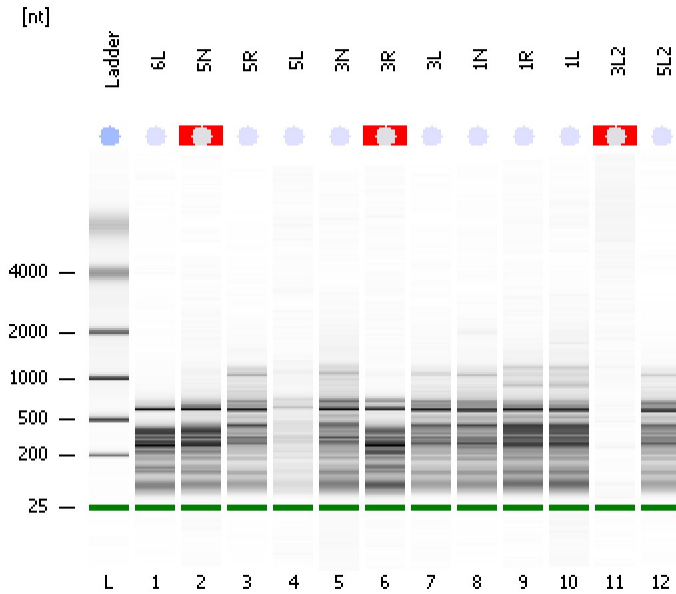


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 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)

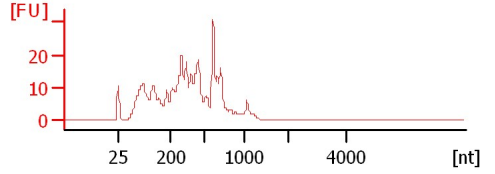
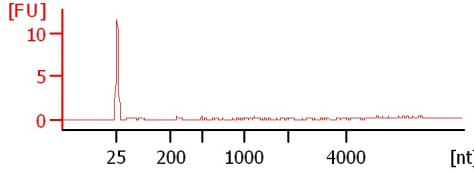
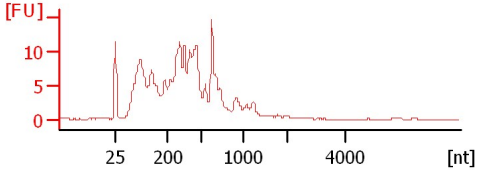
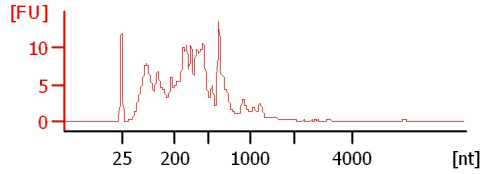
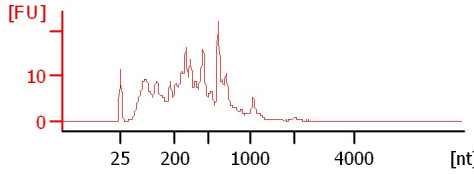
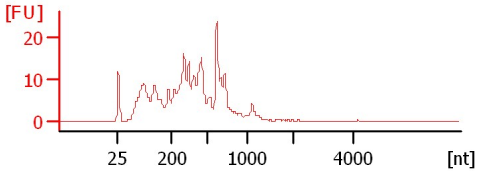
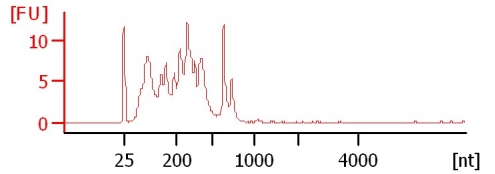
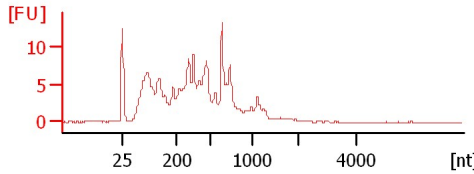
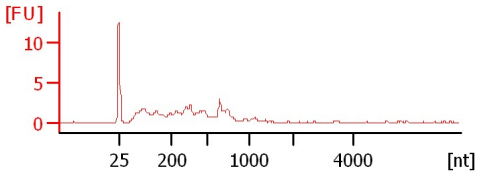
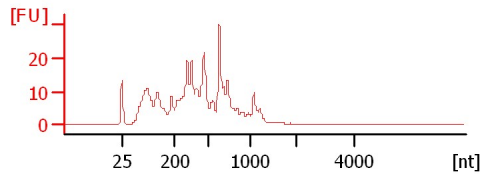
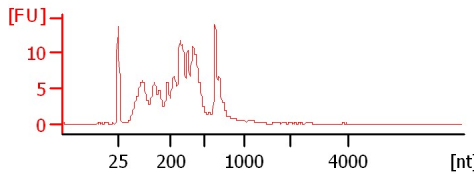
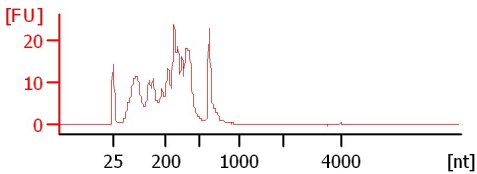
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Chip Information:

Chip Lot #:

Reagent Kit Lot #:

Chip Comments:



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
 Modified: 6/27/2016 10:10:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
6L		✓	RIN: 2.60	
5N		✓	RIN N/A	
5R		✓	RIN: 2.50	
5L		✓	RIN: 2.10	
3N		✓	RIN: 2.50	
3R		✓	RIN N/A	
3L		✓	RIN: 2.30	
1N		✓	RIN: 2.70	
1R		✓	RIN: 2.40	
1L		✓	RIN: 2.40	
3L2		✓	RIN N/A	
5L2		✓	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\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 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] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

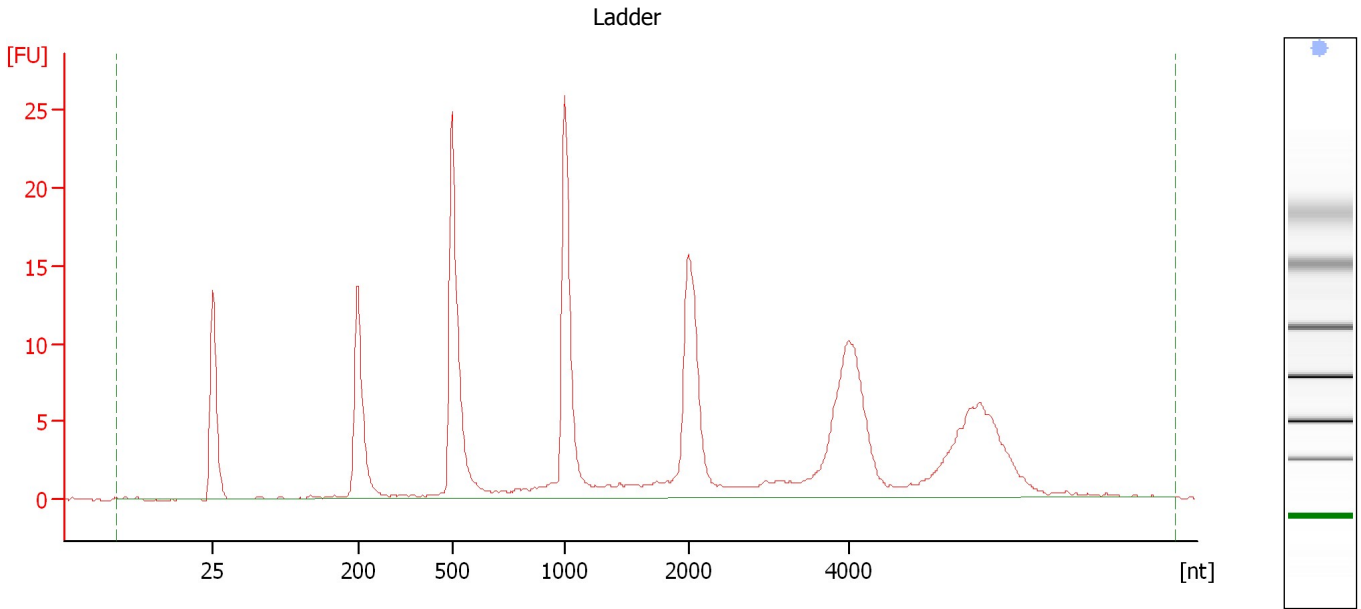
Ladder

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\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary



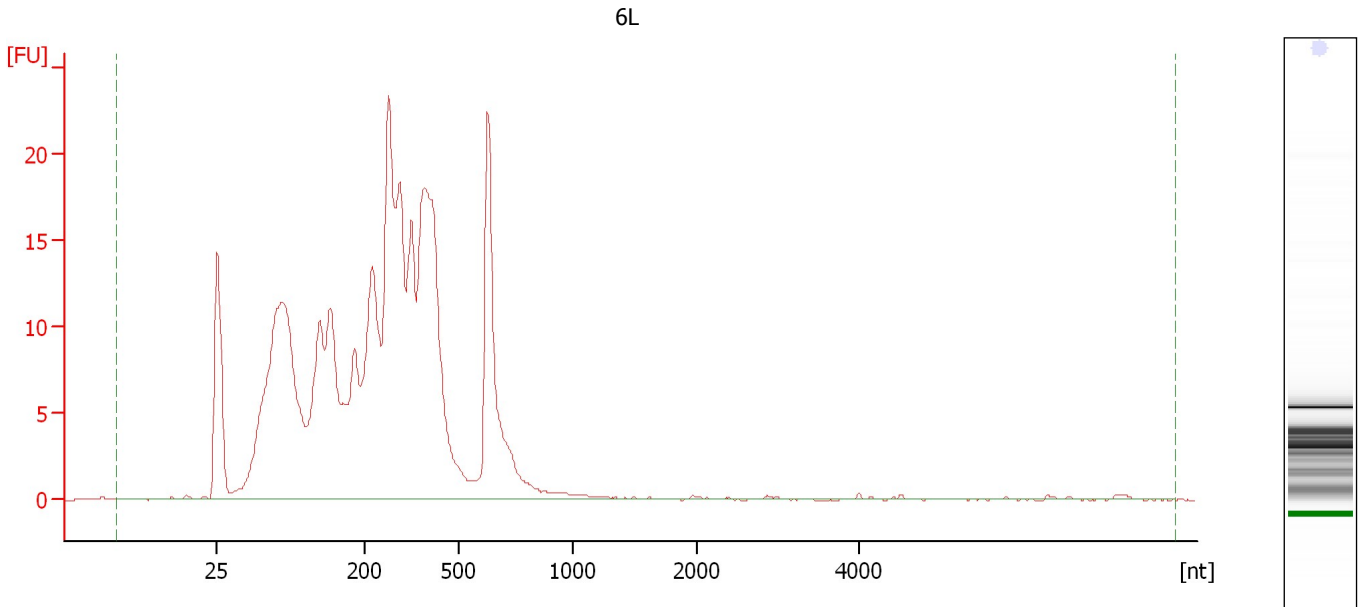
Overall Results for Ladder

RNA Area:	191.3	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



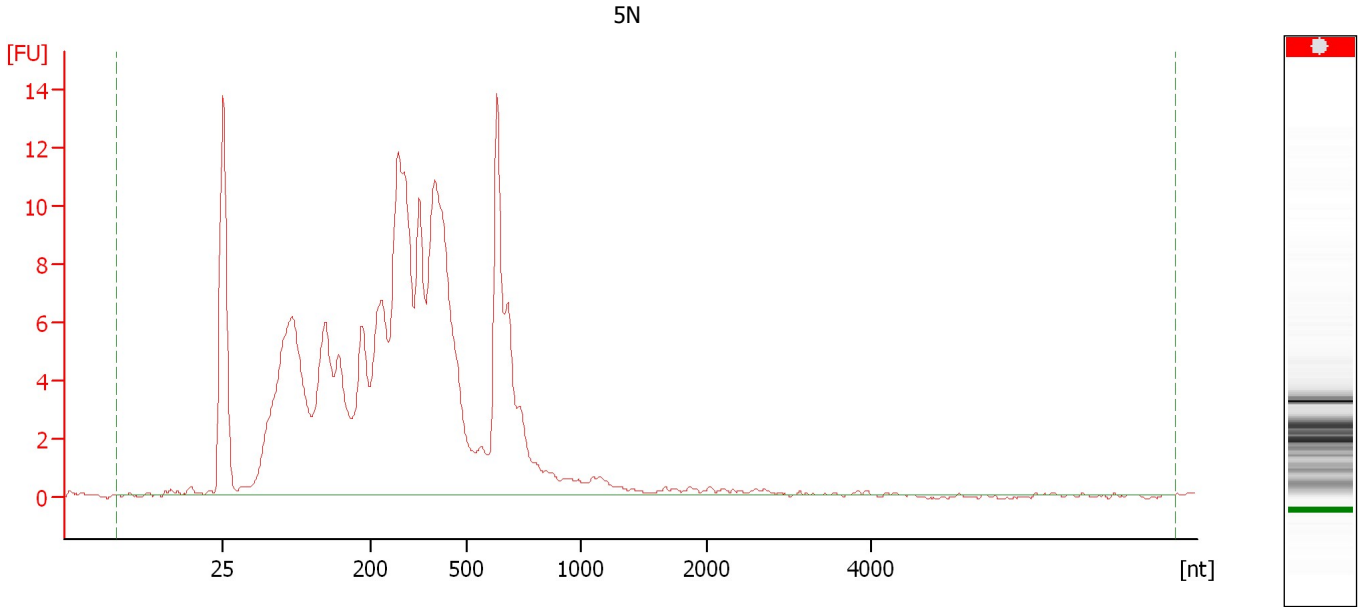
Overall Results for sample 1 : 6L

RNA Area:	354.7	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	278 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



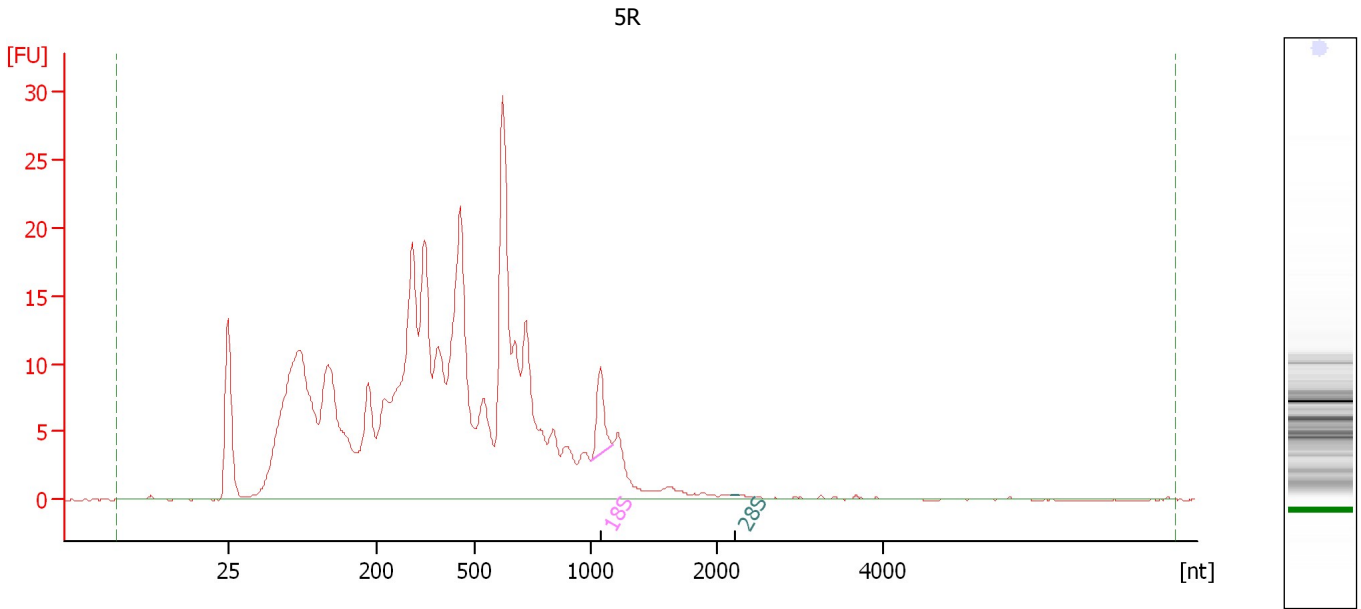
Overall Results for sample 2 : 5N

RNA Area:	219.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	172 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 5R

RNA Area:	401.1	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	315 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

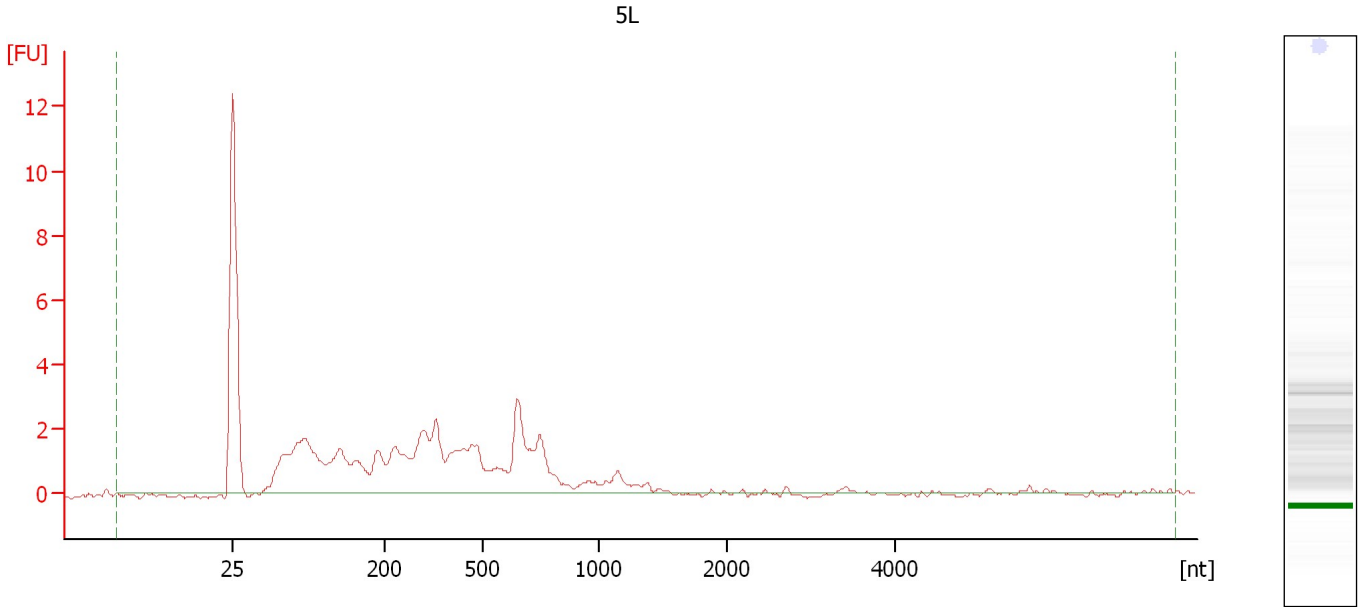
Fragment table for sample 3 : 5R

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,011	1,179	5.7	1.4
28S	2,155	2,259	0.0	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



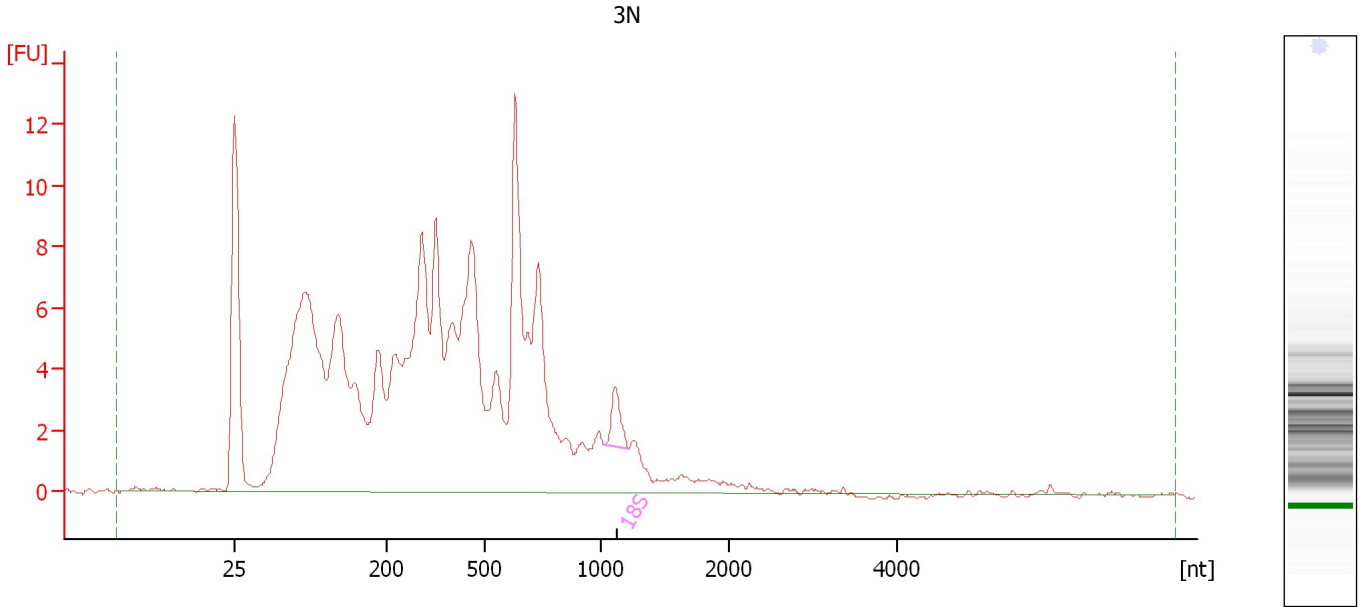
Overall Results for sample 4 : 5L

RNA Area:	53.4	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	42 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 3N

RNA Area:	216.4	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	170 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

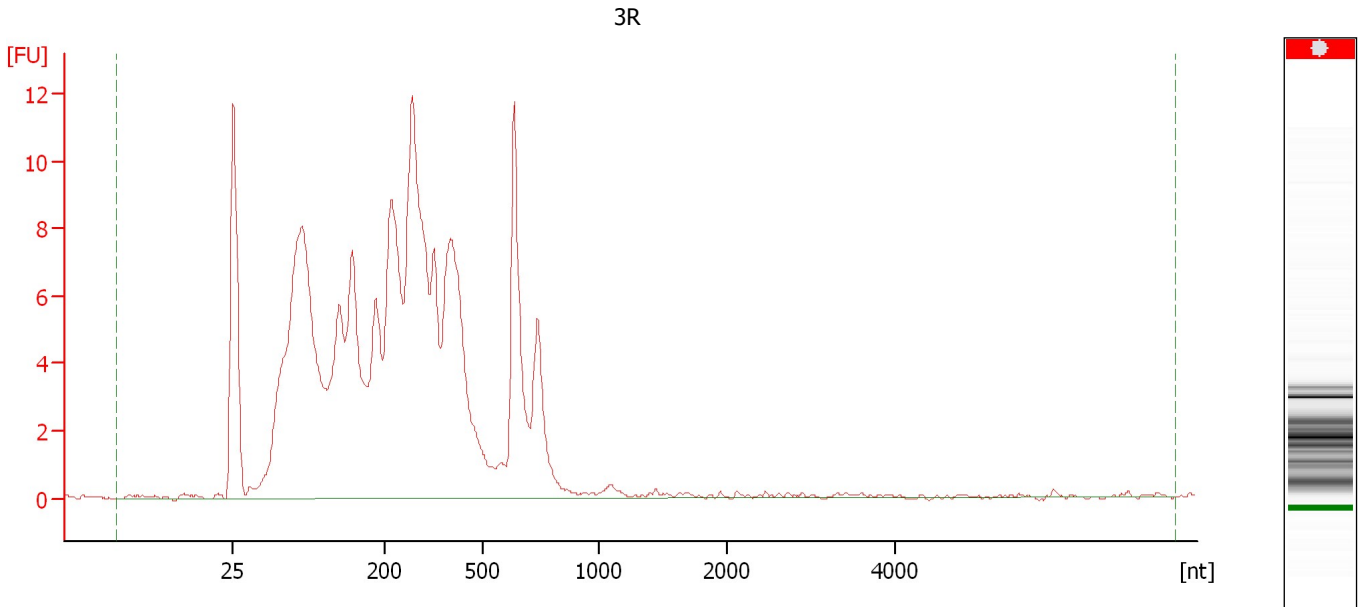
Fragment table for sample 5 : 3N

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,027	1,217	2.1	1.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



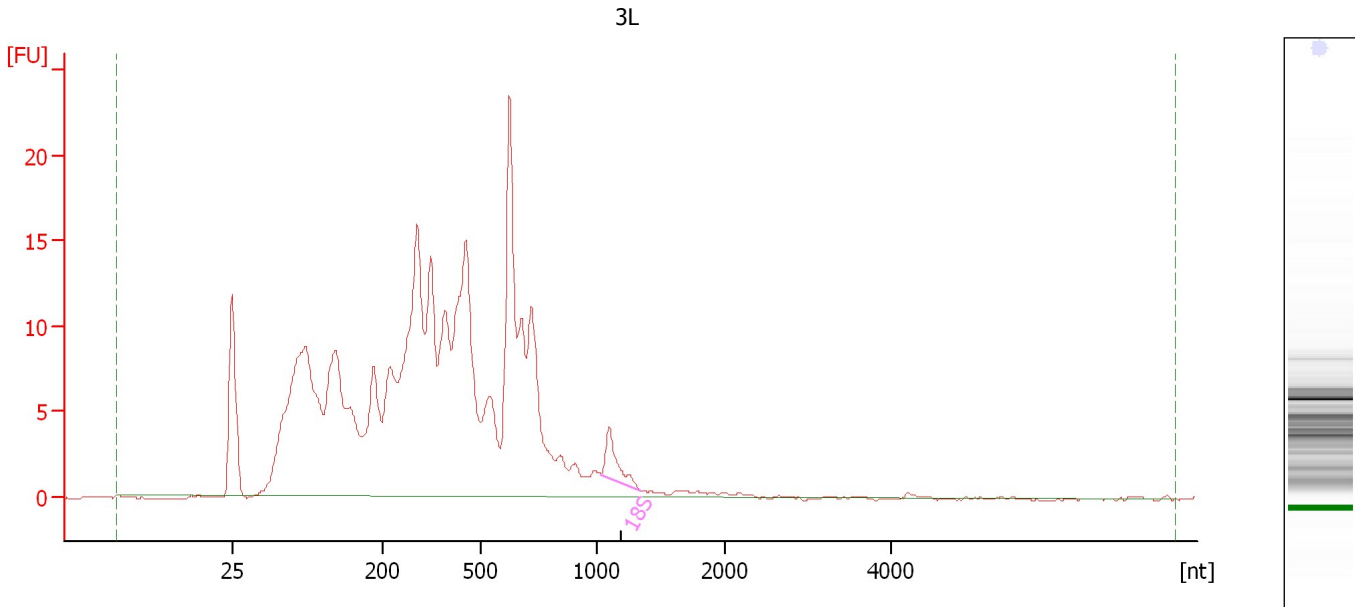
Overall Results for sample 6 : 3R

RNA Area:	209.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	164 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 3L

RNA Area:	325.8	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	255 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

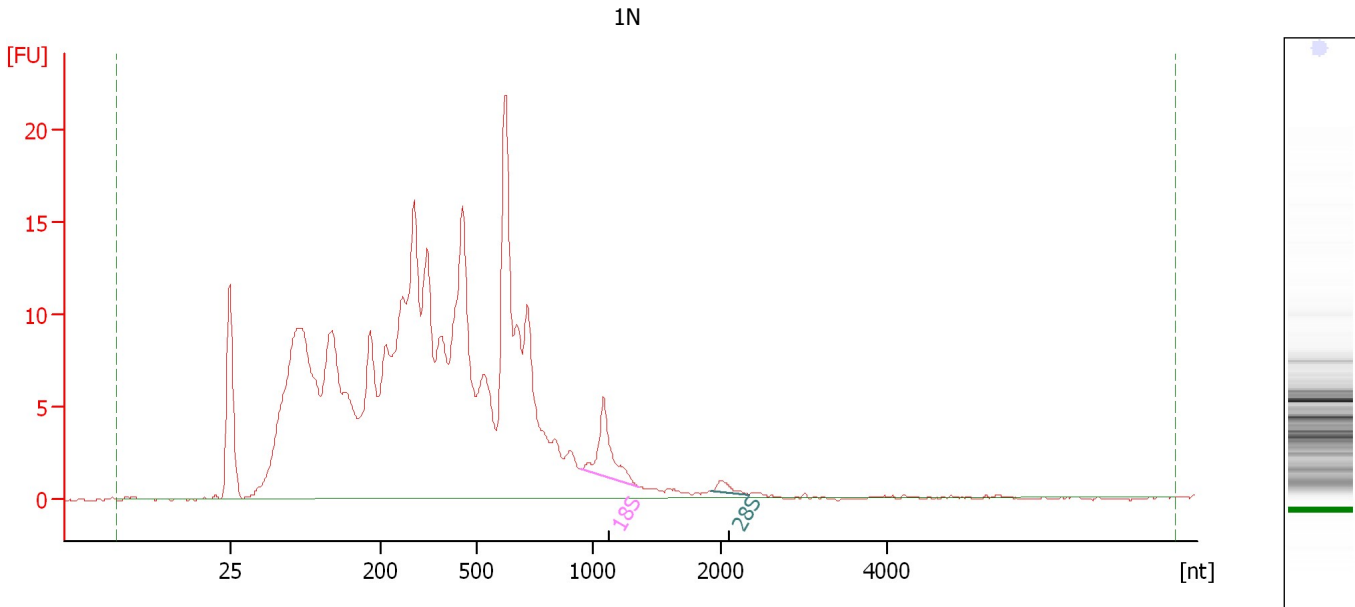
Fragment table for sample 7 : 3L

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,030	1,337	4.1	1.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1N

RNA Area:	350.4	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	275 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.1	Result Flagging Label:	RIN: 2.70

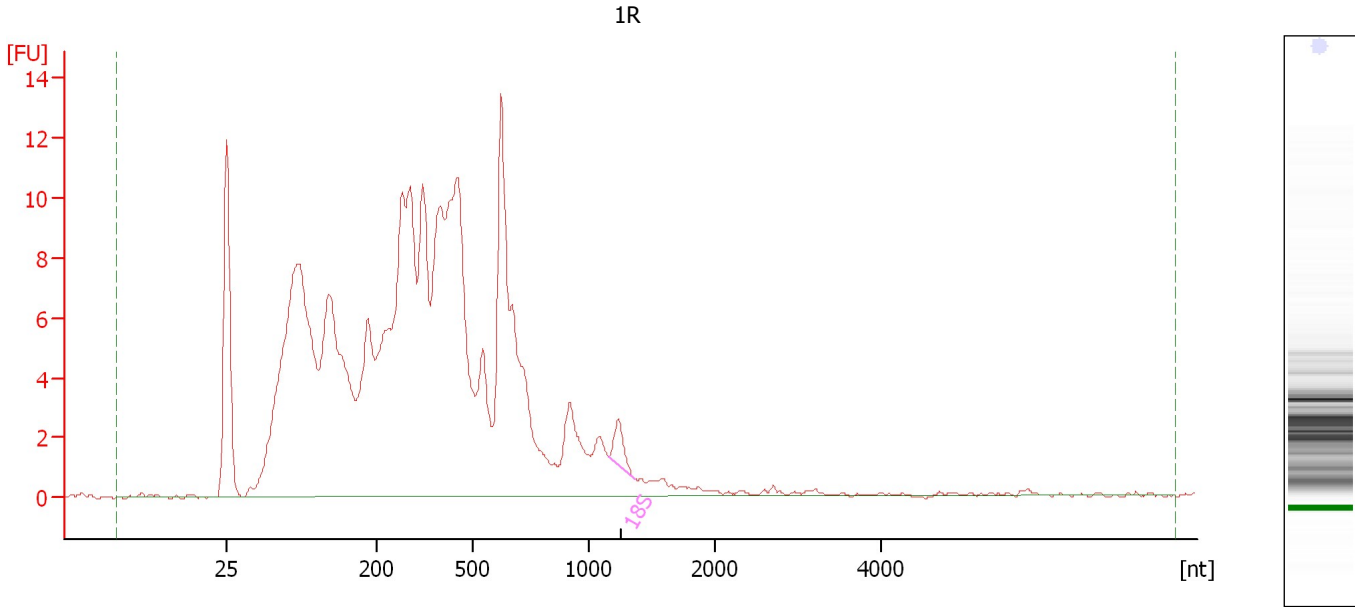
Fragment table for sample 8 : 1N

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	944	1,350	6.9	2.0
28S	1,917	2,337	0.9	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
 Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1R

RNA Area:	261.8	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	205 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

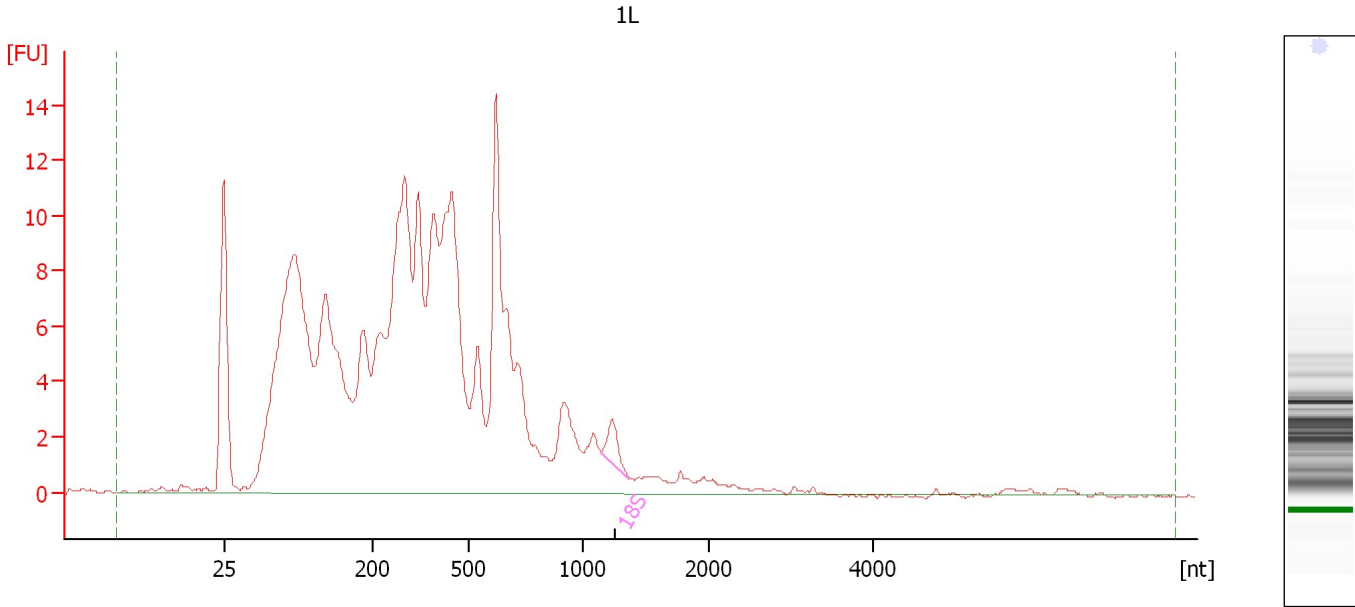
Fragment table for sample 9 : 1R

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,160	1,361	1.8	0.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
 Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1L

RNA Area:	280.7	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	220 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

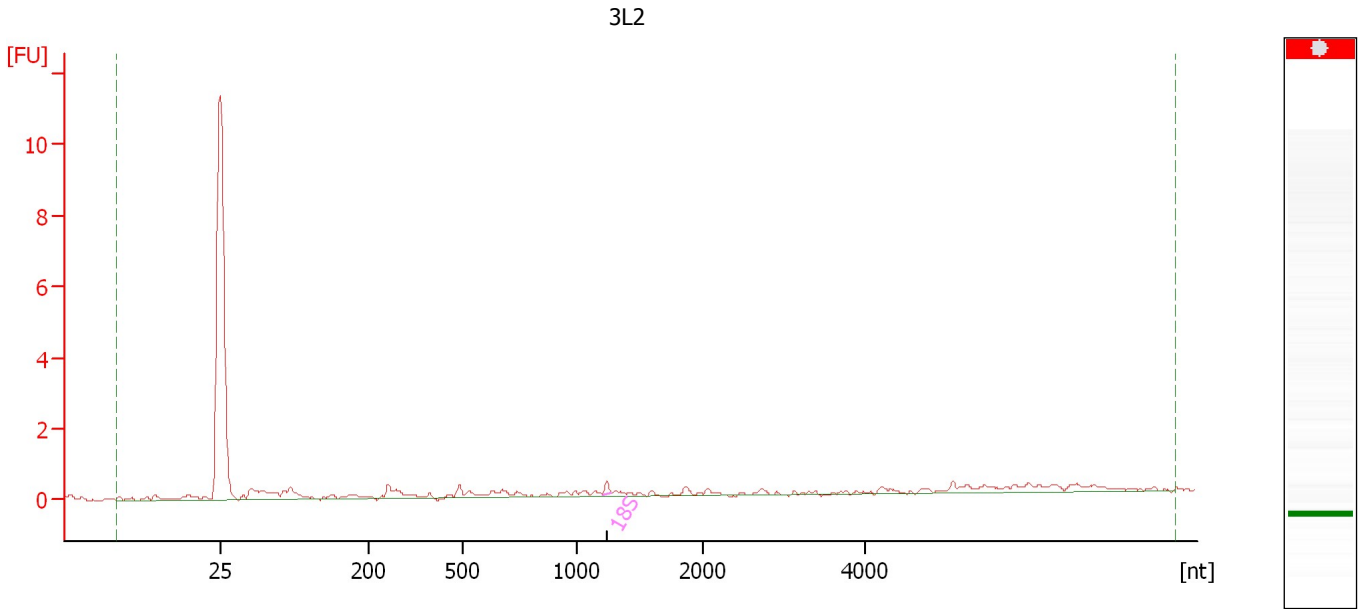
Fragment table for sample 10 : 1L

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,144	1,372	1.9	0.7

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
 Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 3L2

RNA Area:	8.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	7 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

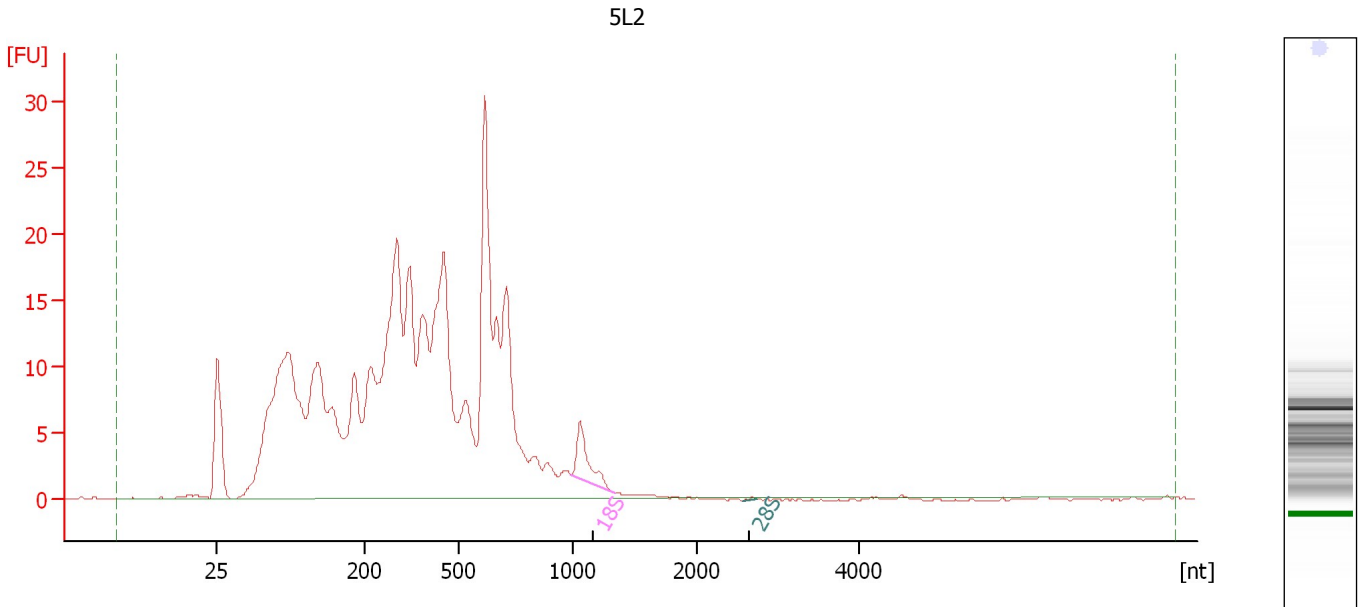
Fragment table for sample 11 : 3L2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,197	1,273	0.2	2.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 5L2

RNA Area: 417.4 RNA Integrity Number (RIN): 2.3 (B.02.08)
RNA Concentration: 327 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.0 Result Flagging Label: RIN: 2.30

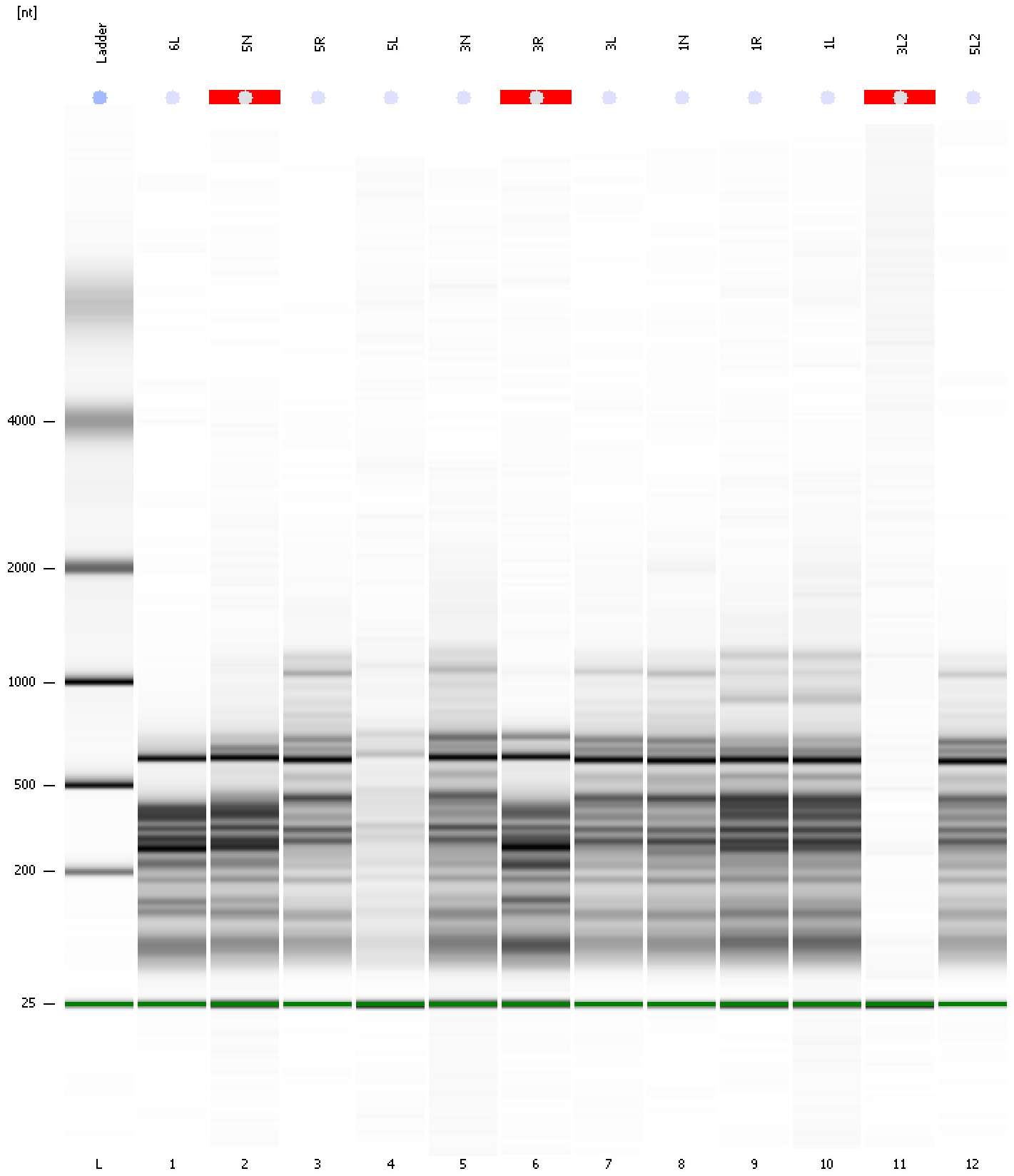
Fragment table for sample 12 : 5L2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	996	1,344	6.4	1.5
28S	2,572	2,731	0.1	0.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Gel Image

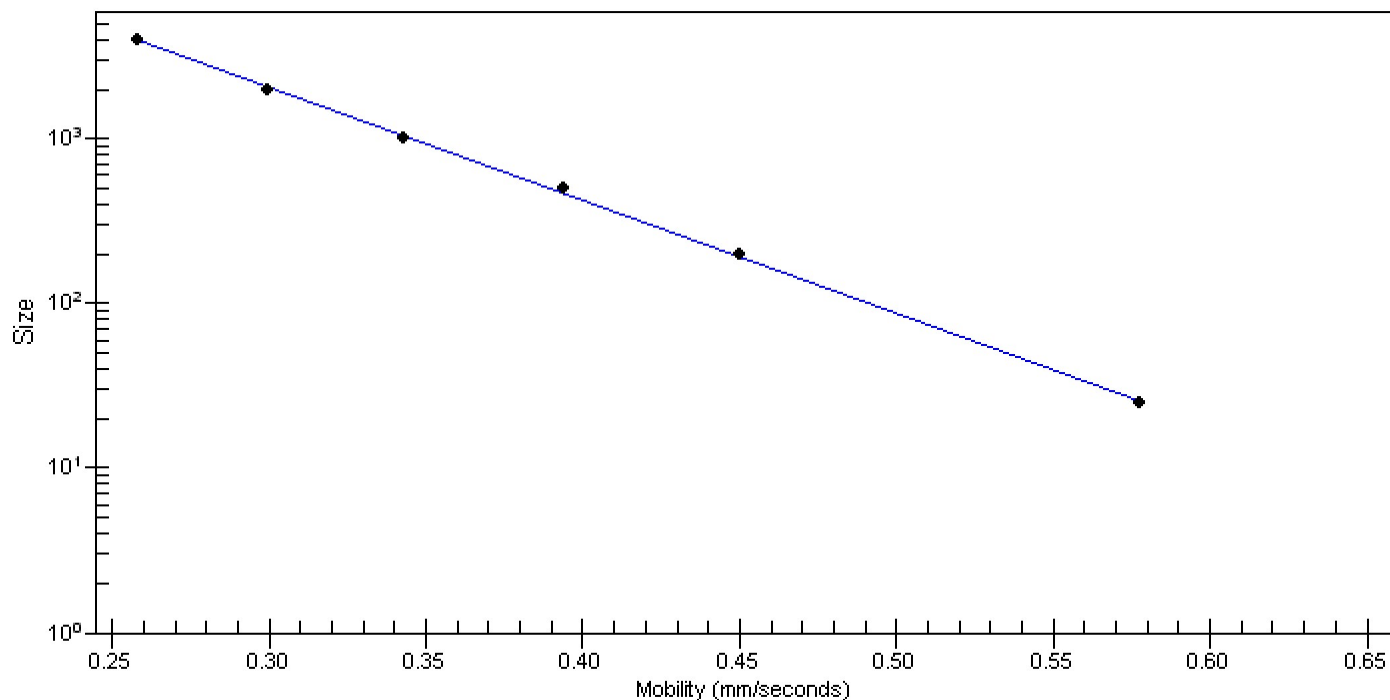


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
Modified: 6/27/2016 10:10:04 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad

Created: 6/27/2016 9:47:05 AM
 Modified: 6/27/2016 10:10:04 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		6/27/2016 10:10:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-06-27\2016-06-27_002.xad)		Instrument	Run		6/27/2016 9:47:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/27/2016 9:47:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/27/2016 9:47:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/27/2016 9:47:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/27/2016 9:47:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/27/2016 9:47:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/27/2016 9:47:05 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1