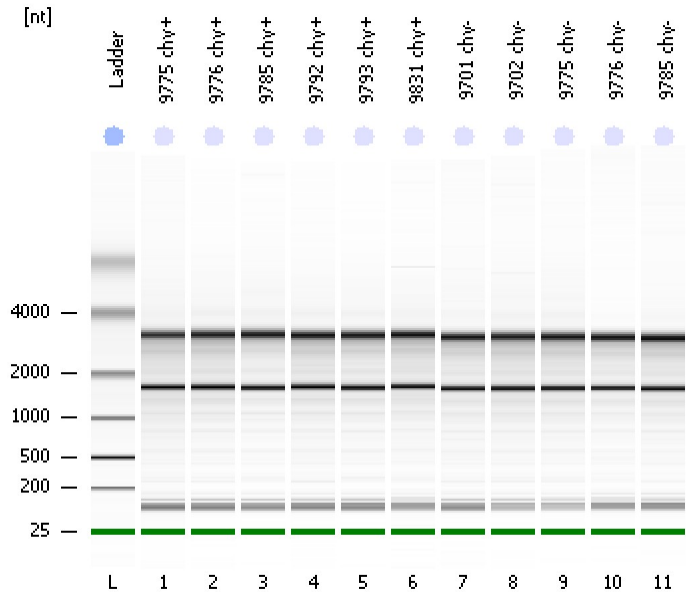


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electrophoresis File Run Summary



Instrument Information:

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

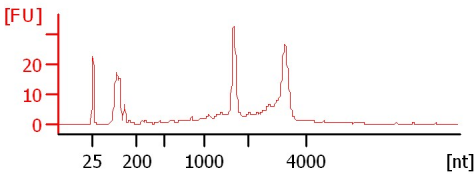
Assay Information:

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.

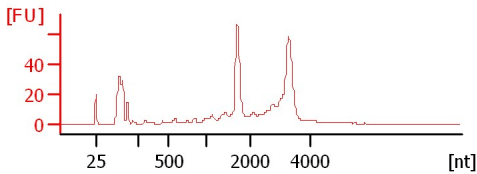
Chip Information:

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

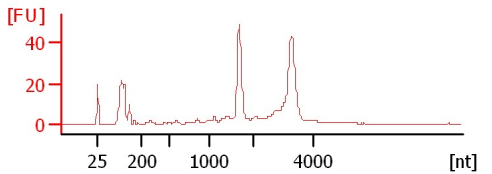
9775 chy+
RIN: 8.20



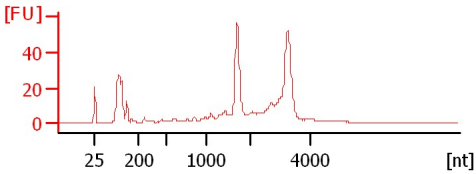
9776 chy+
RIN: 8.40



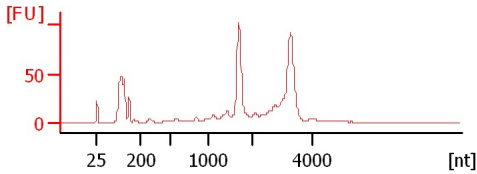
9785 chy+
RIN: 8.80



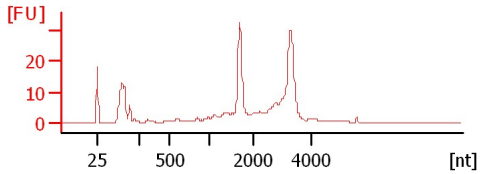
9792 chy+
RIN: 8.40



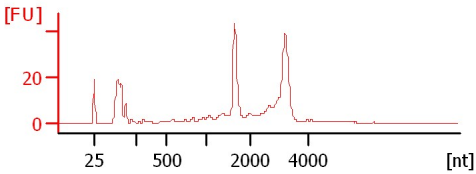
9793 chy+
RIN: 8.40



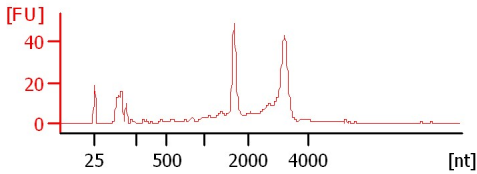
9831 chy+
RIN: 8.50



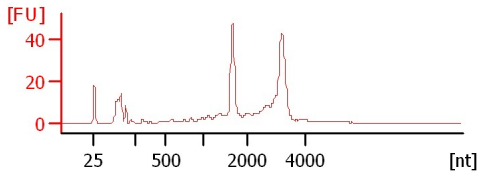
9701 chy-
RIN: 8.50



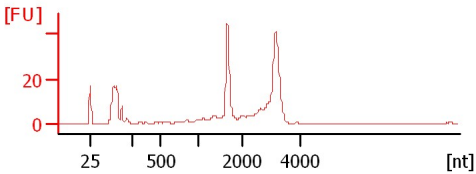
9702 chy-
RIN: 8.40



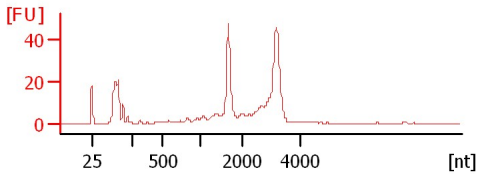
9775 chy-
RIN: 8.50



9776 chy-
RIN: 8.80



9785 chy-
RIN: 8.70



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
 Modified: 9/9/2019 11:46:07 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
9775 chy+		✓	RIN: 8.20	
9776 chy+		✓	RIN: 8.40	
9785 chy+		✓	RIN: 8.80	
9792 chy+		✓	RIN: 8.40	
9793 chy+		✓	RIN: 8.40	
9831 chy+		✓	RIN: 8.50	
9701 chy-		✓	RIN: 8.50	
9702 chy-		✓	RIN: 8.40	
9775 chy-		✓	RIN: 8.50	
9776 chy-		✓	RIN: 8.80	
9785 chy-		✓	RIN: 8.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 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/ 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

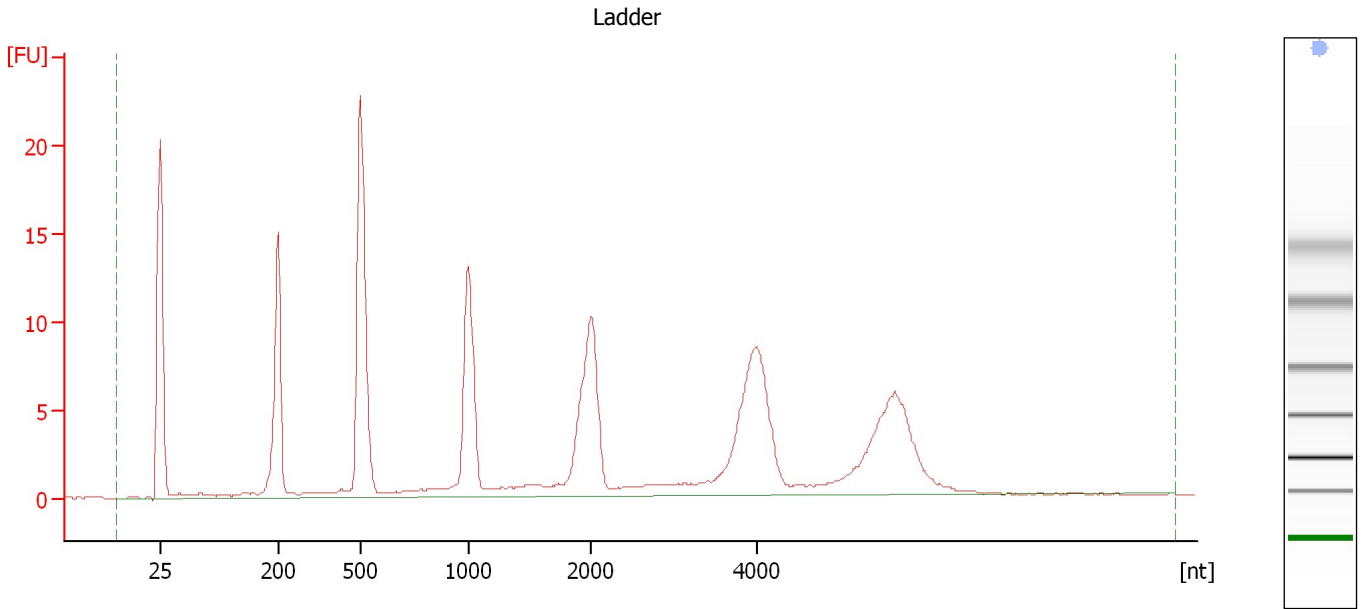
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary



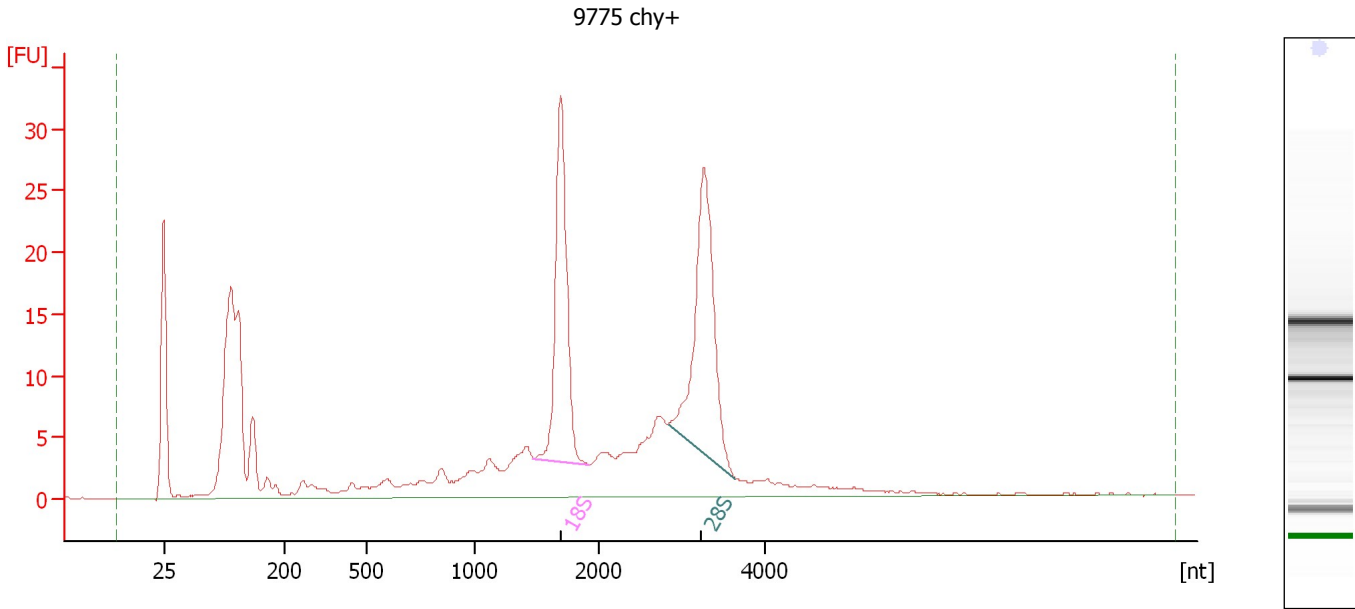
Overall Results for Ladder

RNA Area:	172.8	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\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 9775 chy+

RNA Area:	317.9	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	1,840 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.20

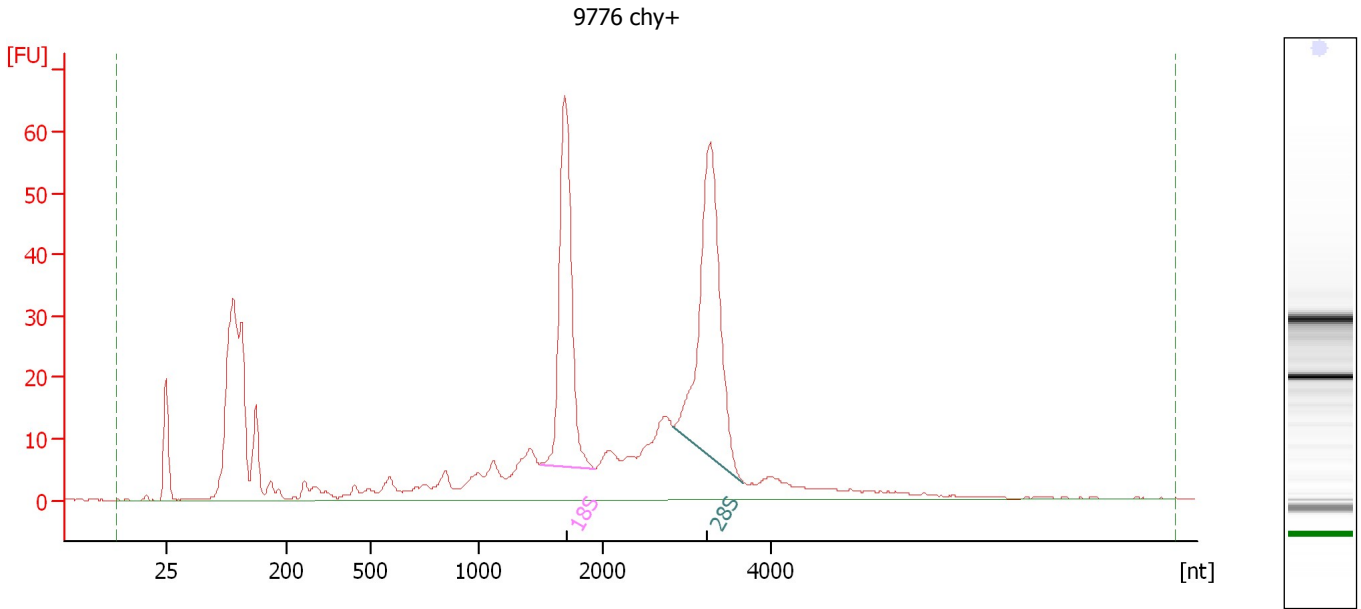
Fragment table for sample 1 : 9775 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,467	1,907	45.1	14.2
28S	2,826	3,637	50.0	15.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 9776 chy+

RNA Area: 639.8 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 3,703 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.40

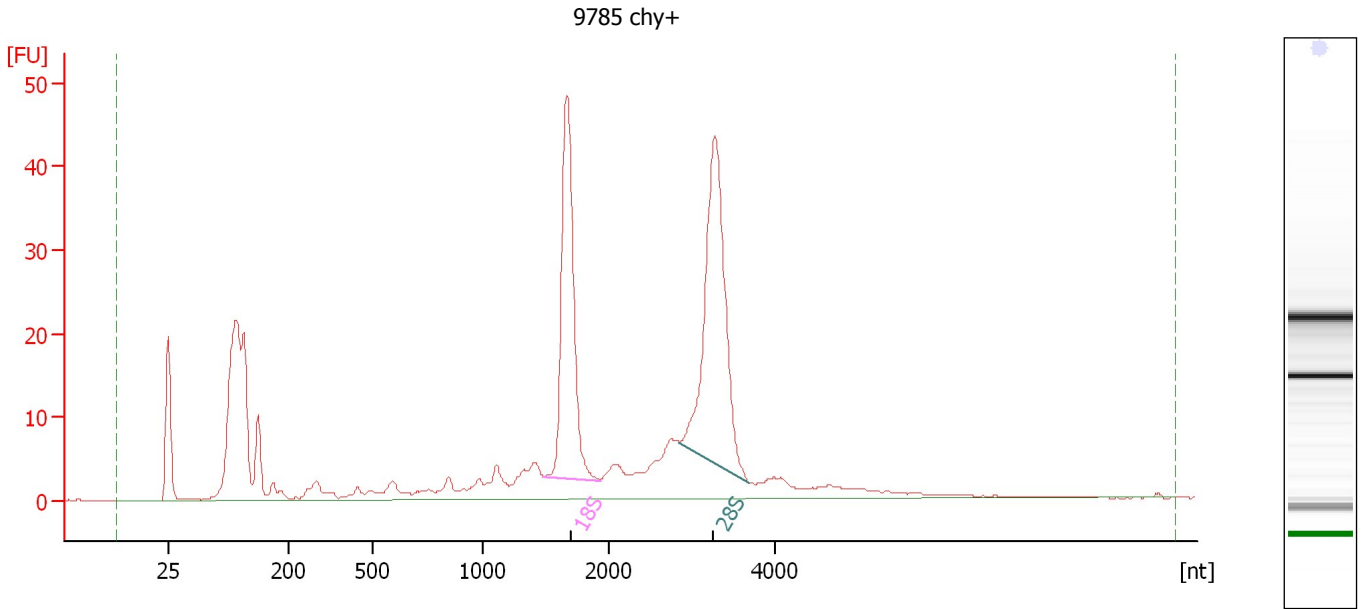
Fragment table for sample 2 : 9776 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,488	1,925	96.8	15.1
28S	2,837	3,669	118.1	18.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 9785 chy+

RNA Area: 410.8 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 2,378 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.80

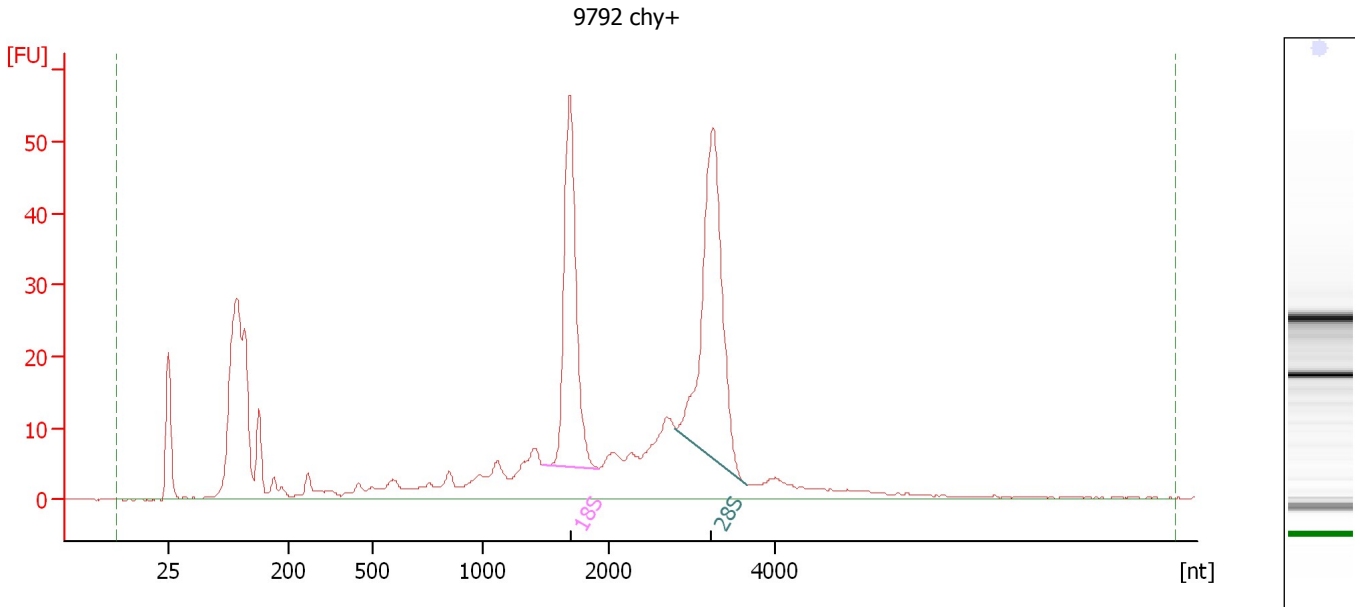
Fragment table for sample 3 : 9785 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,483	1,935	71.9	17.5
28S	2,847	3,689	89.4	21.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 9792 chy+

RNA Area: 546.4 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 3,163 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.40

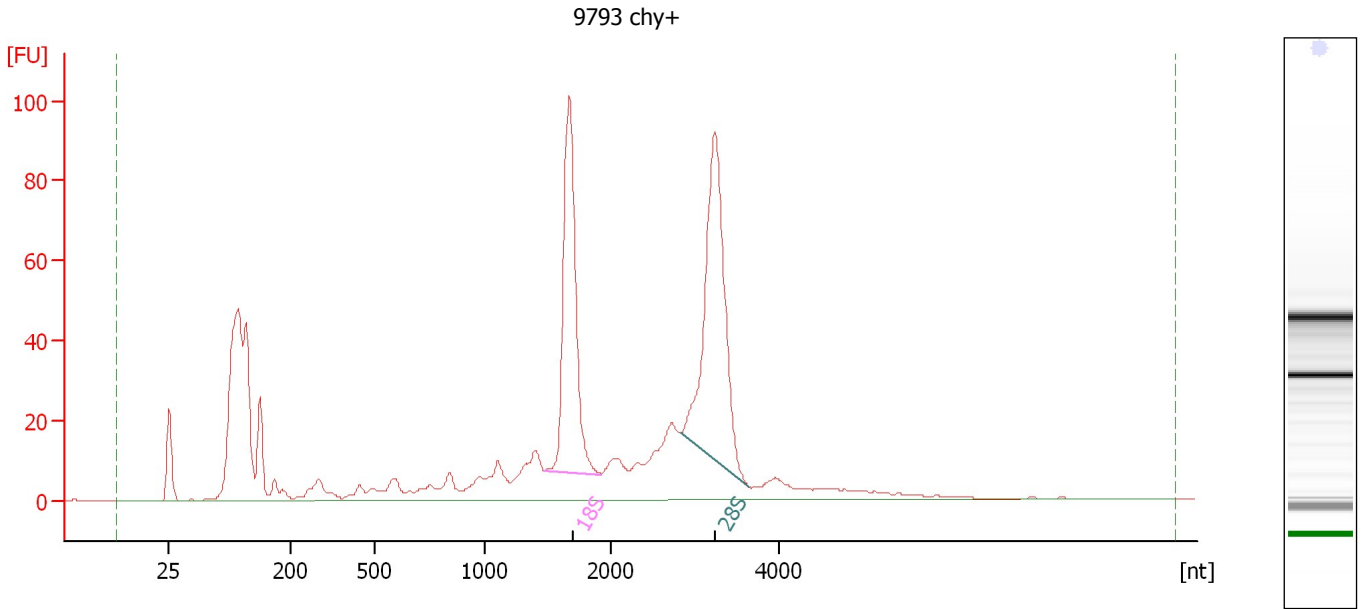
Fragment table for sample 4 : 9792 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,483	1,927	81.3	14.9
28S	2,809	3,650	103.6	19.0

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 9793 chy+

RNA Area: 951.2 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 5,506 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.40

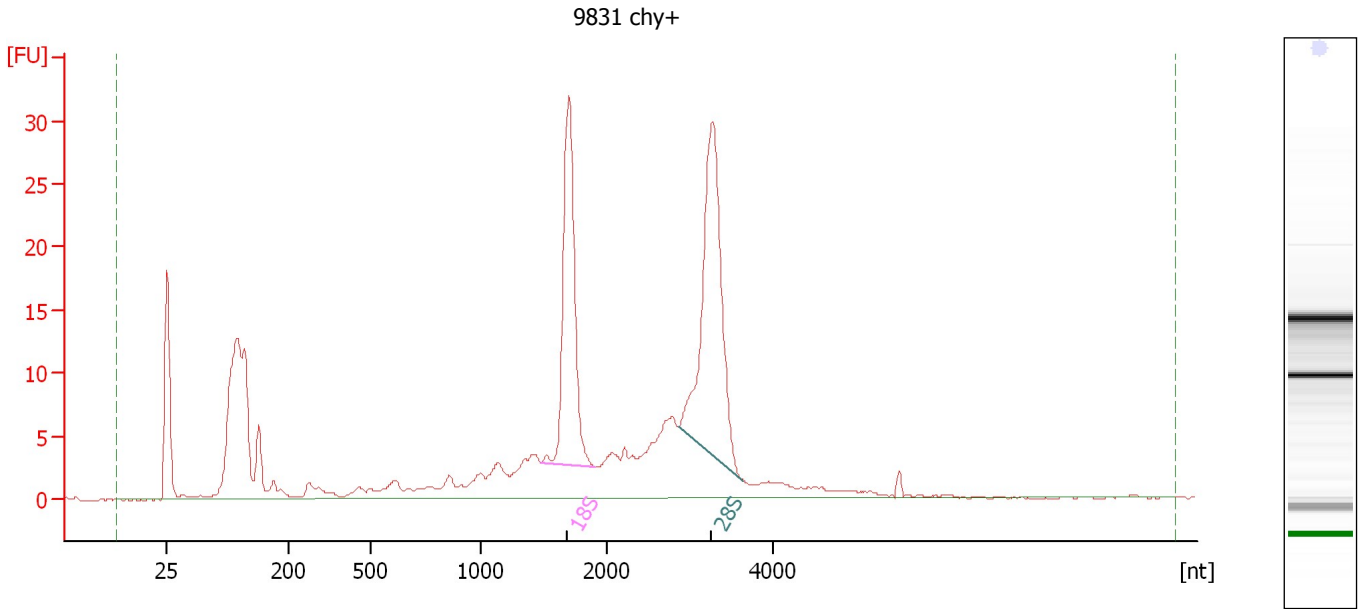
Fragment table for sample 5 : 9793 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,485	1,927	150.1	15.8
28S	2,833	3,660	184.3	19.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 9831 chy+

RNA Area: 284.9 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 1,649 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.50

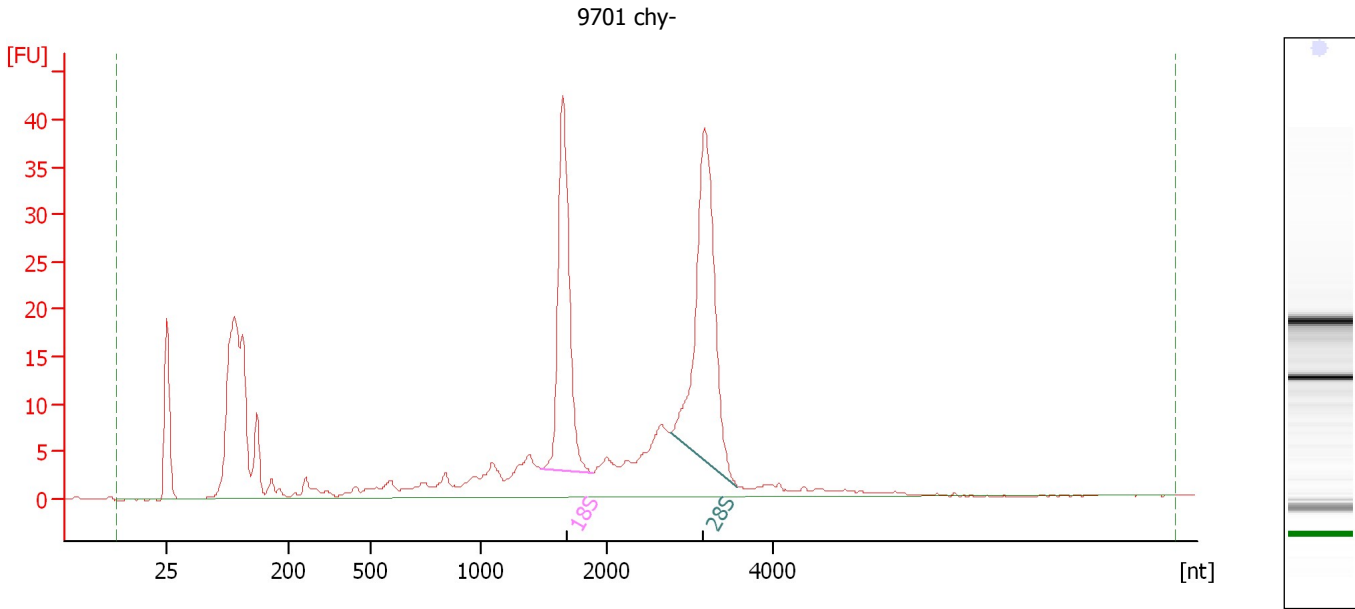
Fragment table for sample 6 : 9831 chy+

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,481	1,918	43.6	15.3
28S	2,861	3,641	57.5	20.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
 Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 9701 chy-

RNA Area:	370.5	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	2,145 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.50

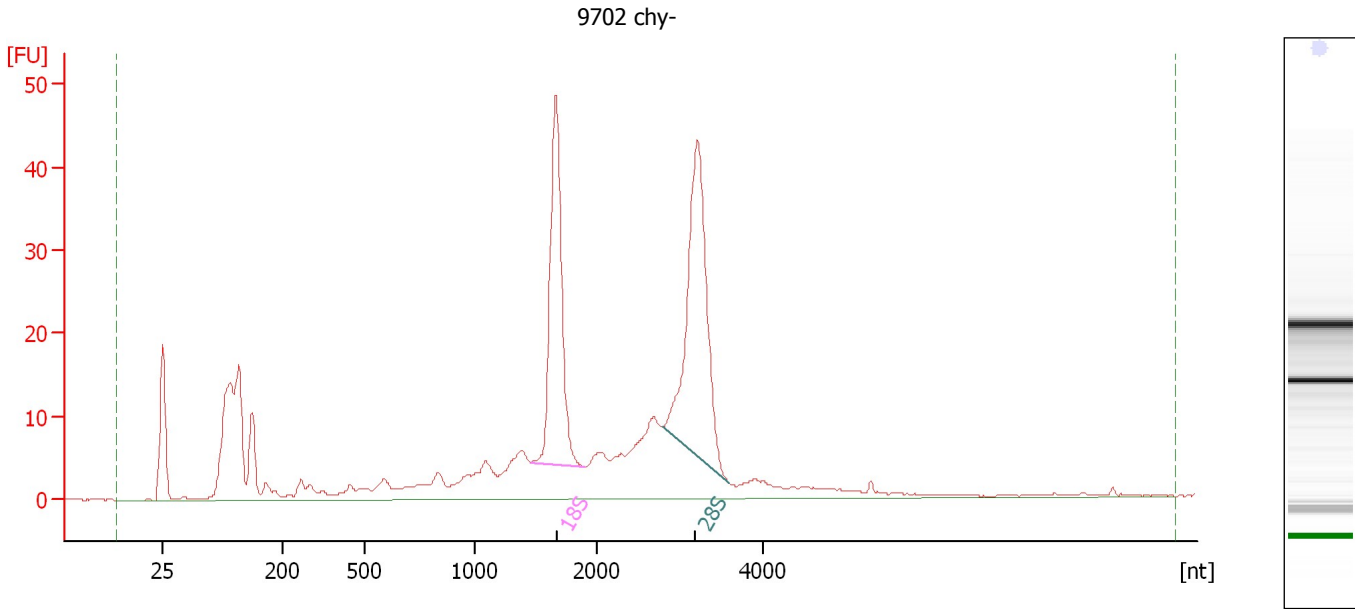
Fragment table for sample 7 : 9701 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,481	1,900	58.6	15.8
28S	2,772	3,577	75.9	20.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 9702 chy-

RNA Area: 434.7 RNA Integrity Number (RIN): 8.4 (B.02.08)
RNA Concentration: 2,516 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 8.40

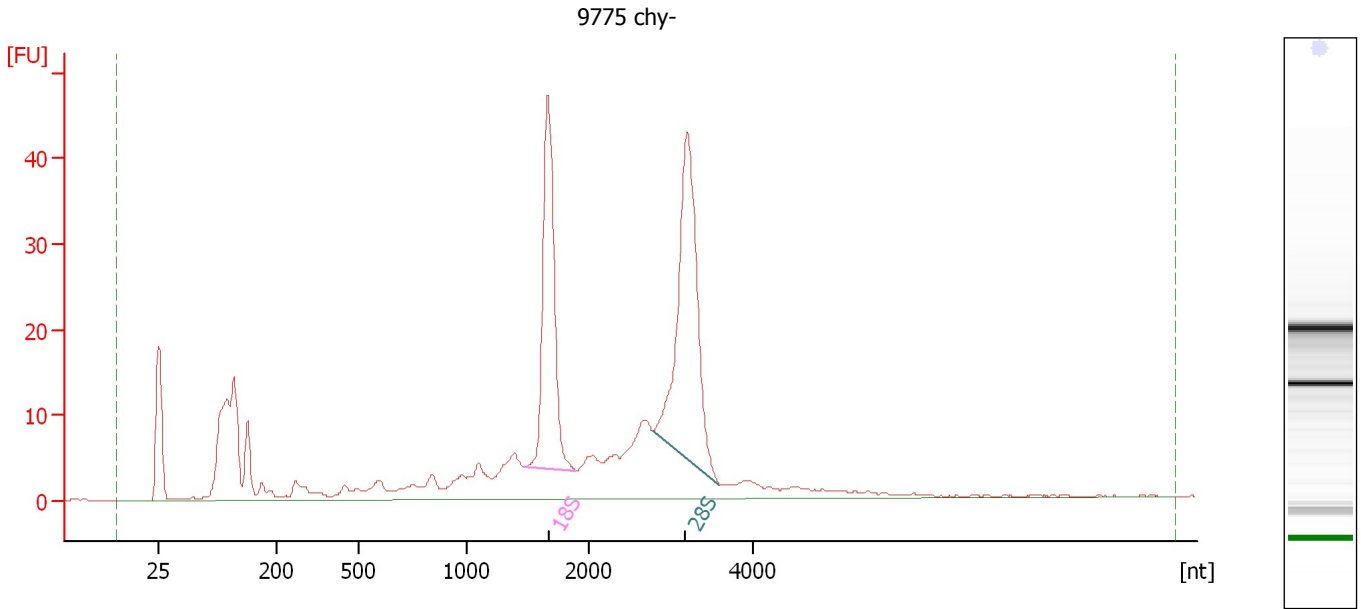
Fragment table for sample 8 : 9702 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,457	1,889	69.2	15.9
28S	2,789	3,588	85.3	19.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 9775 chy-

RNA Area: 412.9 RNA Integrity Number (RIN): 8.5 (B.02.08)
RNA Concentration: 2,390 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.3 Result Flagging Label: RIN: 8.50

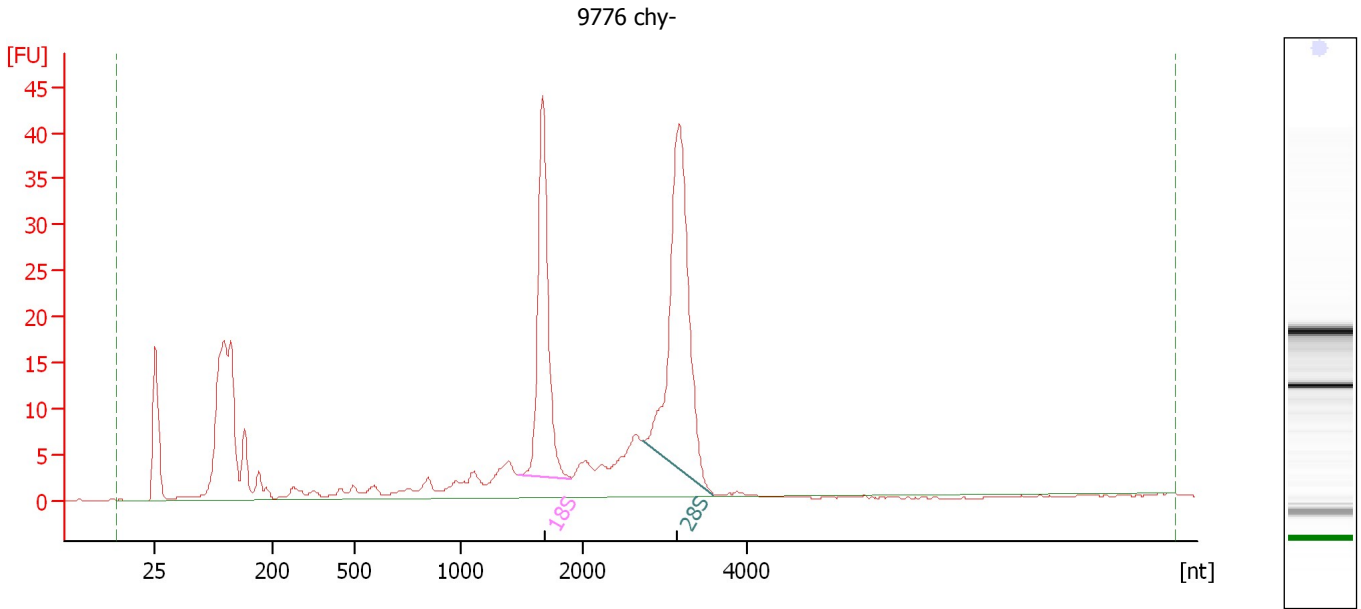
Fragment table for sample 9 : 9775 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,467	1,886	66.4	16.1
28S	2,767	3,587	85.6	20.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 9776 chy-

RNA Area: 335.0 RNA Integrity Number (RIN): 8.8 (B.02.08)
RNA Concentration: 1,939 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.80

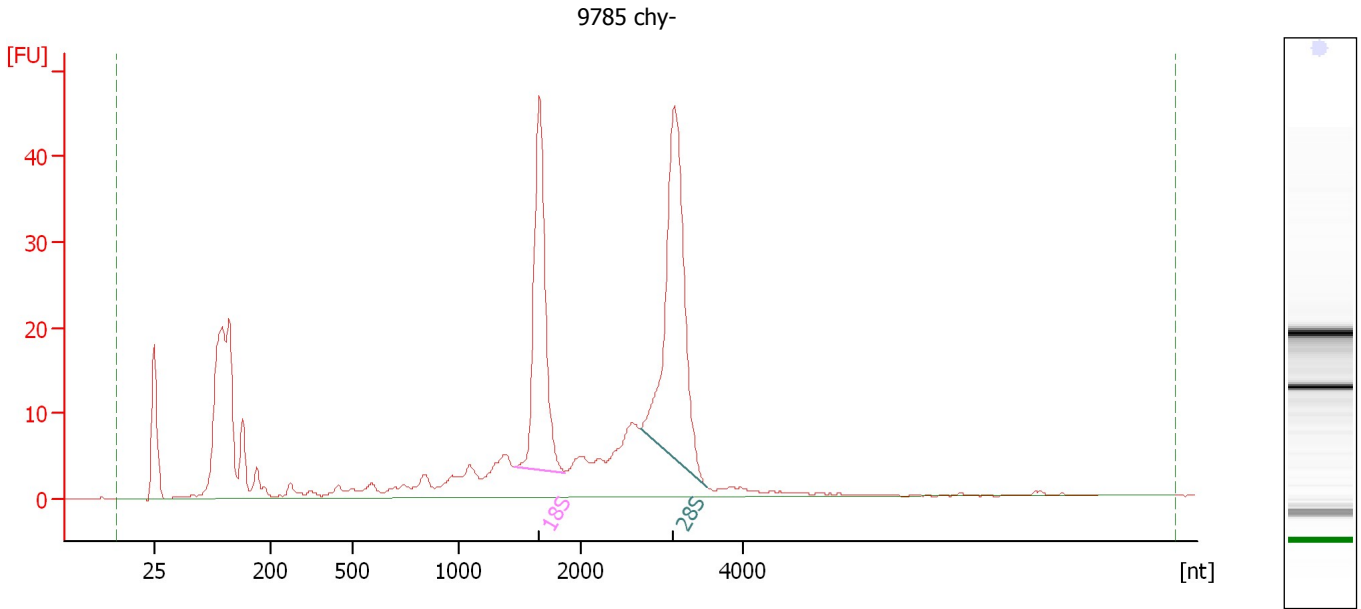
Fragment table for sample 10 : 9776 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,471	1,901	58.5	17.5
28S	2,730	3,596	83.1	24.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 9785 chy-

RNA Area: 417.0 RNA Integrity Number (RIN): 8.7 (B.02.08)
RNA Concentration: 2,414 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.70

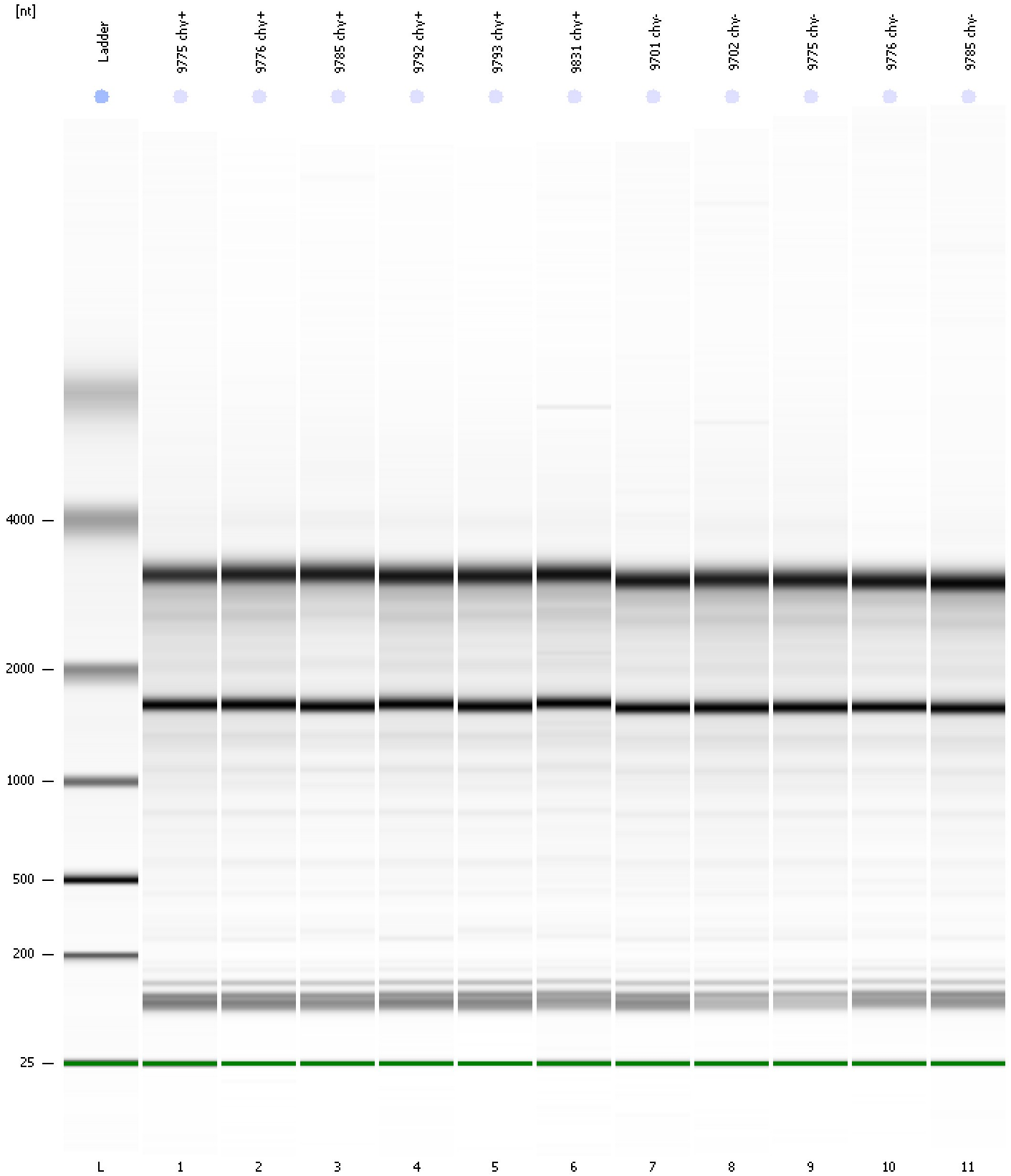
Fragment table for sample 11 : 9785 chy-

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,451	1,865	67.0	16.1
28S	2,731	3,546	90.9	21.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Gel Image

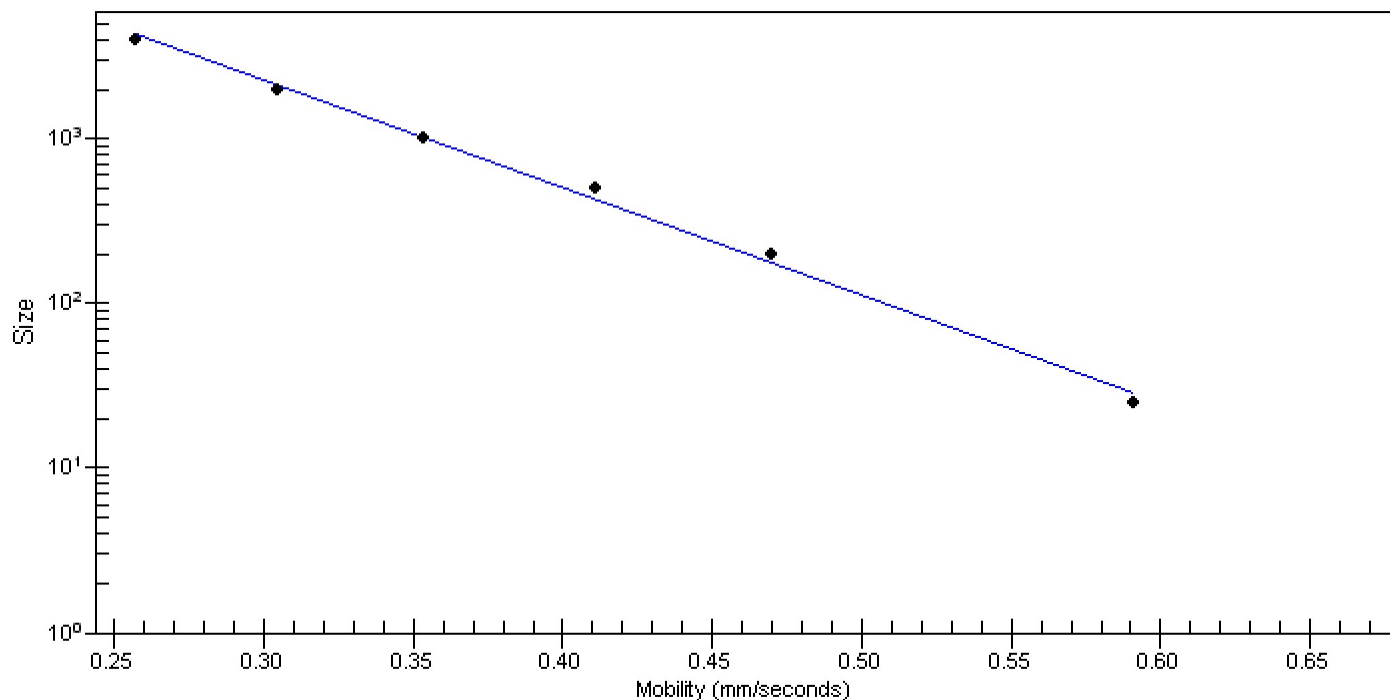


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
Modified: 9/9/2019 11:46:07 AM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-09\2019-09-09_002.xad

Created: 9/9/2019 11:24:04 AM
 Modified: 9/9/2019 11:46:07 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		9/9/2019 11:46:06 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\2019-09-09\2019-09-09_002.xad)		Instrument	Run		9/9/2019 11:24:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		9/9/2019 11:24:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		9/9/2019 11:24:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		9/9/2019 11:24:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		9/9/2019 11:24:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		9/9/2019 11:24:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		9/9/2019 11:24:09 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1