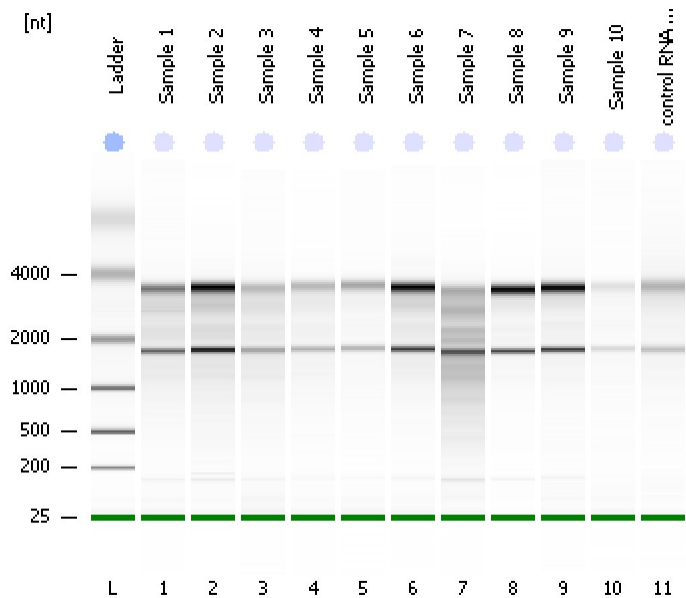


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
 Modified: 10/23/2015 3:26:39 PM

Electrophoresis File Run Summary

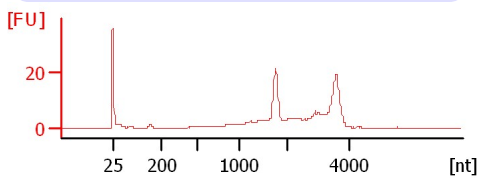


Instrument Information:
 Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

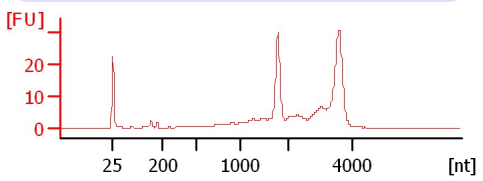
Assay Information:
 Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
 Assay Class: Eukaryote Total RNA Pico
 Version: 2.6
 Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
 © Copyright 2003 - 2009 Agilent Technologies,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

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

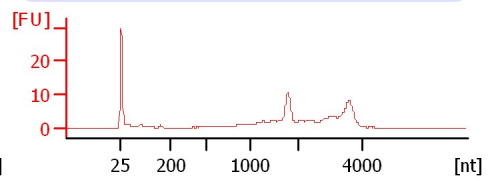
Sample 1
 RIN: 8.30



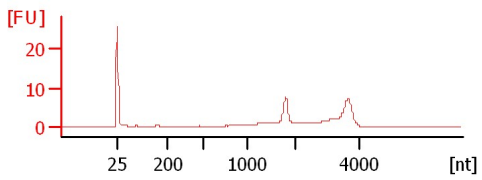
Sample 2
 RIN: 8.30



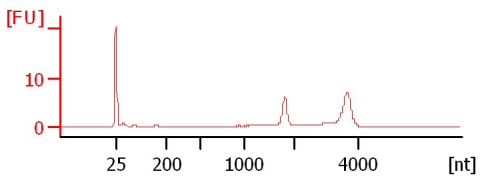
Sample 3
 RIN: 7.70



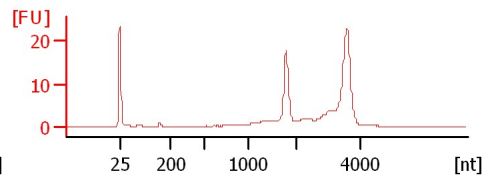
Sample 4
 RIN: 8.50



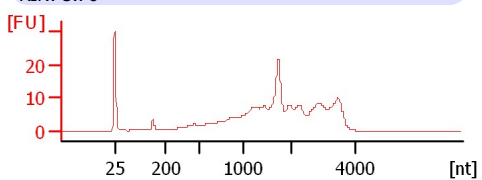
Sample 5
 RIN: 9.10



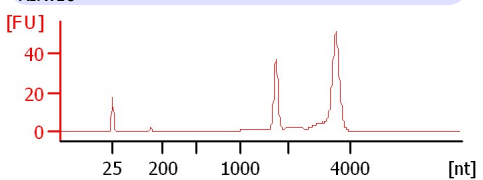
Sample 6
 RIN: 9.10



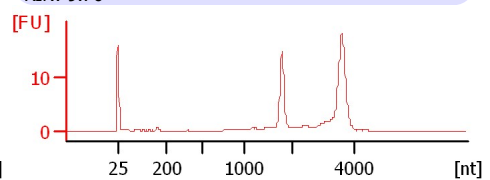
Sample 7
 RIN: 5.70



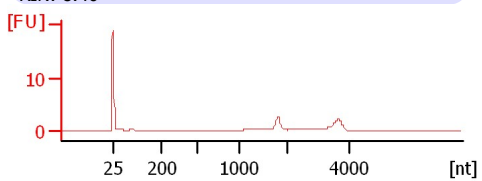
Sample 8
 RIN: 10



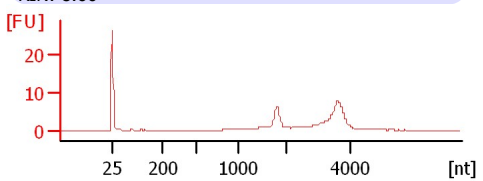
Sample 9
 RIN: 9.70



Sample 10
 RIN: 8.40



control RNA 1ng/ul
 RIN: 8.60



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN: 8.30	
Sample 2		✓	RIN: 8.30	
Sample 3		✓	RIN: 7.70	
Sample 4		✓	RIN: 8.50	
Sample 5		✓	RIN: 9.10	
Sample 6		✓	RIN: 9.10	
Sample 7		✓	RIN: 5.70	
Sample 8		✓	RIN:10	
Sample 9		✓	RIN: 9.70	
Sample 10		✓	RIN: 8.40	
control RNA 1ng/ul		✓	RIN: 8.60	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 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

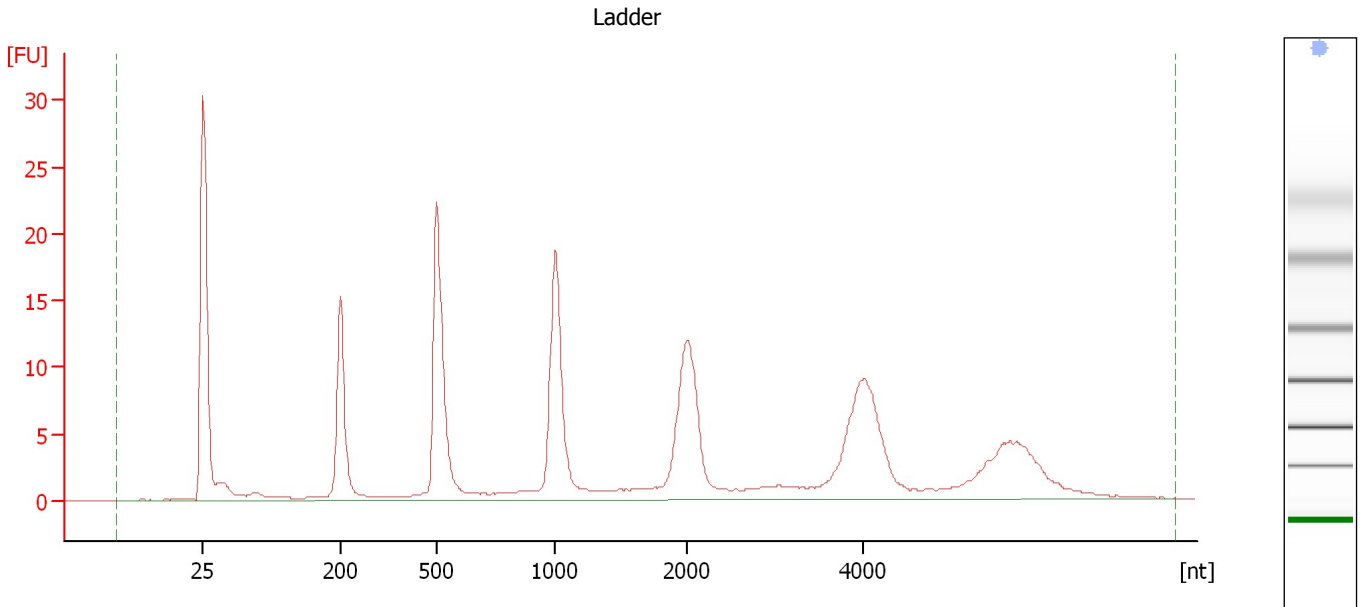
Ladder

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\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary



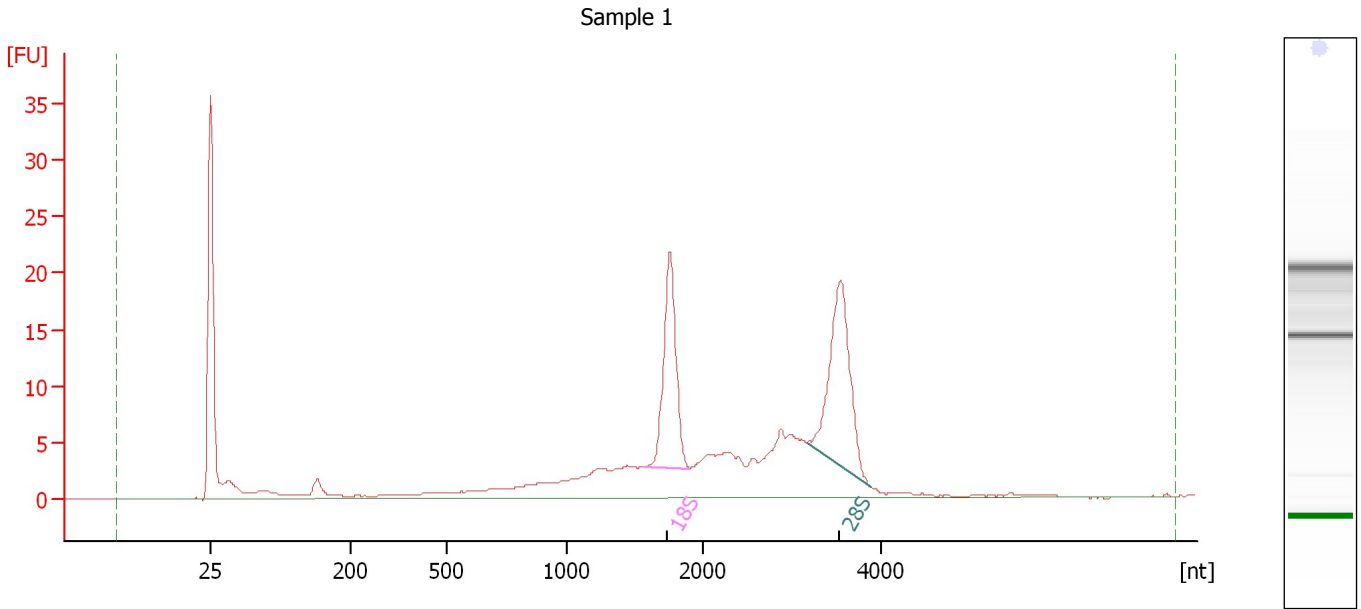
Overall Results for Ladder

RNA Area:	201.9	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\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	188.9	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	936 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.30

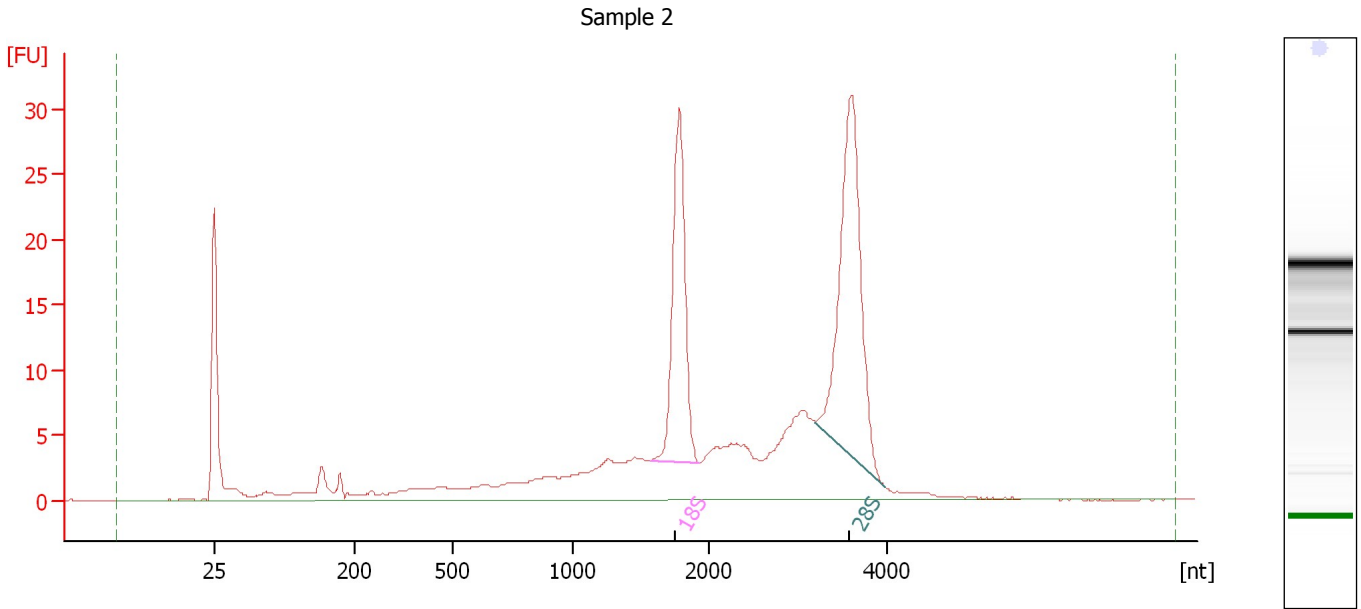
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,573	1,906	28.2	14.9
28S	3,168	3,889	33.9	18.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	252.1	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	1,249 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 8.30

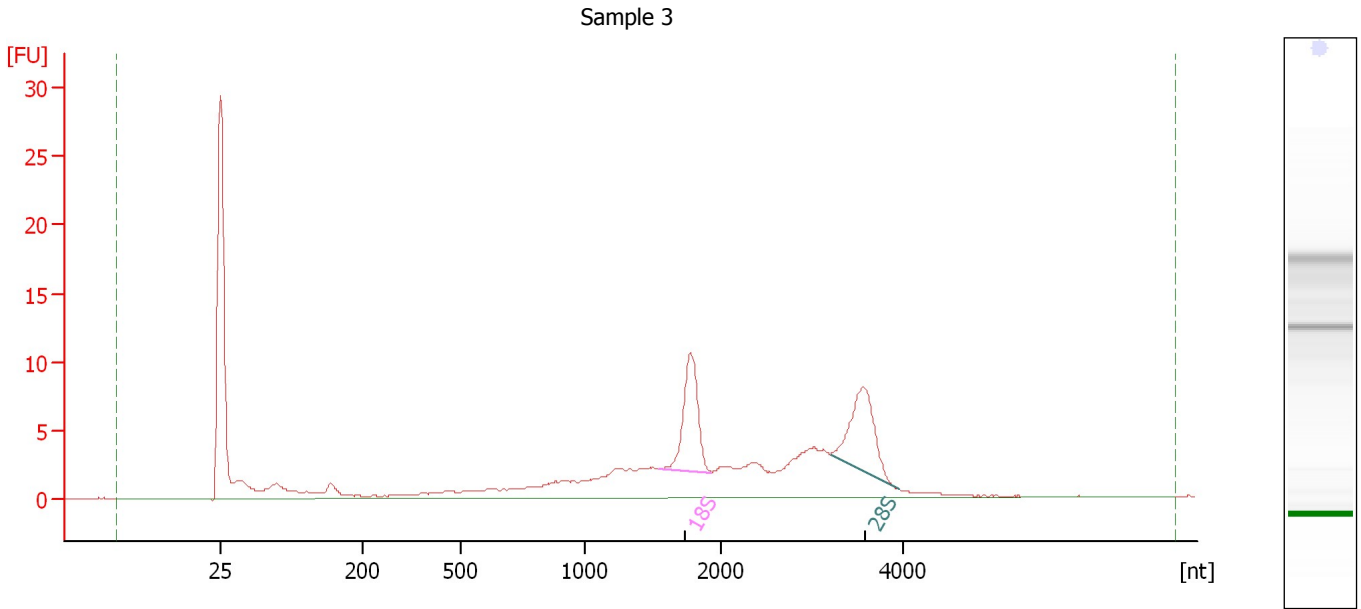
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,568	1,931	39.1	15.5
28S	3,198	3,962	57.1	22.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area: 128.2 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 635 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.70

Fragment table for sample 3 : Sample 3

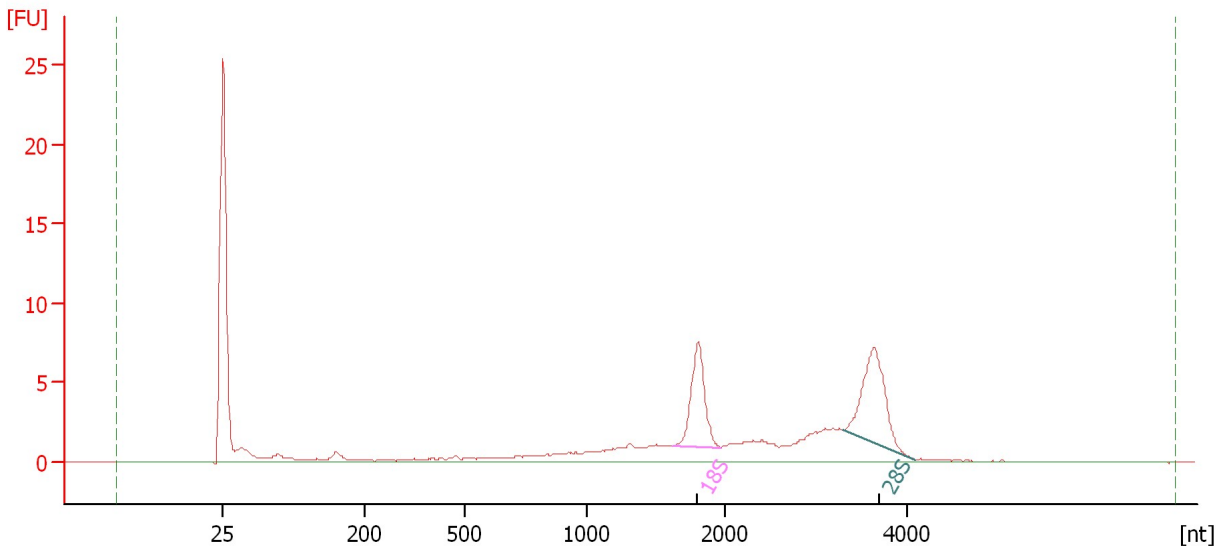
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,544	1,926	14.5	11.3
28S	3,210	3,965	14.4	11.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

RNA Area:	74.1	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	367 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.50

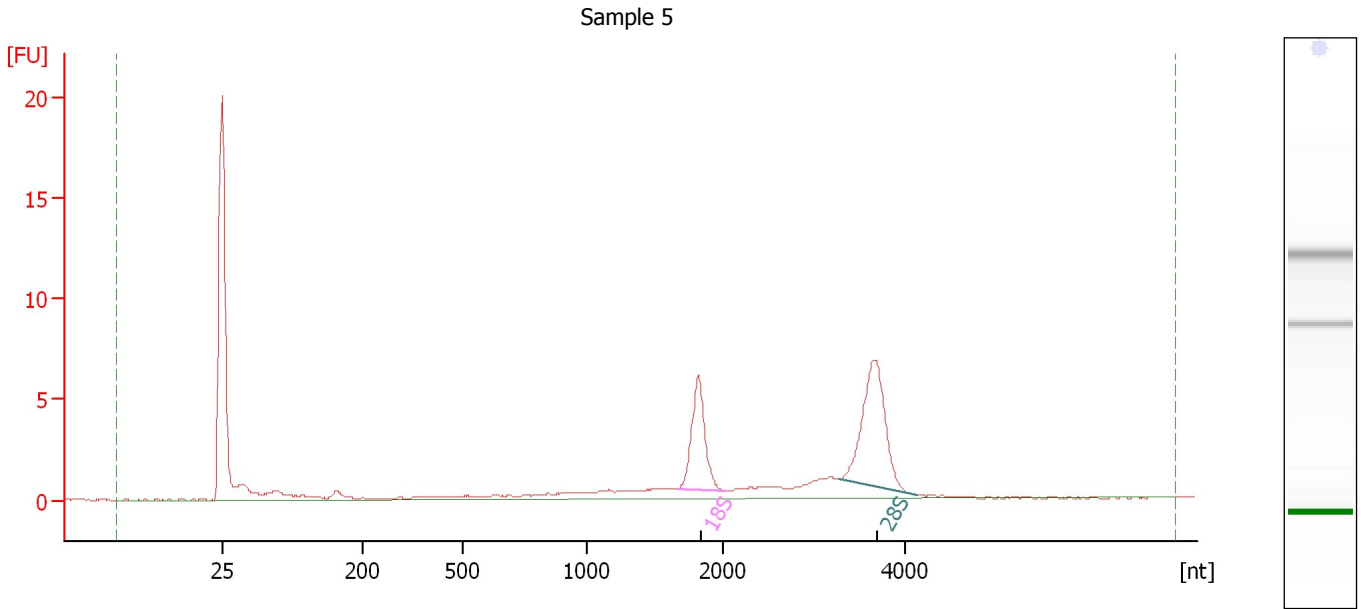
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,624	1,966	10.2	13.7
28S	3,300	4,087	13.3	17.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area:	50.0	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	247 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.10

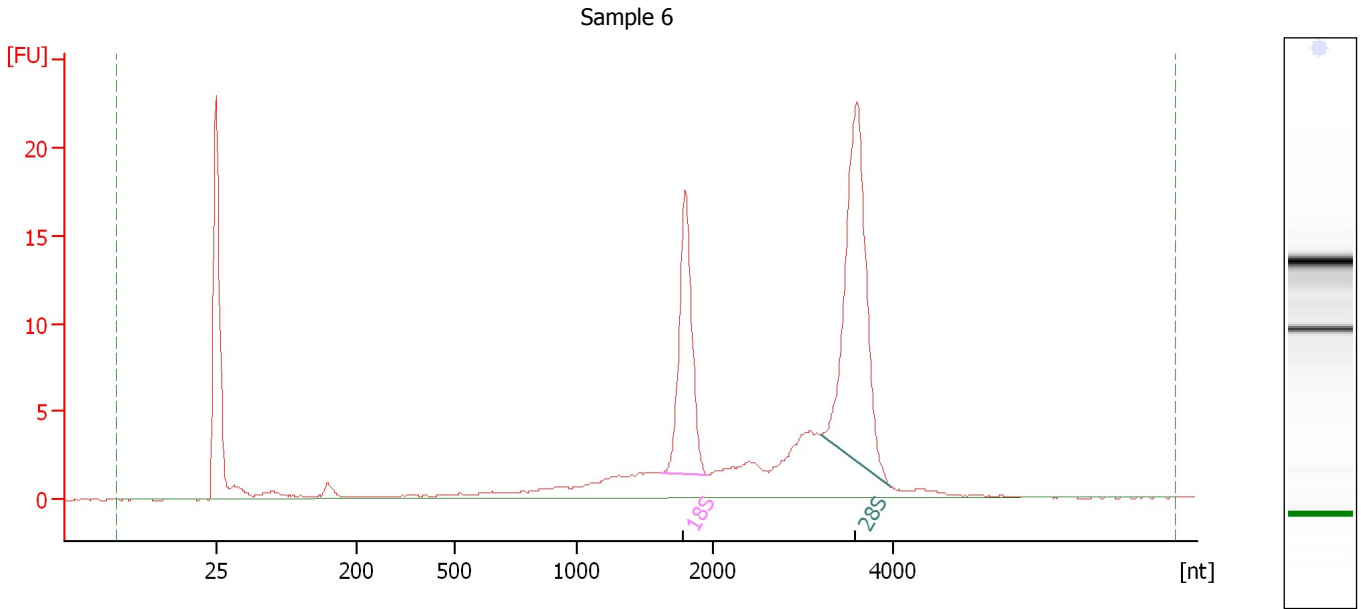
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,662	2,031	8.8	17.6
28S	3,278	4,138	14.2	28.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area:	133.1	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	659 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 9.10

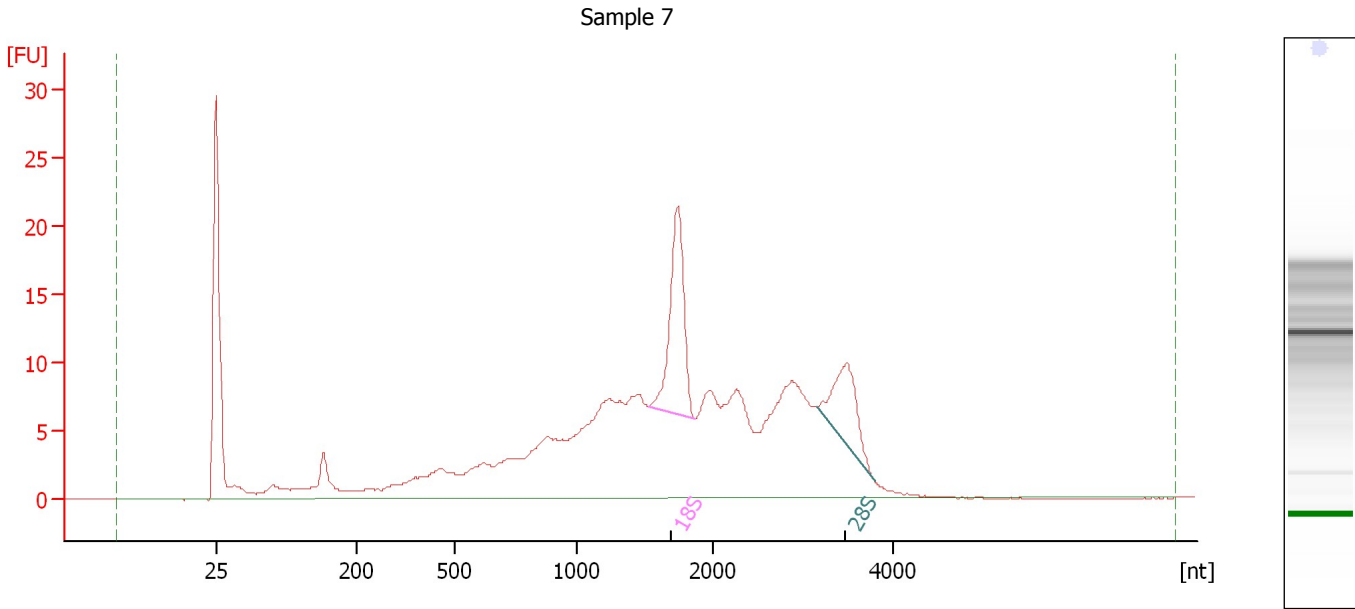
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,618	1,964	24.1	18.1
28S	3,206	3,979	42.0	31.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area:	305.1	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	1,512 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.5	Result Flagging Label:	RIN: 5.70

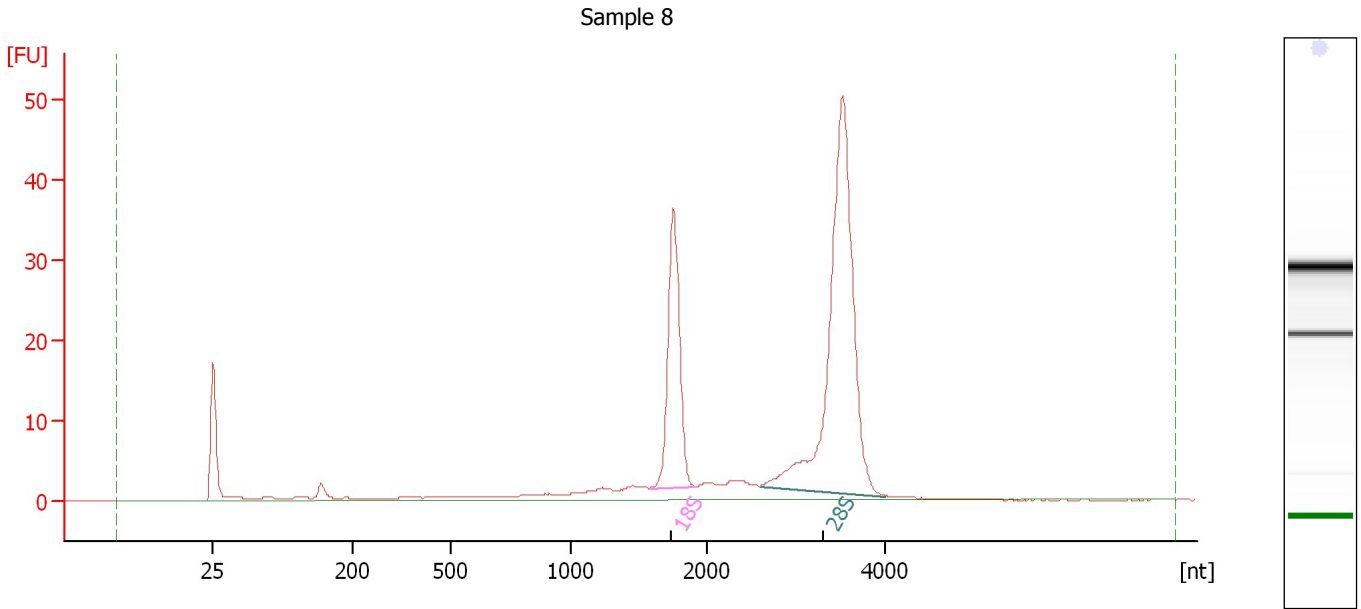
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,531	1,869	24.9	8.2
28S	3,170	3,801	13.5	4.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	232.0	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	1,149 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN:10

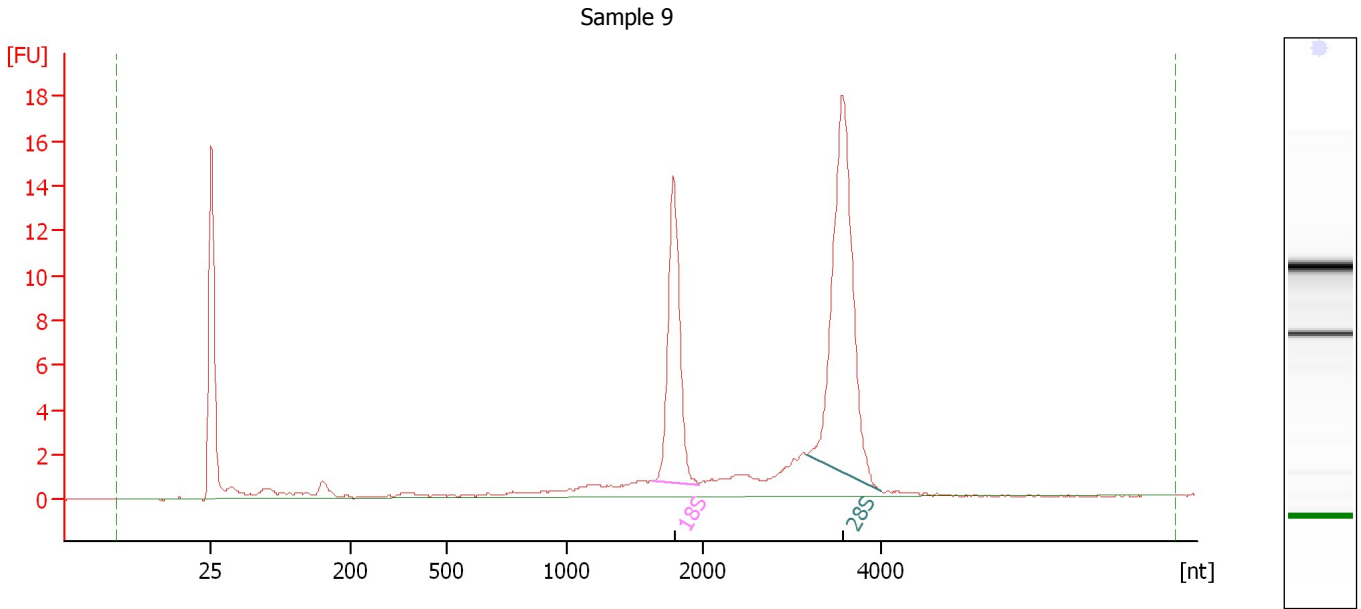
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,567	1,915	47.1	20.3
28S	2,602	4,002	115.9	50.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	87.8	RNA Integrity Number (RIN):	9.7 (B.02.08)
RNA Concentration:	435 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.70

Fragment table for sample 9 : Sample 9

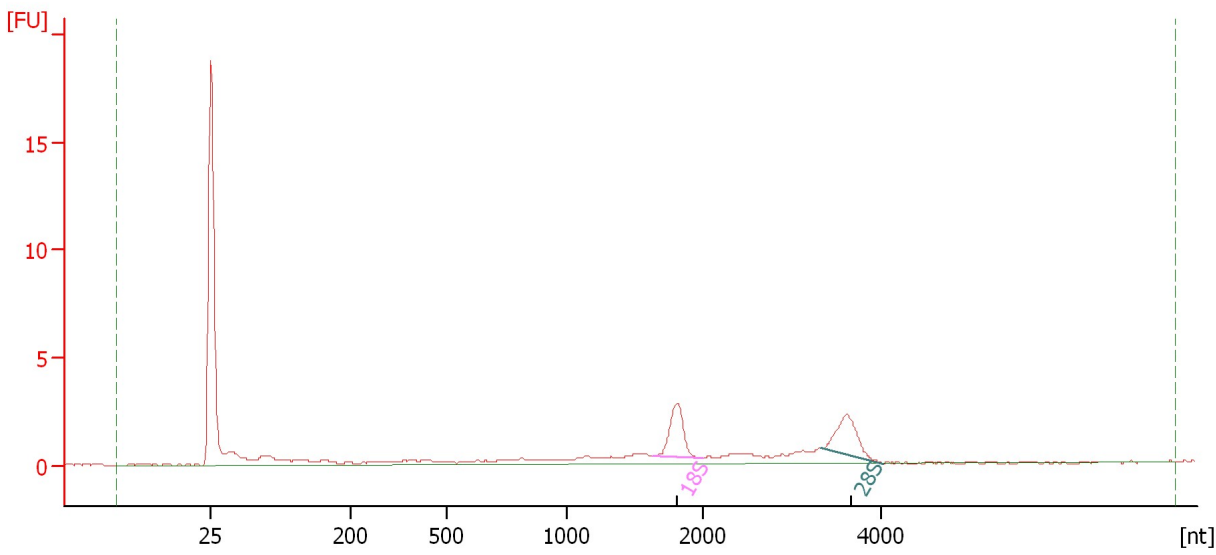
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	1,970	18.6	21.2
28S	3,168	4,009	34.0	38.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

RNA Area:	28.0	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	139 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 8.40

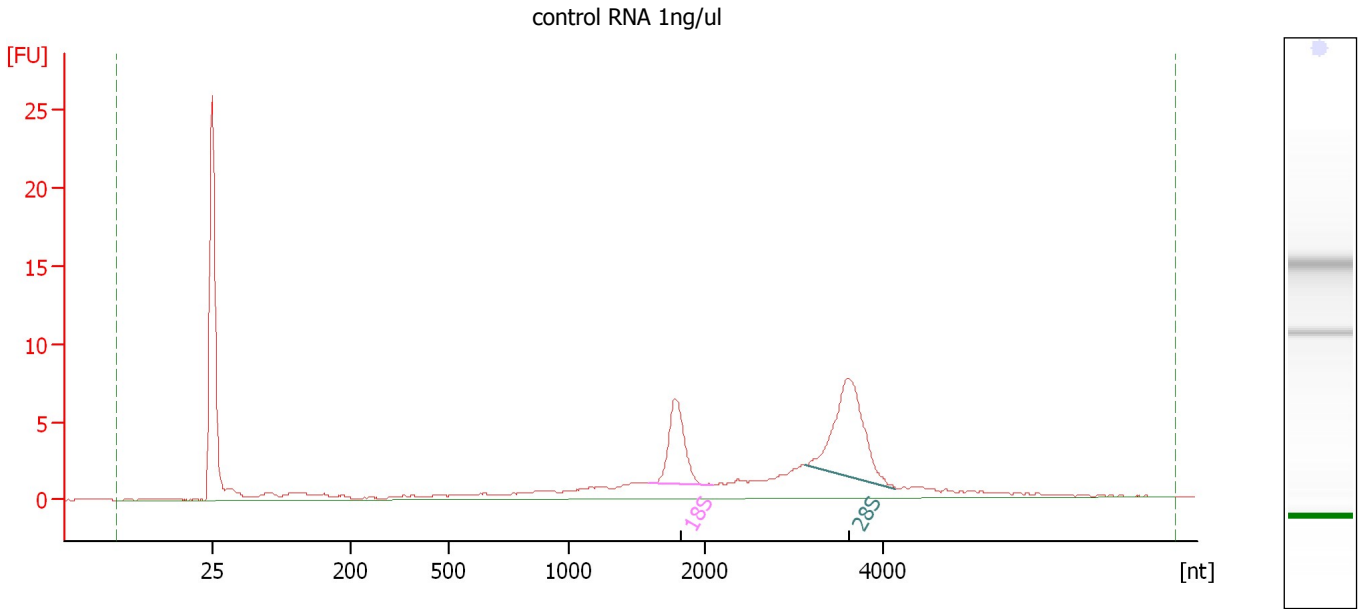
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,628	2,015	4.1	14.5
28S	3,337	4,034	3.9	13.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : control RNA 1ng/ul

RNA Area: 84.7 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 420 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 8.60

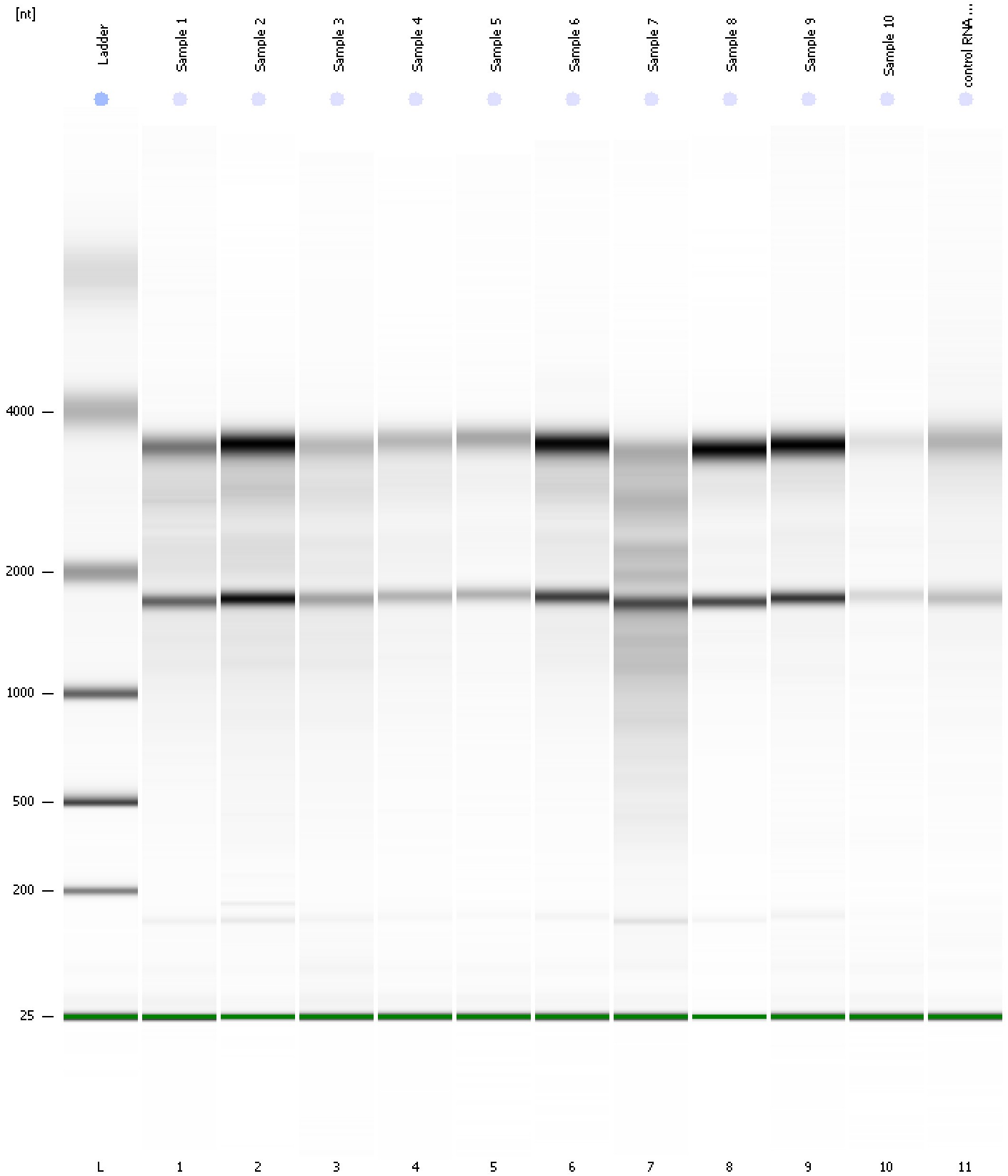
Fragment table for sample 11 : control RNA 1ng/ul

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,590	2,099	10.2	12.0
28S	3,118	4,150	18.6	22.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Gel Image

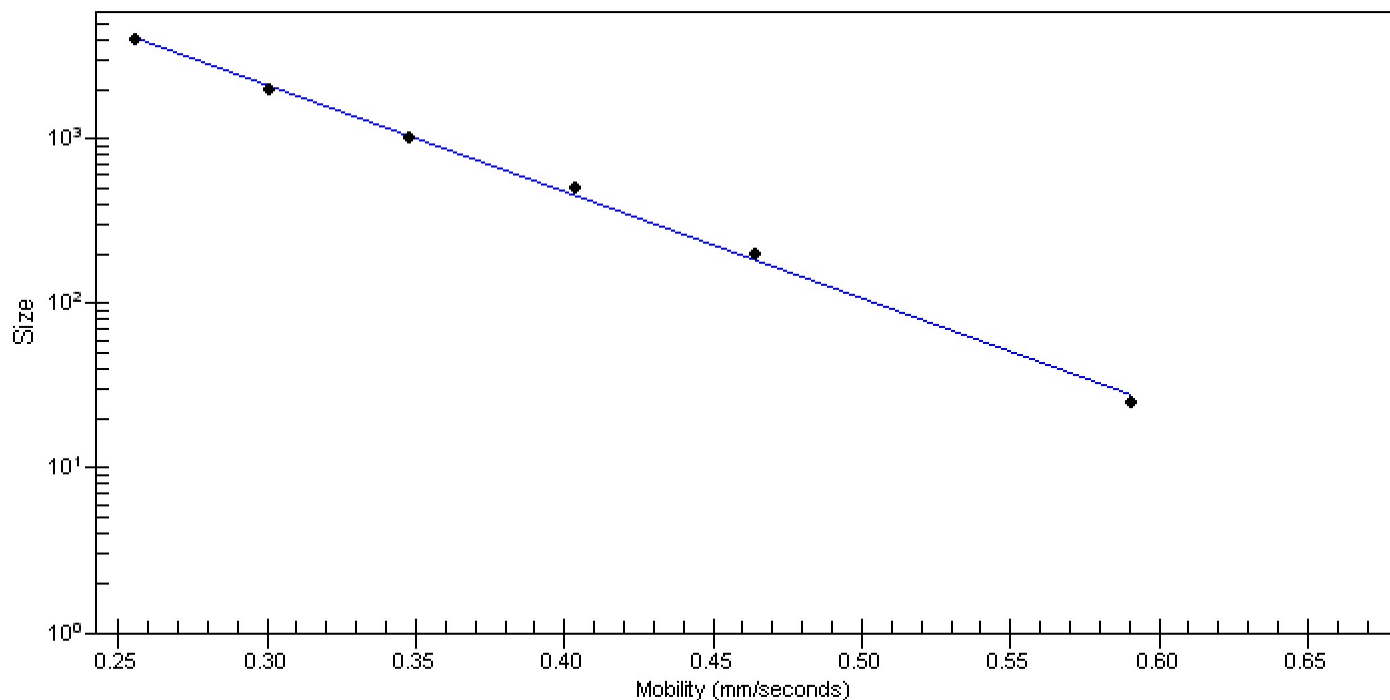


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
Modified: 10/23/2015 3:26:39 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad

Created: 10/23/2015 3:04:38 PM
 Modified: 10/23/2015 3:26:39 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		10/23/2015 3:26:38 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-10-23\2015-10-23_003.xad)		Instrument	Run		10/23/2015 3:04:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/23/2015 3:04:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/23/2015 3:04:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/23/2015 3:04:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/23/2015 3:04:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/23/2015 3:04:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/23/2015 3:04:43 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1