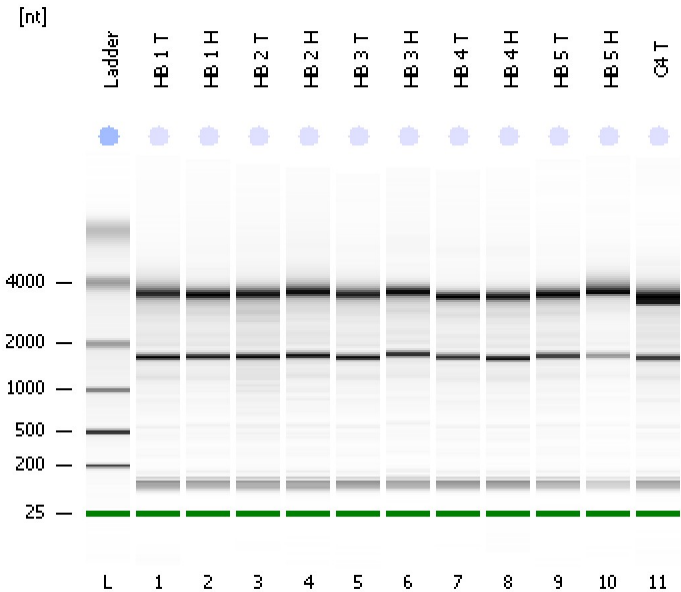


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electrophoresis File Run Summary



Instrument Information:

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

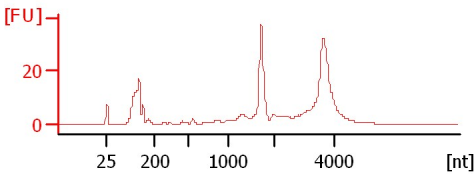
Assay Information:

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.

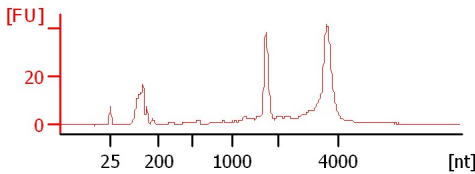
Chip Information:

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

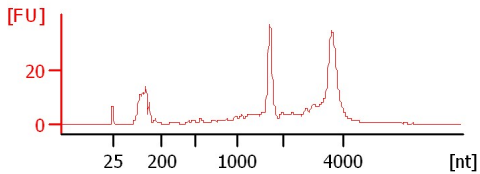
HB 1 T
RIN: 9.10



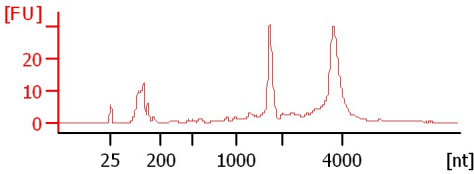
HB 1 H
RIN: 9.30



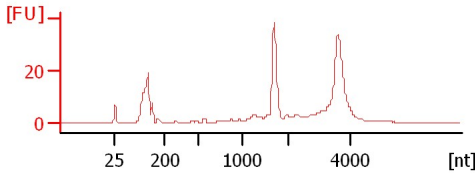
HB 2 T
RIN: 8.30



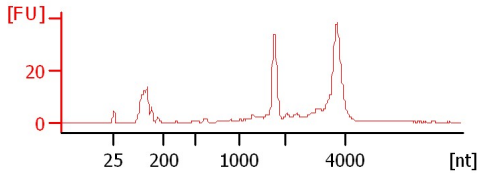
HB 2 H
RIN: 9.10



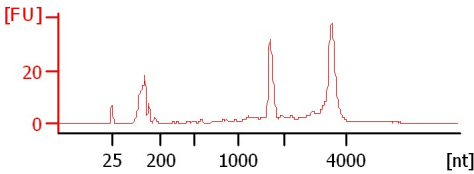
HB 3 T
RIN: 9.30



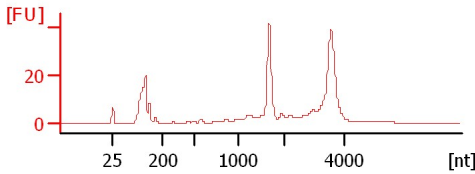
HB 3 H
RIN: 9.10



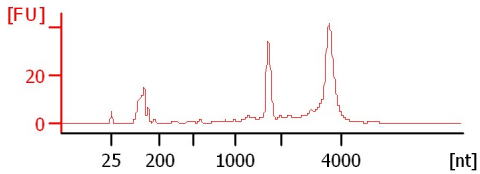
HB 4 T
RIN: 9



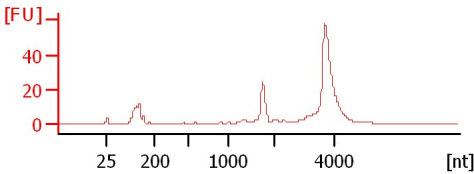
HB 4 H
RIN: 8.90



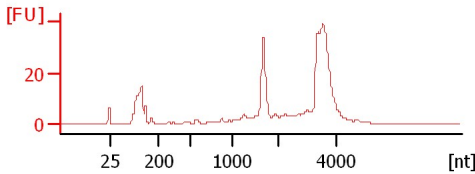
HB 5 T
RIN: 9.10



HB 5 H
RIN: 9.30



C4 T
RIN: 9.50



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
 Modified: 8/24/2016 11:47:13 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
HB 1 T		✓	RIN: 9.10	
HB 1 H		✓	RIN: 9.30	
HB 2 T		✓	RIN: 8.30	
HB 2 H		✓	RIN: 9.10	
HB 3 T		✓	RIN: 9.30	
HB 3 H		✓	RIN: 9.10	
HB 4 T		✓	RIN:9	
HB 4 H		✓	RIN: 8.90	
HB 5 T		✓	RIN: 9.10	
HB 5 H		✓	RIN: 9.30	
C4 T		✓	RIN: 9.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 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

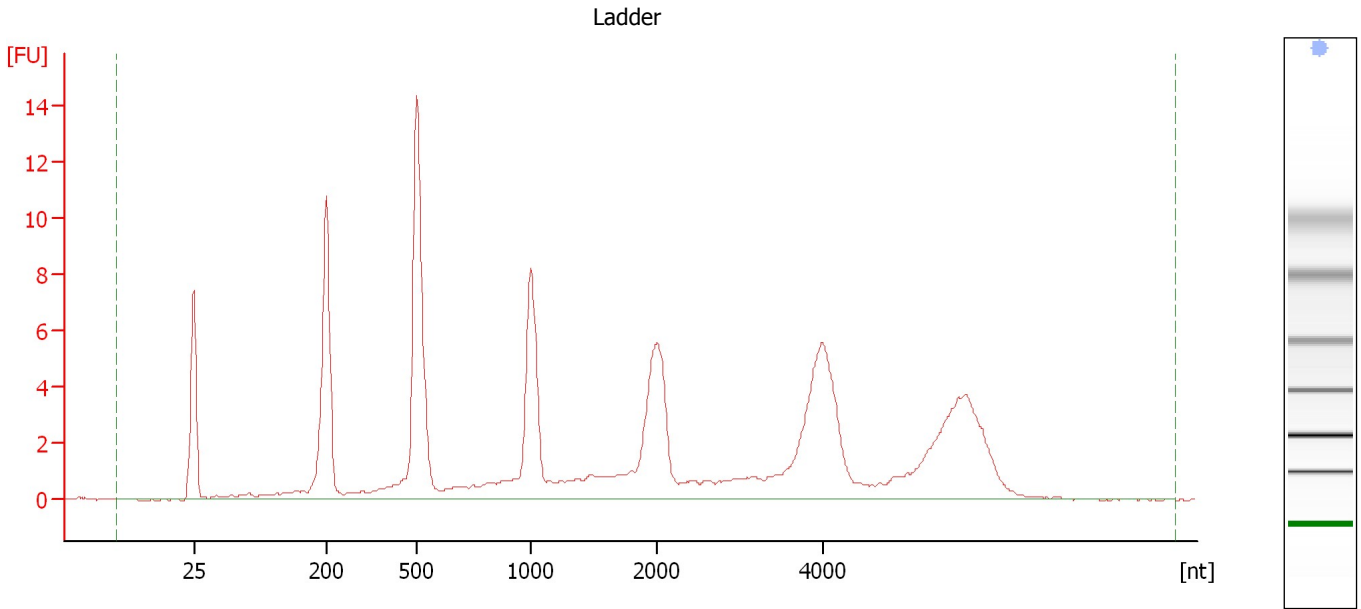
Ladder

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\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary



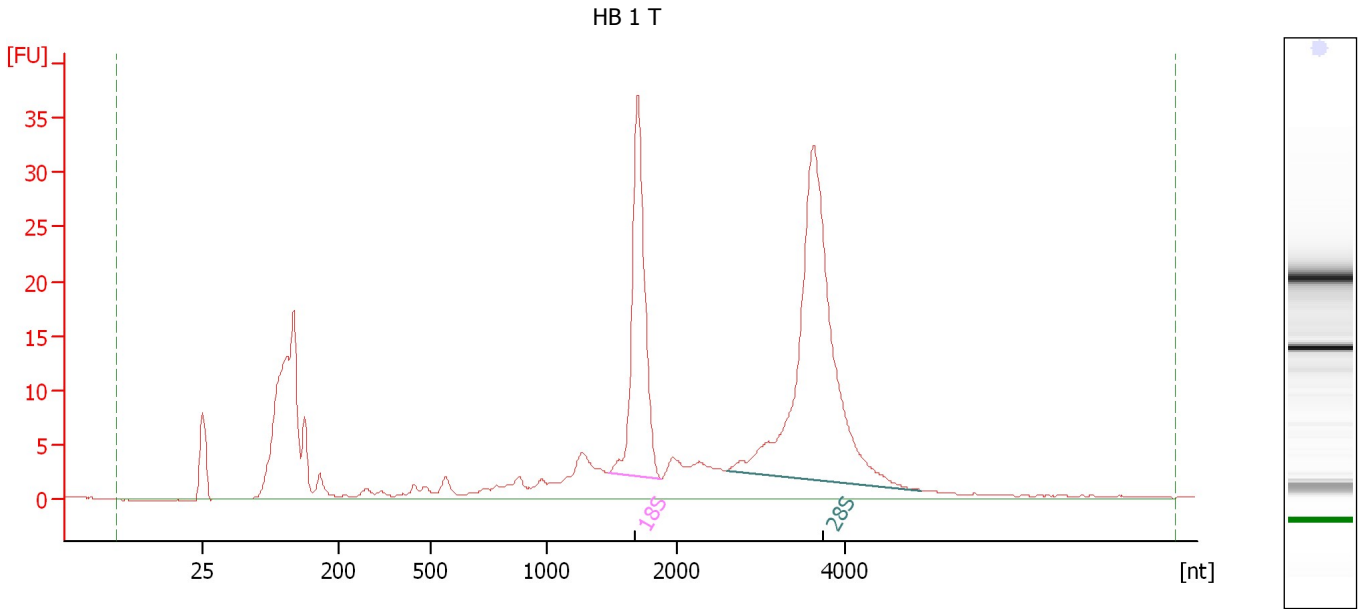
Overall Results for Ladder

RNA Area:	126.5	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\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HB 1 T

RNA Area:	344.3	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	2,722 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.10

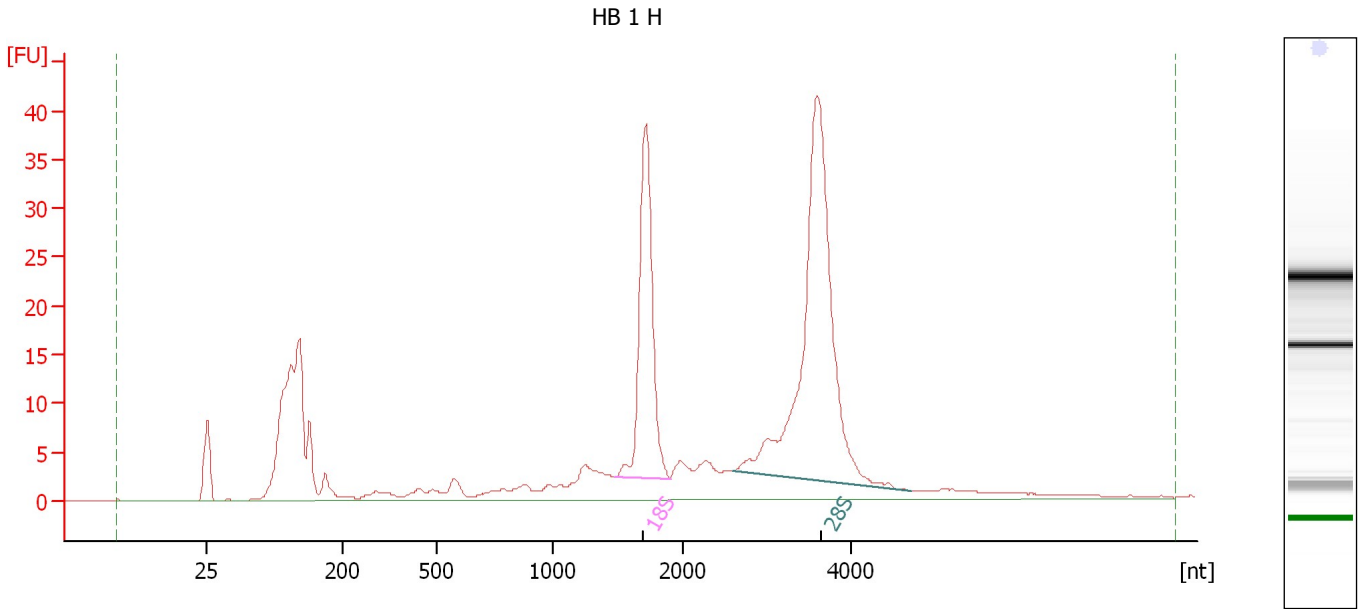
Fragment table for sample 1 : HB 1 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,472	1,879	54.4	15.8
28S	2,592	4,924	107.0	31.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HB 1 H

RNA Area: 356.5 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 2,818 µg/µl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.0 Result Flagging Label: RIN: 9.30

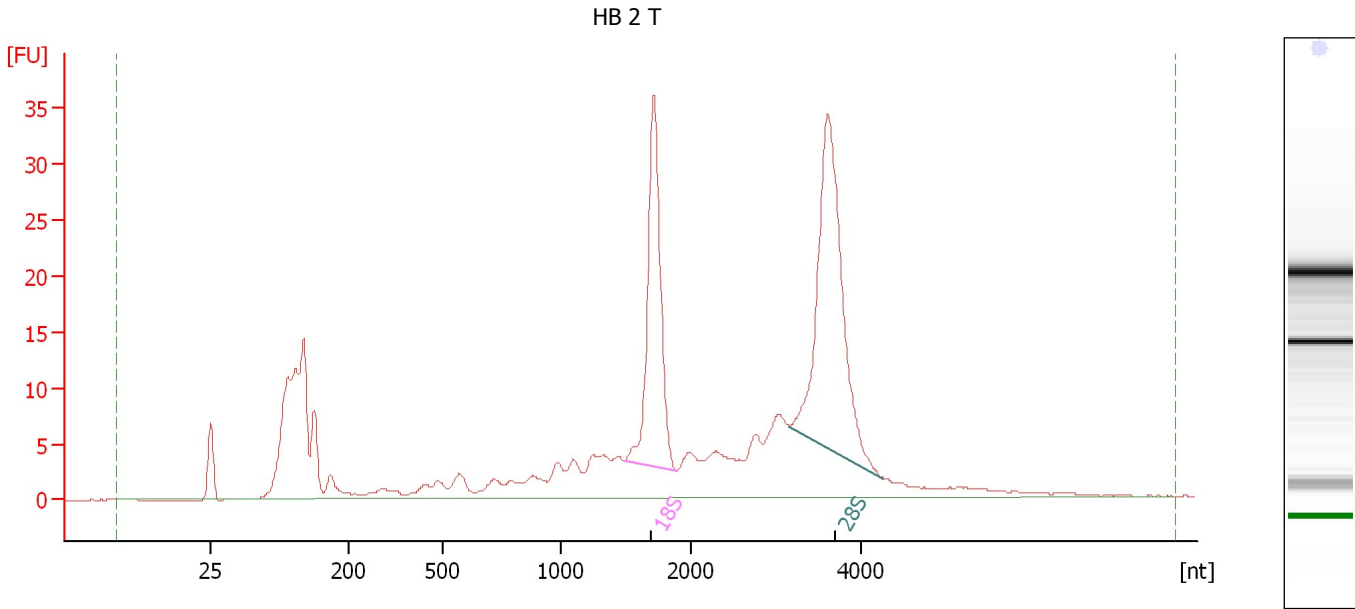
Fragment table for sample 2 : HB 1 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,477	1,906	57.0	16.0
28S	2,591	4,705	116.4	32.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HB 2 T

RNA Area: 355.7 RNA Integrity Number (RIN): 8.3 (B.02.08)
RNA Concentration: 2,812 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.4 Result Flagging Label: RIN: 8.30

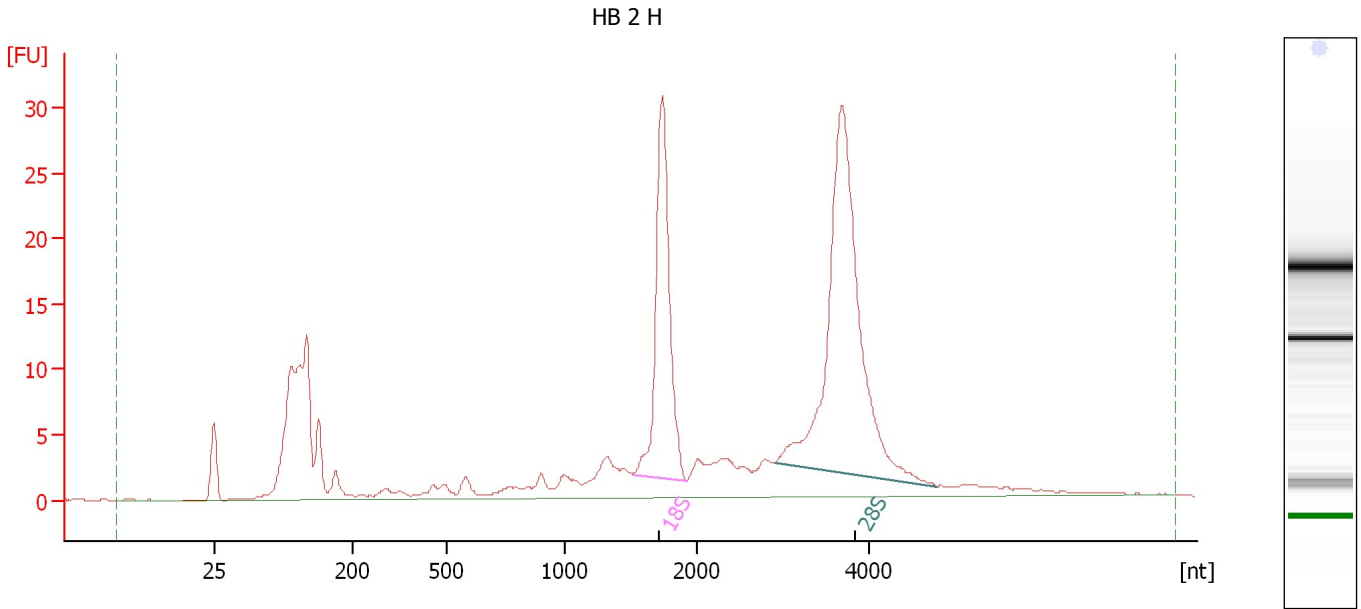
Fragment table for sample 3 : HB 2 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,491	1,893	51.6	14.5
28S	3,154	4,259	74.1	20.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HB 2 H

RNA Area: 293.5 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 2,320 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 9.10

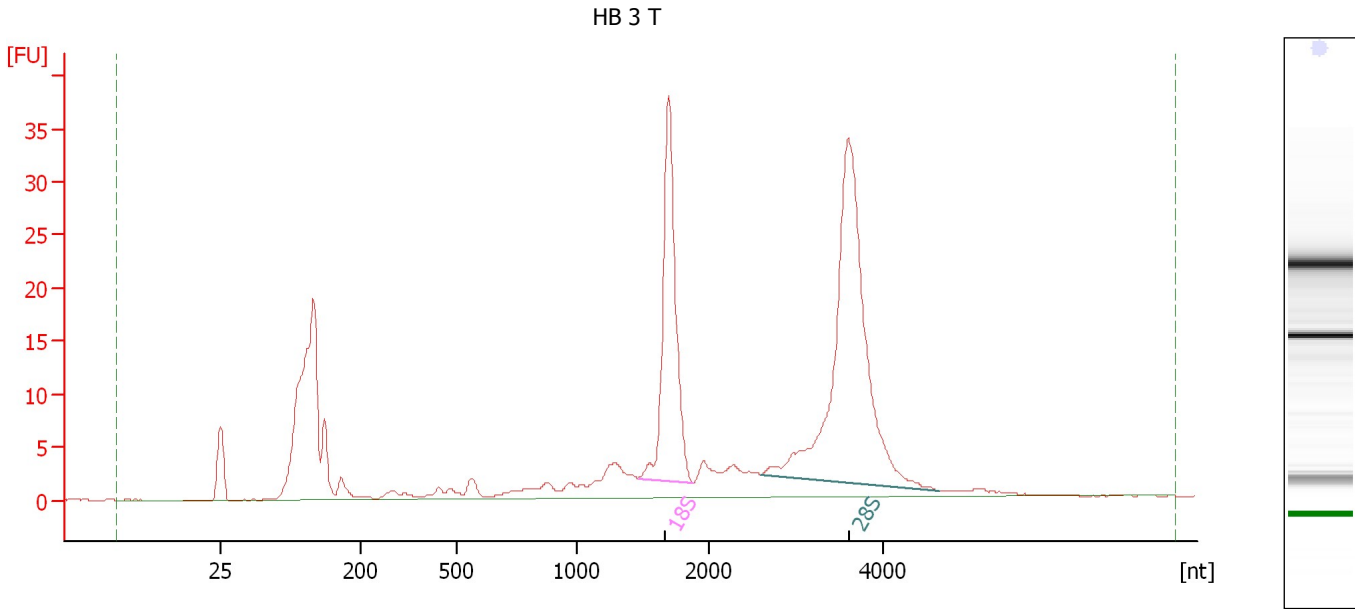
Fragment table for sample 4 : HB 2 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,504	1,919	46.5	15.8
28S	2,900	4,808	87.0	29.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HB 3 T

RNA Area:	307.2	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	2,429 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.30

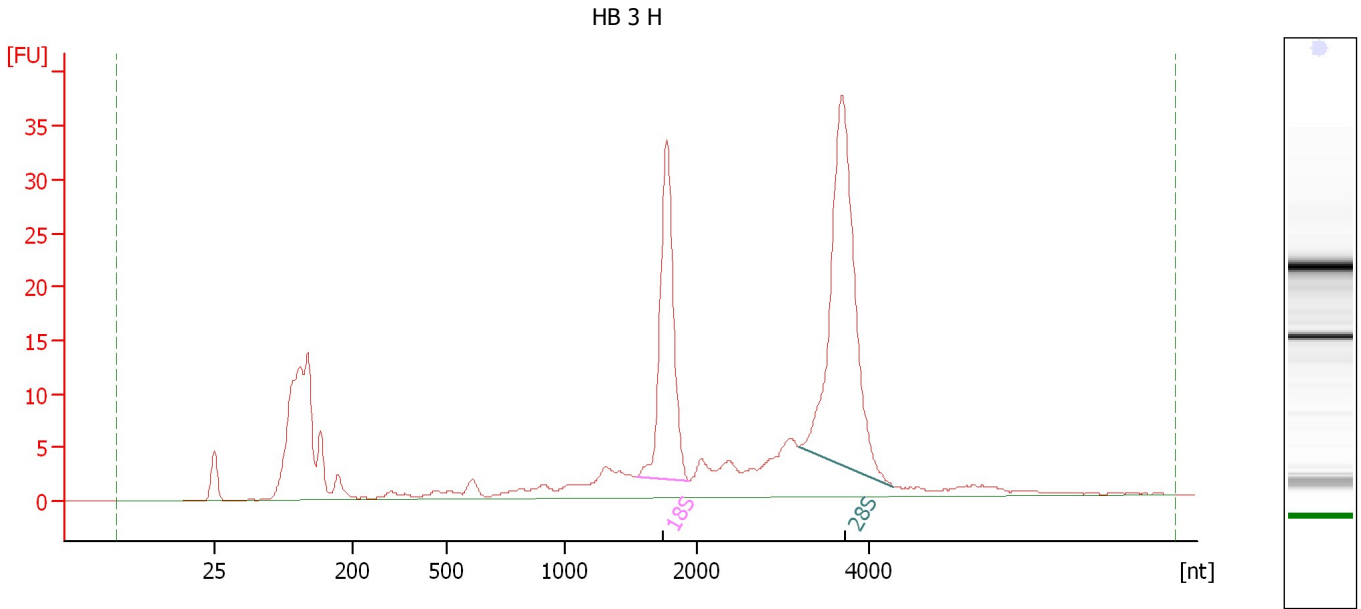
Fragment table for sample 5 : HB 3 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,465	1,875	54.6	17.8
28S	2,597	4,642	99.5	32.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HB 3 H

RNA Area: 307.4 RNA Integrity Number (RIN): 9.1 (B.02.08)
RNA Concentration: 2,431 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.10

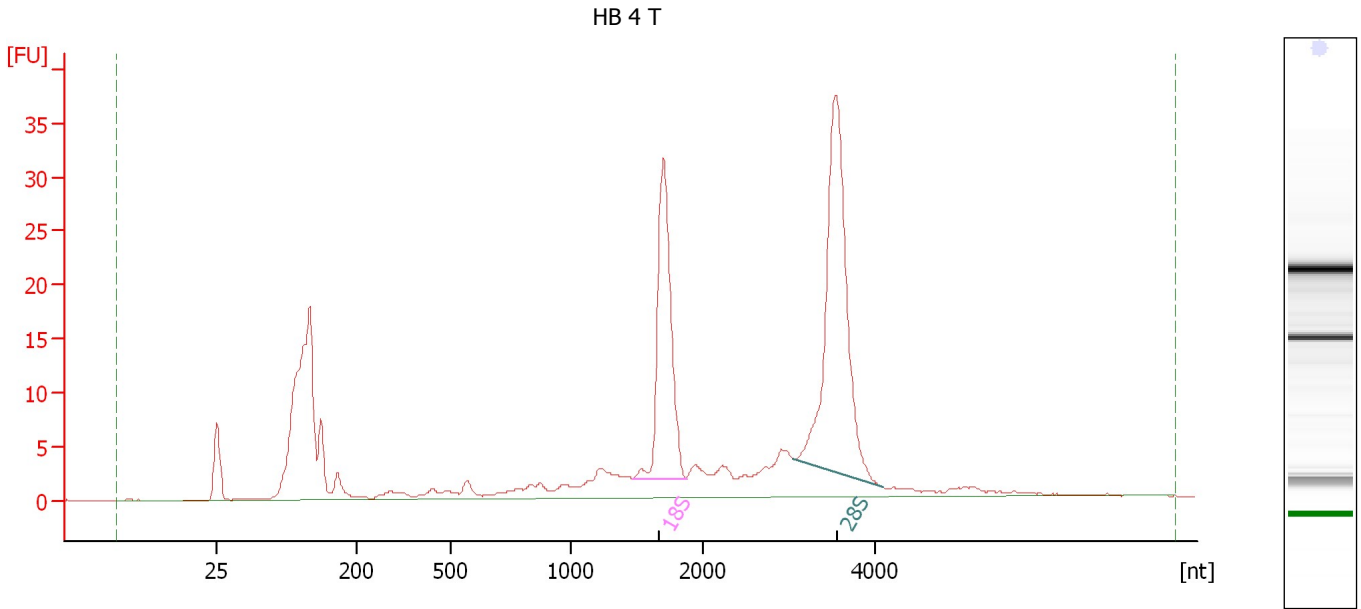
Fragment table for sample 6 : HB 3 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,537	1,944	50.4	16.4
28S	3,199	4,284	82.6	26.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HB 4 T

RNA Area:	288.3	RNA Integrity Number (RIN):	9 (B.02.08)
RNA Concentration:	2,279 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN:9

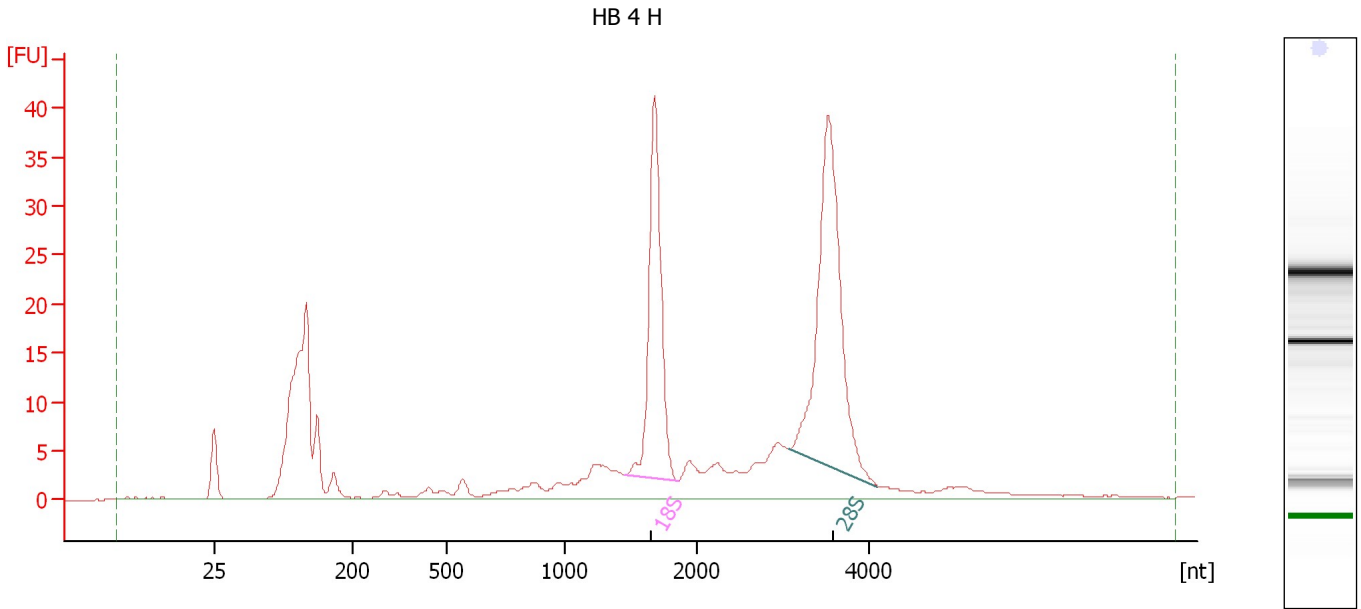
Fragment table for sample 7 : HB 4 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,460	1,873	46.2	16.0
28S	3,045	4,086	72.9	25.3

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
 Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HB 4 H

RNA Area:	335.8	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	2,655 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.90

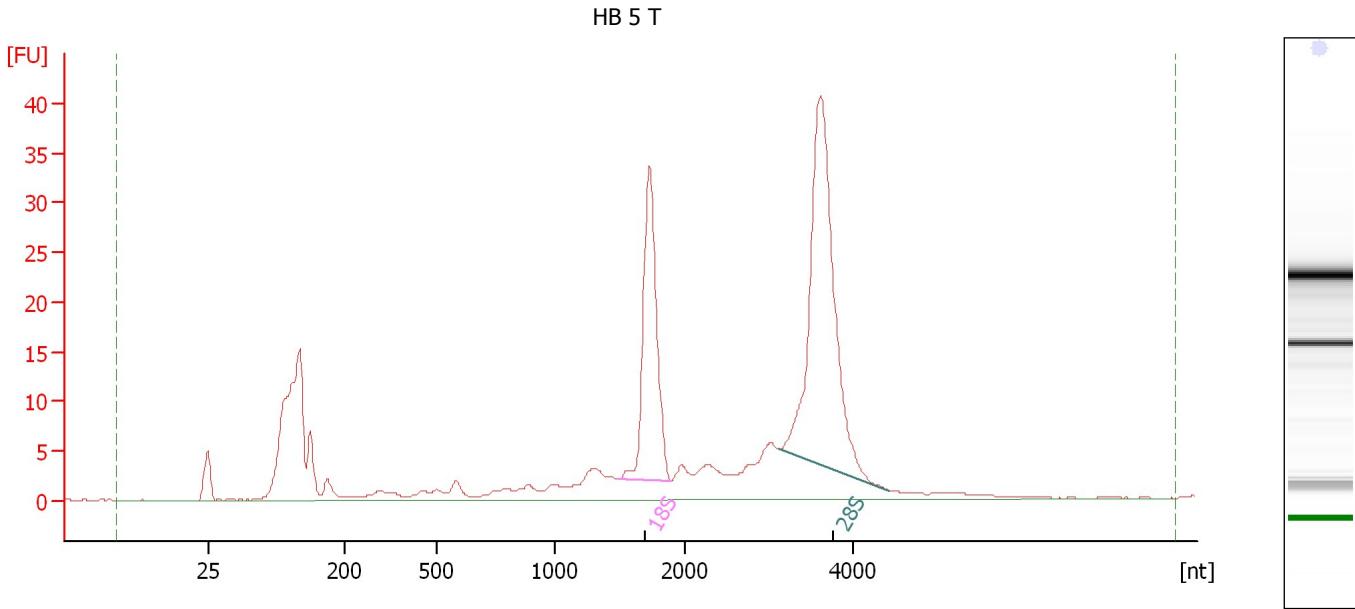
Fragment table for sample 8 : HB 4 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,455	1,854	57.4	17.1
28S	3,074	4,109	82.4	24.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
 Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HB 5 T

RNA Area:	323.4	RNA Integrity Number (RIN):	9.1 (B.02.08)
RNA Concentration:	2,557 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.10

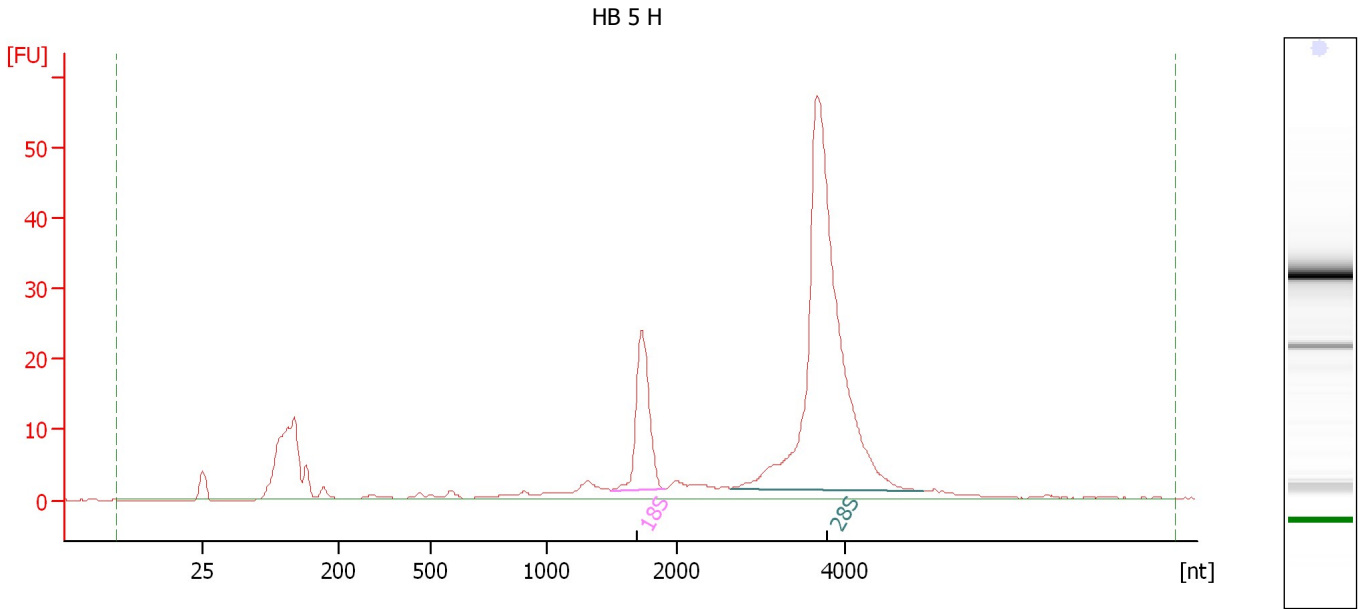
Fragment table for sample 9 : HB 5 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,495	1,899	51.0	15.8
28S	3,121	4,409	91.6	28.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HB 5 H

RNA Area: 332.1 RNA Integrity Number (RIN): 9.3 (B.02.08)
RNA Concentration: 2,626 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 4.7 Result Flagging Label: RIN: 9.30

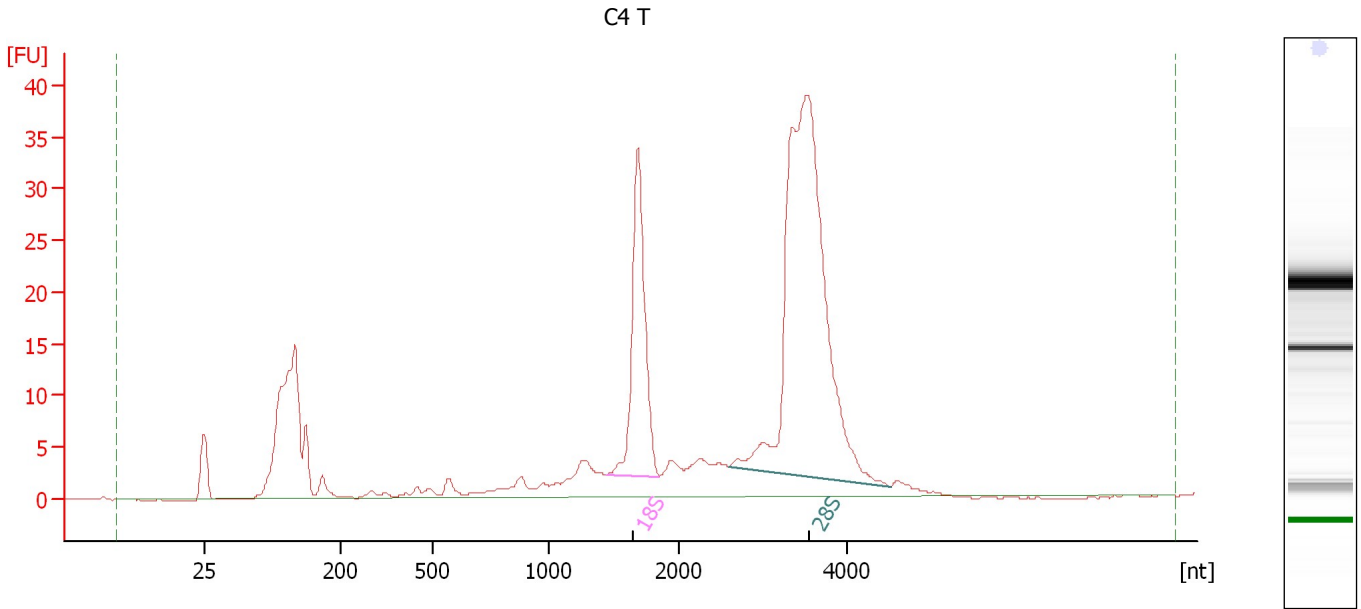
Fragment table for sample 10 : HB 5 H

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,497	1,904	36.6	11.0
28S	2,643	4,936	172.8	52.0

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
 Modified: 8/24/2016 11:47:13 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C4 T

RNA Area:	363.7	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	2,875 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	3.0	Result Flagging Label:	RIN: 9.50

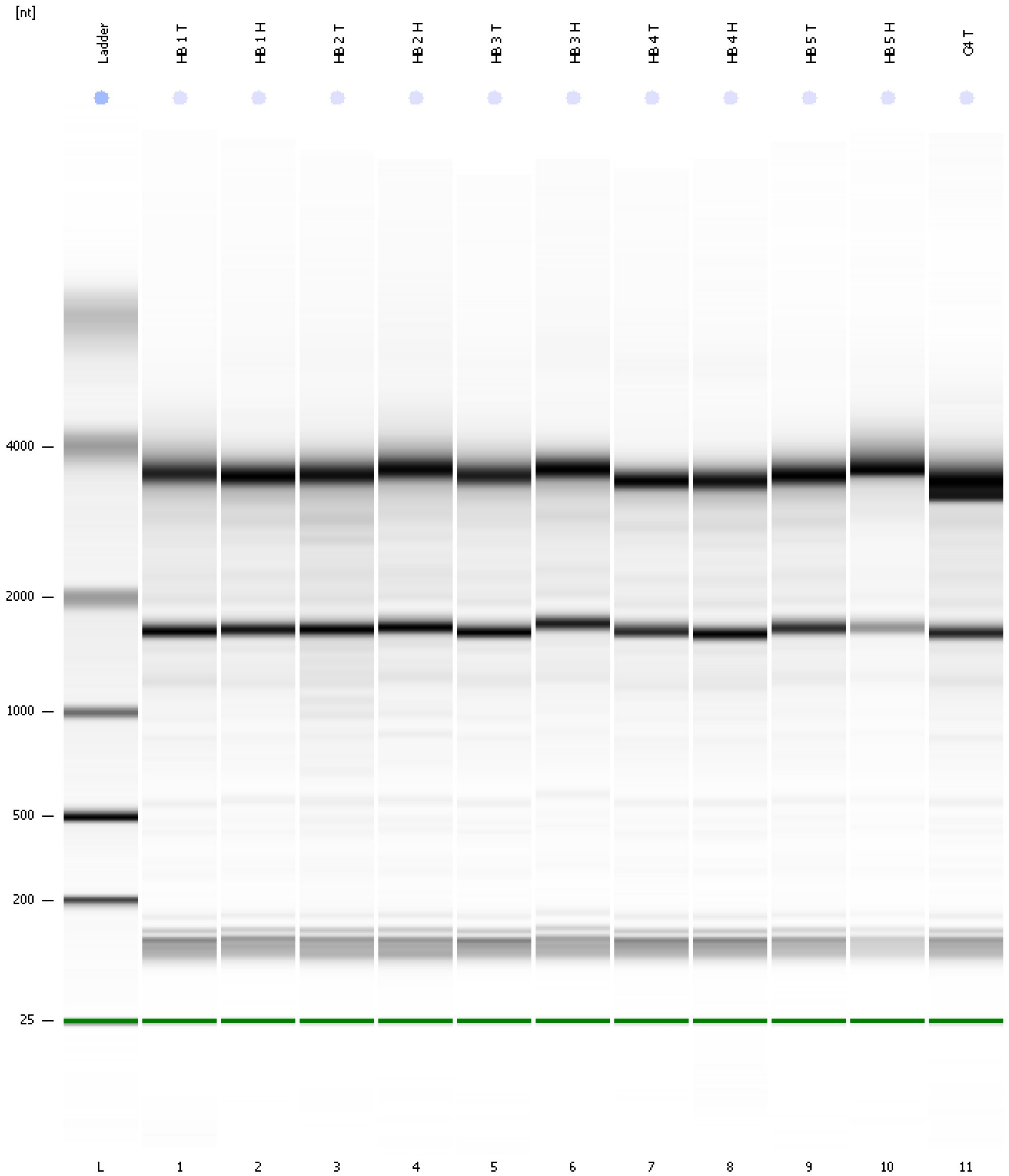
Fragment table for sample 11 : C4 T

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,440	1,855	49.4	13.6
28S	2,592	4,524	149.3	41.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
Modified: 8/24/2016 11:47:13 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-08-24\2016-08-24_001.xad

Created: 8/24/2016 11:24:18 AM
 Modified: 8/24/2016 11:47:13 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		8/24/2016 11:47:12 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\2016-08-24\2016-08-24_001.xad)		Instrument	Run		8/24/2016 11:24:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/24/2016 11:24:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/24/2016 11:24:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/24/2016 11:24:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/24/2016 11:24:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/24/2016 11:24:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/24/2016 11:24:23 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1