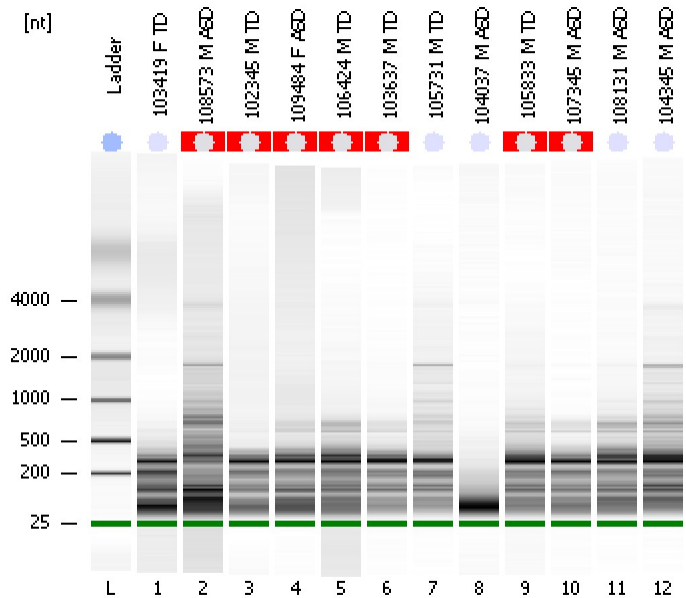


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electrophoresis File Run Summary



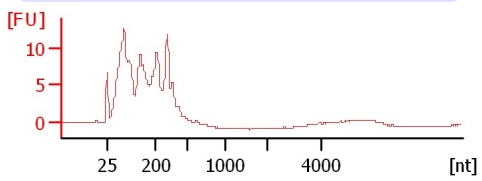
Instrument Information:
 Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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)

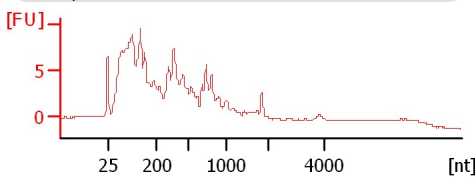
Chip Information:
 Chip Lot #:
 Reagent Kit Lot #:
 Chip Comments:

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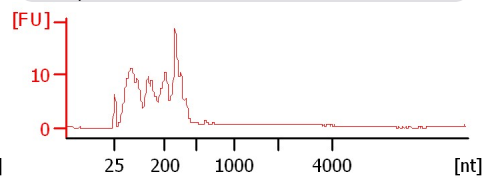
103419 F TD
RIN: 2.30



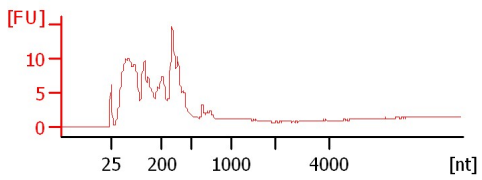
108573 M ASD
RIN N/A



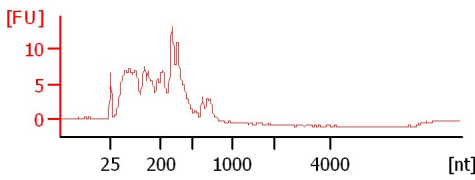
102345 M TD
RIN N/A



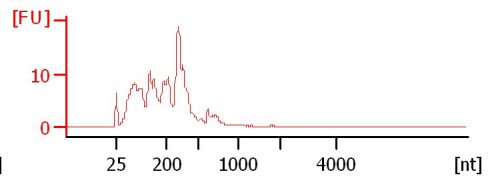
109484 F ASD
RIN N/A



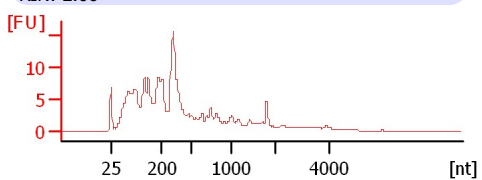
106424 M TD
RIN N/A



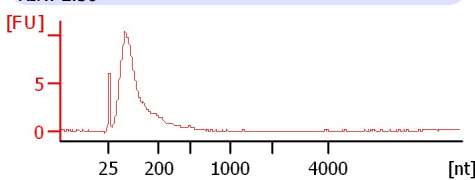
103637 M TD
RIN N/A



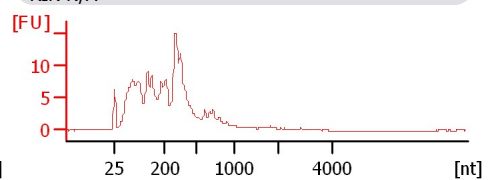
105731 M TD
RIN: 2.60



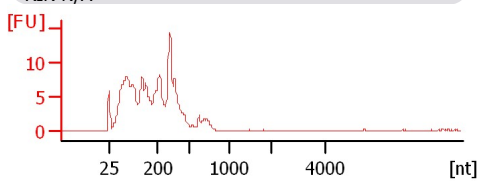
104037 M ASD
RIN: 2.50



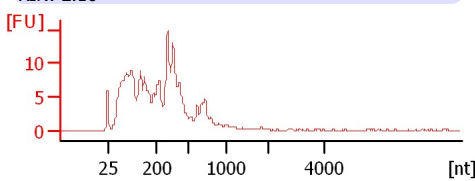
105833 M TD
RIN N/A



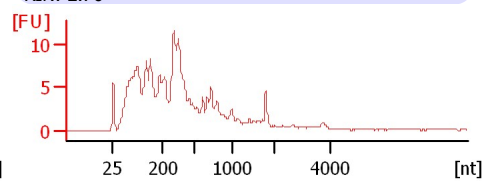
107345 M ASD
RIN N/A



108131 M ASD
RIN: 2.10



104345 M ASD
RIN: 2.70



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
 Modified: 11/1/2016 3:45:06 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
103419 F TD		✓	RIN: 2.30	
108573 M ASD		✓	RIN N/A	
102345 M TD		✓	RIN N/A	
109484 F ASD		✓	RIN N/A	
106424 M TD		✓	RIN N/A	
103637 M TD		✓	RIN N/A	
105731 M TD		✓	RIN: 2.60	
104037 M ASD		✓	RIN: 2.50	
105833 M TD		✓	RIN N/A	
107345 M ASD		✓	RIN N/A	
108131 M ASD		✓	RIN: 2.10	
104345 M ASD		✓	RIN: 2.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 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

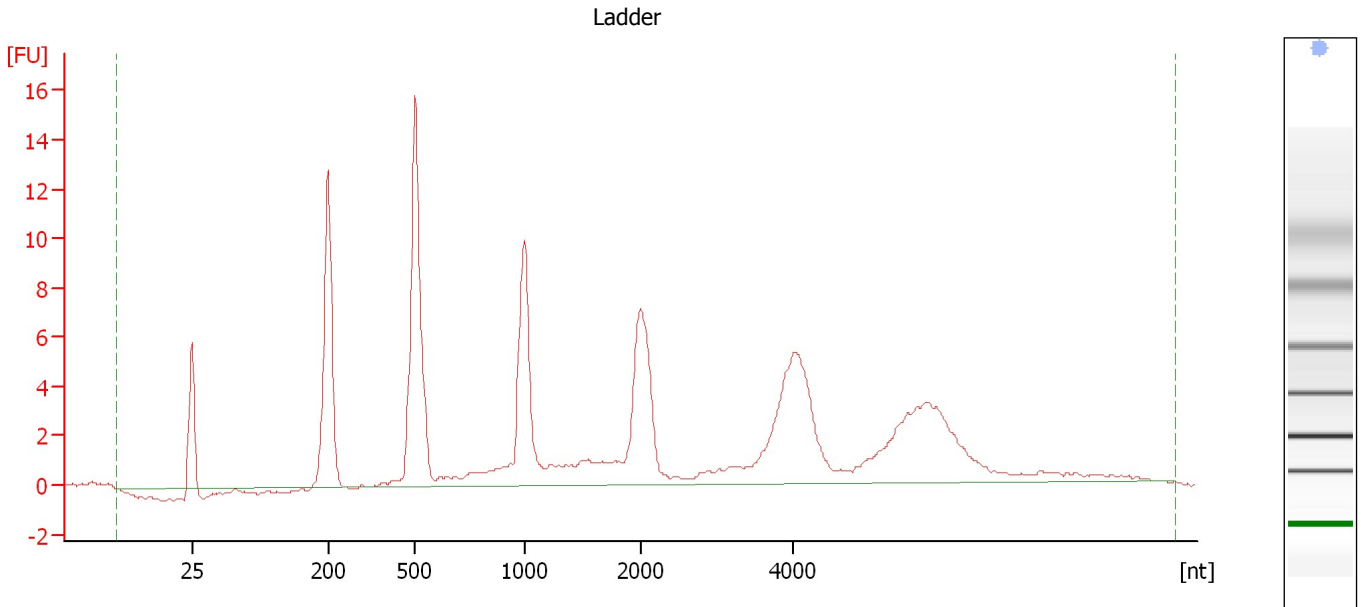
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary



Overall Results for Ladder

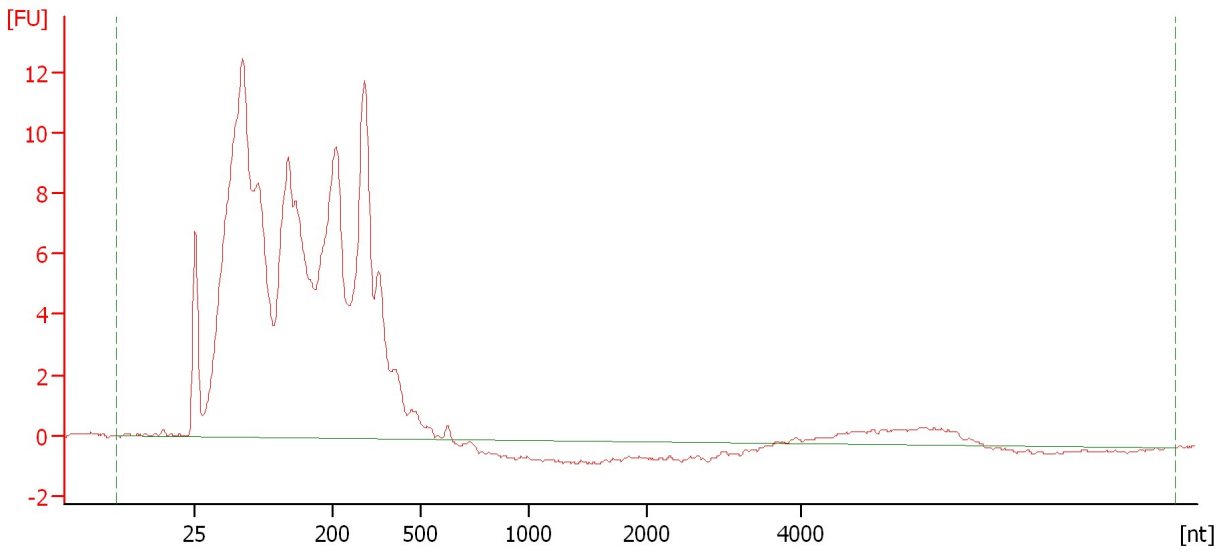
RNA Area:	137.9	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...

103419 F TD



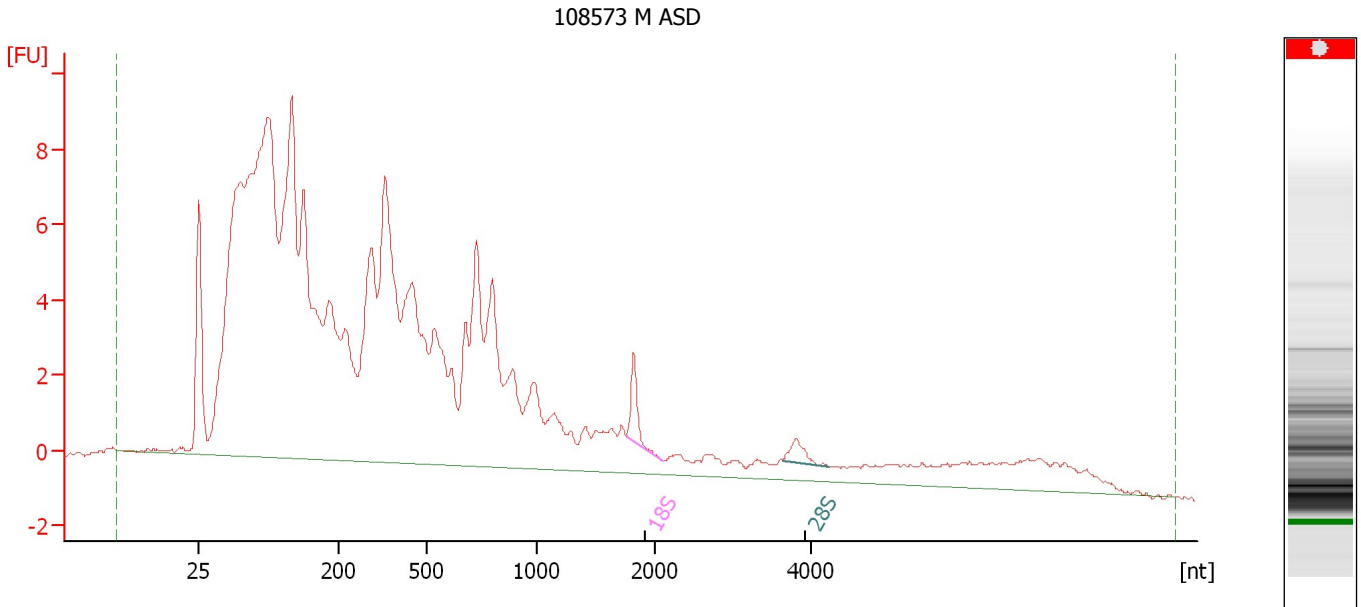
Overall Results for sample 1 : 103419 F TD

RNA Area:	222.8	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	242 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
 Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 108573 M ASD

RNA Area:	264.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	288 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN N/A

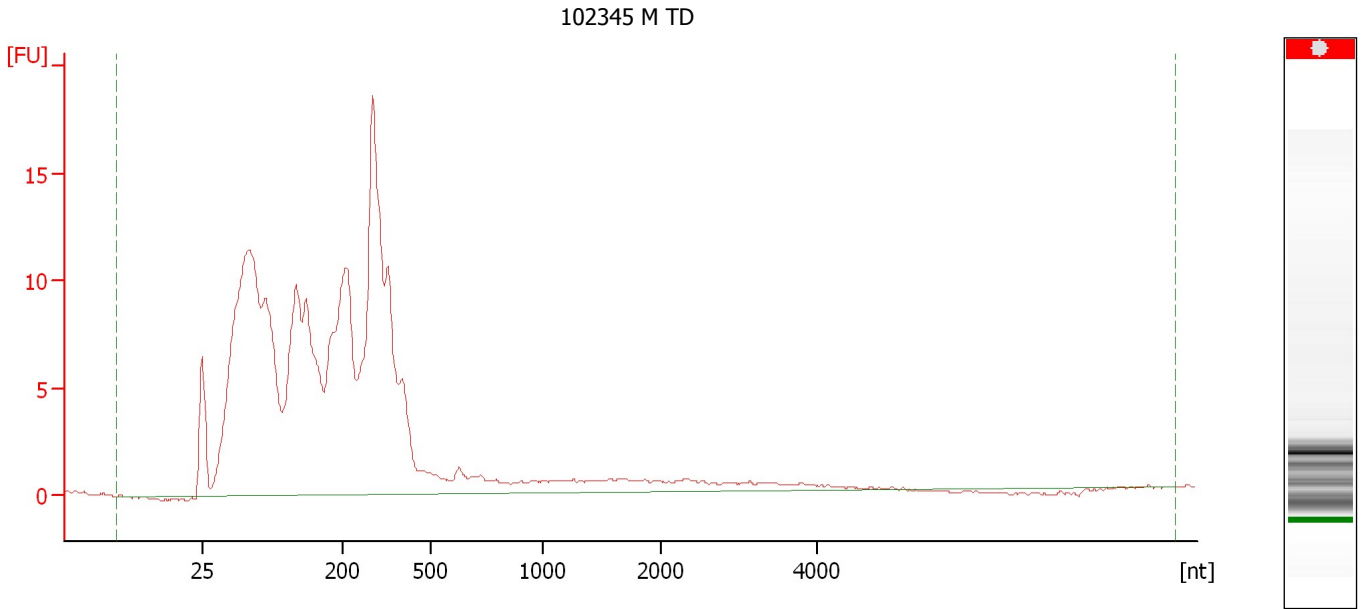
Fragment table for sample 2 : 108573 M ASD

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,761	2,091	1.9	0.7
28S	3,647	4,240	1.0	0.4


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 102345 M TD

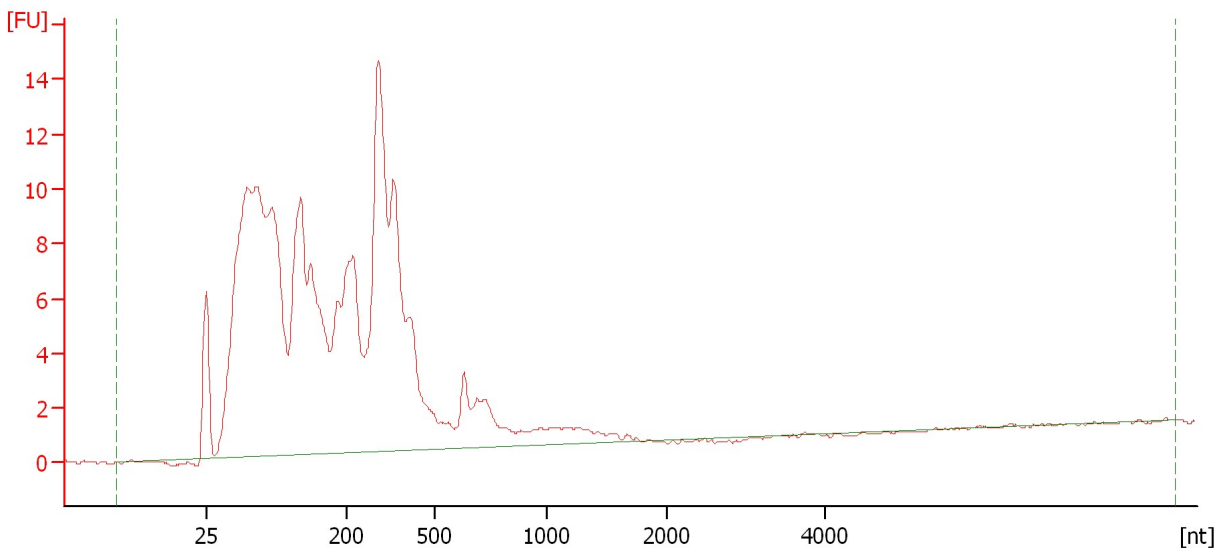
RNA Area:	275.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	299 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad


Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...

109484 F ASD



Overall Results for sample 4 : 109484 F ASD

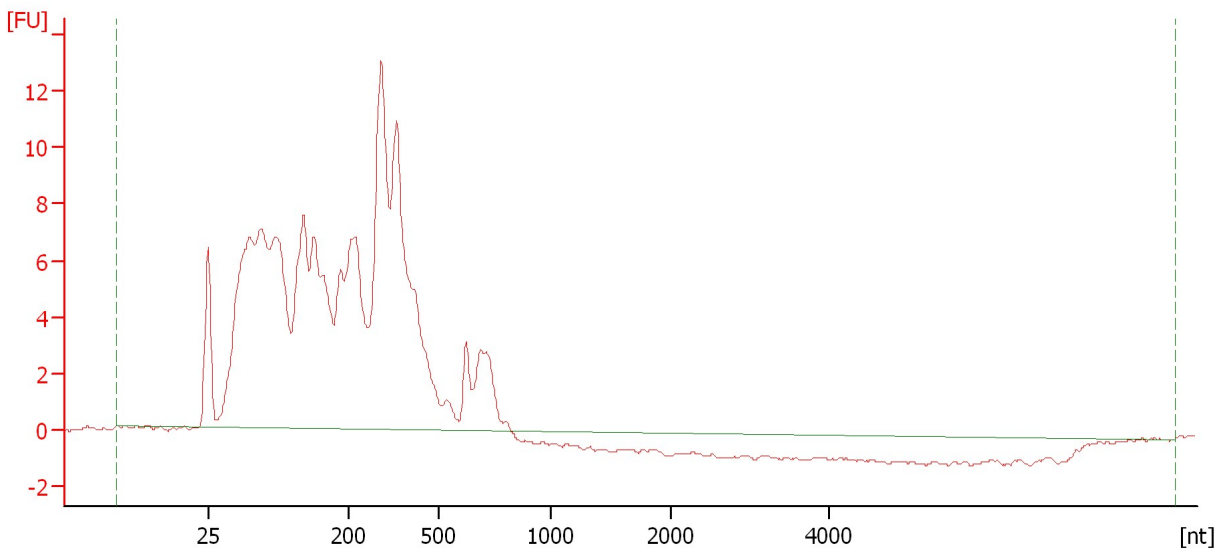
RNA Area:	241.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	263 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad


Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...

106424 M TD



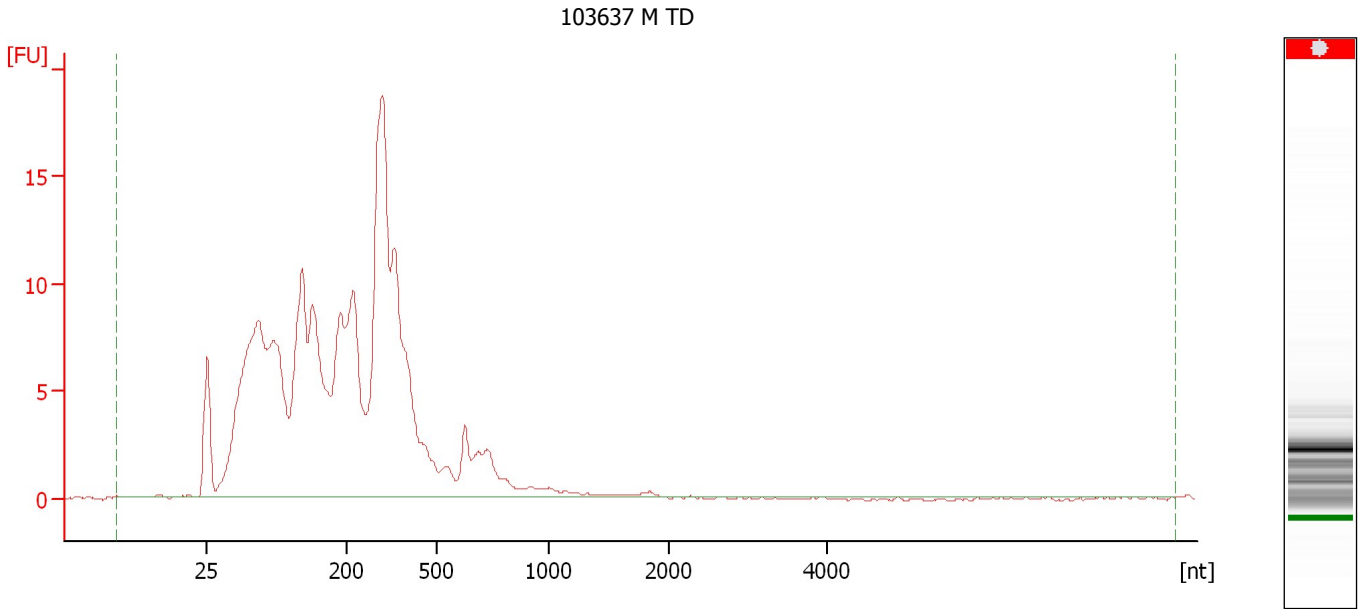
Overall Results for sample 5 : 106424 M TD

RNA Area:	208.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	226 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\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...



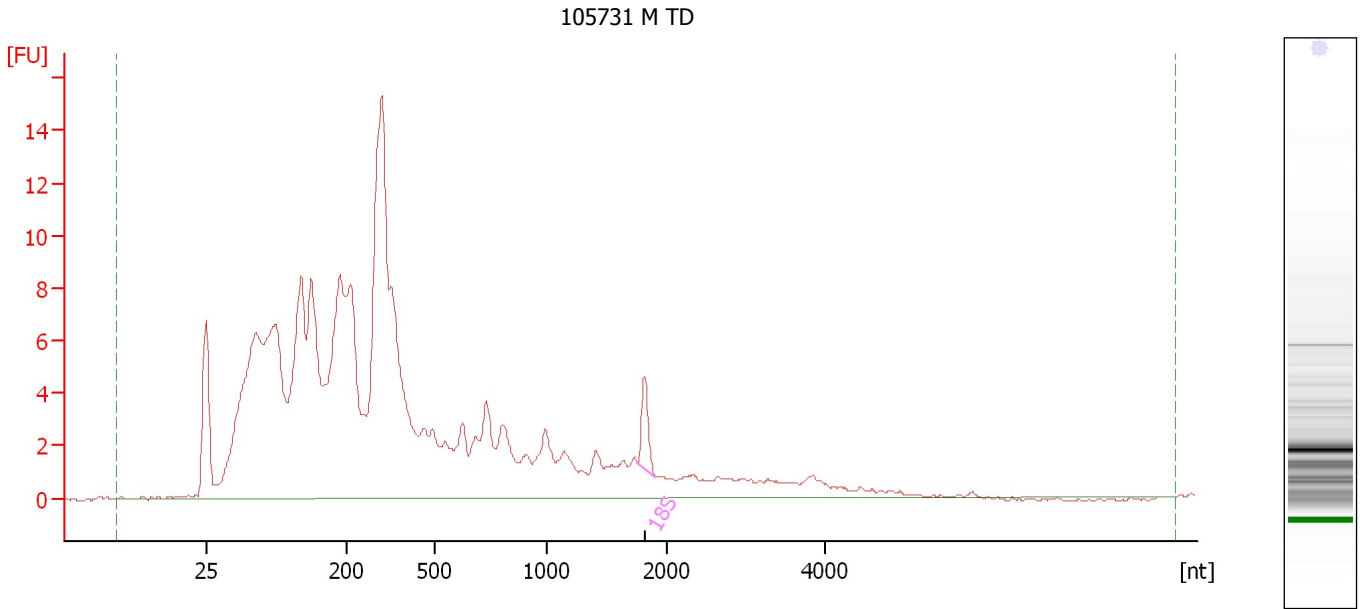
Overall Results for sample 6 : 103637 M TD

RNA Area:	249.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	271 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\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 105731 M TD

RNA Area:	249.6	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	271 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

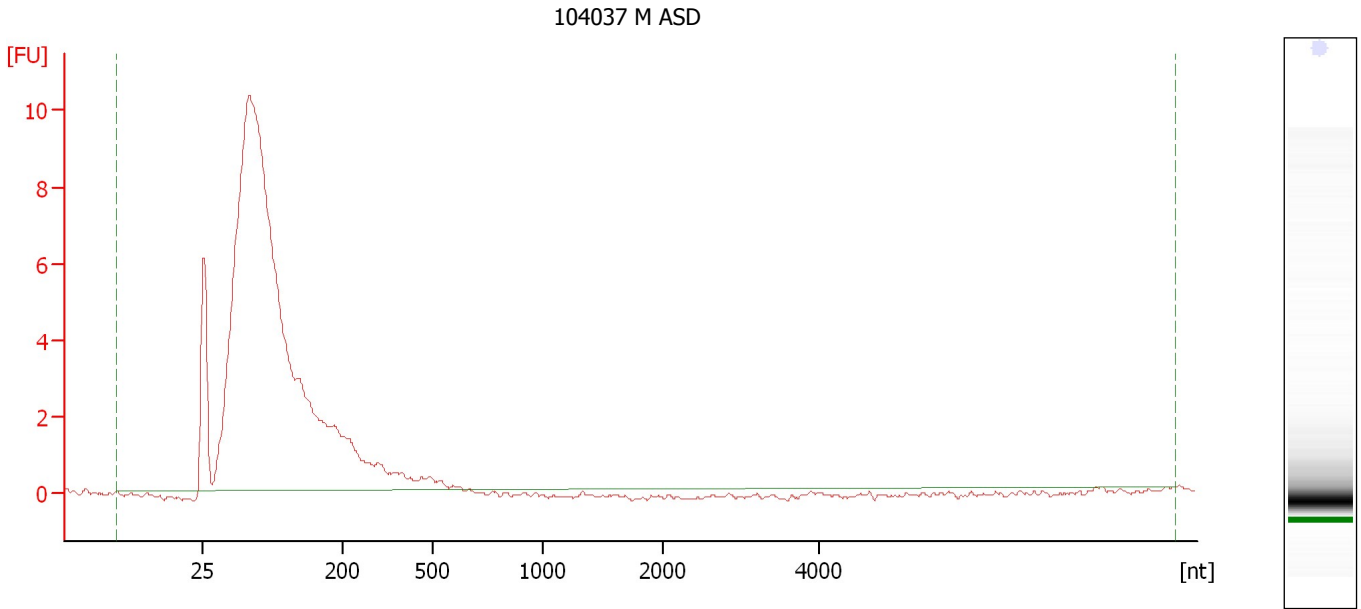
Fragment table for sample 7 : 105731 M TD

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,751	1,903	2.6	1.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 104037 M ASD

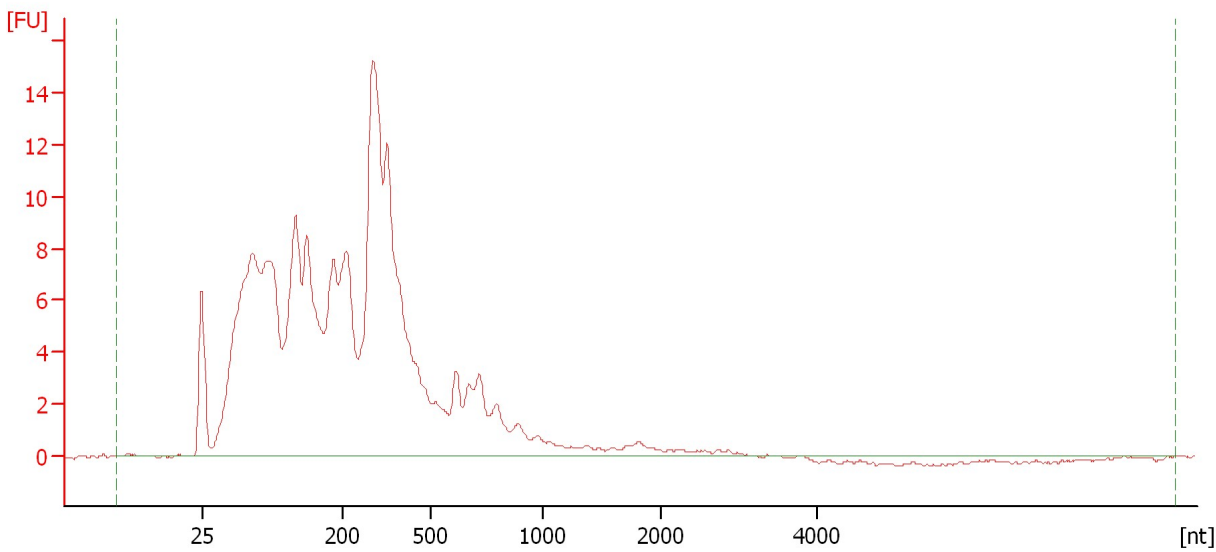
RNA Area:	110.2	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	120 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad


Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...

105833 M TD



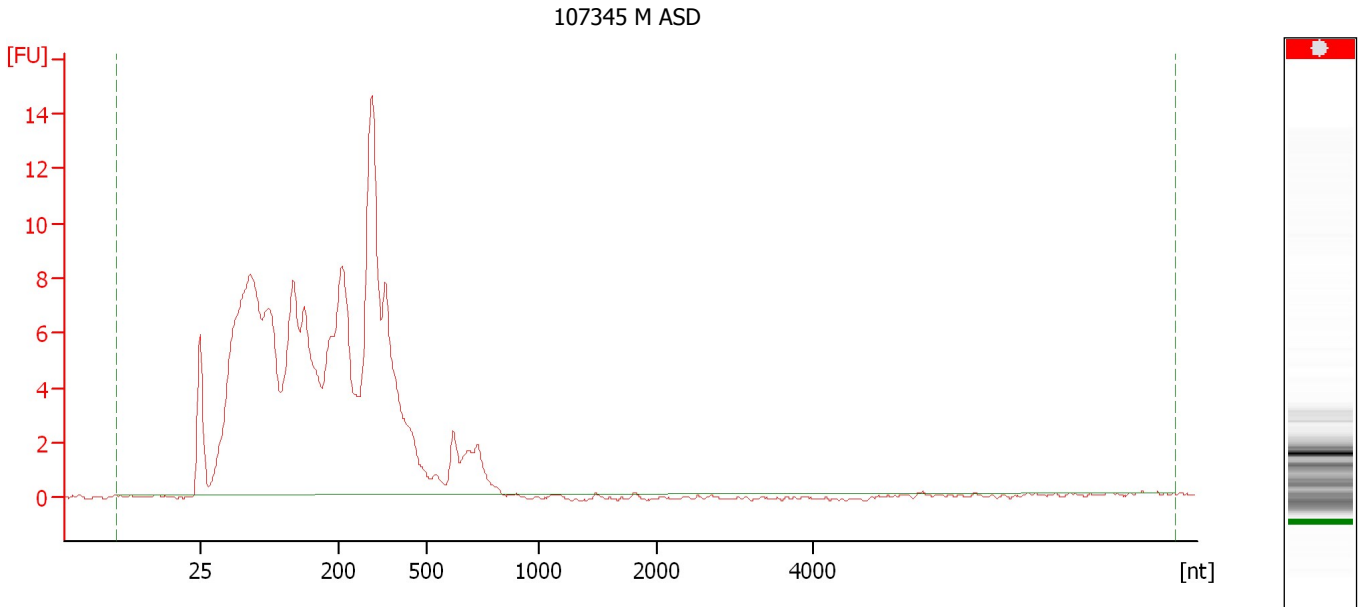
Overall Results for sample 9 : 105833 M TD

RNA Area:	251.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	274 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\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...



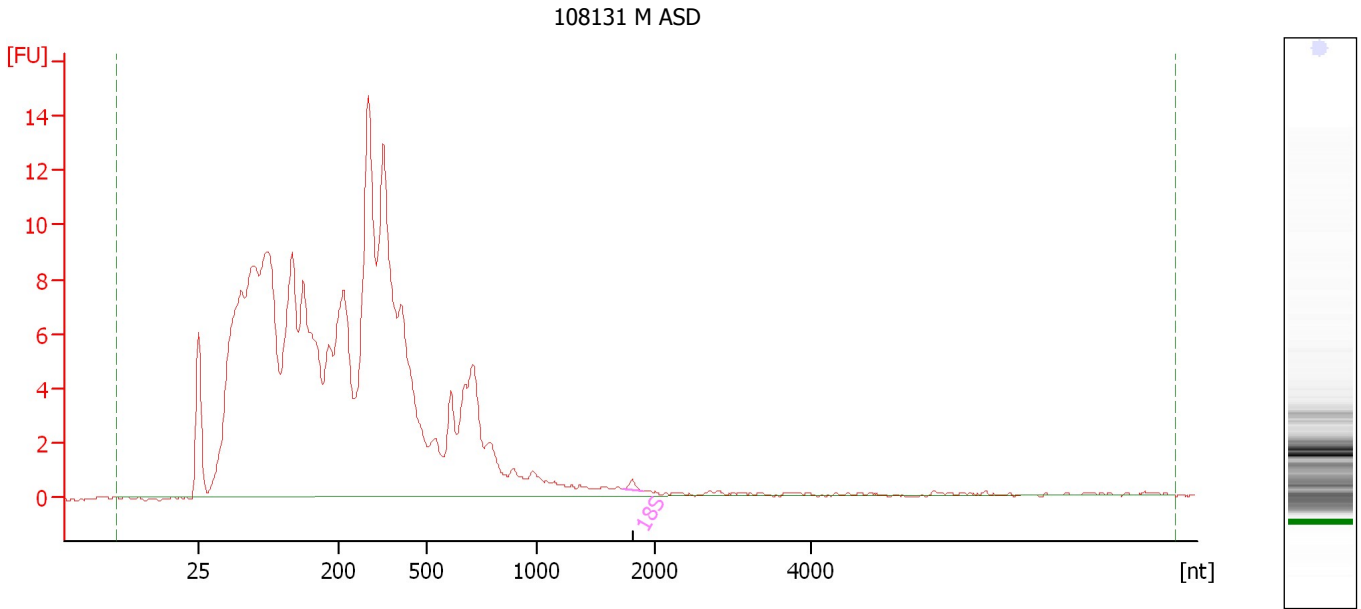
Overall Results for sample 10 : 107345 M ASD

RNA Area:	203.7	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	222 ng/ μ l	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\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 108131 M ASD

RNA Area:	261.5	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	284 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

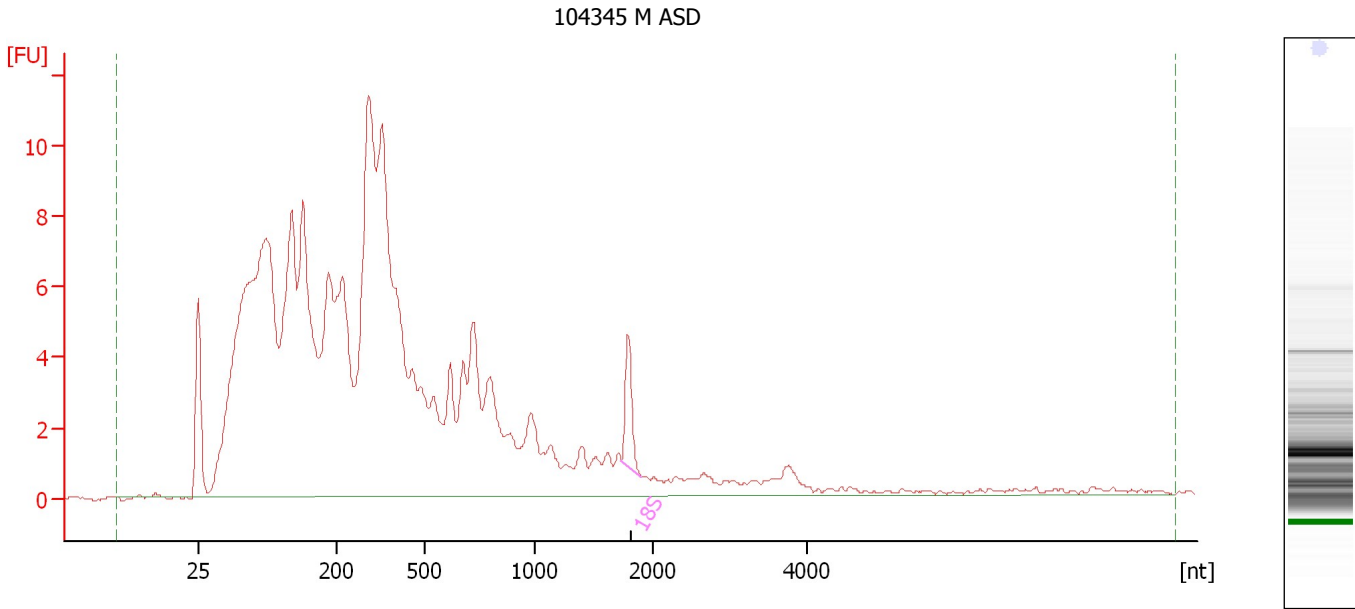
Fragment table for sample 11 : 108131 M ASD

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,734	1,897	0.3	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 104345 M ASD

RNA Area:	252.7	RNA Integrity Number (RIN):	2.7 (B.02.08)
RNA Concentration:	275 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.70

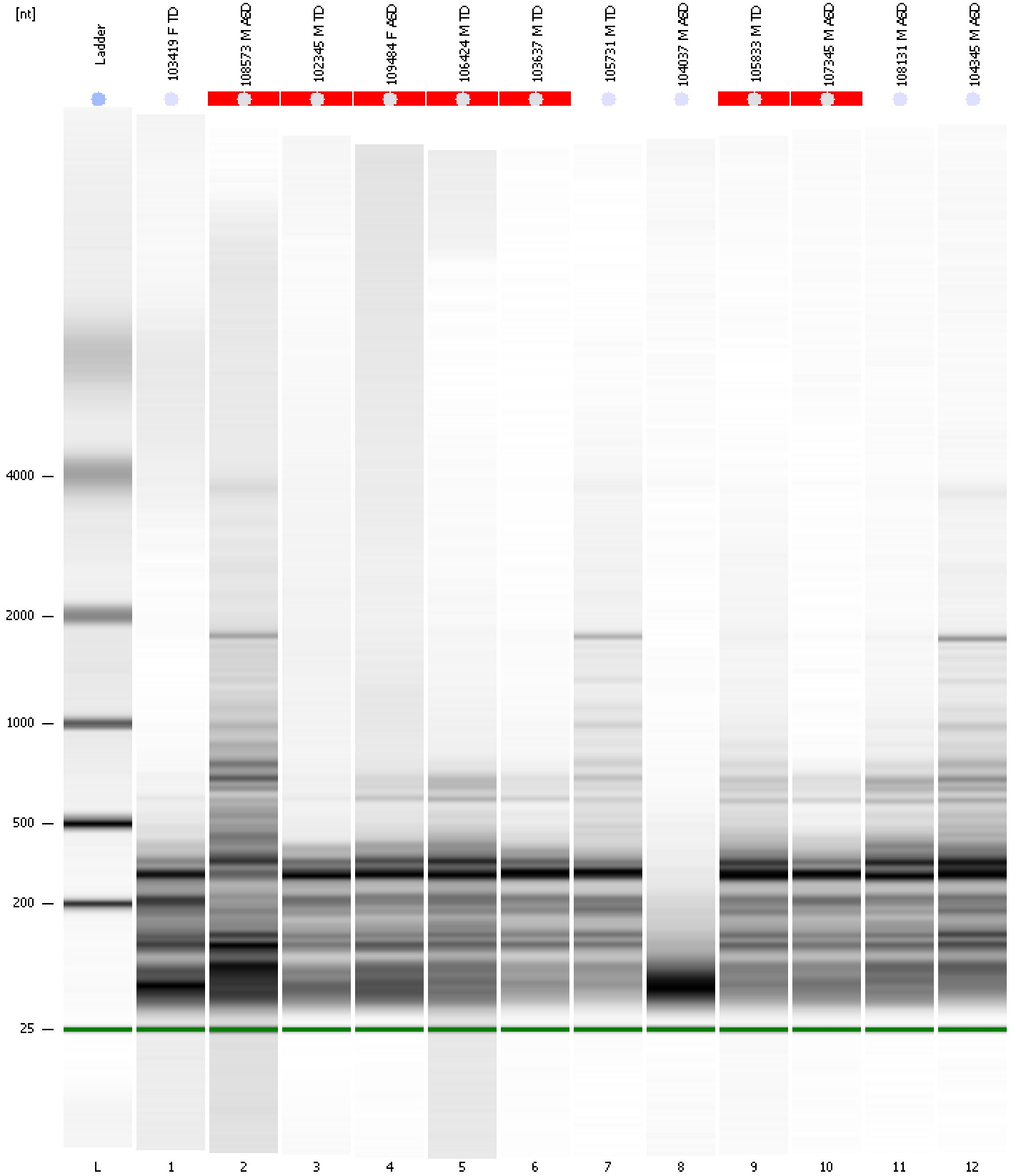
Fragment table for sample 12 : 104345 M ASD

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,733	1,905	2.8	1.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
Modified: 11/1/2016 3:45:06 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-01\2016-11-01_002.xad

Created: 11/1/2016 3:21:19 PM
 Modified: 11/1/2016 3:45:06 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		11/1/2016 3:45:06 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\2016-11-01\2016-11-01_002.xad)		Instrument	Run		11/1/2016 3:21:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/1/2016 3:21:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/1/2016 3:21:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/1/2016 3:21:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/1/2016 3:21:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/1/2016 3:21:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/1/2016 3:21:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1