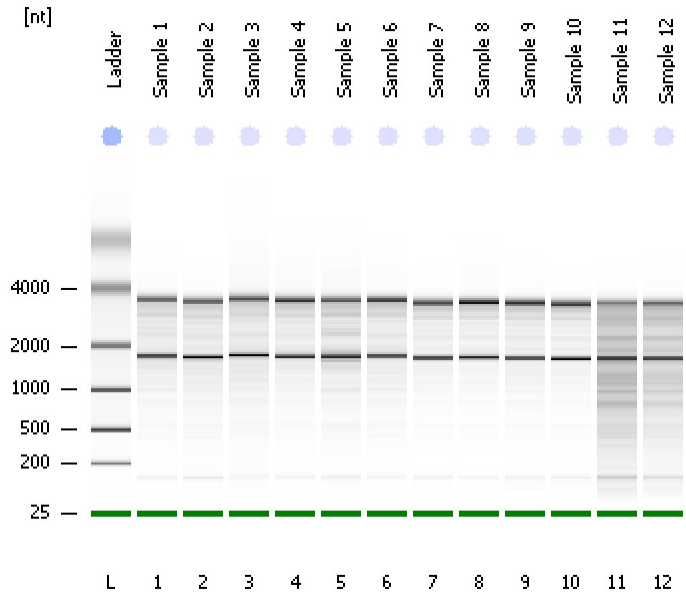


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electrophoresis File Run Summary



Instrument Information:

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

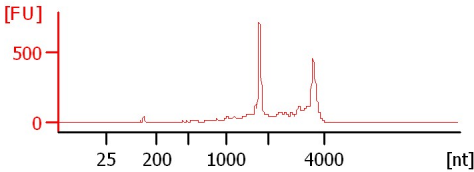
Assay Information:

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)
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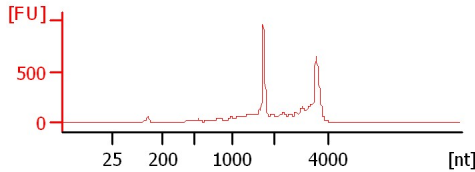
Chip Information:

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

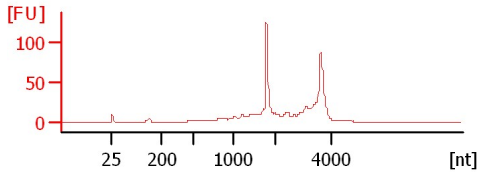
Sample 1
RIN: 7.70



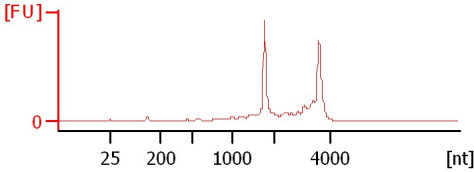
Sample 2
RIN: 7.50



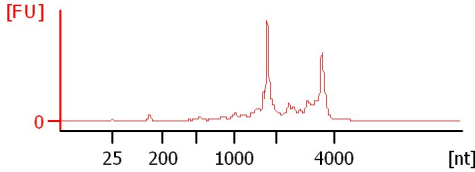
Sample 3
RIN: 7.50



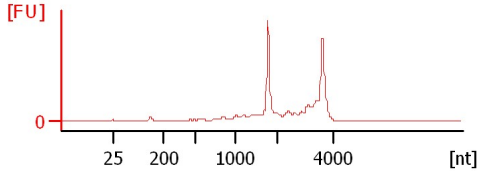
Sample 4
RIN: 8.20



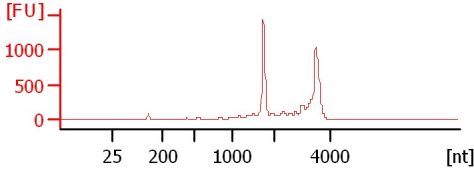
Sample 5
RIN: 7.60



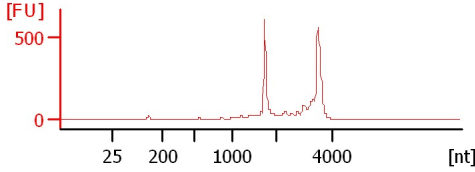
Sample 6
RIN: 7.90



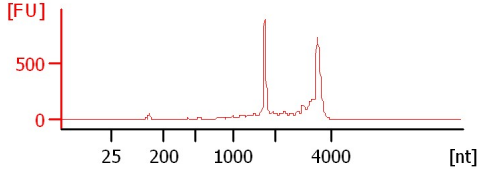
Sample 7
RIN: 8.70



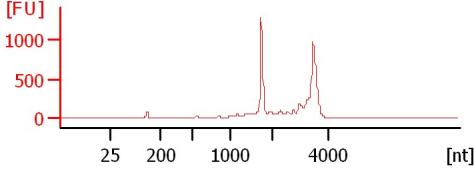
Sample 8
RIN: 9



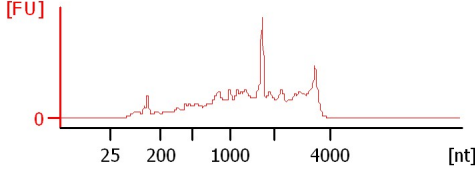
Sample 9
RIN: 8.40



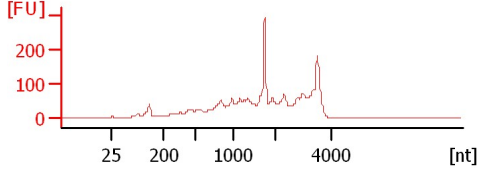
Sample 10
RIN: 8.70



Sample 11
RIN: 5.10



Sample 12
RIN: 5.90



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
 Modified: 12/8/2015 10:02:05 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 7.70	
Sample 2		✓	RIN: 7.50	
Sample 3		✓	RIN: 7.50	
Sample 4		✓	RIN: 8.20	
Sample 5		✓	RIN: 7.60	
Sample 6		✓	RIN: 7.90	
Sample 7		✓	RIN: 8.70	
Sample 8		✓	RIN:9	
Sample 9		✓	RIN: 8.40	
Sample 10		✓	RIN: 8.70	
Sample 11		✓	RIN: 5.10	
Sample 12		✓	RIN: 5.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 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/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

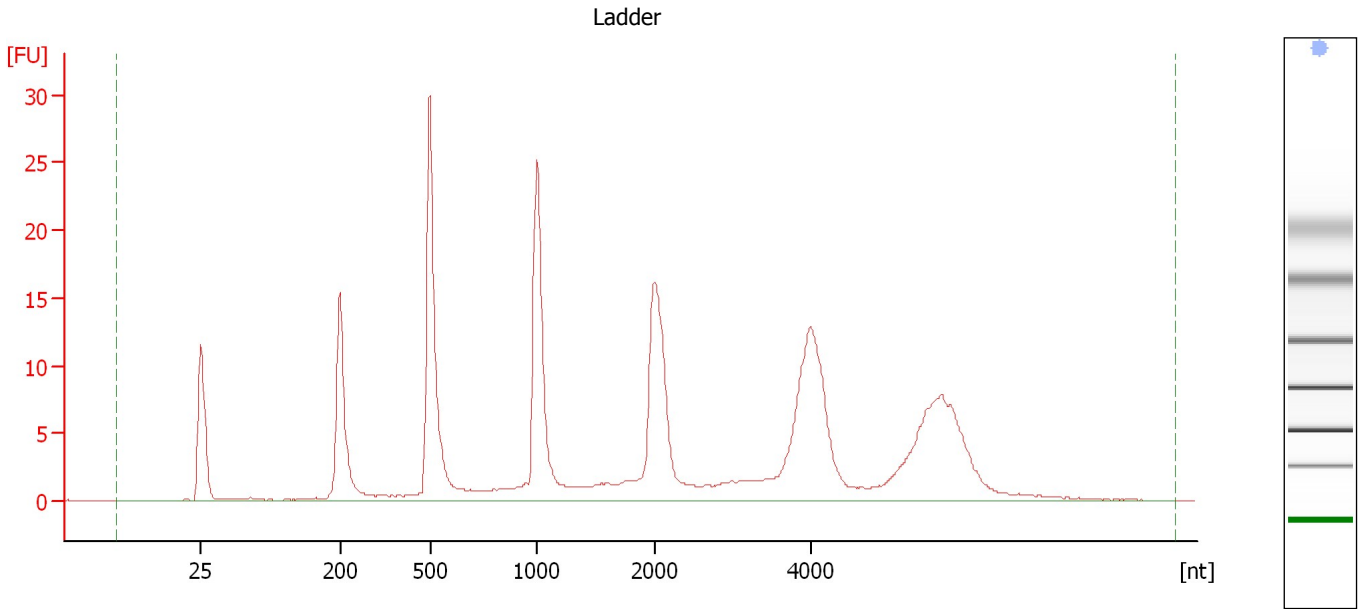
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary



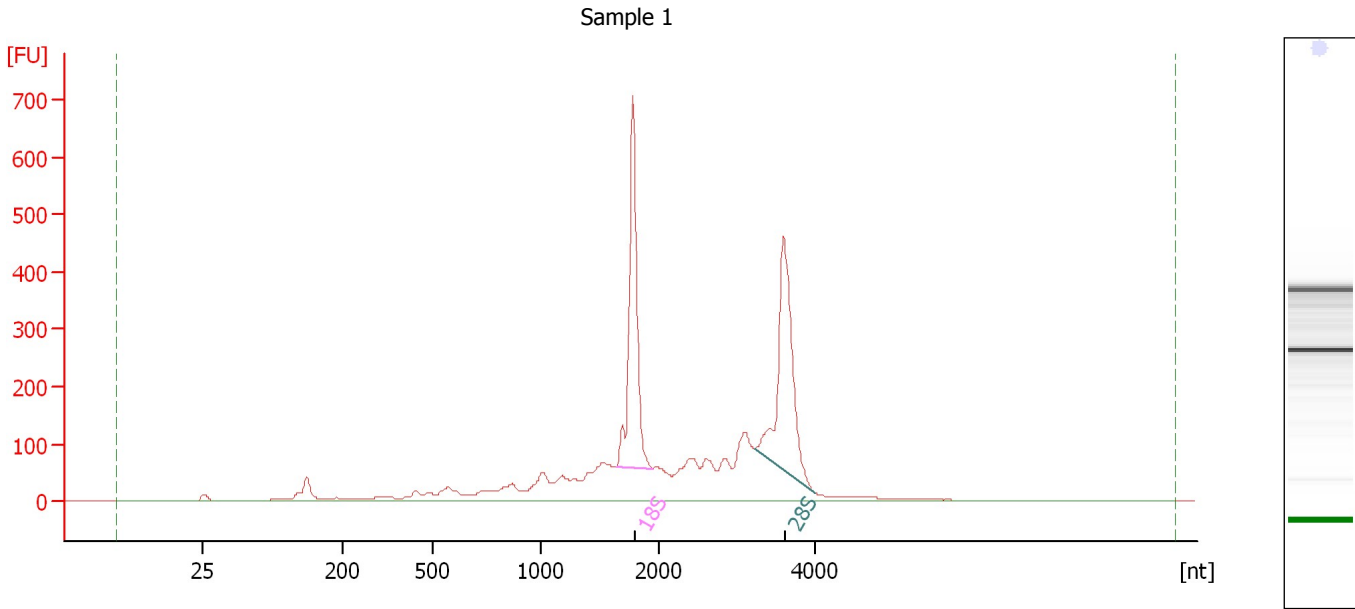
Overall Results for Ladder

RNA Area:	248.5	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	3,404.6	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	2,055 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.70

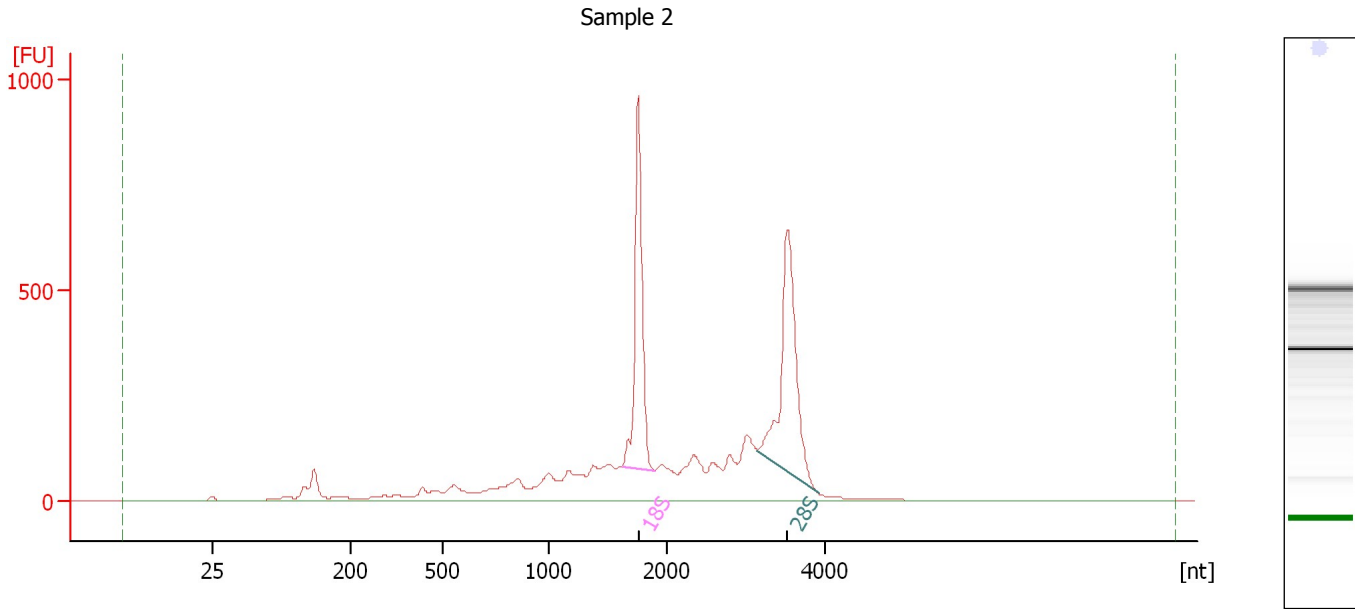
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,639	1,947	628.6	18.5
28S	3,230	3,994	609.0	17.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	4,845.4	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	2,925 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.50

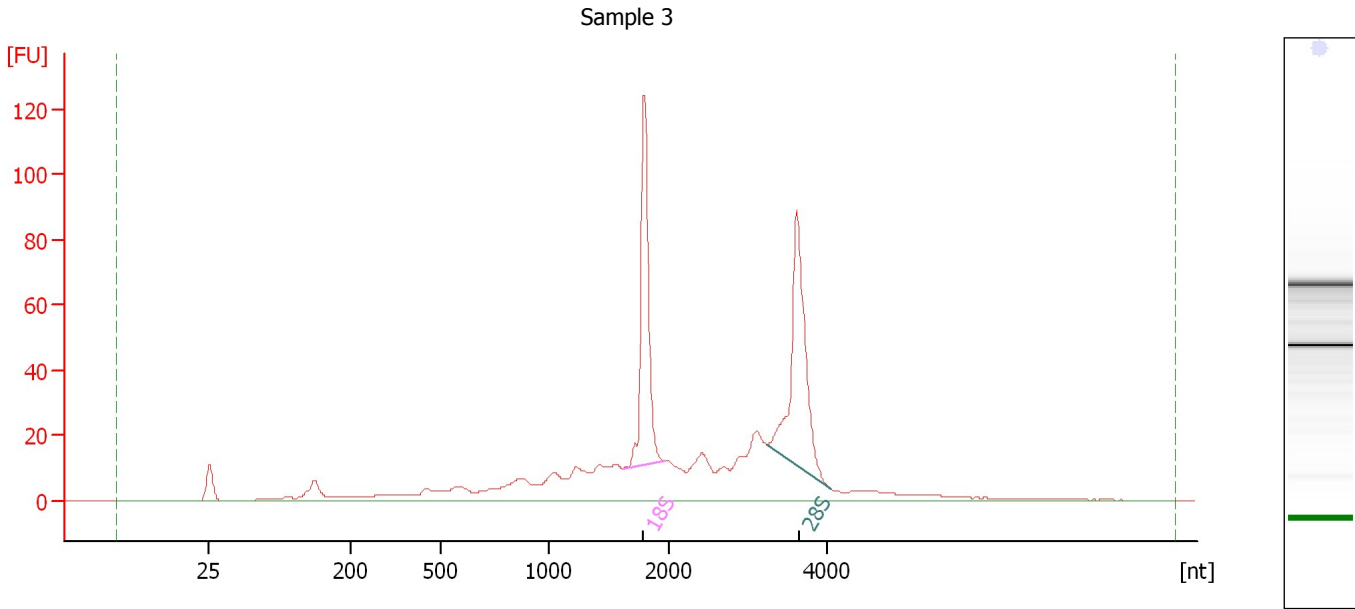
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	1,887	815.8	16.8
28S	3,145	3,931	895.7	18.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	664.5	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	401 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.50

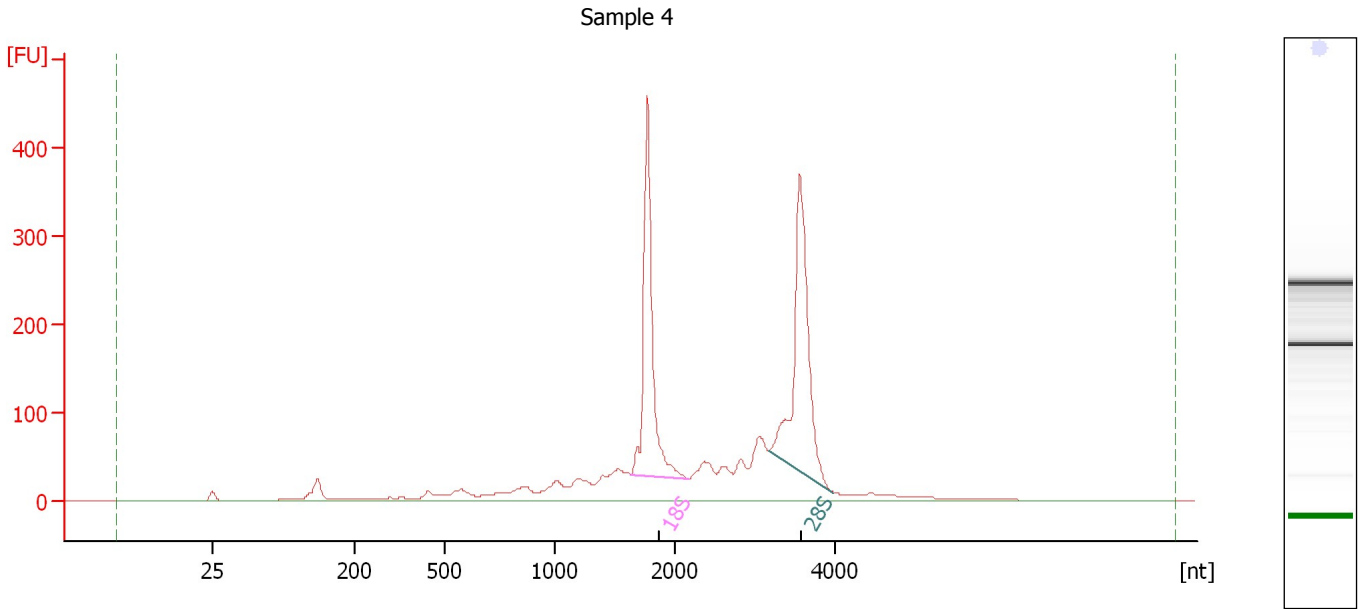
Fragment table for sample 3 : Sample 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,611	1,961	100.8	15.2
28S	3,250	4,047	115.2	17.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 4

RNA Area:	2,161.4	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	1,305 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.20

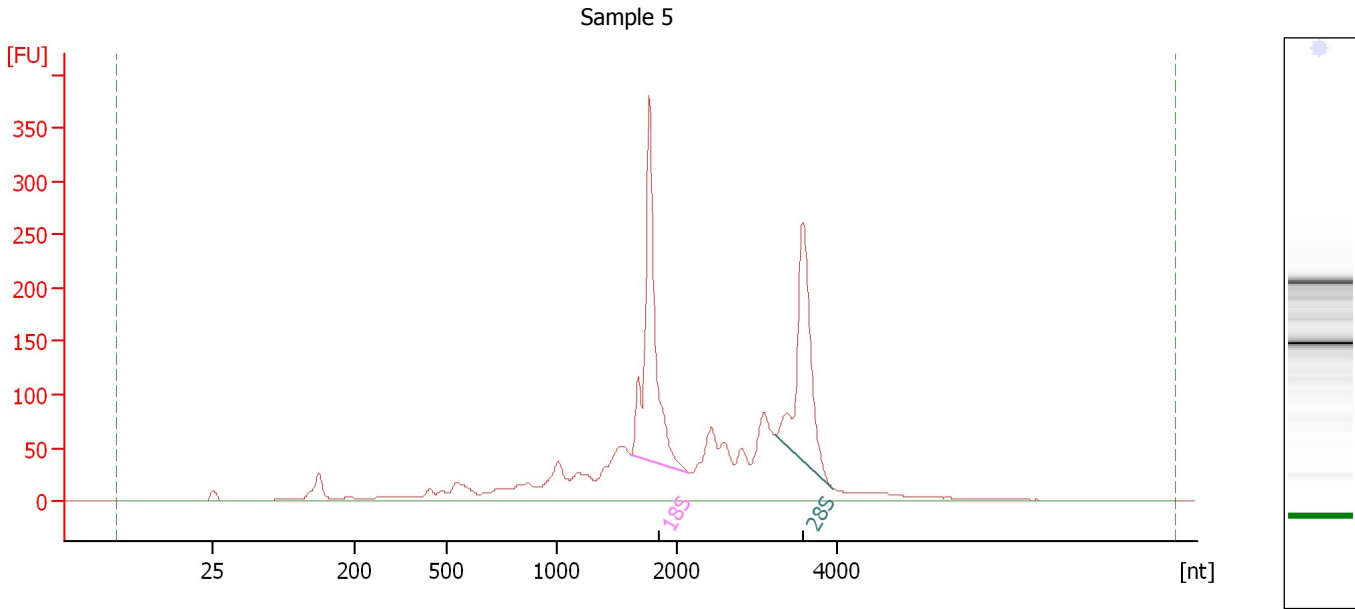
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	2,173	434.9	20.1
28S	3,179	3,997	487.0	22.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	2,213.9	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	1,336 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 7.60

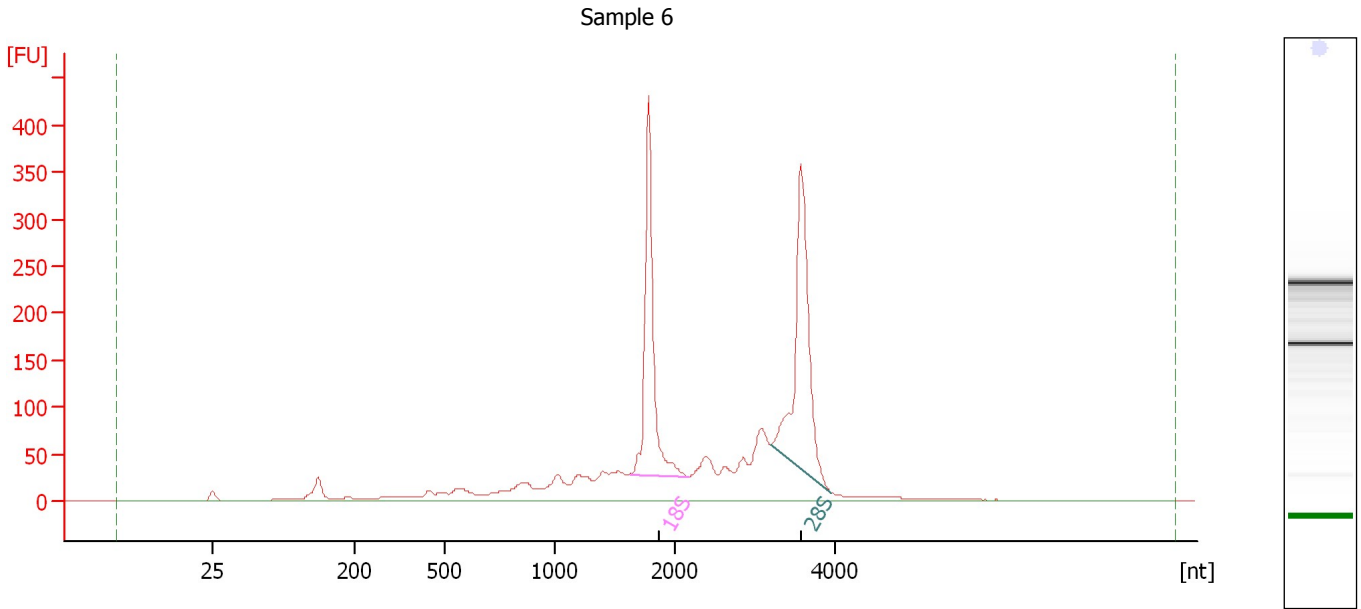
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	2,161	430.4	19.4
28S	3,232	3,954	318.9	14.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	2,112.0	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	1,275 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.90

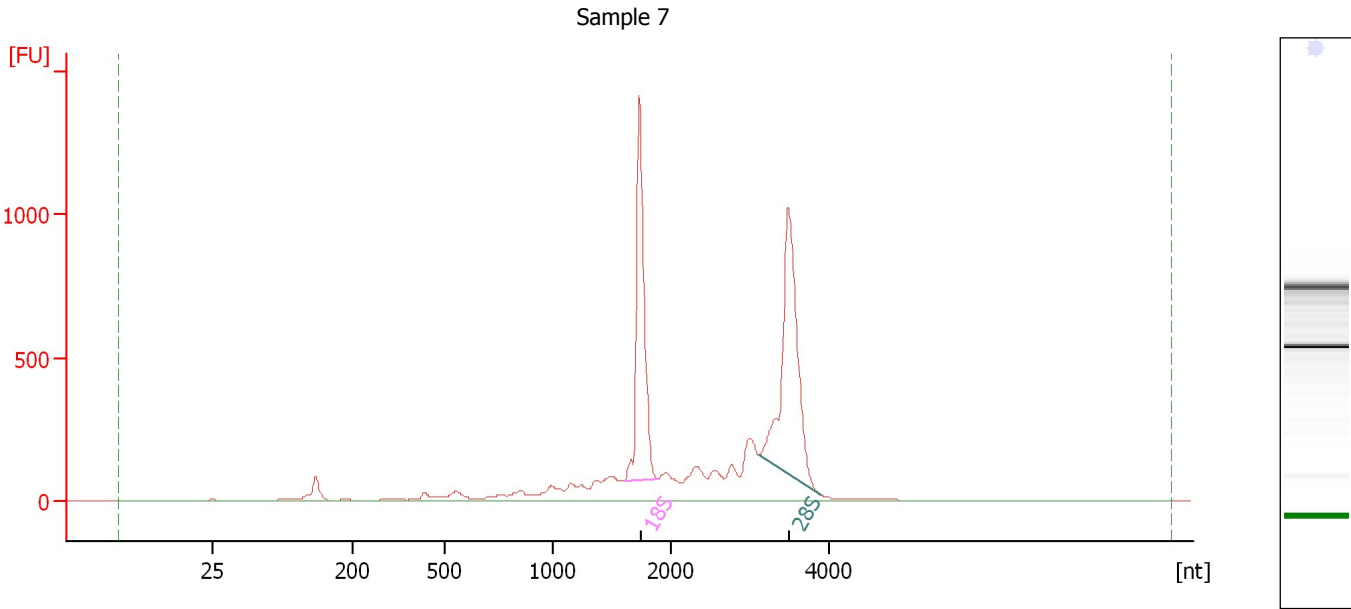
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	2,173	392.8	18.6
28S	3,206	3,957	444.5	21.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	5,803.5	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	3,503 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.70

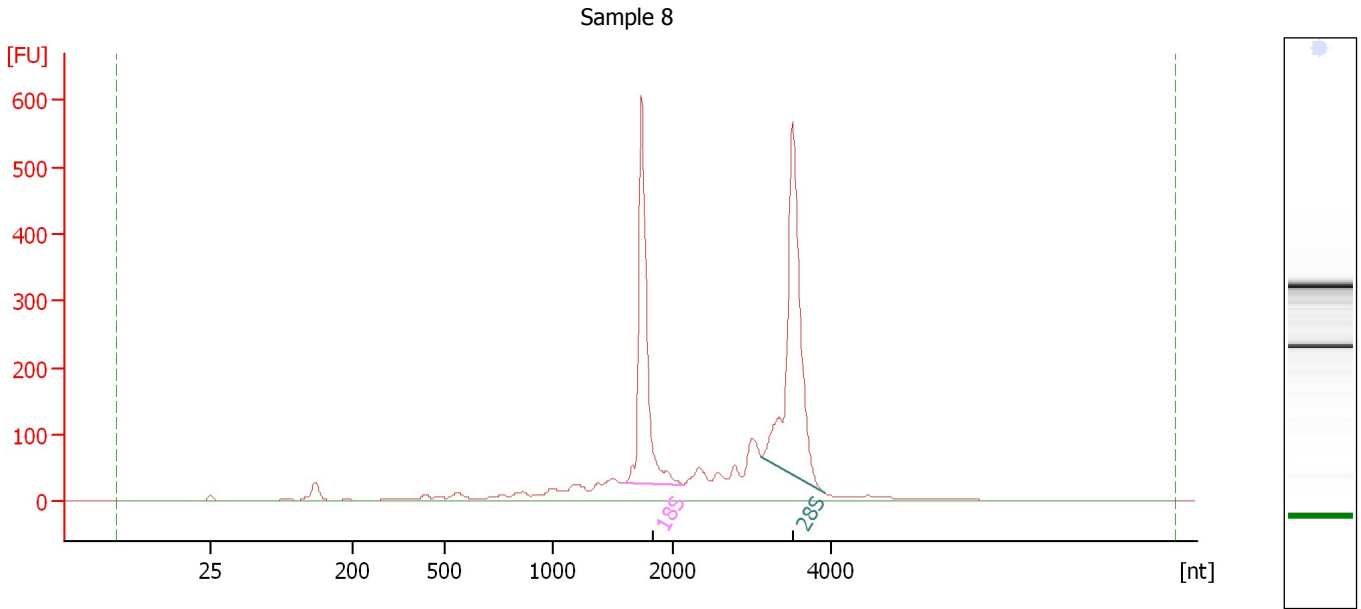
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	1,891	1,271.1	21.9
28S	3,100	3,879	1,520.8	26.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	2,523.3	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	1,523 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:9

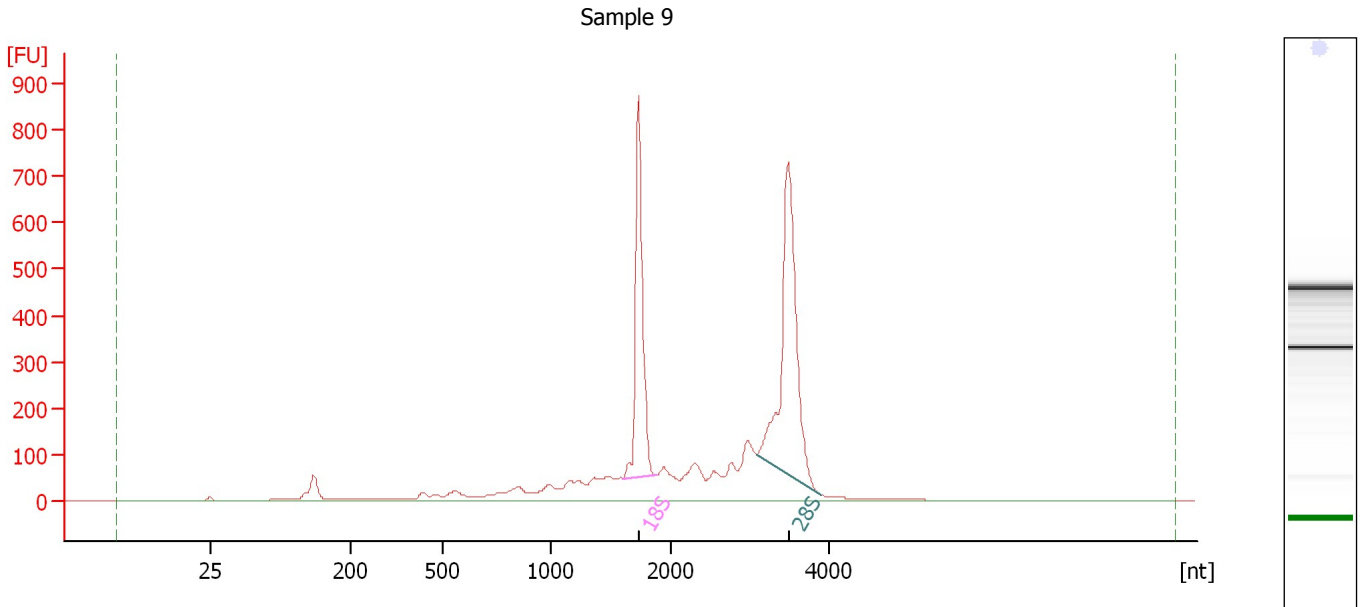
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,606	2,132	561.4	22.2
28S	3,113	3,920	746.3	29.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
 Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	3,838.6	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	2,317 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.40

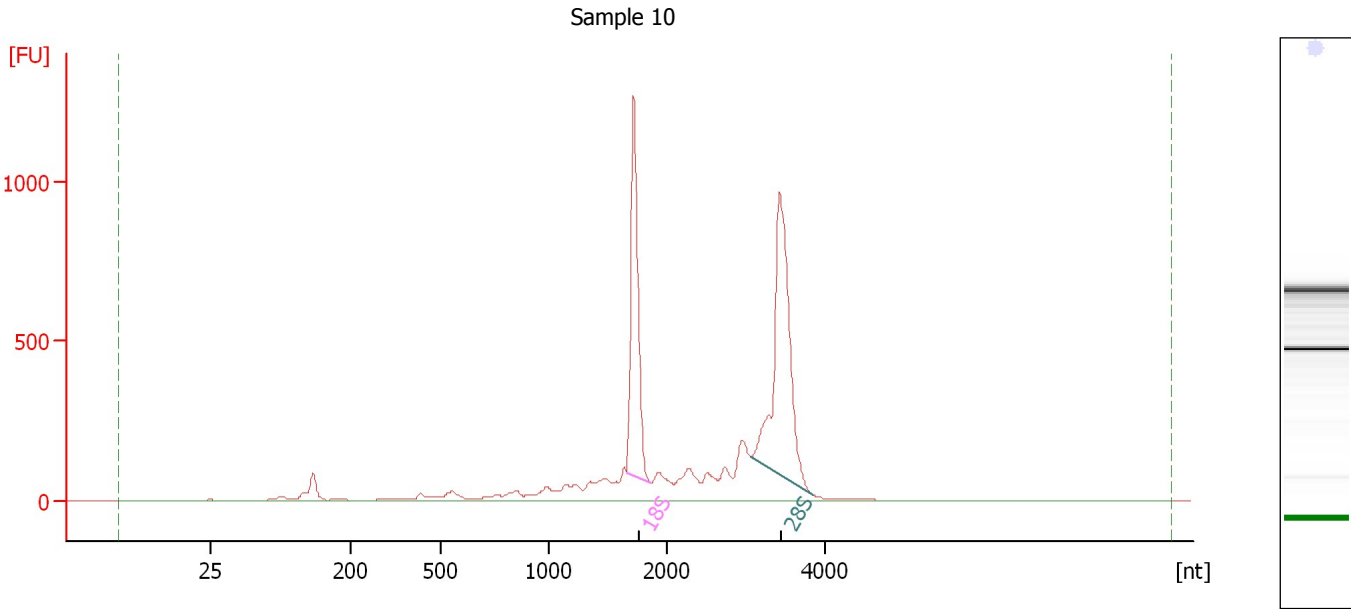
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,604	1,881	714.1	18.6
28S	3,074	3,882	1,034.4	26.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	5,167.3	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	3,119 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.70

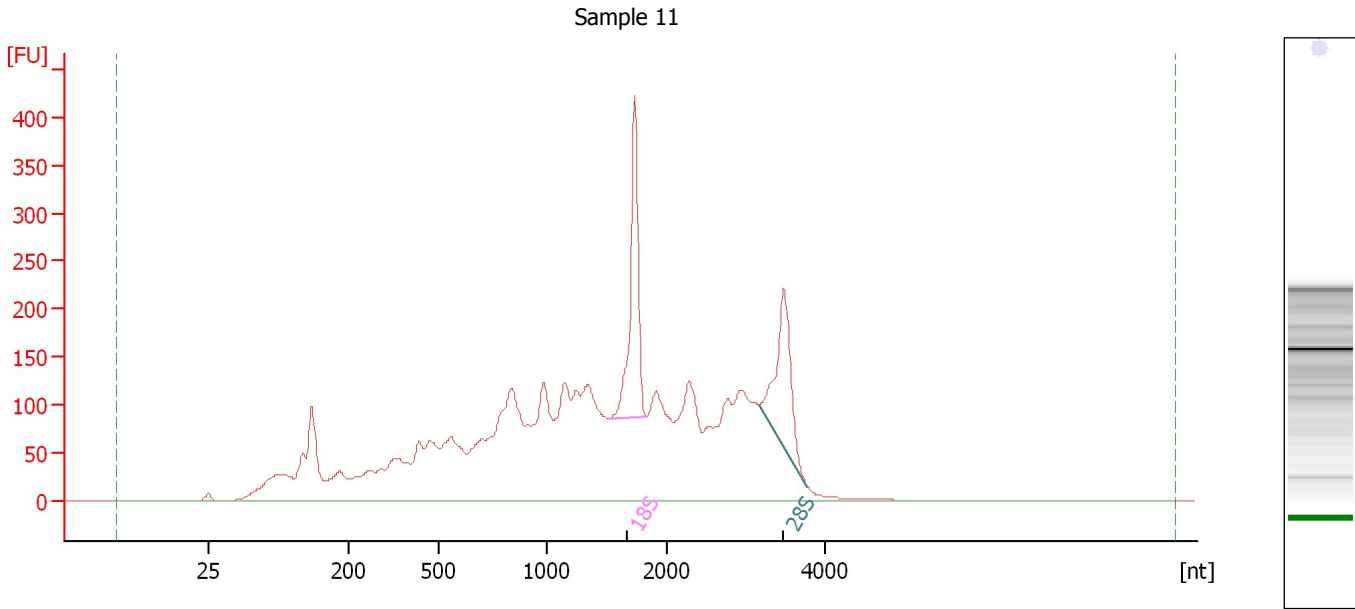
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,656	1,853	1,070.6	20.7
28S	3,061	3,858	1,459.8	28.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area:	5,122.2	RNA Integrity Number (RIN):	5.1 (B.02.08)
RNA Concentration:	3,092 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 5.10

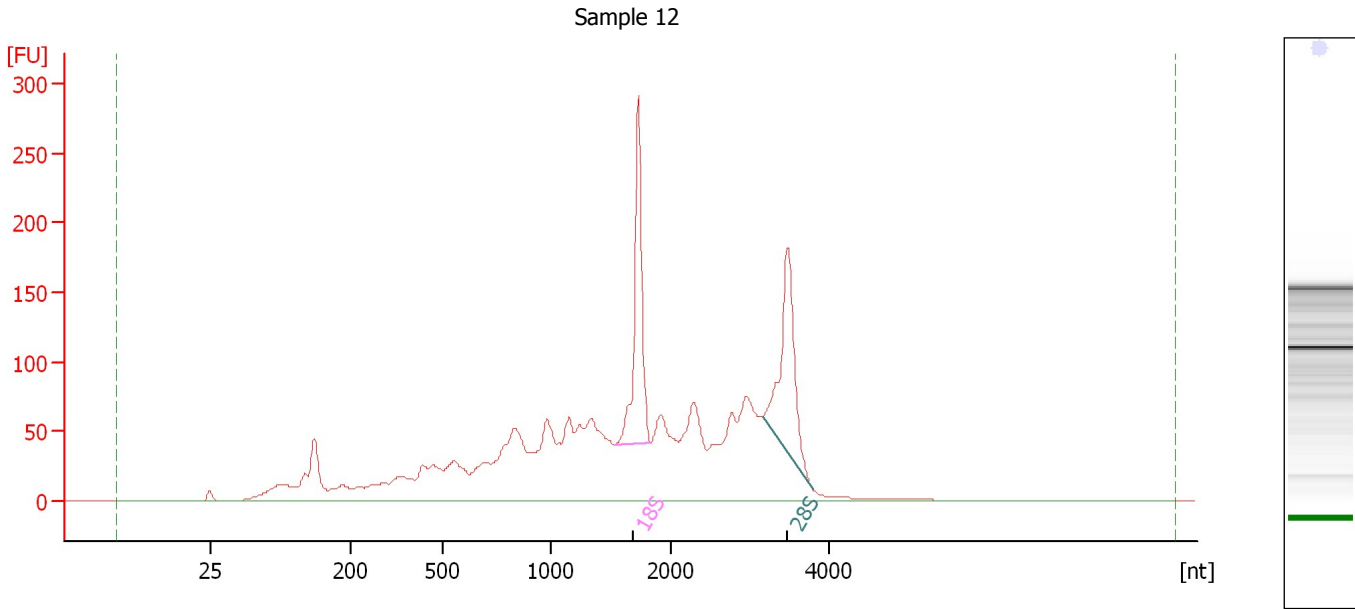
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,511	1,825	333.7	6.5
28S	3,170	3,779	249.2	4.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
 Modified: 12/8/2015 10:02:05 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Sample 12

RNA Area:	2,610.0	RNA Integrity Number (RIN):	5.9 (B.02.08)
RNA Concentration:	1,576 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 5.90

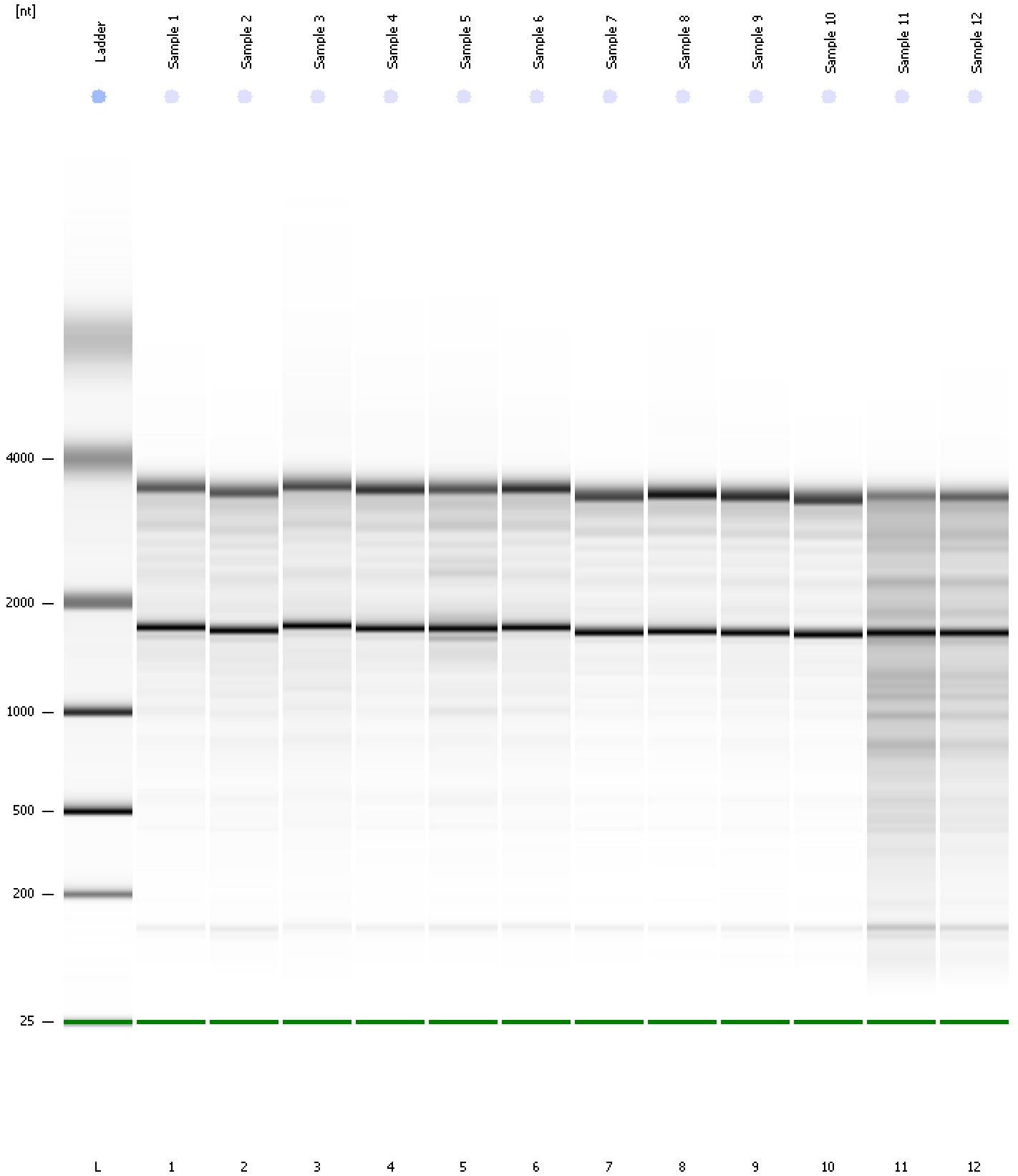
Fragment table for sample 12 : Sample 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,533	1,828	228.8	8.8
28S	3,155	3,788	210.0	8.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
Modified: 12/8/2015 10:02:05 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad

Created: 12/8/2015 9:38:15 AM
 Modified: 12/8/2015 10:02:05 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		12/8/2015 10:02:05 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-12-08\2015-12-08_001.xad)		Instrument	Run		12/8/2015 9:38:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/8/2015 9:38:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/8/2015 9:38:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/8/2015 9:38:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/8/2015 9:38:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/8/2015 9:38:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/8/2015 9:38:21 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1