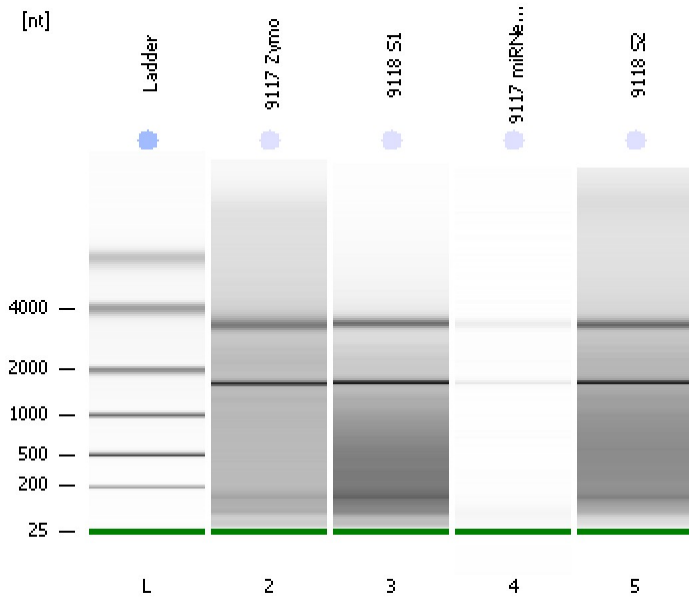


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
Modified: 9/27/2019 4:58:57 PM

Electrophoresis File Run Summary



Instrument Information:

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

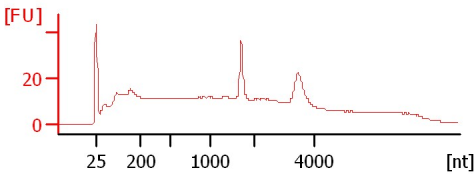
Assay Information:

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.

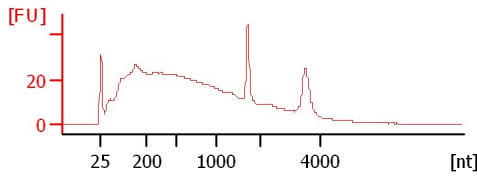
Chip Information:

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

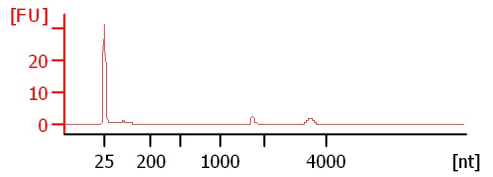
9117 Zymo
RIN: 4.90



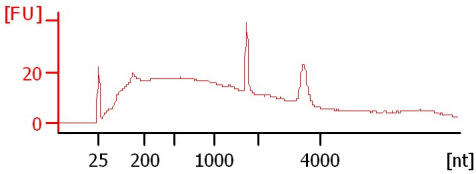
9118 S1
RIN: 4.60



9117 miRNeasy
RIN: 9



9118 S2
RIN: 4.30



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
 Modified: 9/27/2019 4:58:57 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
9117 Zymo		✓	RIN: 4.90	
9118 S1		✓	RIN: 4.60	
9117 miRNeasy		✓	RIN:9	
9118 S2		✓	RIN: 4.30	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
Modified: 9/27/2019 4:58:57 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

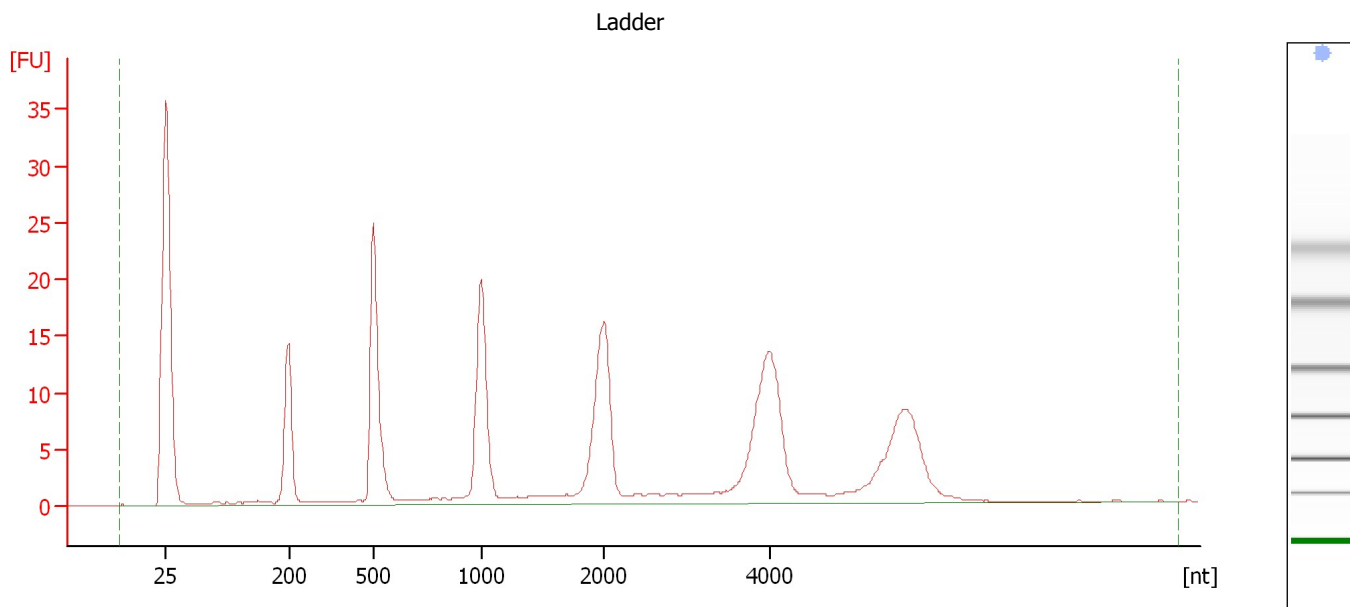
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
Modified: 9/27/2019 4:58:57 PM

Electropherogram Summary



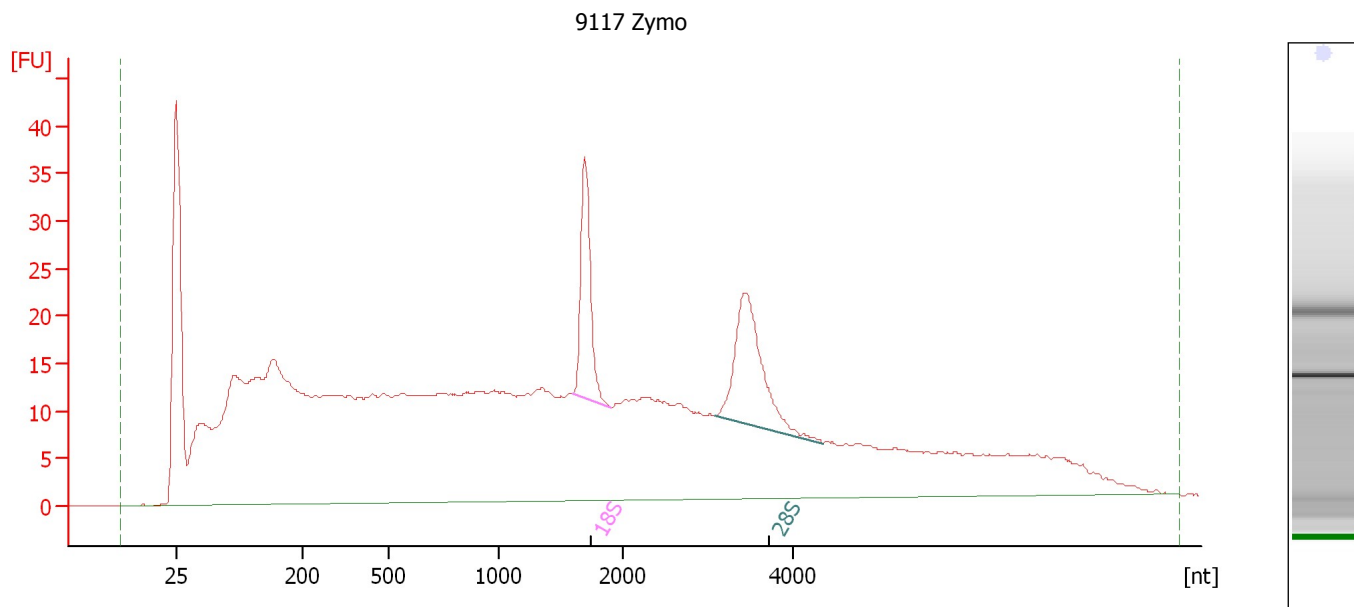
Overall Results for Ladder

RNA Area:	219.9	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
 Modified: 9/27/2019 4:58:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 9117 Zymo

RNA Area:	1,067.4	RNA Integrity Number (RIN):	4.9 (B.02.08)
RNA Concentration:	4,855 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 4.90

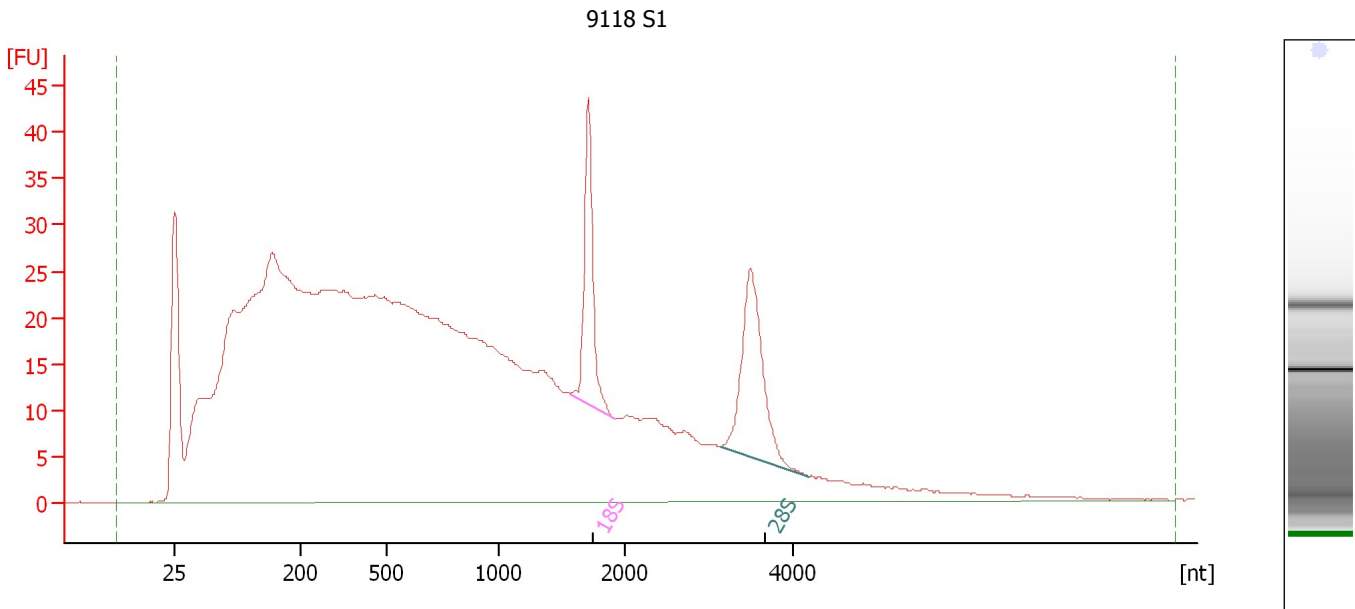
Fragment table for sample 2 : 9117 Zymo

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,901	31.8	3.0
28S	3,080	4,357	41.4	3.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
 Modified: 9/27/2019 4:58:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 9118 S1

RNA Area:	1,388.5	RNA Integrity Number (RIN):	4.6 (B.02.08)
RNA Concentration:	6,316 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 4.60

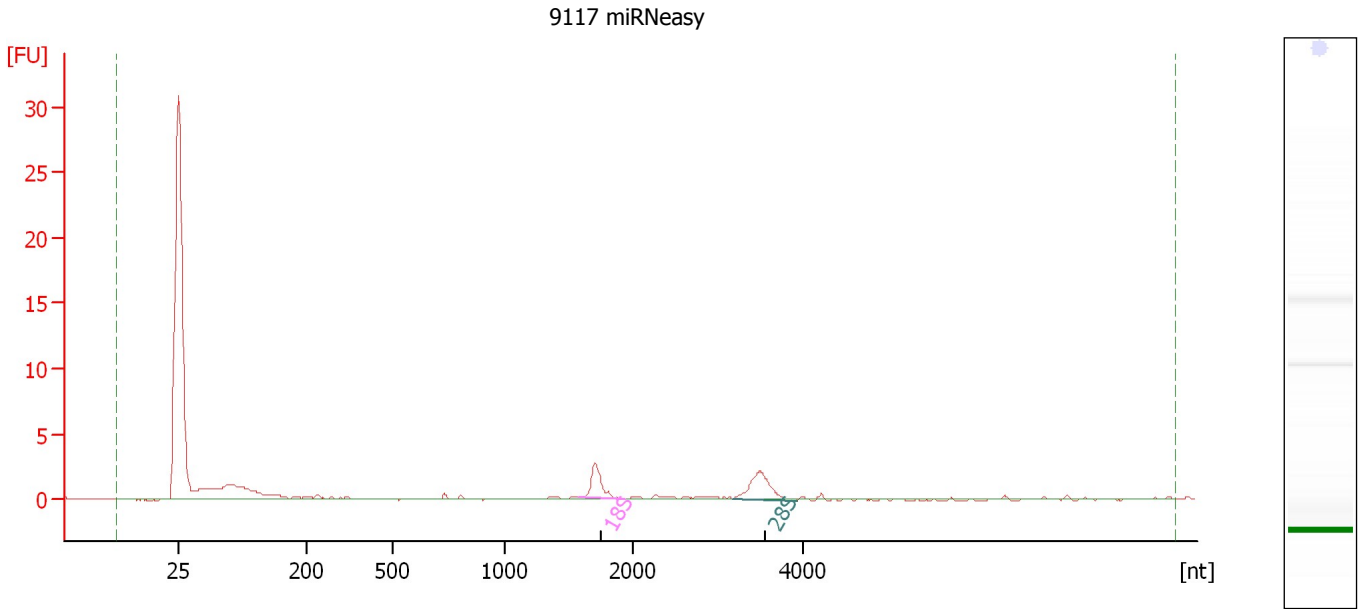
Fragment table for sample 3 : 9118 S1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,572	1,928	37.1	2.7
28S	3,139	4,171	46.3	3.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
Modified: 9/27/2019 4:58:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 9117 miRNeasy

RNA Area: 25.3 RNA Integrity Number (RIN): 9 (B.02.08)
RNA Concentration: 115 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN:9

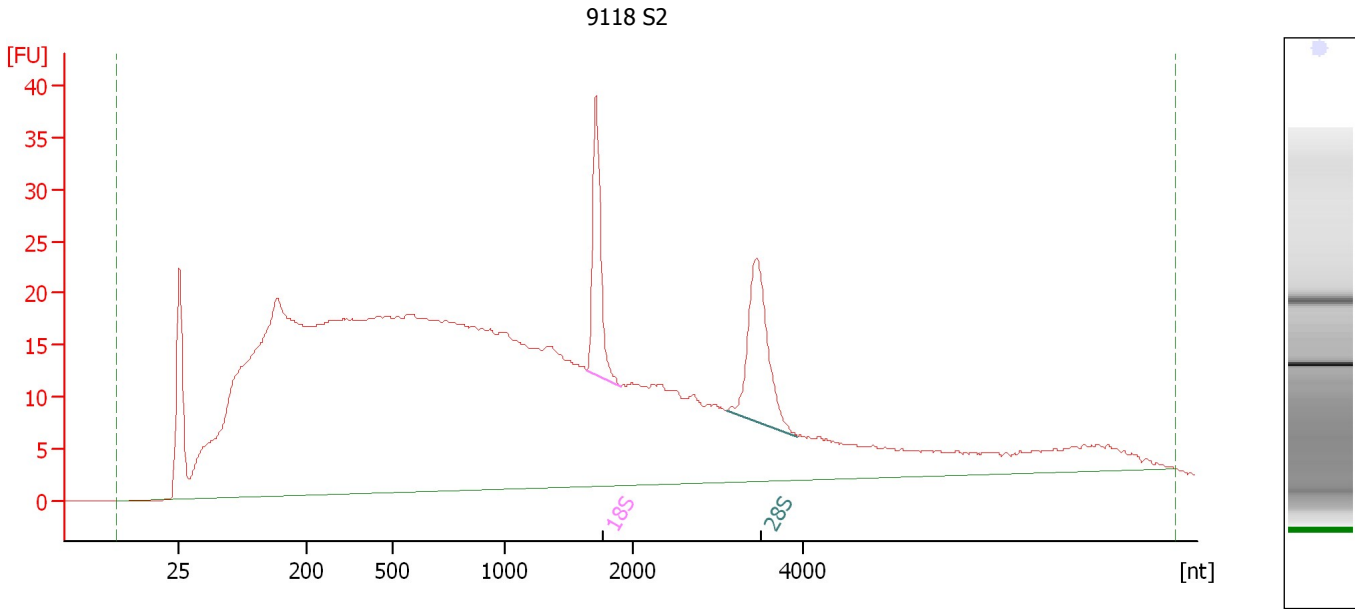
Fragment table for sample 4 : 9117 miRNeasy

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,947	3.4	13.5
28S	3,169	3,930	4.6	18.0

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
 Modified: 9/27/2019 4:58:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 9118 S2

RNA Area:	1,141.8	RNA Integrity Number (RIN):	4.3 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	5,193 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 4.30

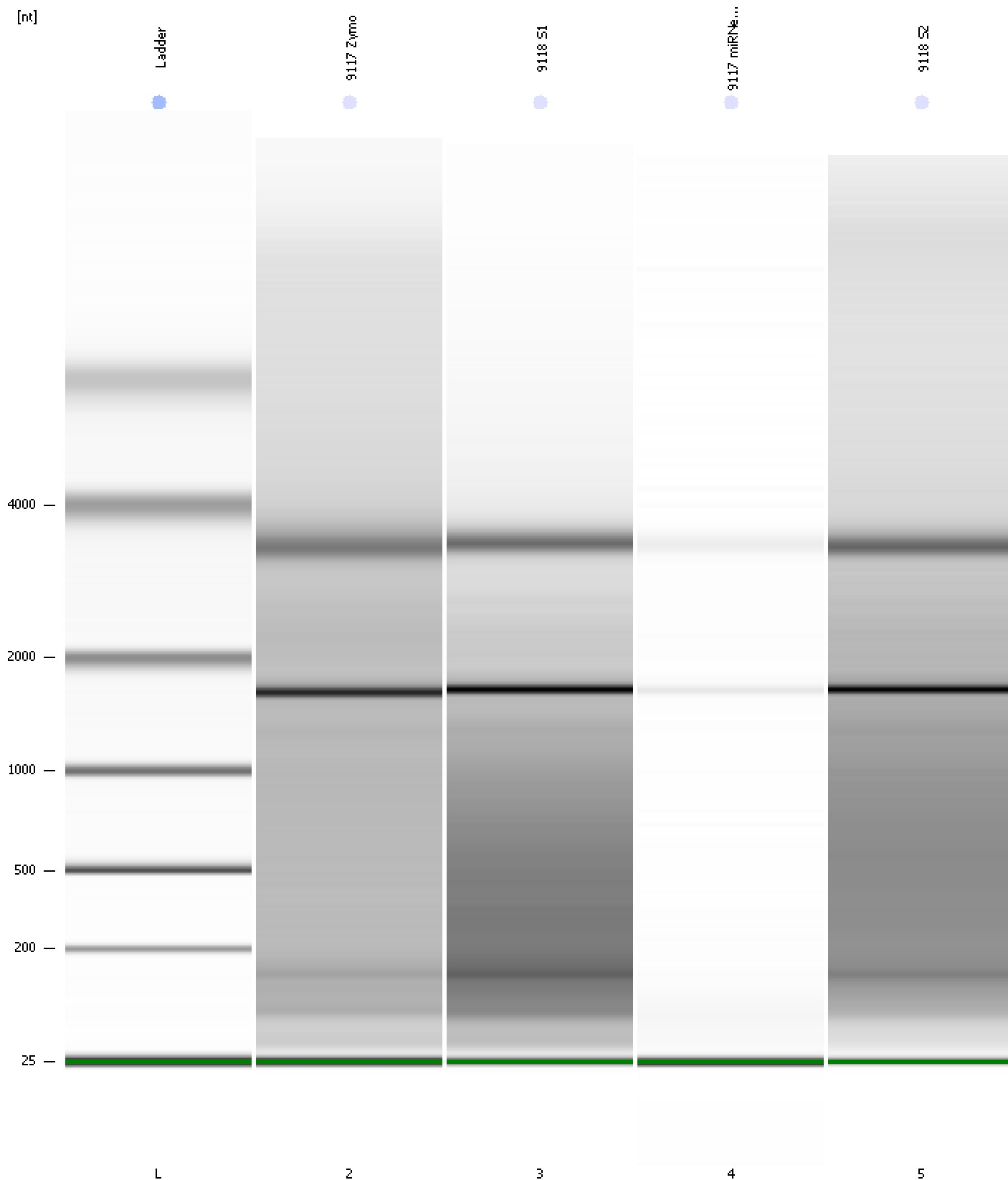
Fragment table for sample 5 : 9118 S2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,645	1,905	26.9	2.4
28S	3,107	3,930	33.8	3.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
Modified: 9/27/2019 4:58:57 PM

Gel Image

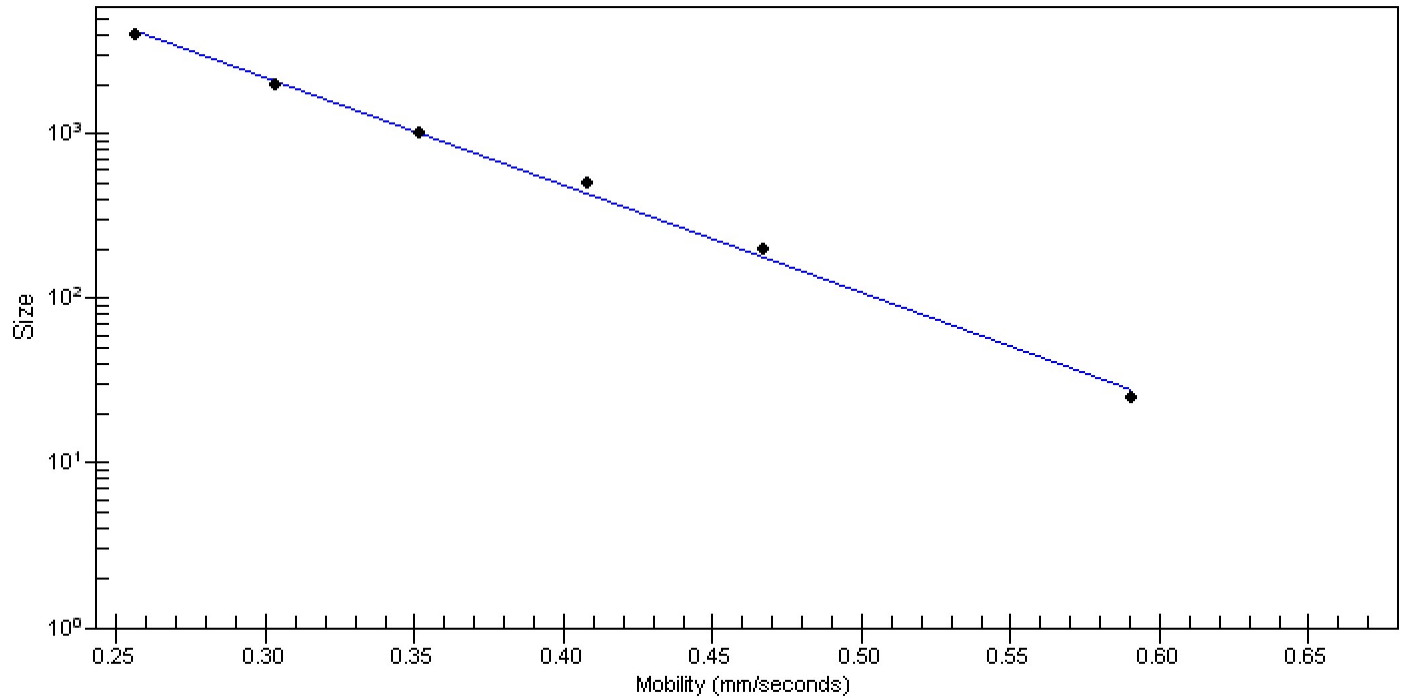


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
Modified: 9/27/2019 4:58:57 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...100 bioanalyzer\2100 expert\data\2019-09-27\QC483_RNAQC.xad

Created: 9/27/2019 4:25:19 PM
 Modified: 9/27/2019 4:58:57 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		9/27/2019 4:48:11 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-09-27\2019-09-27_002.xad)		Instrument	Run		9/27/2019 4:25:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/27/2019 4:25:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/27/2019 4:25:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/27/2019 4:25:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/27/2019 4:25:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/27/2019 4:25:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/27/2019 4:25:24 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1