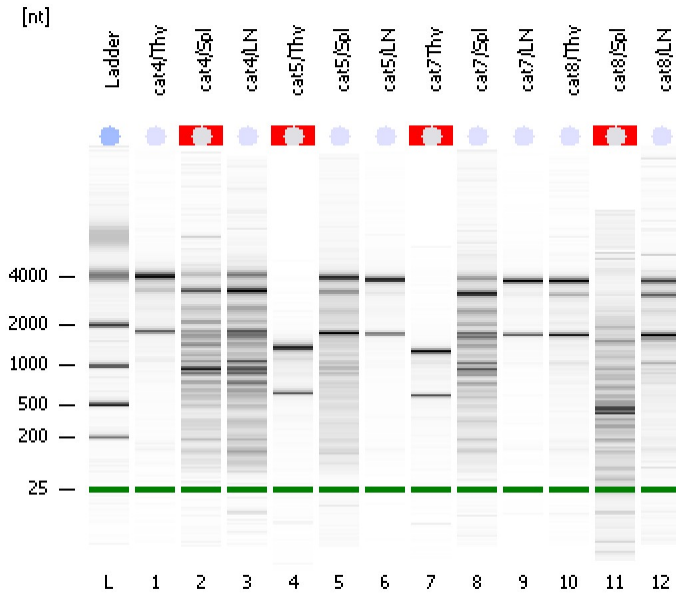


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 PM

Electrophoresis File Run Summary



Instrument Information:

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

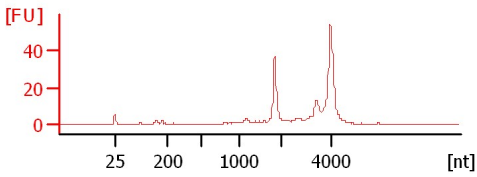
Assay Information:

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.

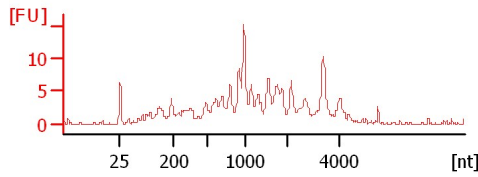
Chip Information:

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

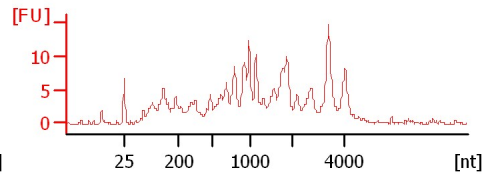
cat4/Thy RIN:9



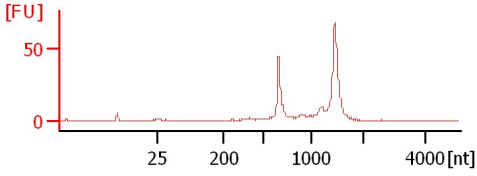
cat4/Spl RIN N/A



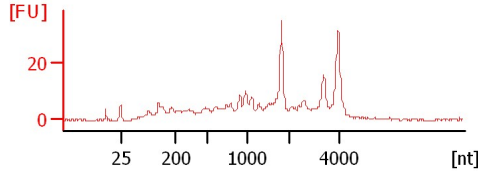
cat4/LN RIN: 4.60



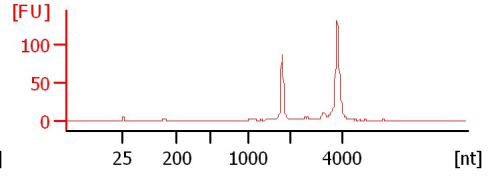
cat5/Thy RIN N/A



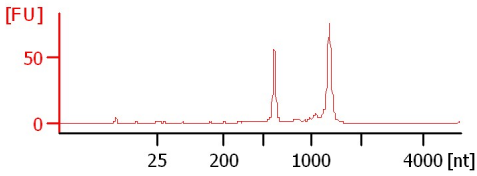
cat5/Spl RIN: 6.30



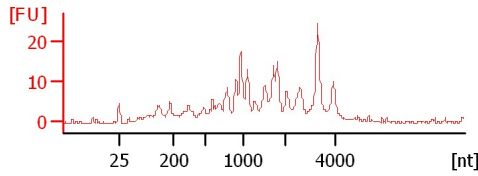
cat5/LN RIN: 9.50



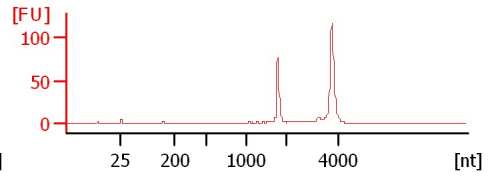
cat7Thy RIN N/A



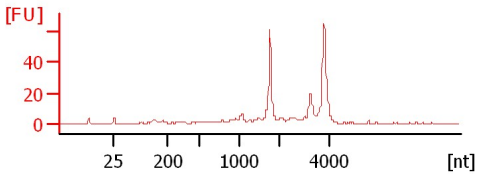
cat7/Spl RIN: 4.50



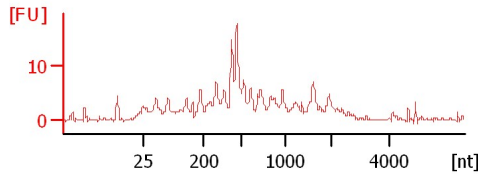
cat7/LN RIN: 9.80



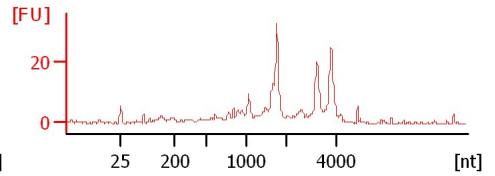
cat8/Thy RIN: 8.10



cat8/Spl RIN N/A



cat8/LN RIN: 7.10



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
 Modified: 9/25/2014 3:56:41 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
cat4/Thy		✓	RIN:9	
cat4/Spl		✓	RIN N/A	
cat4/LN		✓	RIN: 4.60	
cat5/Thy		✓	RIN N/A	
cat5/Spl		✓	RIN: 6.30	
cat5/LN		✓	RIN: 9.50	
cat7Thy		✓	RIN N/A	
cat7/Spl		✓	RIN: 4.50	
cat7/LN		✓	RIN: 9.80	
cat8/Thy		✓	RIN: 8.10	
cat8/Spl		✓	RIN N/A	
cat8/LN		✓	RIN: 7.10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 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

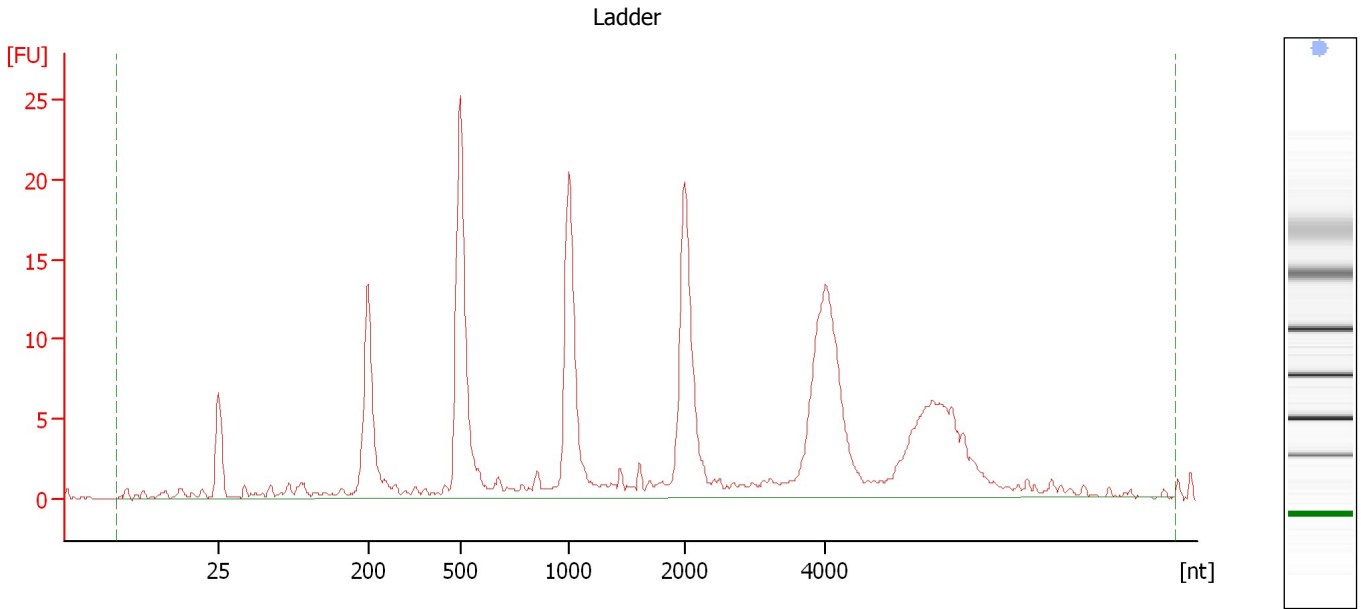
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary**



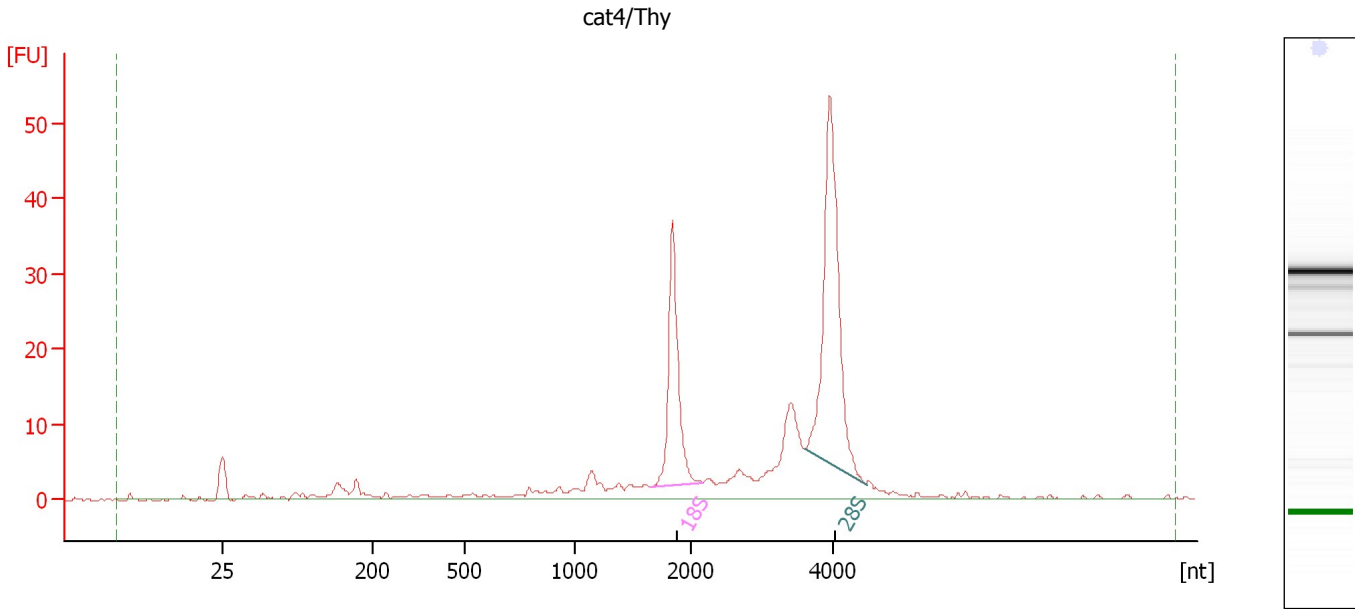
**Overall Results for Ladder**

RNA Area:	223.8	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\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : cat4/Thy**

RNA Area:	247.1	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	166 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]:	1.9	Result Flagging Label:	RIN:9

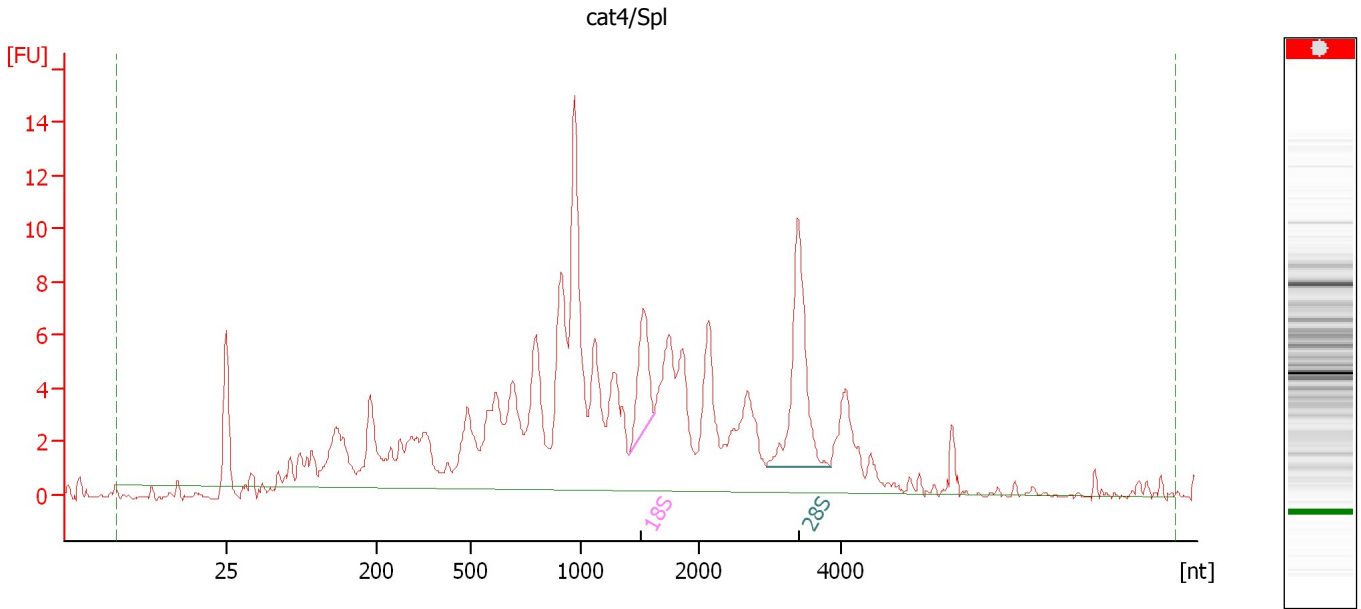
**Fragment table for sample 1 : cat4/Thy**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	2,185	39.3	15.9
28S	3,600	4,474	74.0	29.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
 Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : cat4/Spl**

RNA Area:	189.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	127 ng/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]:	2.3	Result Flagging Label:	RIN N/A

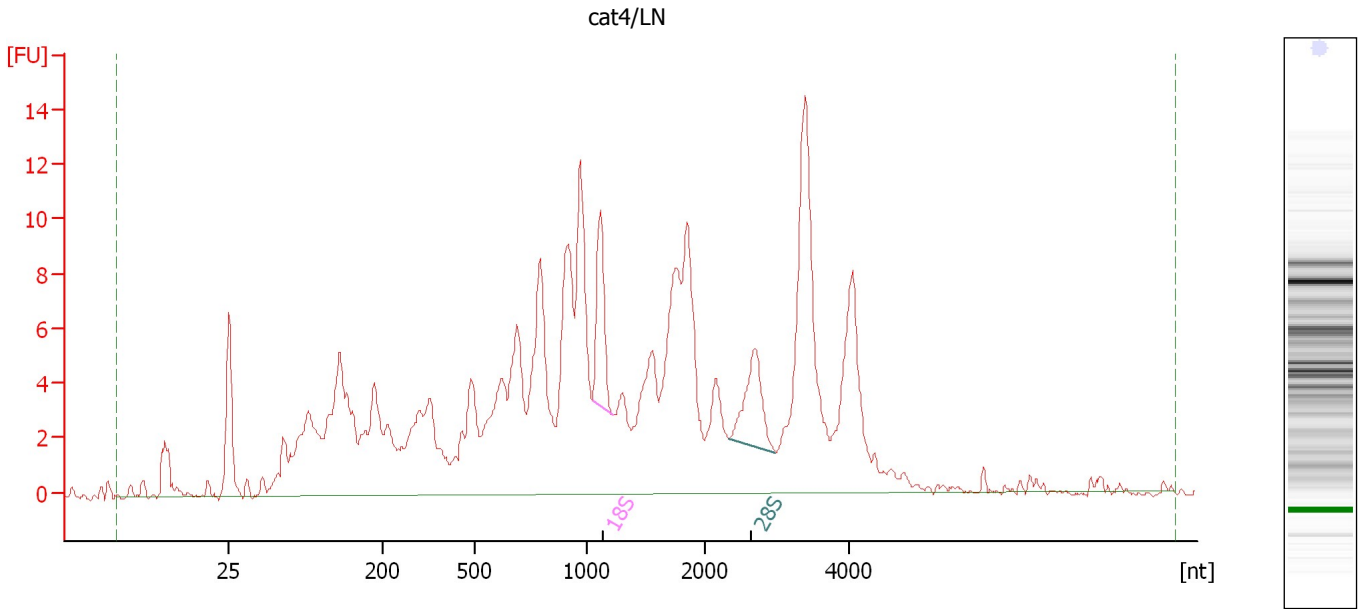
**Fragment table for sample 2 : cat4/Spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,404	1,623	5.8	3.0
28S	2,951	3,847	13.0	6.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : cat4/LN**

RNA Area: 278.1                      RNA Integrity Number (RIN): 4.6 (B.02.08)  
RNA Concentration: 186 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0                      Result Flagging Label: RIN: 4.60

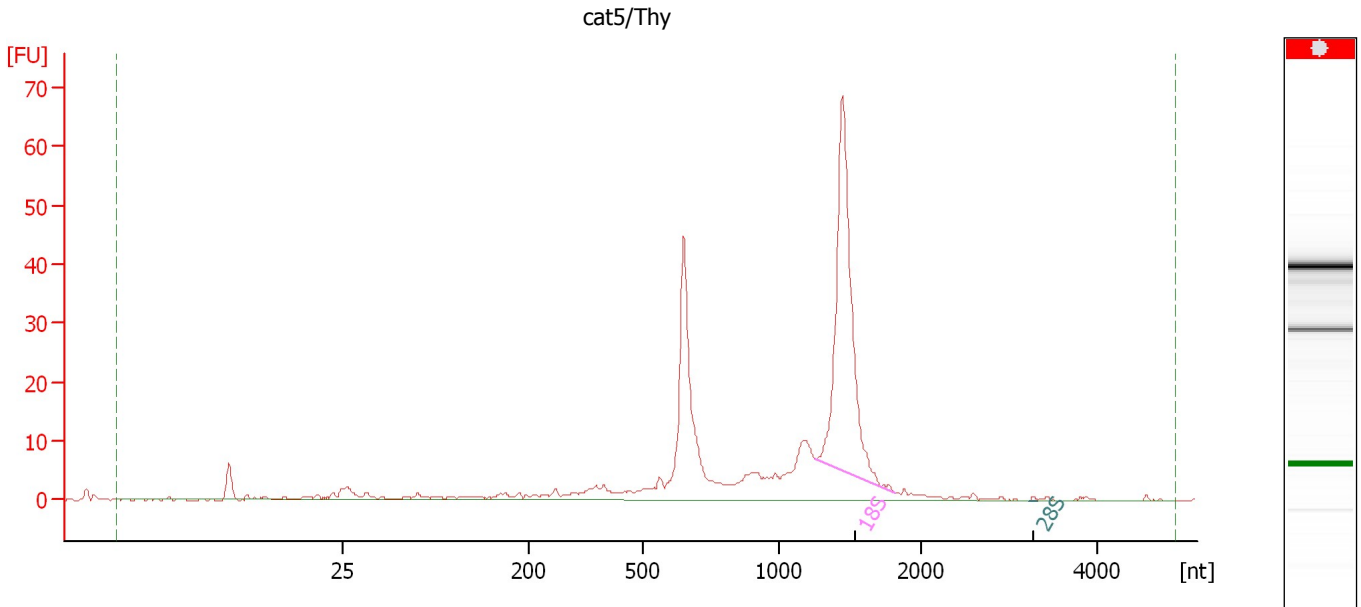
**Fragment table for sample 3 : cat4/LN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,047	1,228	6.6	2.4
28S	2,326	2,979	6.4	2.3

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
 Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : cat5/Thy**

RNA Area:	286.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	192 ng/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 4 : cat5/Thy**

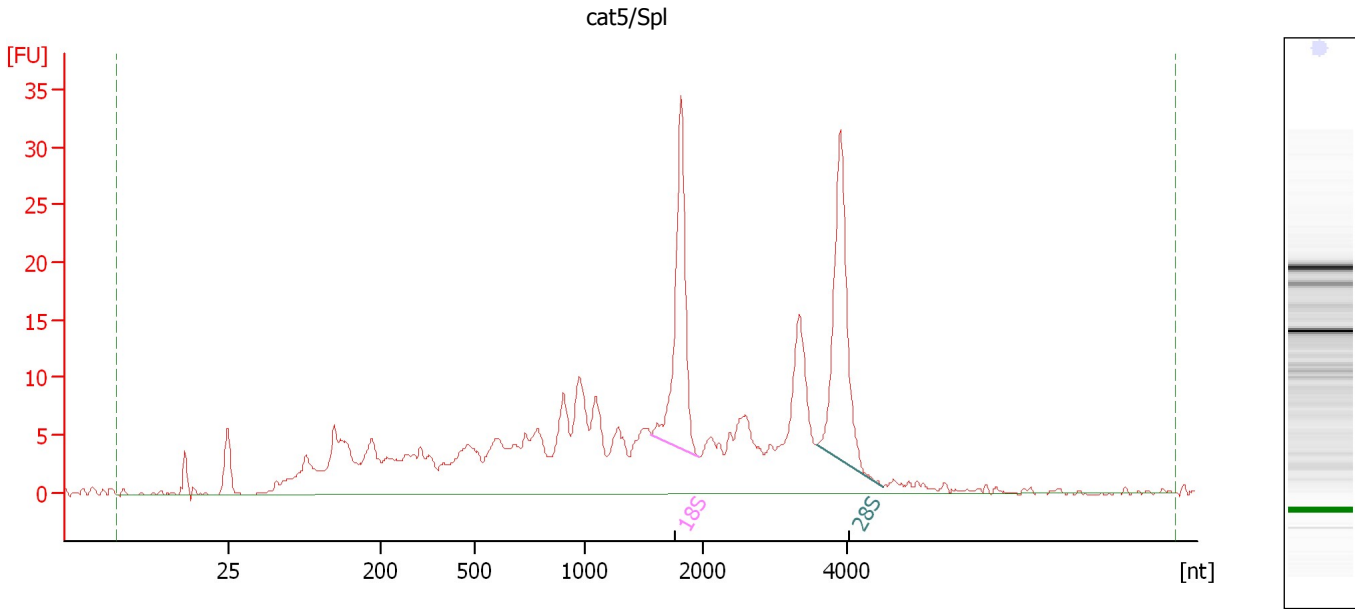
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,260	1,812	98.1	34.2
28S	3,230	3,328	0.3	0.1



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : cat5/Spl**

RNA Area: 374.6                      RNA Integrity Number (RIN): 6.3 (B.02.08)  
RNA Concentration: 251 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1                      Result Flagging Label: RIN: 6.30

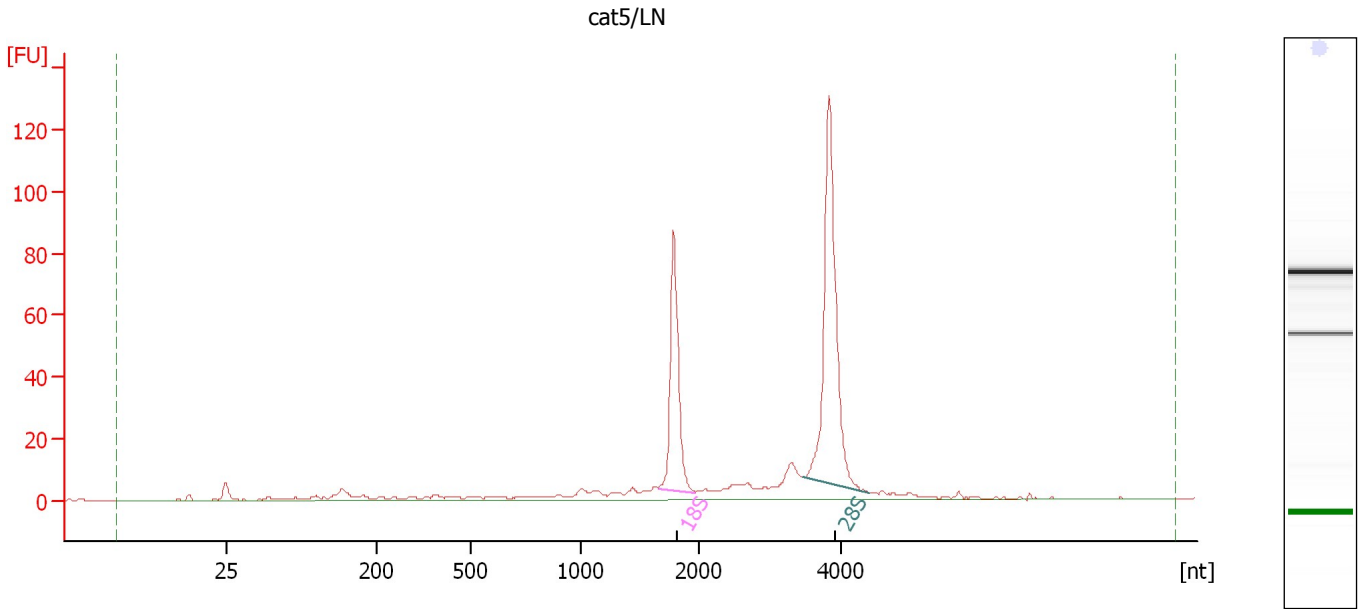
**Fragment table for sample 5 : cat5/Spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,562	1,962	36.0	9.6
28S	3,590	4,497	38.2	10.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : cat5/LN**

RNA Area:	398.3	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	267 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]:	1.9	Result Flagging Label:	RIN: 9.50

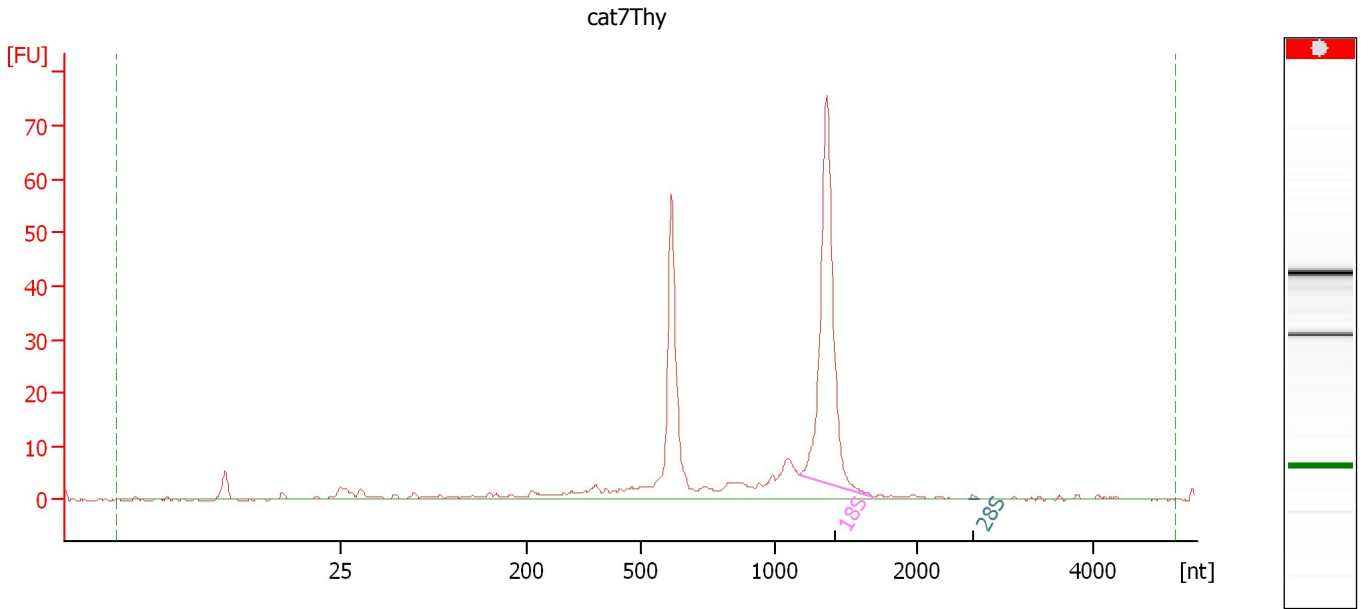
**Fragment table for sample 6 : cat5/LN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	1,969	77.6	19.5
28S	3,459	4,385	151.3	38.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
 Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : cat7Thy**

RNA Area:	259.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	174 ng/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

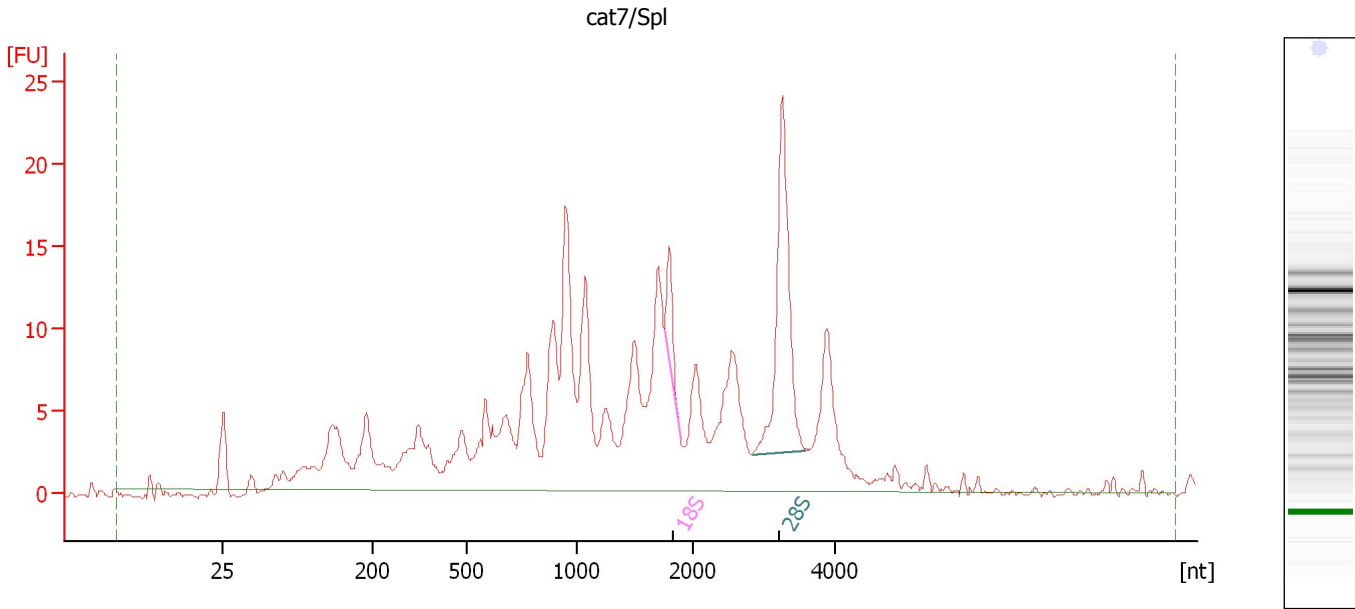
**Fragment table for sample 7 : cat7Thy**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,173	1,682	93.8	36.2
28S	2,595	2,693	0.4	0.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
 Modified: 9/25/2014 3:56:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : cat7/Spl**

RNA Area:	306.1	RNA Integrity Number (RIN):	4.5 (B.02.08)
RNA Concentration:	205 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]:	5.2	Result Flagging Label:	RIN: 4.50

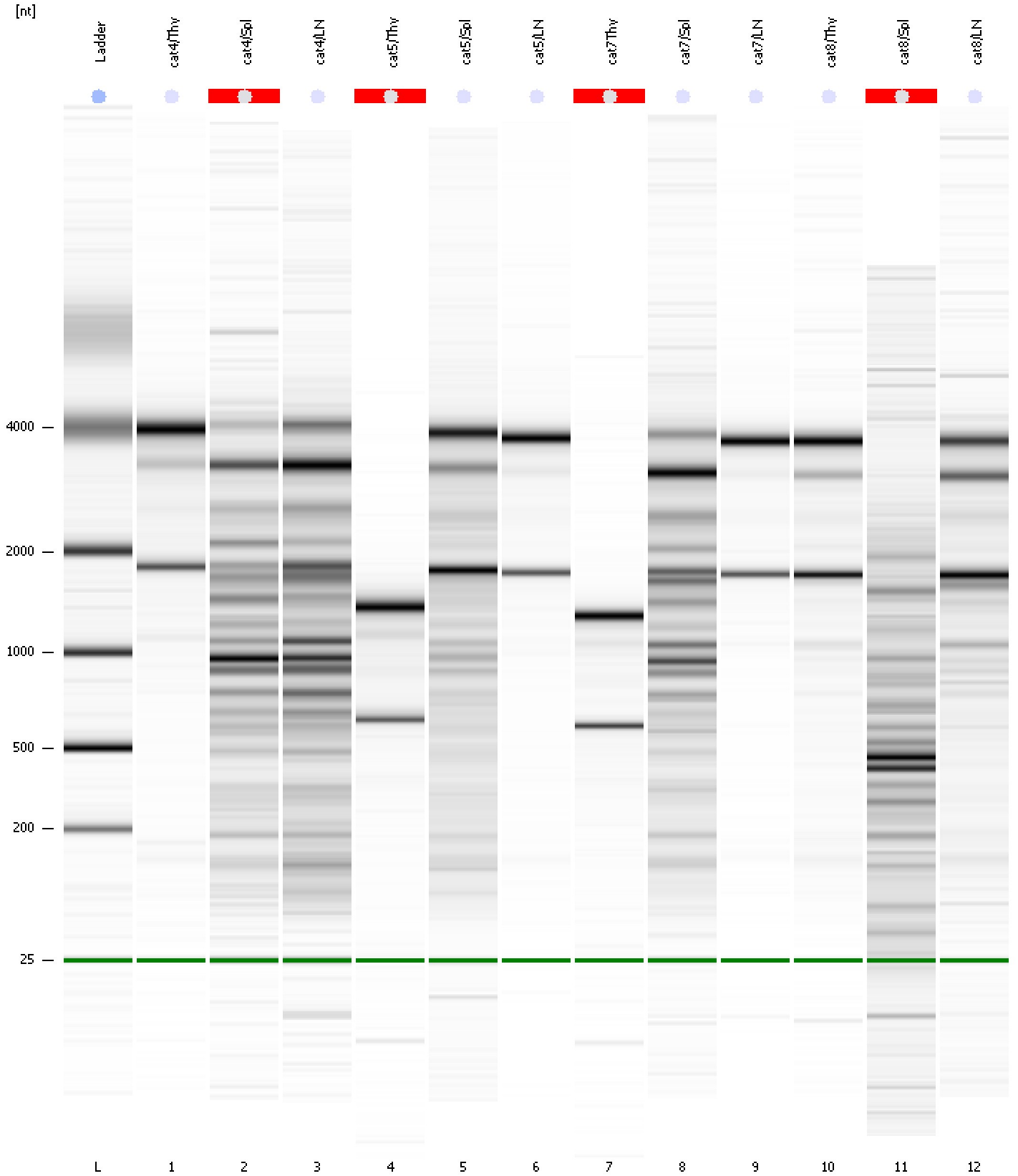
**Fragment table for sample 8 : cat7/Spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,755	1,893	5.3	1.7
28S	2,847	3,568	27.5	9.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 PM

**Gel Image**

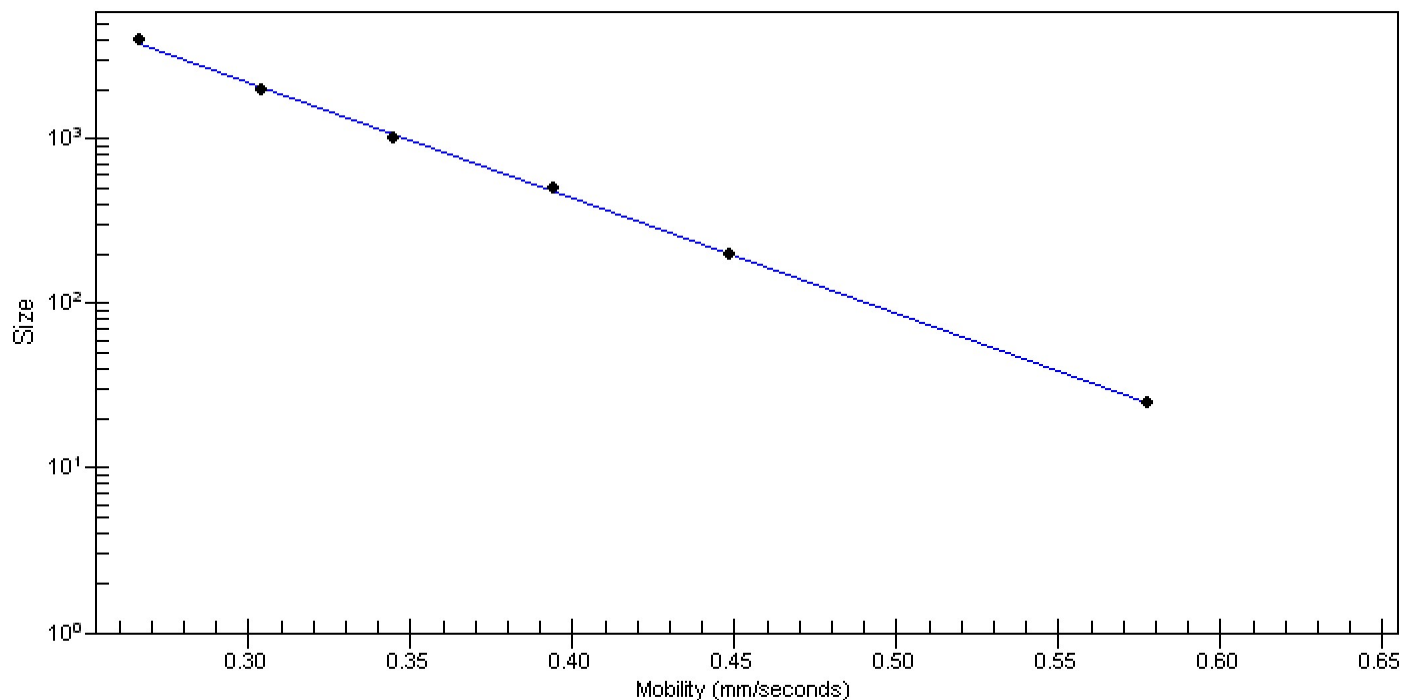


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
Modified: 9/25/2014 3:56:41 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-09-25\2014-09-25\_009.xad

Created: 9/25/2014 3:27:41 PM  
 Modified: 9/25/2014 3:56:41 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		9/25/2014 3:51:36 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-09-25\2014-09-25_009.xad)		Instrument	Run		9/25/2014 3:27:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		9/25/2014 3:27:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/25/2014 3:27:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/25/2014 3:27:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		9/25/2014 3:27:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/25/2014 3:27:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/25/2014 3:27:47 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1