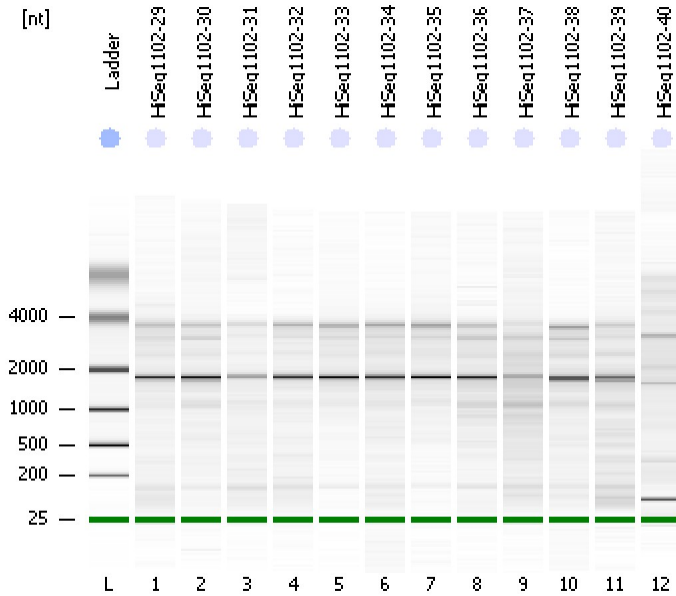


Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 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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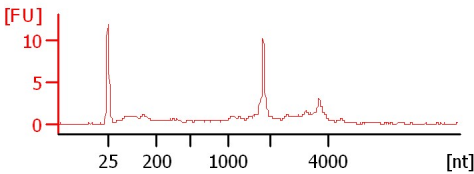
Chip Information:

Chip Lot #:

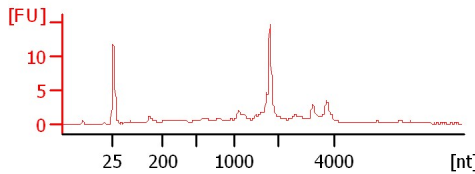
Reagent Kit Lot #:

Chip Comments:

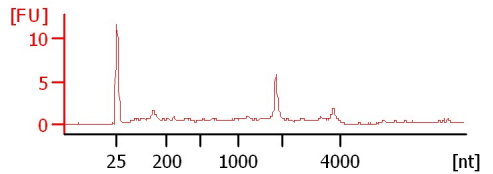
HiSeq1102-29  
RIN: 6.90



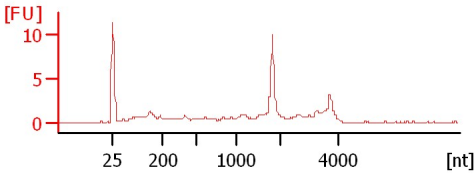
HiSeq1102-30  
RIN: 7.50



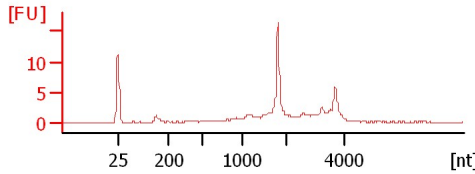
HiSeq1102-31  
RIN: 6.80



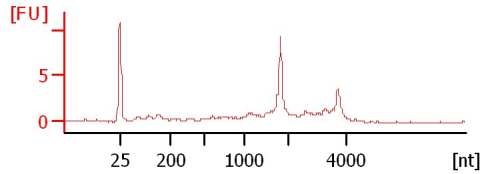
HiSeq1102-32  
RIN: 7.10



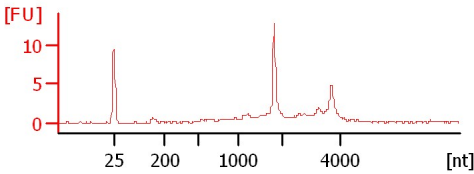
HiSeq1102-33  
RIN: 7.90



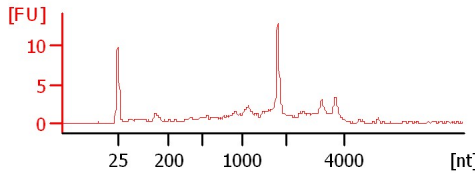
HiSeq1102-34  
RIN: 7



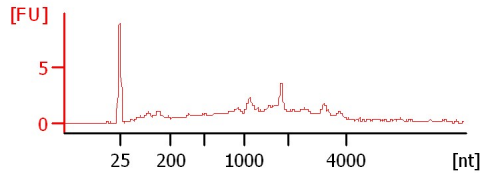
HiSeq1102-35  
RIN: 7.40



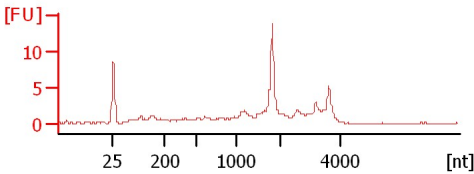
HiSeq1102-36  
RIN: 6.90



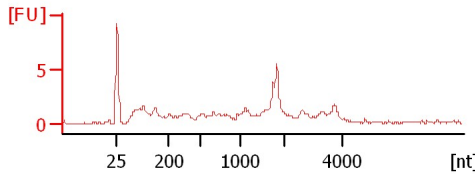
HiSeq1102-37  
RIN: 4.50



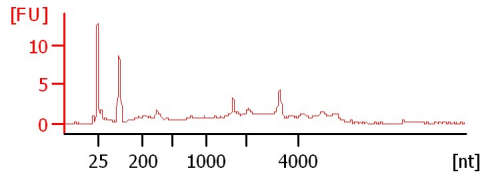
HiSeq1102-38  
RIN: 7.50



HiSeq1102-39  
RIN: 6.30



HiSeq1102-40  
RIN: 3.60



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
HiSeq1102-29		✓	RIN: 6.90	
HiSeq1102-30		✓	RIN: 7.50	
HiSeq1102-31		✓	RIN: 6.80	
HiSeq1102-32		✓	RIN: 7.10	
HiSeq1102-33		✓	RIN: 7.90	
HiSeq1102-34		✓	RIN:7	
HiSeq1102-35		✓	RIN: 7.40	
HiSeq1102-36		✓	RIN: 6.90	
HiSeq1102-37		✓	RIN: 4.50	
HiSeq1102-38		✓	RIN: 7.50	
HiSeq1102-39		✓	RIN: 6.30	
HiSeq1102-40		✓	RIN: 3.60	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 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

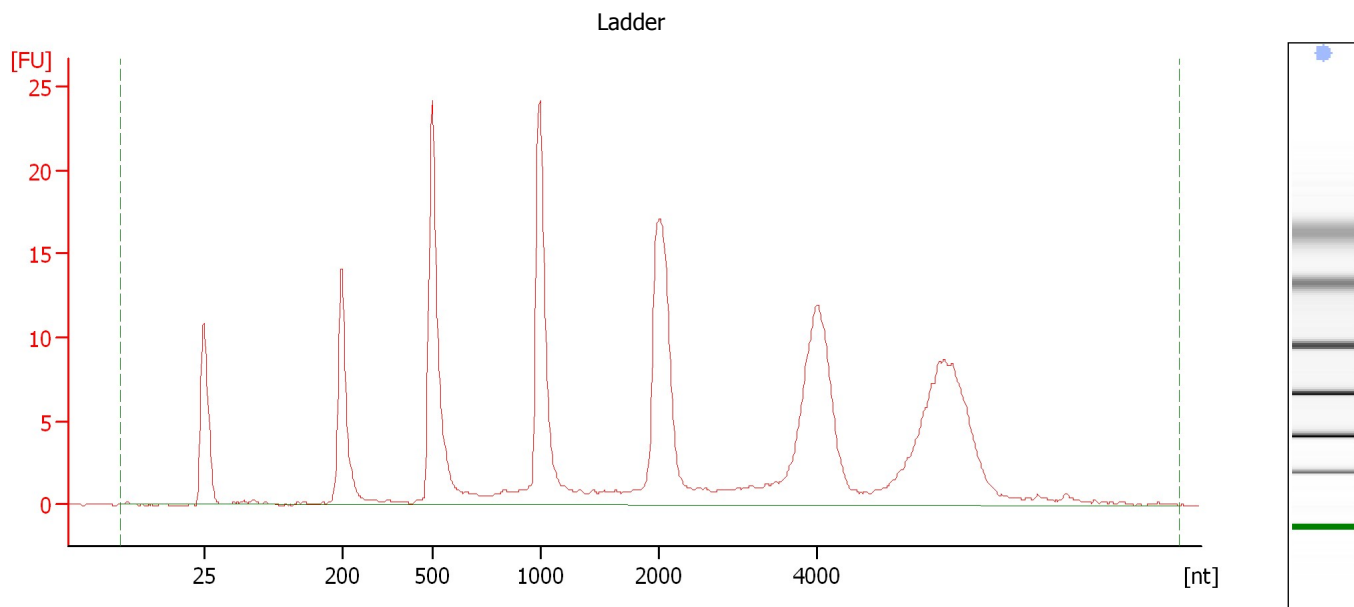
**Ladder**

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\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary**



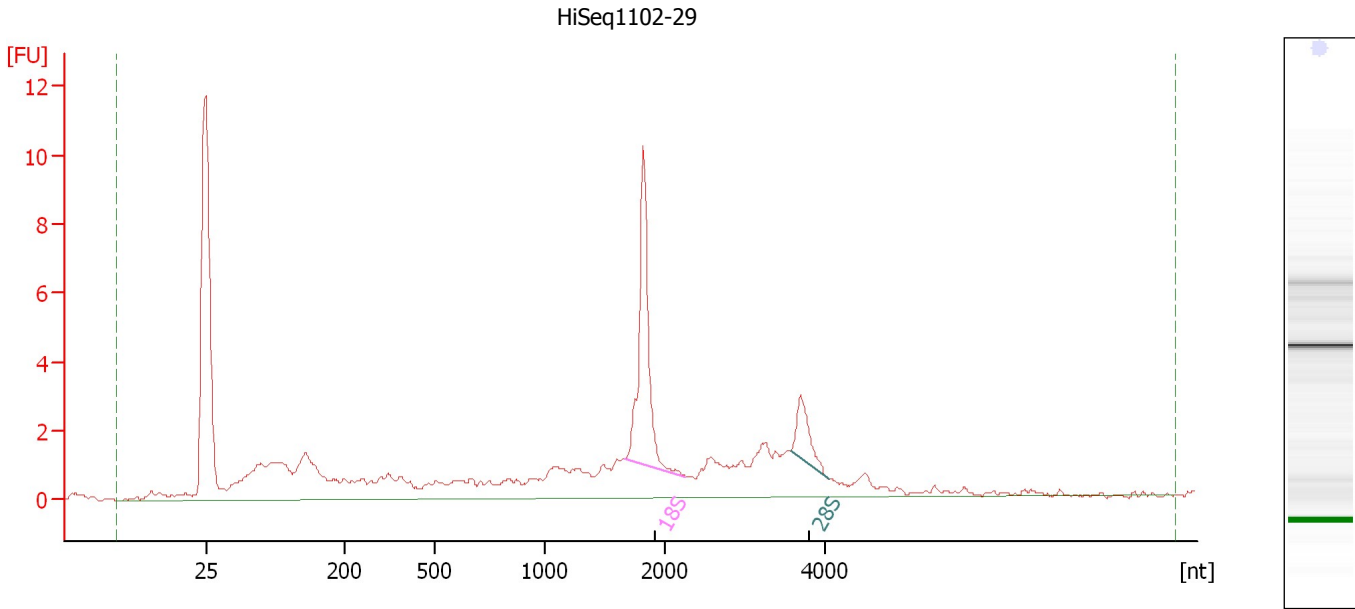
**Overall Results for Ladder**

RNA Area:	231.6	Result Flagging Color:	<span style="background-color: #6699ff; 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:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : HiSeq1102-29**

RNA Area:	74.0	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	48 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: 6.90

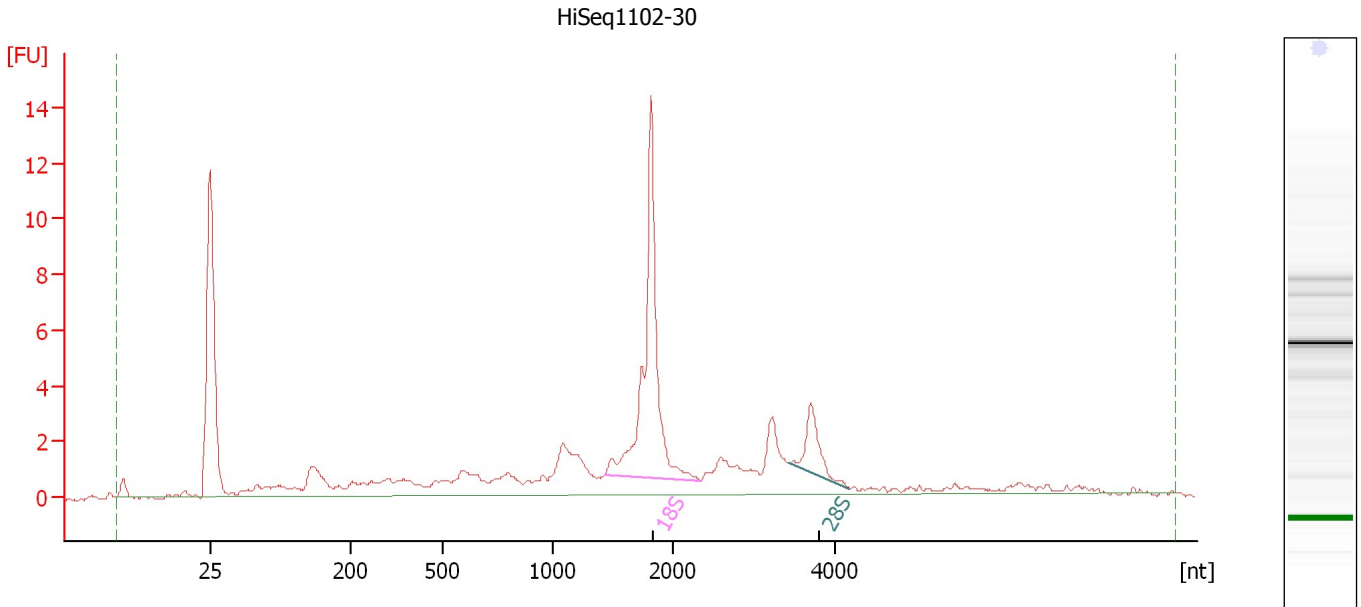
**Fragment table for sample 1 : HiSeq1102-29**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	2,246	9.9	13.3
28S	3,556	4,038	2.5	3.3

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HiSeq1102-30**

RNA Area:	76.0	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	49 ng/μl		
rRNA Ratio [28s / 18s]:	0.2	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.50

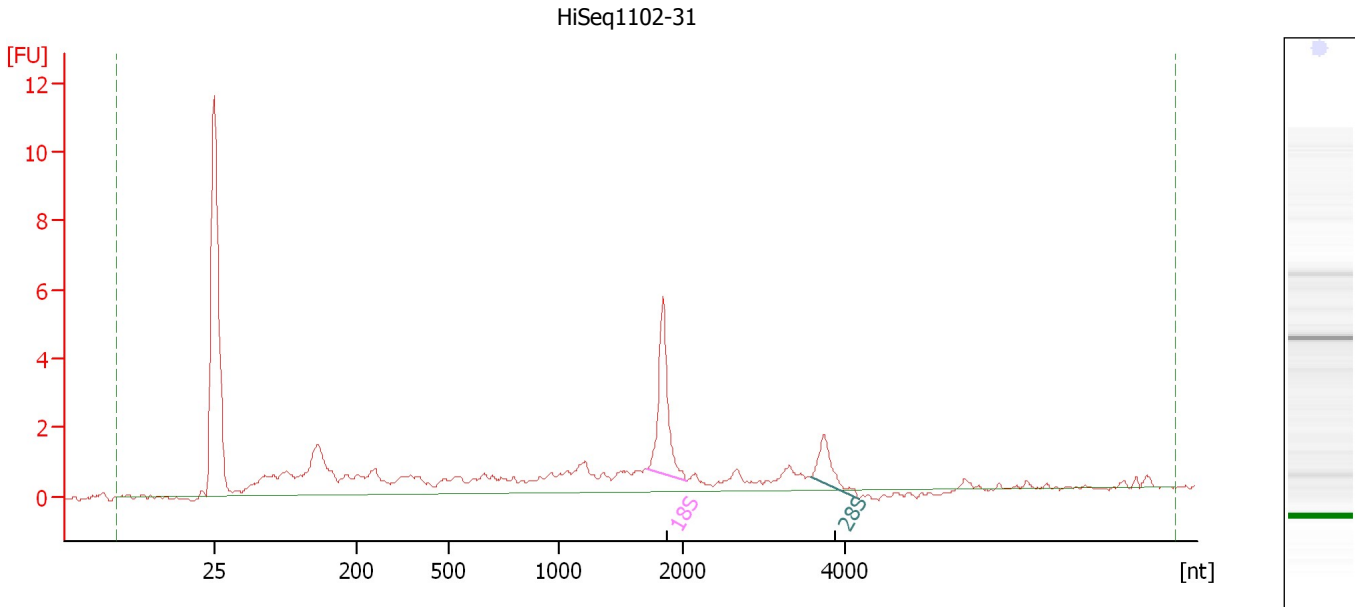
**Fragment table for sample 2 : HiSeq1102-30**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,428	2,328	19.8	26.1
28S	3,429	4,185	3.4	4.5

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HiSeq1102-31**

RNA Area: 46.0 RNA Integrity Number (RIN): 6.8 (B.02.08)  
RNA Concentration: 30 ng/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 6.80

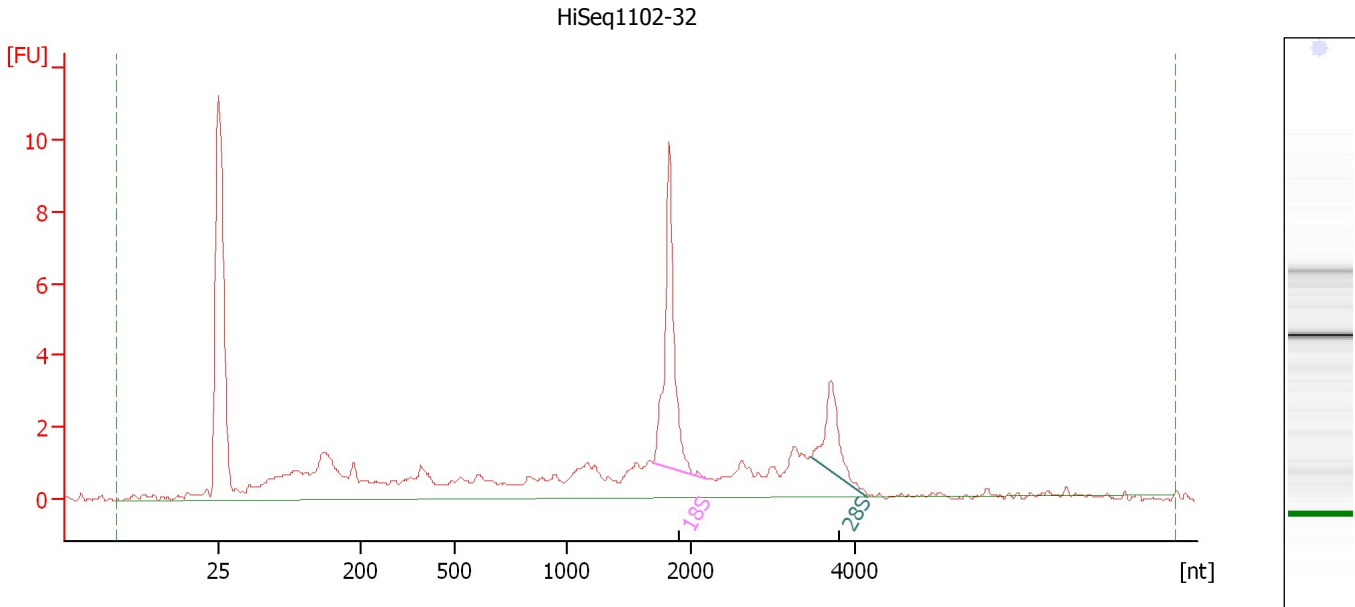
**Fragment table for sample 3 : HiSeq1102-31**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,714	2,054	5.4	11.8
28S	3,579	4,184	2.0	4.4

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : HiSeq1102-32**

RNA Area:	64.6	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	42 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]:	0.4	Result Flagging Label:	RIN: 7.10

**Fragment table for sample 4 : HiSeq1102-32**

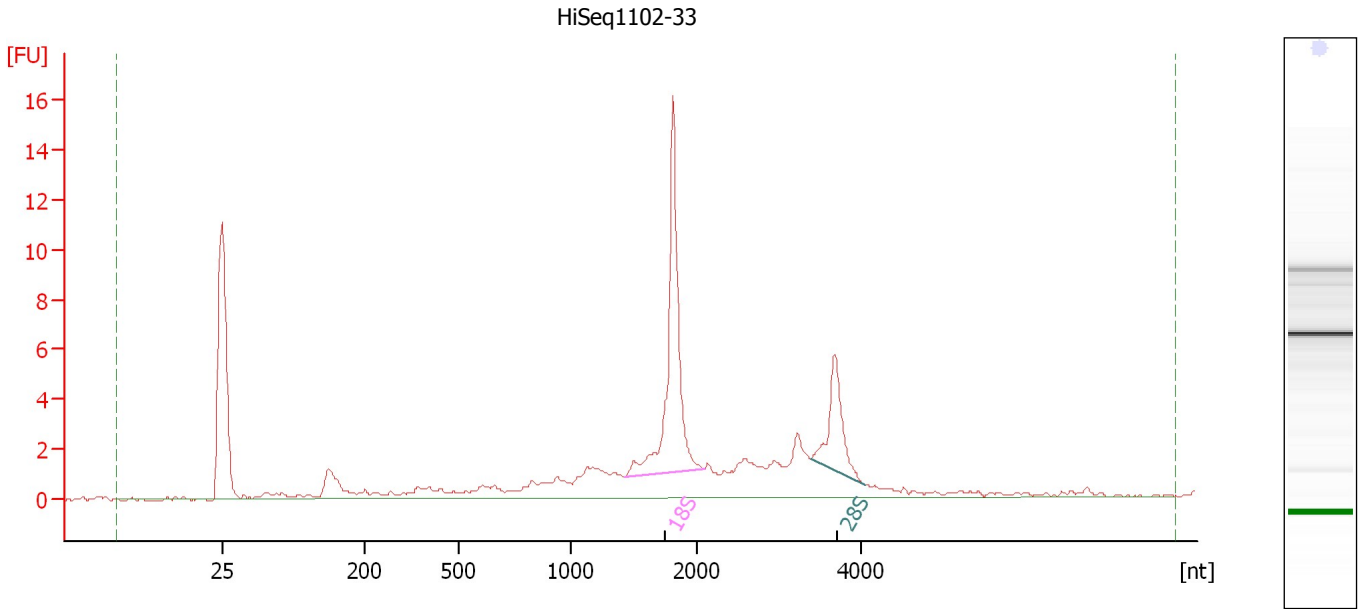
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,694	2,215	9.8	15.2
28S	3,467	4,158	3.6	5.6



Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
 Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : HiSeq1102-33**

RNA Area:	74.5	RNA Integrity Number (RIN):	7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	48 ng/μl		
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.90

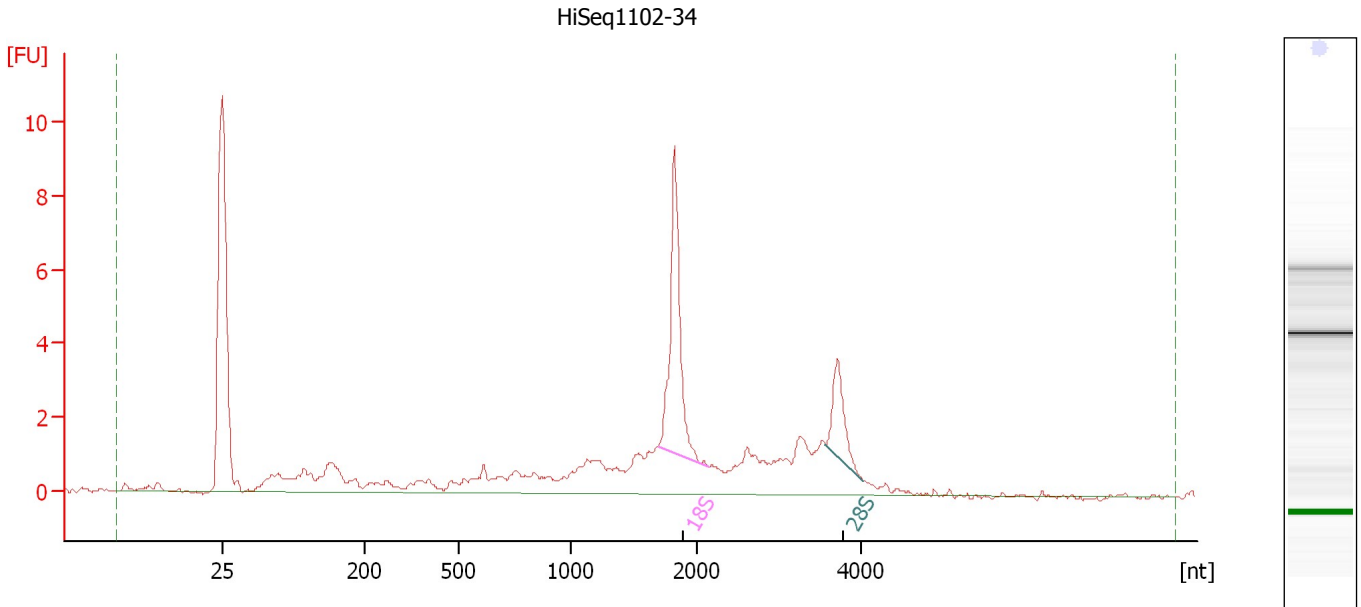
**Fragment table for sample 5 : HiSeq1102-33**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,424	2,101	18.2	24.4
28S	3,384	4,044	6.1	8.2

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HiSeq1102-34**

RNA Area: 58.6                      RNA Integrity Number (RIN): 7 (B.02.08)  
RNA Concentration: 38 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.3              Result Flagging Label: RIN:7

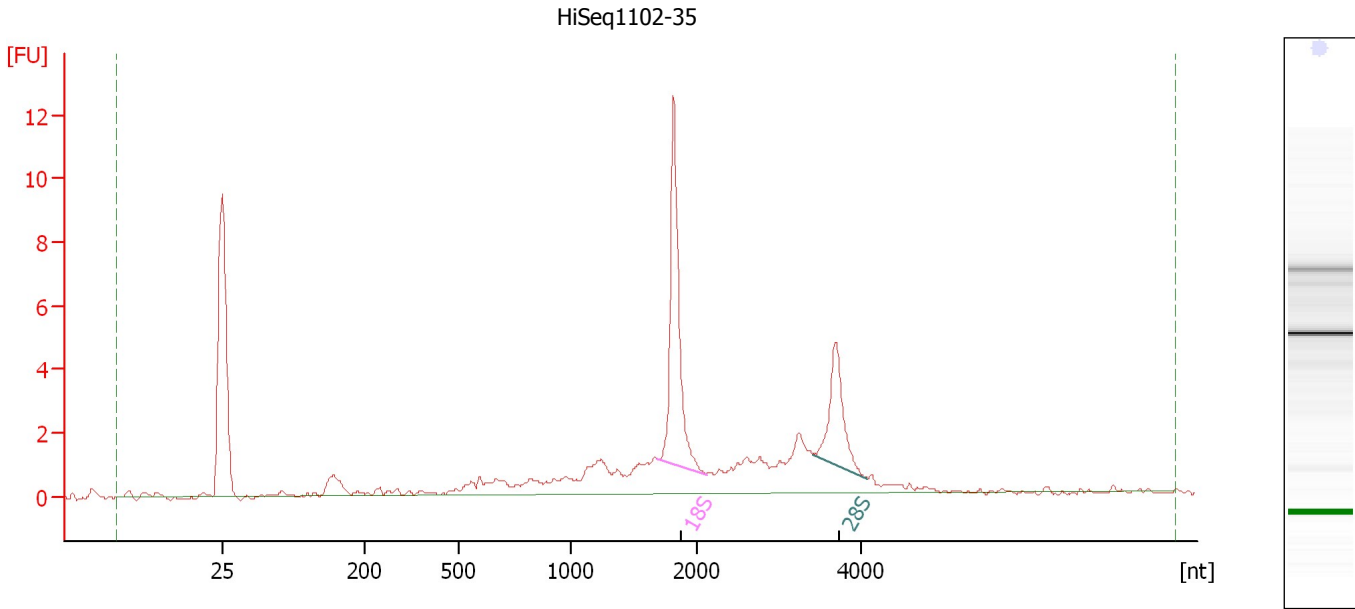
**Fragment table for sample 6 : HiSeq1102-34**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,698	2,152	9.1	15.6
28S	3,565	4,032	3.0	5.1

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HiSeq1102-35**

RNA Area: 53.9                      RNA Integrity Number (RIN): 7.4 (B.02.08)  
RNA Concentration: 35 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.5              Result Flagging Label: RIN: 7.40

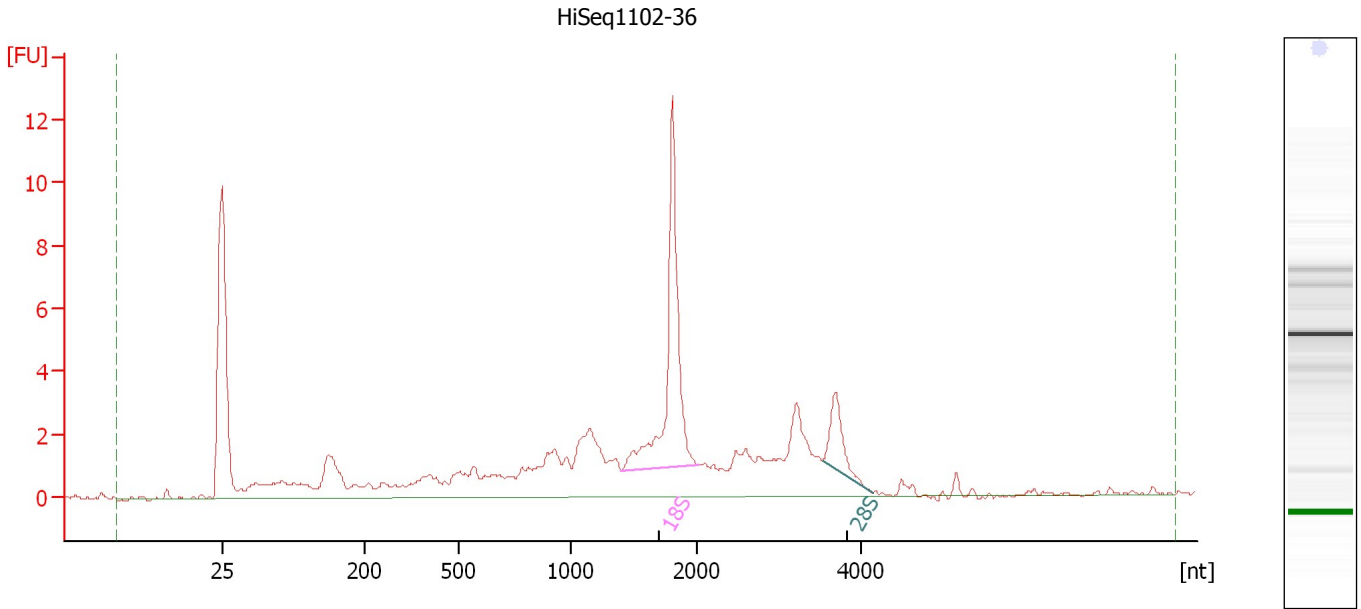
**Fragment table for sample 7 : HiSeq1102-35**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,689	2,126	11.4	21.2
28S	3,409	4,070	5.3	9.7

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : HiSeq1102-36**

RNA Area: 84.4                      RNA Integrity Number (RIN): 6.9 (B.02.08)  
RNA Concentration: 55 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2              Result Flagging Label: RIN: 6.90

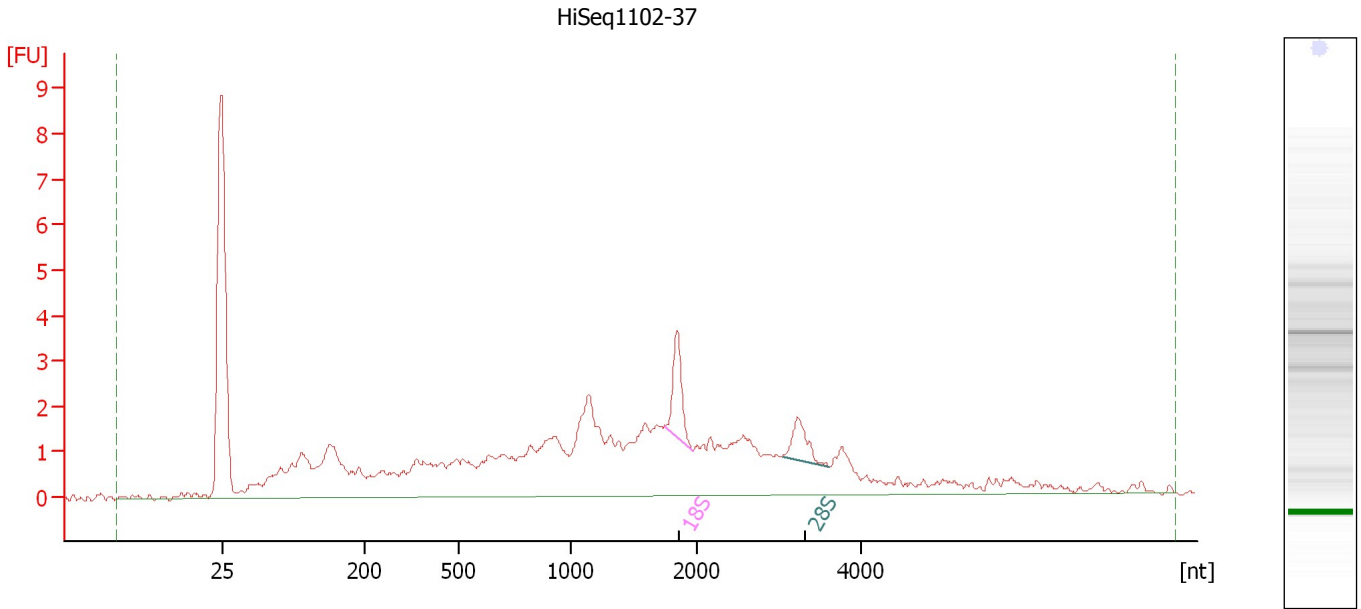
**Fragment table for sample 8 : HiSeq1102-36**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,398	2,023	14.5	17.1
28S	3,526	4,135	3.0	3.6

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : HiSeq1102-37**

RNA Area: 75.2                      RNA Integrity Number (RIN): 4.5 (B.02.08)  
RNA Concentration: 49 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.7              Result Flagging Label: RIN: 4.50

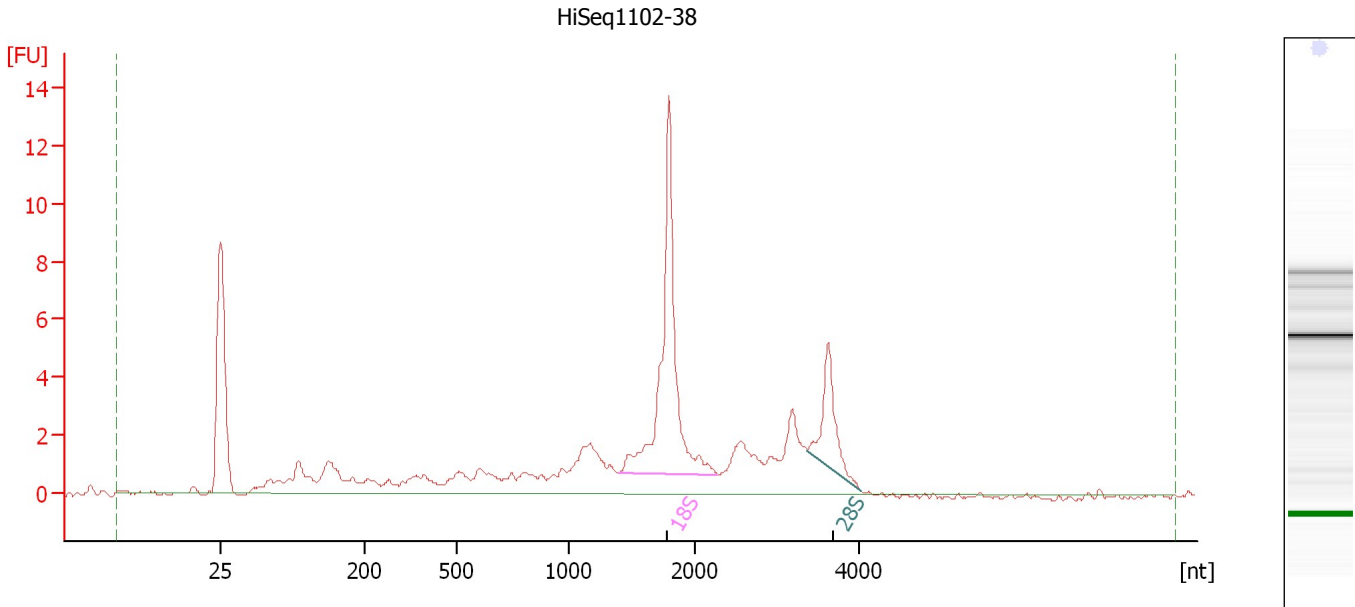
**Fragment table for sample 9 : HiSeq1102-37**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,749	1,972	2.2	3.0
28S	3,047	3,617	1.5	1.9

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
 Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : HiSeq1102-38**

RNA Area:	77.7	RNA Integrity Number (RIN):	7.5 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	50 ng/μl		
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
		Result Flagging Label:	RIN: 7.50

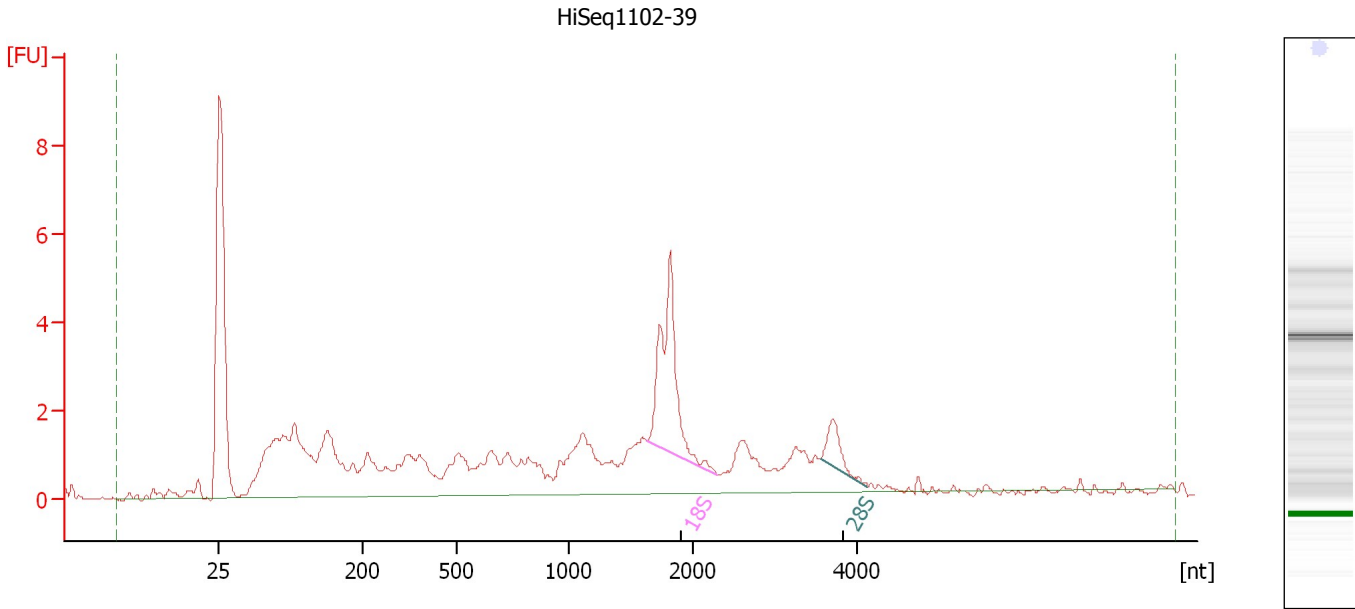
**Fragment table for sample 10 : HiSeq1102-38**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,388	2,281	19.7	25.4
28S	3,372	4,022	5.4	6.9

Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : HiSeq1102-39**

RNA Area: 71.8                      RNA Integrity Number (RIN): 6.3 (B.02.08)  
RNA Concentration: 47 ng/μl              Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2              Result Flagging Label: RIN: 6.30

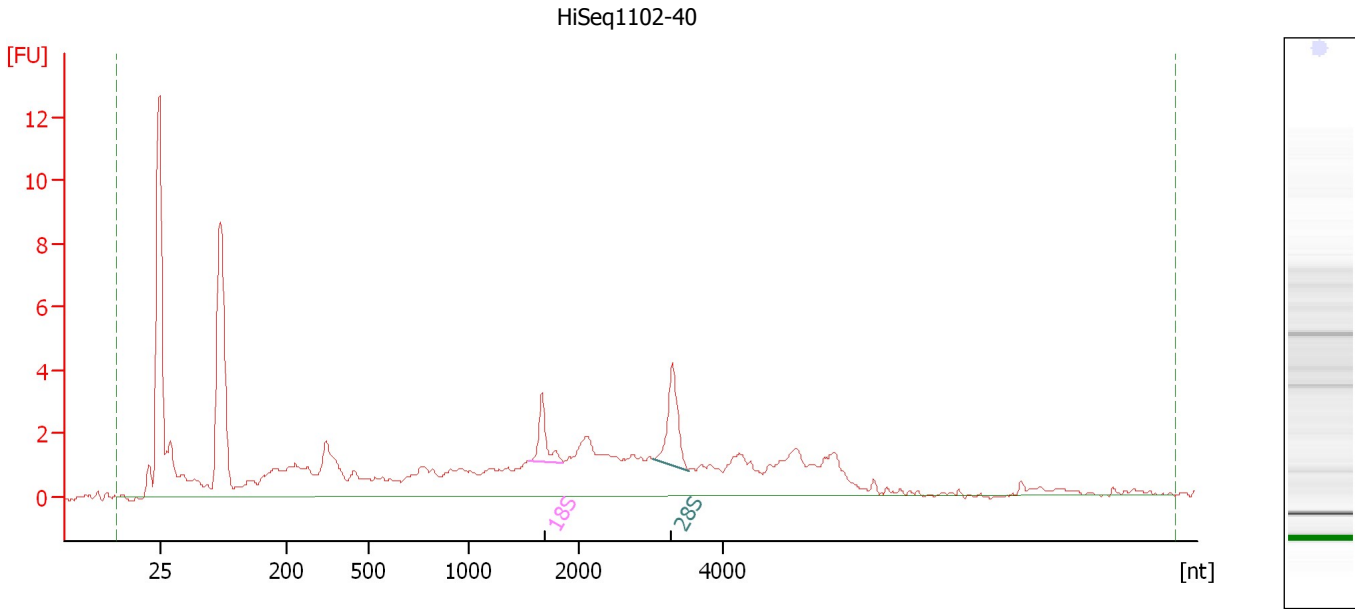
**Fragment table for sample 11 : HiSeq1102-39**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	2,307	7.8	10.8
28S	3,556	4,129	1.4	2.0

Assay Class: Eukaryote Total RNA Nano  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
 Modified: 10/12/2017 12:49:31 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 12 : HiSeq1102-40**

RNA Area:	96.5	RNA Integrity Number (RIN):	3.6 (B.02.08)
RNA Concentration:	62 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: 3.60

**Fragment table for sample 12 : HiSeq1102-40**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,558	1,869	2.2	2.3
28S	3,038	3,523	3.8	4.0



Assay Class: Eukaryote Total RNA Nano  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12\_002.xad

Created: 10/12/2017 12:25:42 PM  
Modified: 10/12/2017 12:49:31 PM

**Gel Image**

