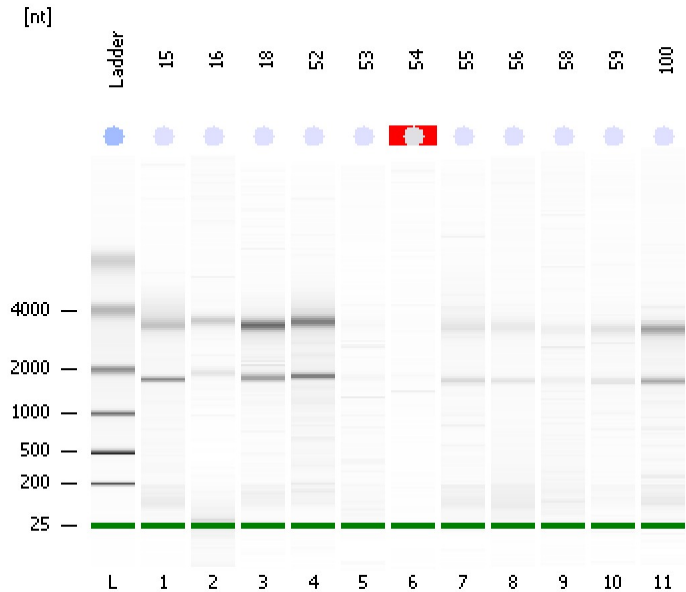


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

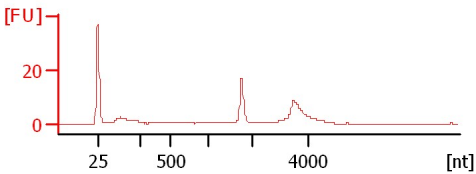
Assay Information:

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.

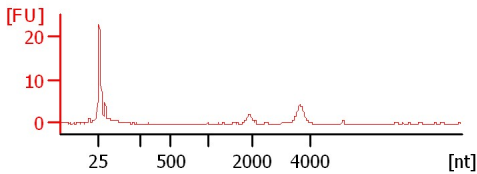
Chip Information:

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

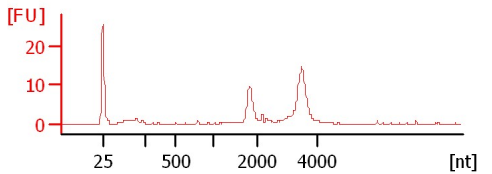
15
QC419
RIN: 9.10



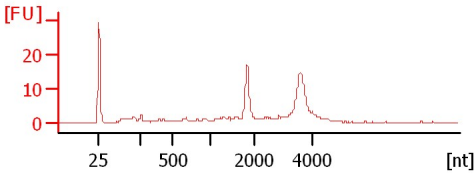
16
QC419
RIN: 9.30



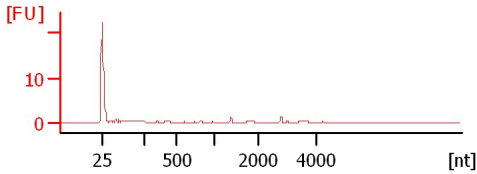
18
QC419
RIN: 9.60



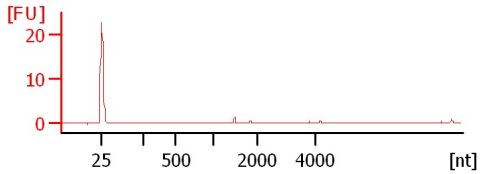
52
QC419
RIN: 8.70



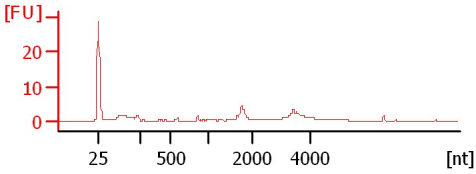
53
QC419
RIN: 6.20



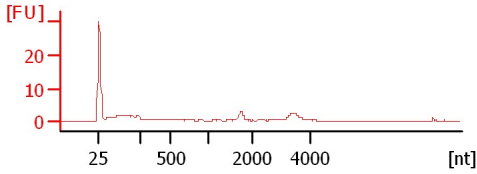
54
QC419
RIN N/A



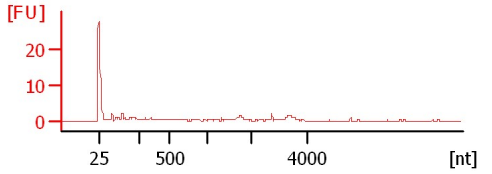
55
QC419
RIN: 7.90



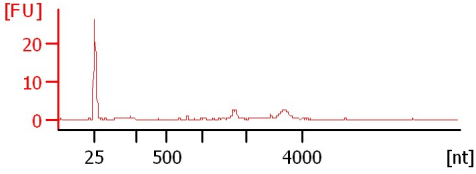
56
QC419
RIN: 7.90



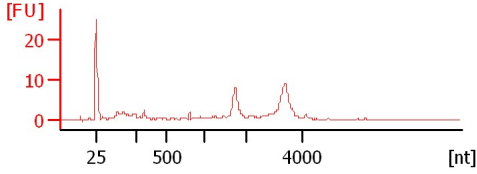
58
QC419
RIN: 4.70



59
QC419
RIN: 8.30



100
QC419
RIN: 8.80



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
 Modified: 4/19/2019 11:02:28 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
15	QC419	✓	RIN: 9.10	
16	QC419	✓	RIN: 9.30	
18	QC419	✓	RIN: 9.60	
52	QC419	✓	RIN: 8.70	
53	QC419	✓	RIN: 6.20	
54	QC419	✓	RIN N/A	
55	QC419	✓	RIN: 7.90	
56	QC419	✓	RIN: 7.90	
58	QC419	✓	RIN: 4.70	
59	QC419	✓	RIN: 8.30	
100	QC419	✓	RIN: 8.80	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

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/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 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

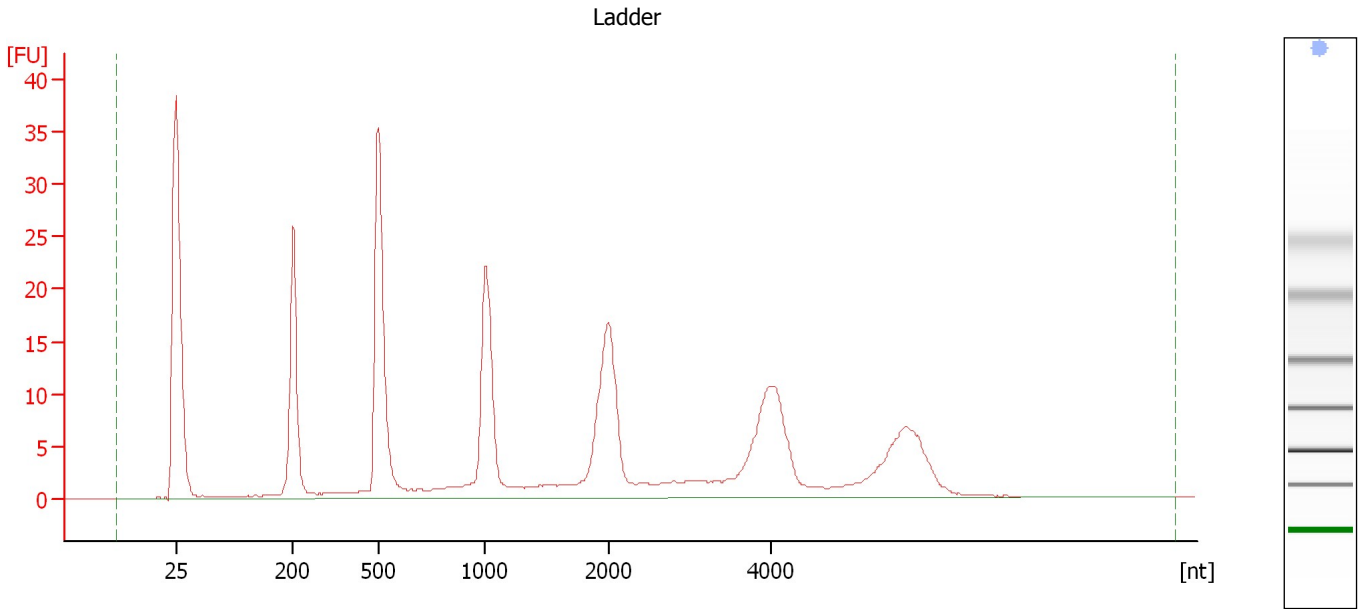
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary



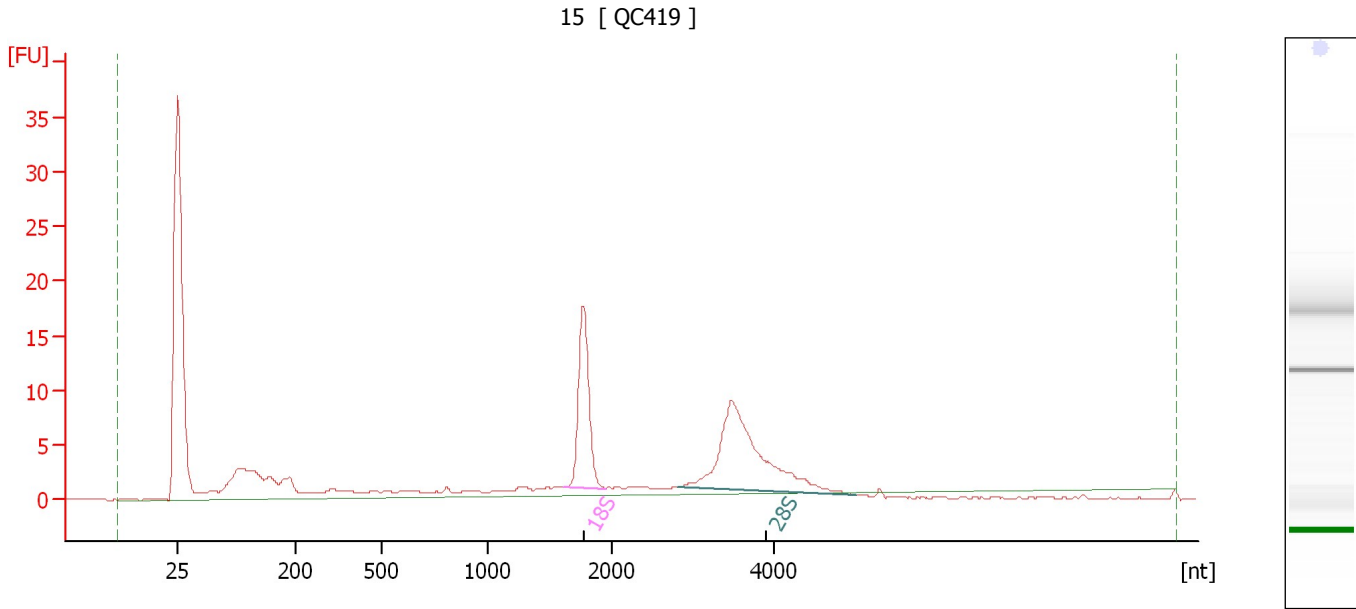
Overall Results for Ladder

RNA Area:	280.9	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 15

RNA Area: 118.1 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 420 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 9.10

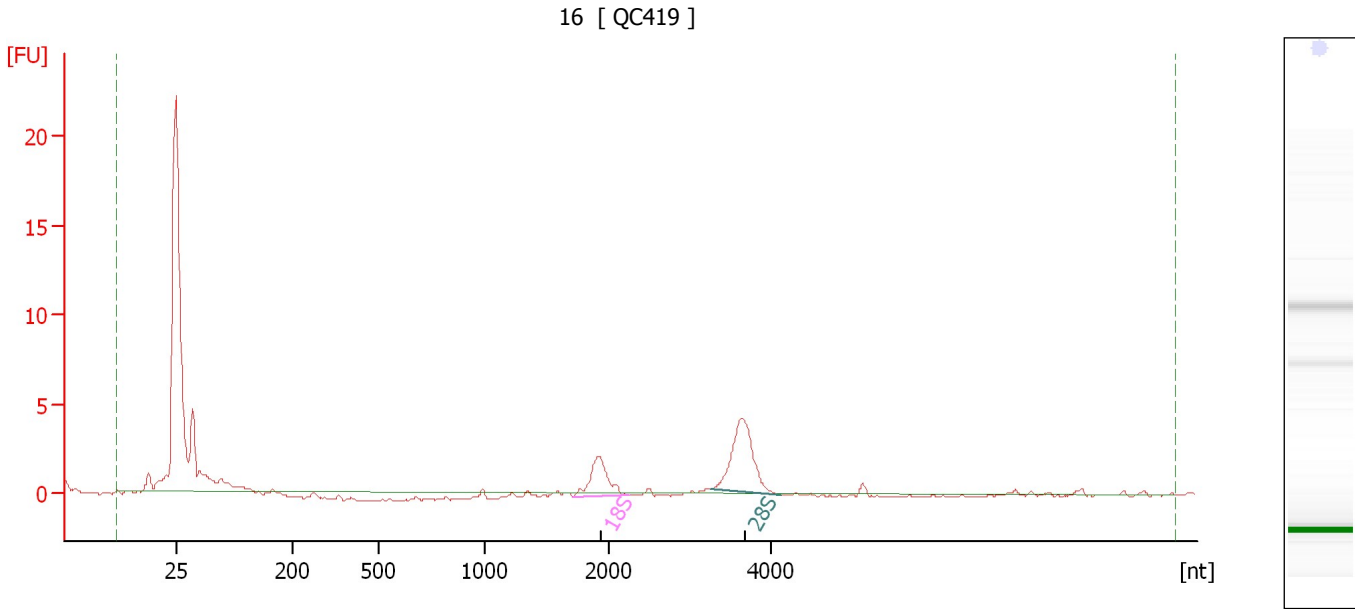
Fragment table for sample 1 : 15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,610	1,948	22.4	18.9
28S	2,815	5,007	37.5	31.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 16

RNA Area:	25.9	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	92 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.30

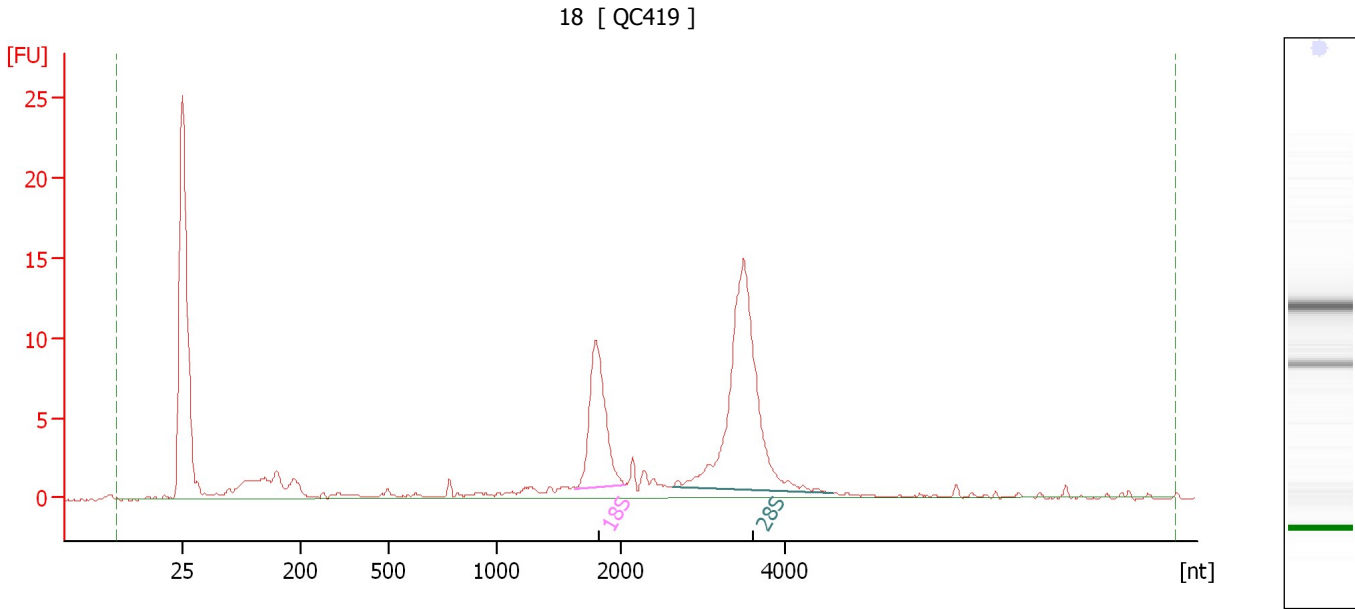
Fragment table for sample 2 : 16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,713	2,250	5.0	19.3
28S	3,263	4,131	9.7	37.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 18

RNA Area:	104.7	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	373 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.3	Result Flagging Label:	RIN: 9.60

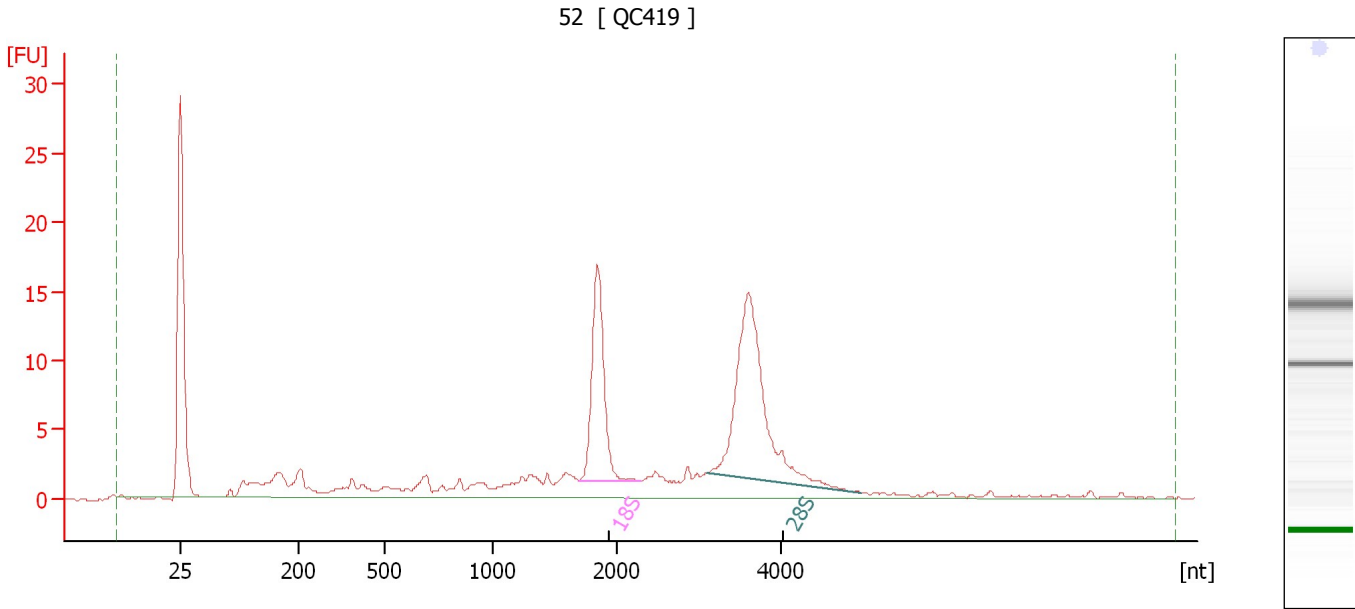
Fragment table for sample 3 : 18

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,635	2,058	18.3	17.5
28S	2,643	4,577	42.2	40.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 52

RNA Area:	147.5	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	525 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.70

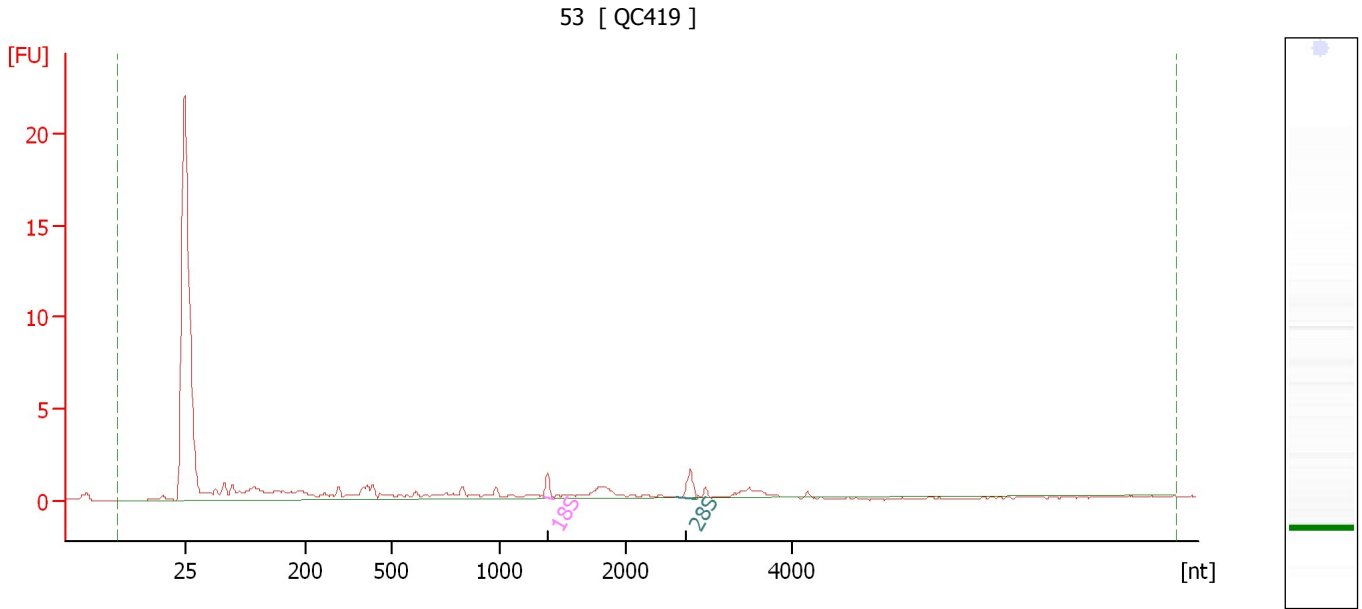
Fragment table for sample 4 : 52

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,701	2,291	23.8	16.1
28S	3,100	4,977	41.3	28.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 53

RNA Area:	26.4	RNA Integrity Number (RIN):	6.2 (B.02.08)
RNA Concentration:	94 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 6.20

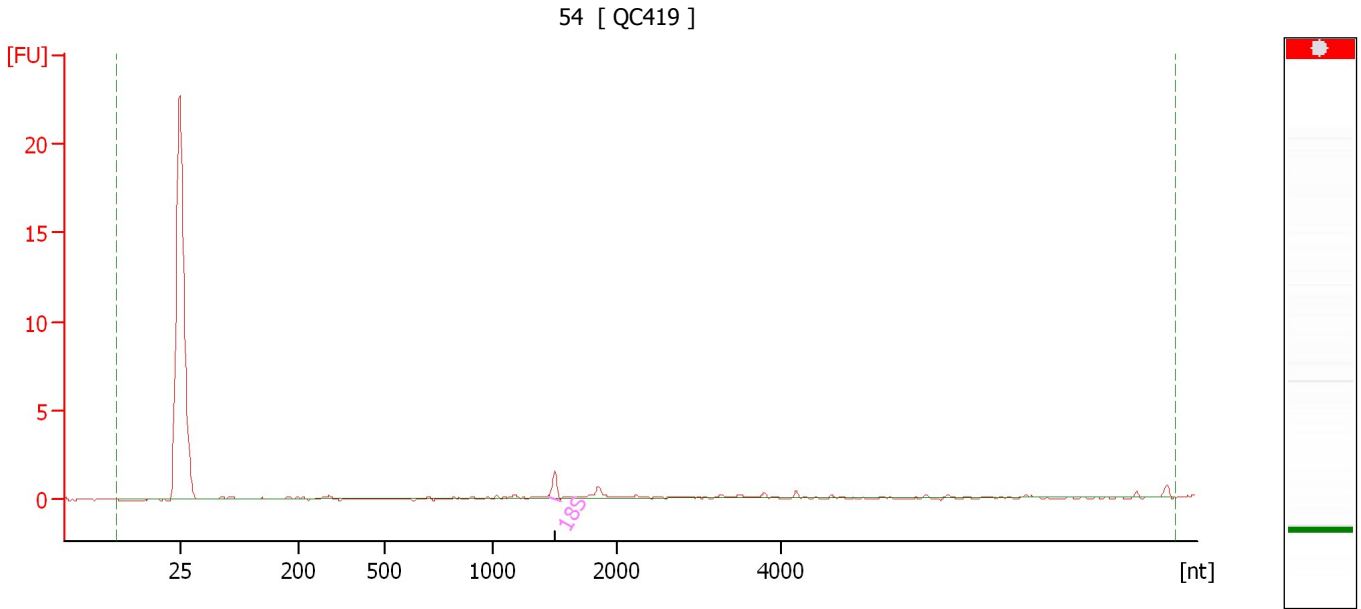
Fragment table for sample 5 : 53

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,339	1,425	0.8	2.9
28S	2,603	2,849	1.2	4.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 54

RNA Area:	6.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	24 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

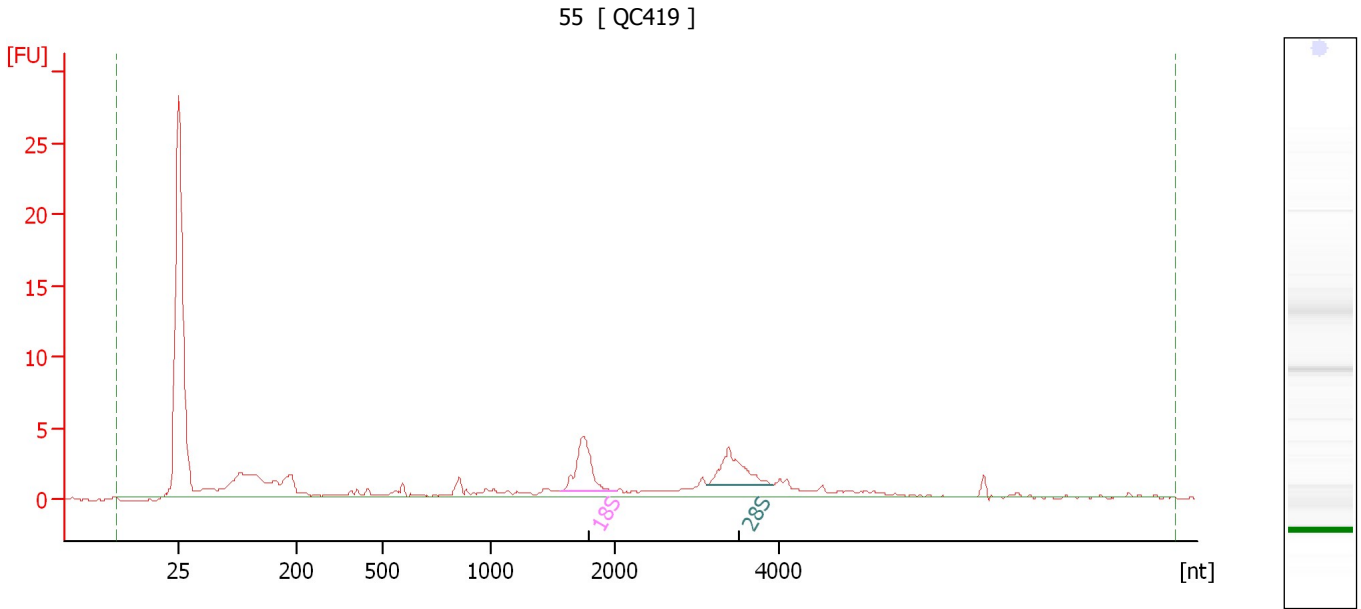
Fragment table for sample 6 : 54

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,460	1,546	1.0	15.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 55

RNA Area: 58.3 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 208 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.8 Result Flagging Label: RIN: 7.90

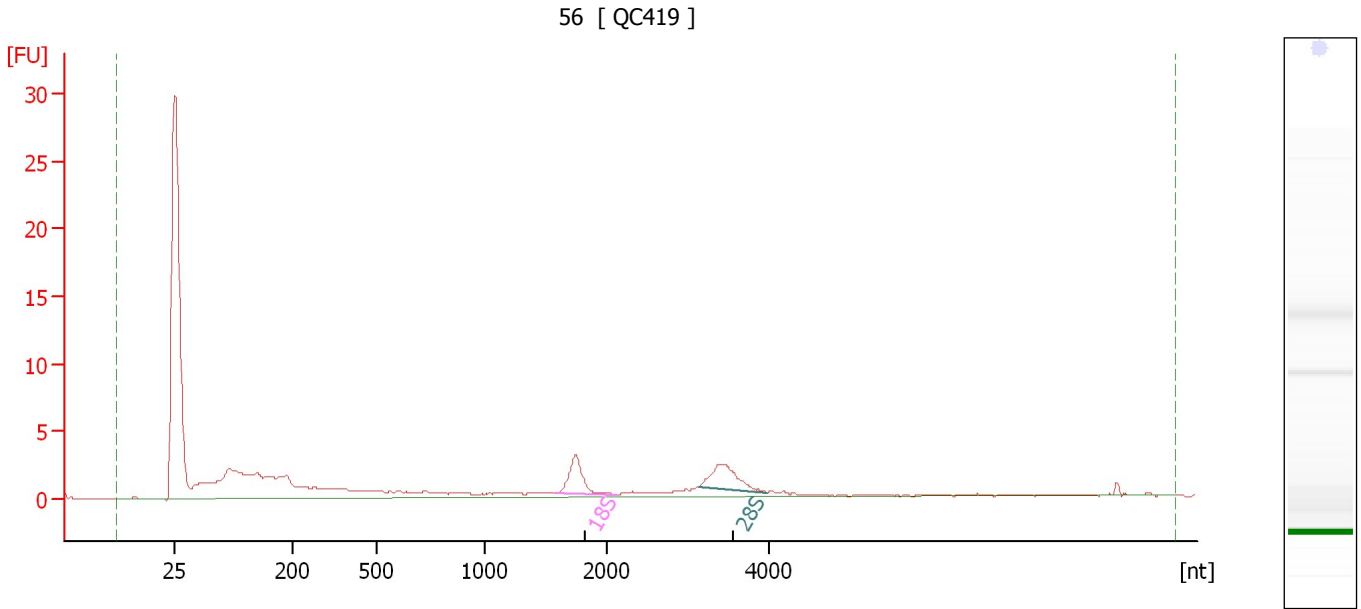
Fragment table for sample 7 : 55

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,570	2,029	7.5	12.9
28S	3,140	3,937	6.2	10.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 56

RNA Area:	68.2	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	243 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.90

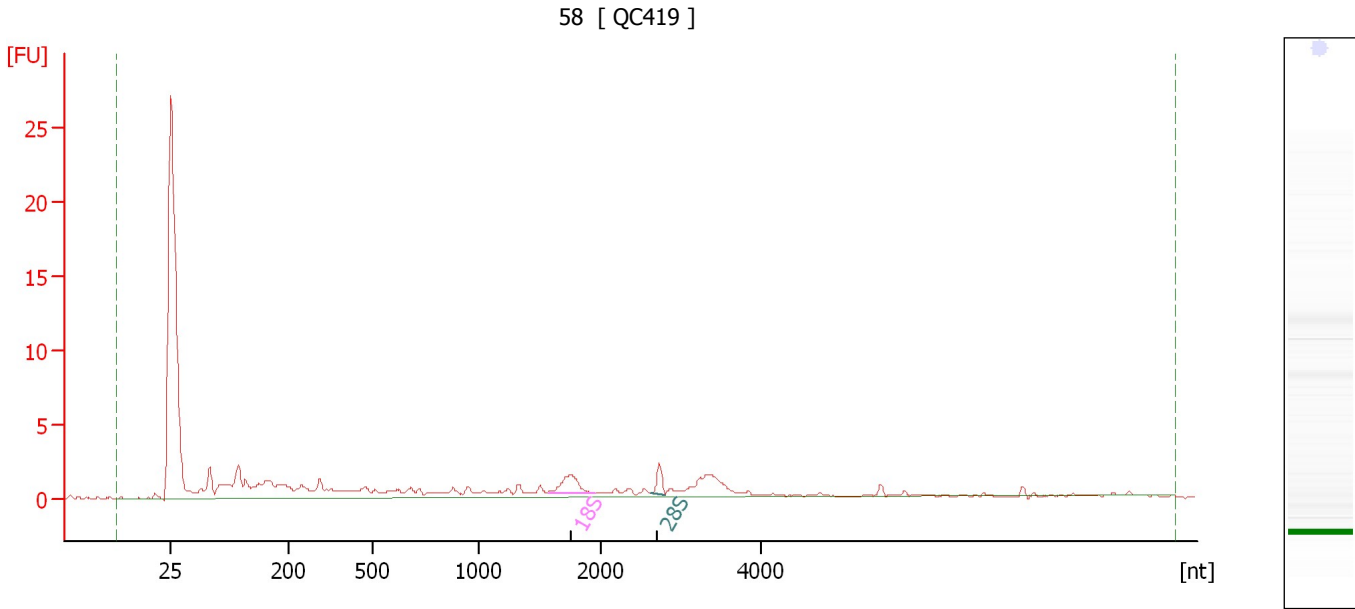
Fragment table for sample 8 : 56

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,580	2,130	5.1	7.4
28S	3,146	3,990	5.4	7.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 58

RNA Area: 51.0 RNA Integrity Number (RIN): 4.7 (B.02.08)
RNA Concentration: 182 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.4 Result Flagging Label: RIN: 4.70

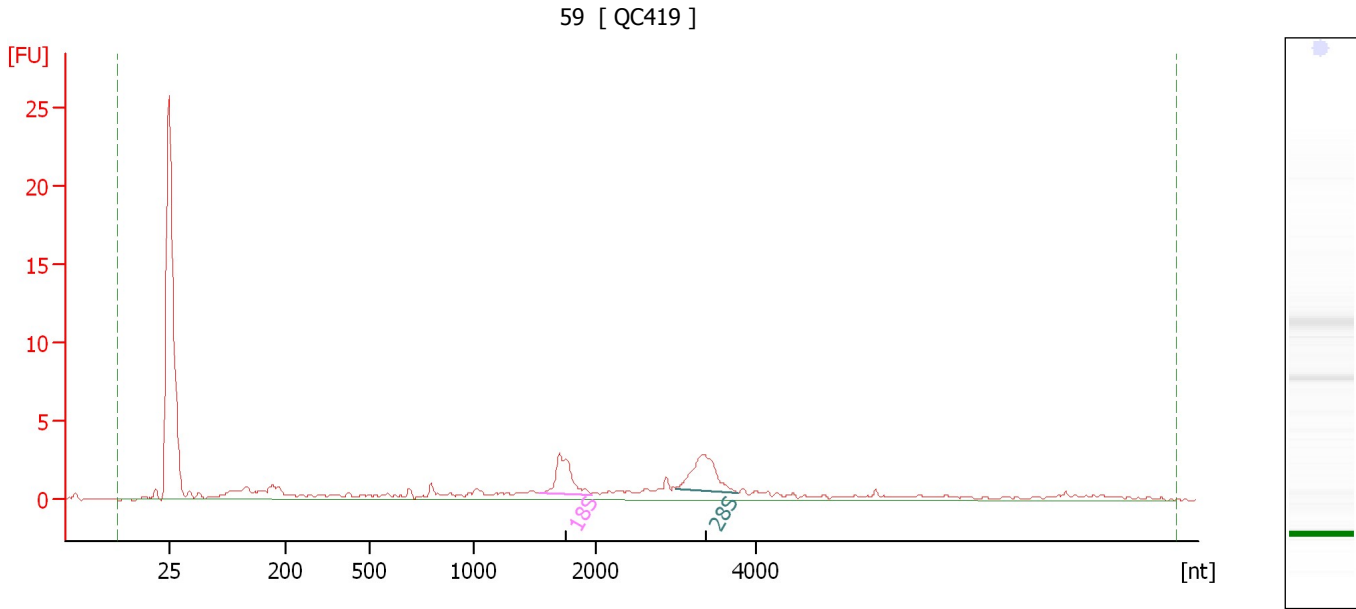
Fragment table for sample 9 : 58

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,575	1,961	2.7	5.2
28S	2,619	2,805	1.2	2.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
 Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 59

RNA Area:	51.9	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	185 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.30

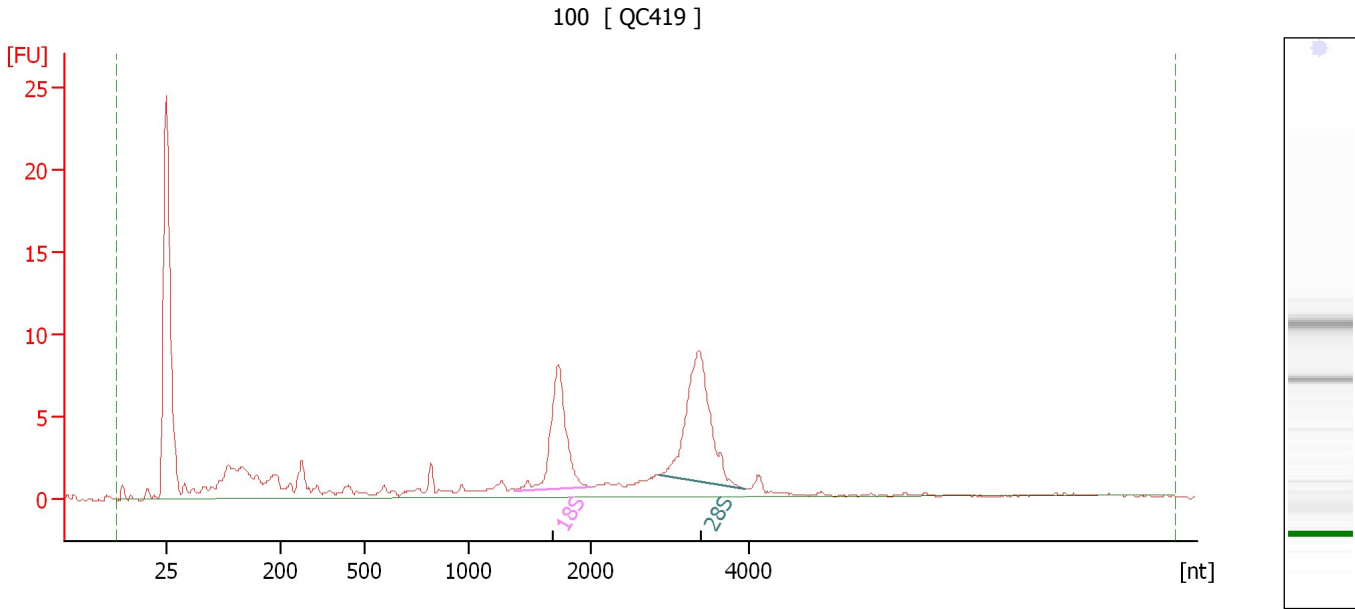
Fragment table for sample 10 : 59

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,535	1,967	5.1	9.9
28S	3,007	3,782	6.2	12.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 100

RNA Area:	105.1	RNA Integrity Number (RIN):	8.8 (B.02.08)
RNA Concentration:	374 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.80

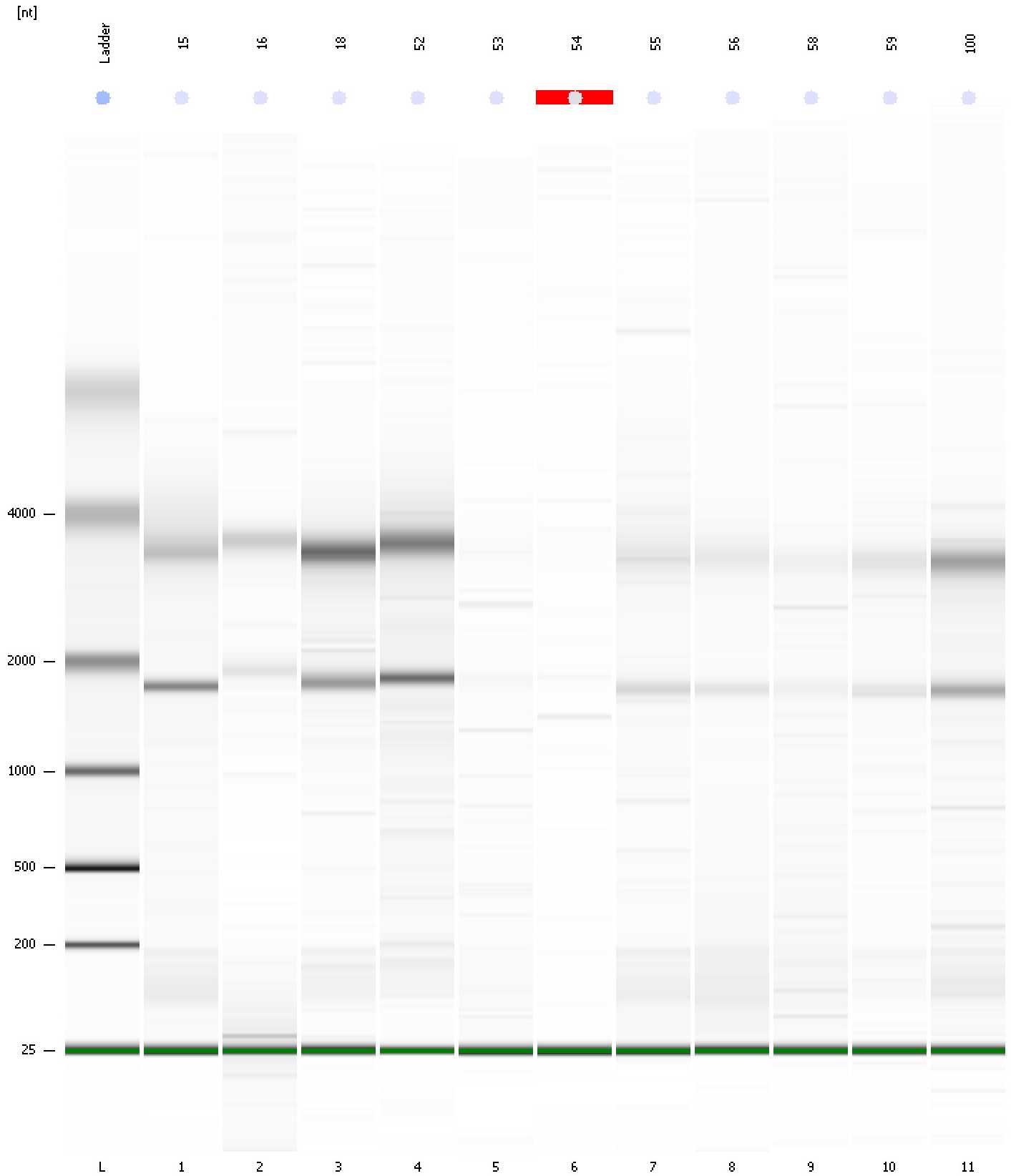
Fragment table for sample 11 : 100

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,380	2,002	15.6	14.8
28S	2,875	3,949	22.3	21.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
Modified: 4/19/2019 11:02:28 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad

Created: 4/19/2019 10:17:40 AM
 Modified: 4/19/2019 11:02:28 AM

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		4/19/2019 10:39:41 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-04-19\2019-04-19_002.xad)		Instrument	Run		4/19/2019 10:17:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/19/2019 10:17:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/19/2019 10:17:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/19/2019 10:17:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/19/2019 10:17:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/19/2019 10:17:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/19/2019 10:17:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1