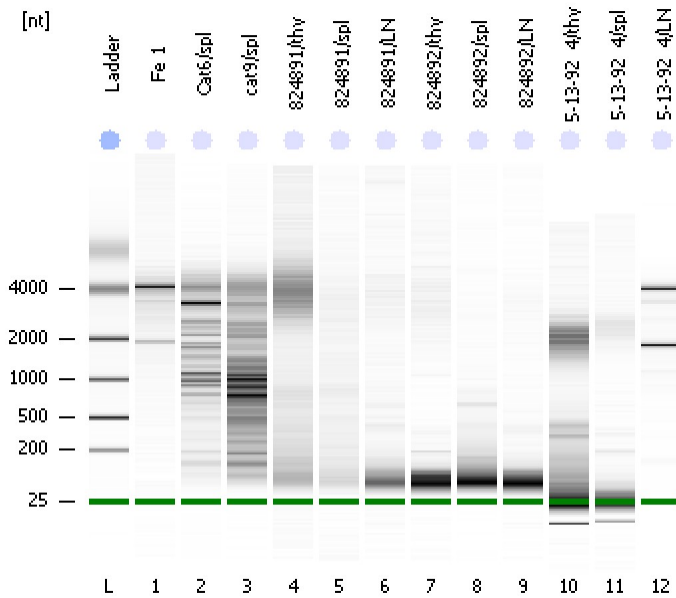


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 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

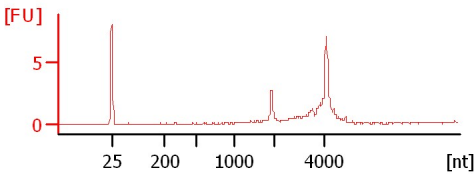
Assay Class: Eukaryote Total RNA Nano  
Version: 2.6  
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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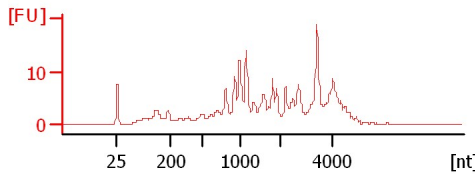
Chip Information:

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

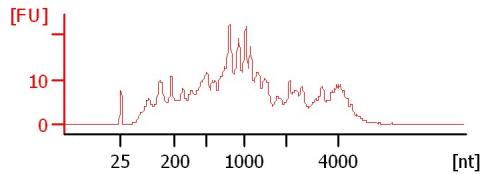
**Fe 1**  
RIN: 8.60



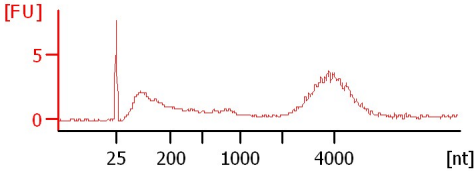
**Cat6/spl**  
RIN: 4.30



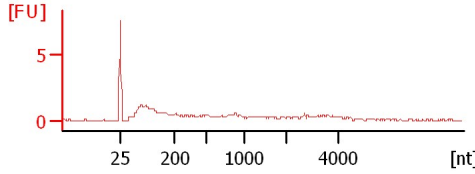
**cat9/spl**  
RIN: 2.60



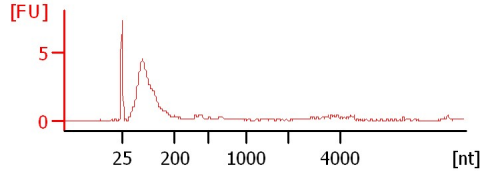
**824891/thy**  
RIN: 2.60



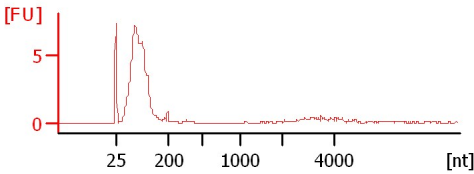
**824891/spl**  
RIN: 1.60



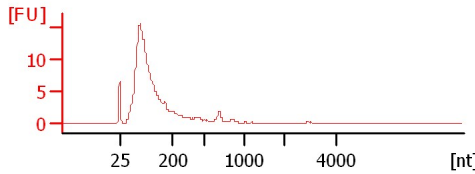
**824891/LN**  
RIN: 2.60



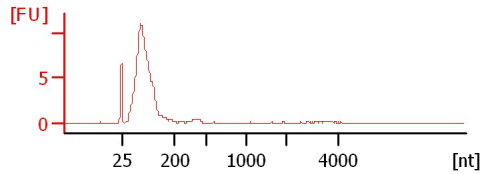
**824892/thy**  
RIN: 2.60



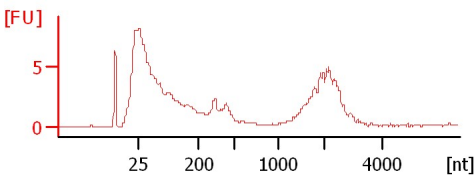
**824892/spl**  
RIN: 2.50



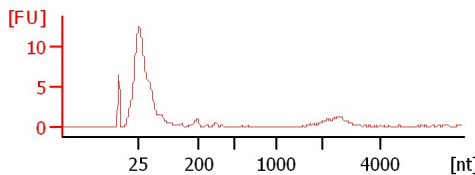
**824892/LN**  
RIN: 2.60



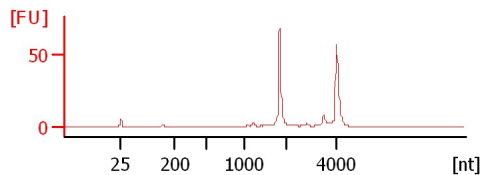
**5-13-92\_4/thy**  
RIN: 2.80



**5-13-92\_4/spl**  
RIN: 2.30



**5-13-92\_4/LN**  
RIN: 9.10



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
 Modified: 10/3/2014 3:48:54 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Fe 1		✓	RIN: 8.60	
Cat6/spl		✓	RIN: 4.30	
cat9/spl		✓	RIN: 2.60	
824891/thy		✓	RIN: 2.60	
824891/spl		✓	RIN: 1.60	
824891/LN		✓	RIN: 2.60	
824892/thy		✓	RIN: 2.60	
824892/spl		✓	RIN: 2.50	
824892/LN		✓	RIN: 2.60	
5-13-92_4/thy		✓	RIN: 2.80	
5-13-92_4/spl		✓	RIN: 2.30	
5-13-92_4/LN		✓	RIN: 9.10	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 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

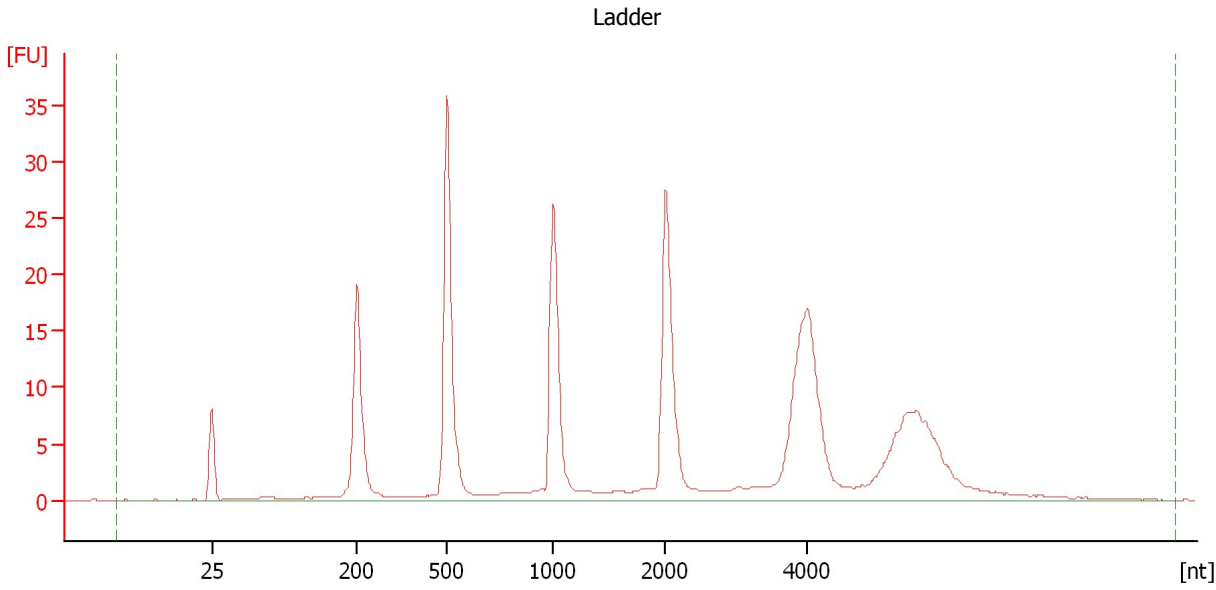
### Ladder

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\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary**



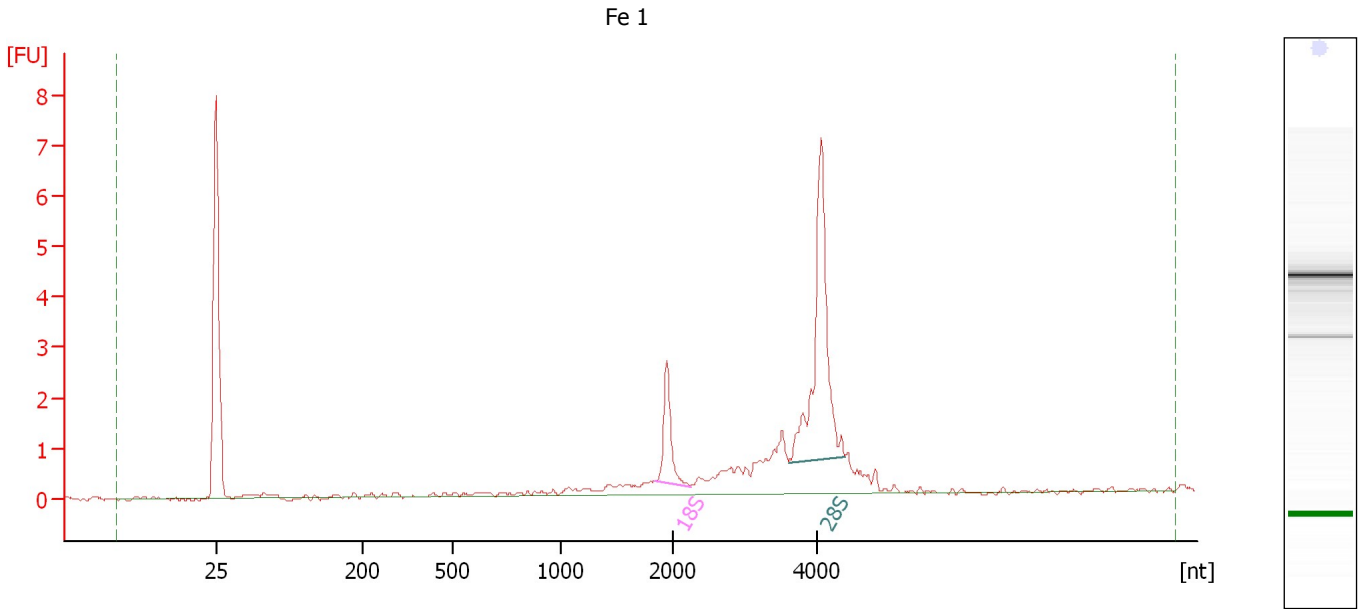
**Overall Results for Ladder**

RNA Area:	262.6	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:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Fe 1**

RNA Area: 25.0                      RNA Integrity Number (RIN): 8.6 (B.02.08)  
RNA Concentration: 14 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 3.7              Result Flagging Label: RIN: 8.60

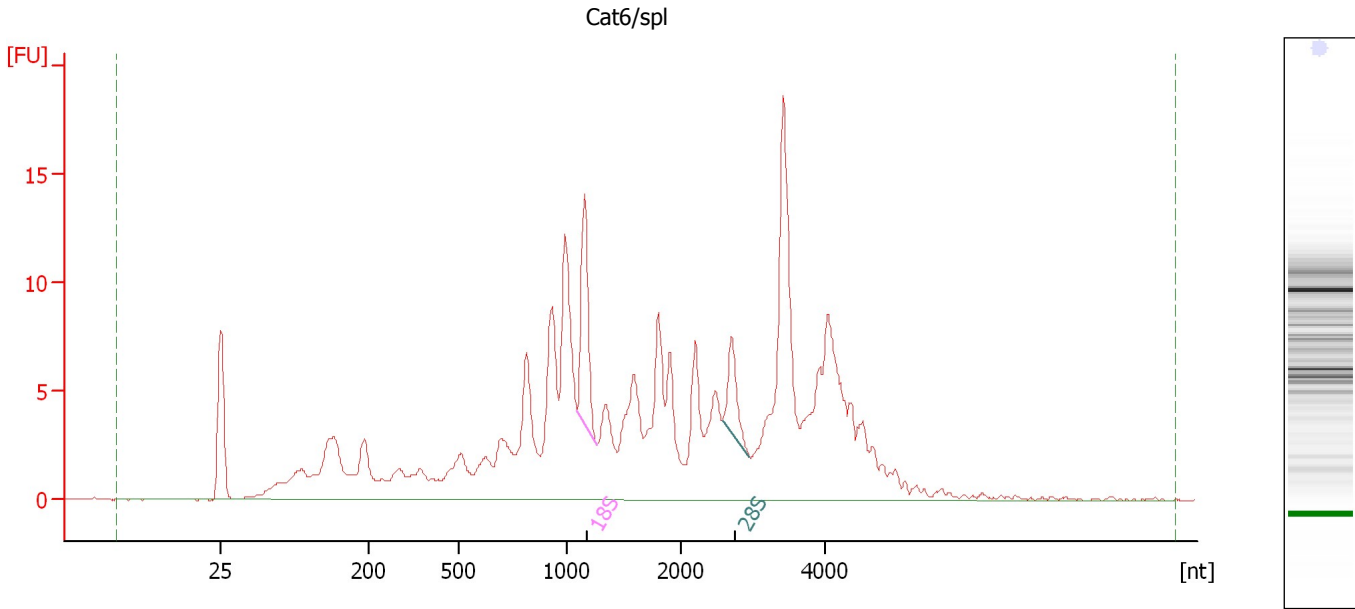
**Fragment table for sample 1 : Fe 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,834	2,245	2.2	8.6
28S	3,602	4,392	7.9	31.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Cat6/spl**

RNA Area:	238.8	RNA Integrity Number (RIN):	4.3 (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]:	0.5	Result Flagging Label:	RIN: 4.30

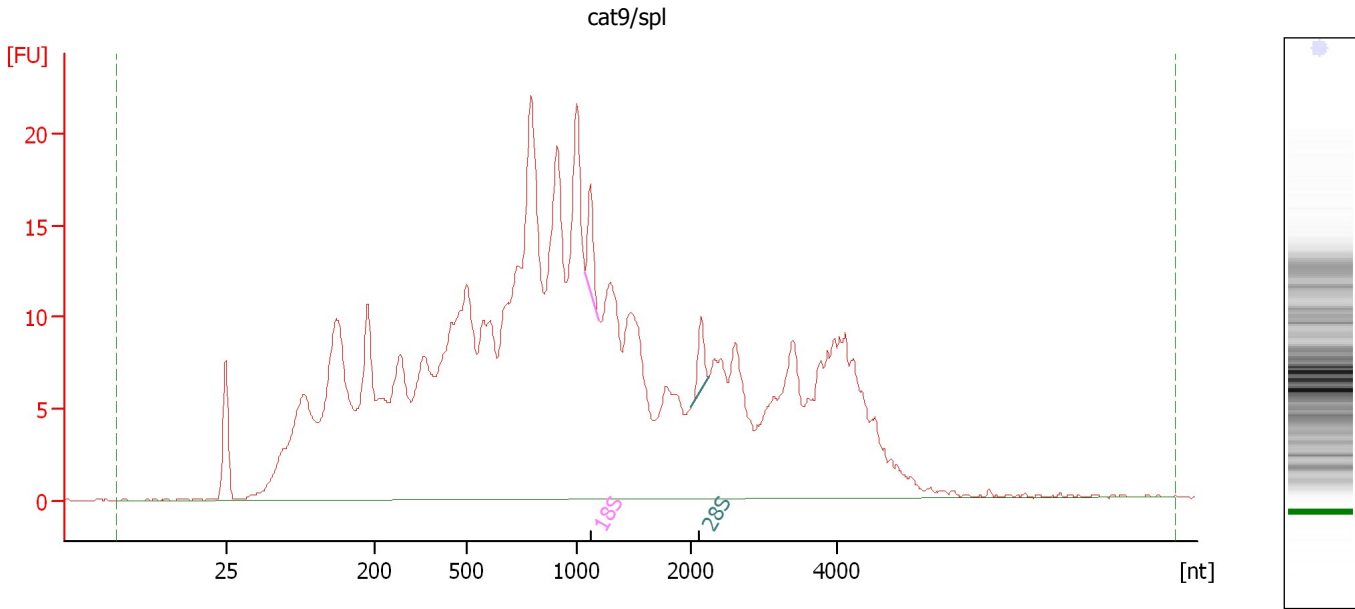
**Fragment table for sample 2 : Cat6/spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,090	1,259	9.1	3.8
28S	2,575	2,945	4.4	1.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : cat9/spl**

RNA Area:	588.0	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	336 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]:	0.7	Result Flagging Label:	RIN: 2.60

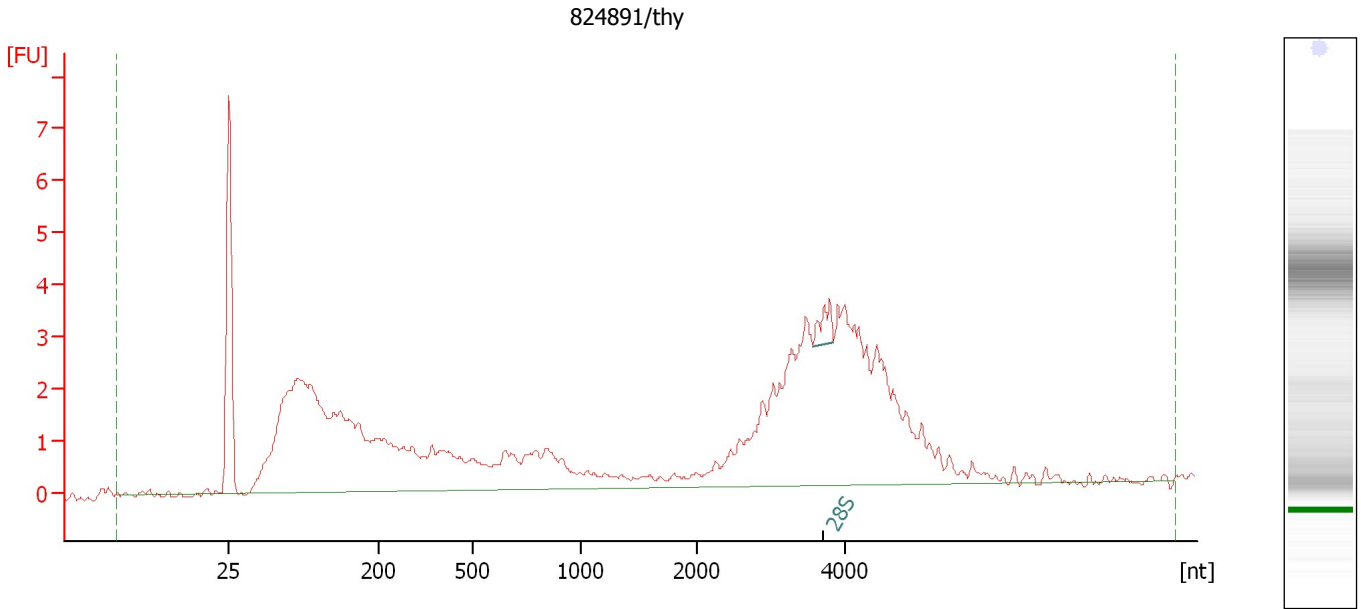
**Fragment table for sample 3 : cat9/spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,077	1,197	4.2	0.7
28S	2,007	2,241	3.0	0.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 824891/thy**

RNA Area:	88.1	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	50 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: 2.60

**Fragment table for sample 4 : 824891/thy**

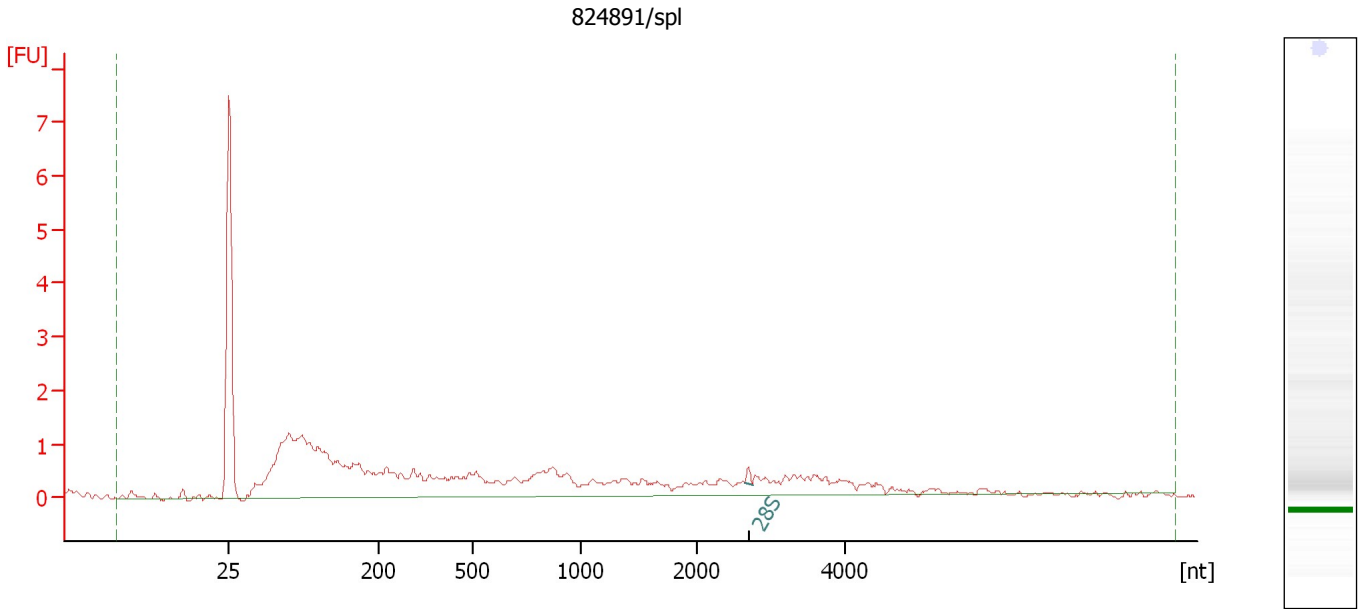
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	3,569	3,860	0.9	1.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 824891/spl**

RNA Area:	32.8	RNA Integrity Number (RIN):	1.6 (B.02.08)
RNA Concentration:	19 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: 1.60

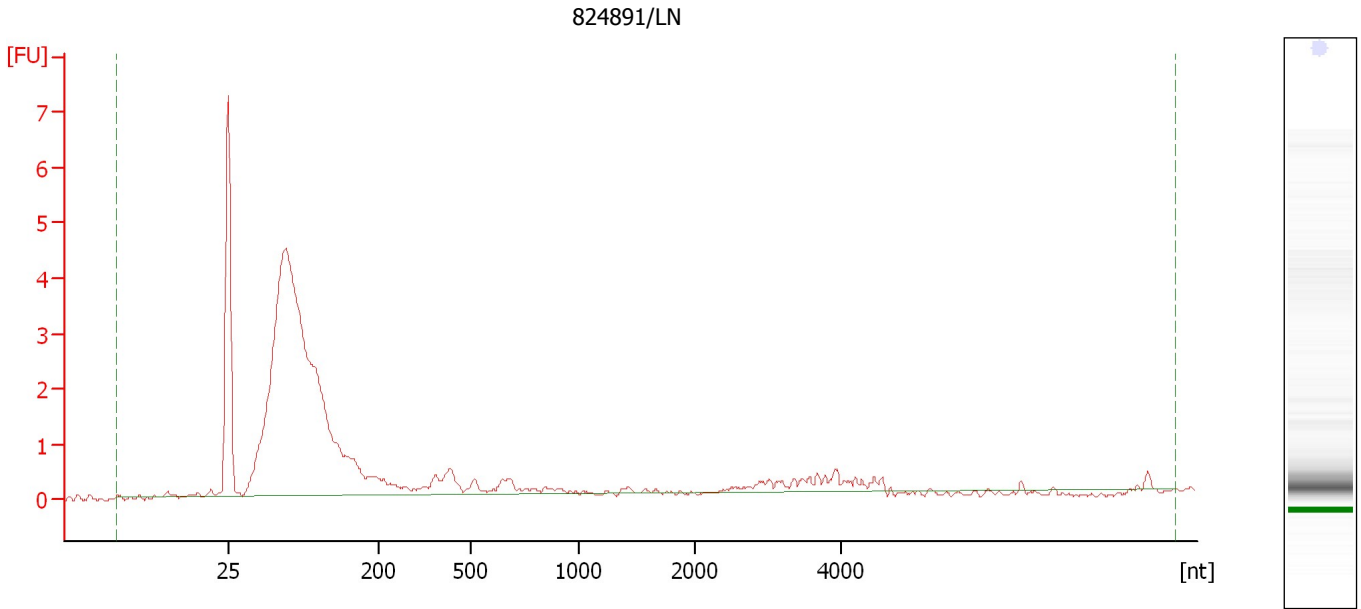
**Fragment table for sample 5 : 824891/spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,637	2,754	0.1	0.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



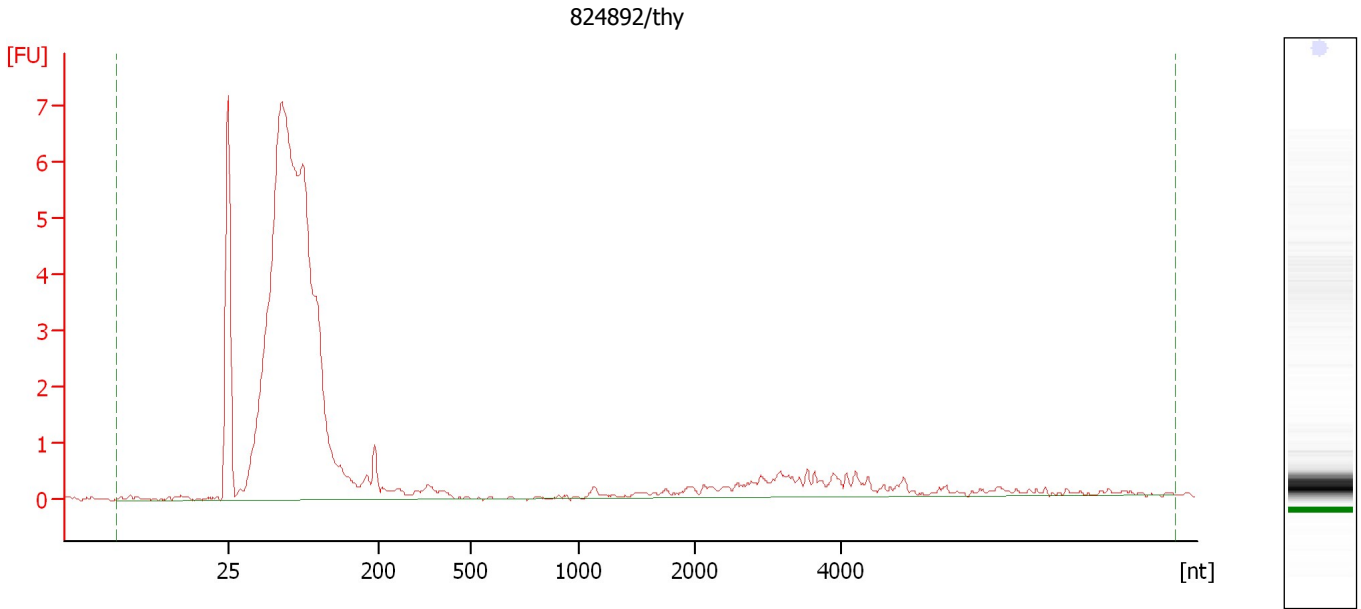
**Overall Results for sample 6 : 824891/LN**

RNA Area:	45.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	26 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: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



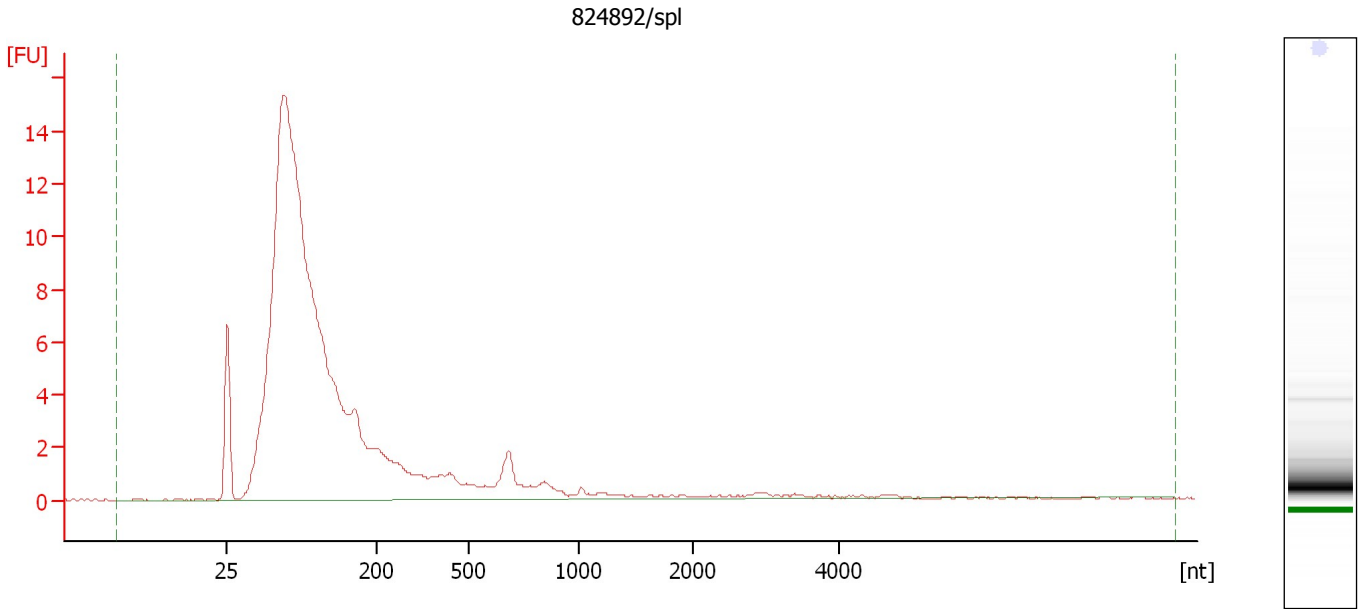
**Overall Results for sample 7 : 824892/thy**

RNA Area:	68.7	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	39 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: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



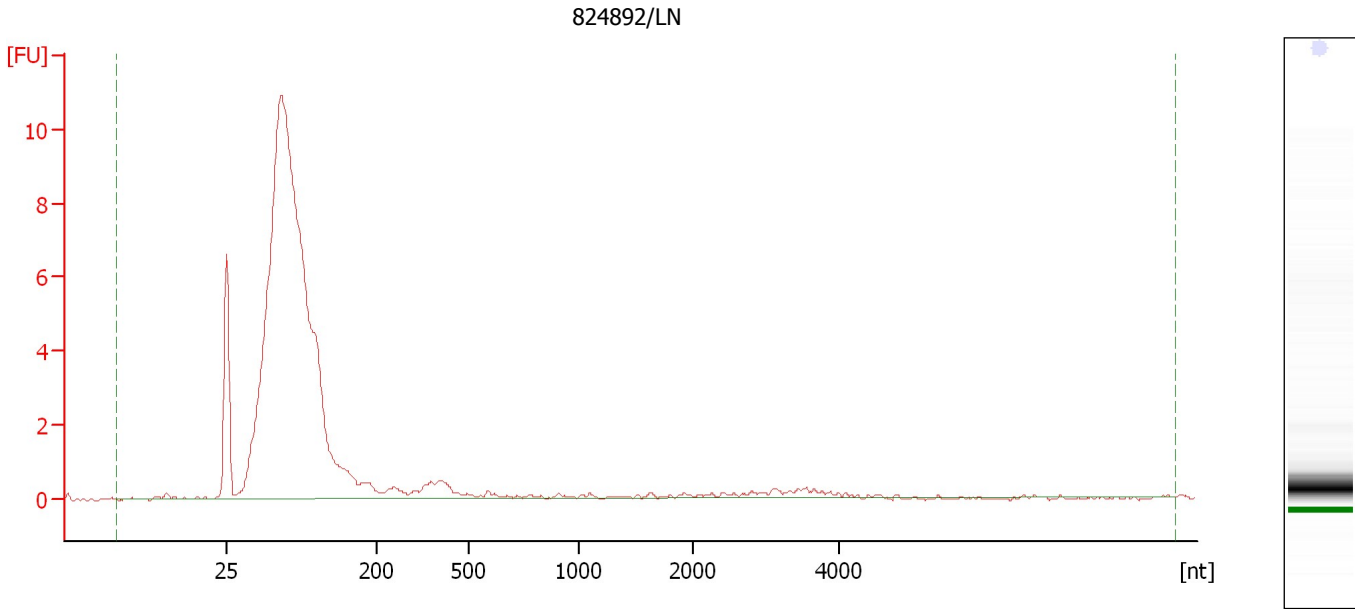
**Overall Results for sample 8 : 824892/spl**

RNA Area:	162.6	RNA Integrity Number (RIN):	2.5 (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]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



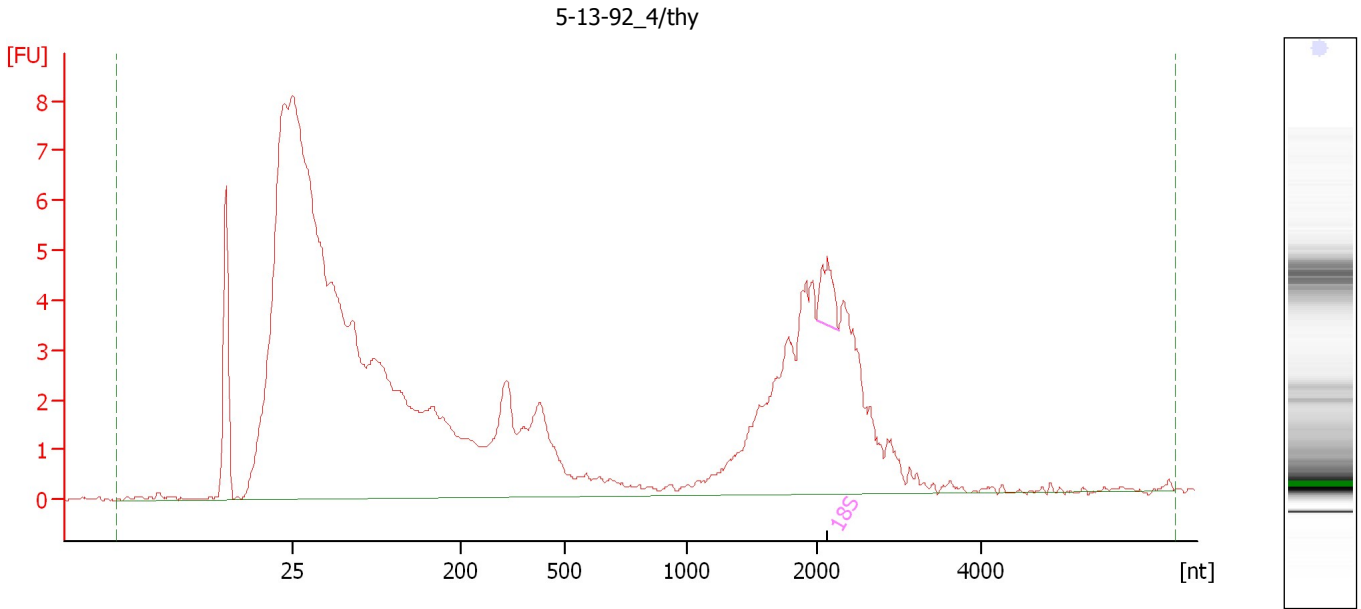
**Overall Results for sample 9 : 824892/LN**

RNA Area:	90.2	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	52 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: 2.60

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 5-13-92 4/thy**

RNA Area: 115.1 RNA Integrity Number (RIN): 2.8 (B.02.08)  
RNA Concentration: 66 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.80

**Fragment table for sample 10 : 5-13-92 4/thy**

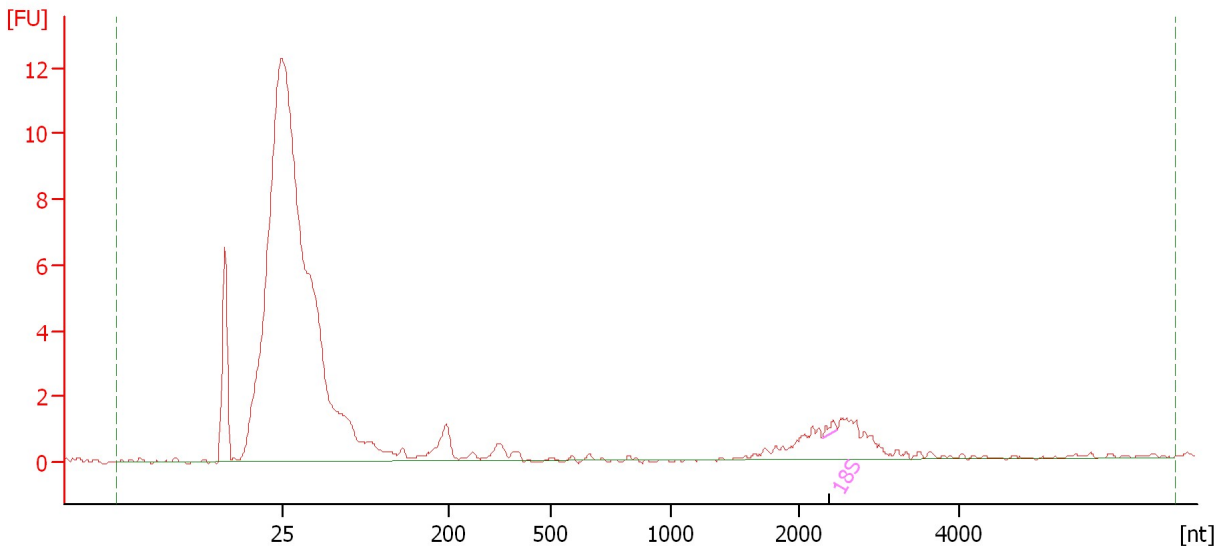
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,007	2,267	1.6	1.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**

5-13-92\_4/spl



**Overall Results for sample 11 : 5-13-92 4/spl**

RNA Area: 28.1                      RNA Integrity Number (RIN): 2.3 (B.02.08)  
RNA Concentration: 16 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.0              Result Flagging Label: RIN: 2.30

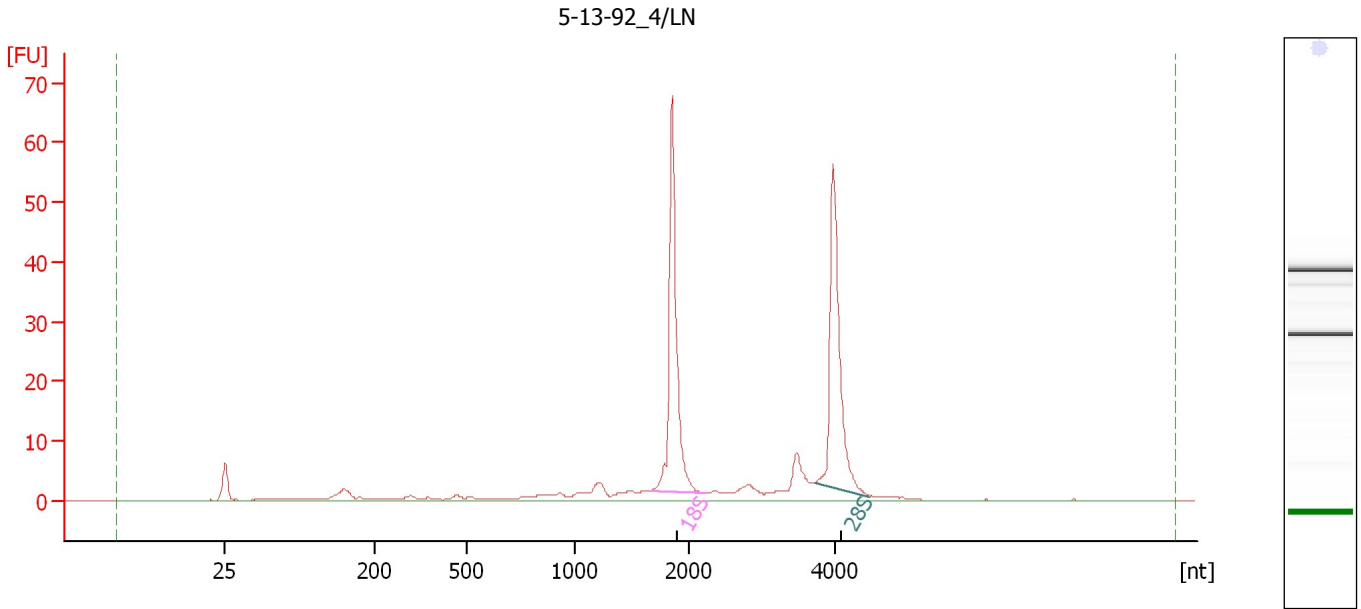
**Fragment table for sample 11 : 5-13-92 4/spl**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,298	2,482	0.3	1.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 5-13-92 4/LN**

RNA Area: 195.7 RNA Integrity Number (RIN): 9.1 (B.02.08)  
RNA Concentration: 112 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 9.10

**Fragment table for sample 12 : 5-13-92 4/LN**

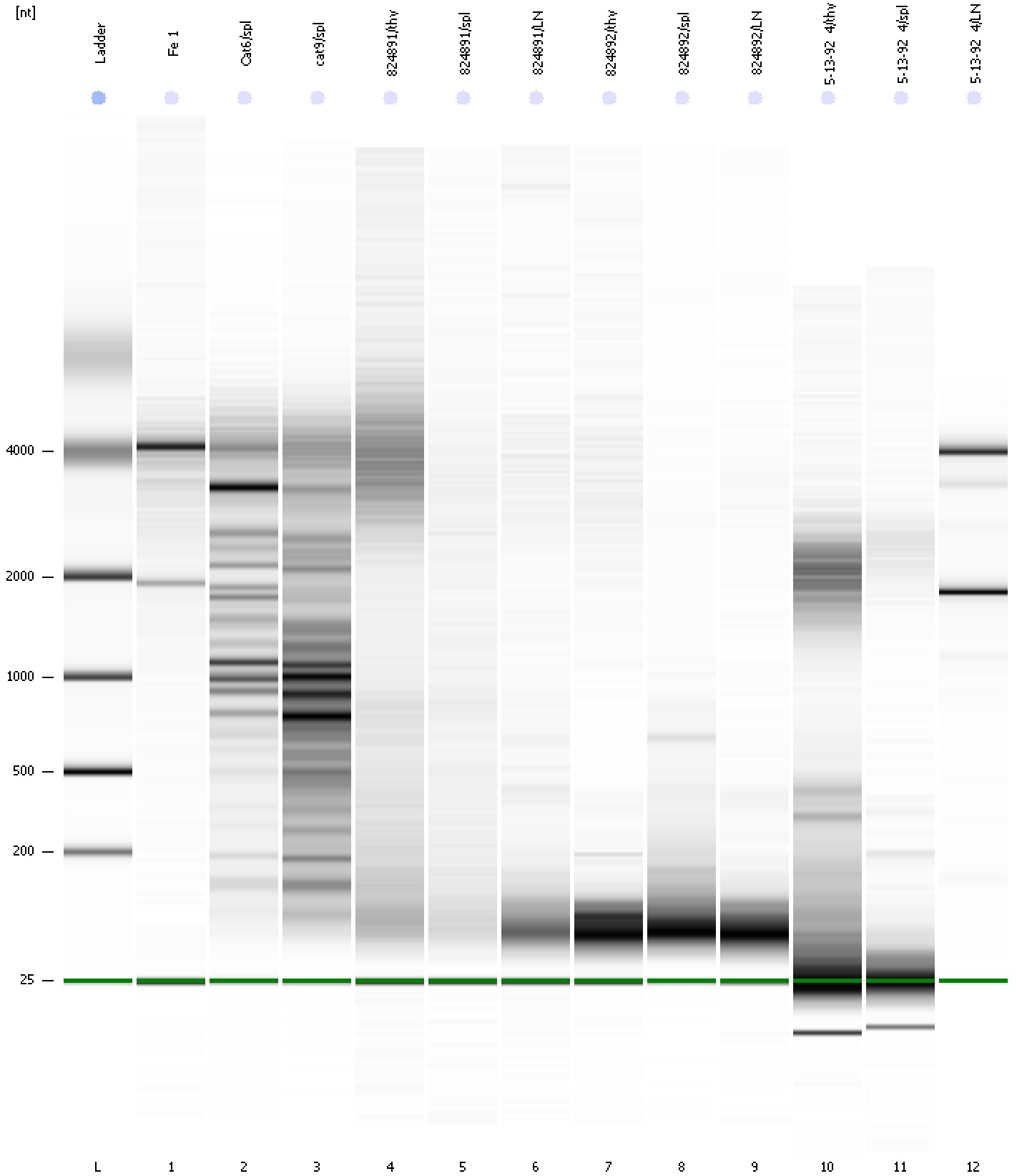
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,659	2,225	56.7	28.9
28S	3,721	4,470	50.8	25.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Gel Image**

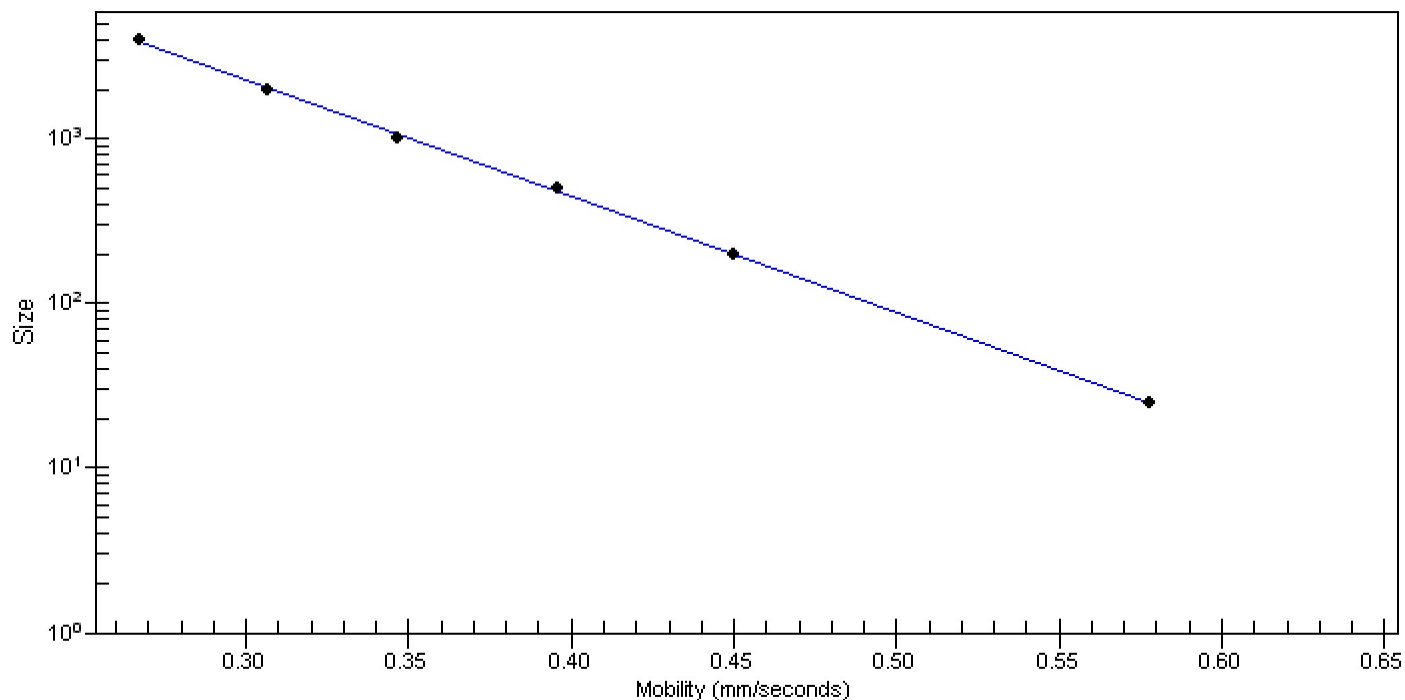


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
Modified: 10/3/2014 3:48:54 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03\_006.xad

Created: 10/3/2014 3:24:59 PM  
 Modified: 10/3/2014 3:48:54 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		10/3/2014 3:48:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-03\2014-10-03_006.xad)		Instrument	Run		10/3/2014 3:25:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/3/2014 3:25:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/3/2014 3:25:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/3/2014 3:25:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/3/2014 3:25:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/3/2014 3:25:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/3/2014 3:25:05 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1