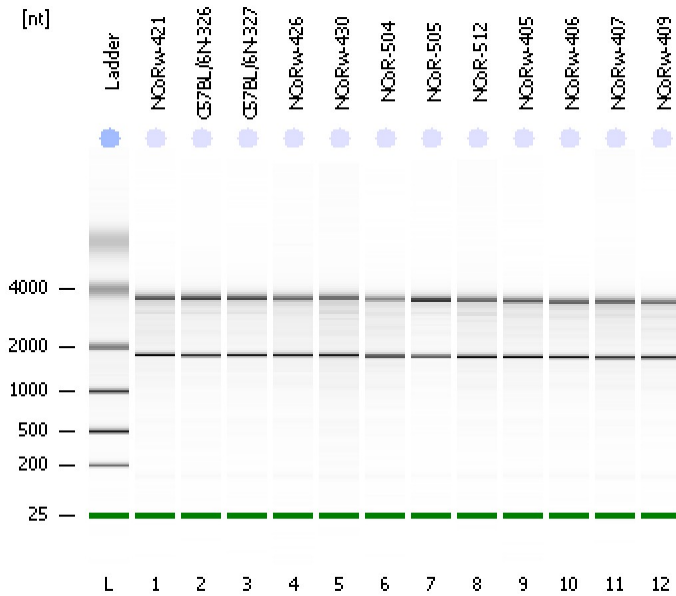


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

Electrophoresis File Run Summary



Instrument Information:

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

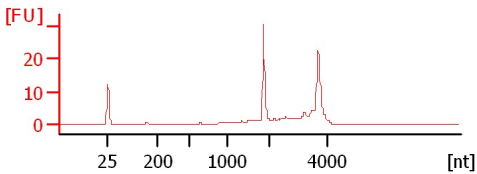
Assay Information:

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.

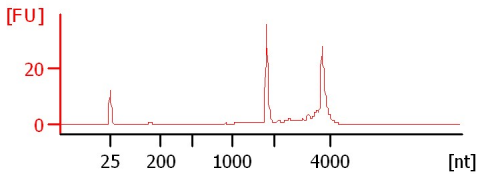
Chip Information:

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

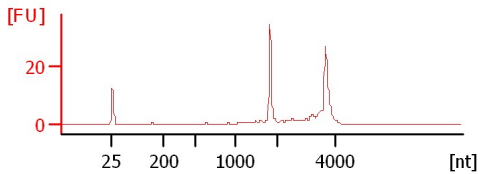
**NCoRw-421**  
QC\_050  
RIN: 8.60



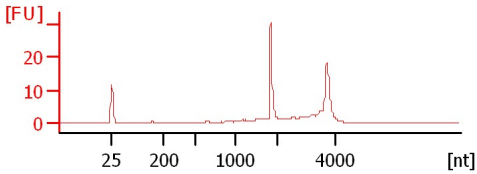
**C57BL/6N-326**  
QC\_050  
RIN: 9.10



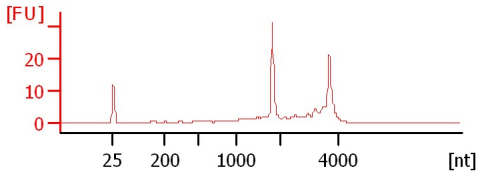
**C57BL/6N-327**  
QC\_050  
RIN: 8.90



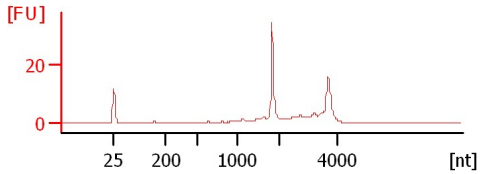
**NCoRw-426**  
QC\_050  
RIN: 9.10



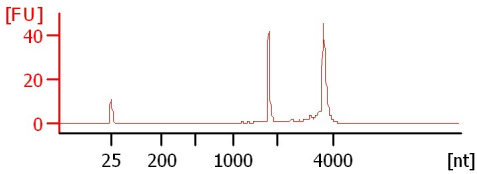
**NCoRw-430**  
QC\_050  
RIN: 8



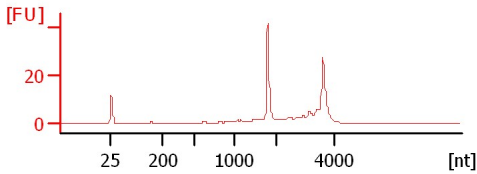
**NCoR-504**  
QC\_050  
RIN: 8.20



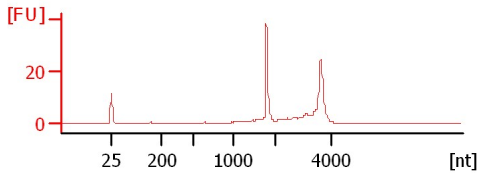
**NCoR-505**  
QC\_050  
RIN: 9.50



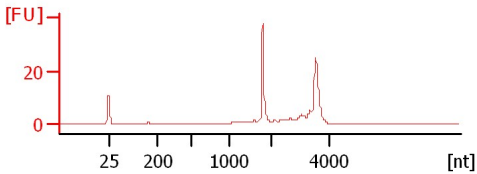
**NCoR-512**  
QC\_050  
RIN: 8.50



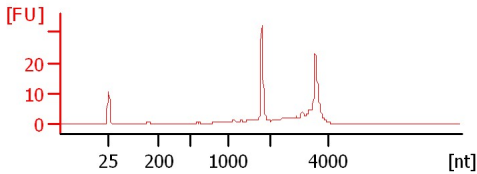
**NCoRw-405**  
QC\_050  
RIN: 9.10



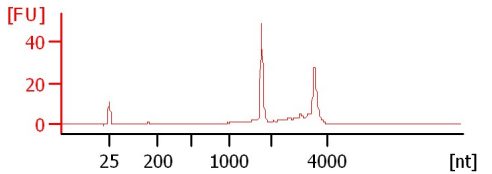
**NCoRw-406**  
QC\_050  
RIN: 9.20



**NCoRw-407**  
QC\_050  
RIN: 8.50



**NCoRw-409**  
QC\_050  
RIN: 8.70



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
NCoRw-421	QC_050	✓	RIN: 8.60	
C57BL/6N-326	QC_050	✓	RIN: 9.10	
C57BL/6N-327	QC_050	✓	RIN: 8.90	
NCoRw-426	QC_050	✓	RIN: 9.10	
NCoRw-430	QC_050	✓	RIN:8	
NCoR-504	QC_050	✓	RIN: 8.20	
NCoR-505	QC_050	✓	RIN: 9.50	
NCoR-512	QC_050	✓	RIN: 8.50	
NCoRw-405	QC_050	✓	RIN: 9.10	
NCoRw-406	QC_050	✓	RIN: 9.20	
NCoRw-407	QC_050	✓	RIN: 8.50	
NCoRw-409	QC_050	✓	RIN: 8.70	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 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

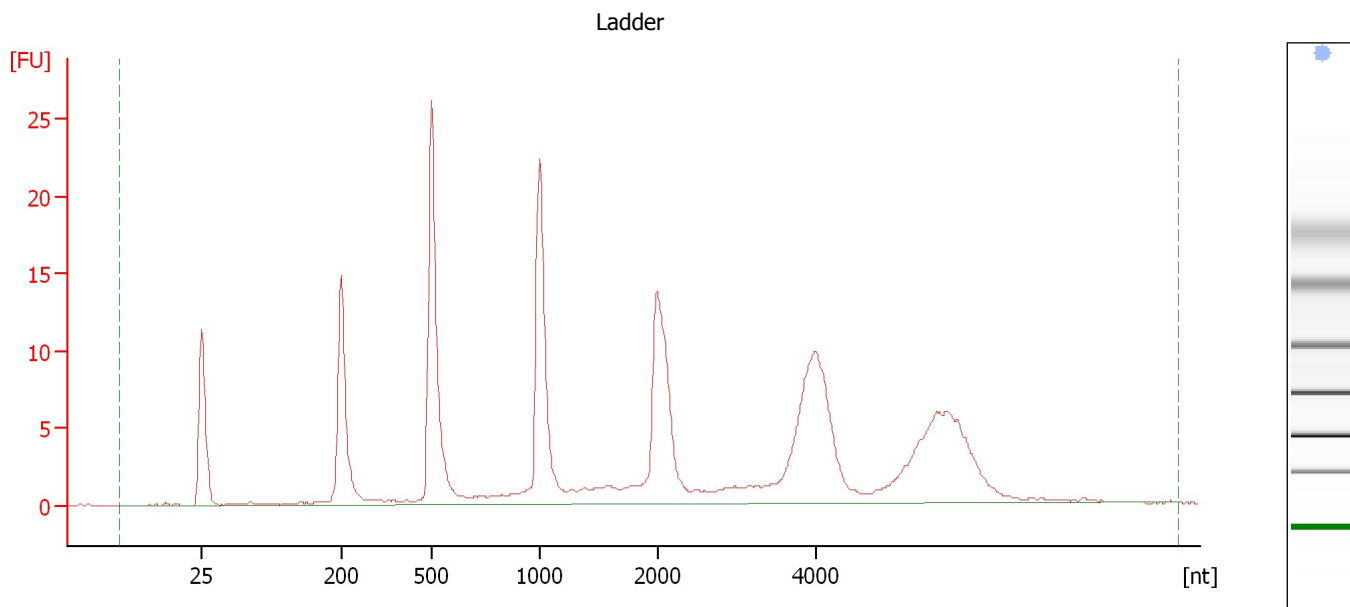
**Ladder**

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\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary**



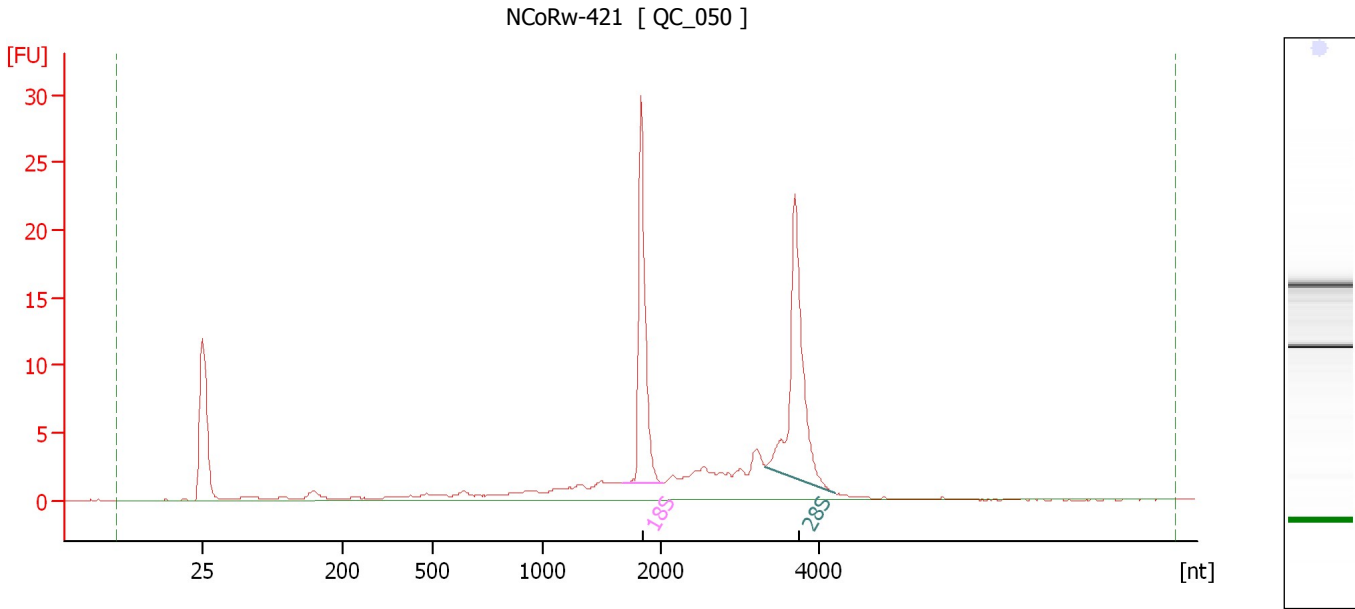
**Overall Results for Ladder**

RNA Area:	207.0	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\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : NCoRw-421**

RNA Area:	110.0	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	80 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: 8.60

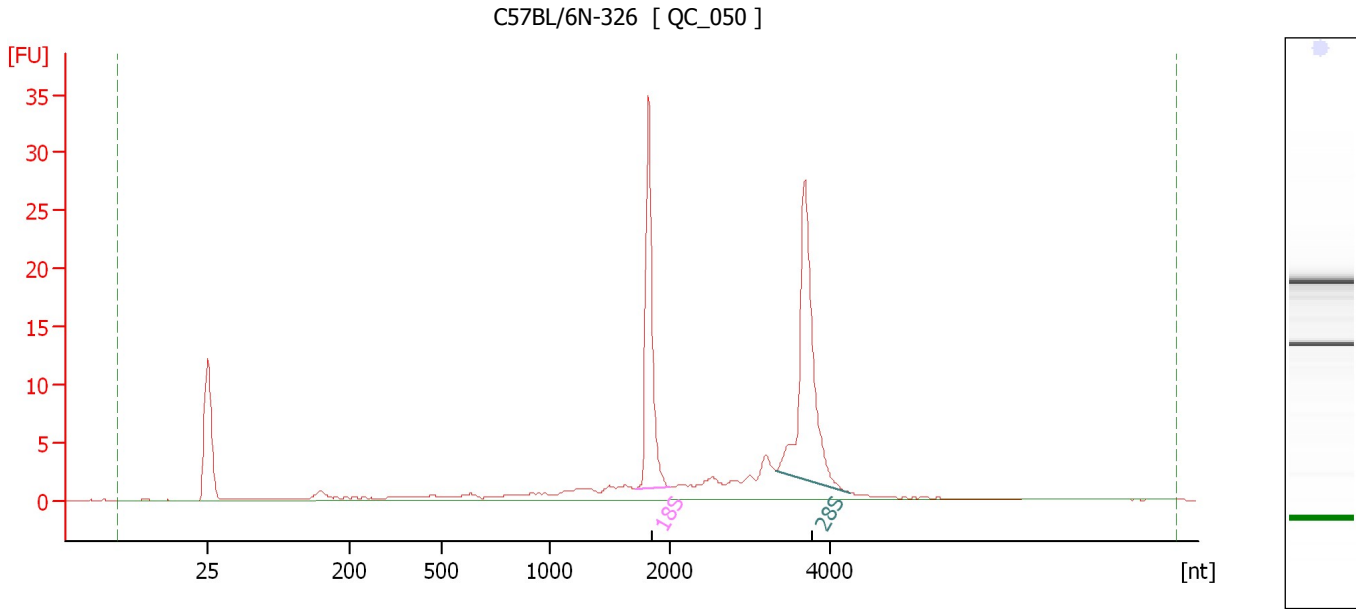
**Fragment table for sample 1 : NCoRw-421**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,686	2,016	22.4	20.3
28S	3,319	4,192	27.3	24.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : C57BL/6N-326**

RNA Area: 116.0                      RNA Integrity Number (RIN): 9.1 (B.02.08)  
RNA Concentration: 84 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3              Result Flagging Label: RIN: 9.10

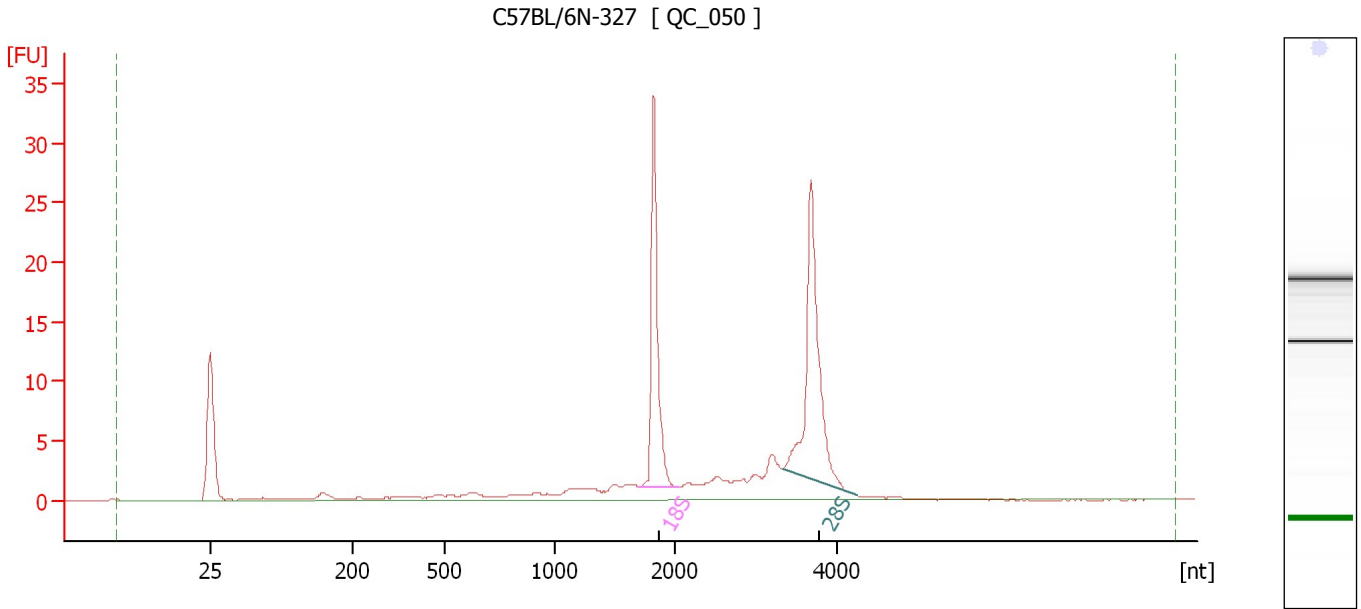
**Fragment table for sample 2 : C57BL/6N-326**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,709	1,996	26.1	22.5
28S	3,326	4,244	35.1	30.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : C57BL/6N-327**

RNA Area:	109.3	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	79 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]:	1.3	Result Flagging Label:	RIN: 8.90

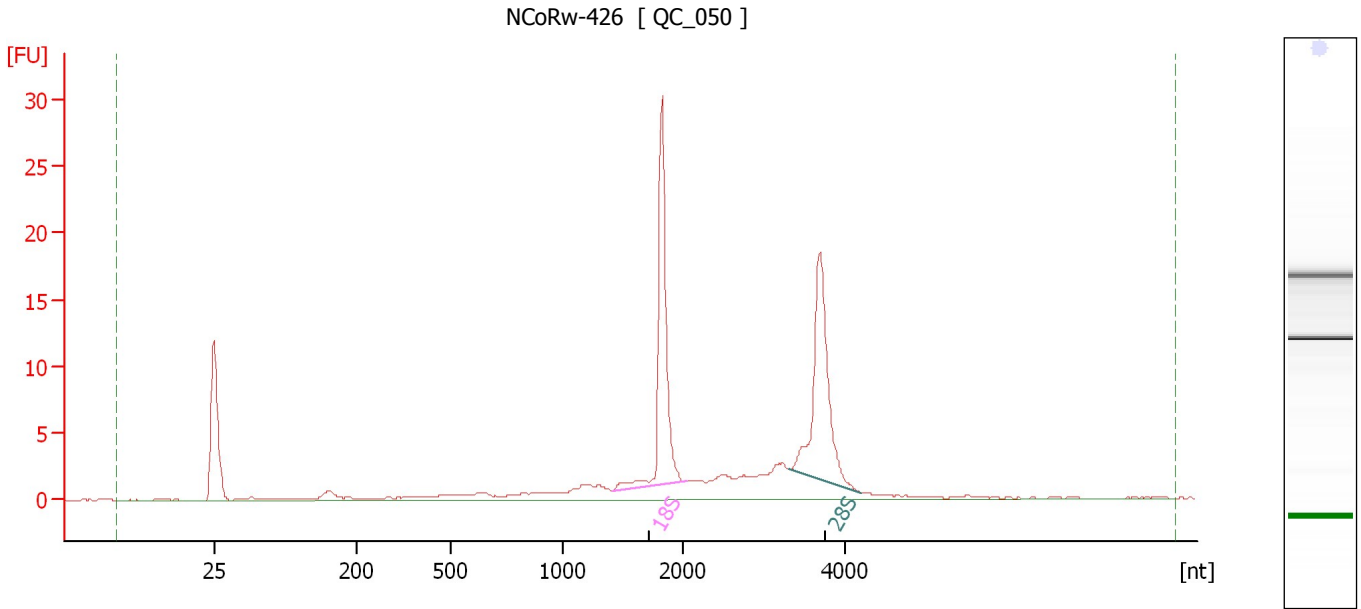
**Fragment table for sample 3 : C57BL/6N-327**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	2,051	25.4	23.3
28S	3,334	4,260	32.3	29.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
 Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : NCoRw-426**

RNA Area:	100.1	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	73 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: 9.10

**Fragment table for sample 4 : NCoRw-426**

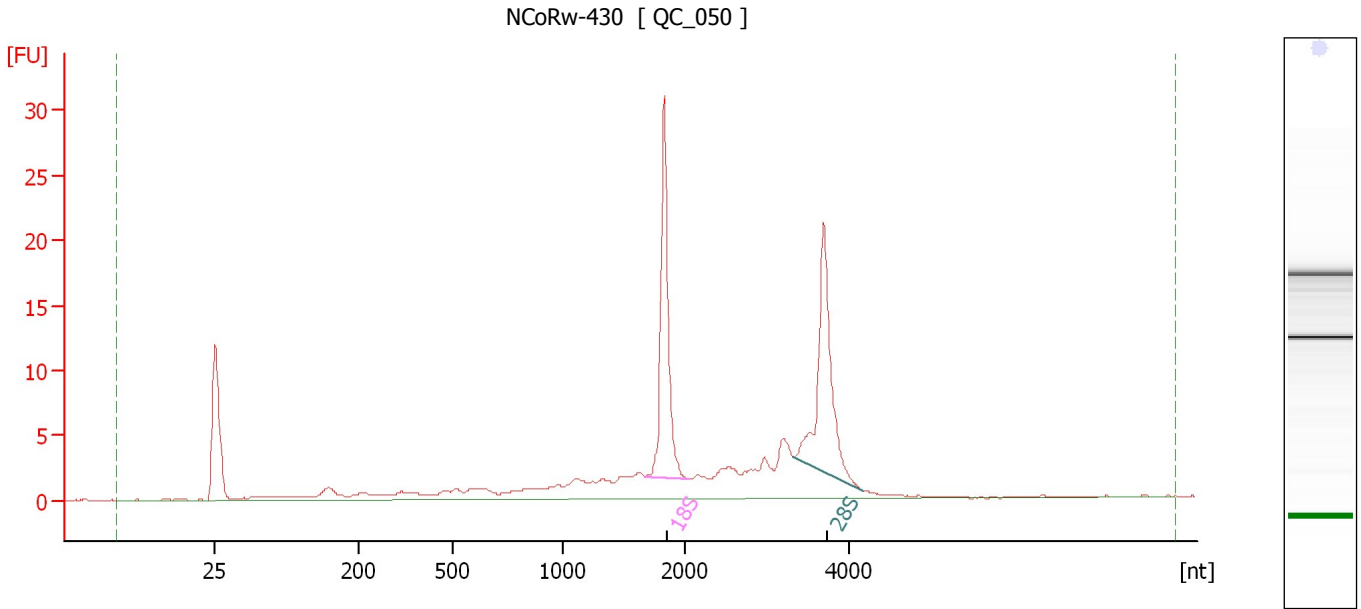
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,419	2,055	25.3	25.3
28S	3,288	4,180	25.0	25.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : NCoRw-430**

RNA Area: 129.2                      RNA Integrity Number (RIN): 8 (B.02.08)  
RNA Concentration: 94 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0                      Result Flagging Label: RIN:8

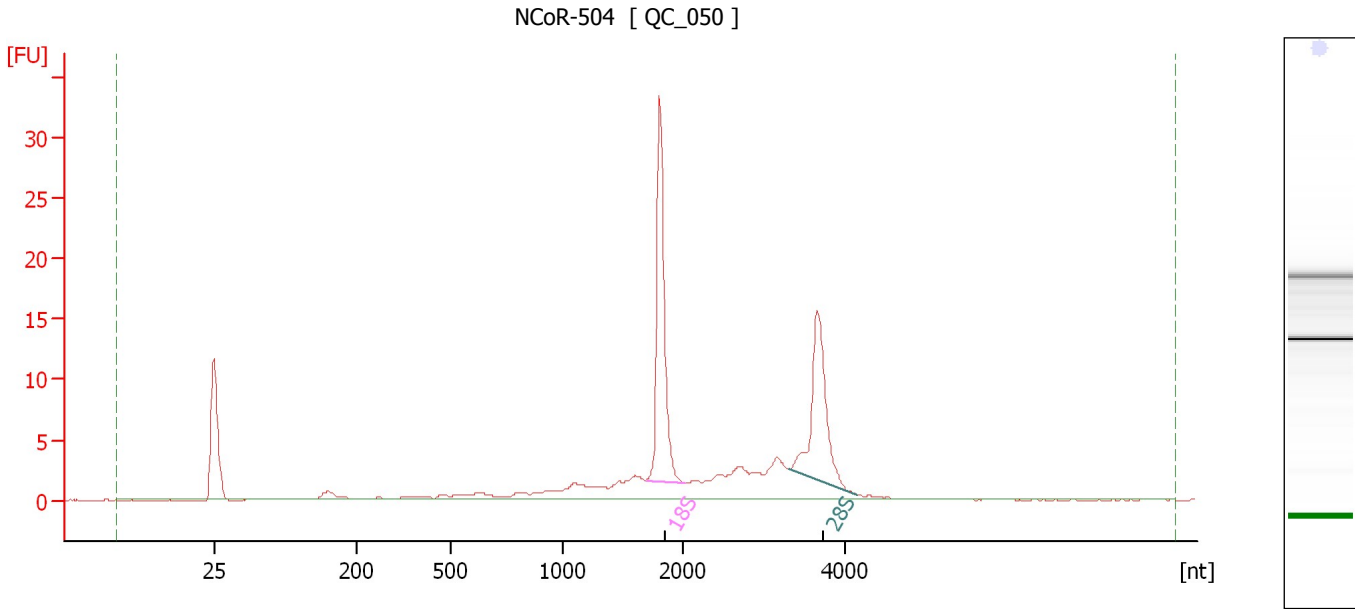
**Fragment table for sample 5 : NCoRw-430**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	2,056	25.1	19.4
28S	3,326	4,190	25.0	19.4

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
 Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : NCoR-504**

RNA Area:	108.6	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	79 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]:	0.8	Result Flagging Label:	RIN: 8.20

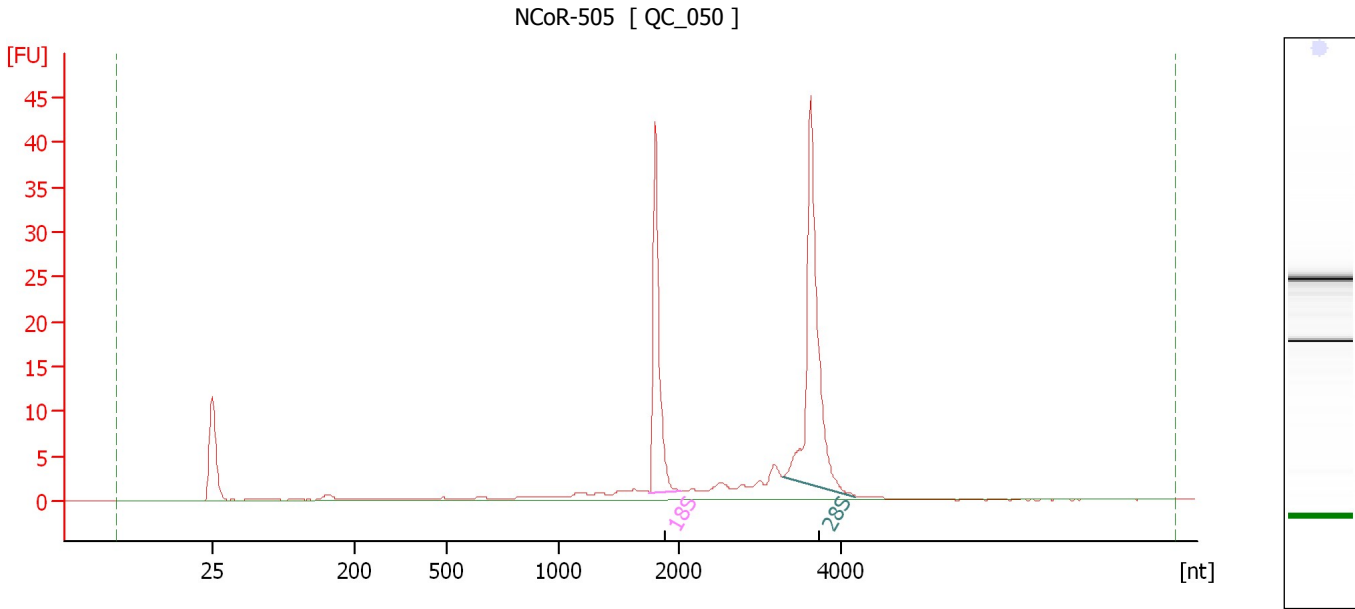
**Fragment table for sample 6 : NCoR-504**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,693	2,029	27.3	25.1
28S	3,288	4,141	20.6	19.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : NCoR-505**

RNA Area: 129.7                      RNA Integrity Number (RIN): 9.5 (B.02.08)  
RNA Concentration: 94 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.6              Result Flagging Label: RIN: 9.50

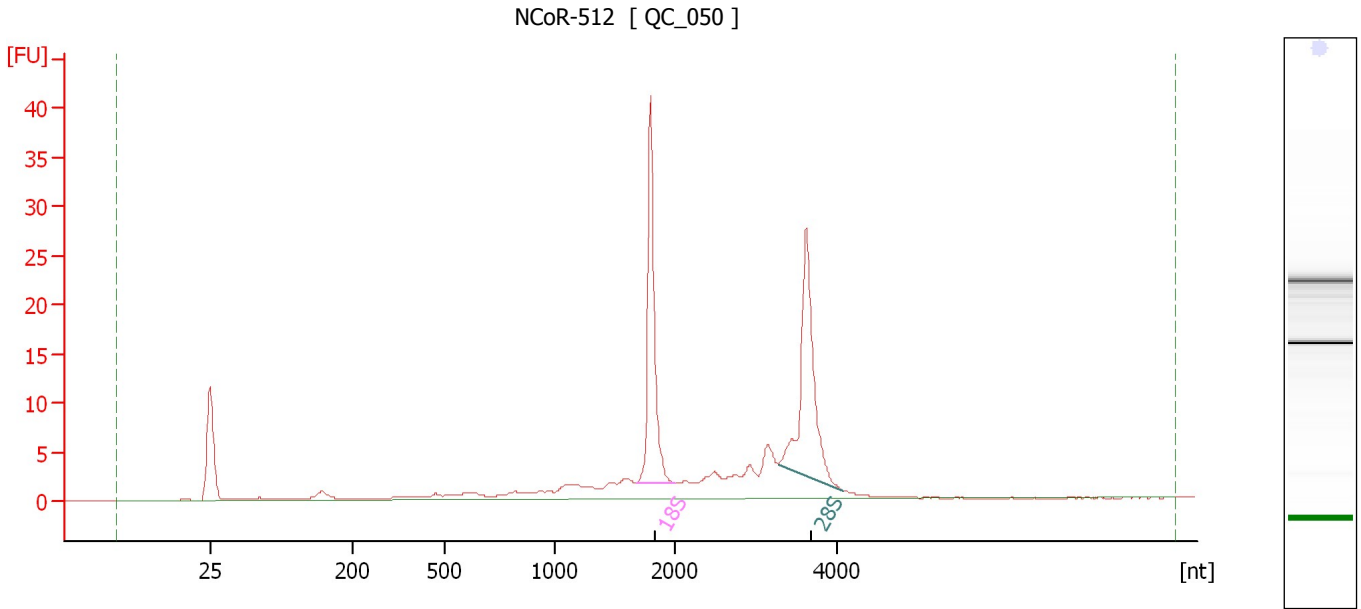
**Fragment table for sample 7 : NCoR-505**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,752	2,027	30.3	23.4
28S	3,291	4,174	48.5	37.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : NCoR-512**

RNA Area: 141.1                      RNA Integrity Number (RIN): 8.5 (B.02.08)  
RNA Concentration: 102 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0              Result Flagging Label: RIN: 8.50

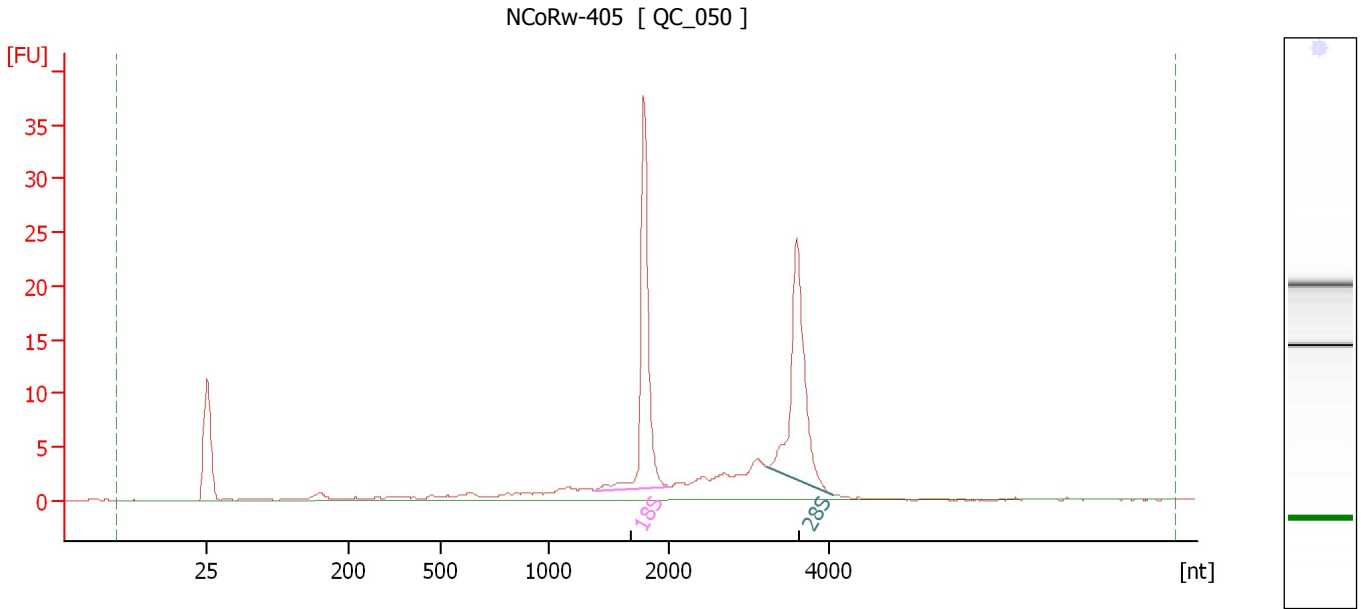
**Fragment table for sample 8 : NCoR-512**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	1,998	32.3	22.9
28S	3,281	4,088	32.7	23.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : NCoRw-405**

RNA Area: 125.0                      RNA Integrity Number (RIN): 9.1 (B.02.08)  
RNA Concentration: 91 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0              Result Flagging Label: RIN: 9.10

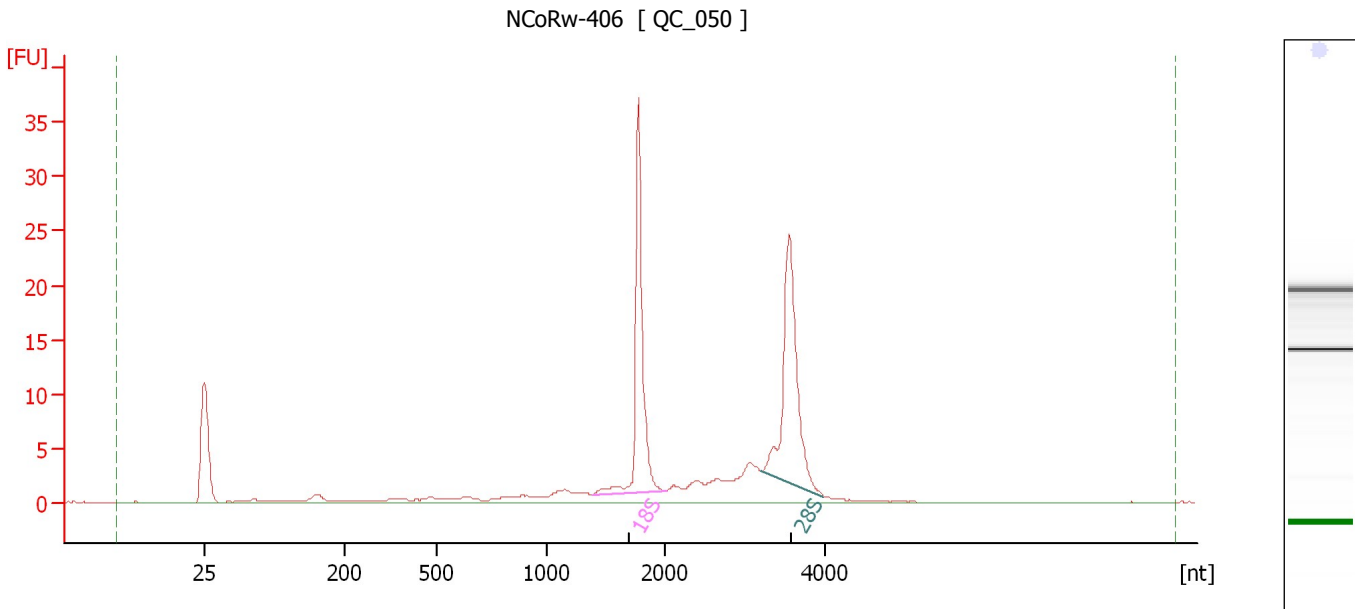
**Fragment table for sample 9 : NCoRw-405**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,387	2,008	31.7	25.4
28S	3,219	4,058	32.0	25.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : NCoRw-406**

RNA Area: 119.9                      RNA Integrity Number (RIN): 9.2 (B.02.08)  
RNA Concentration: 87 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1              Result Flagging Label: RIN: 9.20

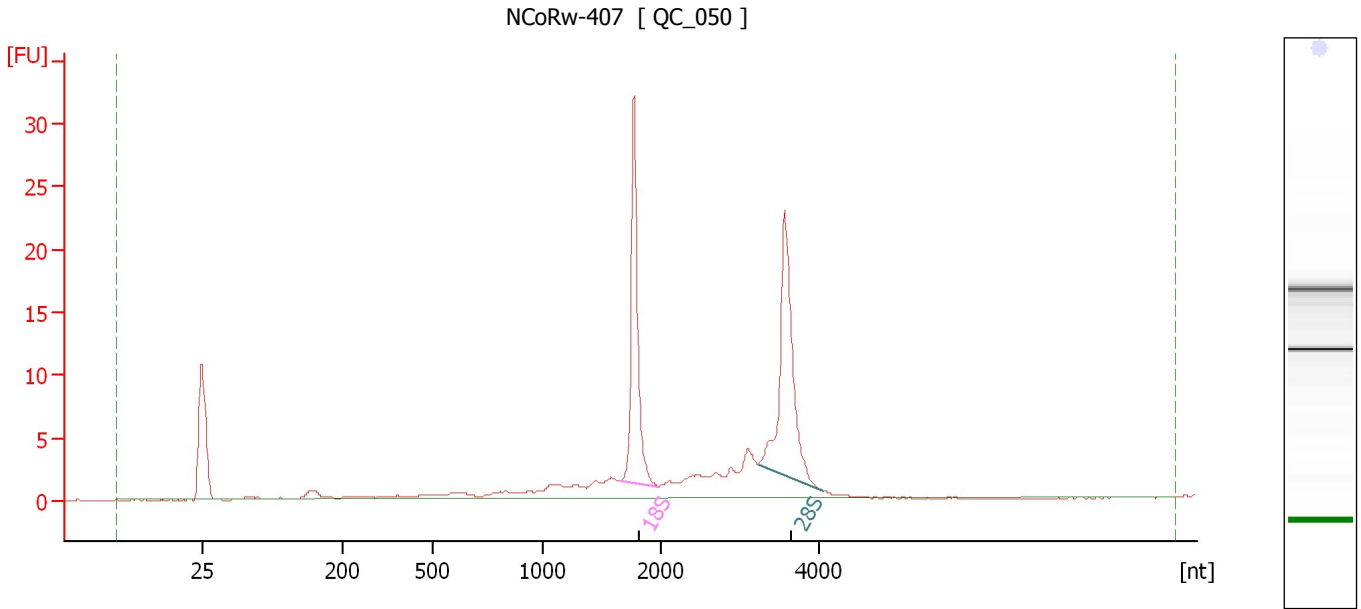
**Fragment table for sample 10 : NCoRw-406**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,392	2,019	30.7	25.6
28S	3,195	3,984	32.6	27.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : NCoRw-407**

RNA Area: 107.8 RNA Integrity Number (RIN): 8.5 (B.02.08)  
RNA Concentration: 78 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.50

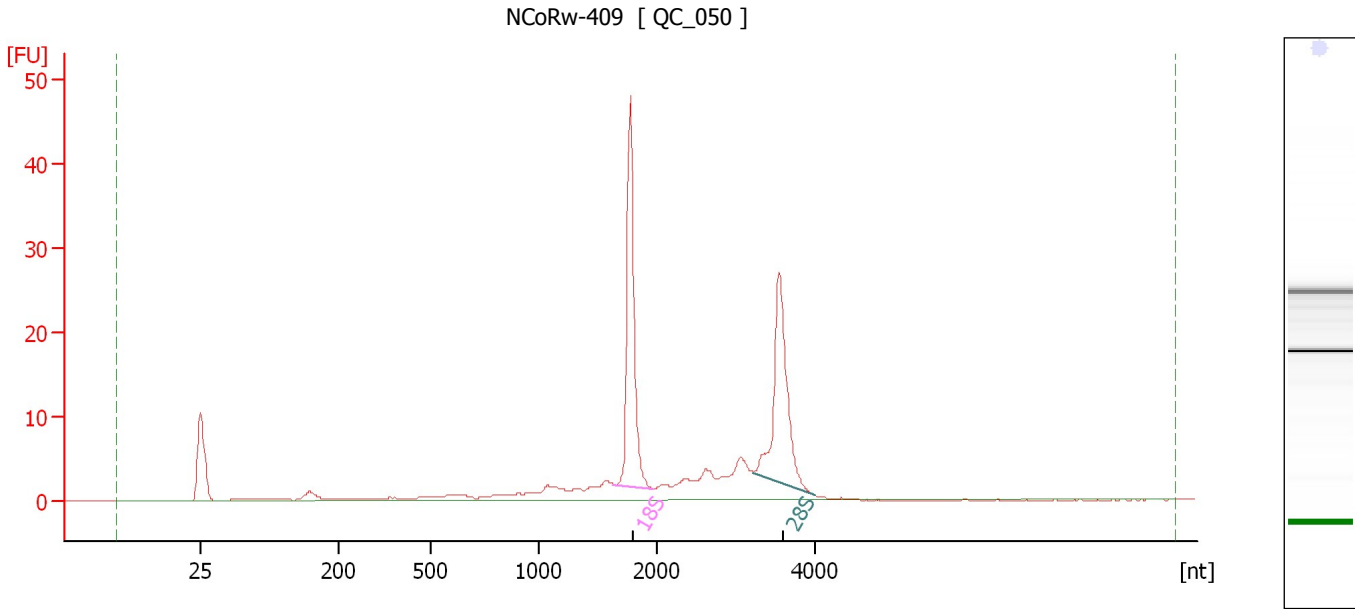
**Fragment table for sample 11 : NCoRw-407**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	1,984	25.3	23.5
28S	3,225	4,044	27.5	25.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : NCoRw-409**

RNA Area: 146.9                      RNA Integrity Number (RIN): 8.7 (B.02.08)  
RNA Concentration: 106 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.9              Result Flagging Label: RIN: 8.70

**Fragment table for sample 12 : NCoRw-409**

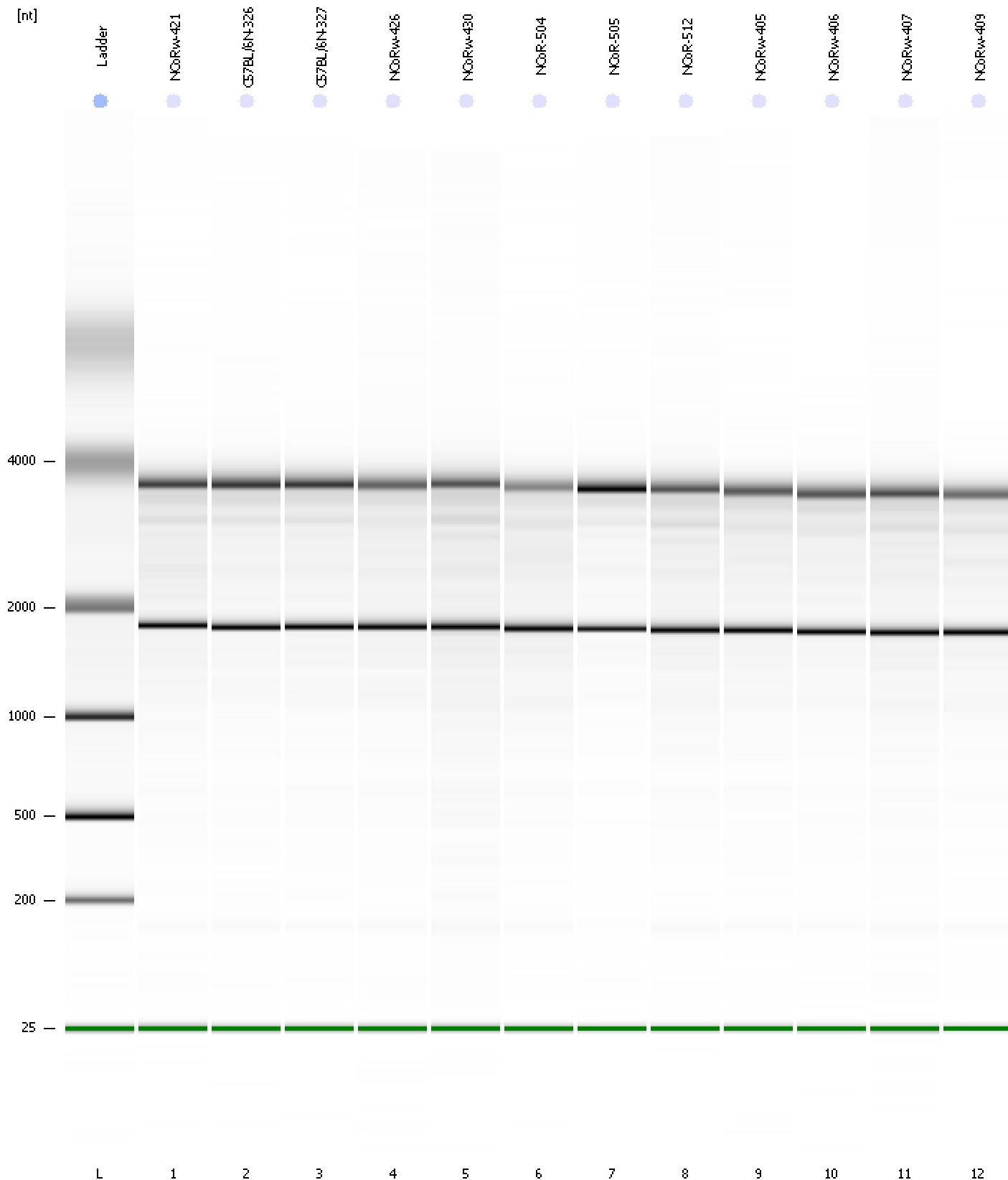
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,637	1,964	37.8	25.7
28S	3,228	4,010	35.2	23.9



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Gel Image**

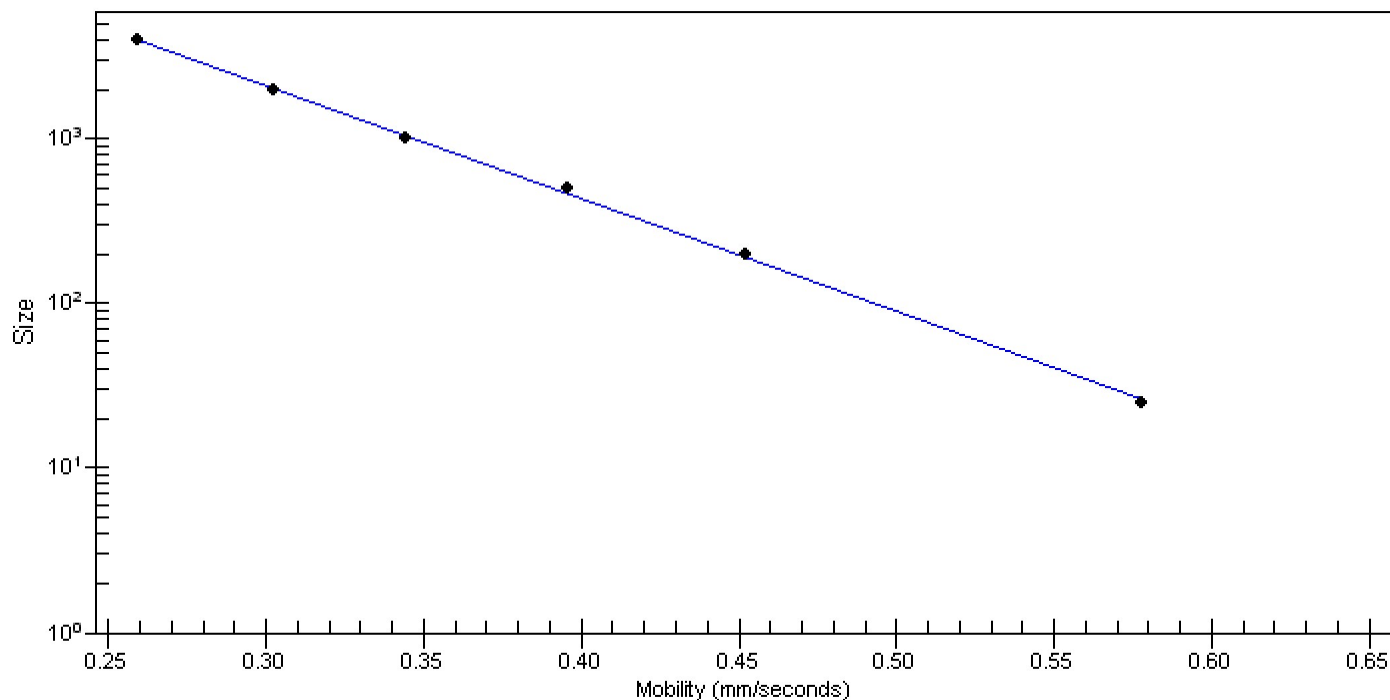


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
Modified: 11/17/2015 12:08:41 PM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-17\2015-11-17\_003.xad

Created: 11/17/2015 11:45:39 AM  
 Modified: 11/17/2015 12:08:41 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		11/17/2015 12:08:40 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-17\2015-11-17_003.xad)		Instrument	Run		11/17/2015 11:45:44 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/17/2015 11:45:44 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/17/2015 11:45:44 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/17/2015 11:45:44 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/17/2015 11:45:44 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/17/2015 11:45:44 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/17/2015 11:45:44 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1