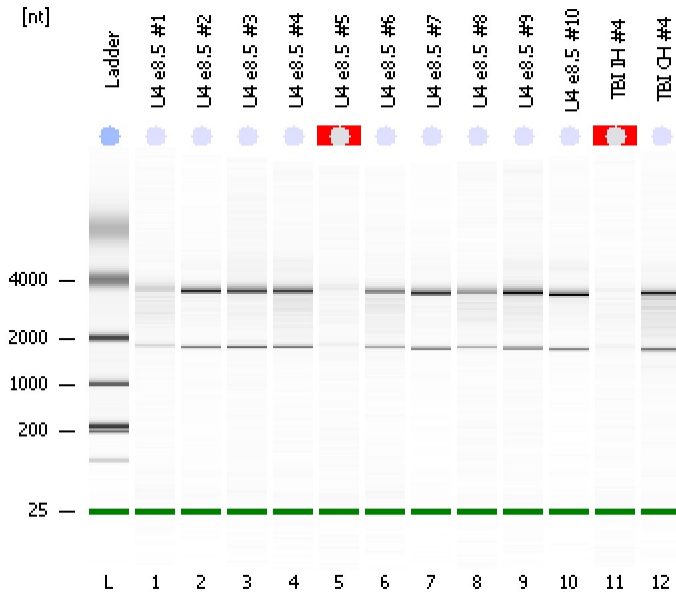


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electrophoresis File Run Summary



Instrument Information:

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

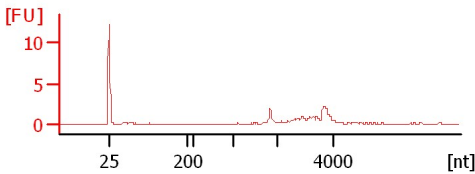
Assay Information:

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.

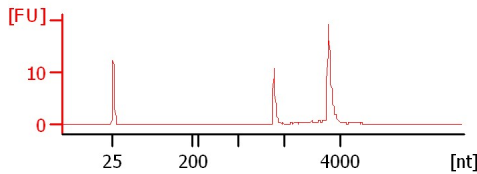
Chip Information:

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

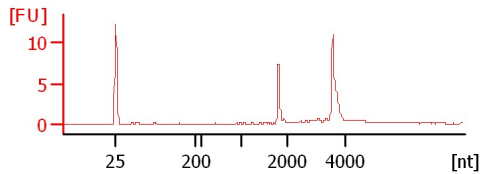
U4 e8.5 #1
RIN: 8.40



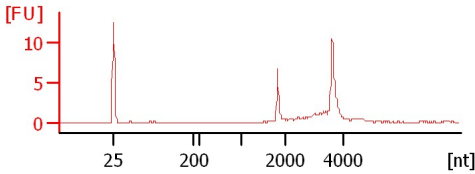
U4 e8.5 #2
RIN: 9.80



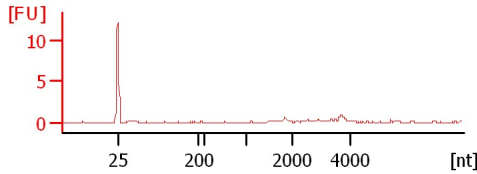
U4 e8.5 #3
RIN: 9.70



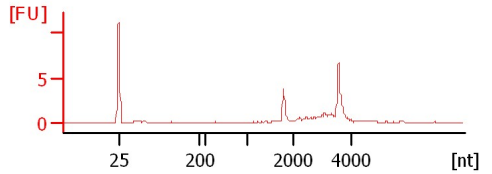
U4 e8.5 #4
RIN: 9.50



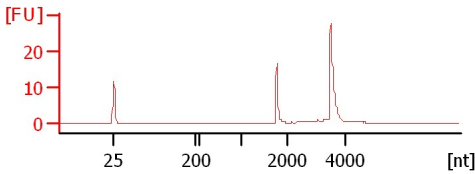
U4 e8.5 #5
RIN N/A



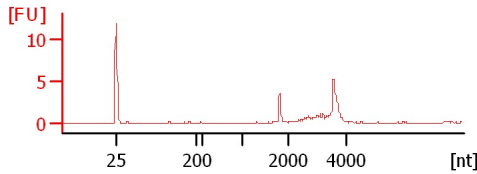
U4 e8.5 #6
RIN: 8.90



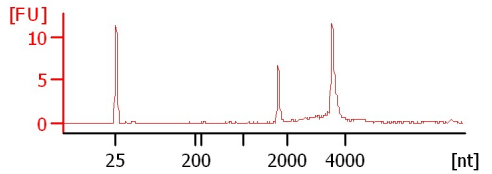
U4 e8.5 #7
RIN: 10



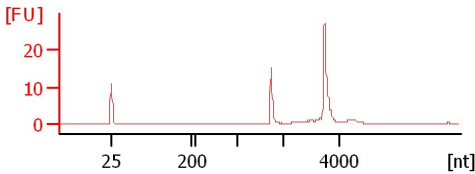
U4 e8.5 #8
RIN: 8.70



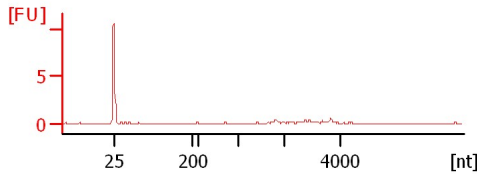
U4 e8.5 #9
RIN: 9.70



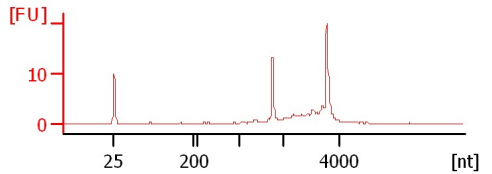
U4 e8.5 #10
RIN: 10



TBI IH #4
RIN N/A



TBI CH #4
RIN: 8.70



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
U4 e8.5 #1		✓	RIN: 8.40	
U4 e8.5 #2		✓	RIN: 9.80	
U4 e8.5 #3		✓	RIN: 9.70	
U4 e8.5 #4		✓	RIN: 9.50	
U4 e8.5 #5		✓	RIN N/A	
U4 e8.5 #6		✓	RIN: 8.90	
U4 e8.5 #7		✓	RIN:10	
U4 e8.5 #8		✓	RIN: 8.70	
U4 e8.5 #9		✓	RIN: 9.70	
U4 e8.5 #10		✓	RIN:10	
TBI IH #4		✓	RIN N/A	
TBI CH #4		✓	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\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 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

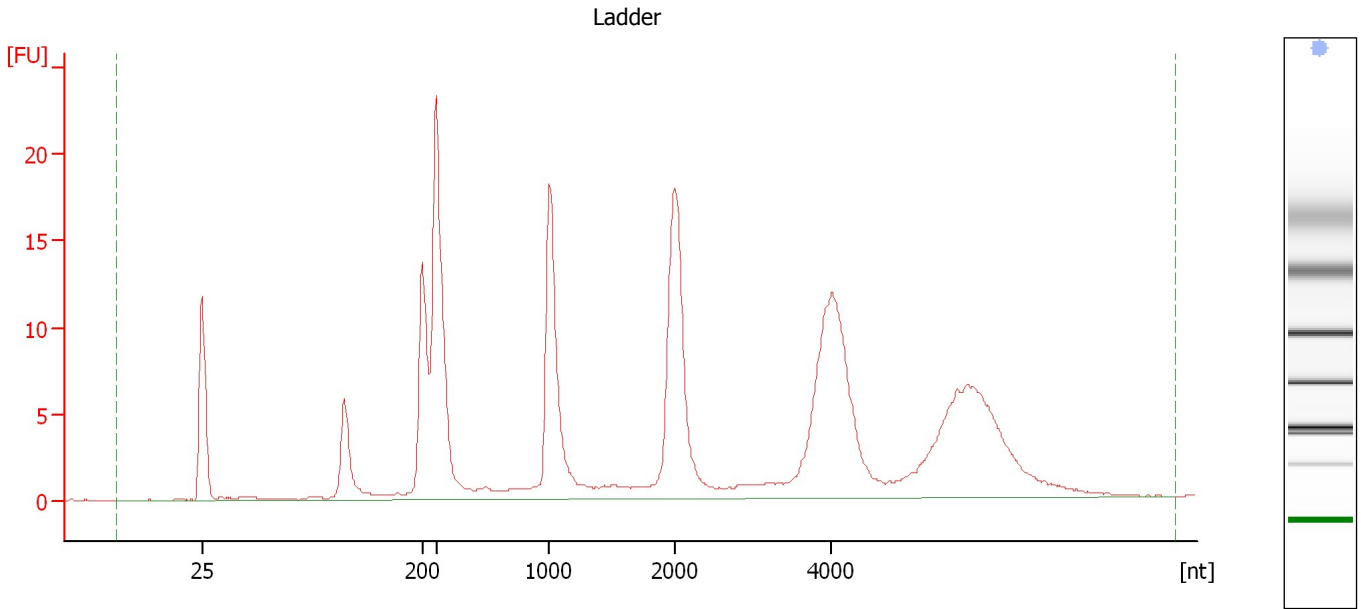
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary



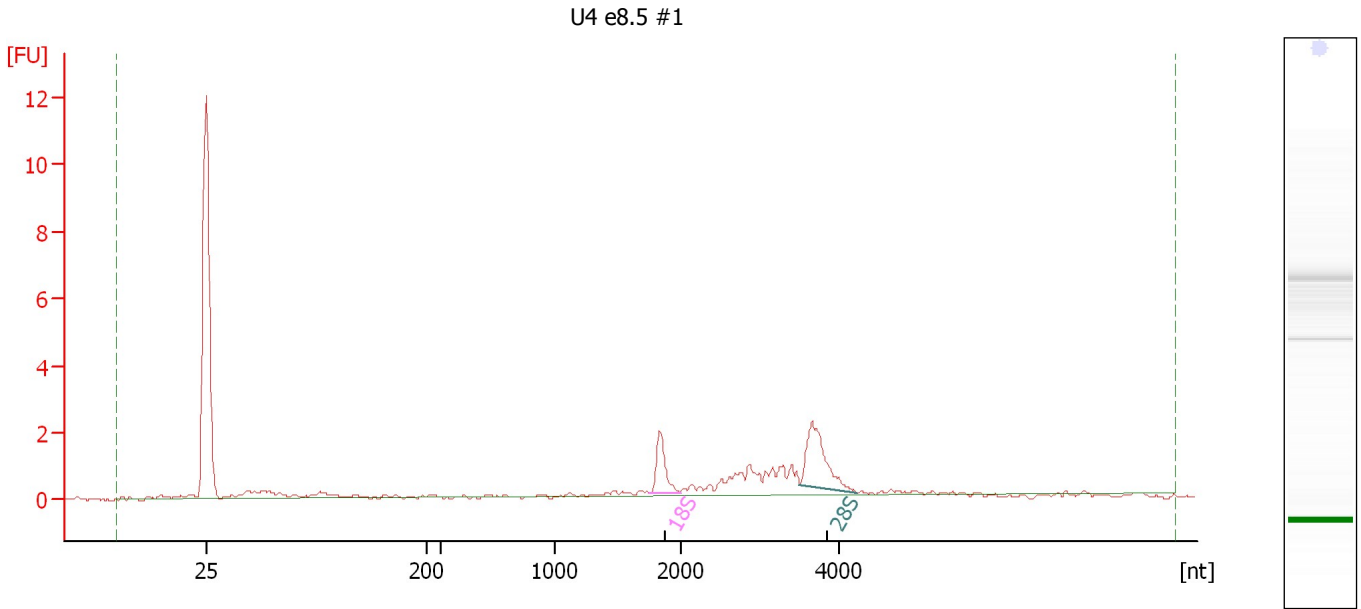
Overall Results for Ladder

RNA Area:	230.2	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : U4 e8.5 #1

RNA Area:	19.2	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.40

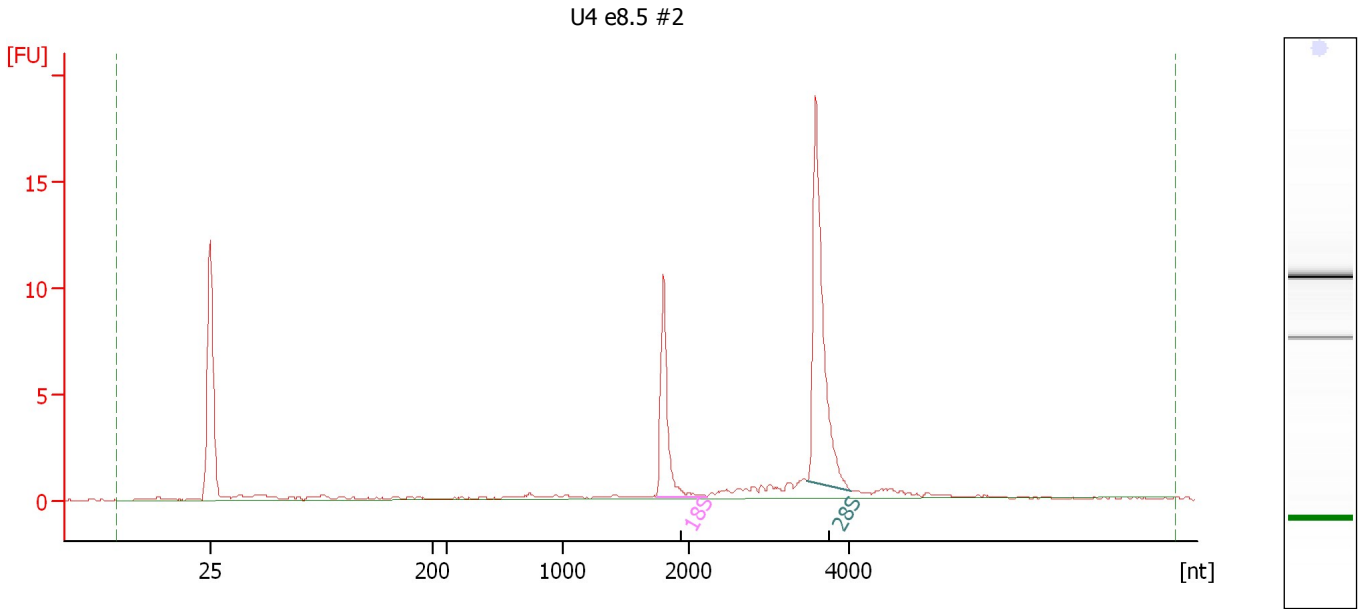
Fragment table for sample 1 : U4 e8.5 #1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,746	1,993	1.9	9.7
28S	3,503	4,233	3.7	19.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : U4 e8.5 #2

RNA Area: 42.1 RNA Integrity Number (RIN): 9.8 (B.02.08)
RNA Concentration: 27 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 9.80

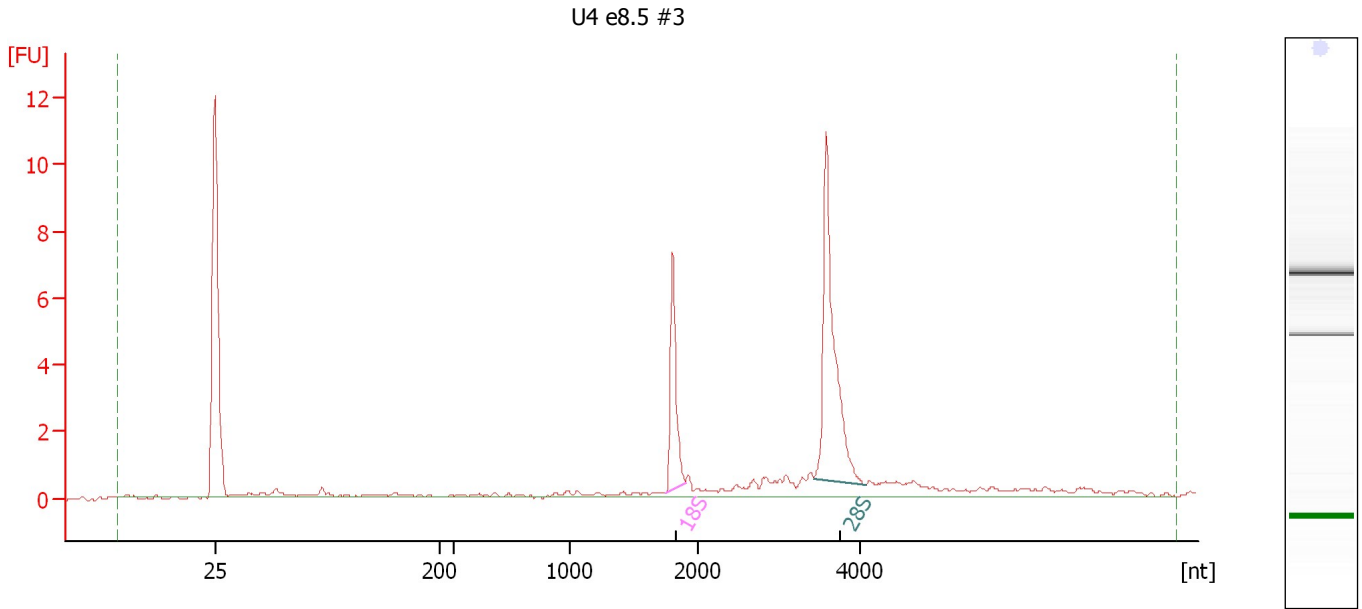
Fragment table for sample 2 : U4 e8.5 #2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,742	2,233	8.1	19.3
28S	3,480	4,029	18.1	43.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : U4 e8.5 #3

RNA Area: 32.5 RNA Integrity Number (RIN): 9.7 (B.02.08)
RNA Concentration: 21 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.3 Result Flagging Label: RIN: 9.70

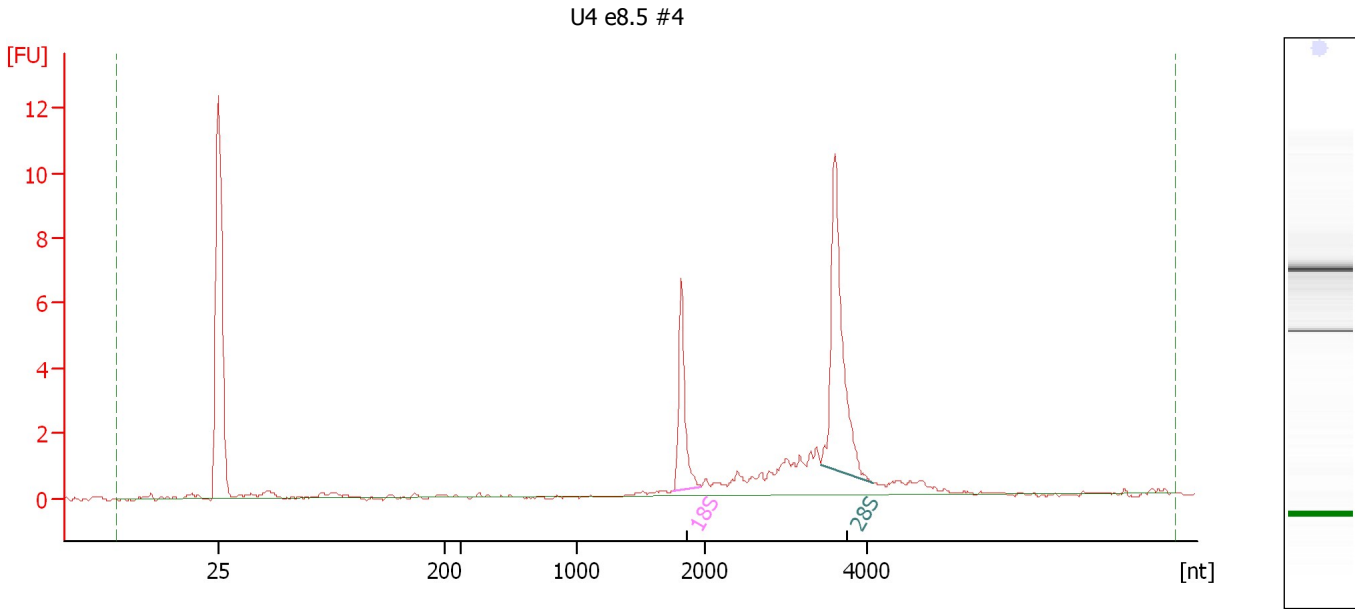
Fragment table for sample 3 : U4 e8.5 #3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,746	1,896	4.9	15.0
28S	3,431	4,082	11.4	35.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : U4 e8.5 #4

RNA Area:	32.5	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	21 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 9.50

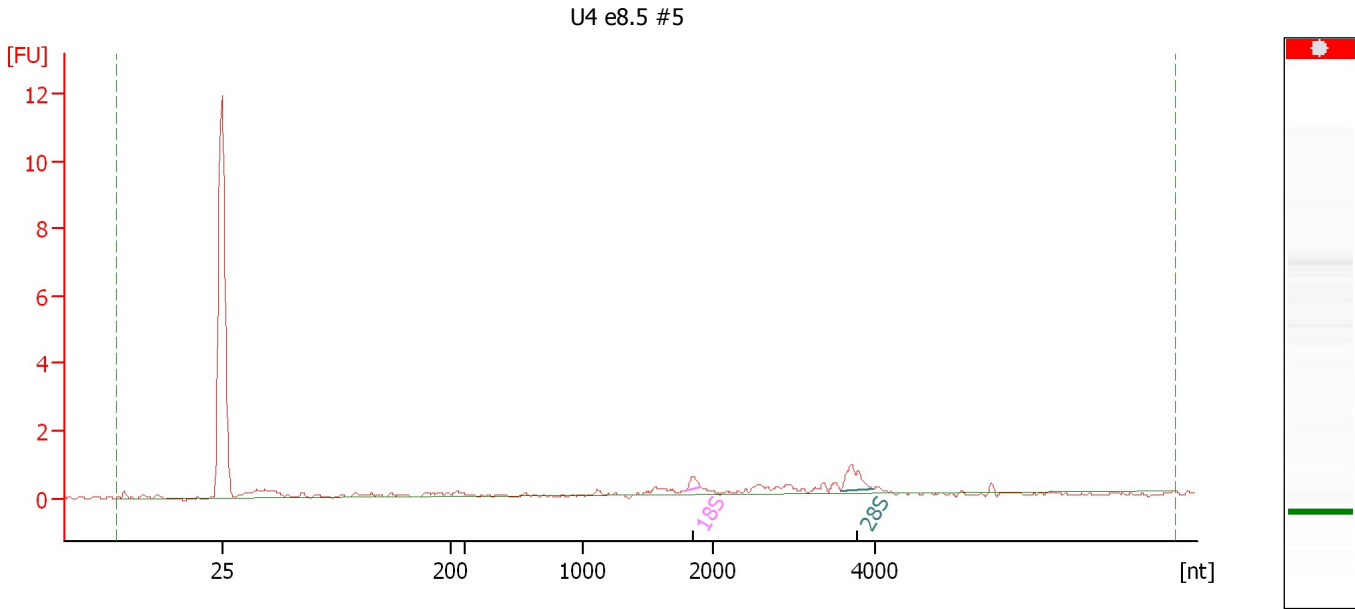
Fragment table for sample 4 : U4 e8.5 #4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,750	1,965	4.7	14.6
28S	3,409	4,055	10.8	33.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : U4 e8.5 #5

RNA Area:	7.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	5 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.2	Result Flagging Label:	RIN N/A

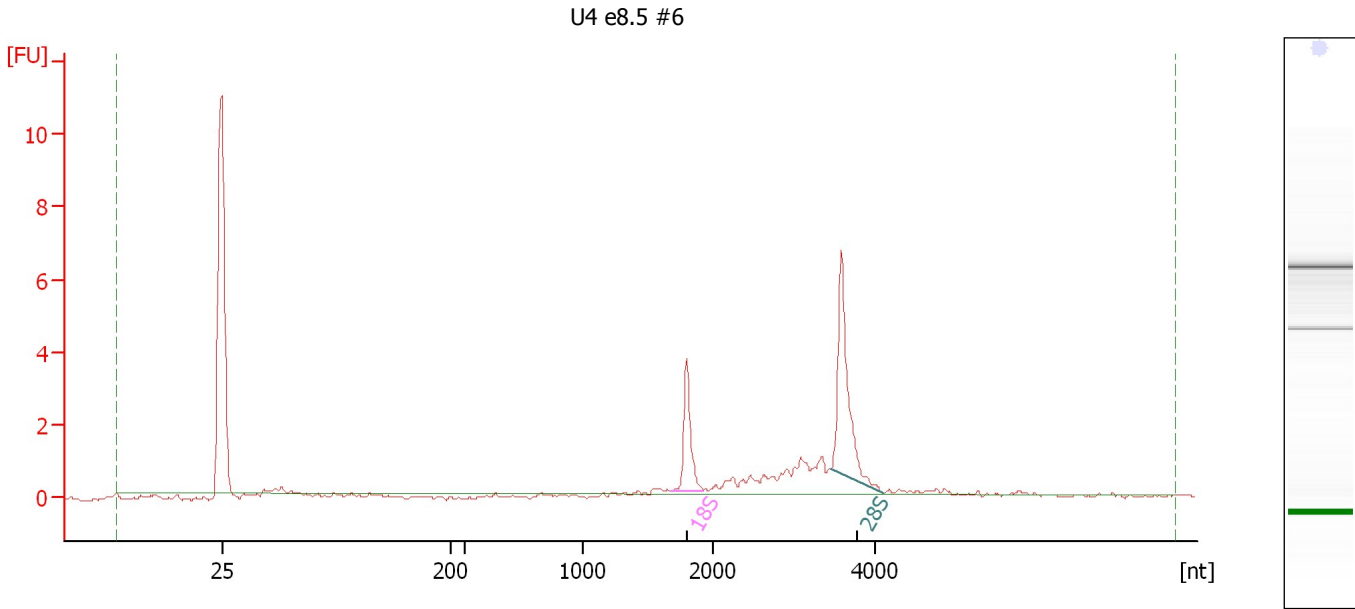
Fragment table for sample 5 : U4 e8.5 #5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,794	1,918	0.3	4.3
28S	3,573	3,979	1.0	13.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
 Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : U4 e8.5 #6

RNA Area:	18.8	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 8.90

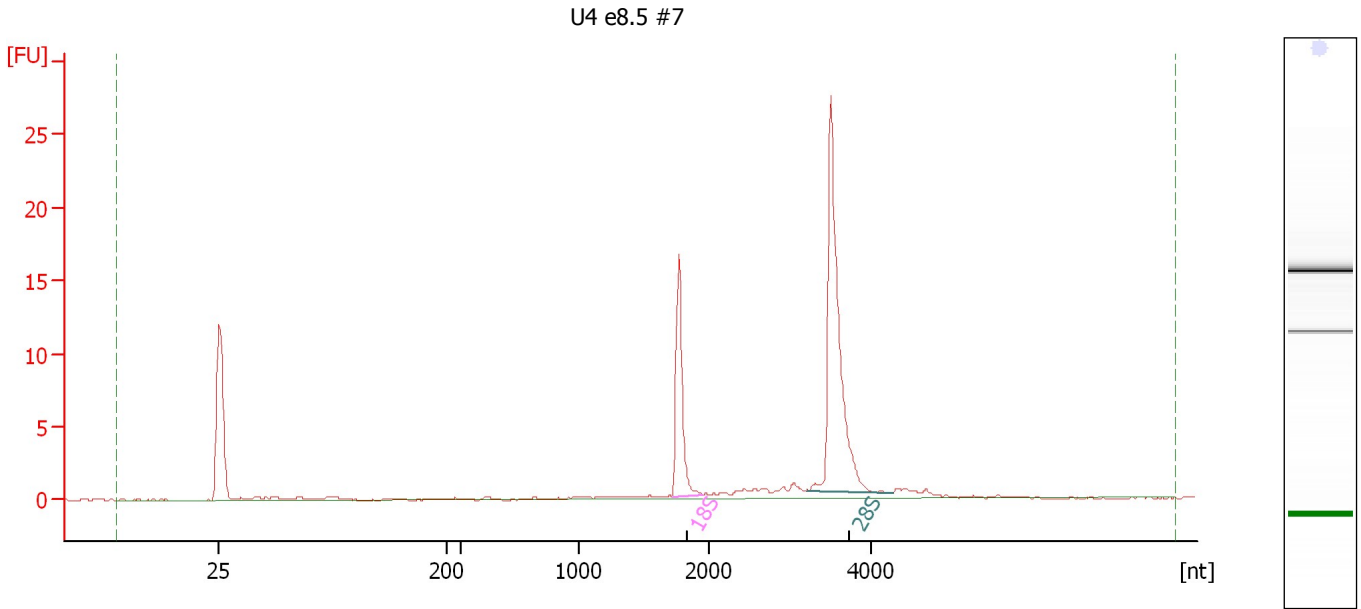
Fragment table for sample 6 : U4 e8.5 #6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,687	1,934	2.9	15.6
28S	3,455	4,097	6.2	32.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : U4 e8.5 #7

RNA Area: 58.3 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 38 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN:10

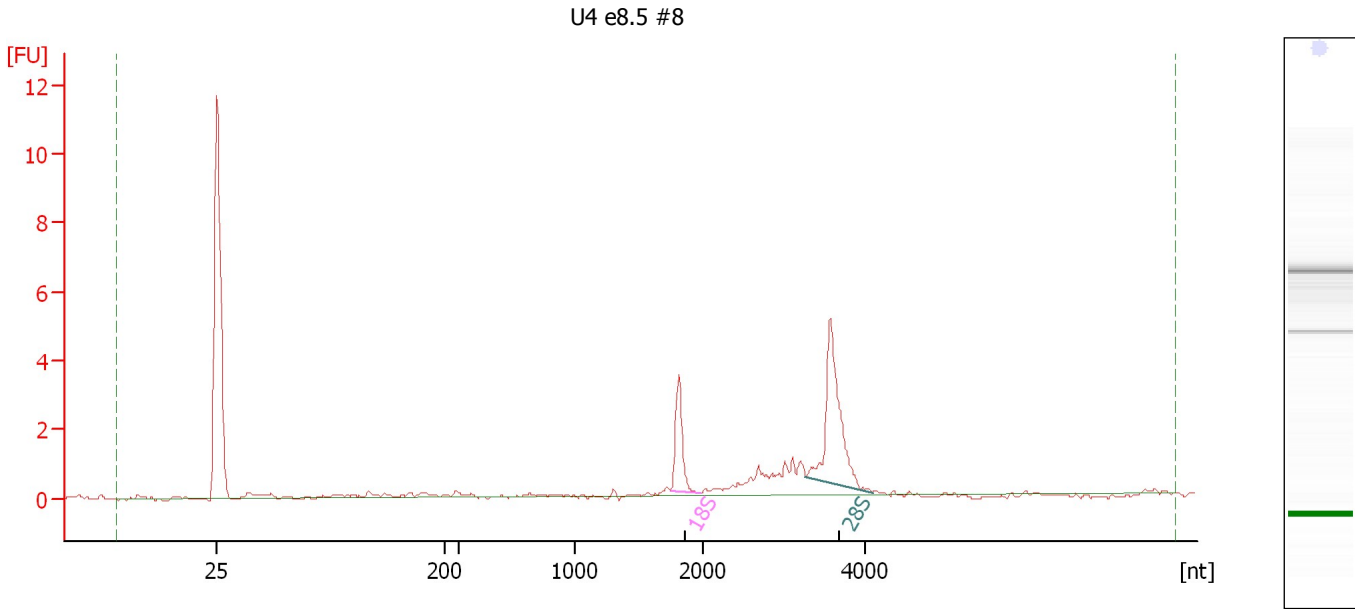
Fragment table for sample 7 : U4 e8.5 #7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,726	1,966	11.7	20.0
28S	3,209	4,275	29.0	49.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : U4 e8.5 #8

RNA Area:	21.0	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	14 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.7	Result Flagging Label:	RIN: 8.70

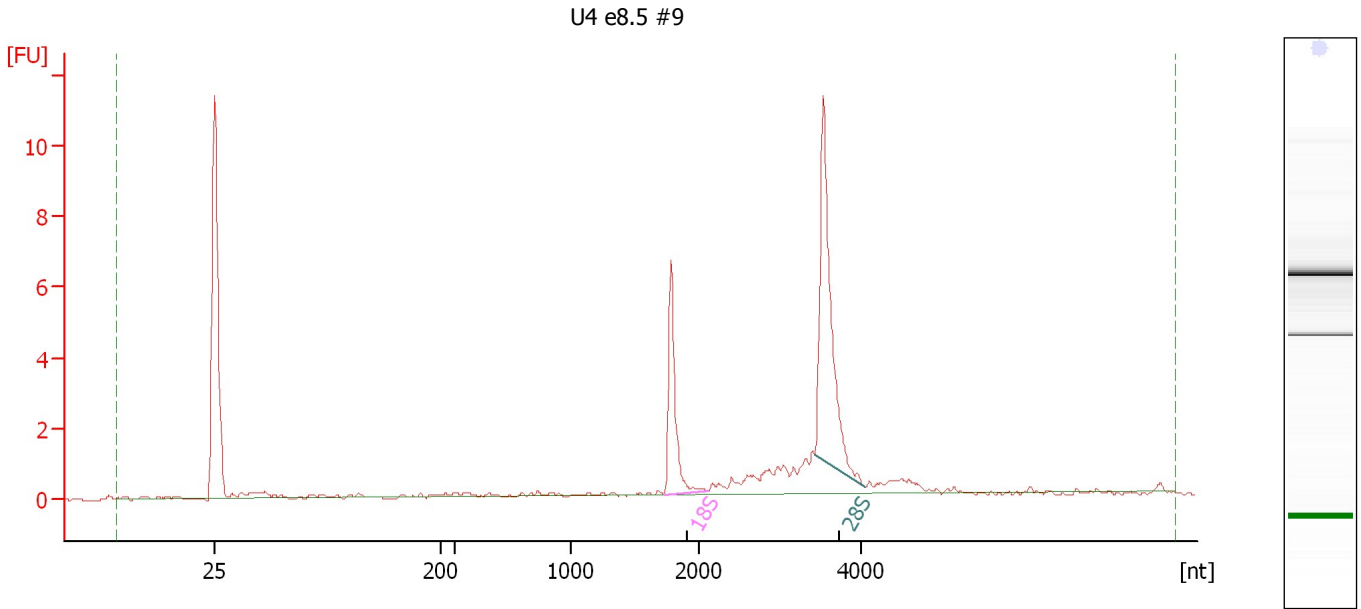
Fragment table for sample 8 : U4 e8.5 #8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,741	1,973	2.5	12.1
28S	3,252	4,085	6.7	32.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
 Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : U4 e8.5 #9

RNA Area:	29.7	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	19 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN: 9.70

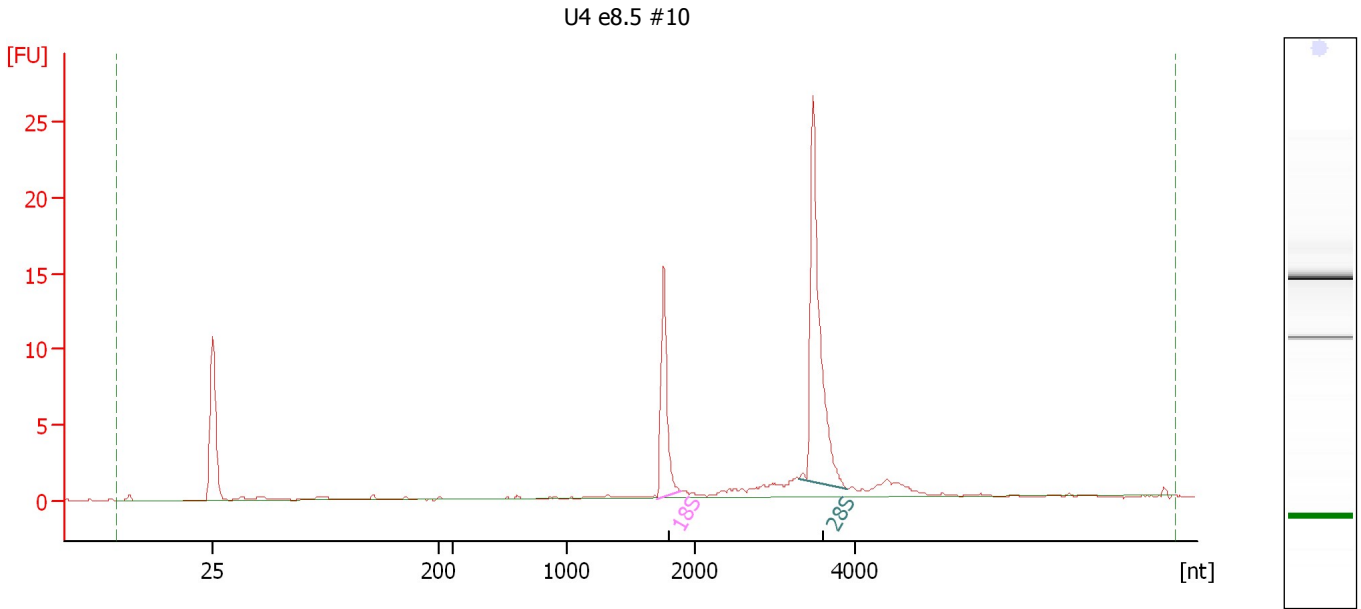
Fragment table for sample 9 : U4 e8.5 #9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,722	2,115	5.2	17.7
28S	3,429	4,052	11.3	38.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : U4 e8.5 #10

RNA Area: 55.0 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 36 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.3 Result Flagging Label: RIN:10

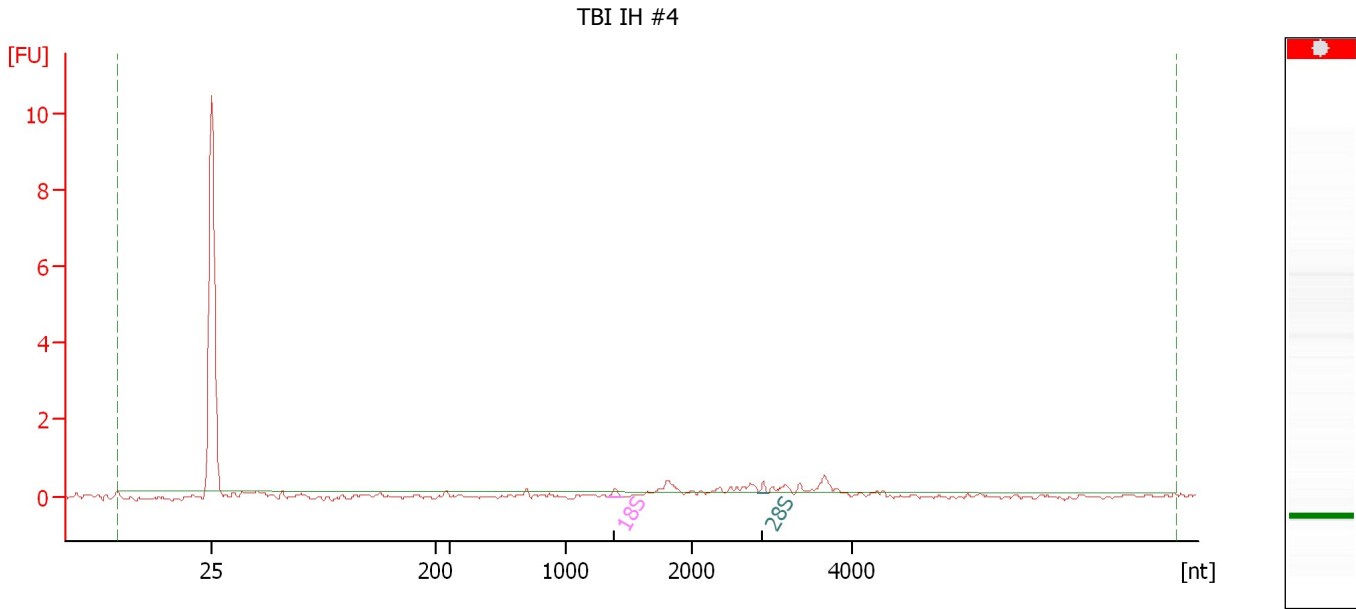
Fragment table for sample 10 : U4 e8.5 #10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,703	1,887	10.6	19.3
28S	3,286	3,899	24.8	45.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
 Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : TBI IH #4

RNA Area:	1.9	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN N/A

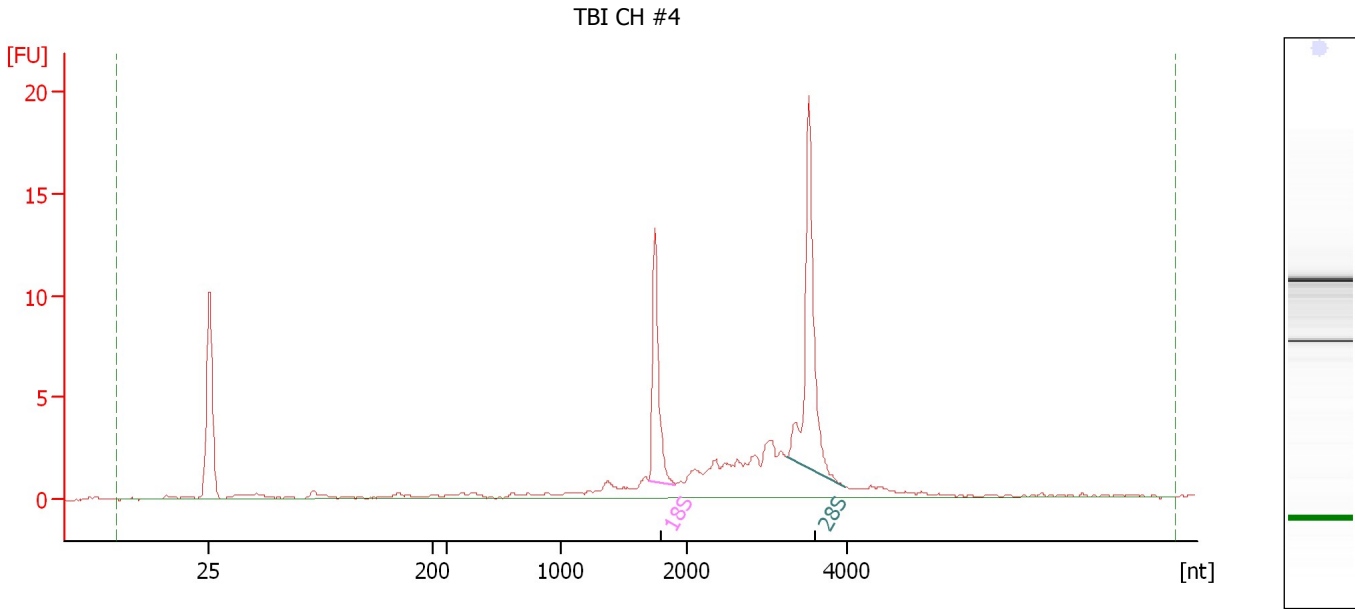
Fragment table for sample 11 : TBI IH #4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,340	1,440	0.2	7.8
28S	2,822	2,956	0.1	6.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : TBI CH #4

RNA Area: 70.3 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 46 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 8.70

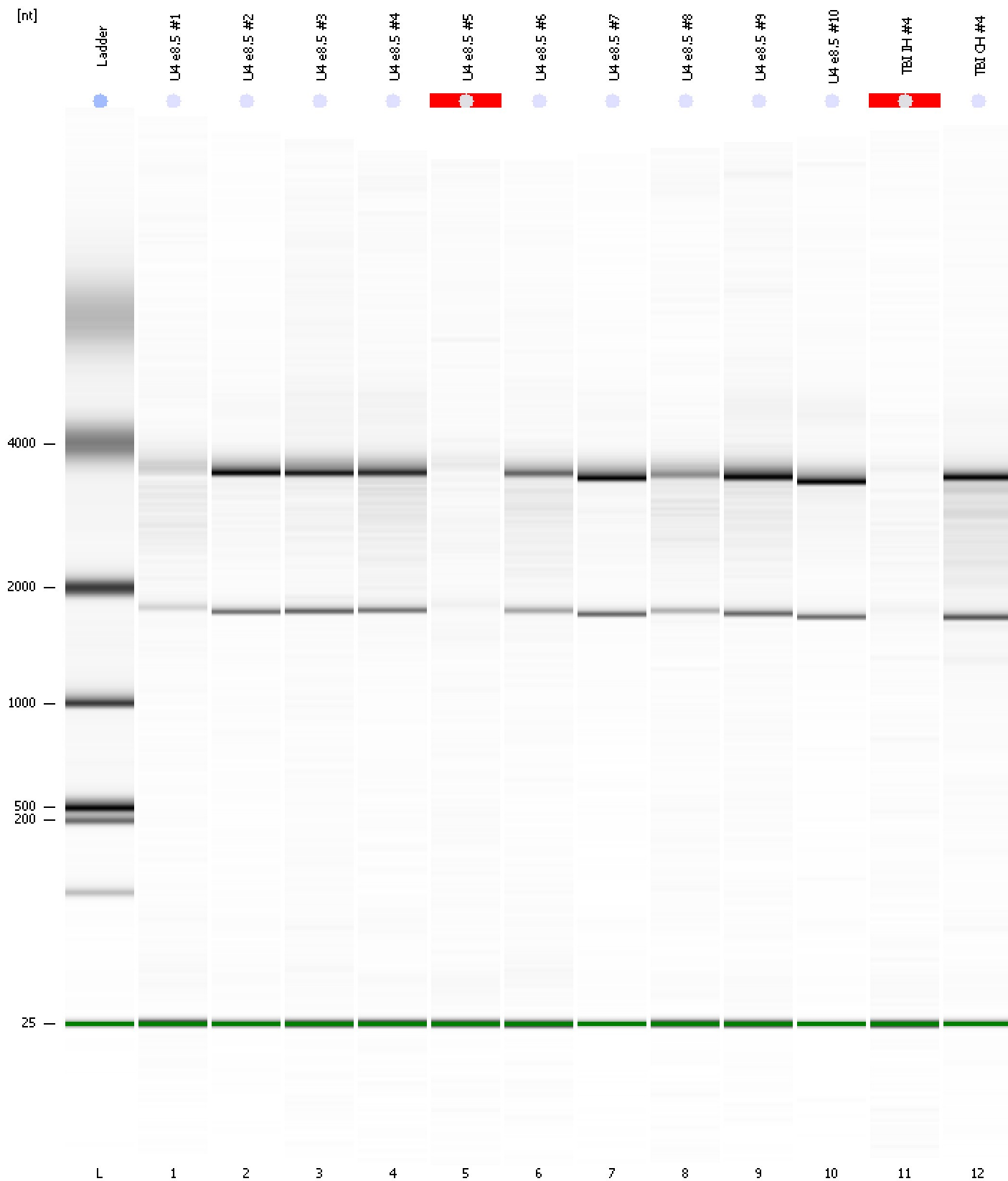
Fragment table for sample 12 : TBI CH #4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,699	1,910	9.3	13.3
28S	3,254	3,979	16.9	24.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-03\2015-06-03_001.xad

Created: 6/3/2015 12:27:22 PM
Modified: 6/3/2015 12:51:10 PM

Curves

Standard Curve

