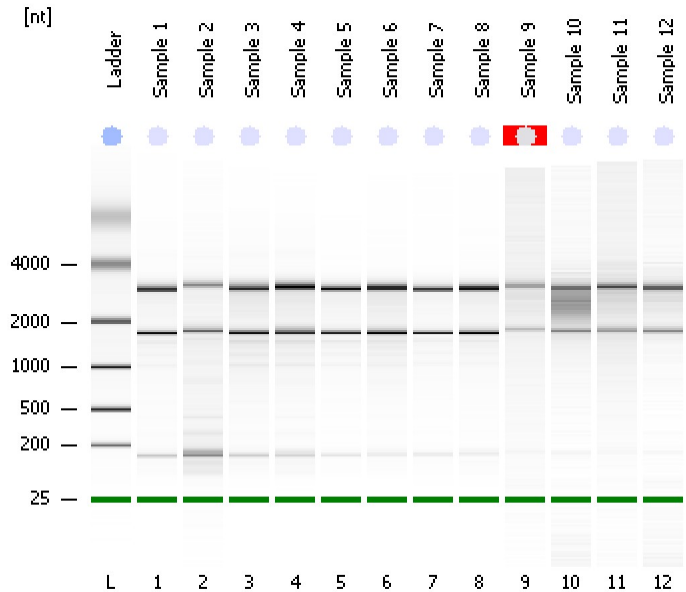


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electrophoresis File Run Summary



Instrument Information:

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

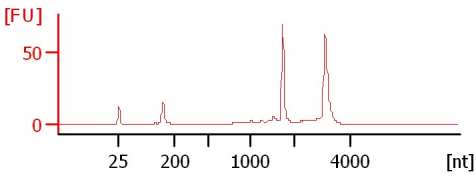
Assay Information:

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.

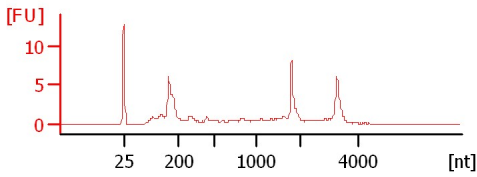
Chip Information:

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

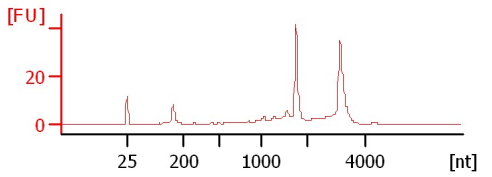
Sample 1
RIN: 8.60



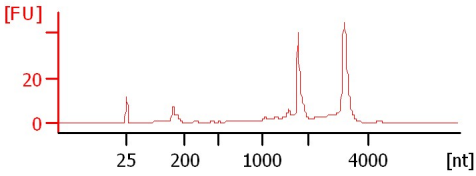
Sample 2
RIN: 7.40



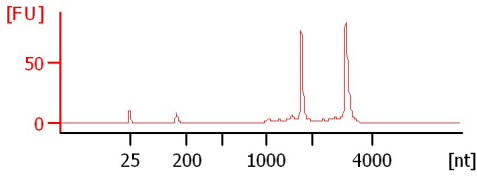
Sample 3
RIN: 7.90



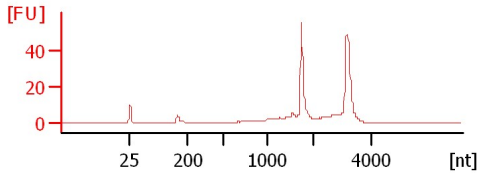
Sample 4
RIN: 8.20



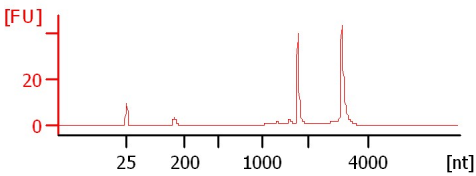
Sample 5
RIN: 8.70



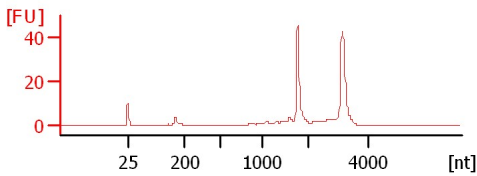
Sample 6
RIN: 8.30



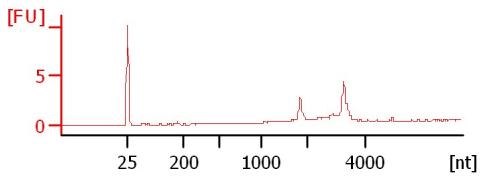
Sample 7
RIN: 8.80



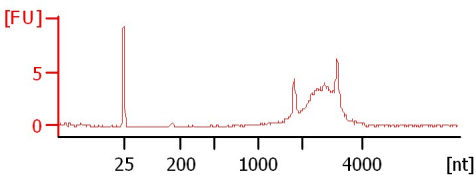
Sample 8
RIN: 9



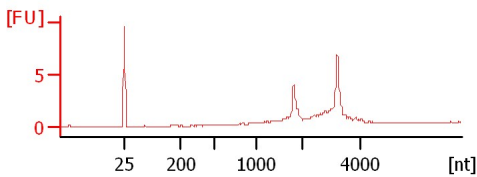
Sample 9
RIN N/A



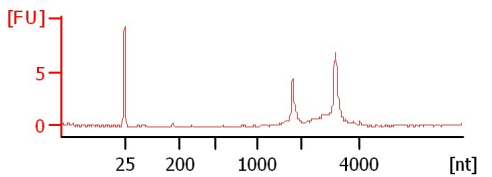
Sample 10
RIN: 5.10



Sample 11
RIN: 8.20



Sample 12
RIN: 9.60



Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.60	
Sample 2		✓	RIN: 7.40	
Sample 3		✓	RIN: 7.90	
Sample 4		✓	RIN: 8.20	
Sample 5		✓	RIN: 8.70	
Sample 6		✓	RIN: 8.30	
Sample 7		✓	RIN: 8.80	
Sample 8		✓	RIN:9	
Sample 9		✓	RIN N/A	
Sample 10		✓	RIN: 5.10	
Sample 11		✓	RIN: 8.20	
Sample 12		✓	RIN: 9.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

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] : 0.9
Area Threshold : 0.1
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

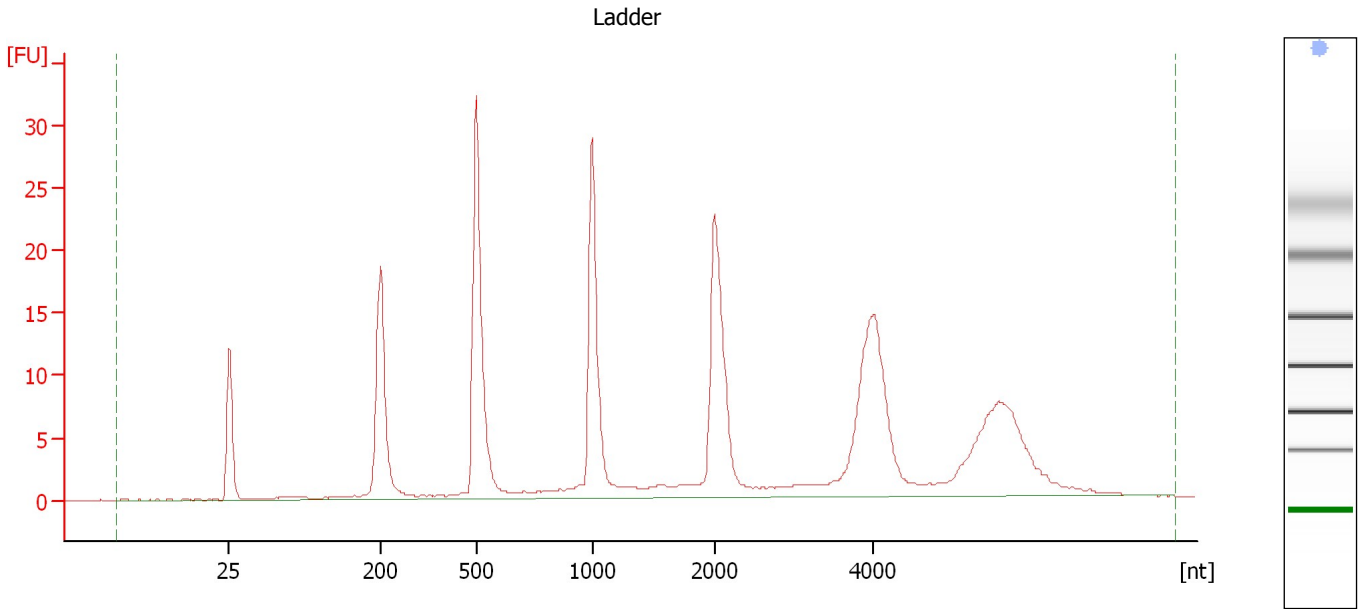
Ladder

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\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary



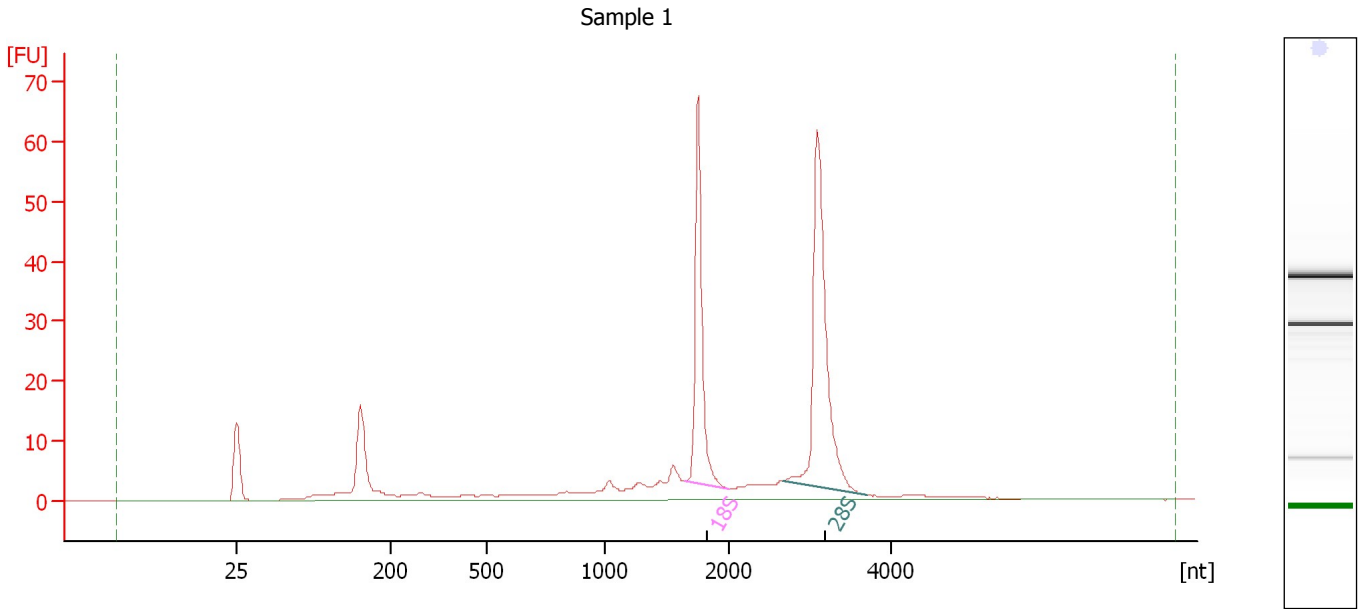
Overall Results for Ladder

RNA Area:	248.1	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\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
 Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	259.3	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	157 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.60

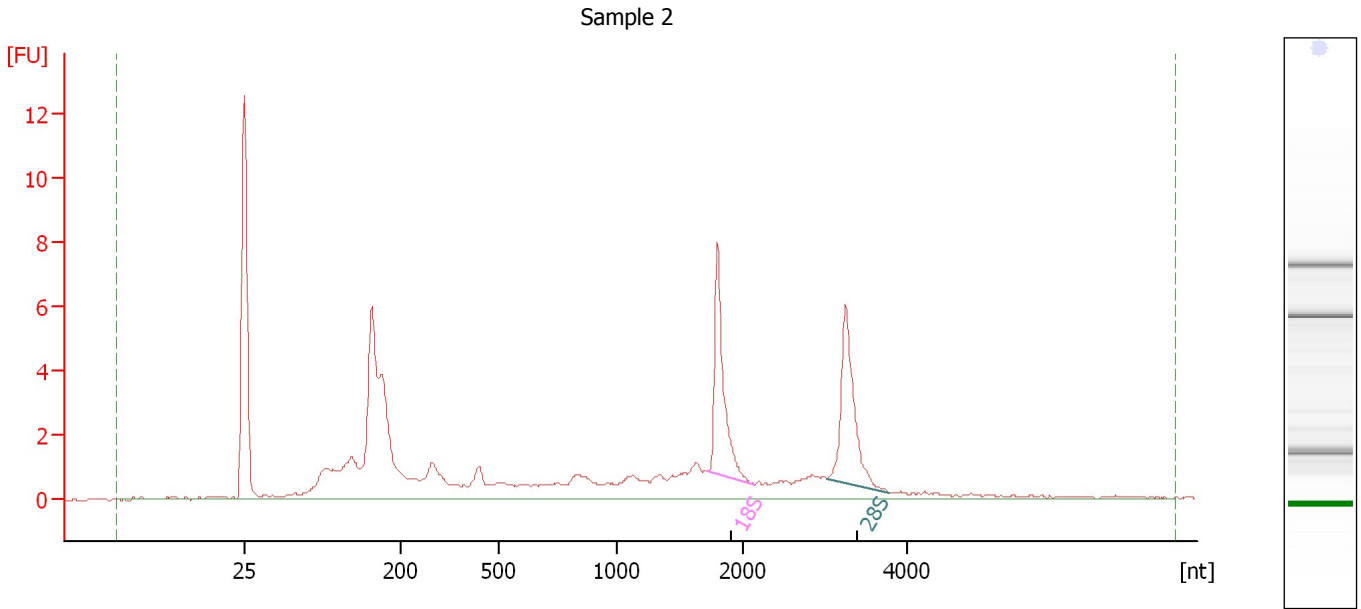
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	1,996	51.9	20.0
28S	2,669	3,701	76.2	29.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	70.6	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	43 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.40

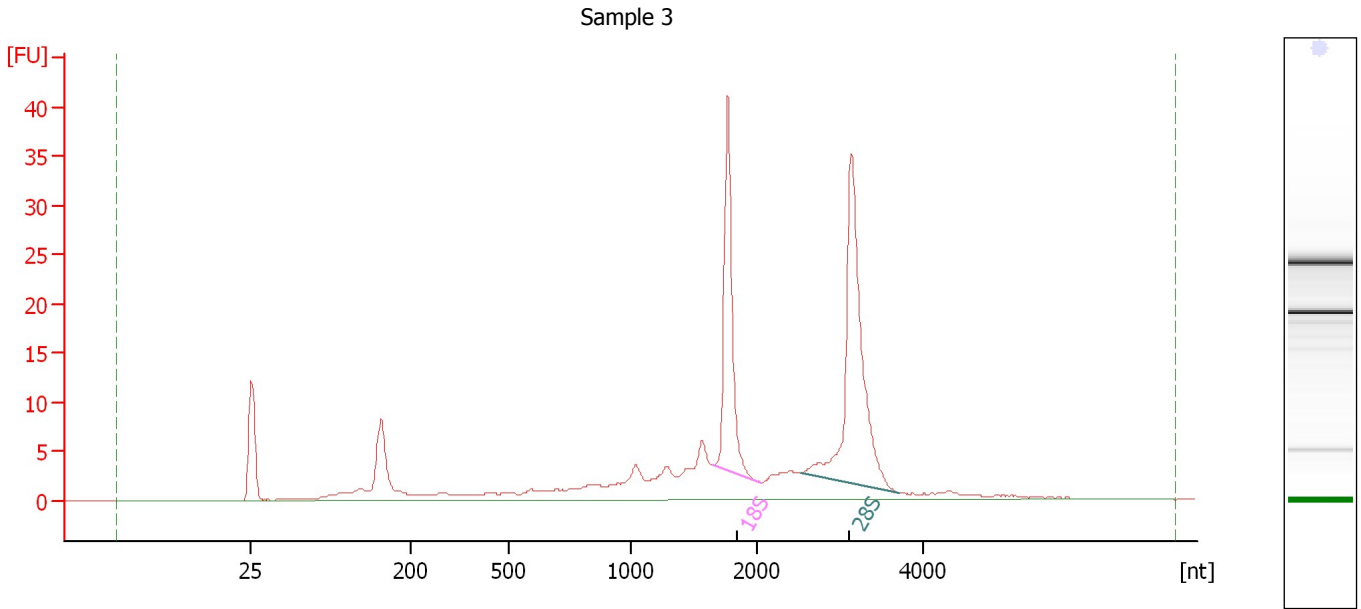
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,719	2,145	7.4	10.4
28S	3,020	3,777	7.2	10.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
 Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	204.0	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	123 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 7.90

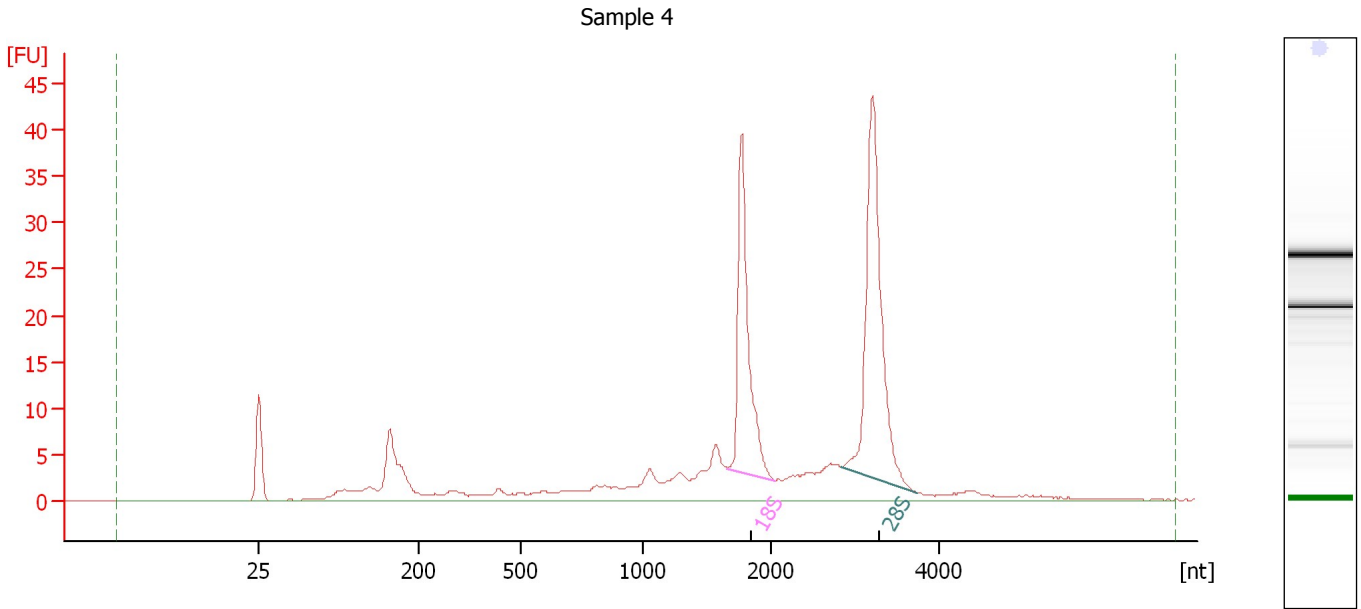
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,644	2,048	32.8	16.1
28S	2,524	3,696	51.5	25.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	231.8	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	140 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.20

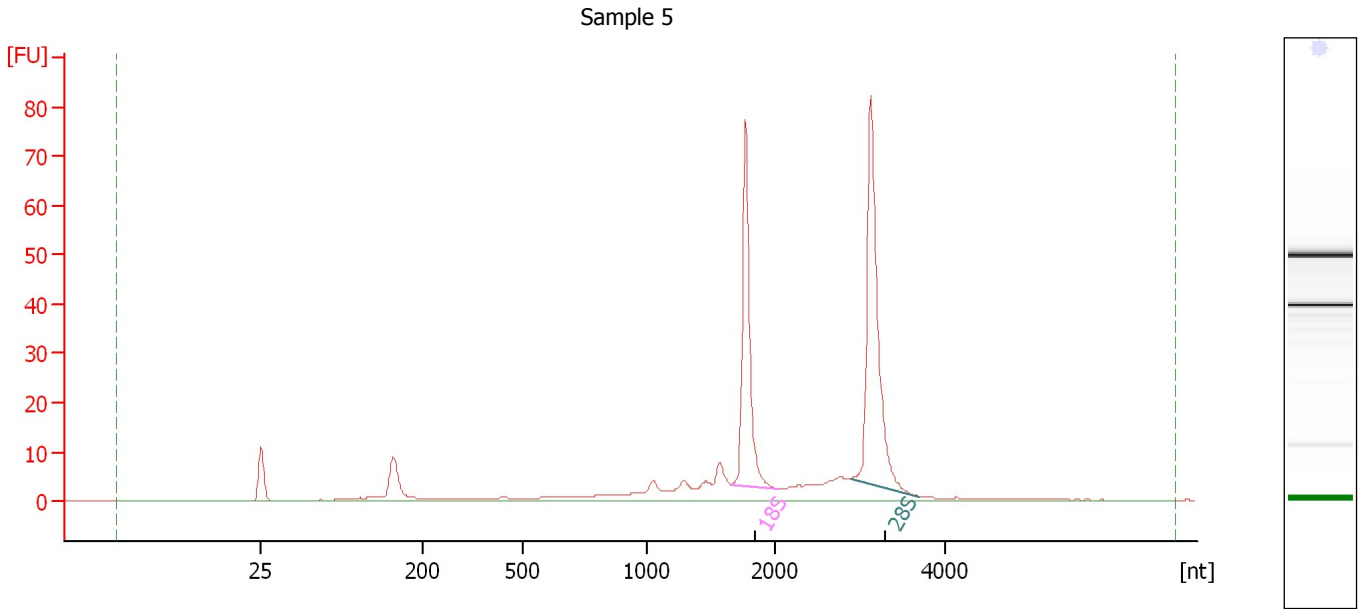
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,653	2,029	39.4	17.0
28S	2,829	3,719	60.8	26.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	268.0	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	162 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.70

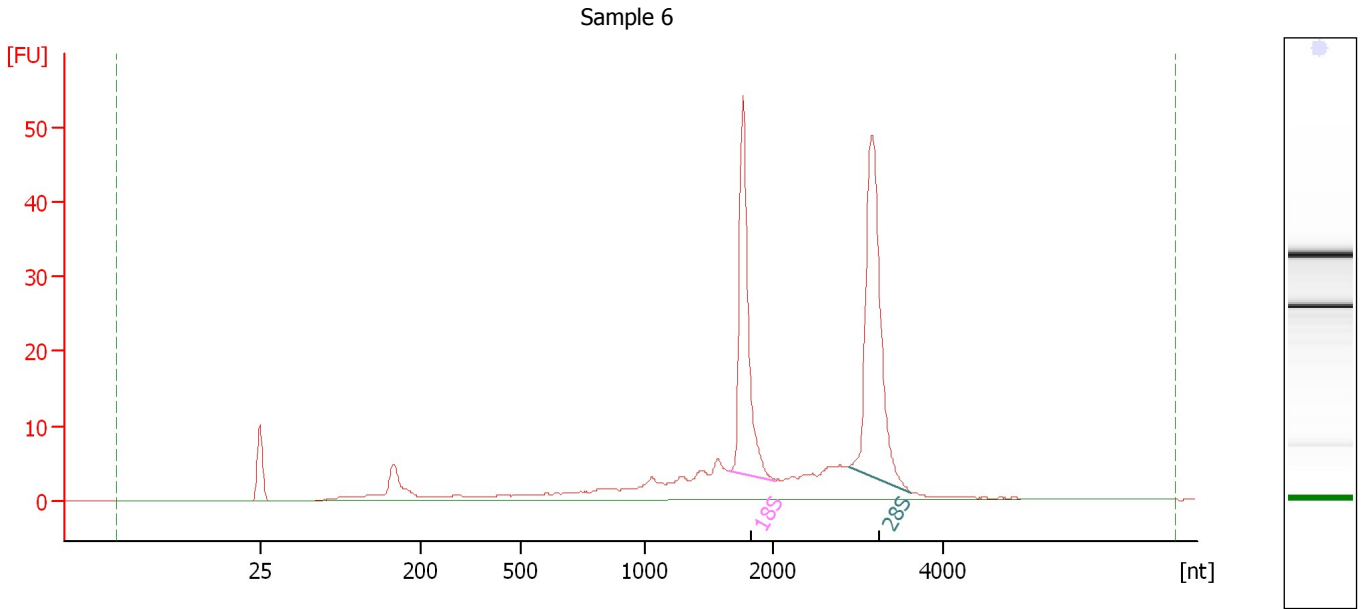
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,656	2,031	58.9	22.0
28S	2,892	3,689	82.4	30.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	237.1	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	143 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.30

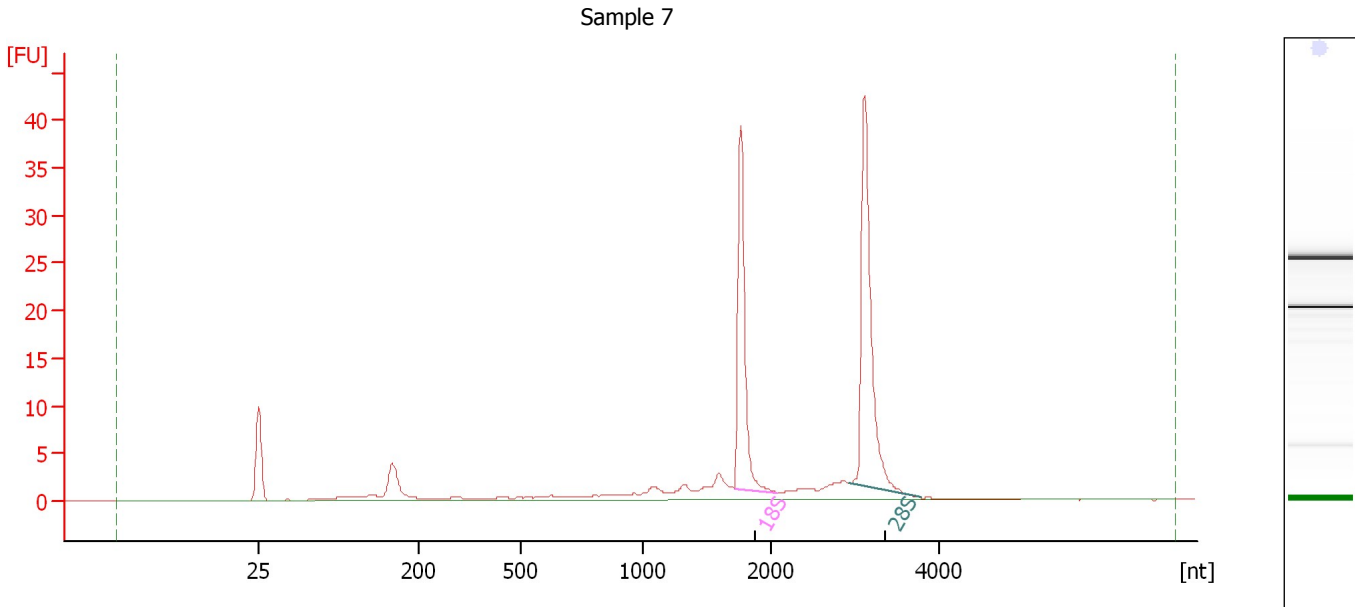
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	2,017	48.0	20.3
28S	2,892	3,640	66.3	28.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area: 115.5 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 70 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.80

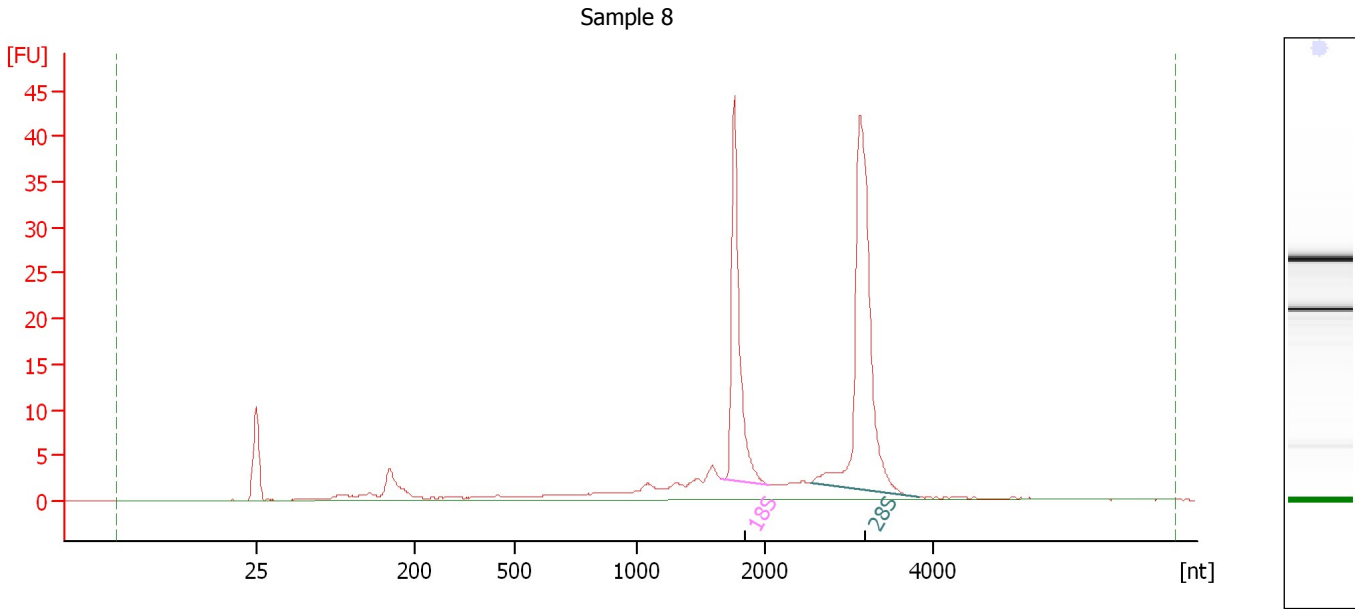
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,712	2,054	27.0	23.4
28S	2,931	3,769	37.4	32.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area: 172.2 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 104 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN:9

Fragment table for sample 8 : Sample 8

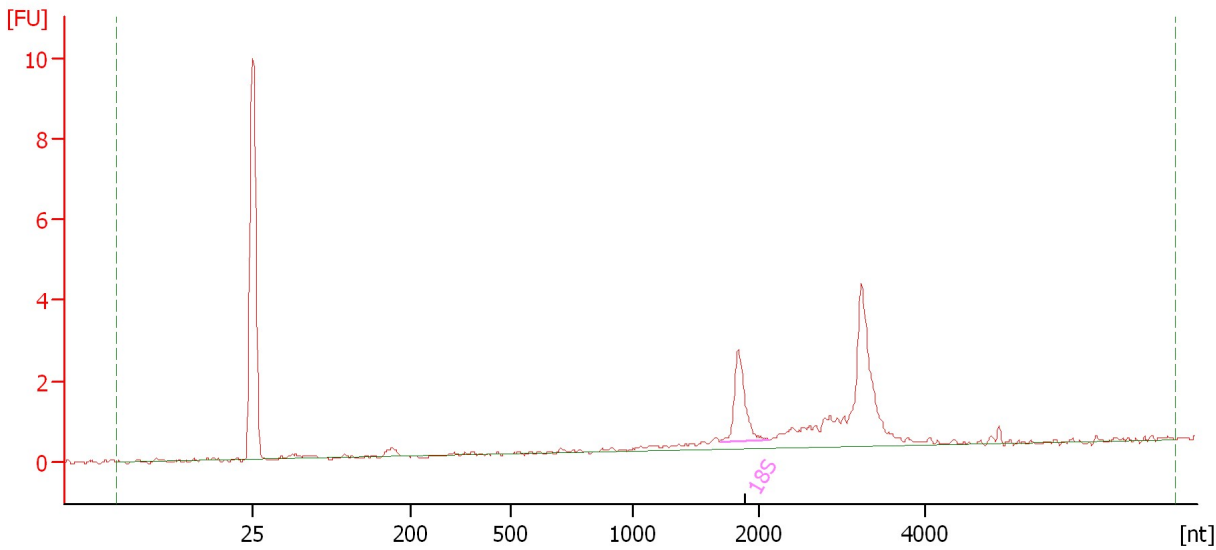
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,658	2,039	37.1	21.6
28S	2,550	3,828	61.1	35.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

RNA Area:	15.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

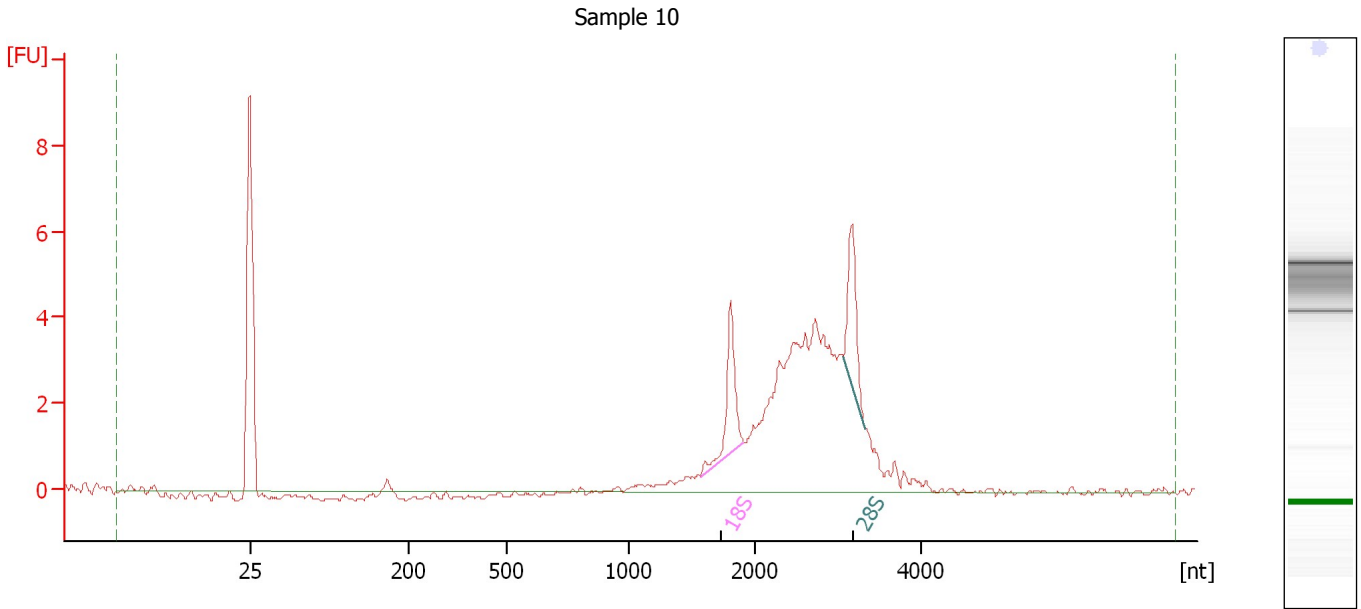
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,696	2,126	2.6	16.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	45.0	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	27 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 5.10

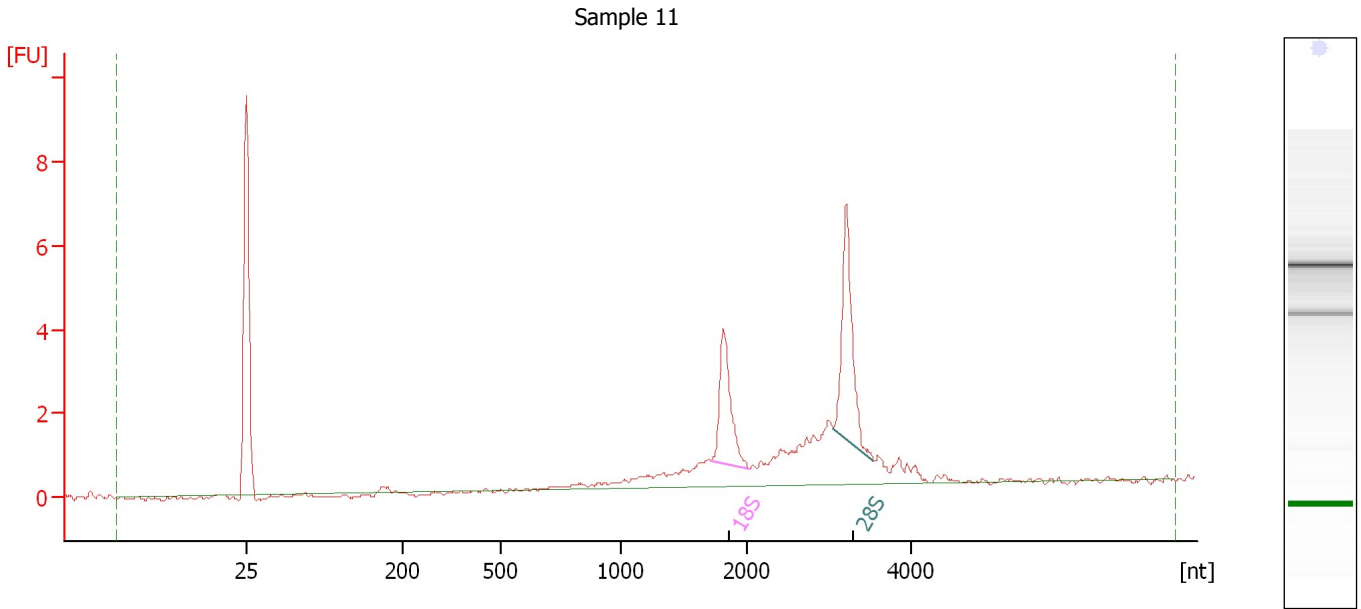
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,904	3.4	7.5
28S	3,066	3,324	3.0	6.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area: 29.0 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 18 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.20

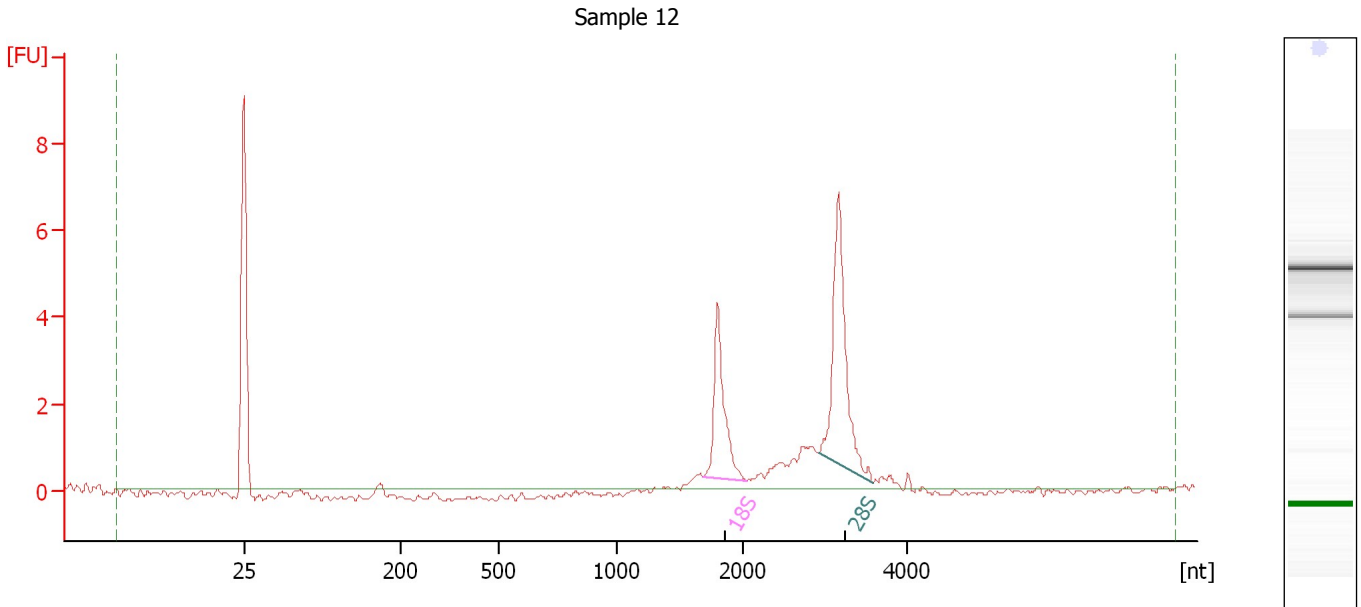
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,705	2,030	4.0	13.7
28S	3,057	3,538	5.6	19.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area:	20.5	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	12 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.60

Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,685	2,054	4.6	22.2
28S	2,928	3,581	7.8	38.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-22\2014-01-22_001.xad

Created: 1/22/2014 10:42:37 AM
Modified: 1/22/2014 11:18:45 AM

Gel Image

