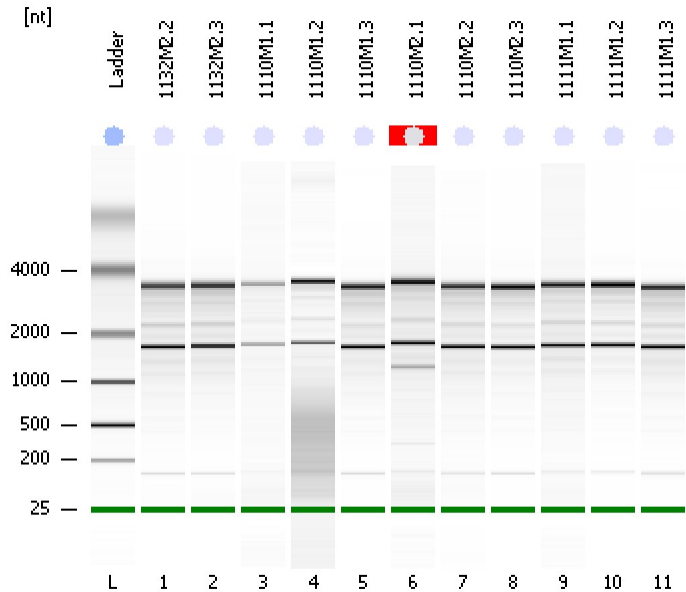


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

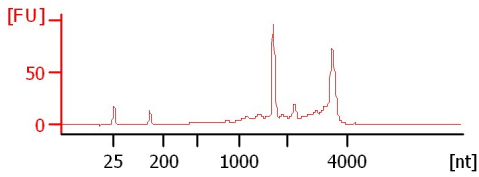
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

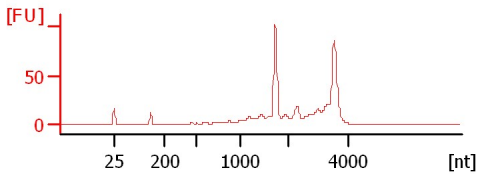
Chip Information:

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

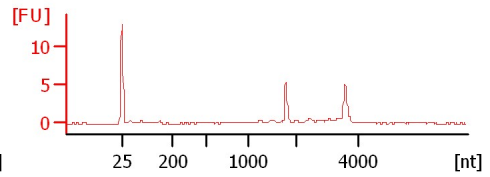
1132M2.2
RIN: 7.80



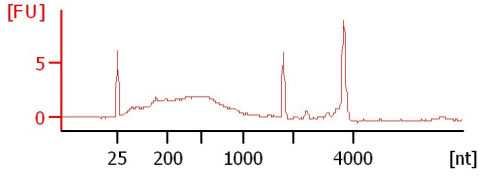
1132M2.3
RIN: 8



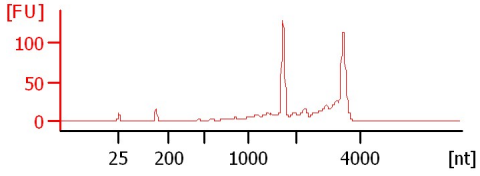
1110M1.1
RIN: 8



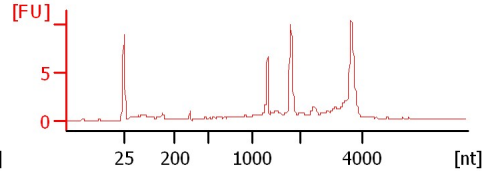
1110M1.2
RIN: 6.60



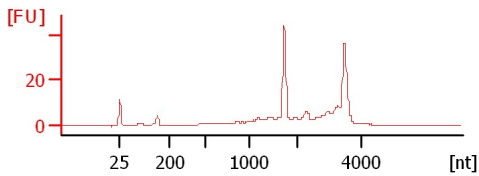
1110M1.3
RIN: 8



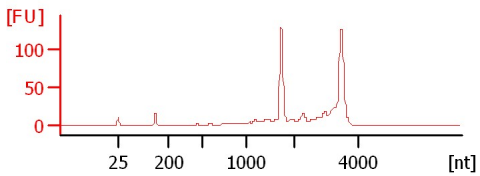
1110M2.1
RIN N/A



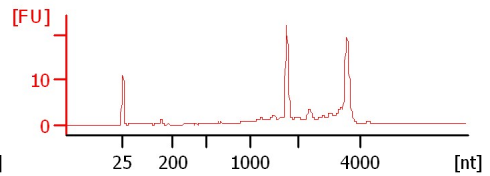
1110M2.2
RIN: 7.80



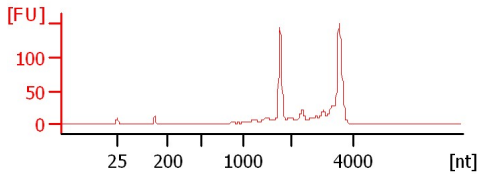
1110M2.3
RIN: 8.70



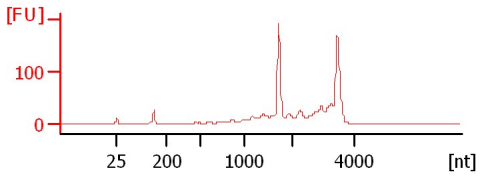
1111M1.1
RIN: 8.30



1111M1.2
RIN: 9



1111M1.3
RIN: 7.70



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
 Modified: 11/12/2015 2:29:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1132M2.2		✓	RIN: 7.80	
1132M2.3		✓	RIN:8	
1110M1.1		✓	RIN:8	
1110M1.2		✓	RIN: 6.60	
1110M1.3		✓	RIN:8	
1110M2.1		✓	RIN N/A	
1110M2.2		✓	RIN: 7.80	
1110M2.3		✓	RIN: 8.70	
1111M1.1		✓	RIN: 8.30	
1111M1.2		✓	RIN:9	
1111M1.3		✓	RIN: 7.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

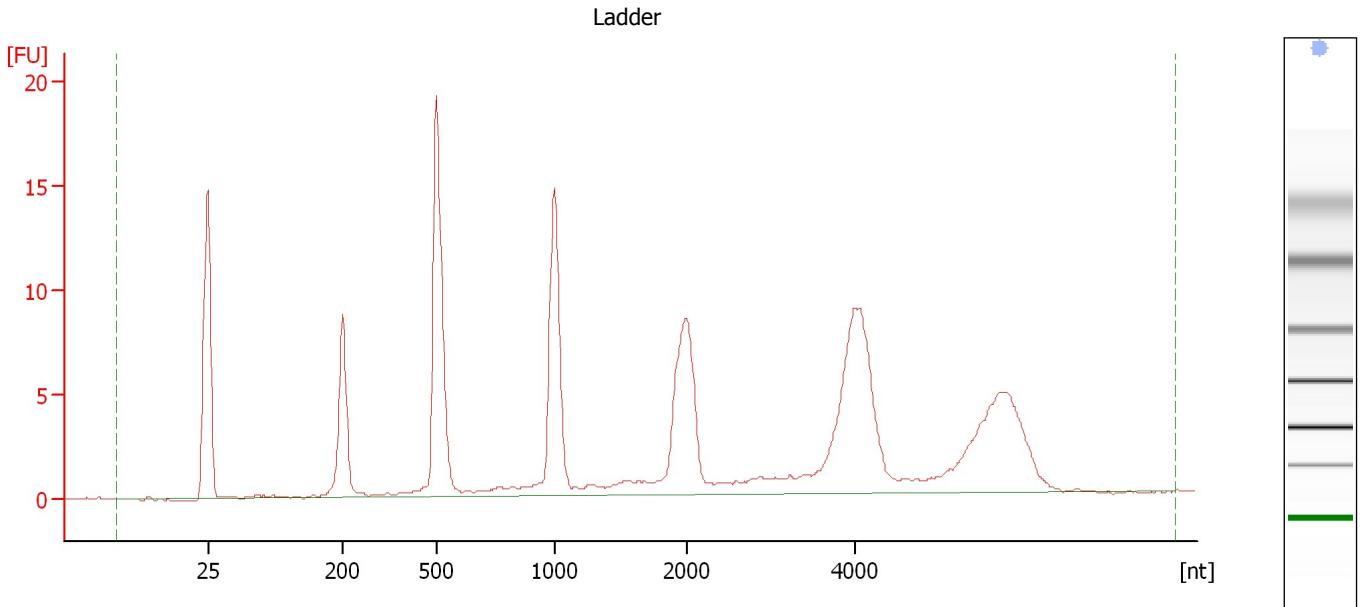
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary



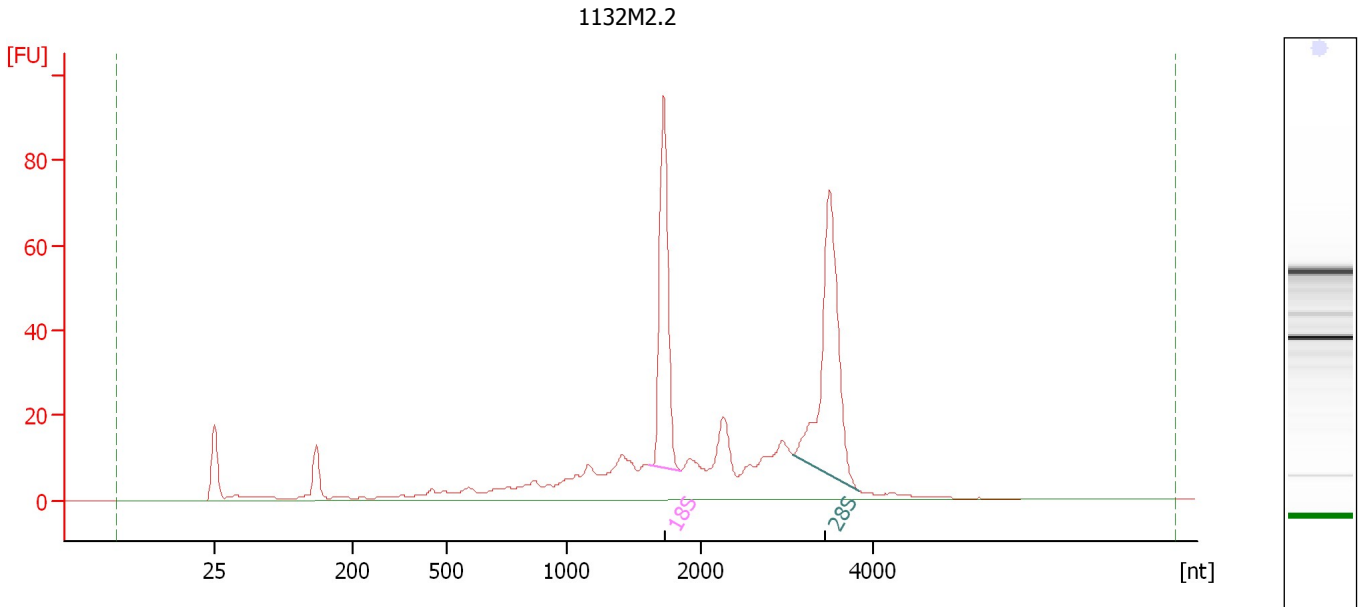
Overall Results for Ladder

RNA Area:	151.4	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
 Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1132M2.2

RNA Area:	526.0	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	3,475 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.80

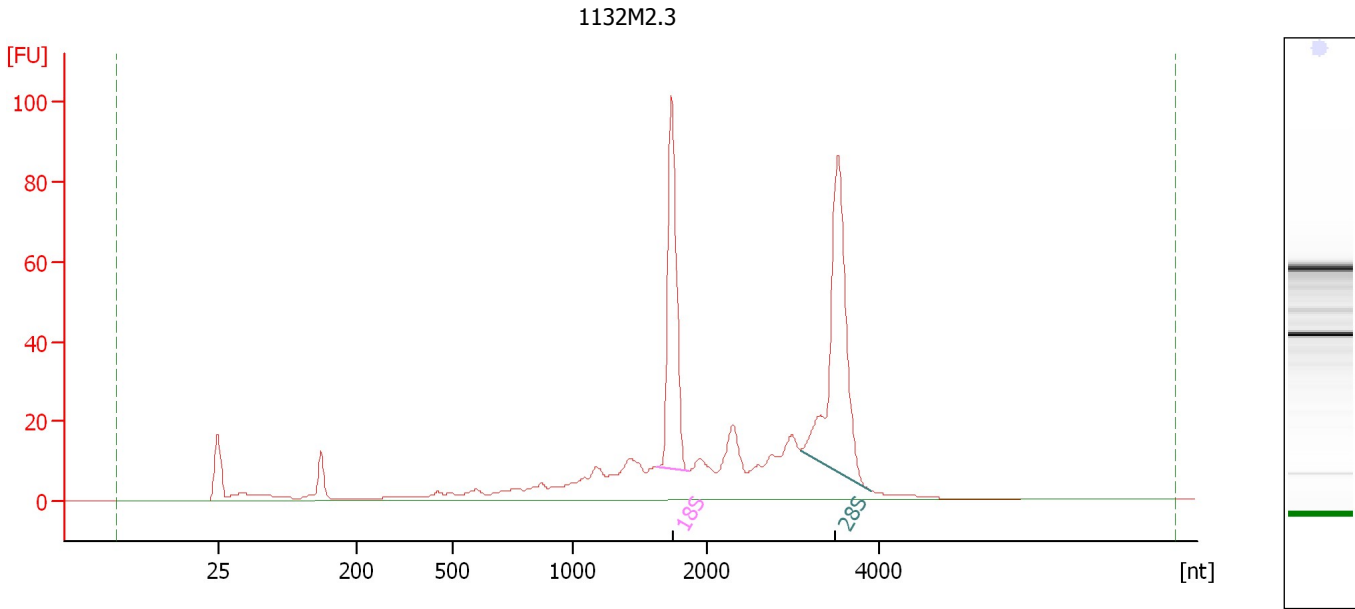
Fragment table for sample 1 : 1132M2.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,844	87.3	16.6
28S	3,065	3,838	113.5	21.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1132M2.3

RNA Area:	566.3	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	3,741 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN:8

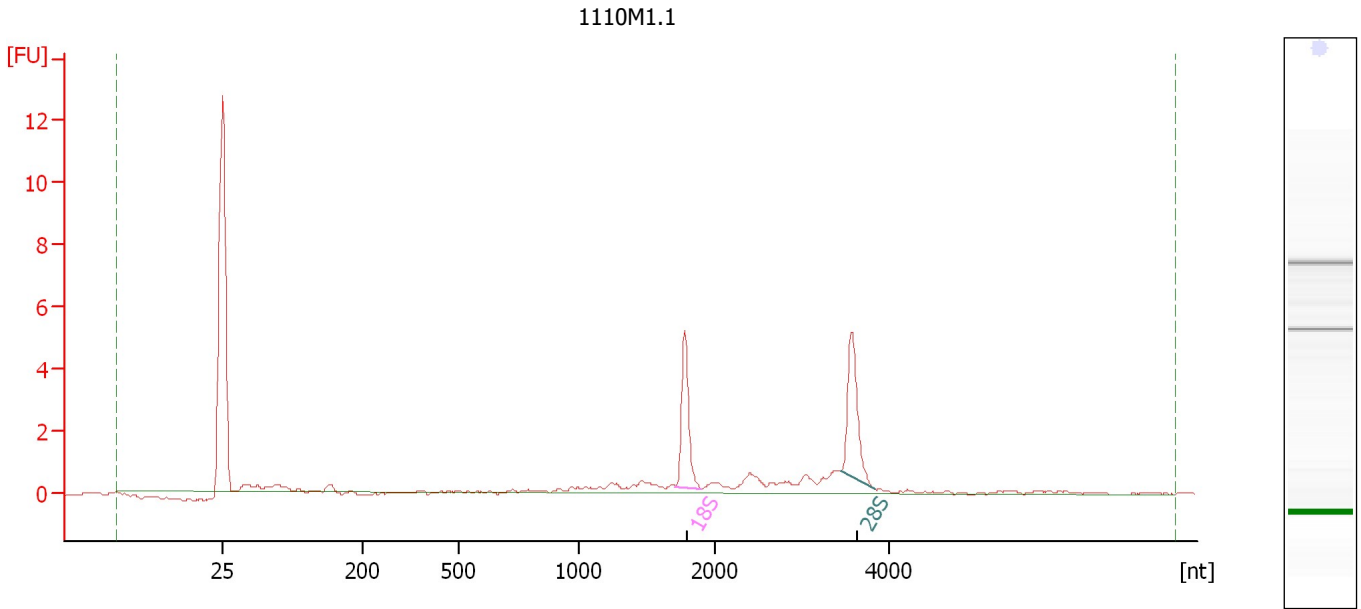
Fragment table for sample 2 : 1132M2.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,625	1,862	97.4	17.2
28S	3,085	3,891	128.6	22.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1110M1.1

RNA Area:	22.4	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	148 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN:8

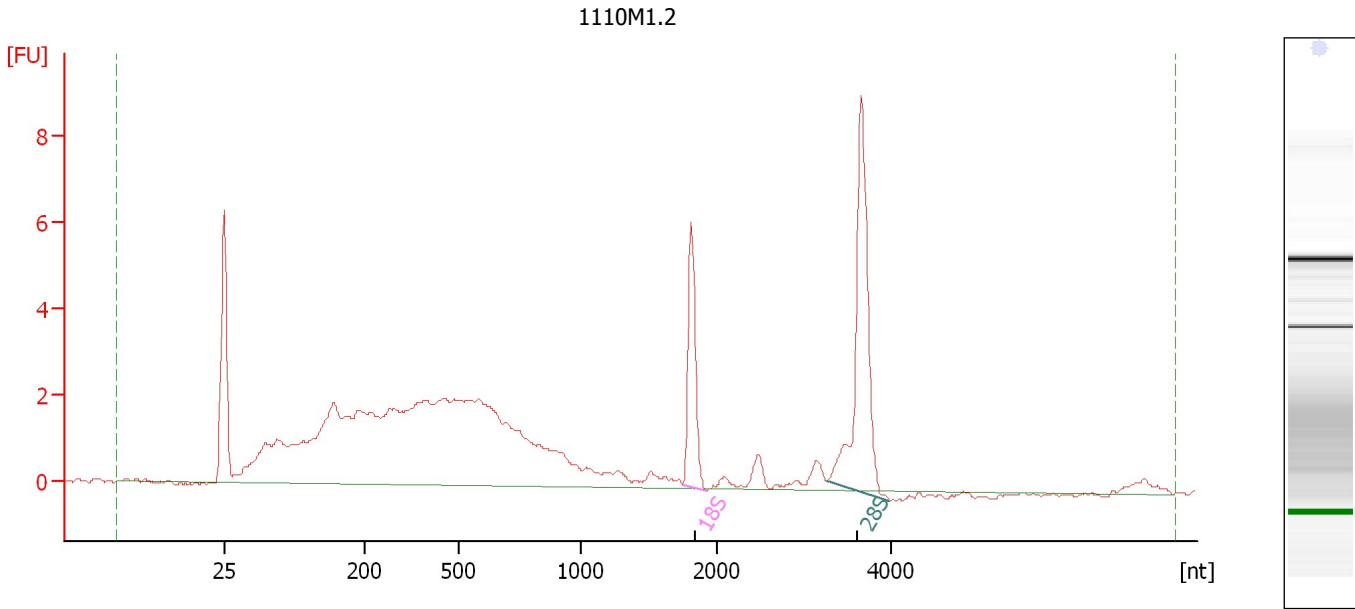
Fragment table for sample 3 : 1110M1.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,708	1,896	4.3	19.4
28S	3,436	3,829	4.4	19.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1110M1.2

RNA Area: 87.9 RNA Integrity Number (RIN): 6.6 (B.02.08)
RNA Concentration: 580 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 6.60

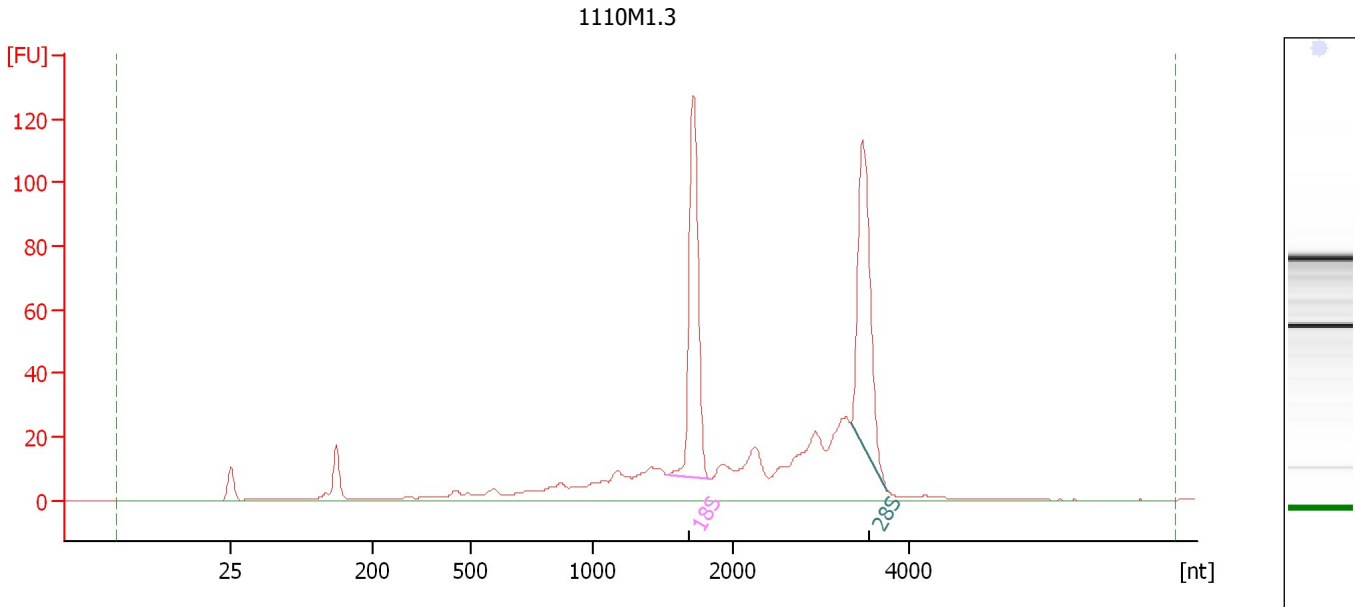
Fragment table for sample 4 : 1110M1.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,740	1,920	5.0	5.6
28S	3,262	3,973	10.9	12.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
 Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1110M1.3

RNA Area:	662.3	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	4,376 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN:8

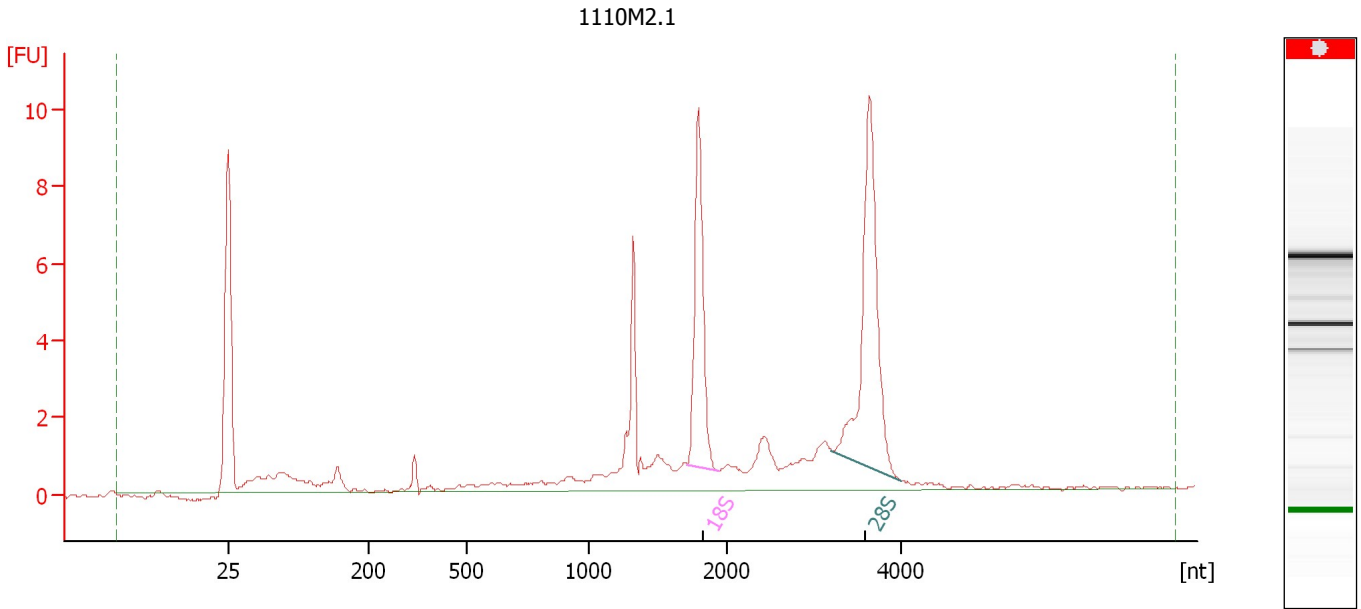
Fragment table for sample 5 : 1110M1.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,531	1,840	124.7	18.8
28S	3,345	3,757	117.0	17.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
 Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1110M2.1

RNA Area:	60.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	399 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN N/A

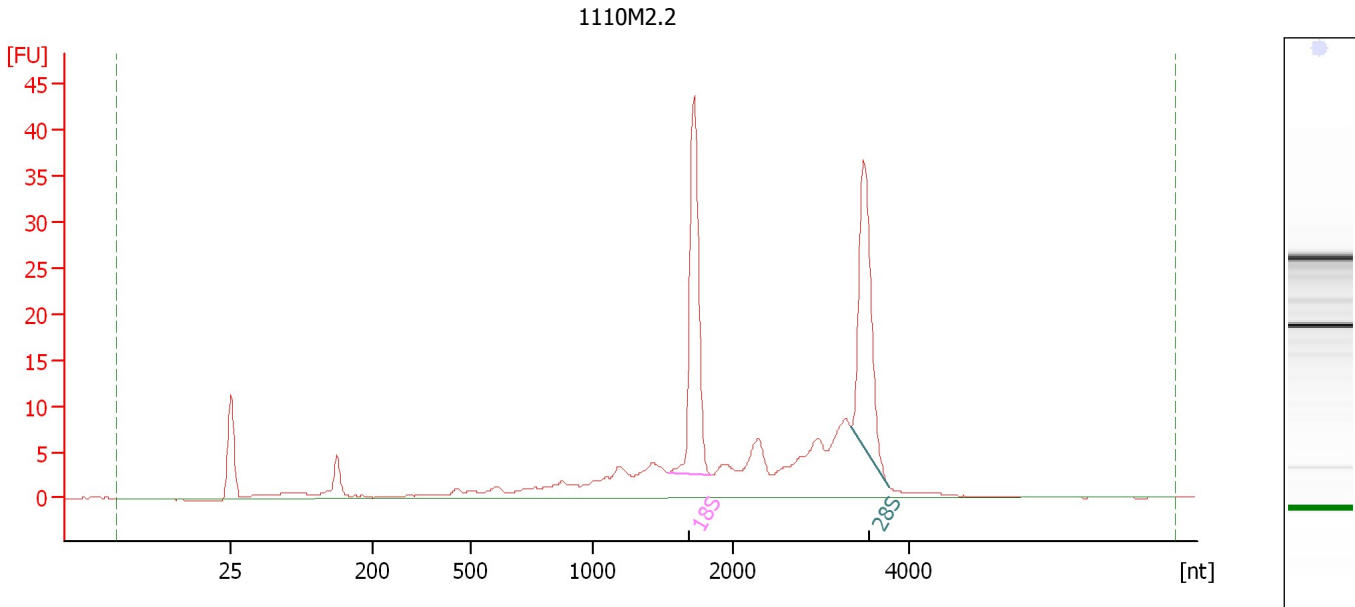
Fragment table for sample 6 : 1110M2.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,721	1,946	9.2	15.2
28S	3,205	3,984	13.9	23.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 1110M2.2

RNA Area: 219.5 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 1,450 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 7.80

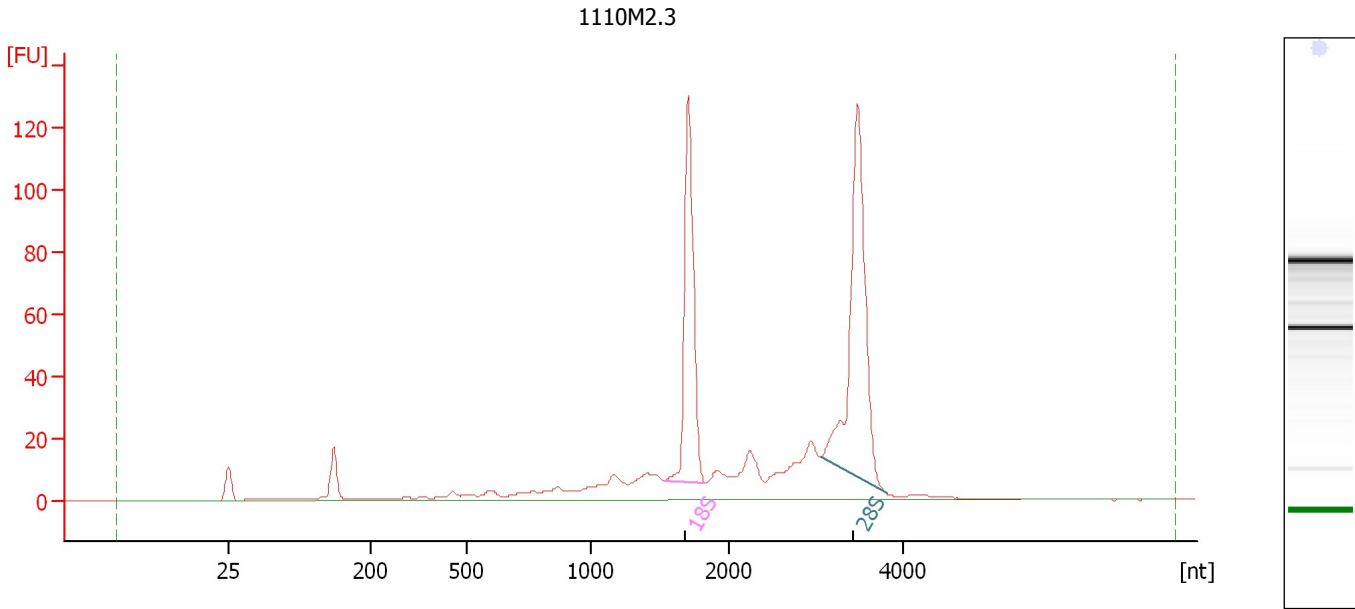
Fragment table for sample 7 : 1110M2.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,539	1,840	41.5	18.9
28S	3,345	3,769	36.9	16.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1110M2.3

RNA Area:	613.7	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	4,055 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.70

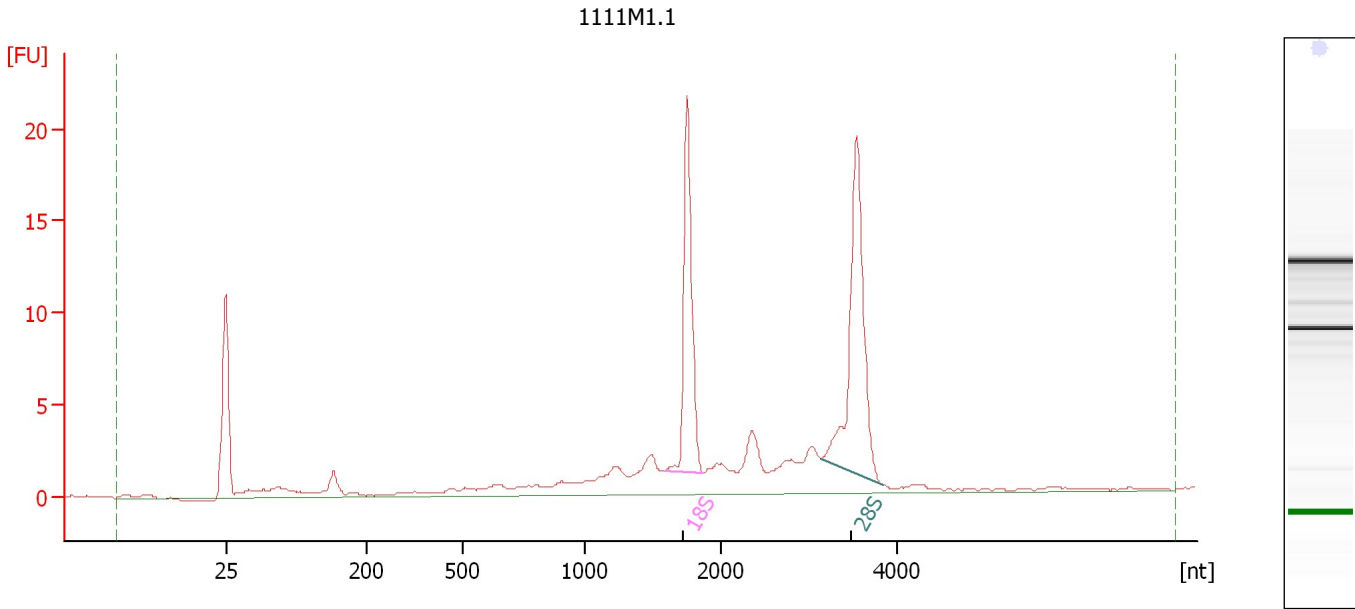
Fragment table for sample 8 : 1110M2.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,536	1,838	129.3	21.1
28S	3,058	3,799	179.1	29.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1111M1.1

RNA Area: 105.8 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 699 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.30

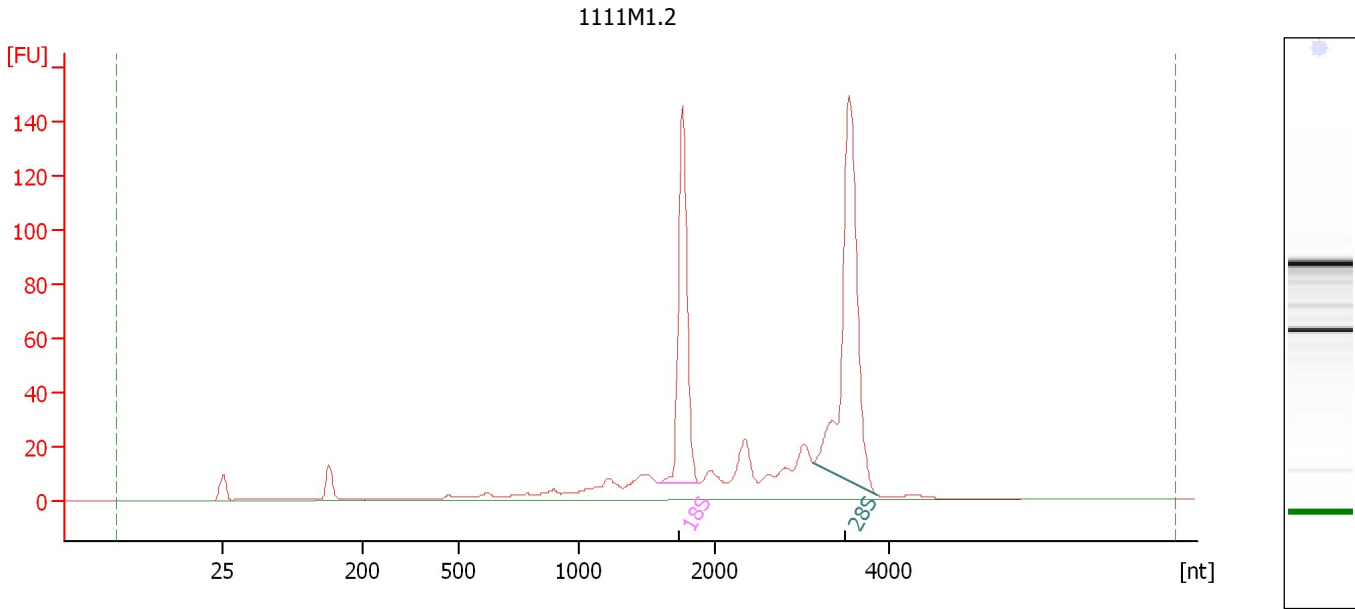
Fragment table for sample 9 : 1111M1.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,579	1,867	19.1	18.1
28S	3,136	3,844	25.2	23.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 1111M1.2

RNA Area: 677.9 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 4,479 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN:9

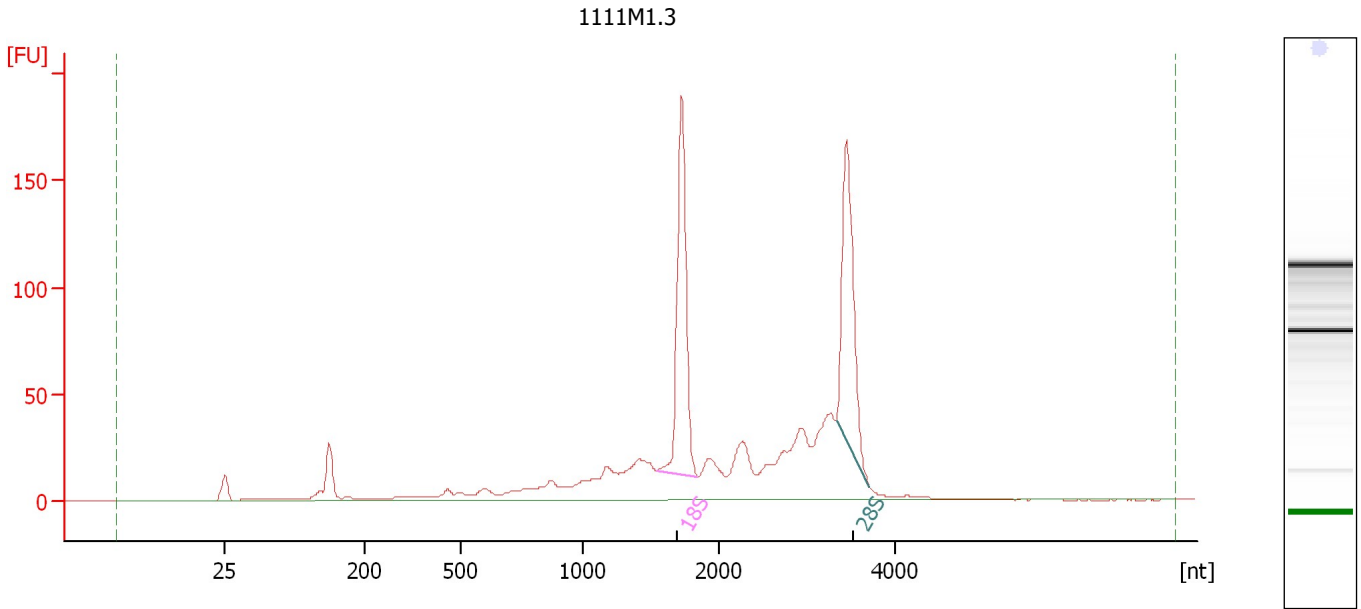
Fragment table for sample 10 : 1111M1.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,583	1,880	145.7	21.5
28S	3,128	3,866	214.5	31.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1111M1.3

RNA Area:	1,020.3	RNA Integrity Number (RIN):	7.7 (B.02.08)
RNA Concentration:	6,741 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN: 7.70

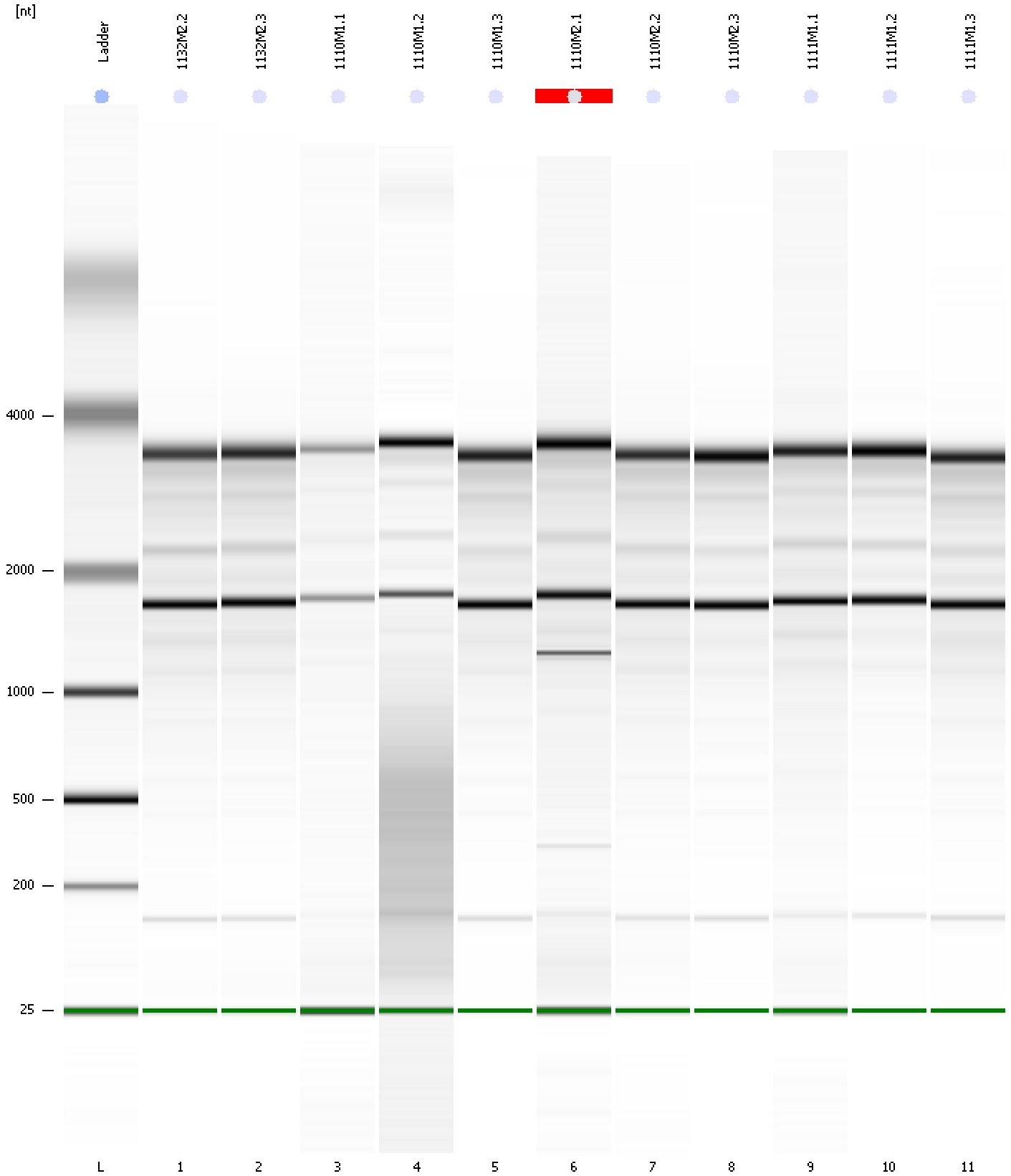
Fragment table for sample 11 : 1111M1.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,538	1,835	186.9	18.3
28S	3,333	3,713	160.8	15.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Gel Image

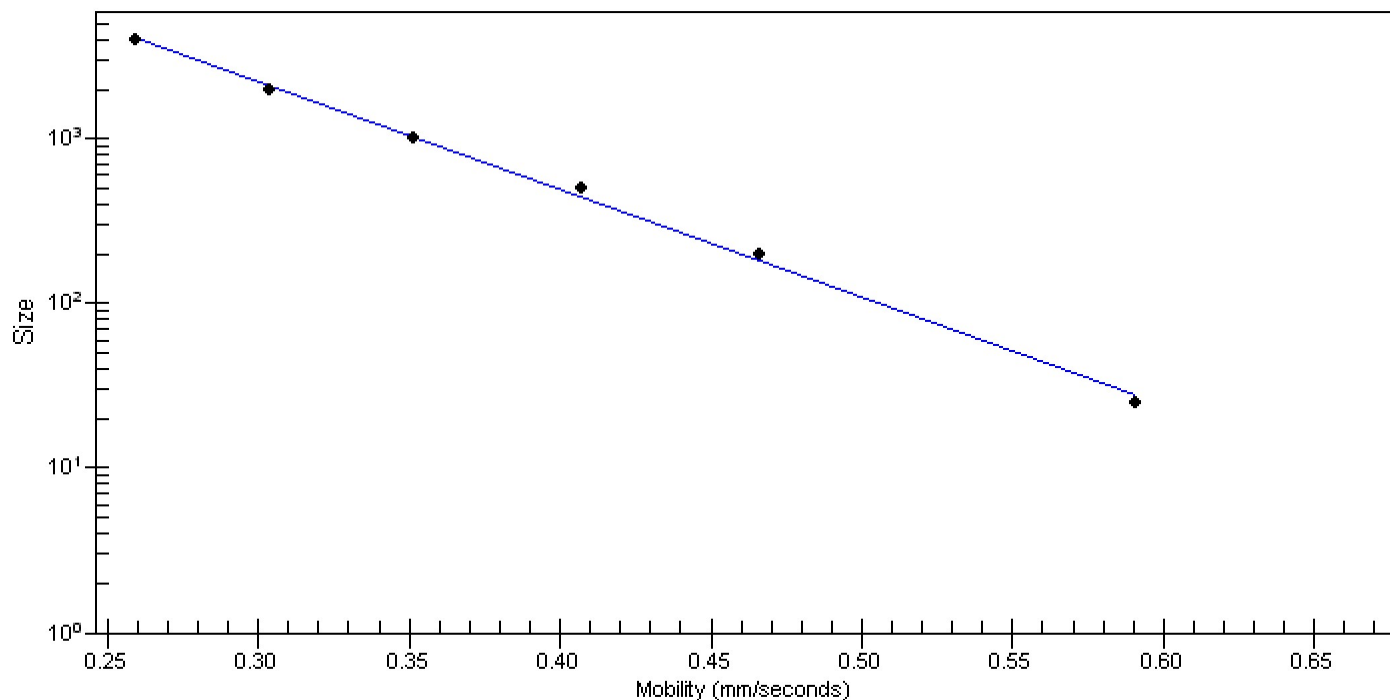


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
Modified: 11/12/2015 2:29:07 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad

Created: 11/12/2015 2:07:05 PM
 Modified: 11/12/2015 2:29:07 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		11/12/2015 2:29:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-12\2015-11-12_004.xad)		Instrument	Run		11/12/2015 2:07:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/12/2015 2:07:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/12/2015 2:07:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/12/2015 2:07:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/12/2015 2:07:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/12/2015 2:07:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/12/2015 2:07:10 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1