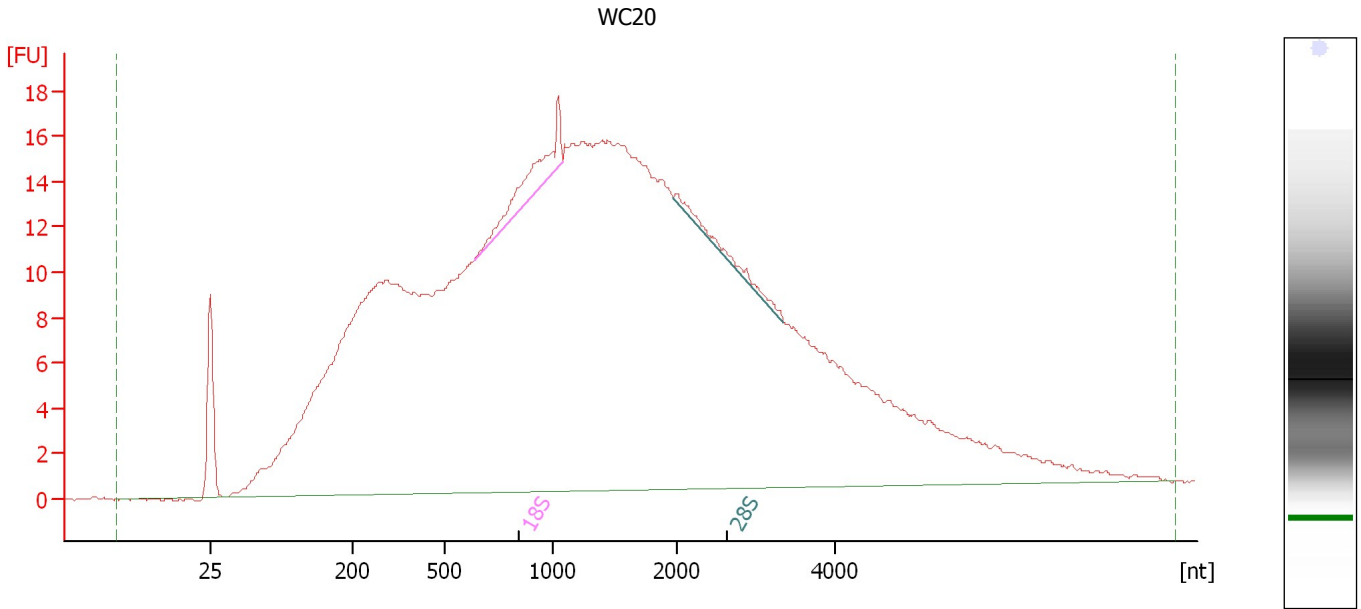
**Fragment table for sample 2 : UC207**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	1,837	0.3	0.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : WC20**

RNA Area:	732.9	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	450 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]:	0.2	Result Flagging Label:	RIN: 2.70

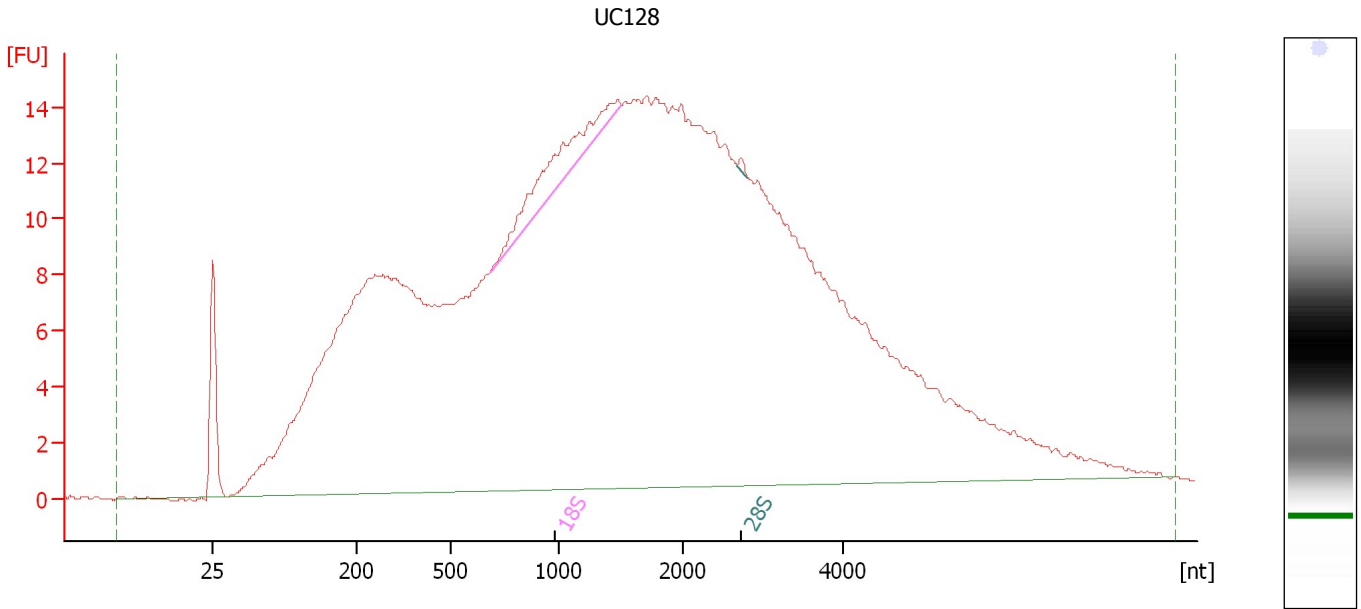
**Fragment table for sample 3 : WC20**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	631	1,080	8.8	1.2
28S	1,979	3,348	2.2	0.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : UC128**

RNA Area:	677.6	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	416 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 : UC128**

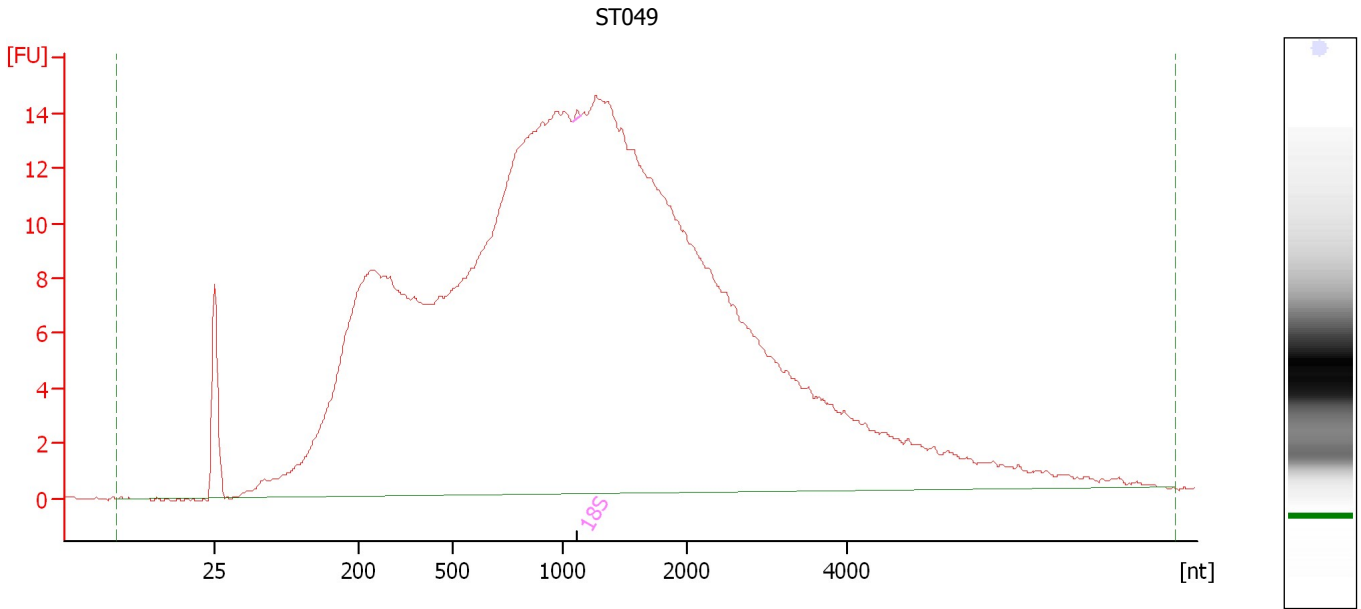
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	683	1,504	11.3	1.7
28S	2,690	2,810	0.2	0.0



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : ST049**

RNA Area:	565.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	347 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: 2.20

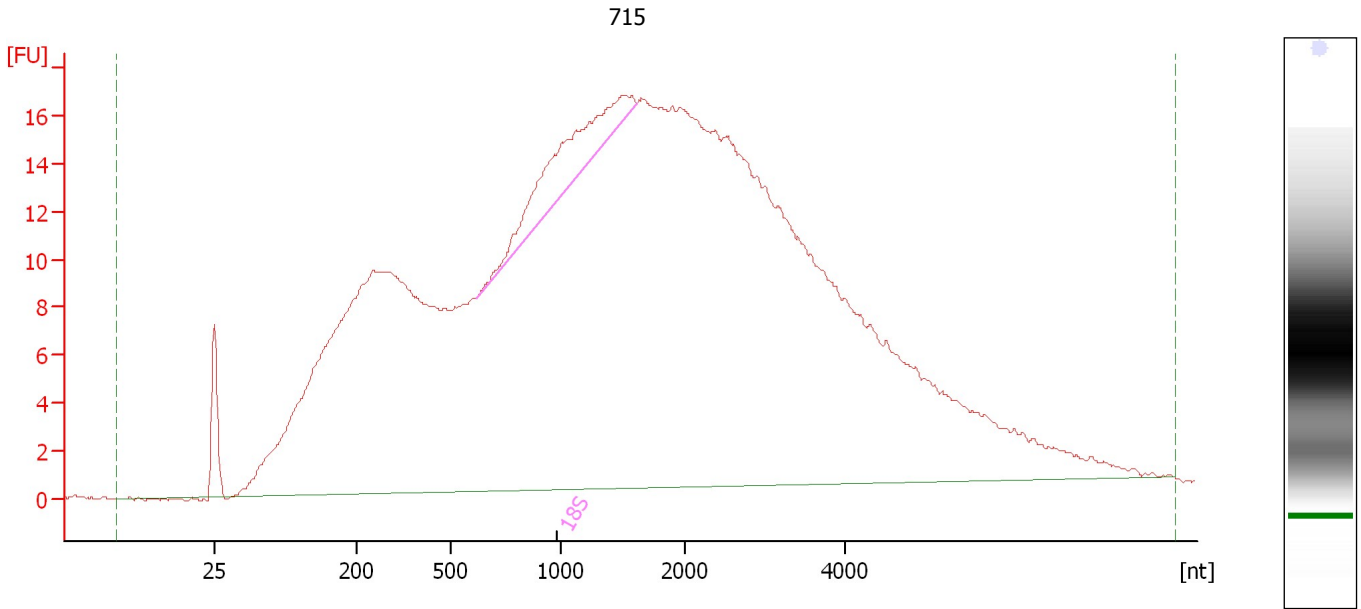
**Fragment table for sample 5 : ST049**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,078	1,149	0.1	0.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 715**

RNA Area:	795.6	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	488 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: 2.80

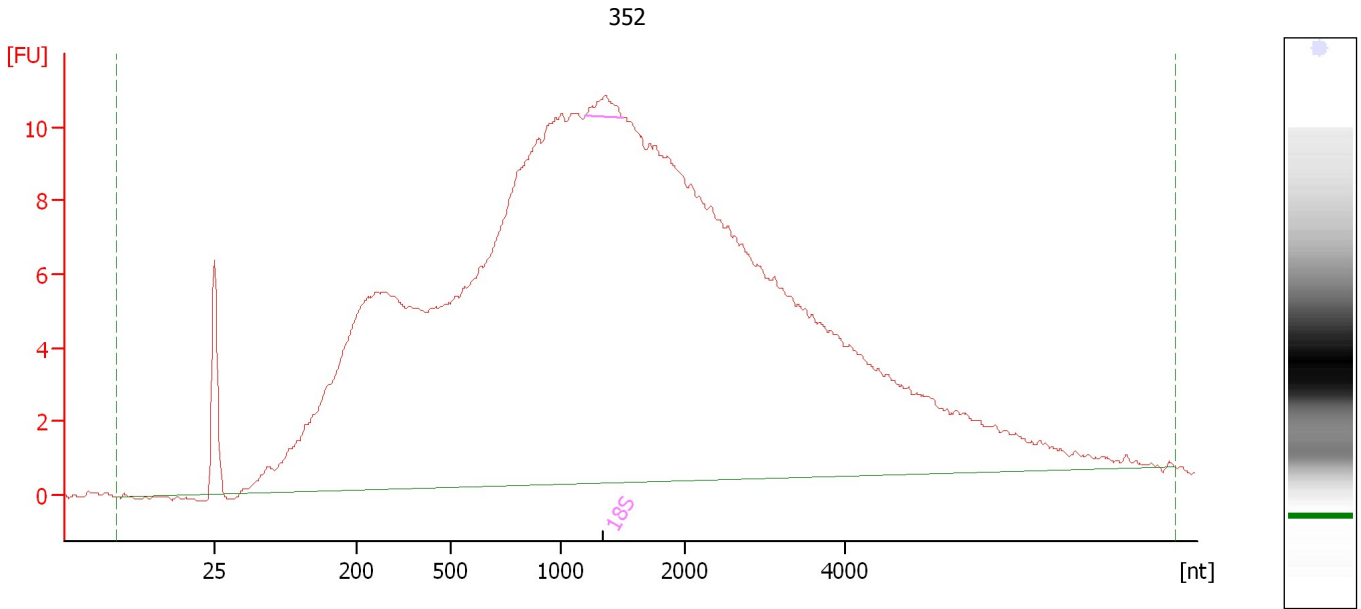
**Fragment table for sample 6 : 715**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	616	1,618	21.9	2.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 352**

RNA Area:	451.6	RNA Integrity Number (RIN):	2.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	277 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: 2.30

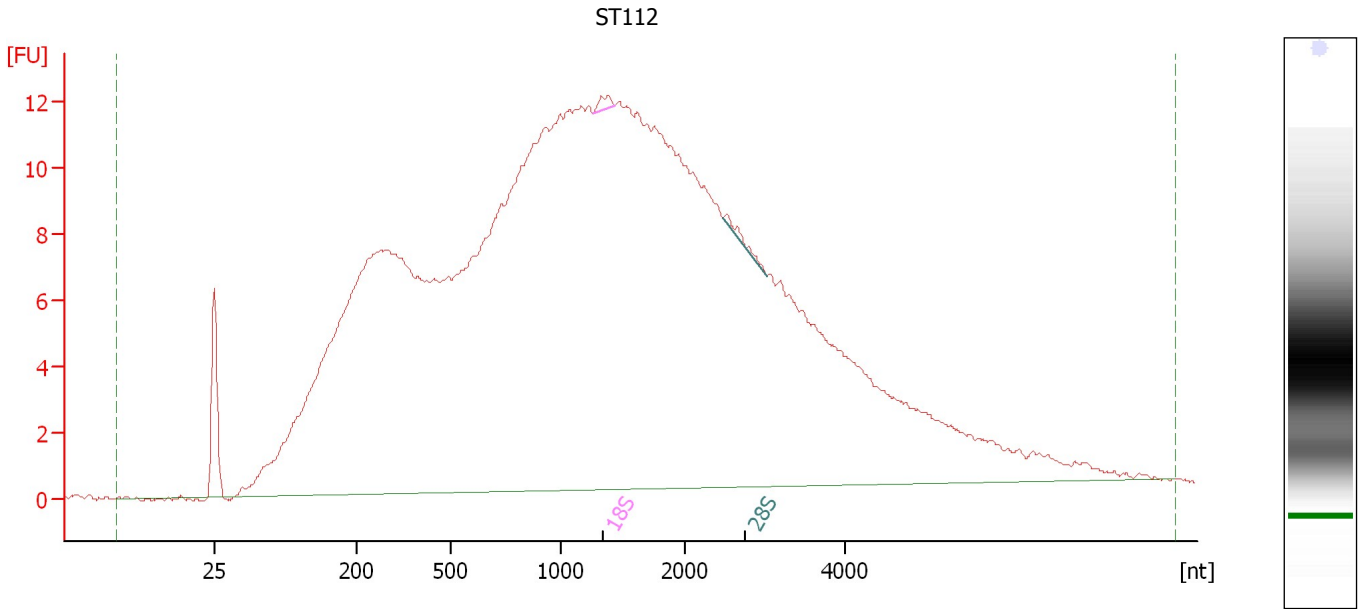
**Fragment table for sample 7 : 352**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,195	1,506	1.3	0.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : ST112**

RNA Area:	550.4	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	338 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]:	1.0	Result Flagging Label:	RIN: 2.20

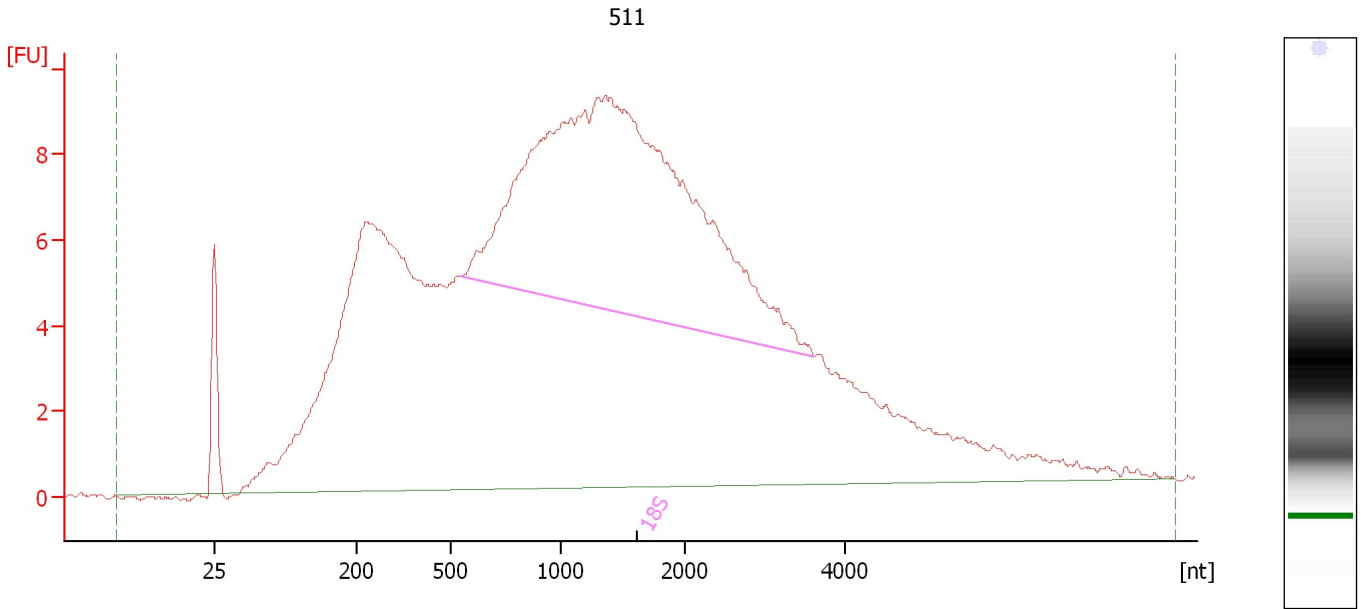
**Fragment table for sample 8 : ST112**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,264	1,437	0.6	0.1
28S	2,491	3,022	0.6	0.1

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 511**

RNA Area:	401.0	RNA Integrity Number (RIN):	7.7 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	246 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: 7.70

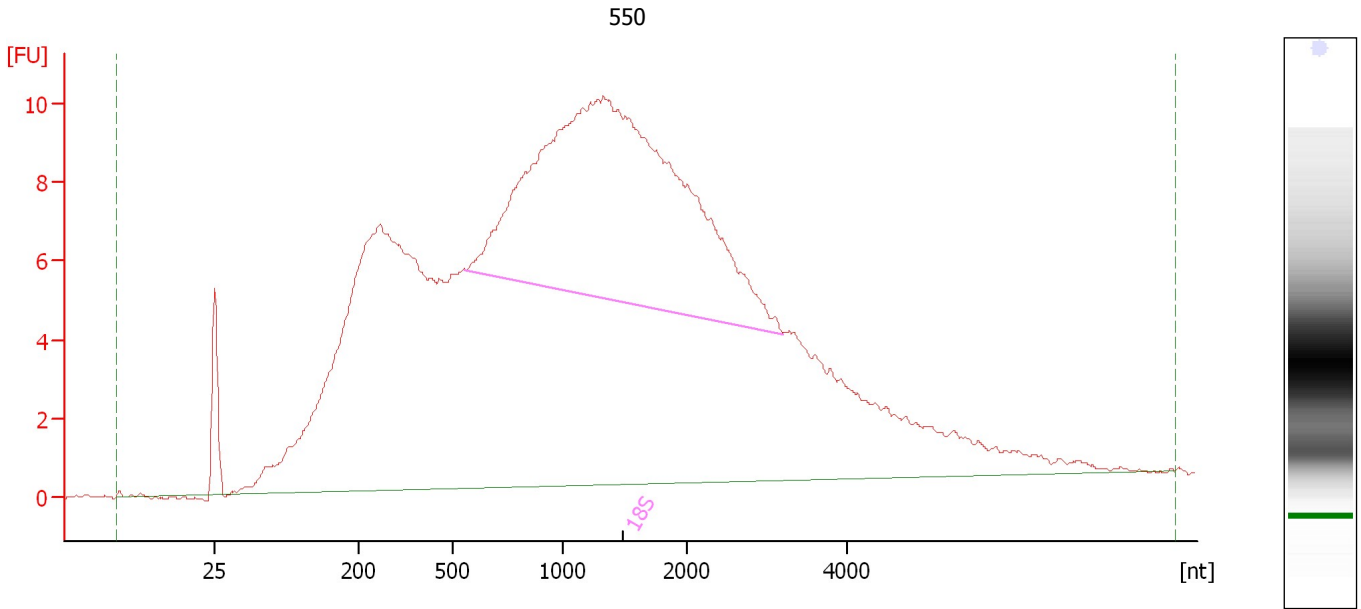
**Fragment table for sample 9 : 511**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	543	3,607	103.4	25.8

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 550**

RNA Area:	424.1	RNA Integrity Number (RIN):	7.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	260 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: 7.40

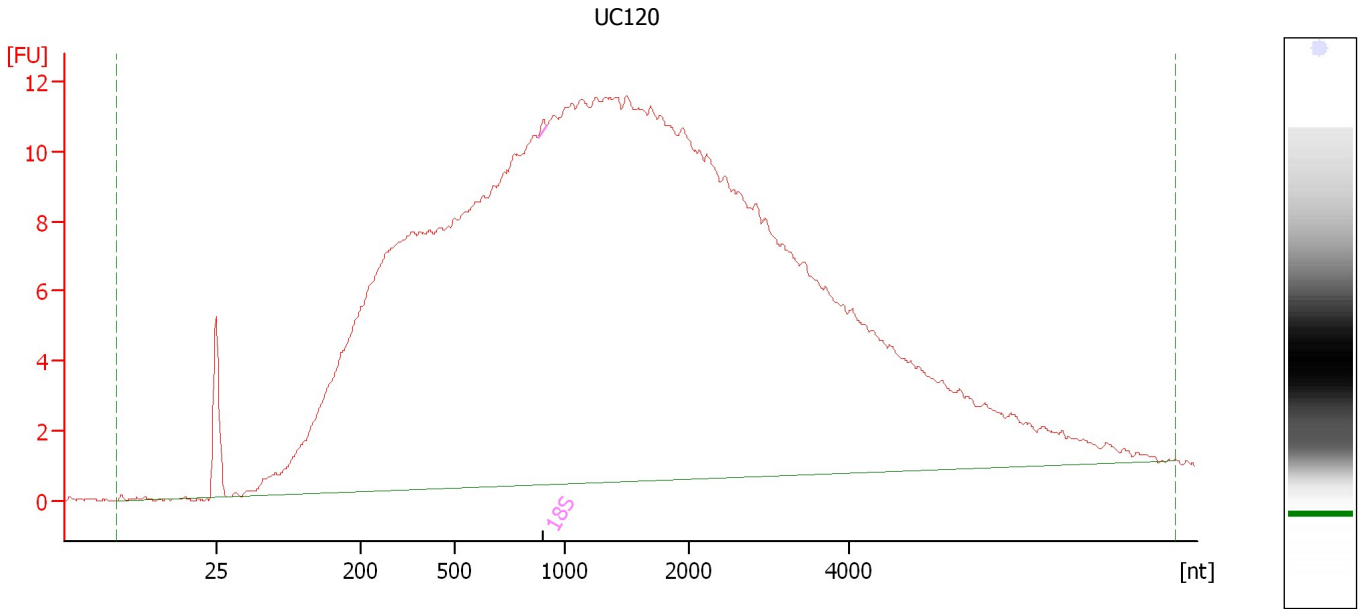
**Fragment table for sample 11 : 550**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	555	3,194	98.6	23.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
 Modified: 5/21/2016 2:10:14 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : UC120**

RNA Area:	545.4	RNA Integrity Number (RIN):	2.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	335 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: 2.40

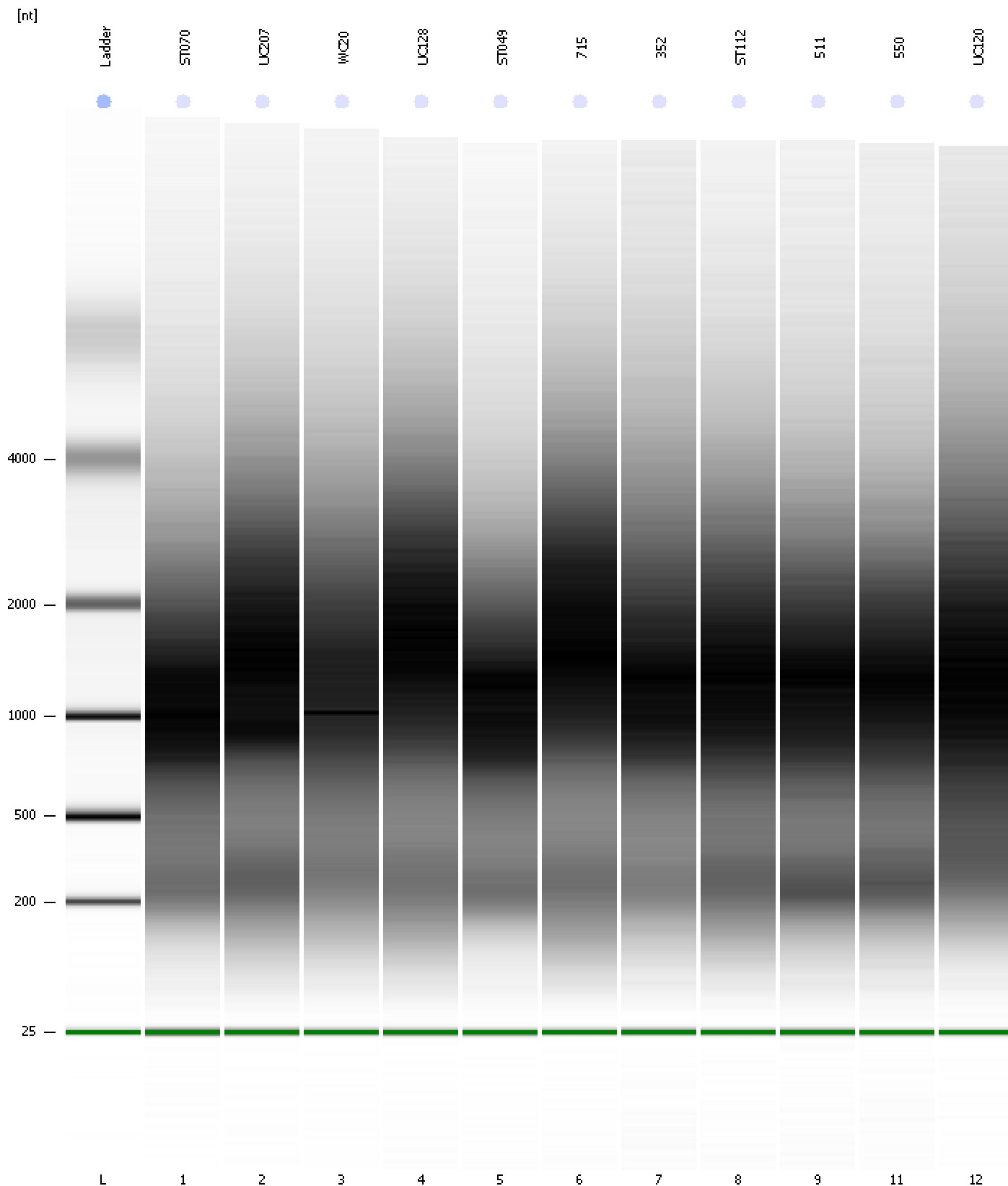
**Fragment table for sample 12 : UC120**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	879	921	0.2	0.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad

Created: 5/21/2016 1:23:45 PM  
Modified: 5/21/2016 2:10:14 PM

**Gel Image**





Assay Class: Eukaryote Total RNA Nano Created: 5/21/2016 1:23:45 PM  
 Data Path: C:\...00 expert\data\2016-05-21\2016-05-21\_002\_cRNAQC\_chip7\_8.xad Modified: 5/21/2016 2:10:14 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		5/21/2016 1:46:49 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\2016-05-21\2016-05-21_002.xad)		Instrument	Run		5/21/2016 1:23:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/21/2016 1:23:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/21/2016 1:23:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/21/2016 1:23:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/21/2016 1:23:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/21/2016 1:23:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/21/2016 1:23:51 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1