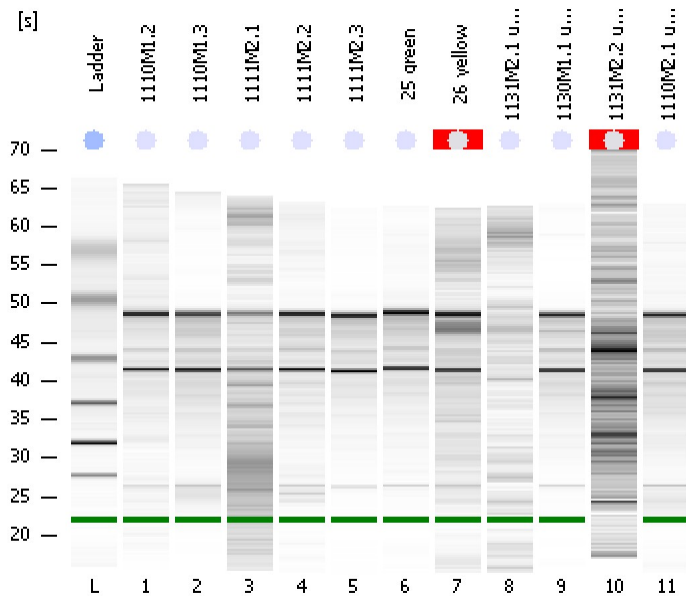


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electrophoresis File Run Summary



Instrument Information:

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

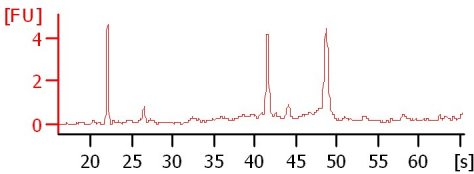
Assay Information:

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.

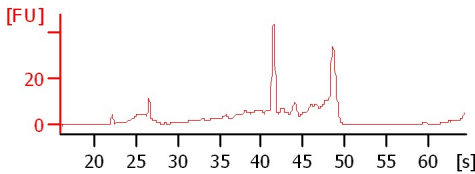
Chip Information:

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

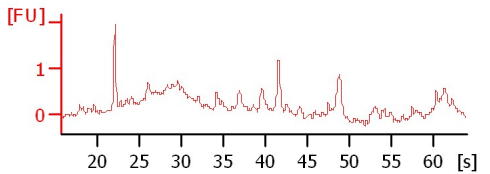
1110M1.2
RIN: 7.80



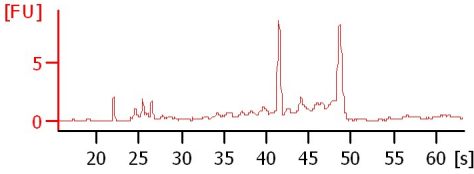
1110M1.3
RIN: 7



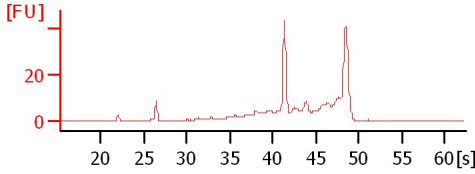
1111M2.1
RIN: 5.80



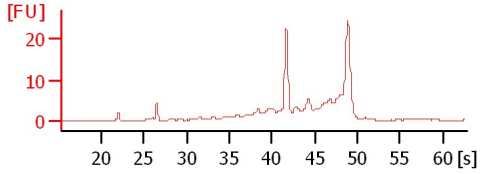
1111M2.2
RIN: 7.60



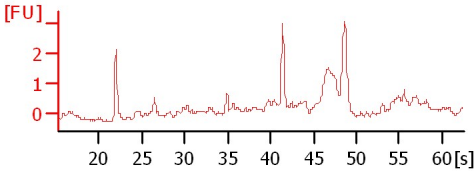
1111M2.3
RIN: 7.40



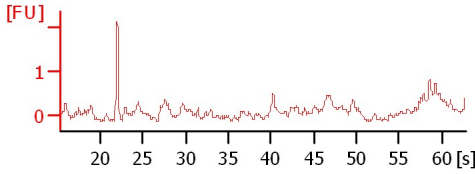
25 green
RIN: 7.60



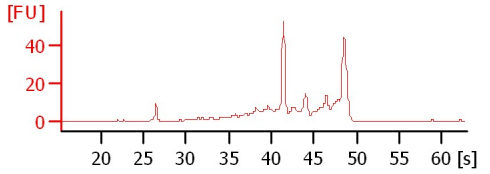
26 yellow
RIN N/A



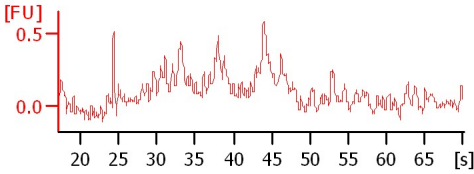
1131M2.1 undil
RIN: 2.30



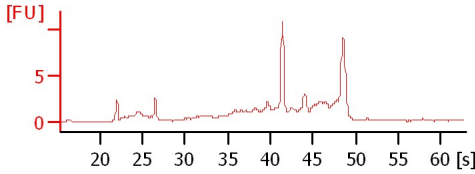
1130M1.1 undil
RIN: 7.10



1131M2.2 undil
RIN N/A



1110M2.1 undil
RIN: 6.90



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
 Modified: 11/16/2015 4:39:55 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1110M1.2		✓	RIN: 7.80	
1110M1.3		✓	RIN:7	
1111M2.1		✓	RIN: 5.80	
1111M2.2		✓	RIN: 7.60	
1111M2.3		✓	RIN: 7.40	
25 green		✓	RIN: 7.60	
26 yellow		✓	RIN N/A	
1131M2.1 undil		✓	RIN: 2.30	
1130M1.1 undil		✓	RIN: 7.10	
1131M2.2 undil		✓	RIN N/A	
1110M2.1 undil		✓	RIN: 6.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 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

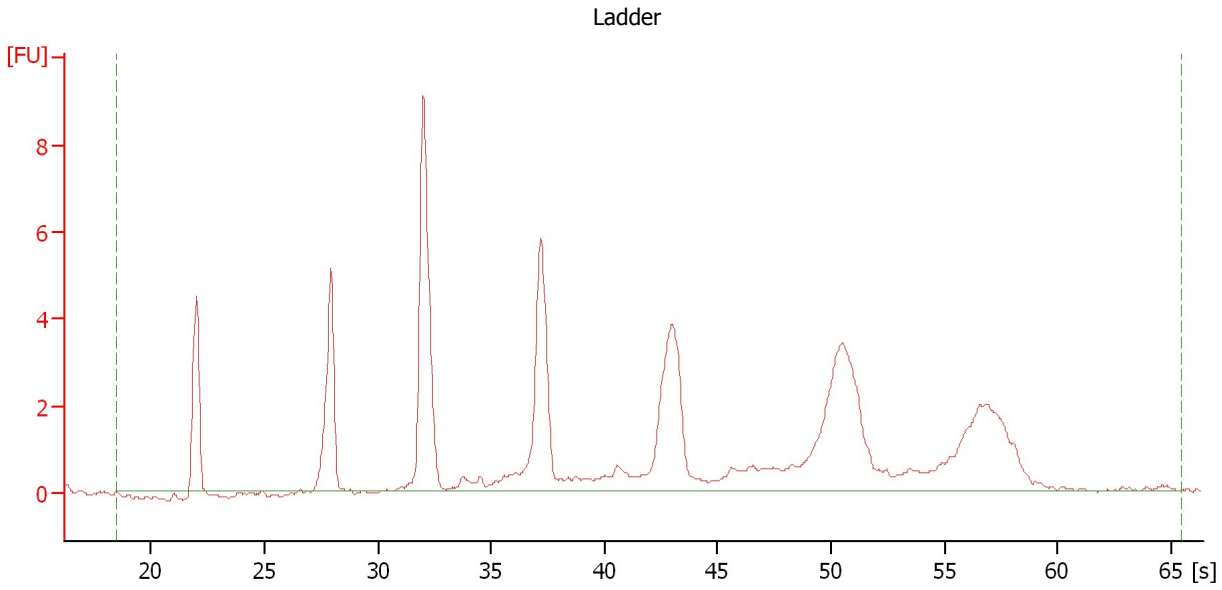
Ladder

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\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary



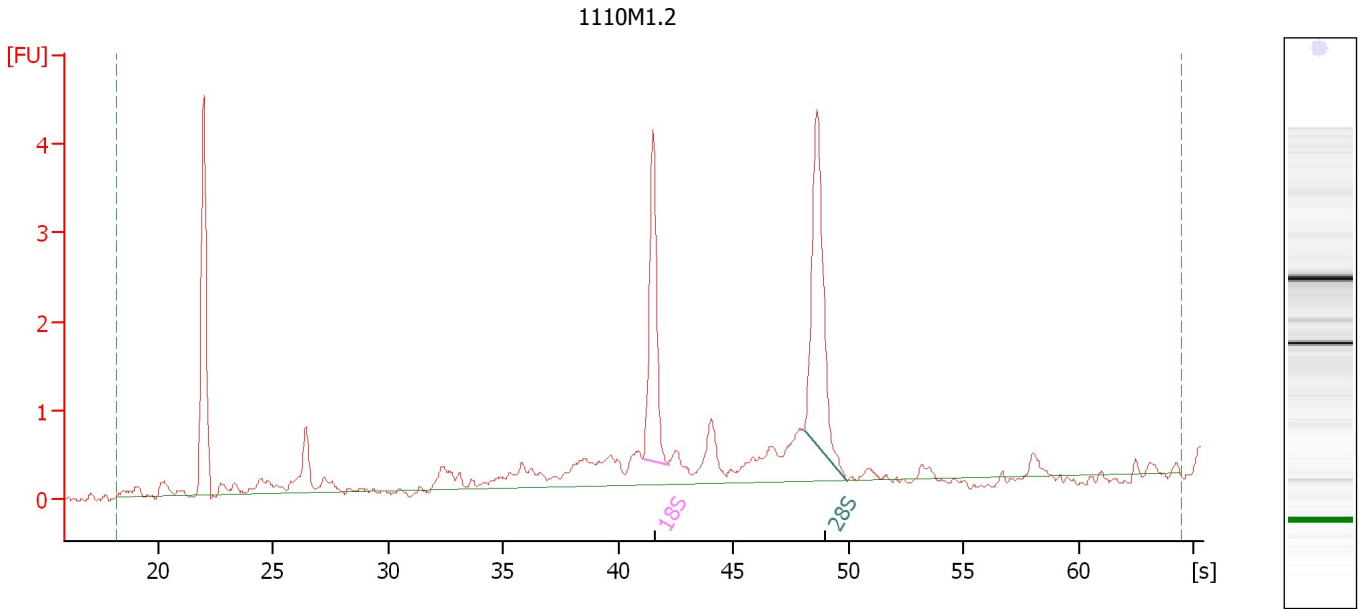
Overall Results for Ladder

RNA Area:	73.9	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\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
 Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 1110M1.2

RNA Area:	21.9	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	297 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.80

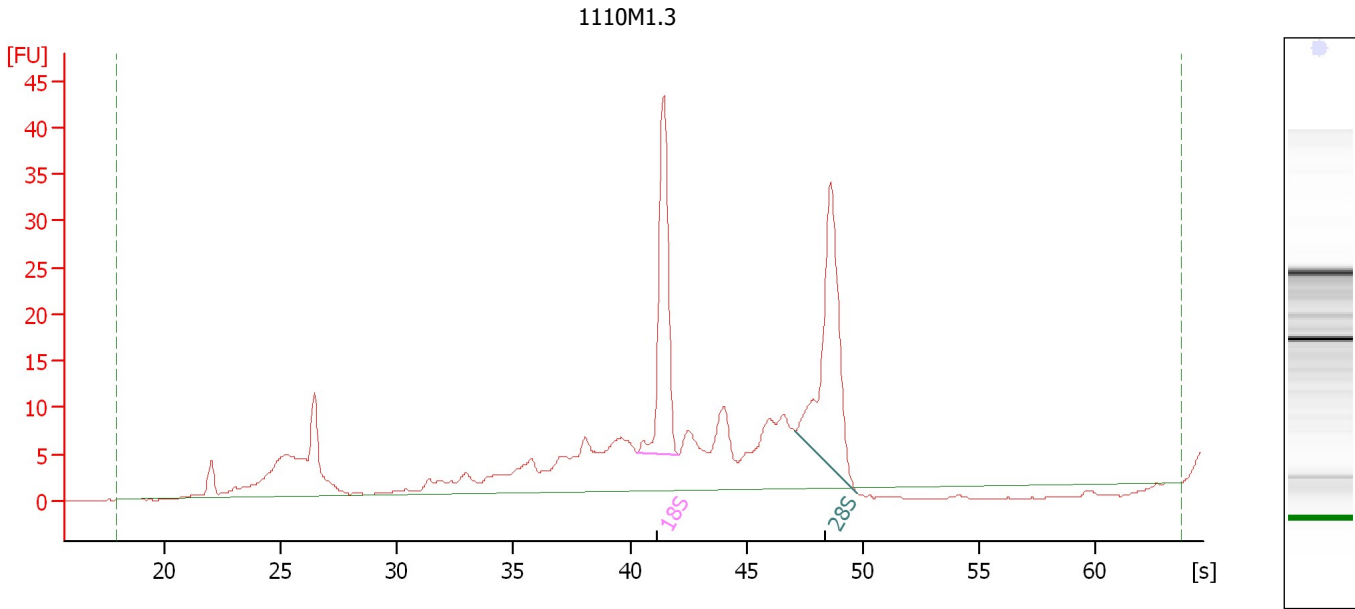
Fragment table for sample 1 : 1110M1.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,663	1,857	3.4	15.4
28S	3,363	3,849	4.4	20.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1110M1.3

RNA Area:	325.5	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	4,404 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN:7

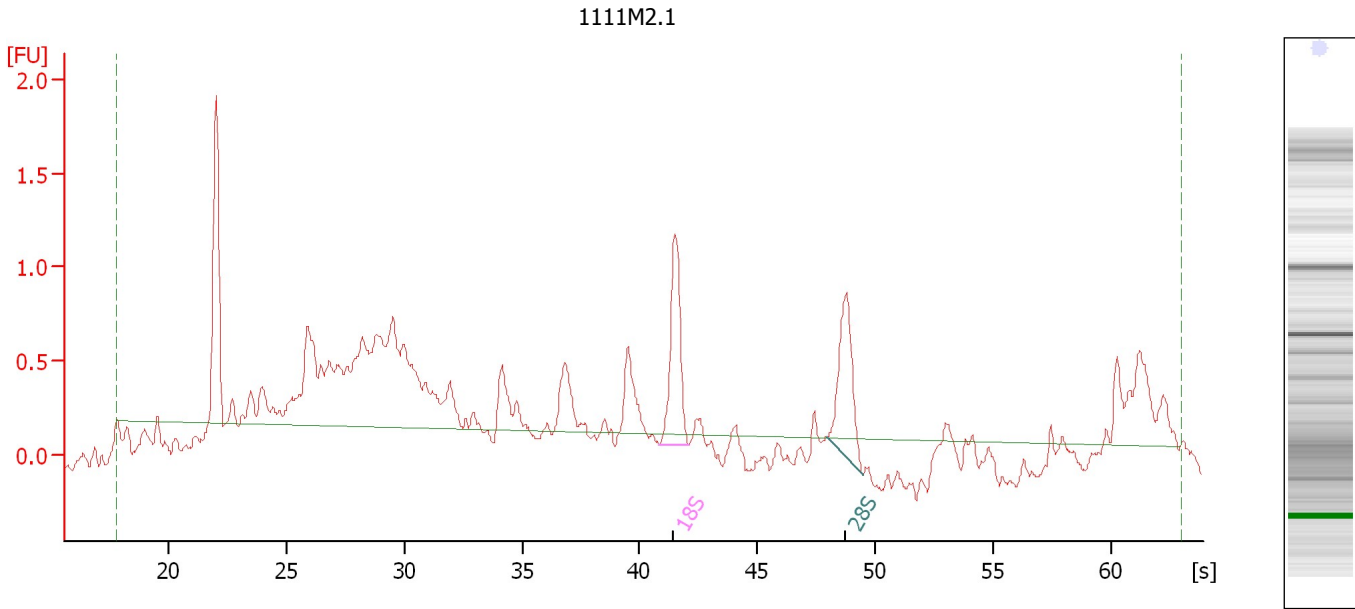
Fragment table for sample 2 : 1110M1.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,534	1,837	42.7	13.1
28S	3,090	3,804	51.5	15.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 1111M2.1

RNA Area: 14.5 RNA Integrity Number (RIN): 5.8 (B.02.08)
RNA Concentration: 196 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 5.80

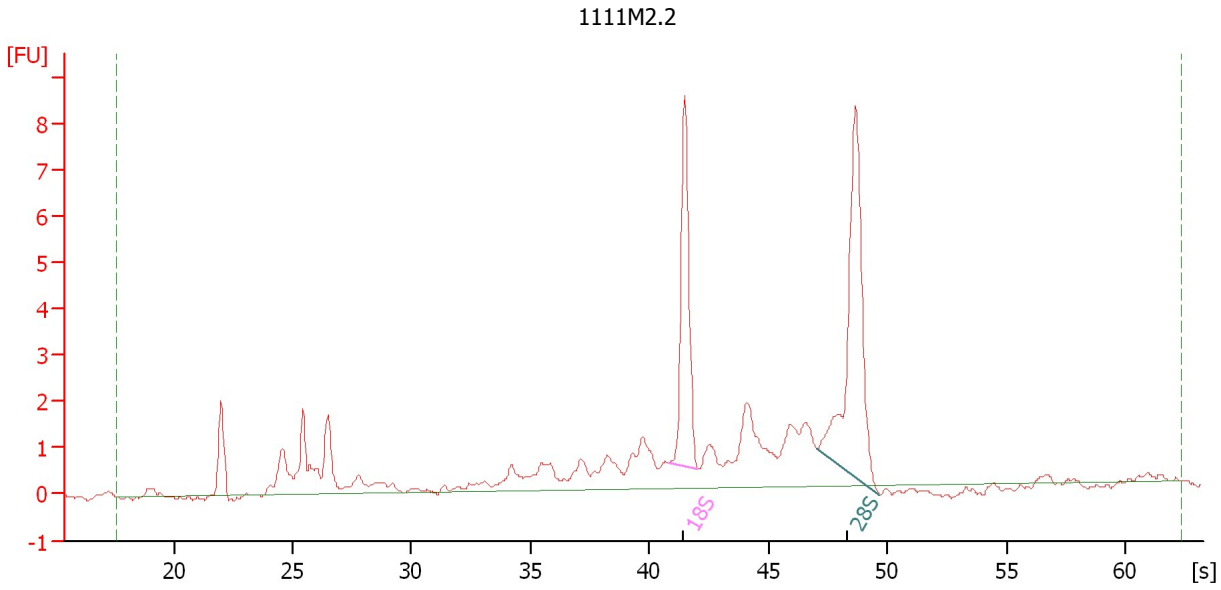
Fragment table for sample 3 : 1111M2.1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,627	1,848	1.3	8.8
28S	3,325	3,728	1.2	8.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1111M2.2

RNA Area: 53.2 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 719 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 7.60

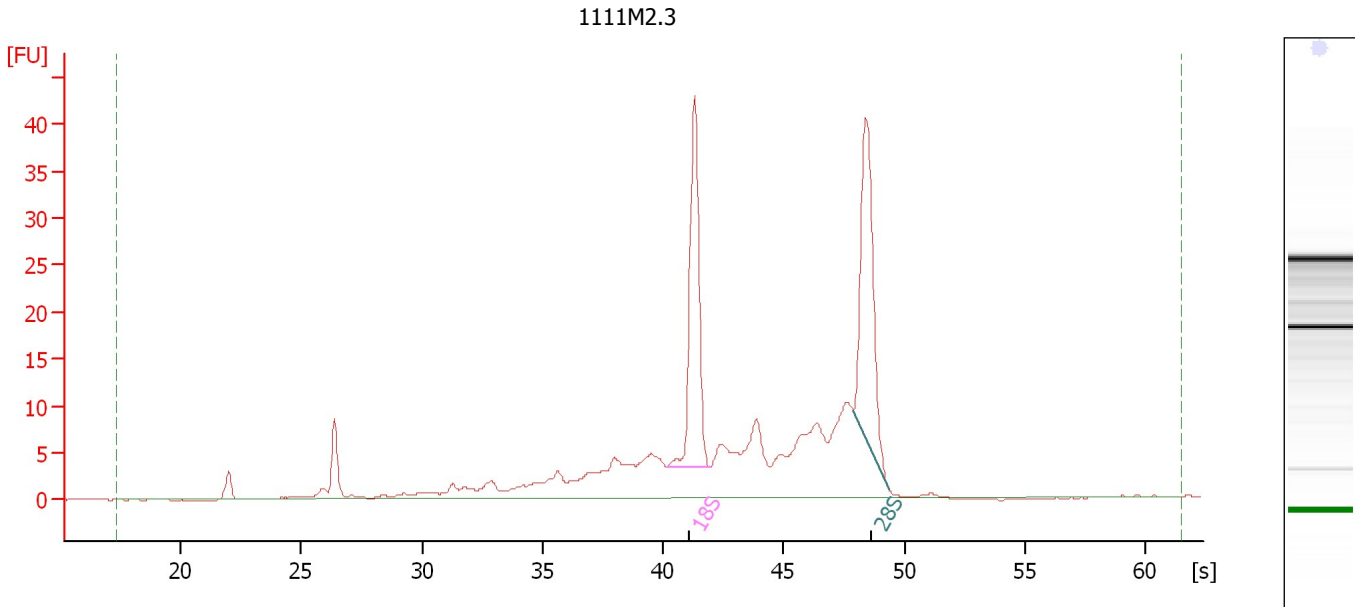
Fragment table for sample 4 : 1111M2.2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,617	1,828	7.6	14.2
28S	3,085	3,785	11.4	21.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
 Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1111M2.3

RNA Area:	271.8	RNA Integrity Number (RIN):	7.4 (B.02.08)
RNA Concentration:	3,677 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.40

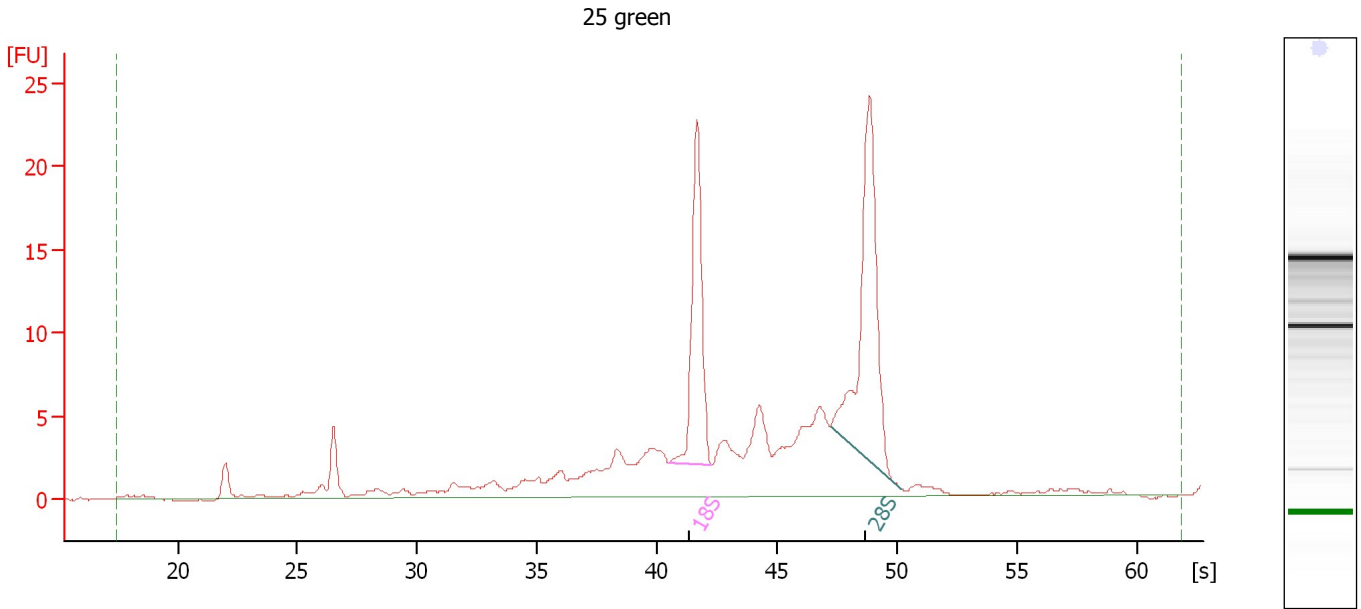
Fragment table for sample 5 : 1111M2.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,510	1,817	41.9	15.4
28S	3,300	3,692	41.5	15.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 25 green

RNA Area: 168.7 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 2,282 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 7.60

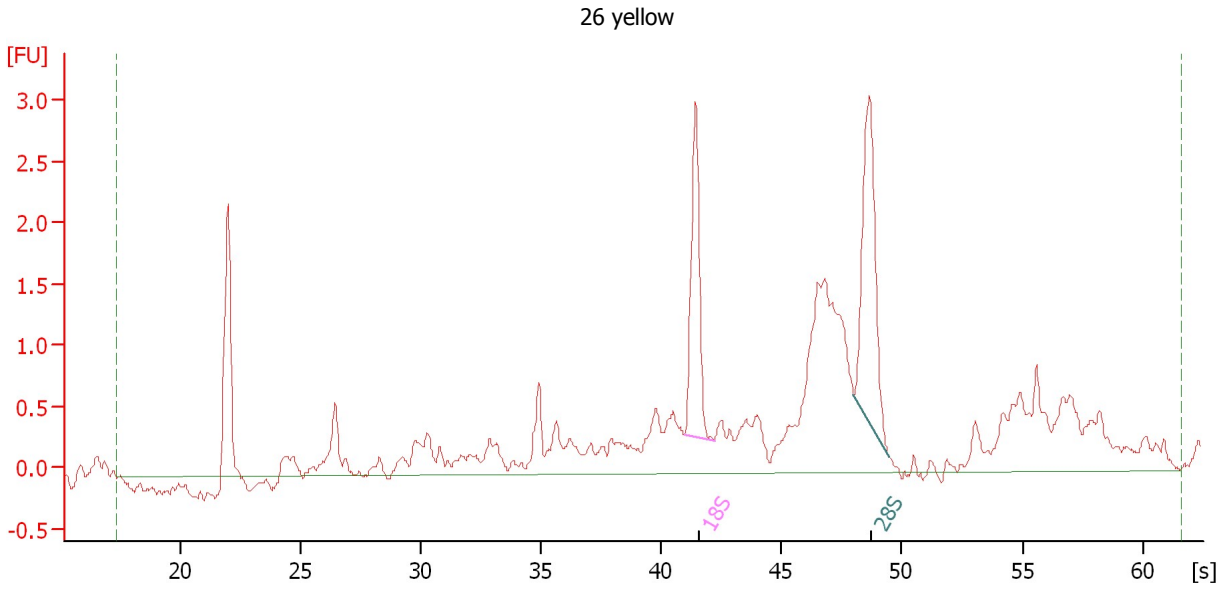
Fragment table for sample 6 : 25 green

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,870	23.8	14.1
28S	3,127	3,916	34.5	20.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 26 yellow

RNA Area:	30.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	417 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN N/A

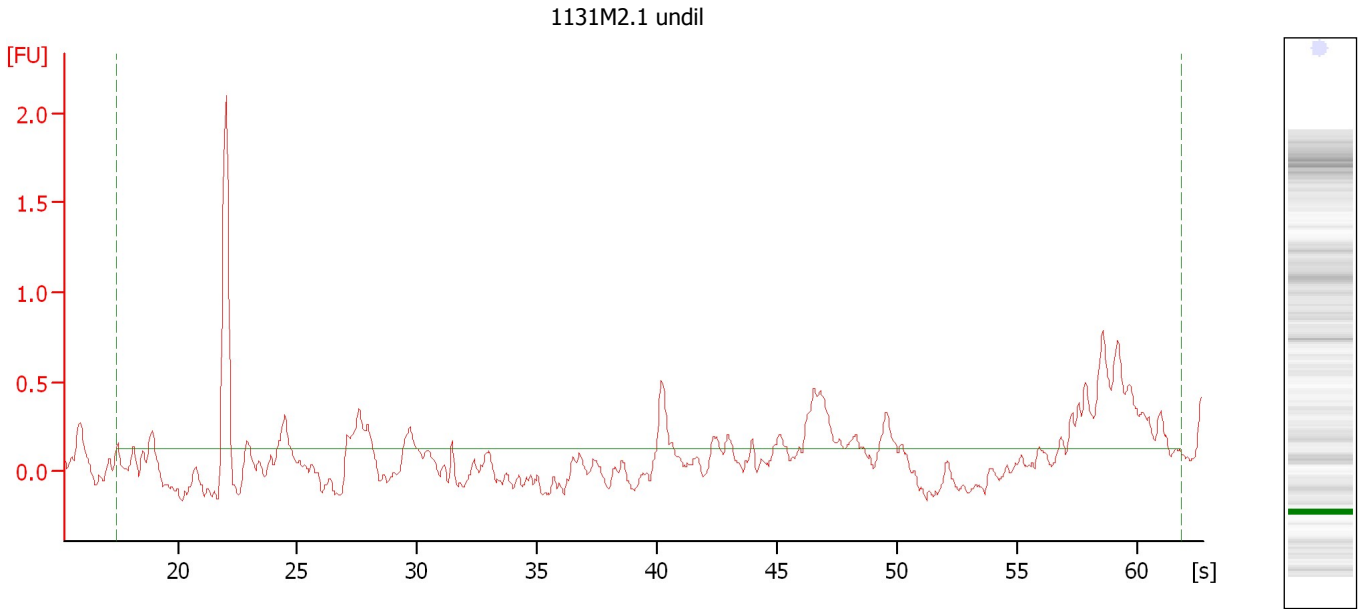
Fragment table for sample 7 : 26 yellow

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	1,863	2.6	8.4
28S	3,326	3,719	3.3	10.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



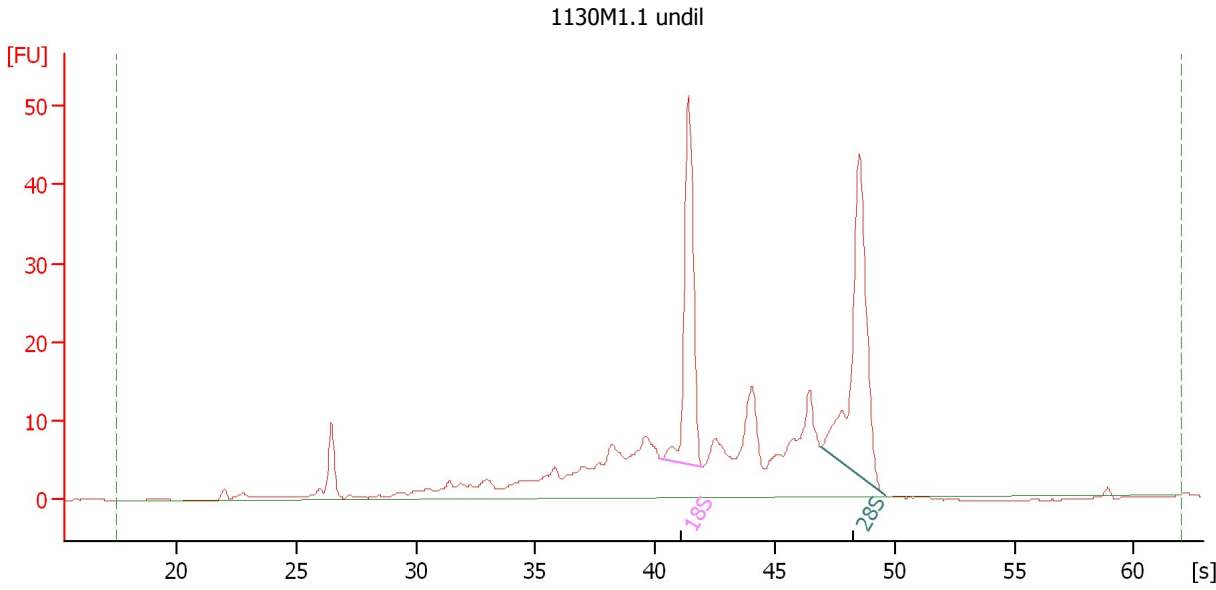
Overall Results for sample 8 : 1131M2.1 undil

RNA Area:	4.1	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	56 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 1130M1.1 undil

RNA Area: 337.0 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 4,559 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 7.10

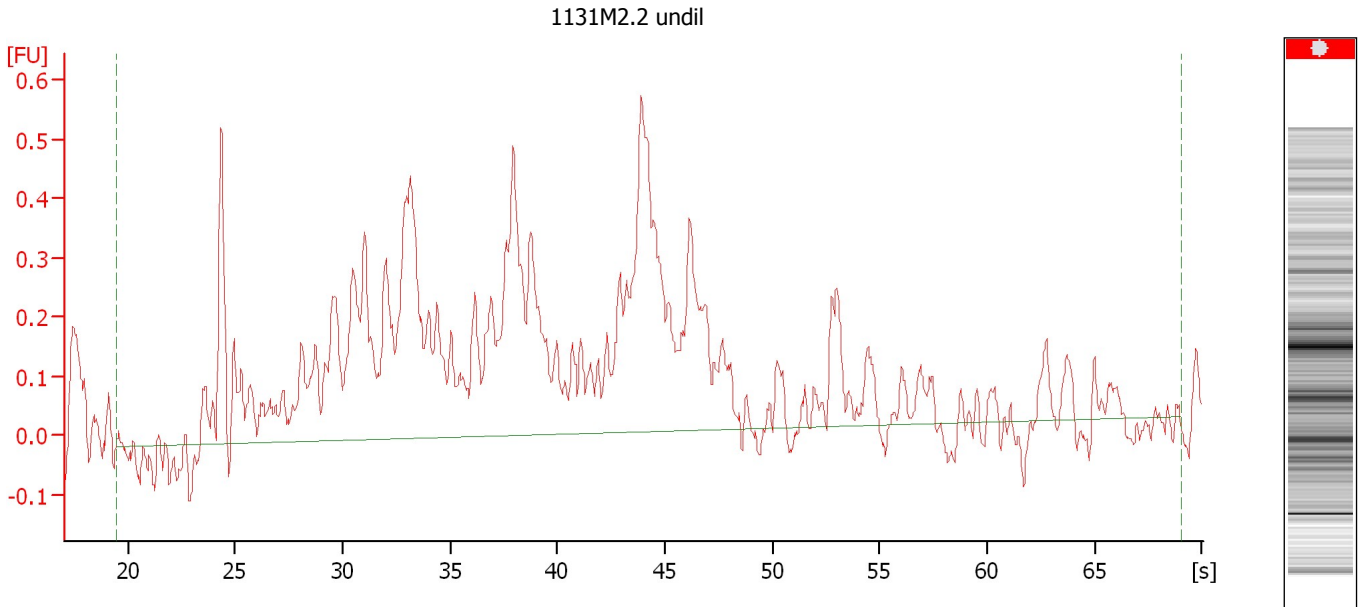
Fragment table for sample 9 : 1130M1.1 undil

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,527	1,822	48.5	14.4
28S	3,044	3,752	61.4	18.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



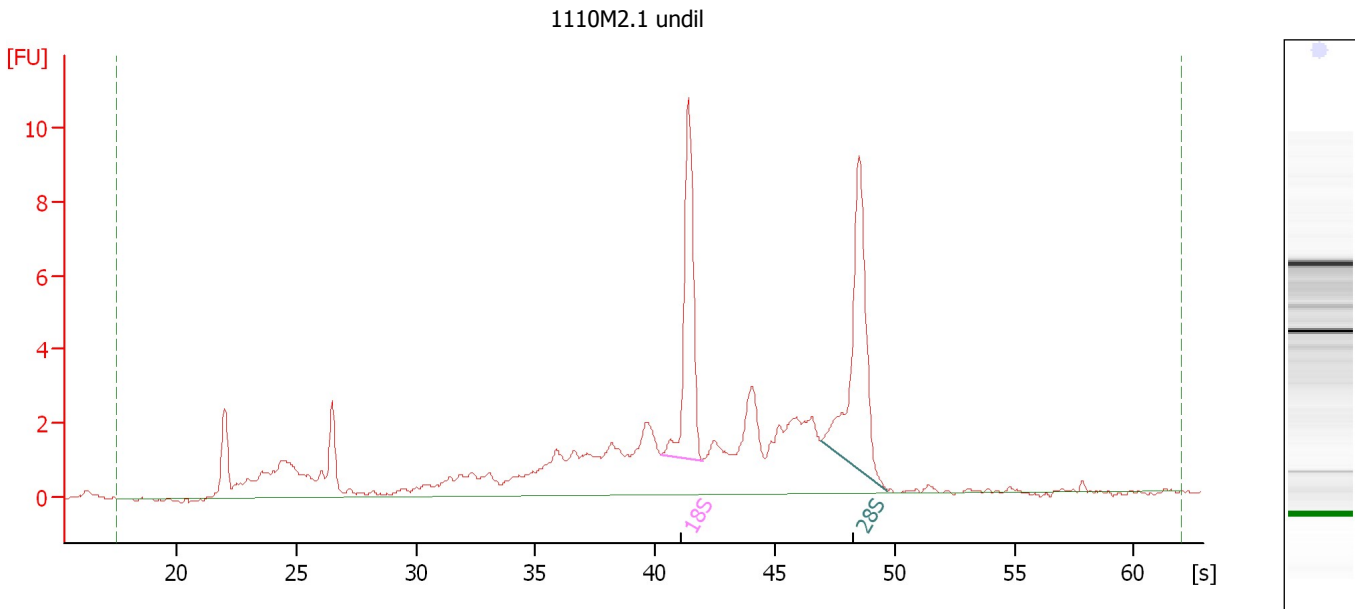
Overall Results for sample 10 : 1131M2.2 undil

RNA Concentration:	181 pg/μl	Result Flagging Color:	<input type="checkbox"/>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
 Modified: 11/16/2015 4:39:55 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 1110M2.1 undil

RNA Area:	86.7	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	1,172 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 6.90

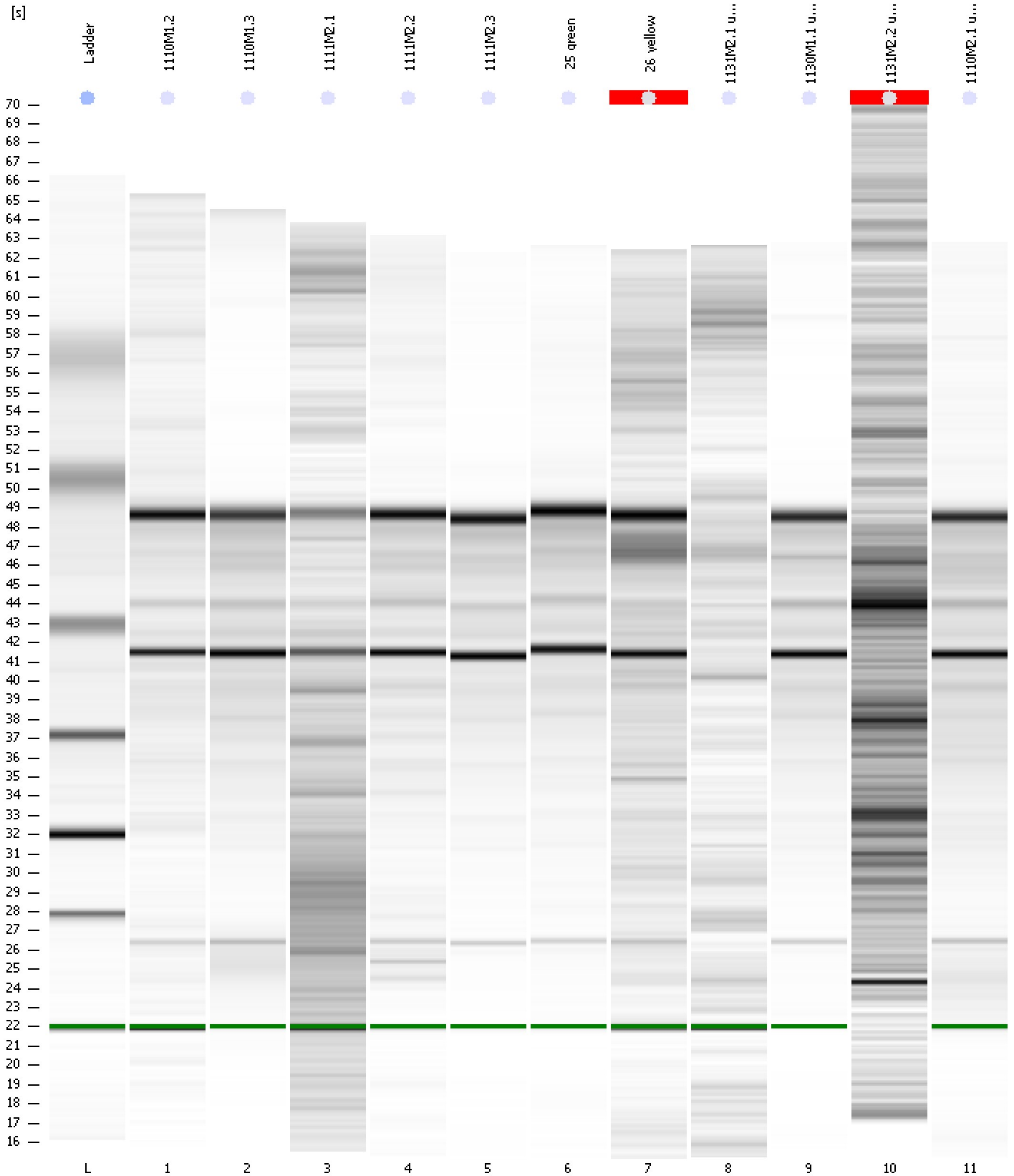
Fragment table for sample 11 : 1110M2.1 undil

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,527	1,822	10.0	11.6
28S	3,044	3,788	12.2	14.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Gel Image

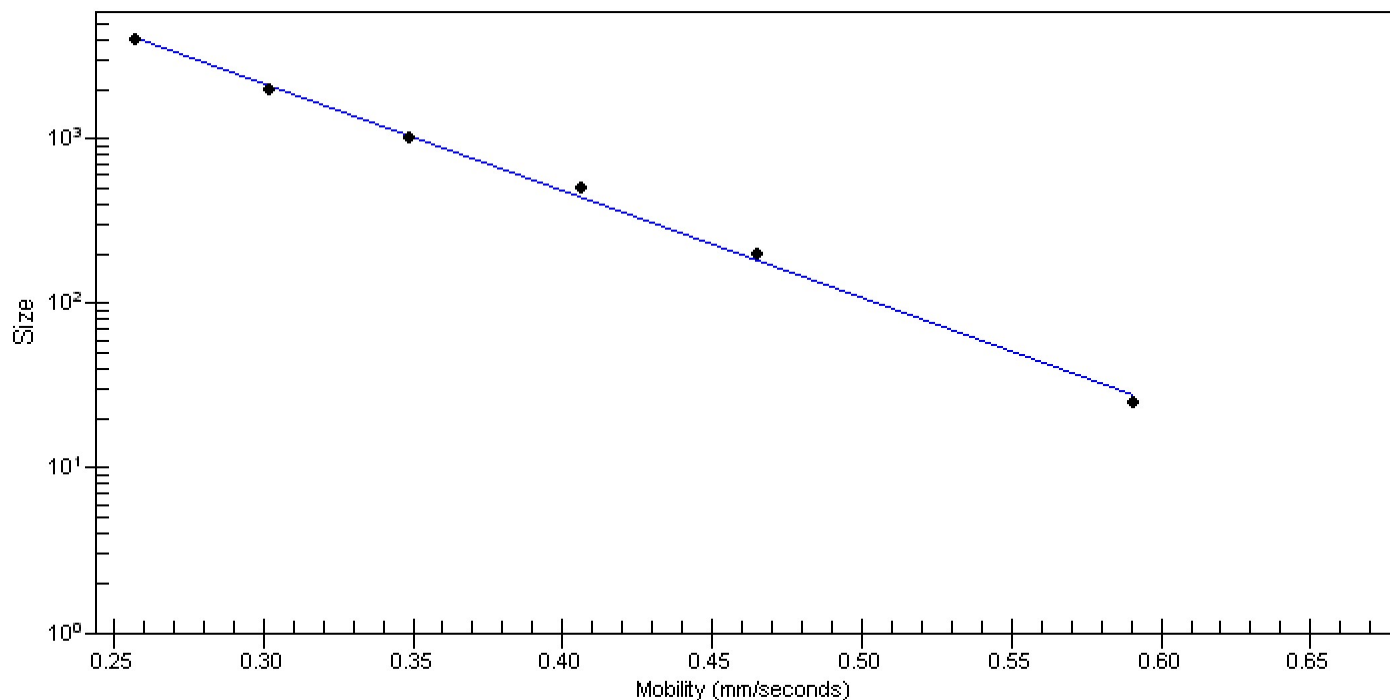


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
Modified: 11/16/2015 4:39:55 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad

Created: 11/16/2015 4:17:00 PM
 Modified: 11/16/2015 4:39:55 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		11/16/2015 4:39:54 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-16\2015-11-16_004.xad)		Instrument	Run		11/16/2015 4:17:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/16/2015 4:17:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/16/2015 4:17:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/16/2015 4:17:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/16/2015 4:17:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/16/2015 4:17:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/16/2015 4:17:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1