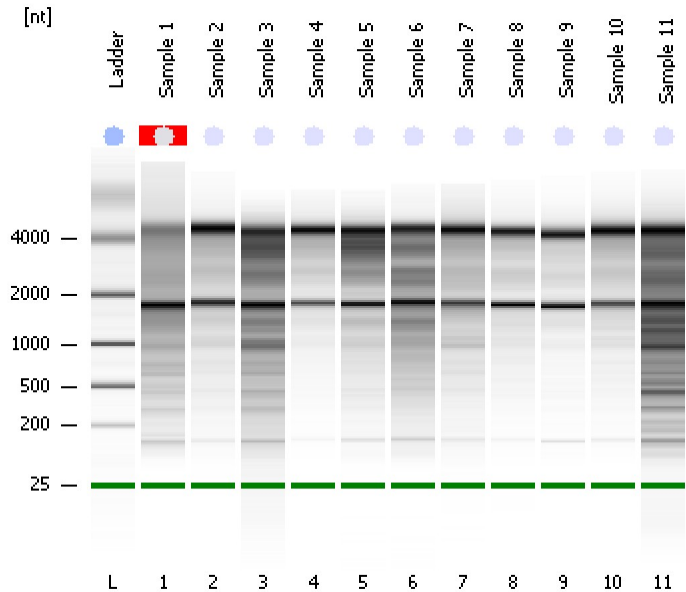


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electrophoresis File Run Summary



Instrument Information:

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

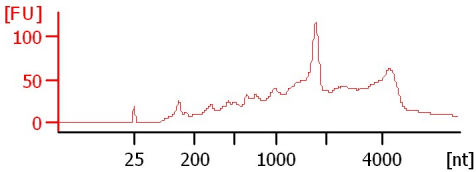
Assay Information:

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)
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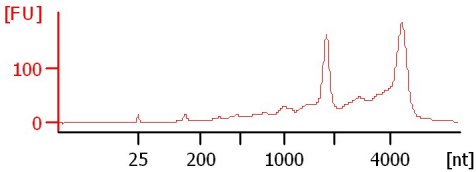
Chip Information:

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

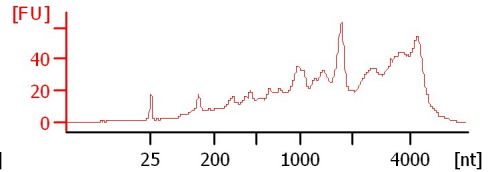
Sample 1
RIN: N/A



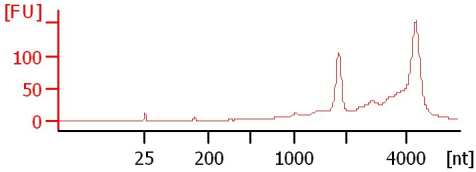
Sample 2
RIN: 7.50



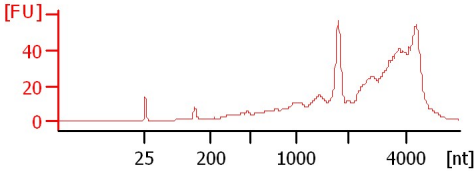
Sample 3
RIN: 4.20



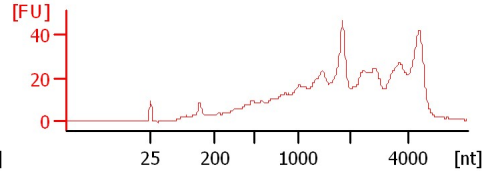
Sample 4
RIN: 8.40



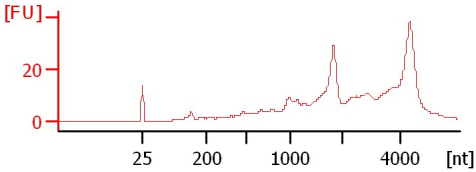
Sample 5
RIN: 5.90



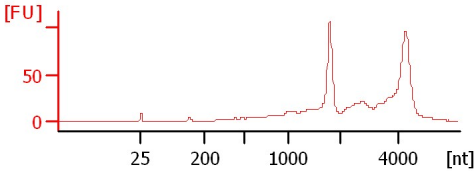
Sample 6
RIN: 5.10



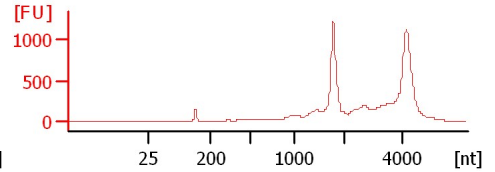
Sample 7
RIN: 7.50



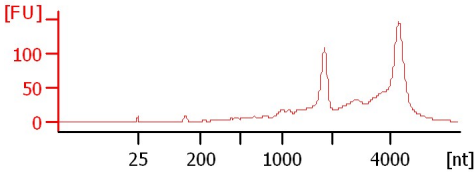
Sample 8
RIN: 8.20



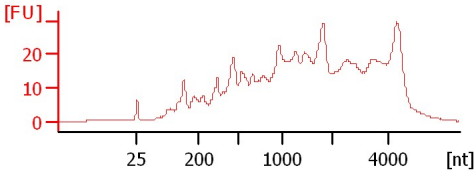
Sample 9
RIN: 8.40



Sample 10
RIN: 8.20



Sample 11
RIN: 3.90



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
 Modified: 3/10/2015 5:20:25 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN N/A	
Sample 2		✓	RIN: 7.50	
Sample 3		✓	RIN: 4.20	
Sample 4		✓	RIN: 8.40	
Sample 5		✓	RIN: 5.90	
Sample 6		✓	RIN: 5.10	
Sample 7		✓	RIN: 7.50	
Sample 8		✓	RIN: 8.20	
Sample 9		✓	RIN: 8.40	
Sample 10		✓	RIN: 8.20	
Sample 11		✓	RIN: 3.90	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 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

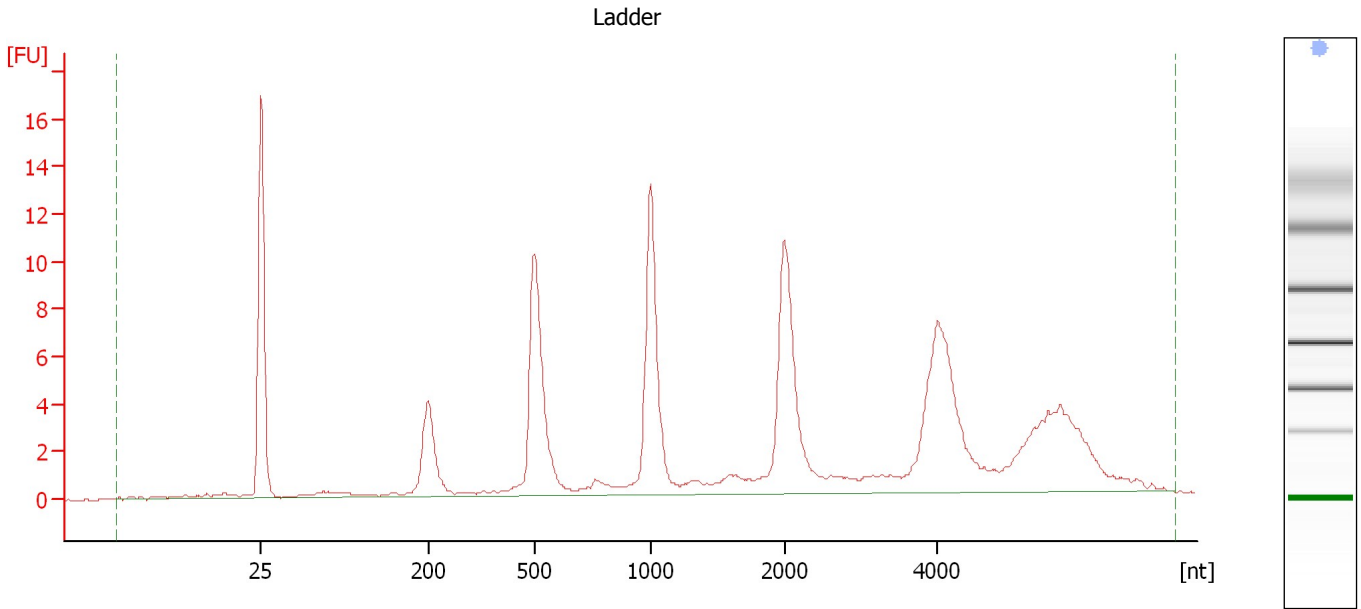
Ladder

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\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary



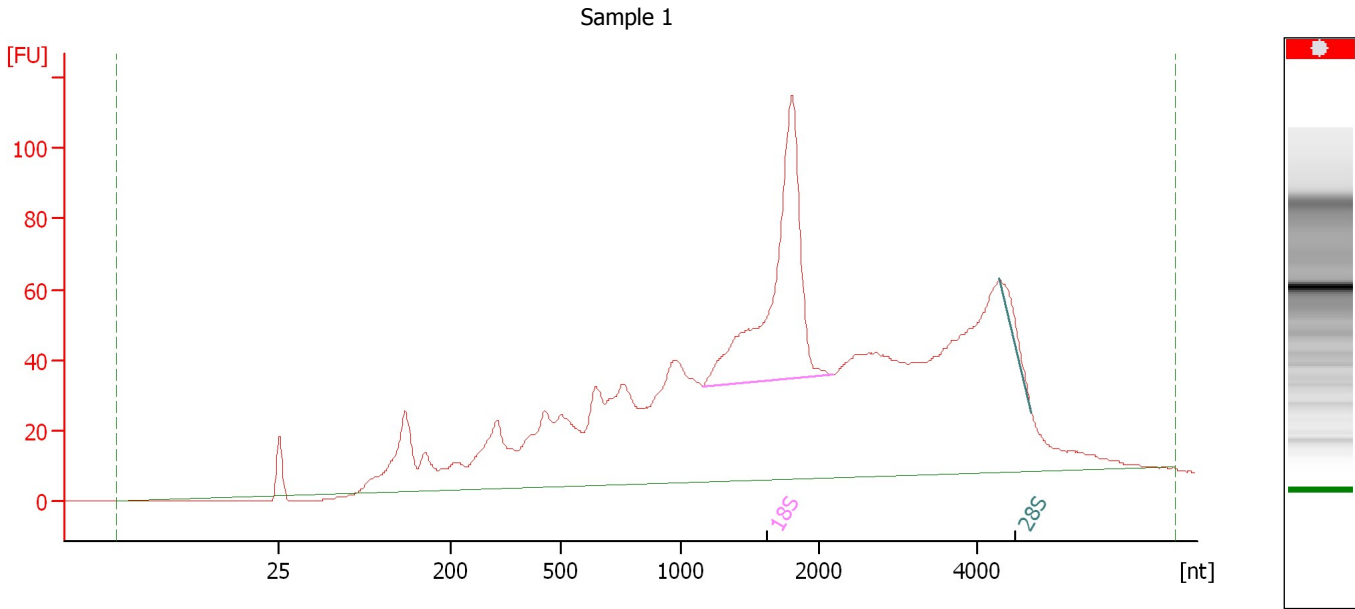
Overall Results for Ladder

RNA Area:	126.6	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\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
 Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Sample 1

RNA Area:	1,887.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	14,904 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

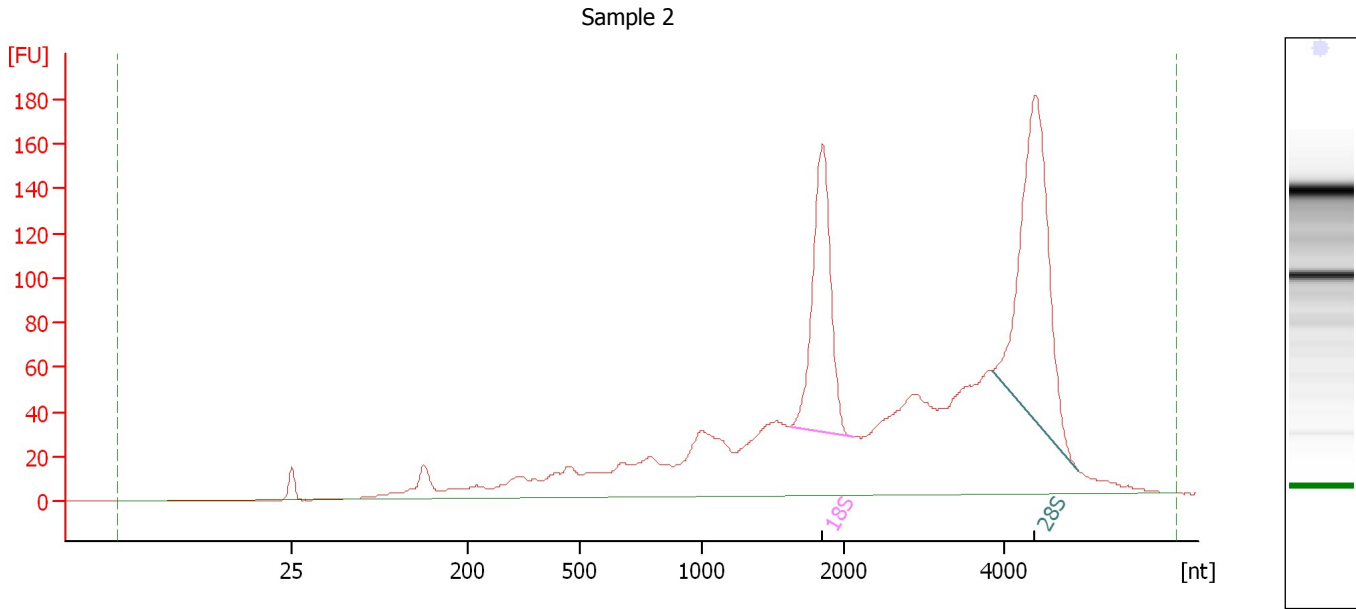
Fragment table for sample 1 : Sample 1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,163	2,164	235.4	12.5
28S	4,277	4,684	9.4	0.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 2

RNA Area:	2,039.2	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	16,105 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 7.50

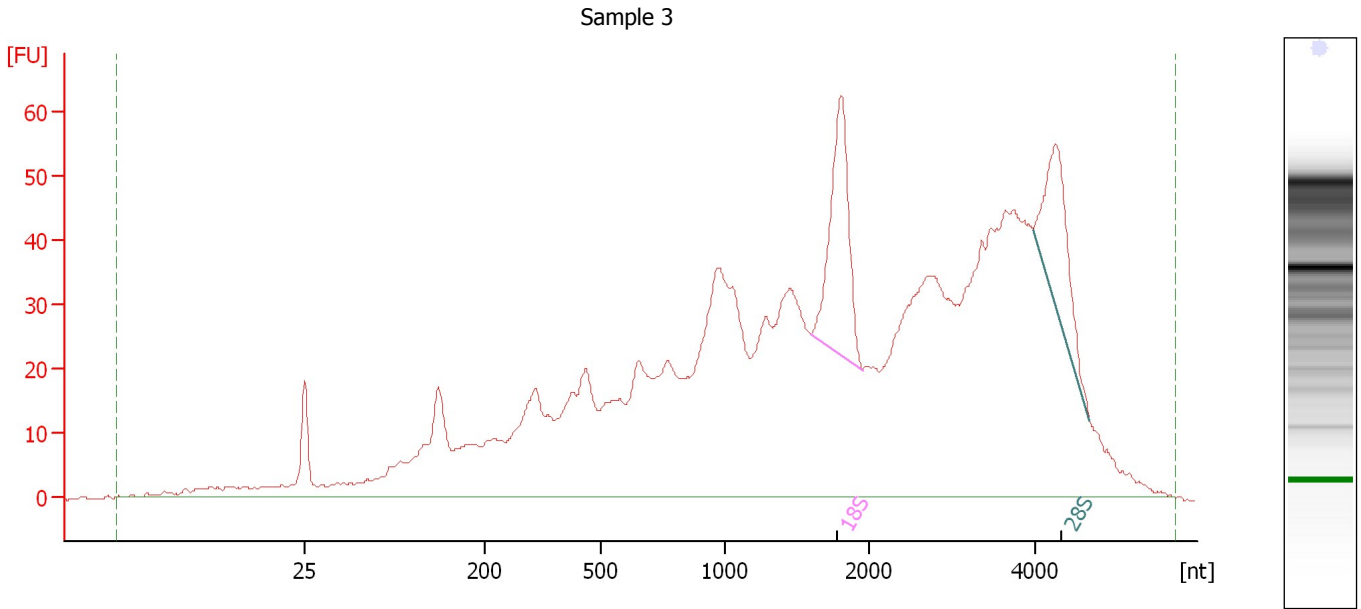
Fragment table for sample 2 : Sample 2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	2,117	239.5	11.7
28S	3,843	4,919	350.3	17.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 3

RNA Area:	1,646.6	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	13,004 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 4.20

Fragment table for sample 3 : Sample 3

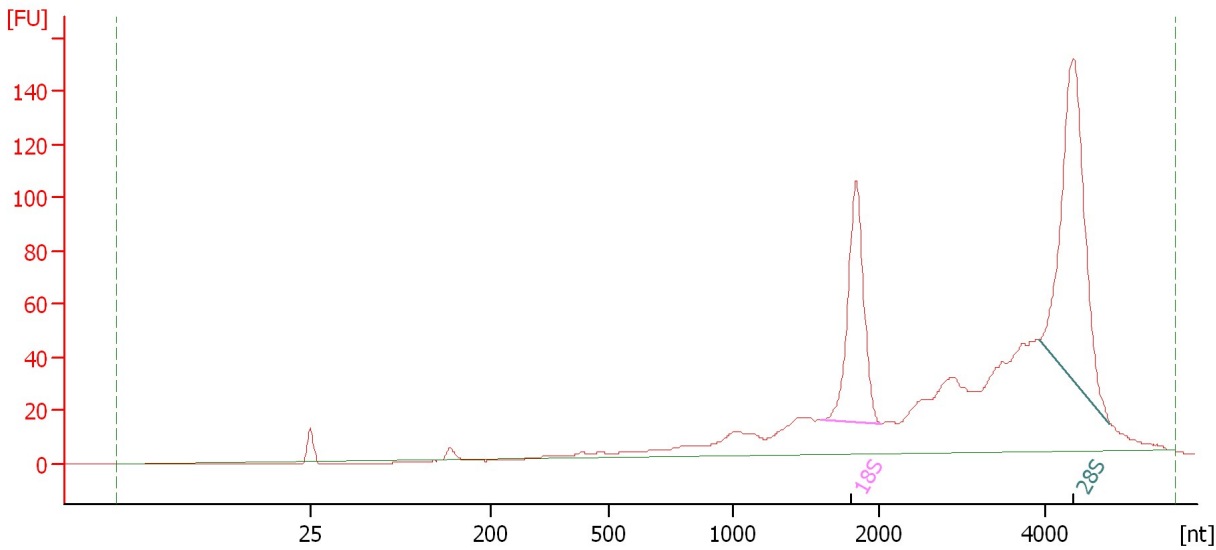
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,953	74.0	4.5
28S	3,994	4,668	48.3	2.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

RNA Area:	1,046.3	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	8,263 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.40

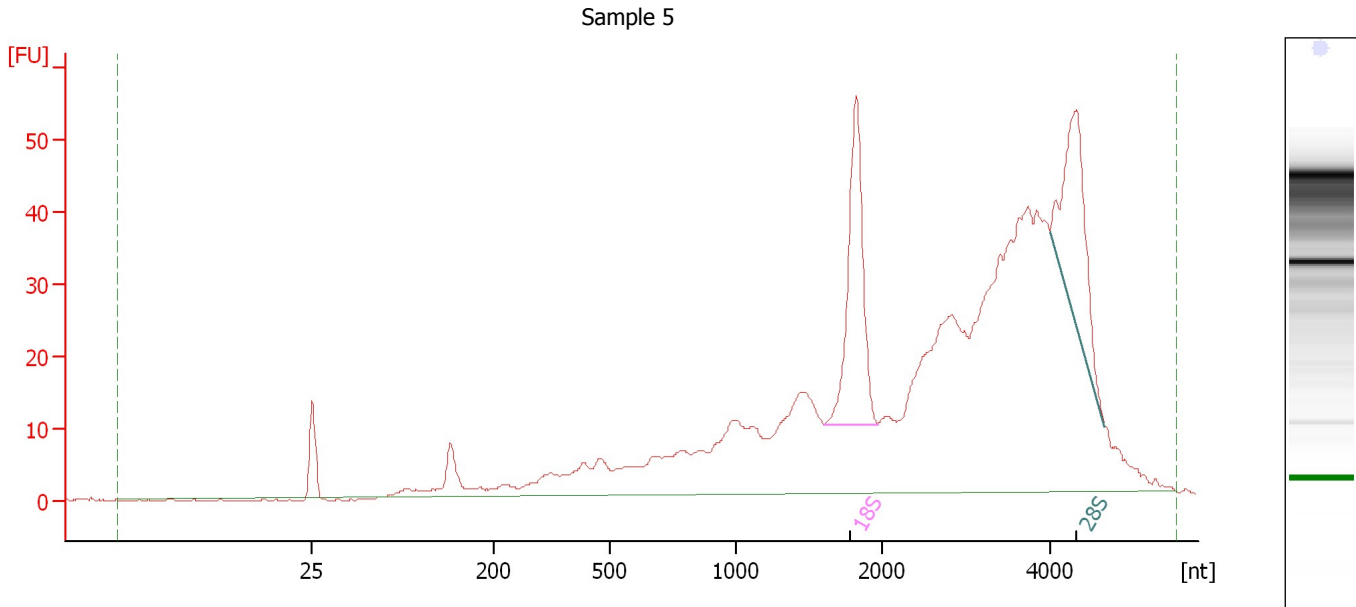
Fragment table for sample 4 : Sample 4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,599	2,013	142.8	13.7
28S	3,916	4,765	234.4	22.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 5

RNA Area: 810.2 RNA Integrity Number (RIN): 5.9 (B.02.08)
RNA Concentration: 6,398 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 5.90

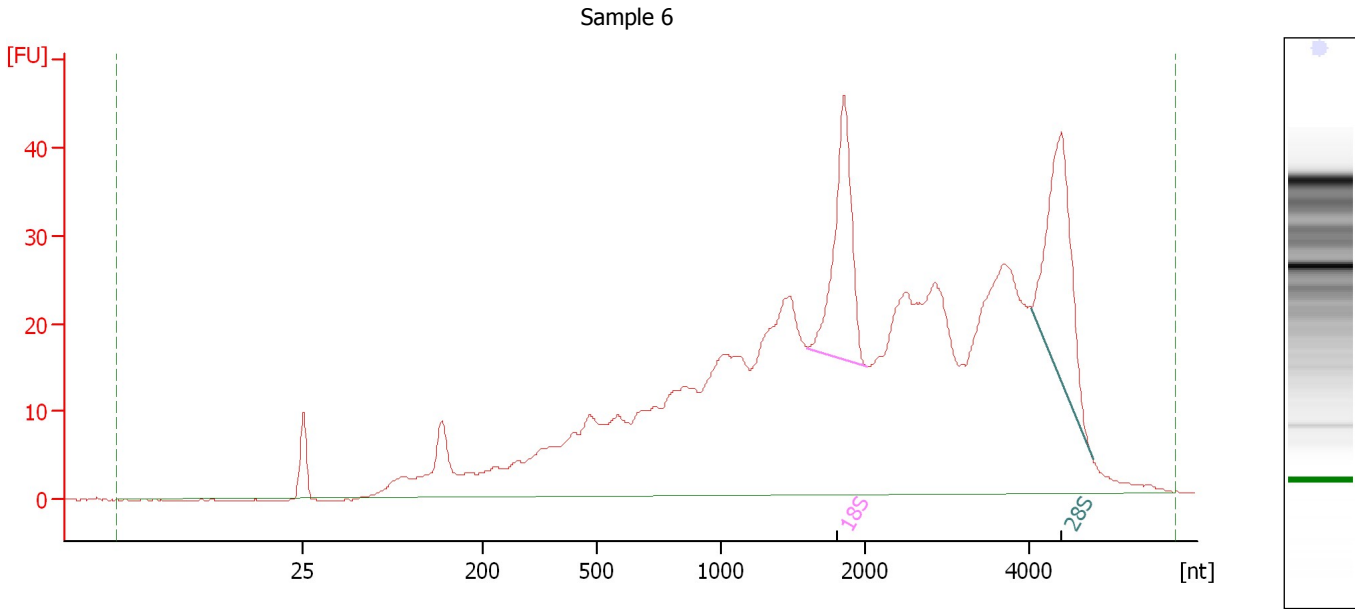
Fragment table for sample 5 : Sample 5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,600	1,964	65.1	8.0
28S	4,004	4,658	53.2	6.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 6

RNA Area: 914.8 RNA Integrity Number (RIN): 5.1 (B.02.08)
RNA Concentration: 7,225 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 5.10

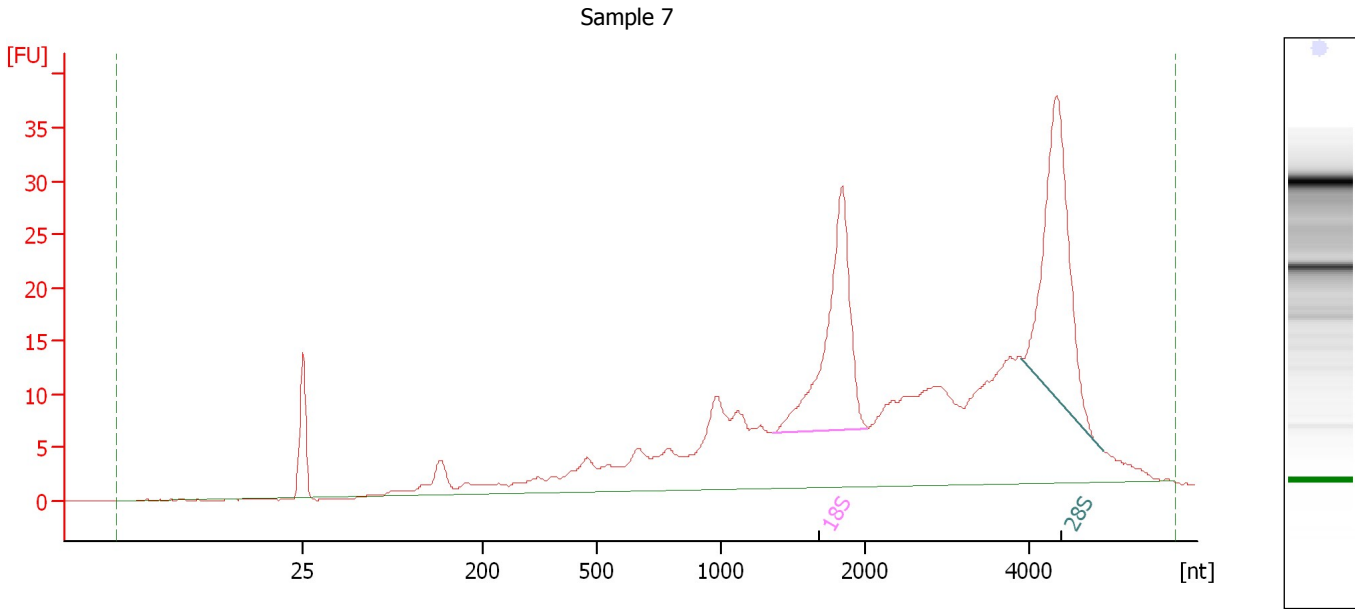
Fragment table for sample 6 : Sample 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,598	2,020	51.3	5.6
28S	4,025	4,767	55.9	6.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Sample 7

RNA Area: 427.3 RNA Integrity Number (RIN): 7.5 (B.02.08)
RNA Concentration: 3,374 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 7.50

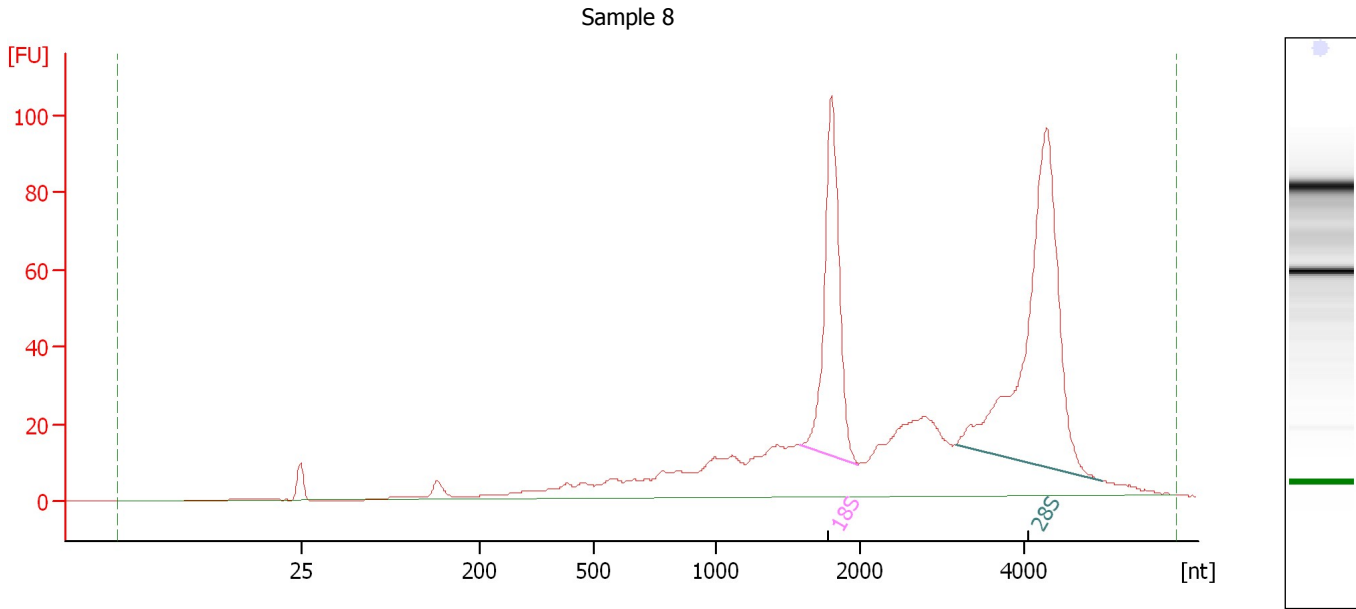
Fragment table for sample 7 : Sample 7

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,361	2,020	54.5	12.7
28S	3,908	4,884	59.1	13.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 8

RNA Area:	878.2	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	6,936 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 8.20

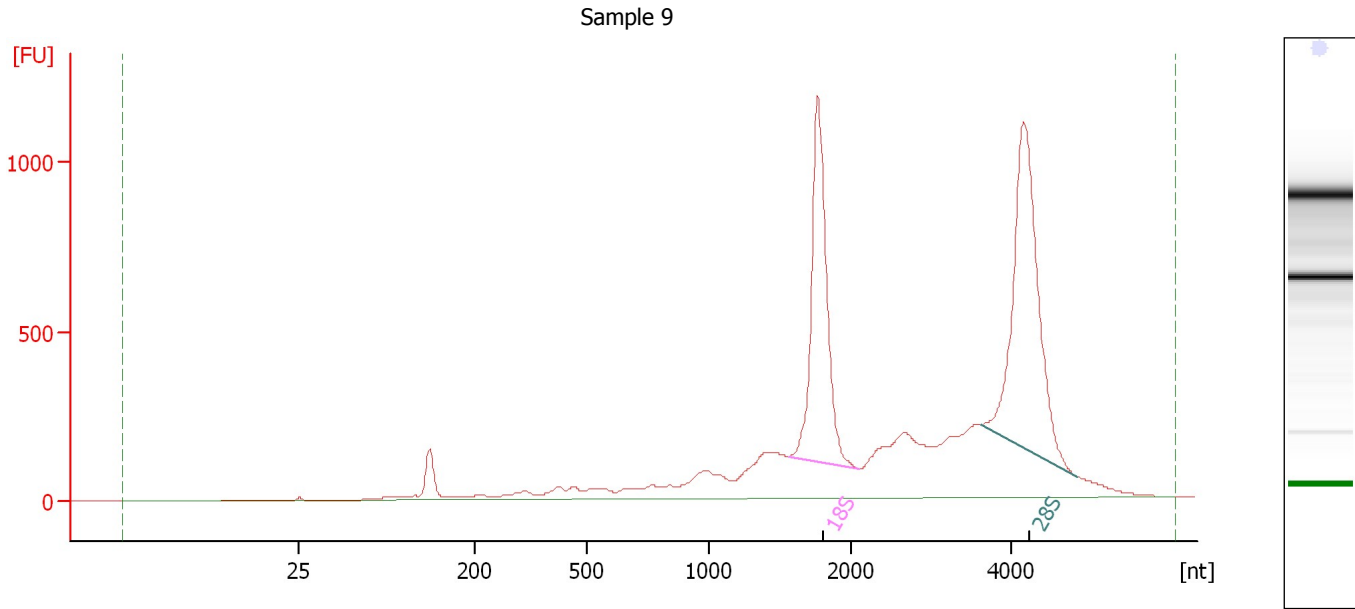
Fragment table for sample 8 : Sample 8

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,587	1,988	138.3	15.7
28S	3,183	4,963	246.8	28.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Sample 9

RNA Area:	9,052.4	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	71,492 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.40

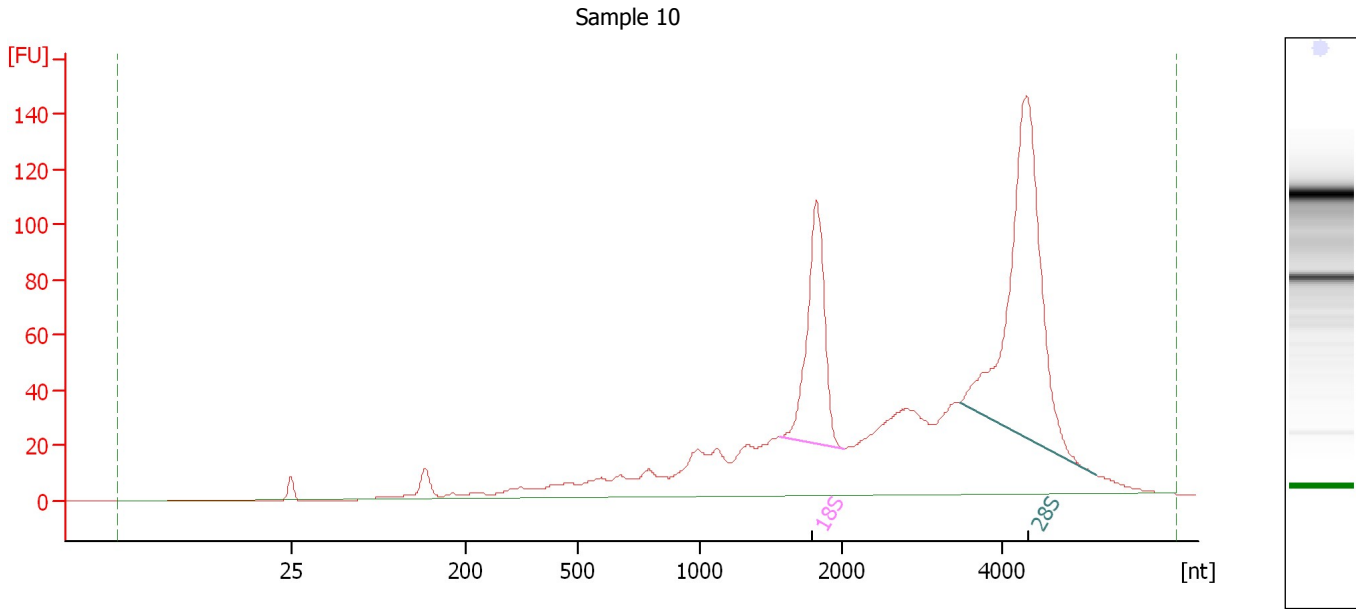
Fragment table for sample 9 : Sample 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,558	2,106	1,667.4	18.4
28S	3,625	4,813	2,075.8	22.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Sample 10

RNA Area:	1,395.3	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	11,019 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 8.20

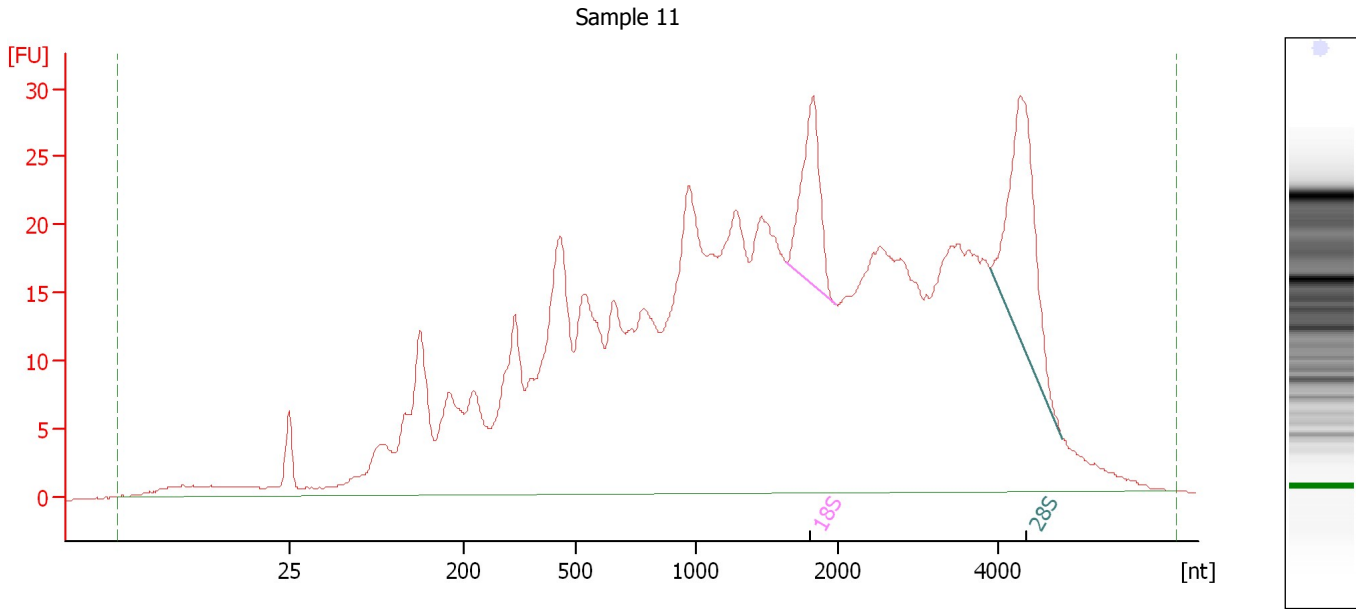
Fragment table for sample 10 : Sample 10

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,568	2,023	156.7	11.2
28S	3,473	5,176	340.8	24.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Sample 11

RNA Area: 979.6 RNA Integrity Number (RIN): 3.9 (B.02.08)
RNA Concentration: 7,736 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 3.90

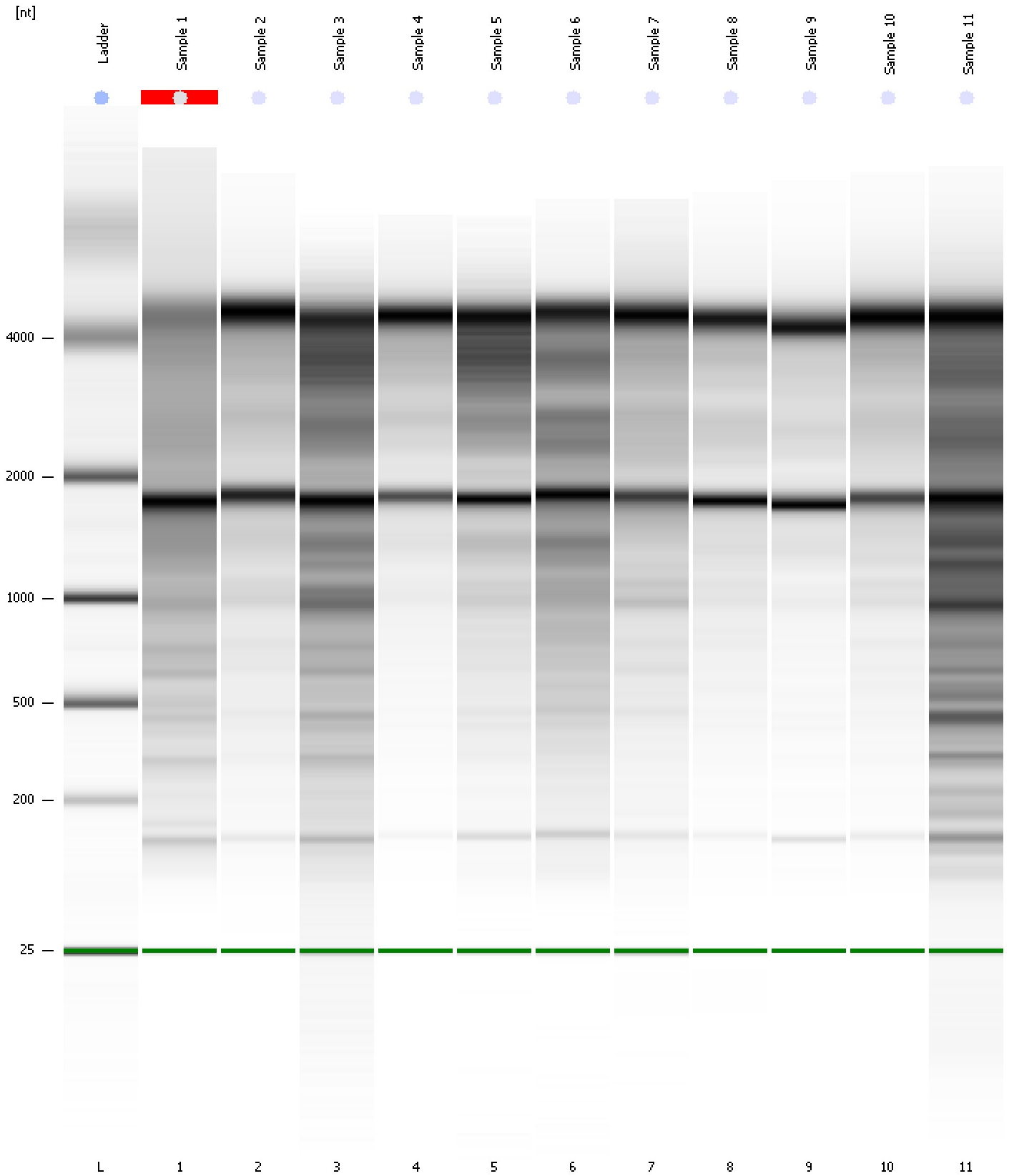
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,641	1,989	25.5	2.6
28S	3,917	4,799	40.6	4.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
Modified: 3/10/2015 5:20:25 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad

Created: 3/10/2015 4:51:37 PM
 Modified: 3/10/2015 5:20:25 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		3/10/2015 7:14:32 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-10\2015-03-10_005.xad)		Instrument	Run		3/10/2015 6:51:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/10/2015 6:51:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/10/2015 6:51:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/10/2015 6:51:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/10/2015 6:51:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/10/2015 6:51:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/10/2015 6:51:42 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1