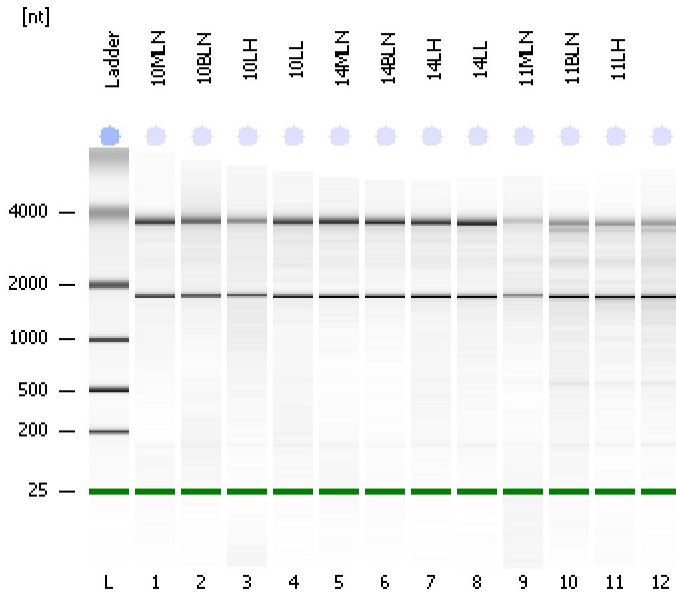


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
Modified: 11/28/2017 4:50:14 PM

Electrophoresis File Run Summary



Instrument Information:

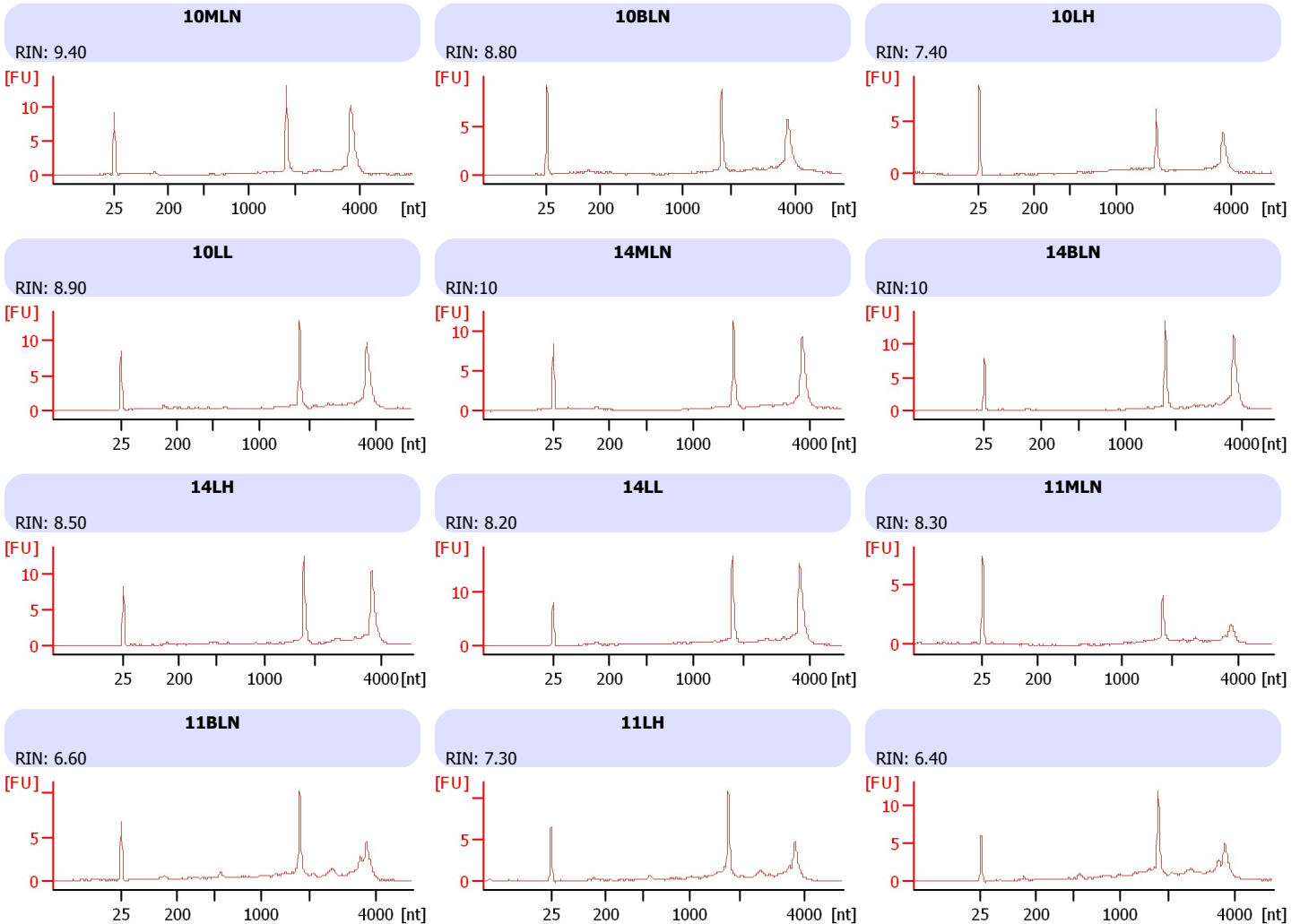
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
 Modified: 11/28/2017 4:50:14 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
10MLN		✓	RIN: 9.40	
10BLN		✓	RIN: 8.80	
10LH		✓	RIN: 7.40	
10LL		✓	RIN: 8.90	
14MLN		✓	RIN:10	
14BLN		✓	RIN:10	
14LH		✓	RIN: 8.50	
14LL		✓	RIN: 8.20	
11MLN		✓	RIN: 8.30	
11BLN		✓	RIN: 6.60	
11LH		✓	RIN: 7.30	
		✓	RIN: 6.40	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
Modified: 11/28/2017 4:50:14 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ μ 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

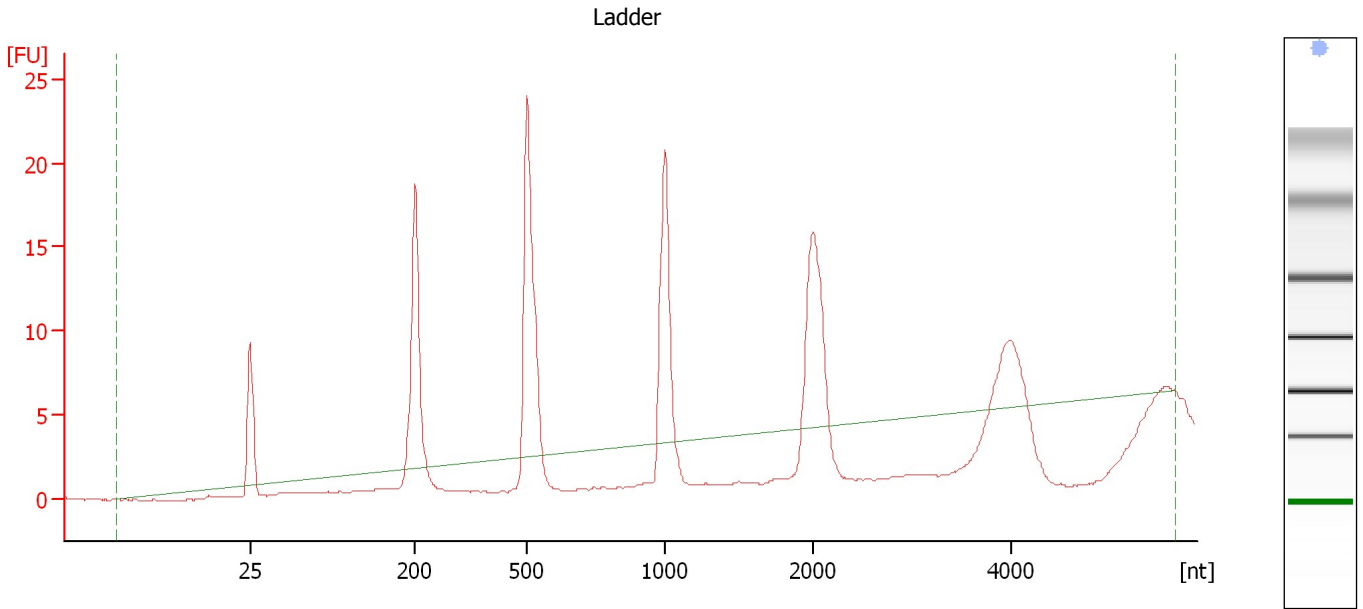
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
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Electropherogram Summary



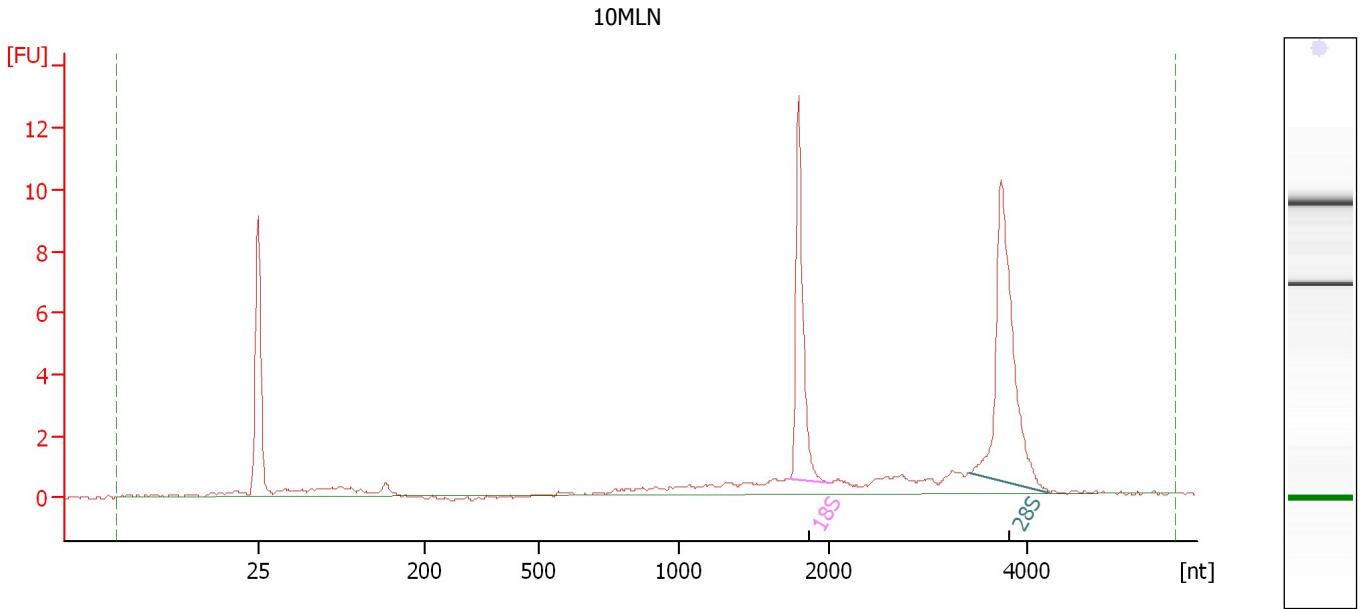
Overall Results for Ladder

RNA Area:	89.8	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 10MLN

RNA Area: 45.4 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 76 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.40

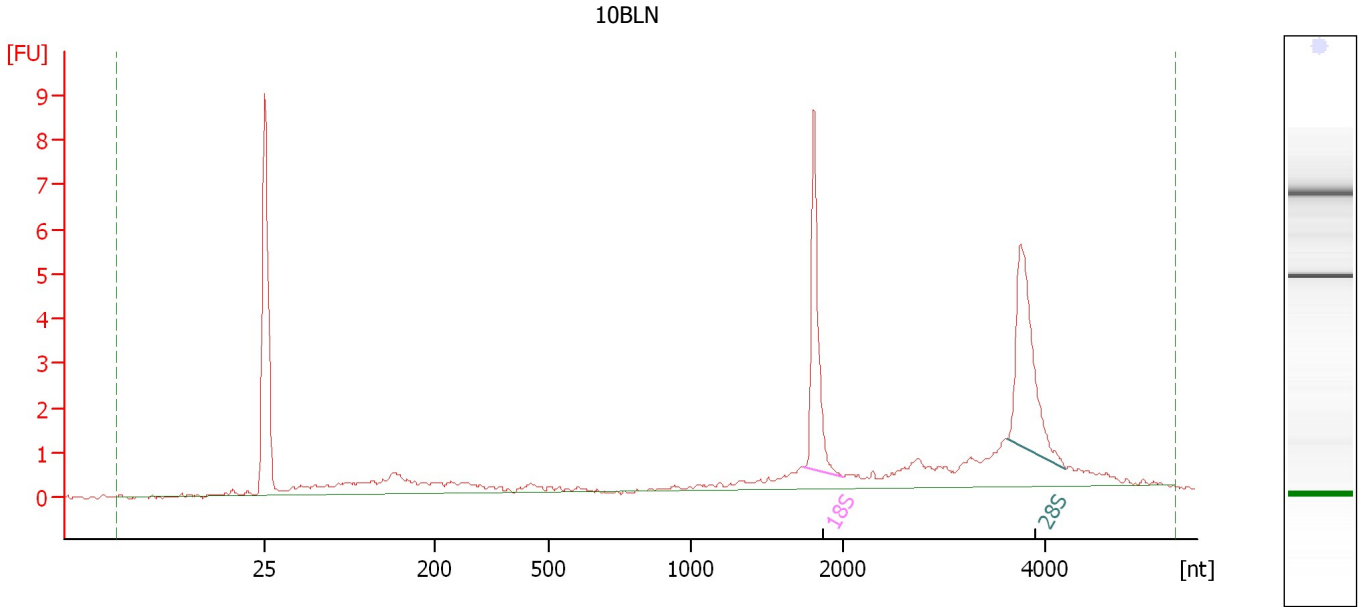
Fragment table for sample 1 : 10MLN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,729	2,030	9.1	20.1
28S	3,413	4,218	14.7	32.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : 10BLN

RNA Area:	36.8	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	62 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.80

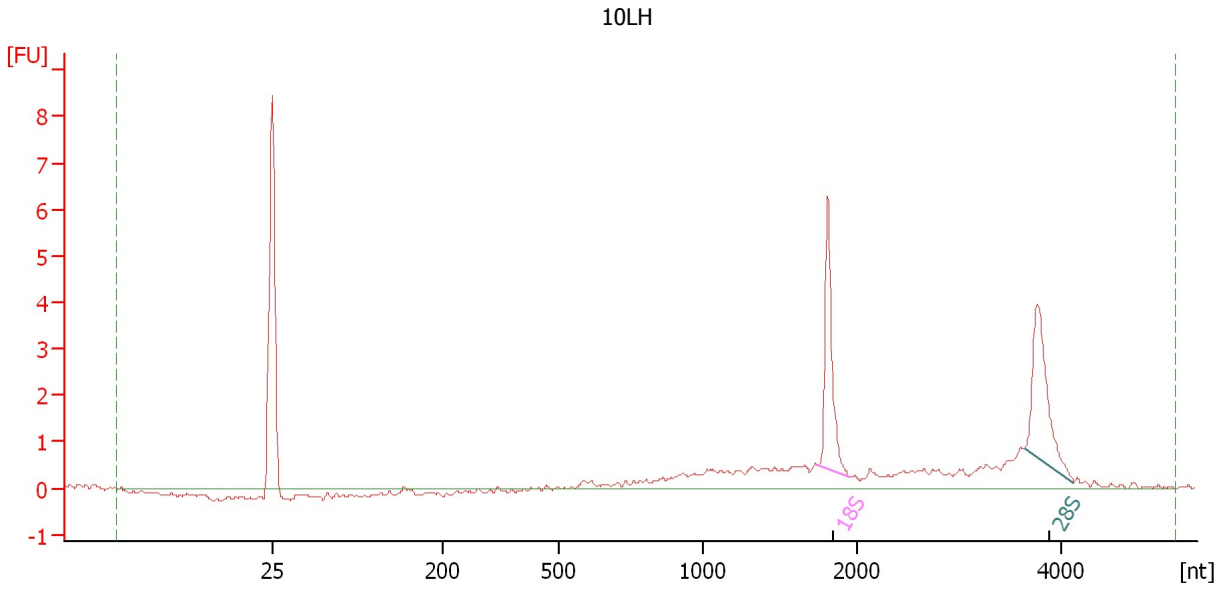
Fragment table for sample 2 : 10BLN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,731	1,997	5.8	15.6
28S	3,615	4,197	6.7	18.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 10LH

RNA Area: 23.4 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 39 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.40

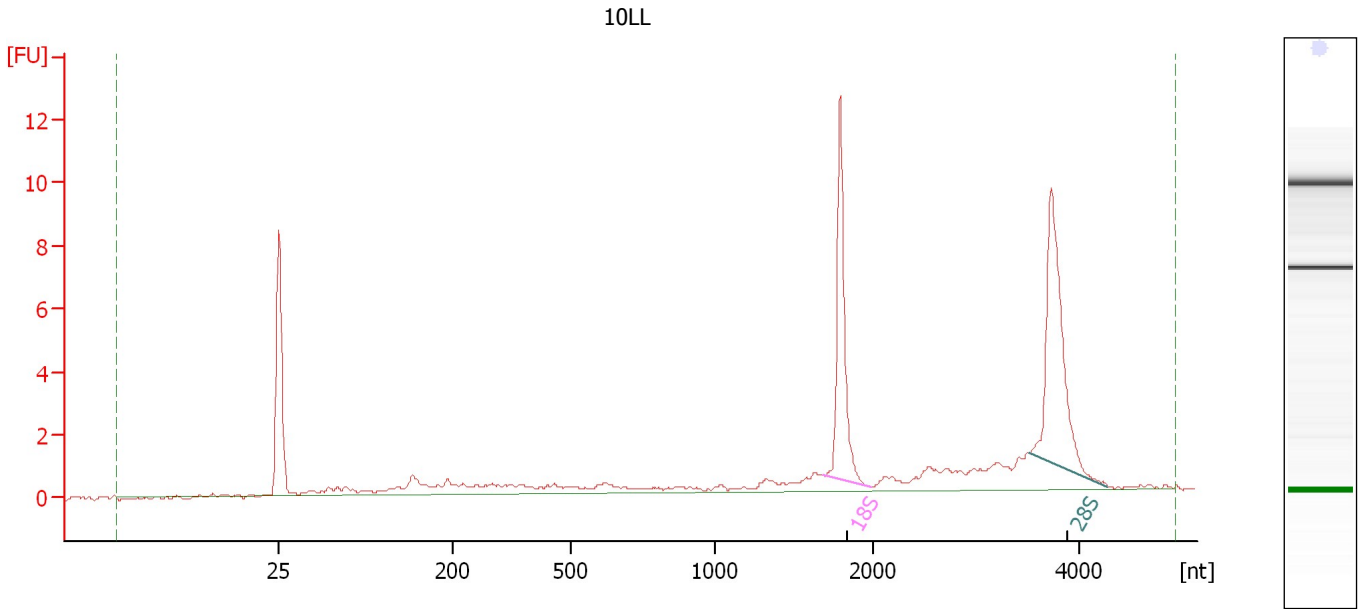
Fragment table for sample 3 : 10LH

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,747	1,955	4.2	18.0
28S	3,637	4,119	4.2	17.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
Modified: 11/28/2017 4:50:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 10LL

RNA Area:	46.7	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	78 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.90

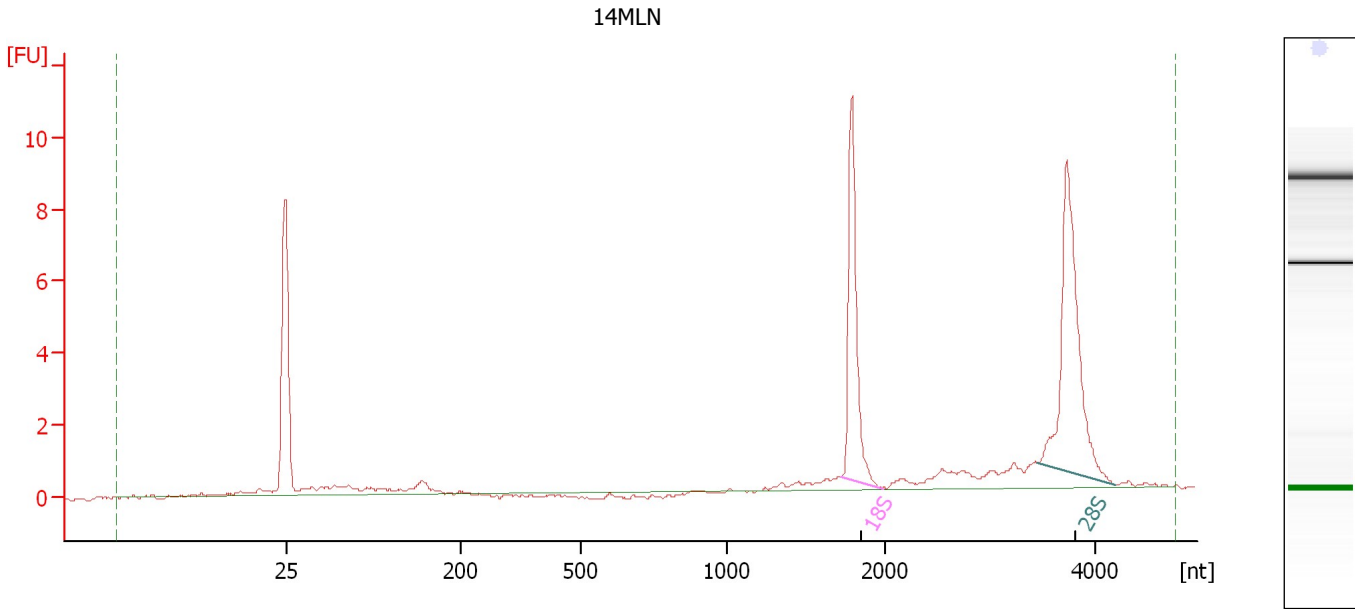
Fragment table for sample 4 : 10LL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,688	1,988	9.2	19.7
28S	3,511	4,276	11.6	24.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
Modified: 11/28/2017 4:50:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 14MLN

RNA Area: 33.1 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 55 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:10

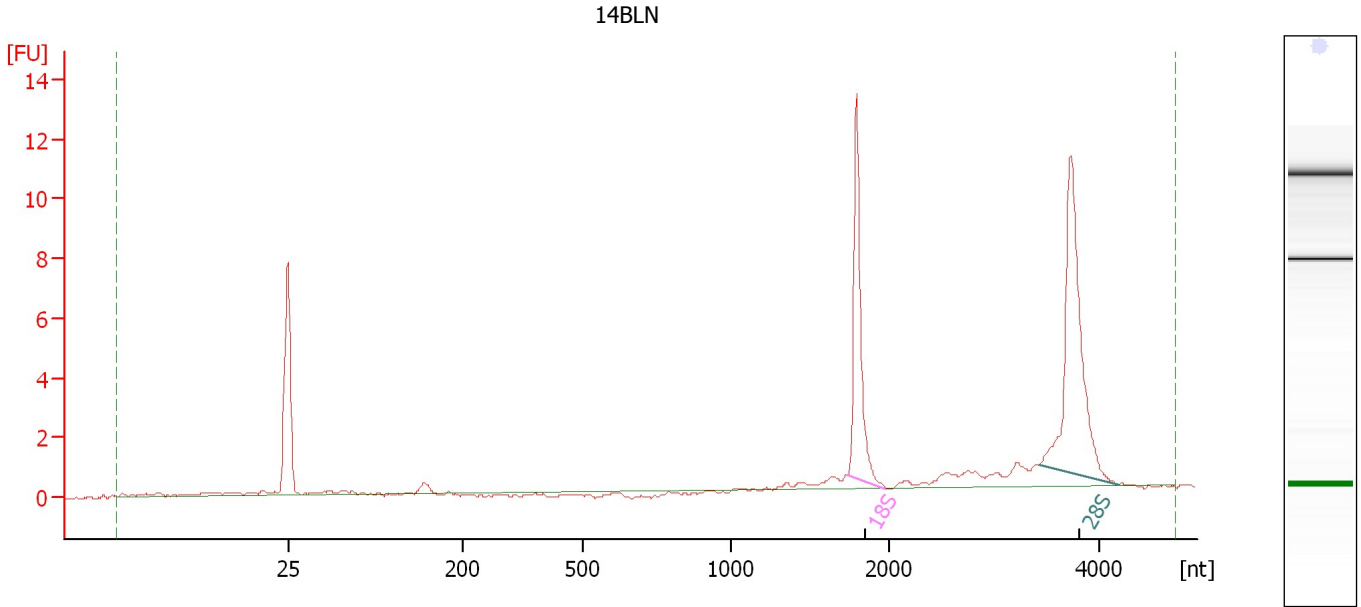
Fragment table for sample 5 : 14MLN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,717	1,981	8.0	24.1
28S	3,463	4,198	11.9	36.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 6 : 14BLN

RNA Area: 34.8 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 58 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:10

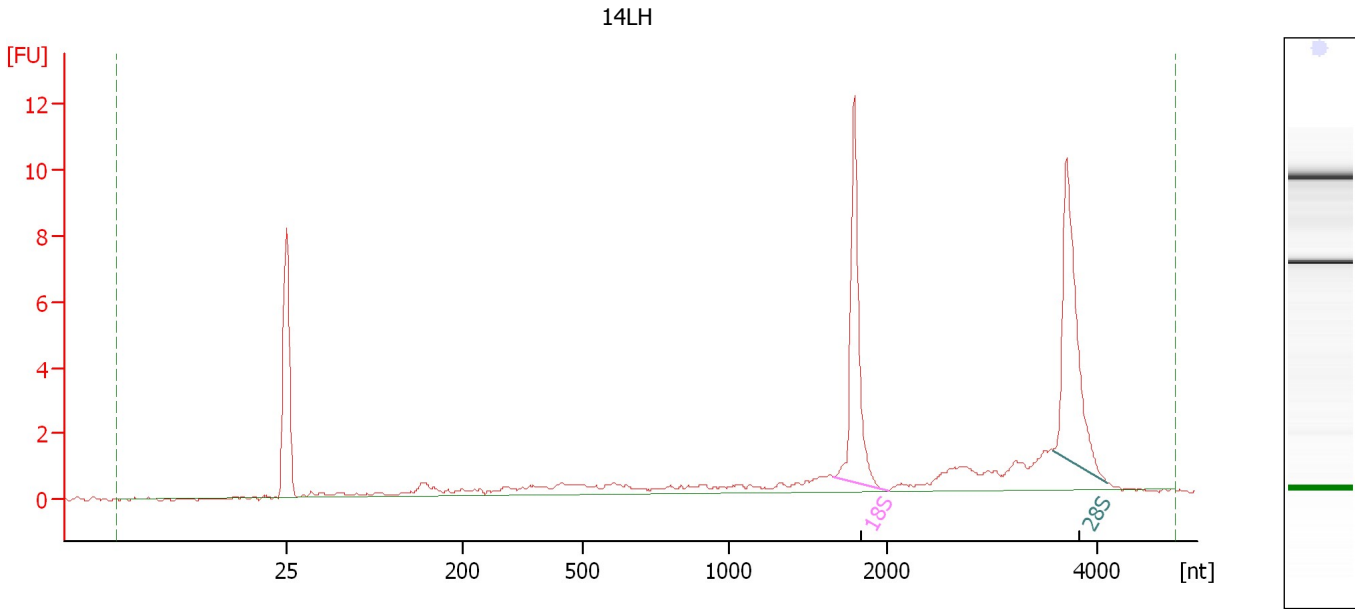
Fragment table for sample 6 : 14BLN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,738	1,974	8.9	25.6
28S	3,426	4,179	13.7	39.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : 14LH

RNA Area: 42.5 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 71 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.50

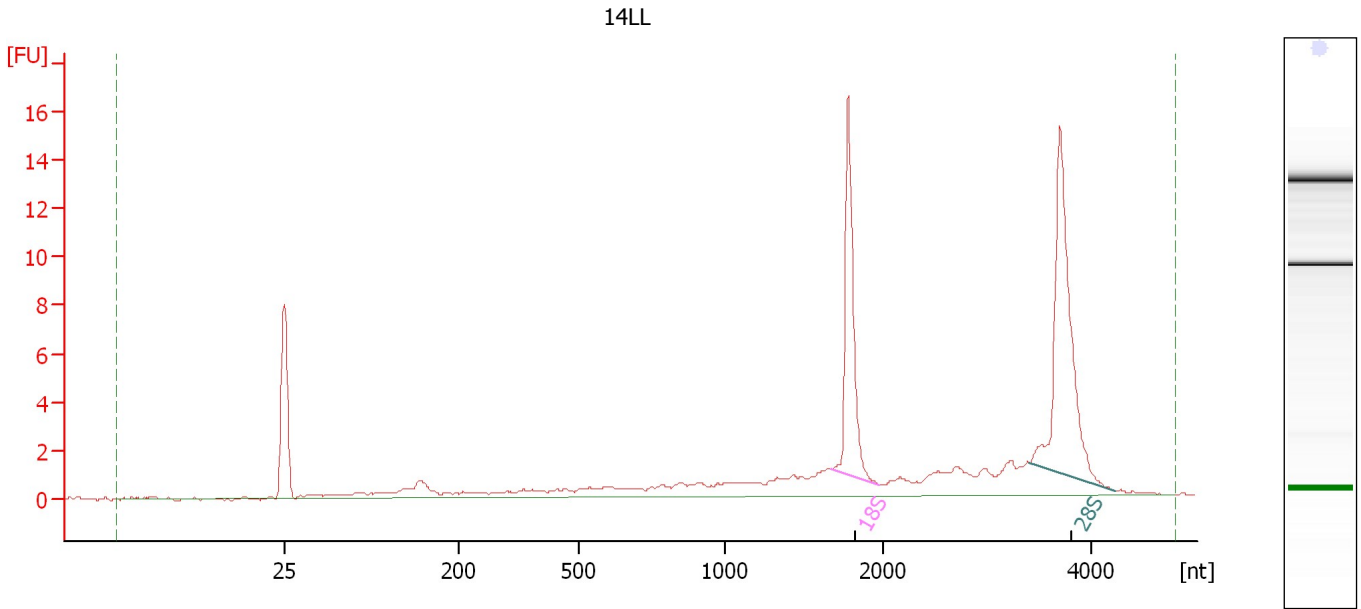
Fragment table for sample 7 : 14LH

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	2,012	9.2	21.7
28S	3,582	4,092	10.5	24.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : 14LL

RNA Area:	71.6	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	120 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.20

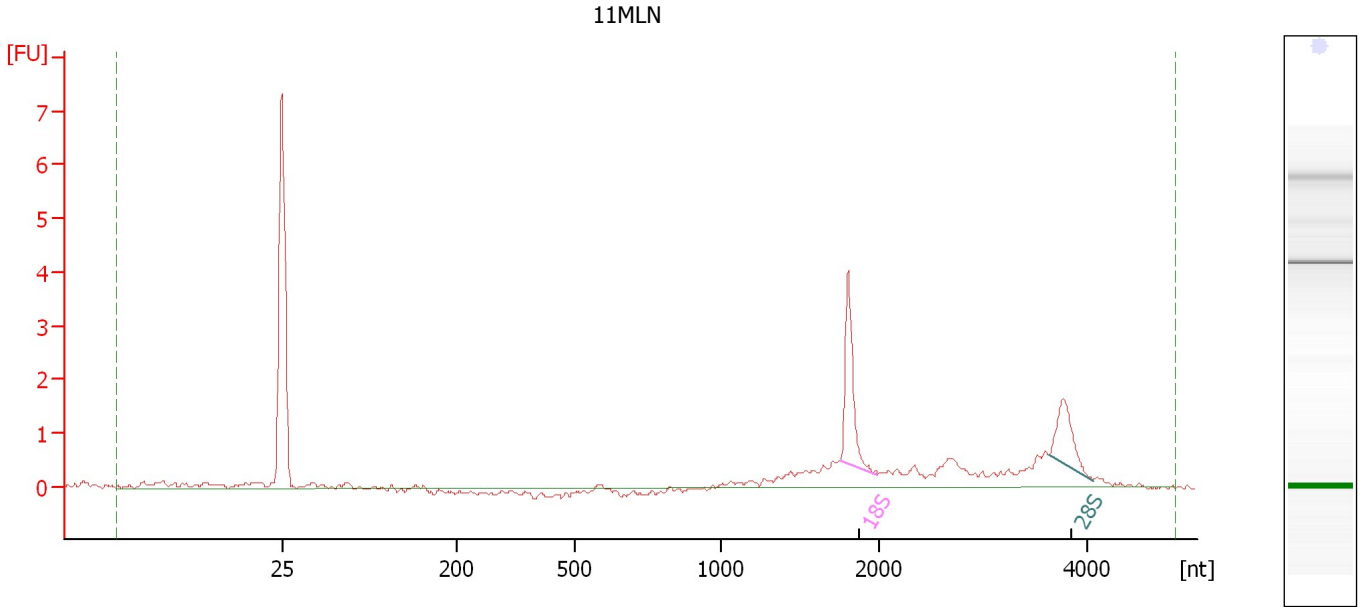
Fragment table for sample 8 : 14LL

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,676	1,974	12.1	16.9
28S	3,404	4,223	18.5	25.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
Modified: 11/28/2017 4:50:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 11MLN

RNA Area:	15.9	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	27 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.6	Result Flagging Label:	RIN: 8.30

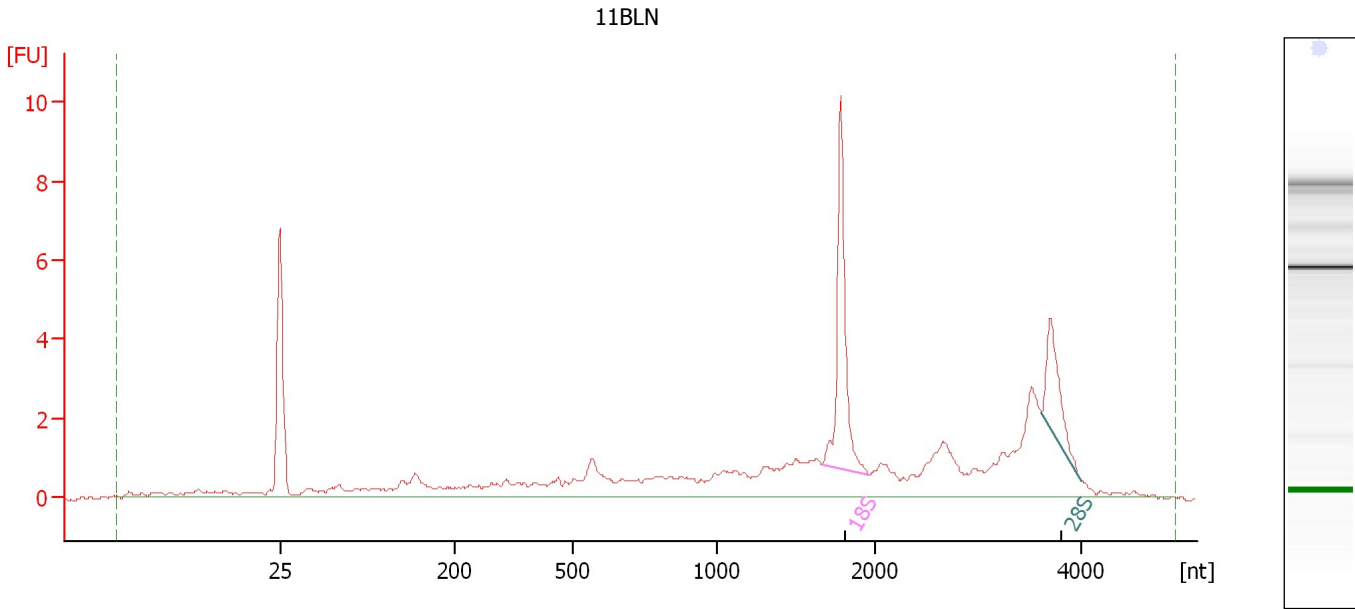
Fragment table for sample 9 : 11MLN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,757	1,995	2.6	16.6
28S	3,646	4,057	1.6	9.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : 11BLN

RNA Area:	57.0	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	95 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 6.60

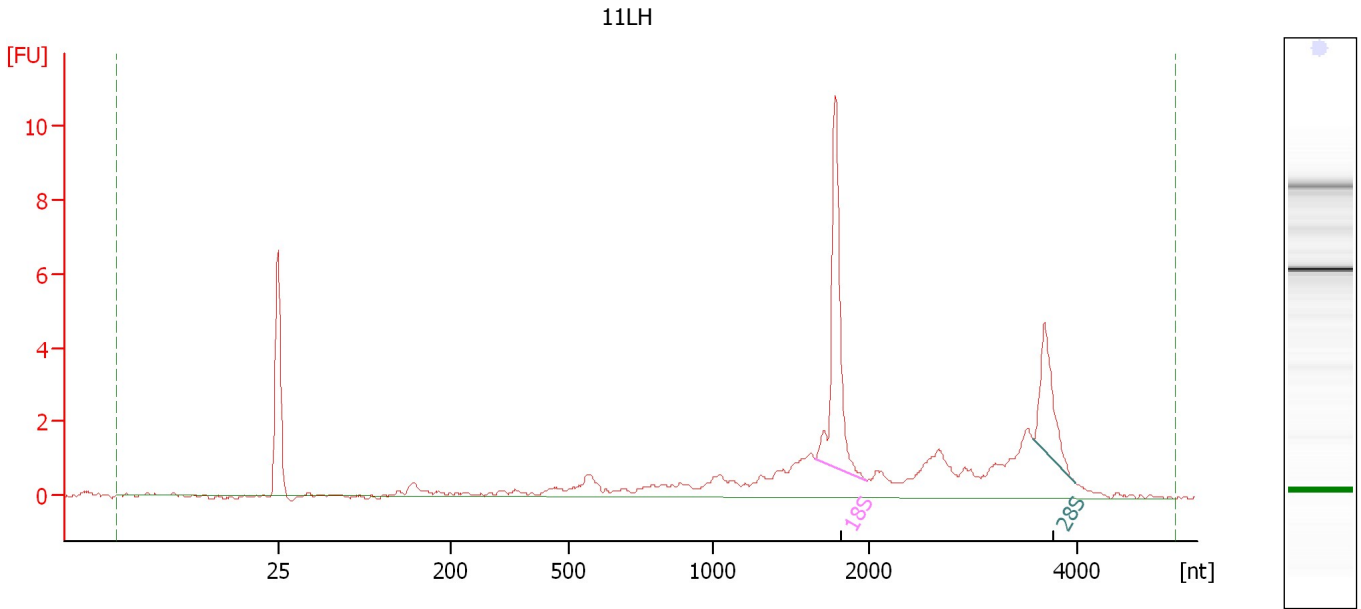
Fragment table for sample 10 : 11BLN

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	1,968	7.7	13.4
28S	3,611	3,993	3.1	5.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
Modified: 11/28/2017 4:50:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 11LH

RNA Area:	44.3	RNA Integrity Number (RIN):	7.3 (B.02.08)
RNA Concentration:	74 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN: 7.30

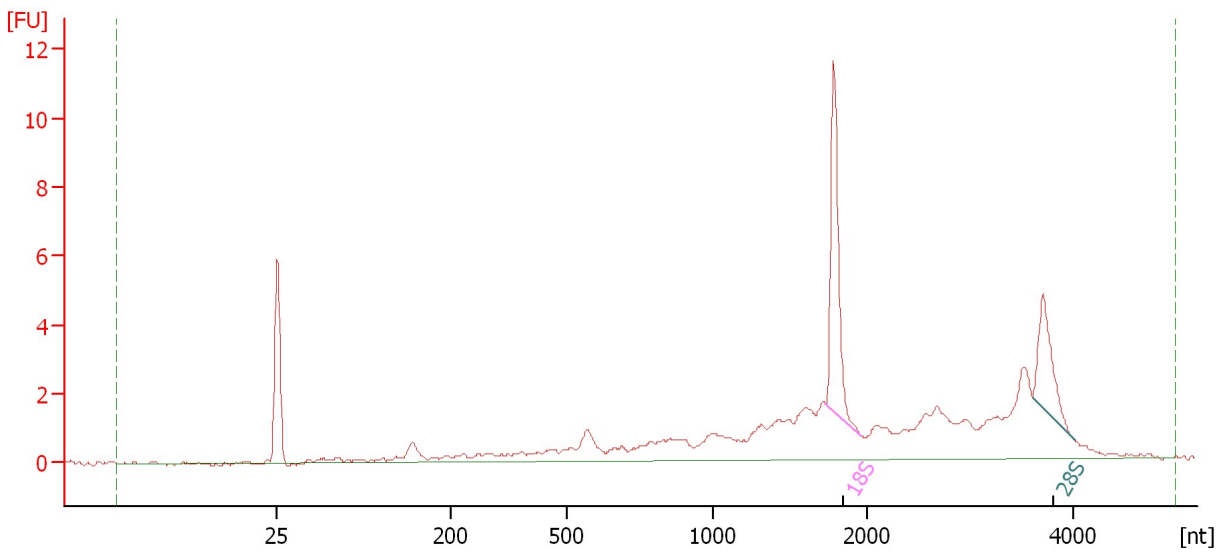
Fragment table for sample 11 : 11LH

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	1,975	8.4	18.9
28S	3,587	3,990	3.8	8.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
Modified: 11/28/2017 4:50:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 :

RNA Area: 57.1 RNA Integrity Number (RIN): 6.4 (B.02.08)
RNA Concentration: 95 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.5 Result Flagging Label: RIN: 6.40

Fragment table for sample 12 :

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	1,961	7.4	12.9
28S	3,600	4,005	3.7	6.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-28\2017-11-28_001.xad

Created: 11/28/2017 4:26:26 PM
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