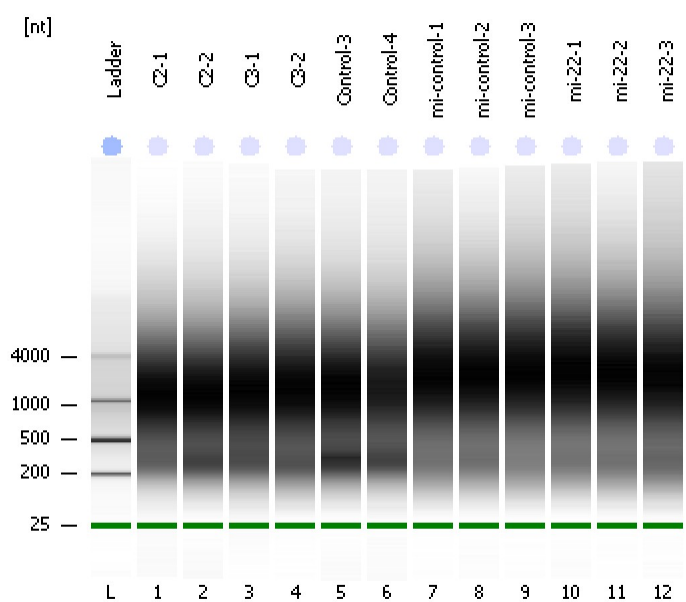


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

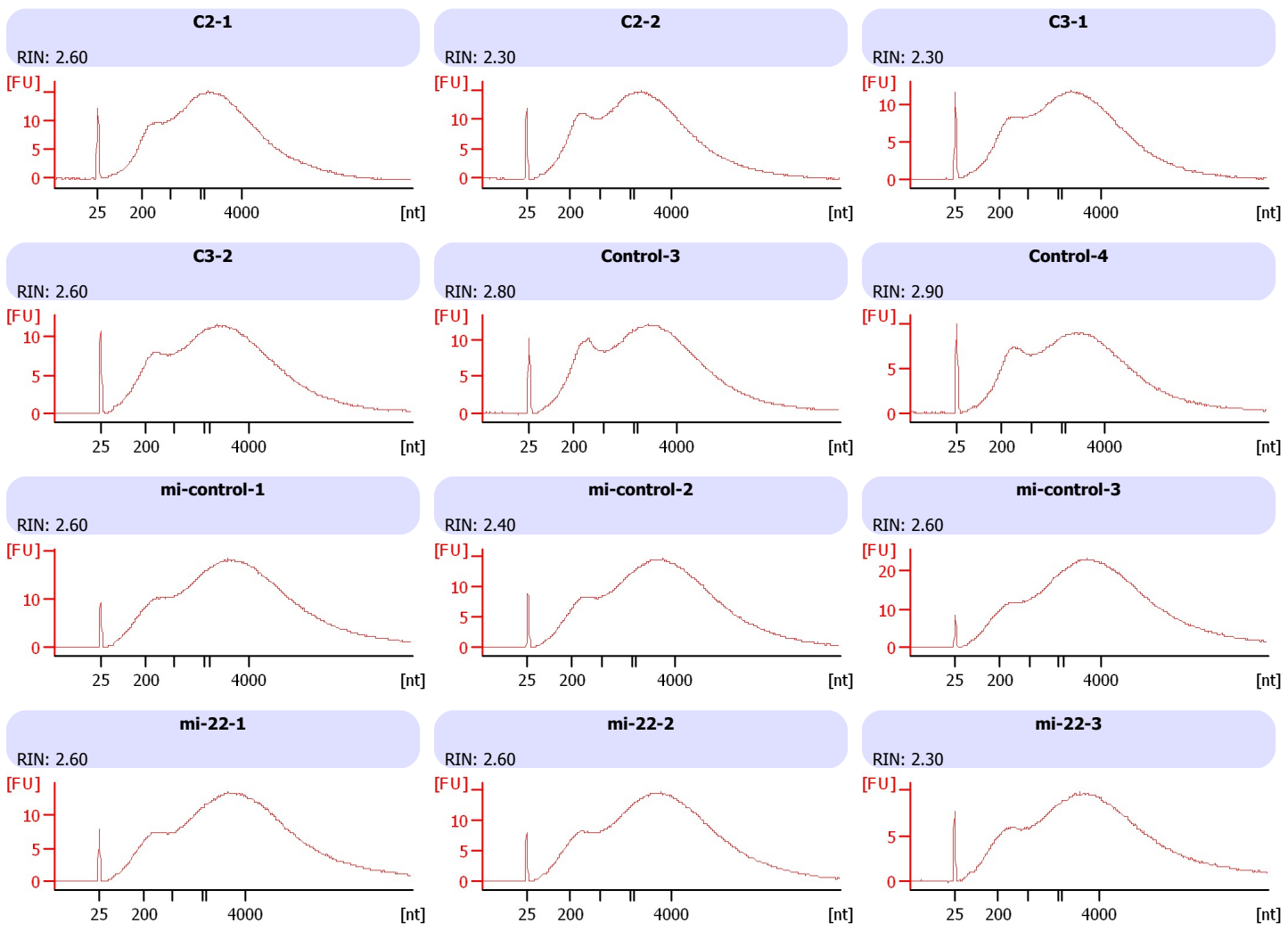
Electrophoresis File Run Summary



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\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
C2-1		✓	RIN: 2.60	
C2-2		✓	RIN: 2.30	
C3-1		✓	RIN: 2.30	
C3-2		✓	RIN: 2.60	
Control-3		✓	RIN: 2.80	
Control-4		✓	RIN: 2.90	
mi-control-1		✓	RIN: 2.60	
mi-control-2		✓	RIN: 2.40	
mi-control-3		✓	RIN: 2.60	
mi-22-1		✓	RIN: 2.60	
mi-22-2		✓	RIN: 2.60	
mi-22-3		✓	RIN: 2.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 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

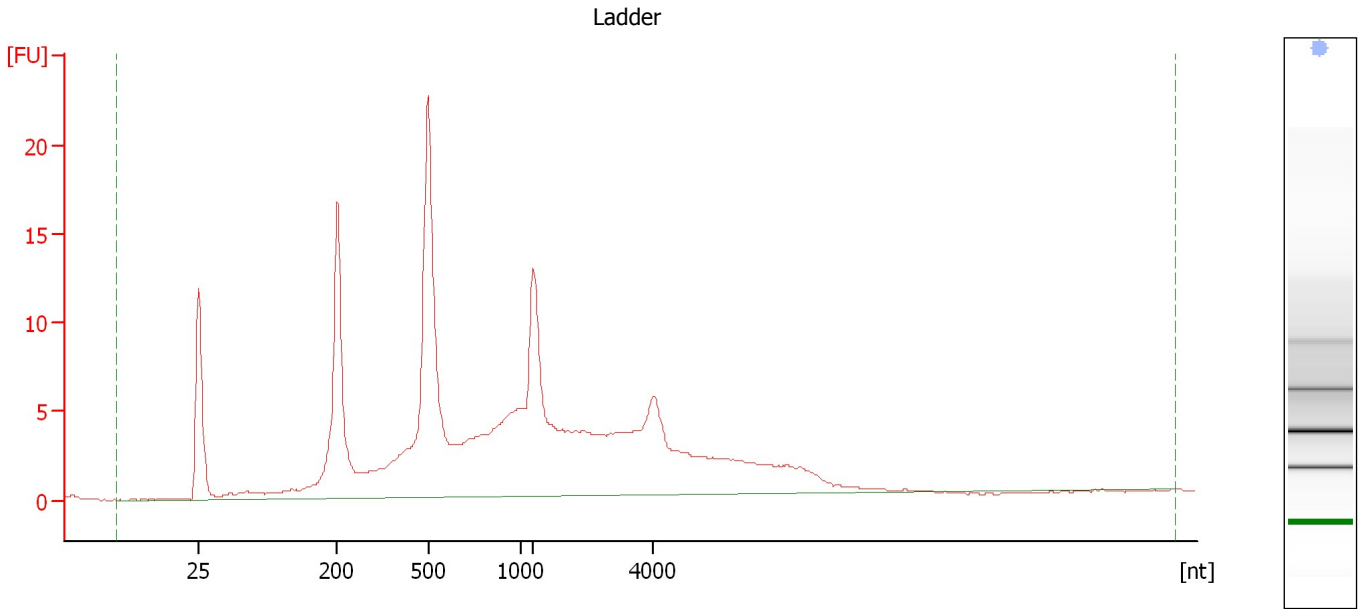
Ladder

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\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary



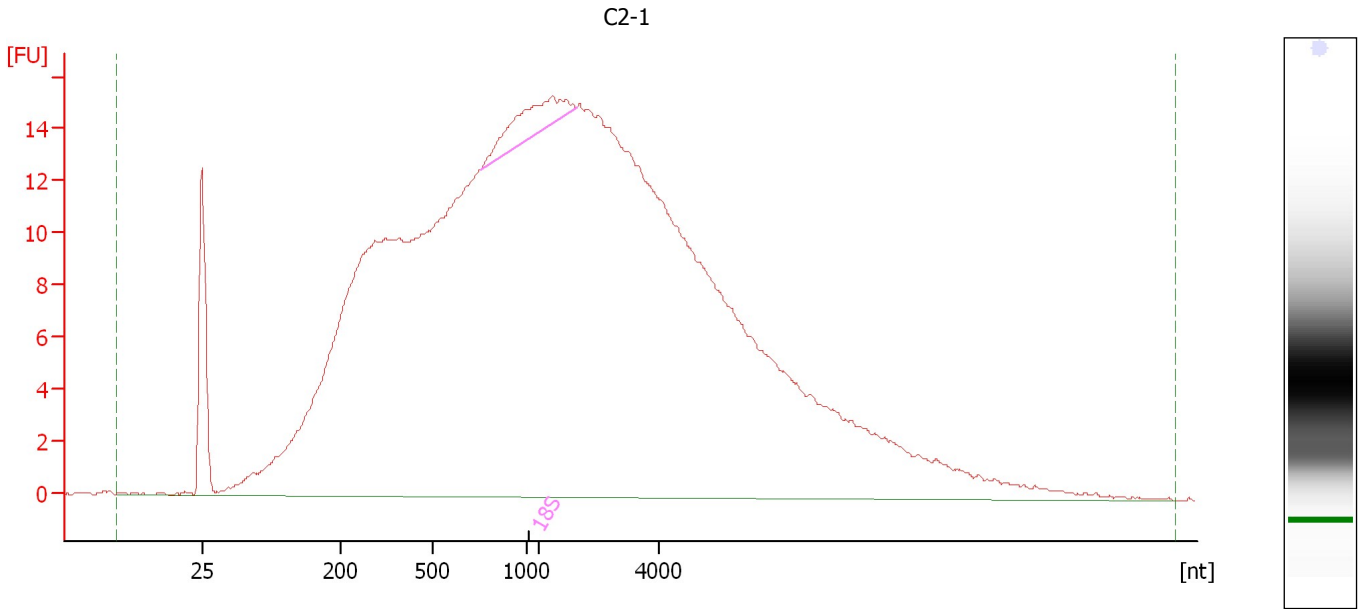
Overall Results for Ladder

RNA Area:	231.9	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\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : C2-1

RNA Area:	677.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	438 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

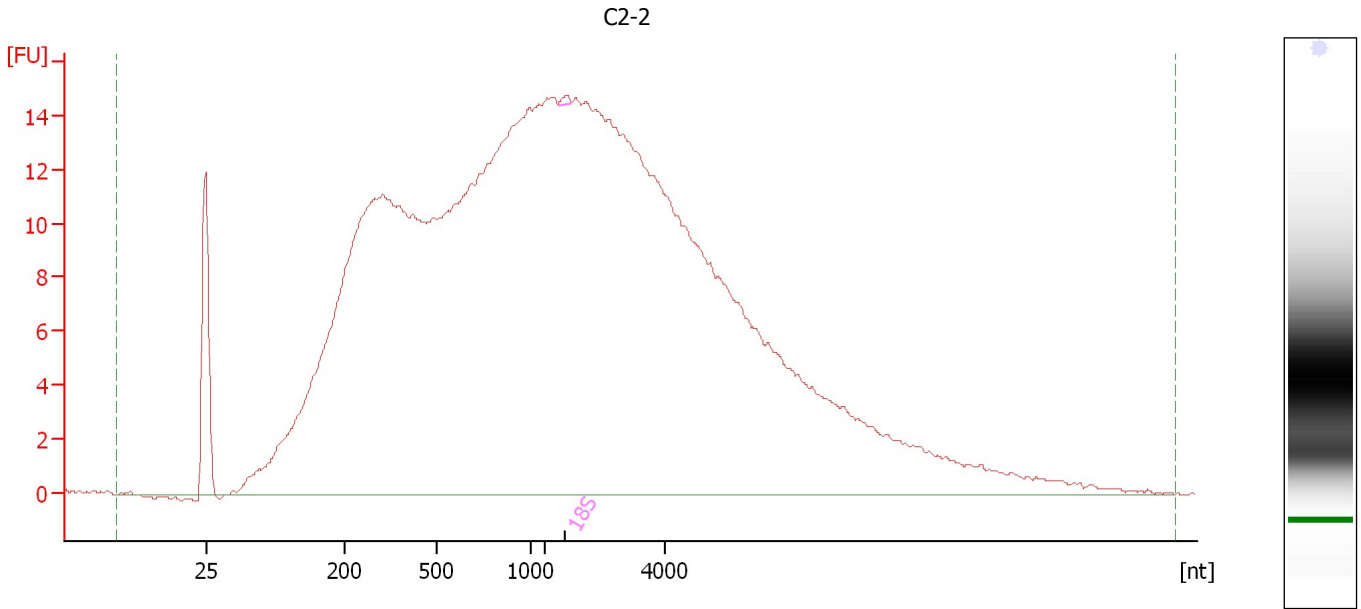
Fragment table for sample 1 : C2-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	754	2,638	9.2	1.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : C2-2

RNA Area:	682.0	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	441 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

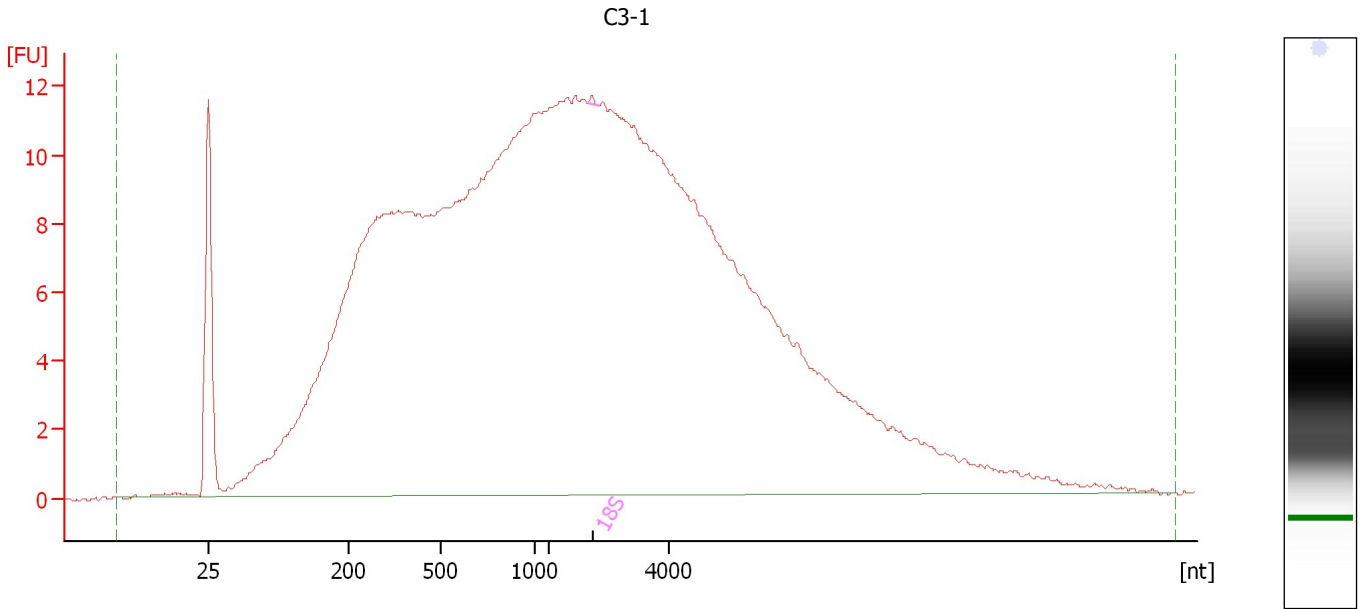
Fragment table for sample 2 : C2-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,228	2,440	0.3	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : C3-1

RNA Area:	553.0	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	358 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

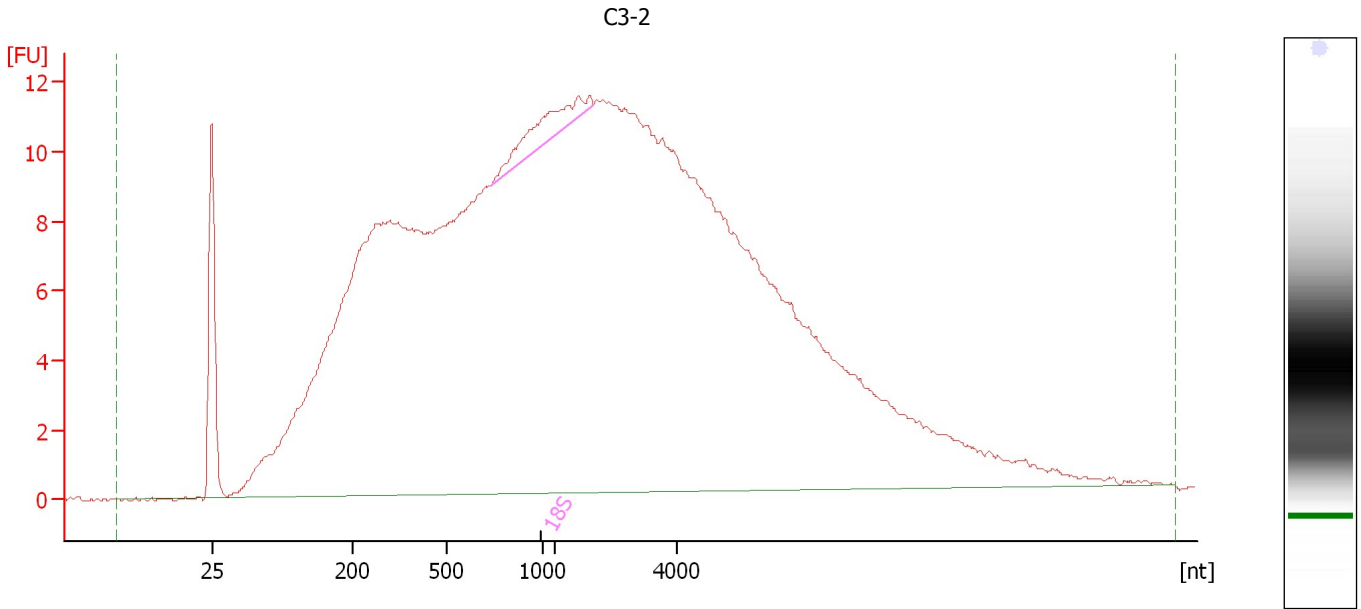
Fragment table for sample 3 : C3-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,660	2,829	0.1	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : C3-2

RNA Area:	555.6	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	359 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

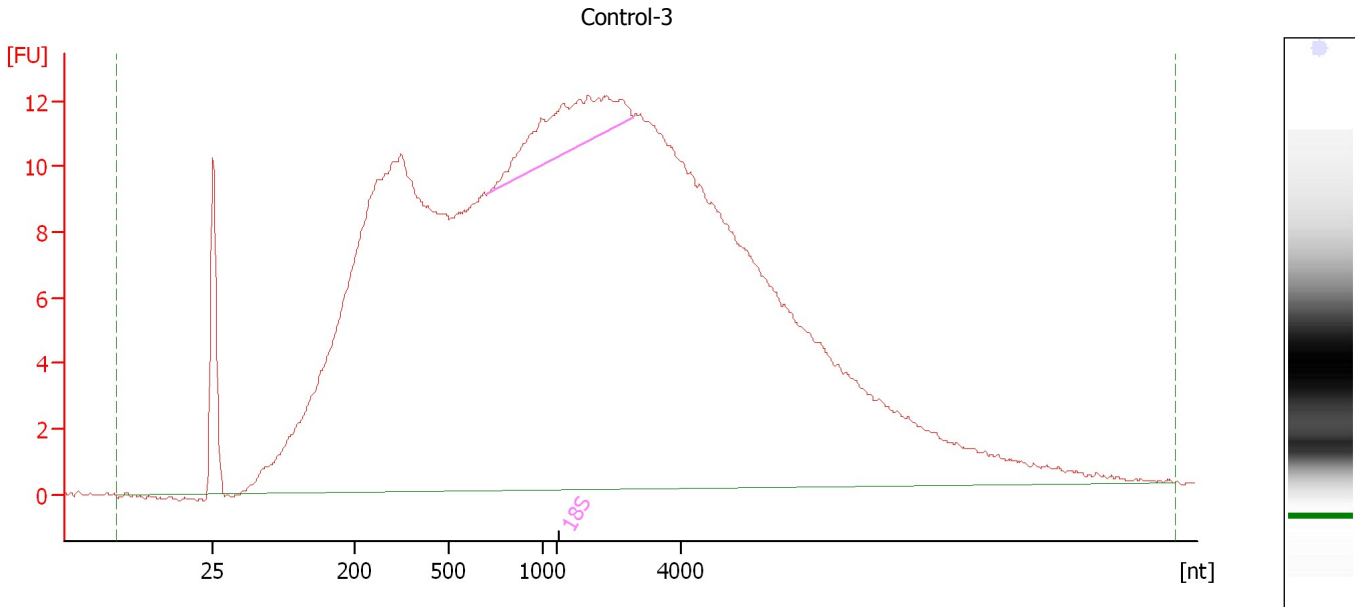
Fragment table for sample 4 : C3-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	726	2,626	6.1	1.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
 Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Control-3

RNA Area:	586.3	RNA Integrity Number (RIN):	2.8 (B.02.08)
RNA Concentration:	379 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.80

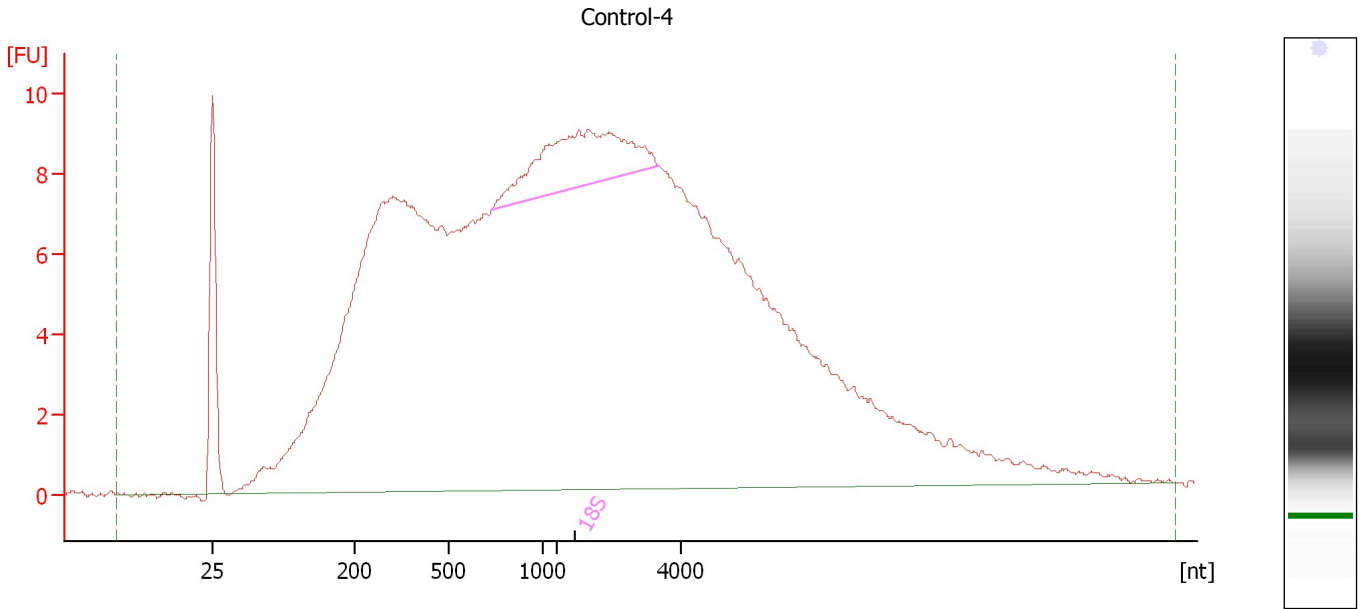
Fragment table for sample 5 : Control-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	707	3,238	16.1	2.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Control-4

RNA Area:	436.4	RNA Integrity Number (RIN):	2.9 (B.02.08)
RNA Concentration:	282 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.90

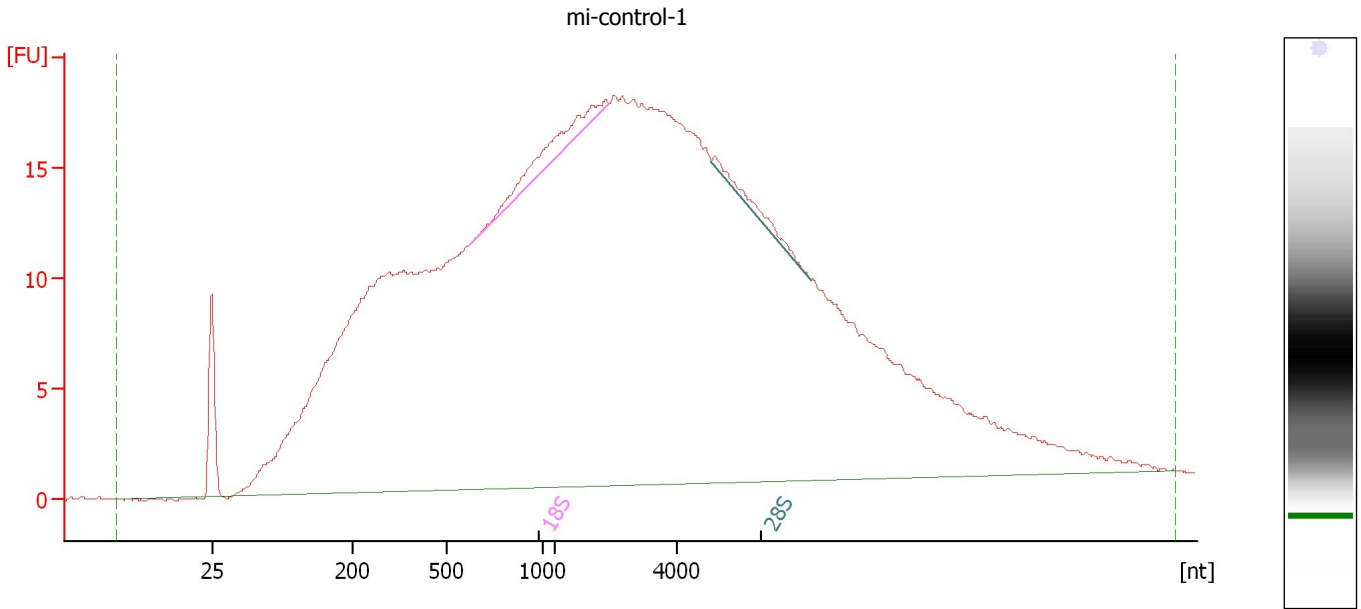
Fragment table for sample 6 : Control-4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	723	3,672	16.7	3.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
 Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : mi-control-1

RNA Area:	858.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	555 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.3	Result Flagging Label:	RIN: 2.60

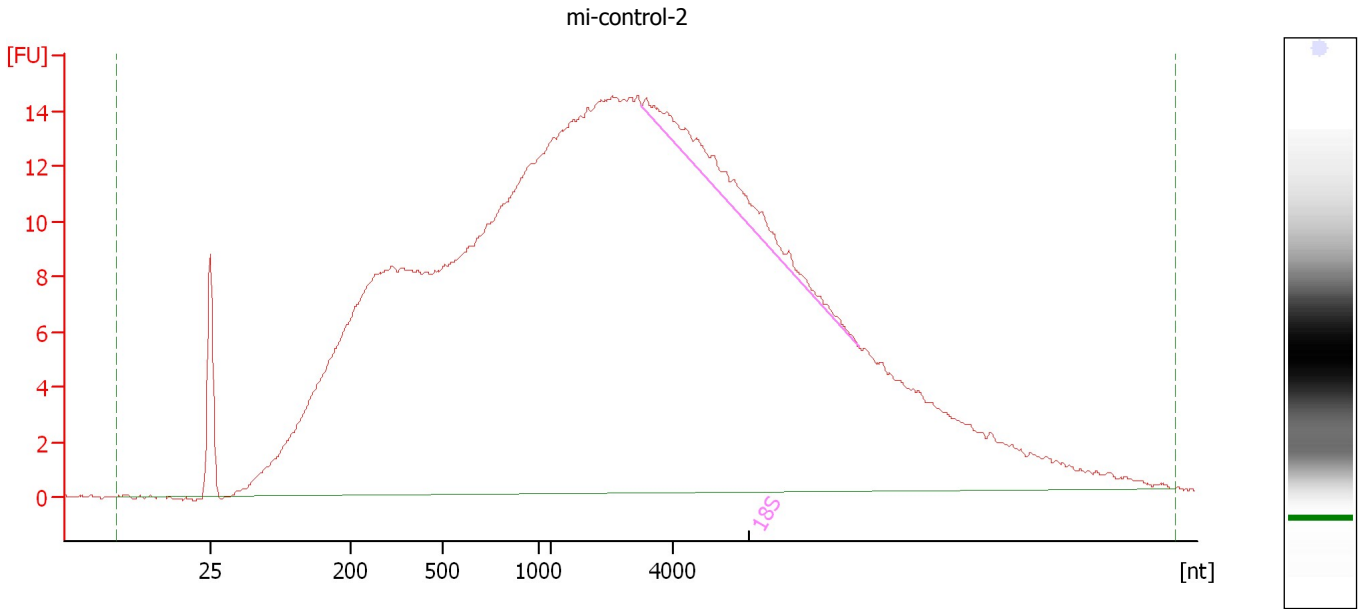
Fragment table for sample 7 : mi-control-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	626	2,887	9.5	1.1
28S	4,541	6,160	3.0	0.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : mi-control-2

RNA Area:	695.9	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	450 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

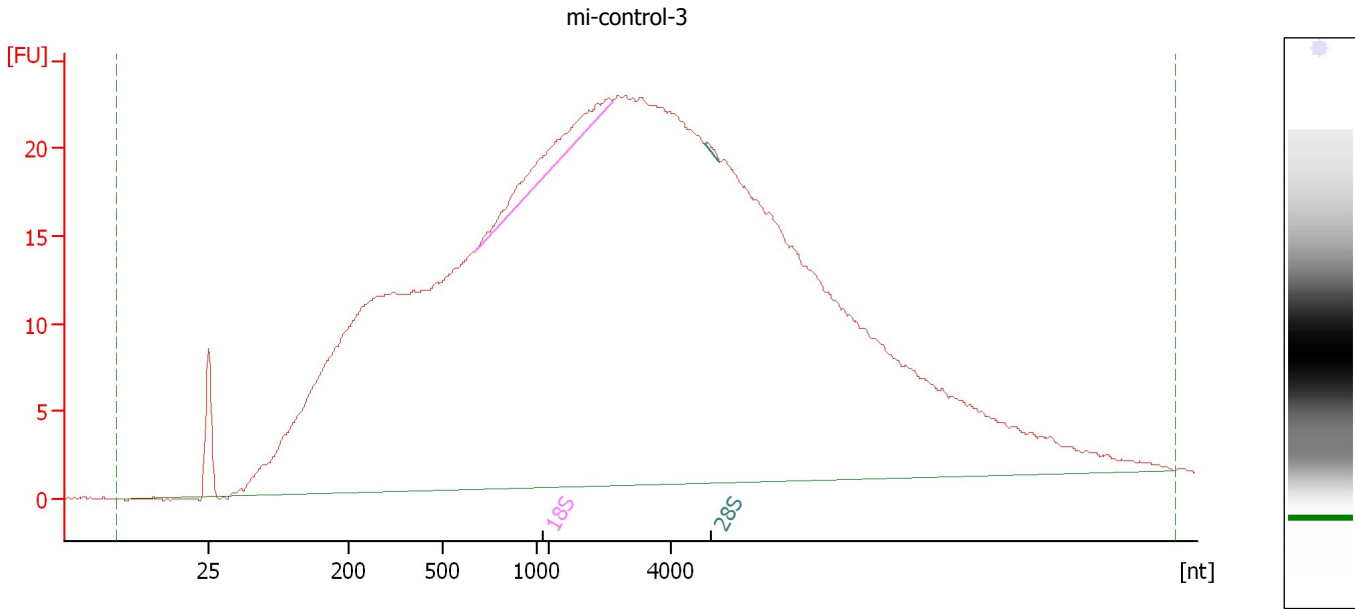
Fragment table for sample 8 : mi-control-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	3,473	7,022	12.8	1.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
 Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : mi-control-3

RNA Area:	1,077.1	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	697 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

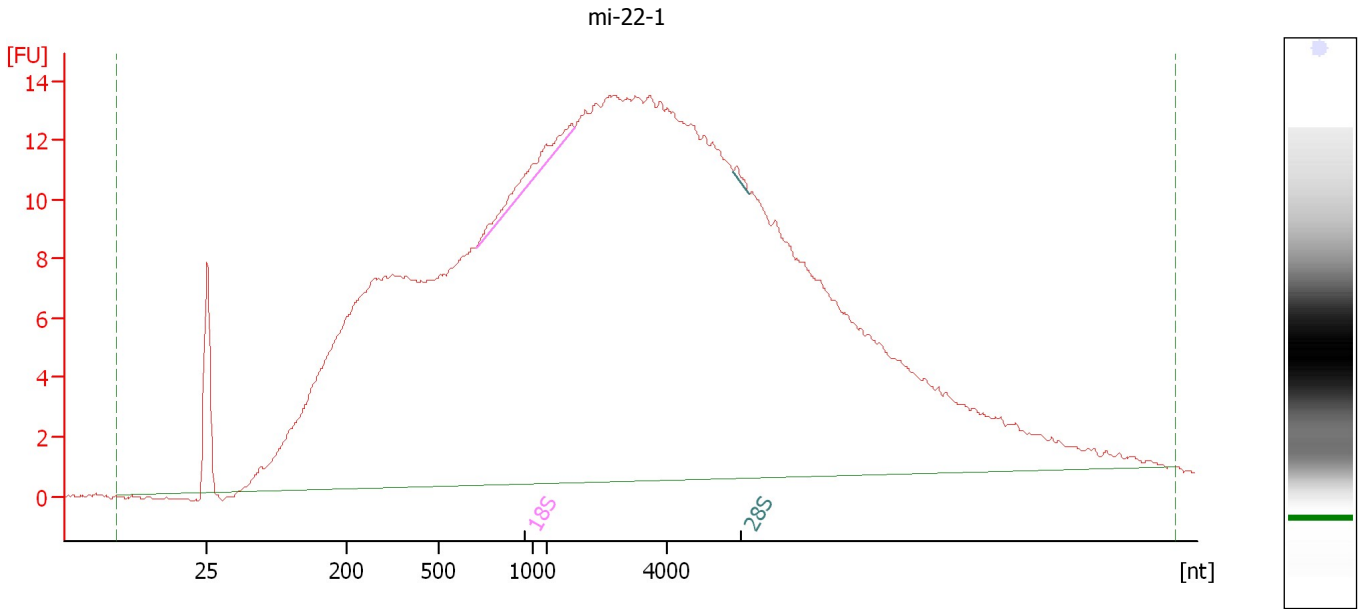
Fragment table for sample 9 : mi-control-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	674	3,033	13.2	1.2
28S	4,557	4,785	0.3	0.0

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
 Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : mi-22-1

RNA Area:	631.7	RNA Integrity Number (RIN):	2.6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	409 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.60

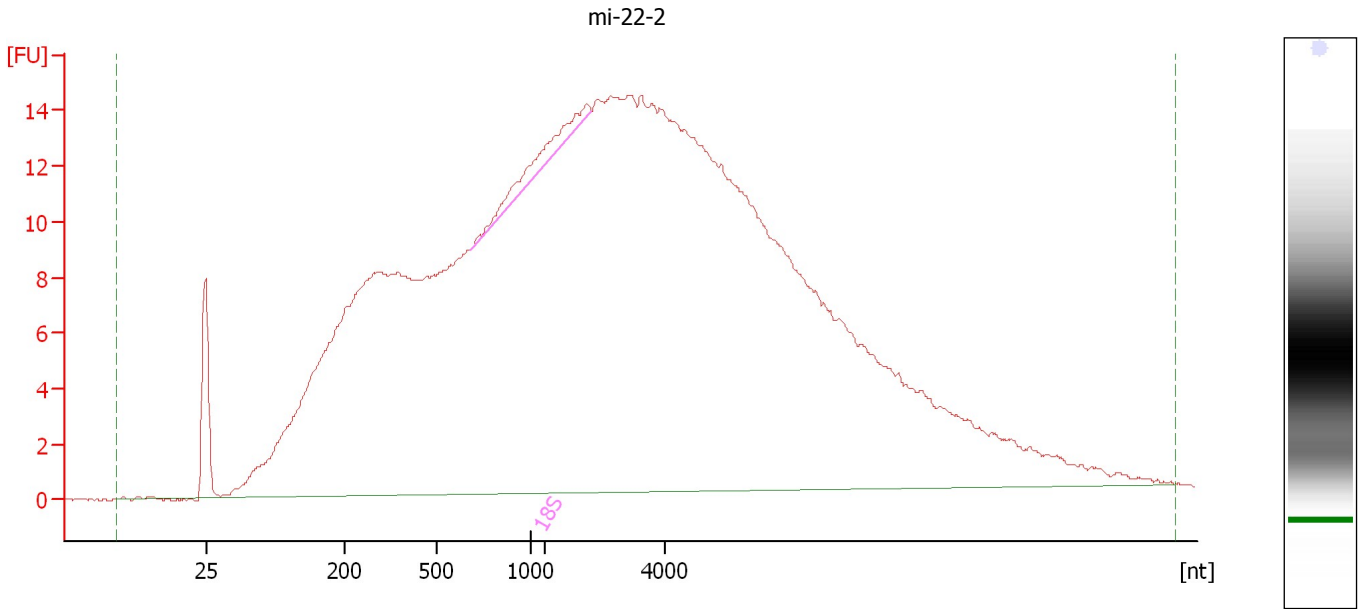
Fragment table for sample 10 : mi-22-1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	697	2,480	3.9	0.6
28S	5,084	5,330	0.3	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : mi-22-2

RNA Area:	698.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	452 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

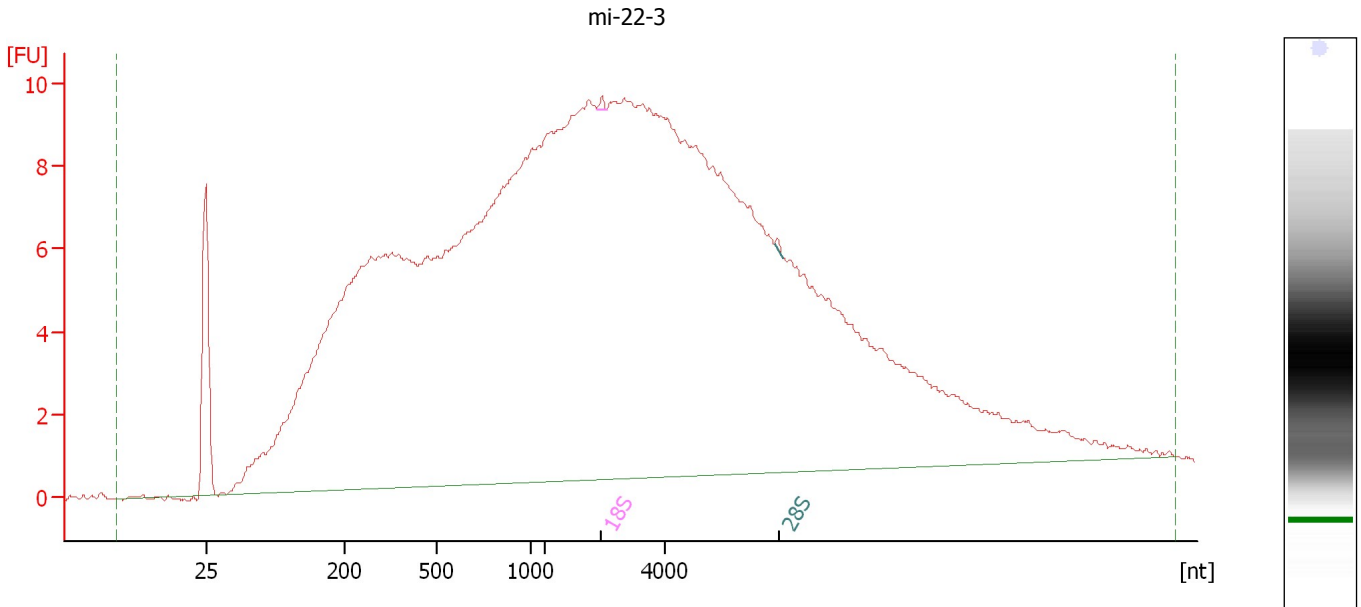
Fragment table for sample 11 : mi-22-2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	682	2,781	6.4	0.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
 Modified: 11/3/2016 12:06:59 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : mi-22-3

RNA Area:	463.6	RNA Integrity Number (RIN):	2.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	300 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 2.30

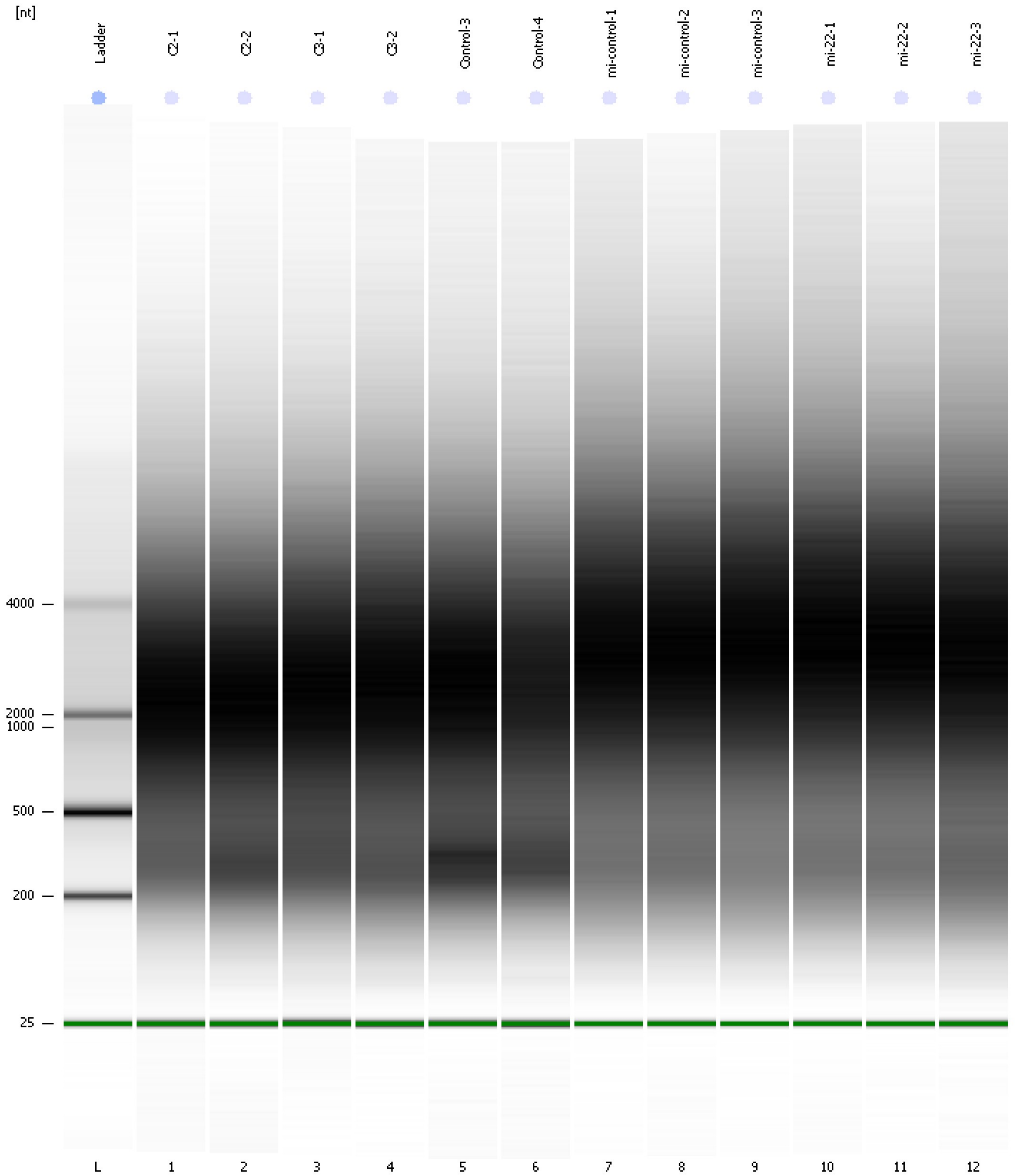
Fragment table for sample 12 : mi-22-3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,863	3,022	0.2	0.0
28S	5,790	5,948	0.1	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
Modified: 11/3/2016 12:06:59 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad

Created: 11/3/2016 11:41:46 AM
 Modified: 11/3/2016 12:06:59 PM

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		11/3/2016 12:04:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-11-03\2016-11-03_002.xad)		Instrument	Run		11/3/2016 11:41:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/3/2016 11:41:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/3/2016 11:41:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/3/2016 11:41:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/3/2016 11:41:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/3/2016 11:41:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/3/2016 11:41:52 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1