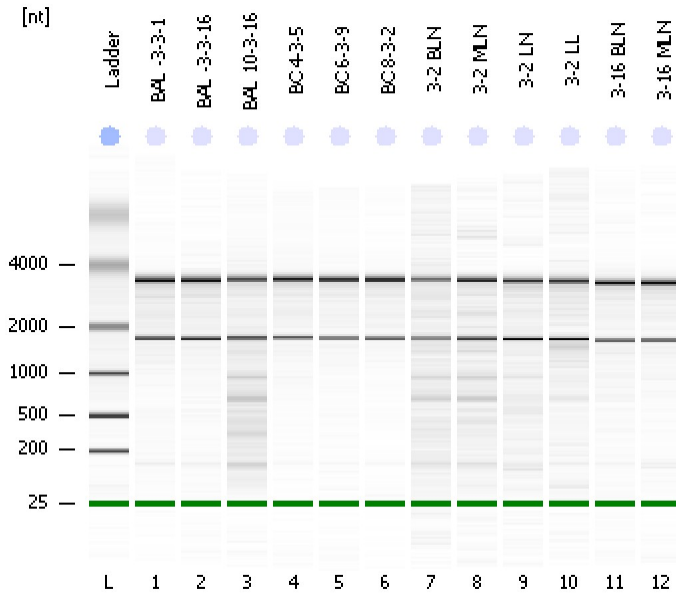


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electrophoresis File Run Summary**



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

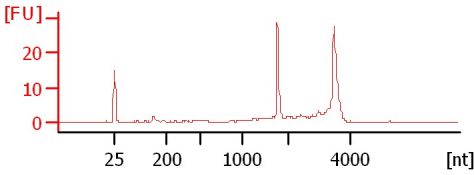
Assay Information:

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.

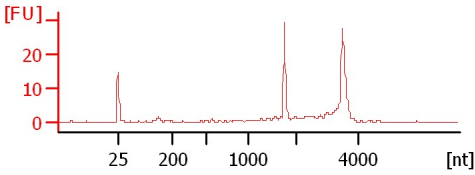
Chip Information:

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

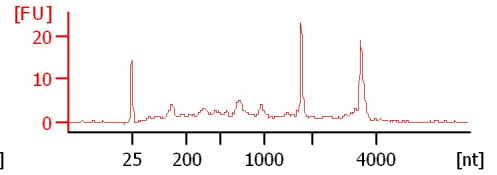
**BAL -3-3-1**  
RIN: 8.80



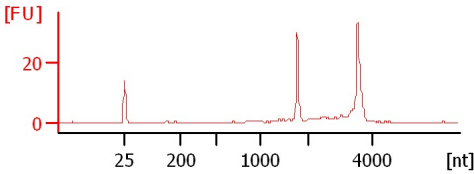
**BAL -3-3-16**  
RIN: 8.80



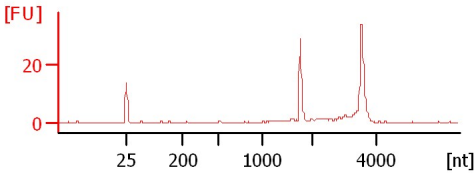
**BAL 10-3-16**  
RIN: 6.60



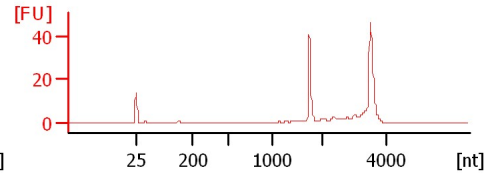
**BC 4-3-5**  
RIN: 9



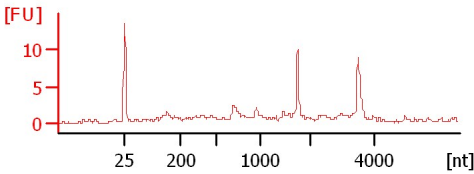
**BC 6-3-9**  
RIN: 9.30



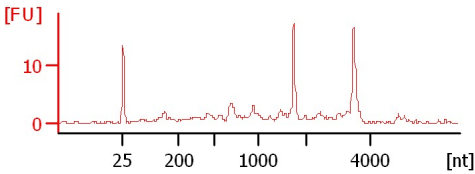
**BC 8-3-2**  
RIN: 9.40



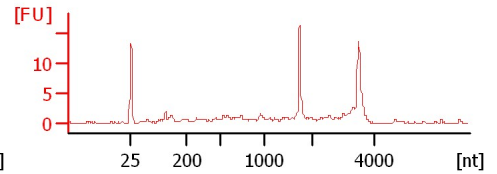
**3-2 BLN**  
RIN: 7.10



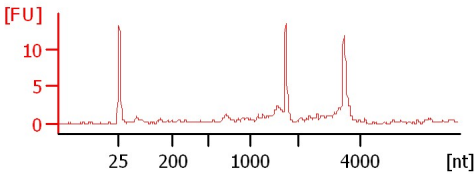
**3-2 MLN**  
RIN: 7



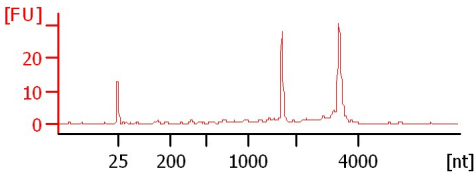
**3-2 LN**  
RIN: 7.90



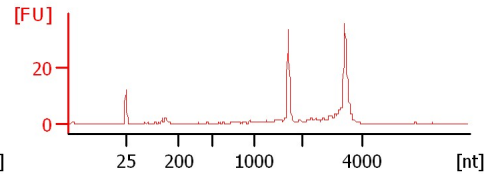
**3-2 LL**  
RIN: 7.50



**3-16 BLN**  
RIN: 8.40



**3-16 MLN**  
RIN: 8.70



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
BAL -3-3-1		✓	RIN: 8.80	
BAL -3-3-16		✓	RIN: 8.80	
BAL 10-3-16		✓	RIN: 6.60	
BC 4-3-5		✓	RIN:9	
BC 6-3-9		✓	RIN: 9.30	
BC 8-3-2		✓	RIN: 9.40	
3-2 BLN		✓	RIN: 7.10	
3-2 MLN		✓	RIN:7	
3-2 LN		✓	RIN: 7.90	
3-2 LL		✓	RIN: 7.50	
3-16 BLN		✓	RIN: 8.40	
3-16 MLN		✓	RIN: 8.70	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 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

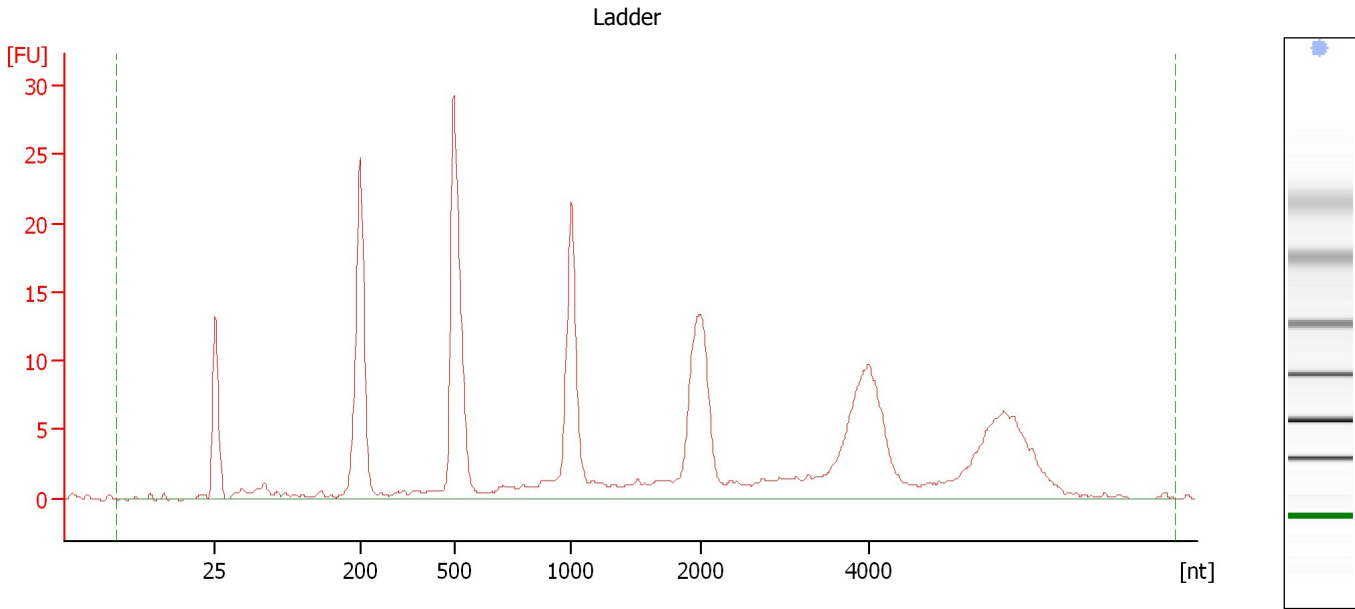
**Ladder**

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

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary**



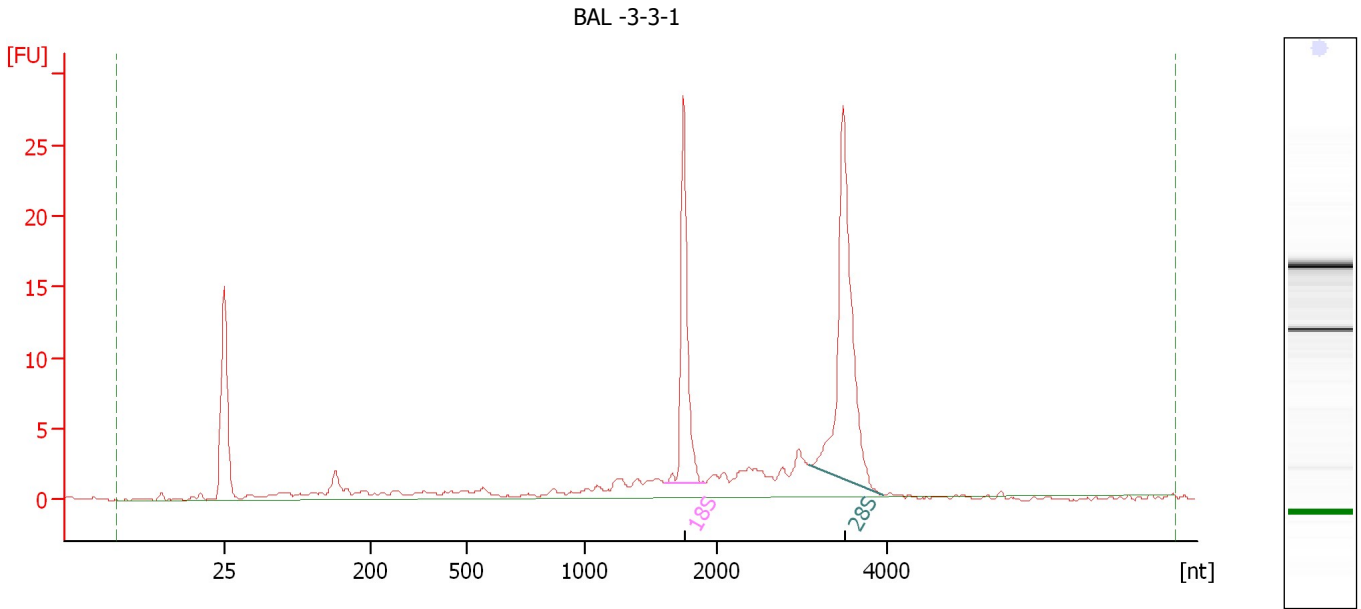
**Overall Results for Ladder**

RNA Area:	256.5	Result Flagging Color:	<span style="background-color: #ADD8E6; 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:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : BAL -3-3-1**

RNA Area: 113.3                      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 66 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7                      Result Flagging Label: RIN: 8.80

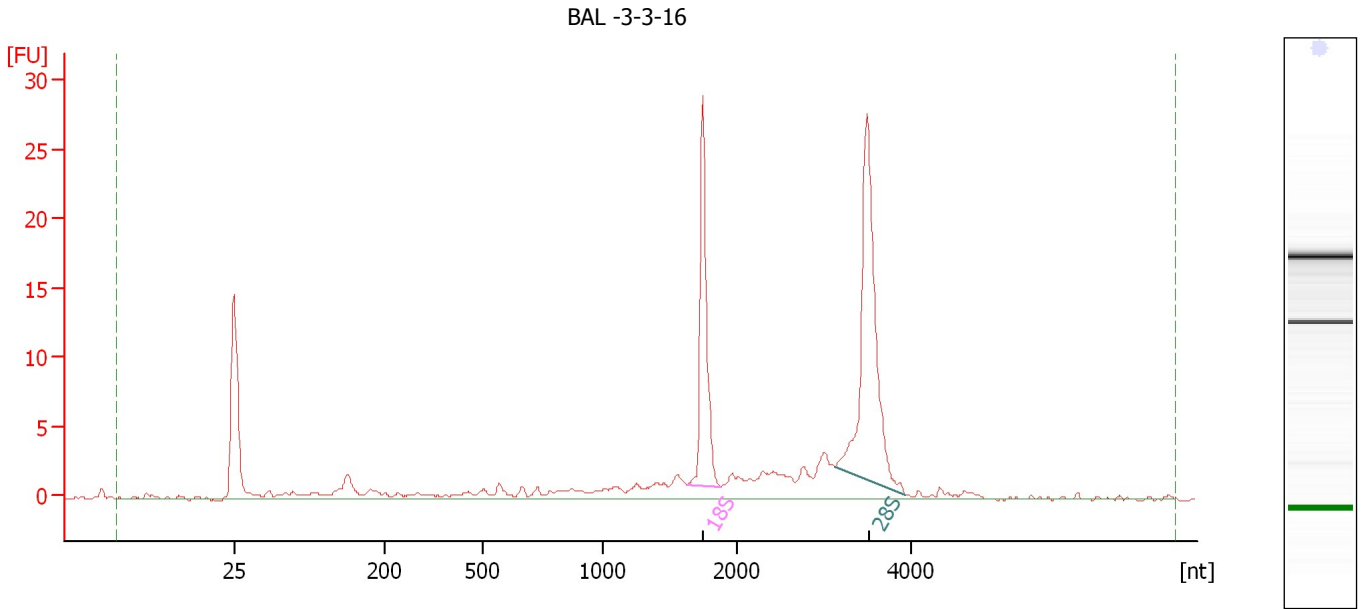
**Fragment table for sample 1 : BAL -3-3-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,597	1,914	21.4	18.9
28S	3,070	3,935	36.2	32.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : BAL -3-3-16**

RNA Area: 117.9                      RNA Integrity Number (RIN): 8.8 (B.02.08)  
RNA Concentration: 69 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7                      Result Flagging Label: RIN: 8.80

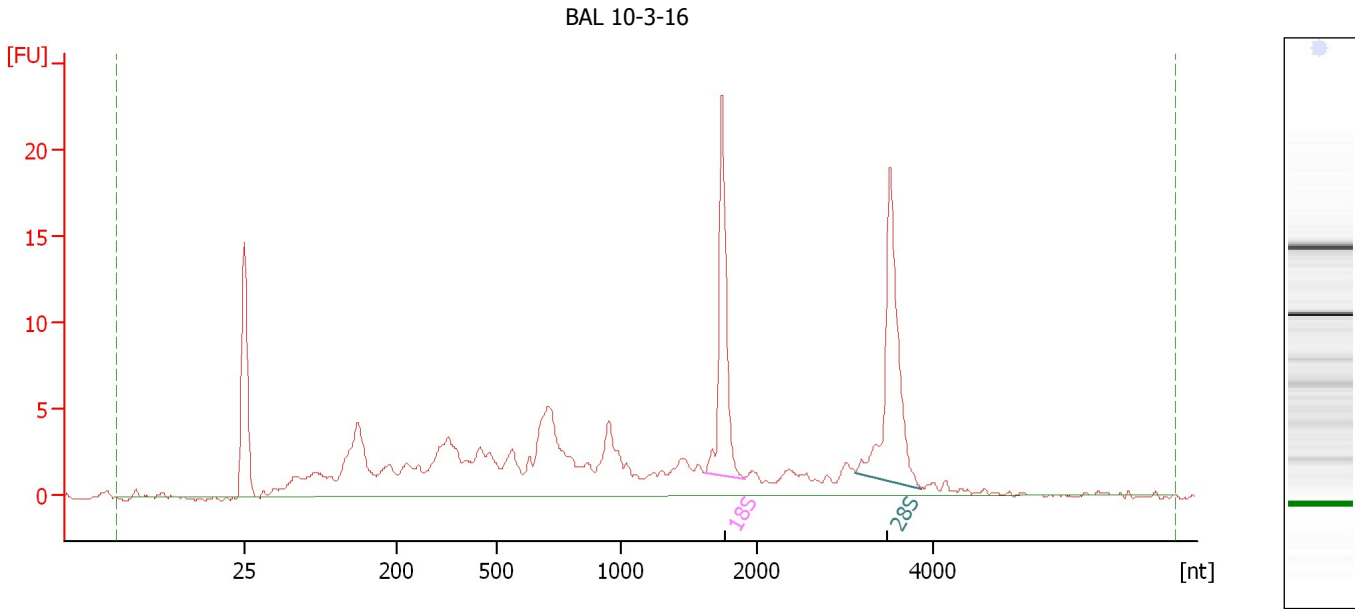
**Fragment table for sample 2 : BAL -3-3-16**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,880	21.2	18.0
28S	3,118	3,928	35.6	30.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : BAL 10-3-16**

RNA Area: 173.2                      RNA Integrity Number (RIN): 6.6 (B.02.08)  
RNA Concentration: 101 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.3                      Result Flagging Label: RIN: 6.60

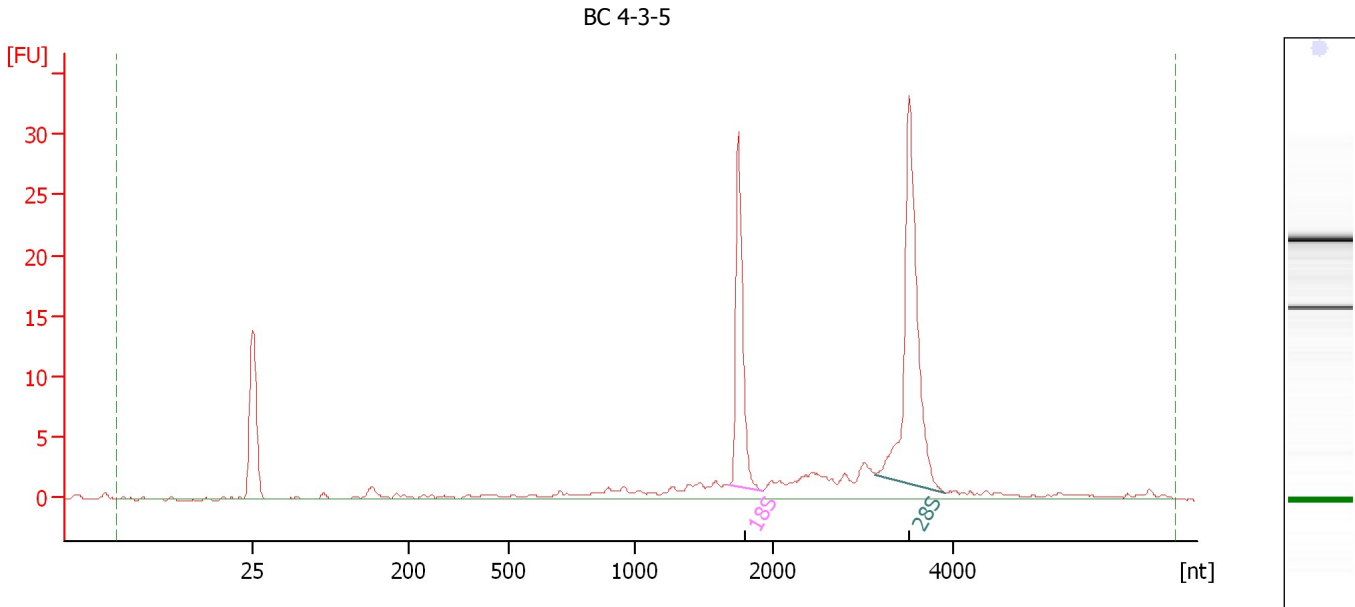
**Fragment table for sample 3 : BAL 10-3-16**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,620	1,910	17.8	10.3
28S	3,116	3,864	22.6	13.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : BC 4-3-5**

RNA Area: 109.4                      RNA Integrity Number (RIN): 9 (B.02.08)  
RNA Concentration: 64 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8                      Result Flagging Label: RIN:9

**Fragment table for sample 4 : BC 4-3-5**

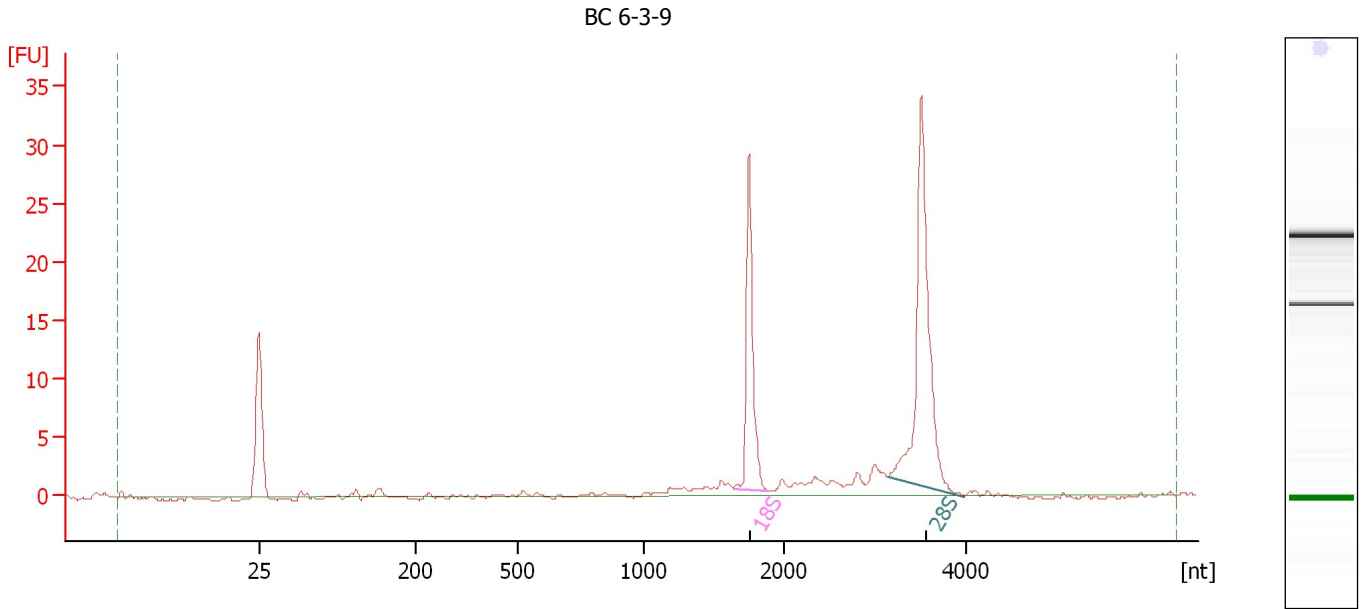
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	1,923	21.3	19.5
28S	3,140	3,912	38.3	35.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : BC 6-3-9**

RNA Area: 92.4                      RNA Integrity Number (RIN): 9.3 (B.02.08)  
RNA Concentration: 54 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.8              Result Flagging Label: RIN: 9.30

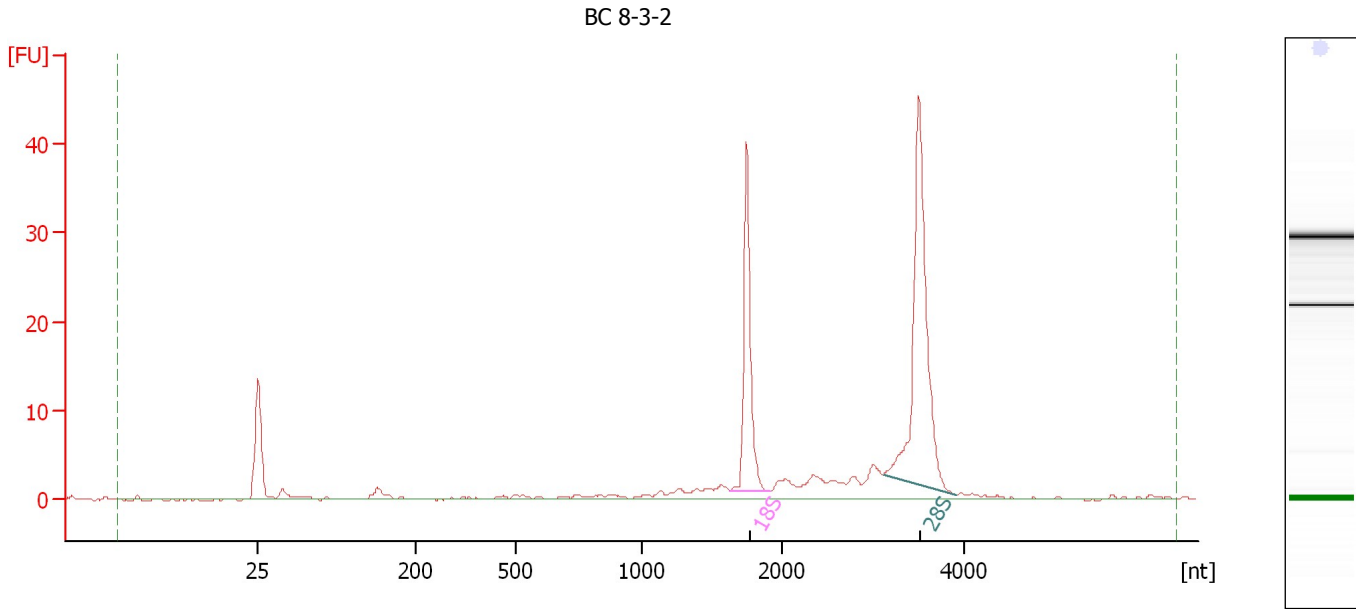
**Fragment table for sample 5 : BC 6-3-9**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	1,888	20.8	22.5
28S	3,133	3,979	37.8	40.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : BC 8-3-2**

RNA Area: 133.4                      RNA Integrity Number (RIN): 9.4 (B.02.08)  
RNA Concentration: 78 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.9              Result Flagging Label: RIN: 9.40

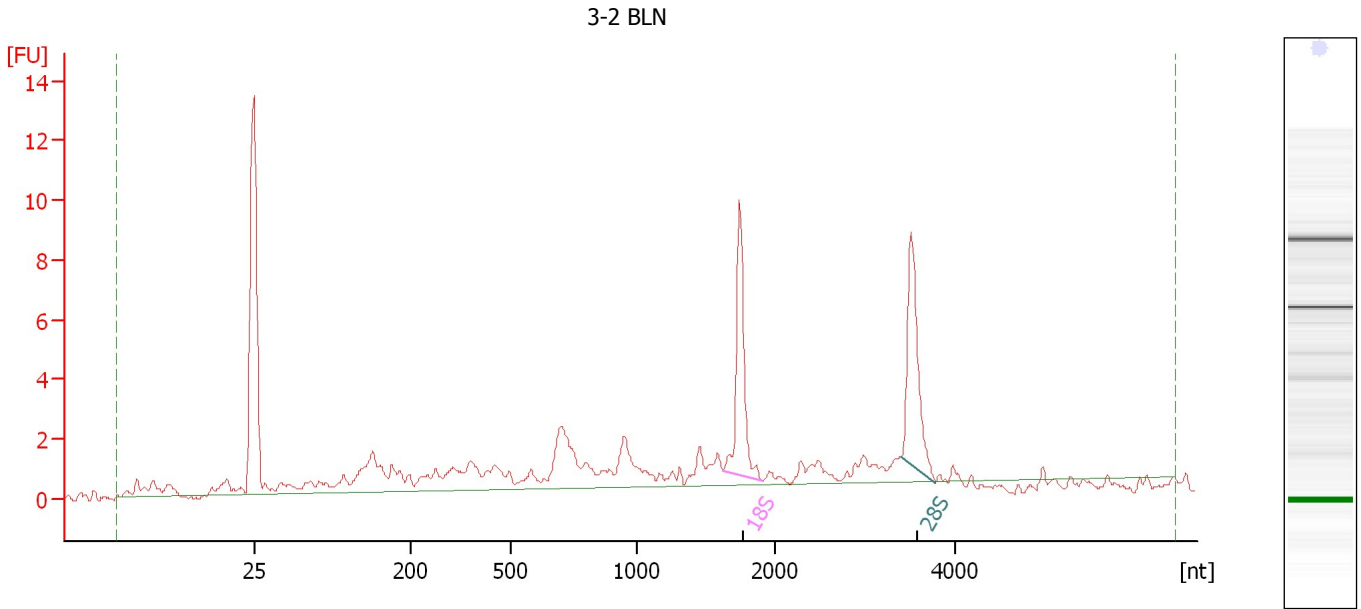
**Fragment table for sample 6 : BC 8-3-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,619	1,910	28.7	21.5
28S	3,110	3,912	53.4	40.0

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 3-2 BLN**

RNA Area: 61.7 RNA Integrity Number (RIN): 7.1 (B.02.08)  
RNA Concentration: 36 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.10

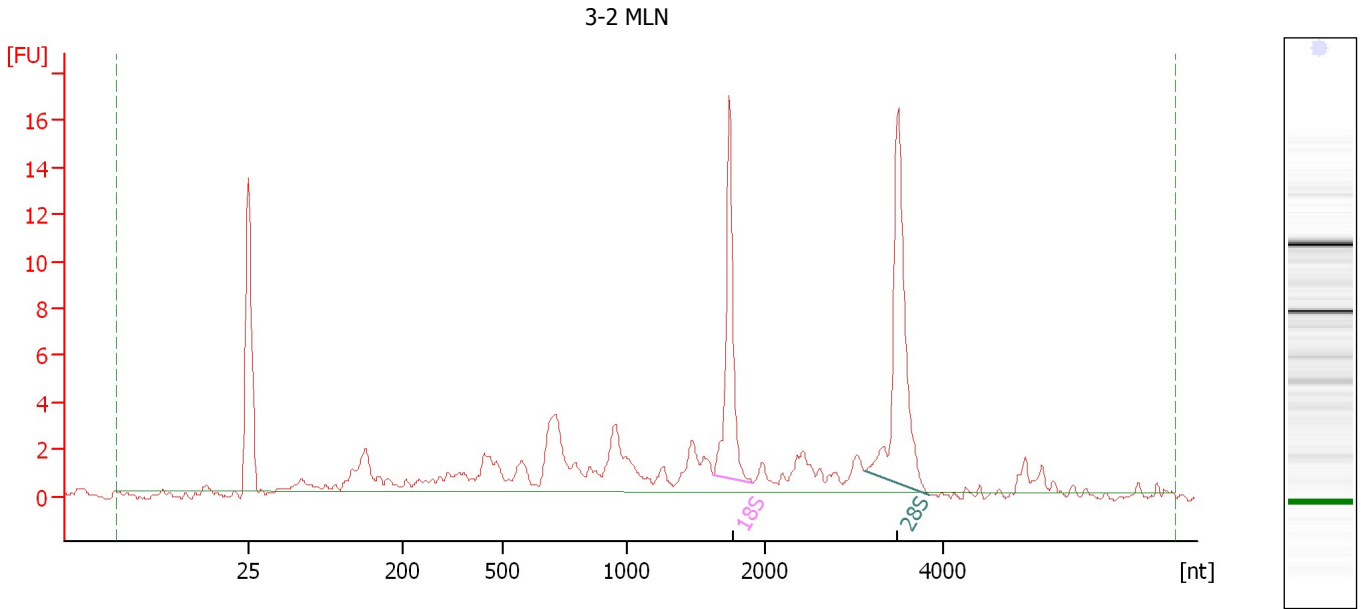
**Fragment table for sample 7 : 3-2 BLN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,908	7.3	11.9
28S	3,399	3,779	7.5	12.2

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
 Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 3-2 MLN**

RNA Area:	91.7	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	54 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]:	1.4	Result Flagging Label:	RIN:7

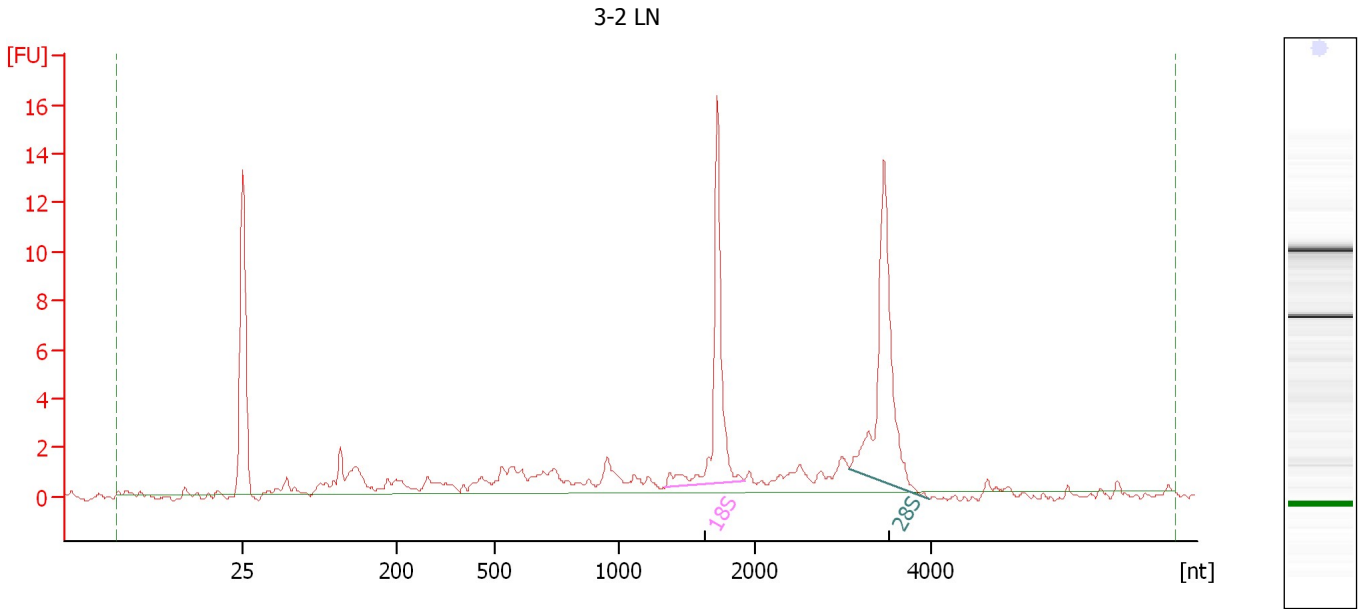
**Fragment table for sample 8 : 3-2 MLN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,920	12.9	14.1
28S	3,122	3,840	17.9	19.5

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
 Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 3-2 LN**

RNA Area:	69.7	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	41 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: 7.90

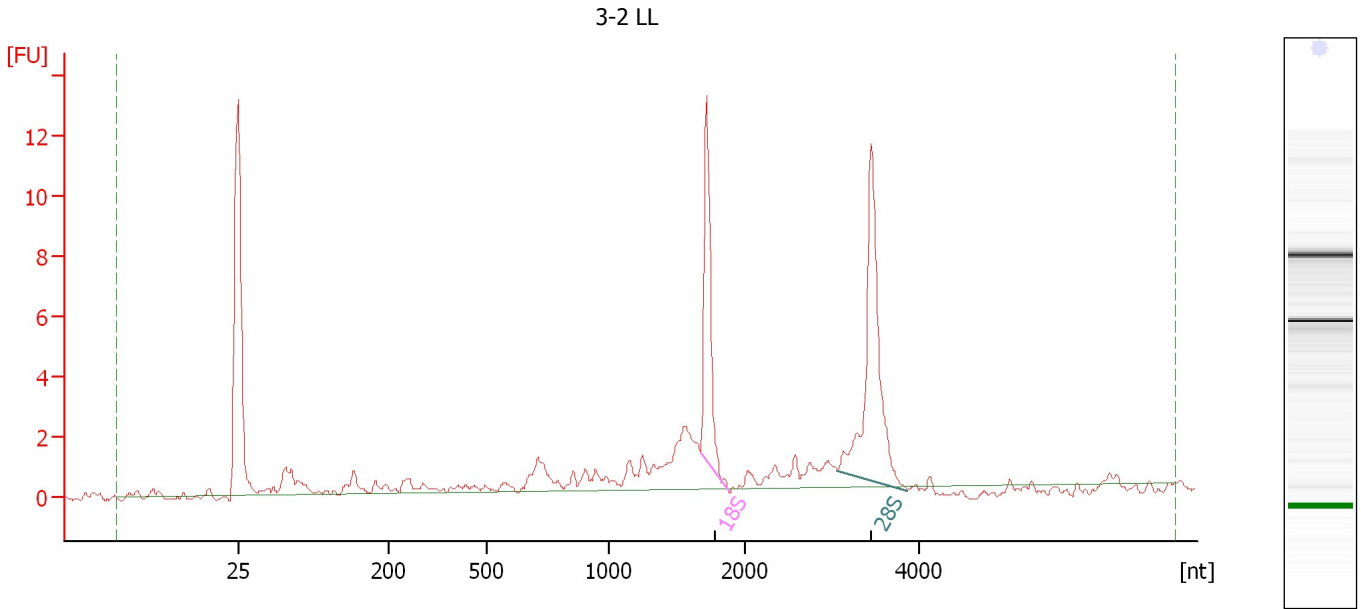
**Fragment table for sample 9 : 3-2 LN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,345	1,925	13.4	19.3
28S	3,081	3,976	16.8	24.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : 3-2 LL**

RNA Area: 53.7                      RNA Integrity Number (RIN): 7.5 (B.02.08)  
RNA Concentration: 31 ng/μl                      Result Flagging Color:   
rRNA Ratio [28s / 18s]: 1.7                      Result Flagging Label: RIN: 7.50

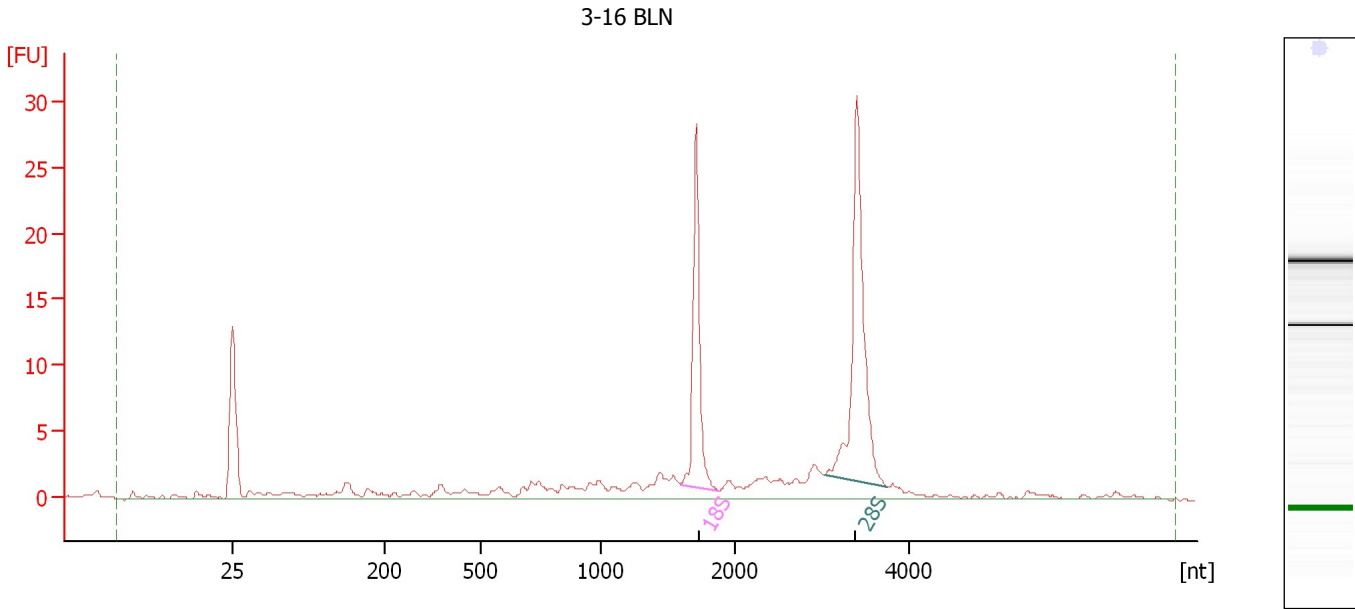
**Fragment table for sample 10 : 3-2 LL**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	1,882	8.4	15.7
28S	3,064	3,870	14.3	26.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 3-16 BLN**

RNA Area:	122.9	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	72 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]:	1.6	Result Flagging Label:	RIN: 8.40

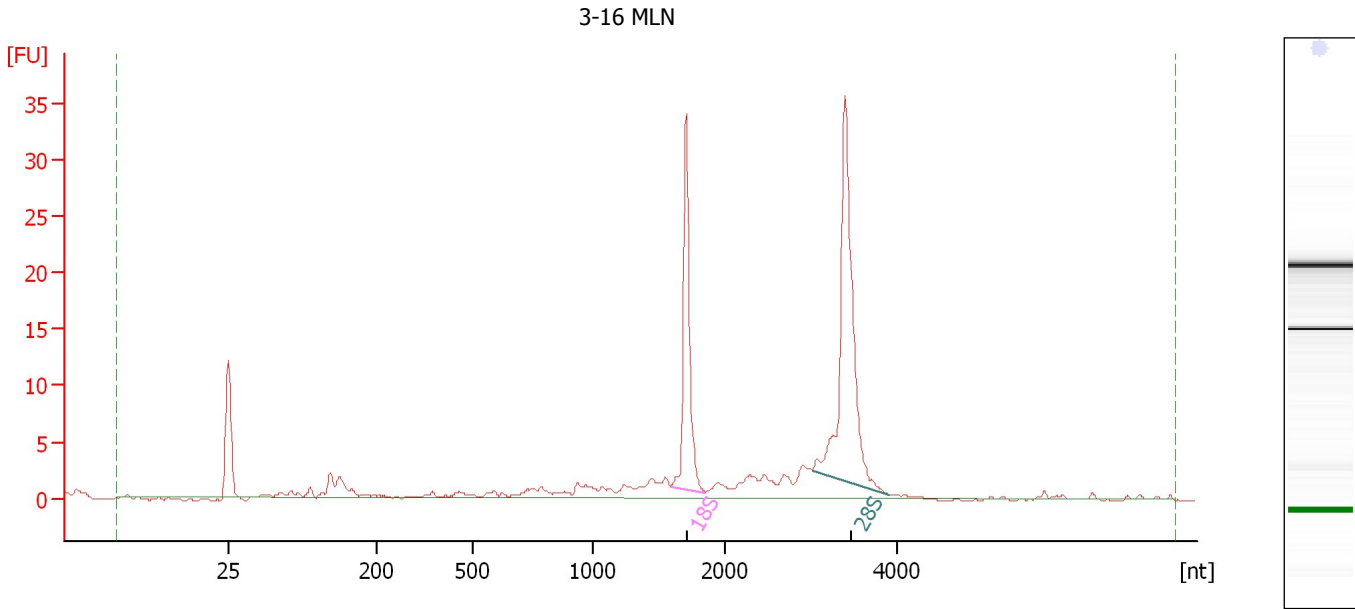
**Fragment table for sample 11 : 3-16 BLN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,584	1,872	20.3	16.5
28S	3,021	3,747	32.7	26.6

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
 Modified: 9/21/2018 2:28:38 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : 3-16 MLN**

RNA Area:	129.6	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	76 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]:	1.7	Result Flagging Label:	RIN: 8.70

**Fragment table for sample 12 : 3-16 MLN**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,852	24.4	18.8
28S	3,015	3,910	42.5	32.8



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2018-09-21\2018-09-21\_001.xad

Created: 9/21/2018 2:04:50 PM  
Modified: 9/21/2018 2:28:38 PM

**Gel Image**

