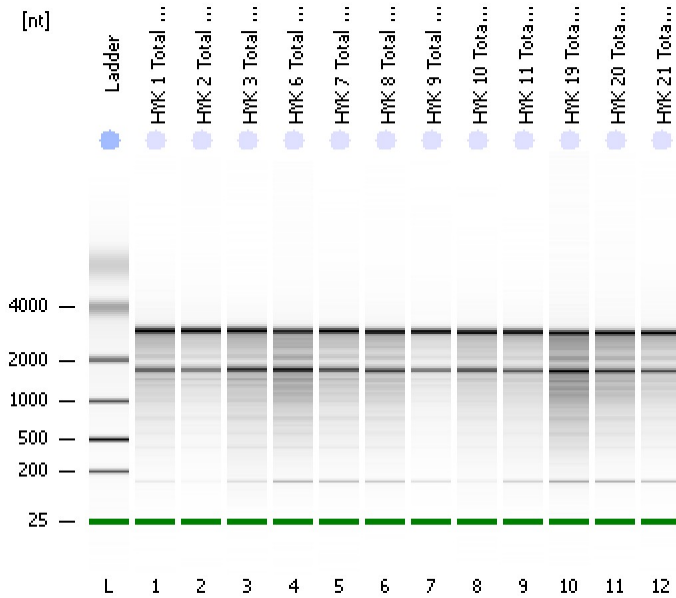


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electrophoresis File Run Summary



Instrument Information:

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

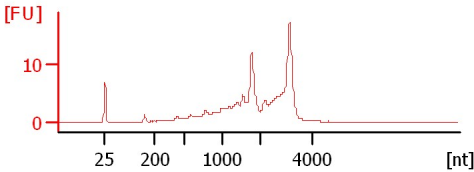
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Nano Series II.xsy
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)
© Copyright 2003 - 2009 Agilent Technologies, Inc.

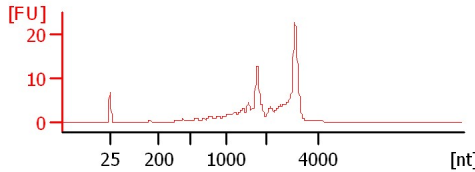
Chip Information:

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

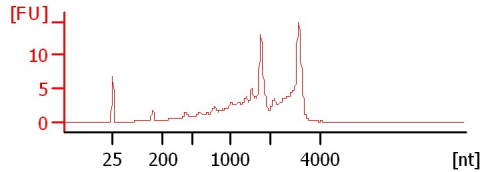
HYK 1 Total RNA
RIN: 7.70



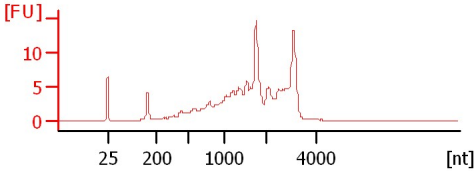
HYK 2 Total RNA
RIN: 8.20



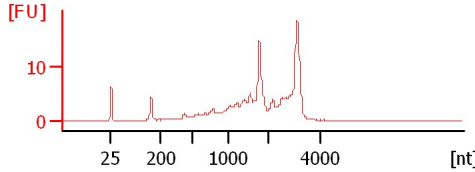
HYK 3 Total RNA
RIN: 7.10



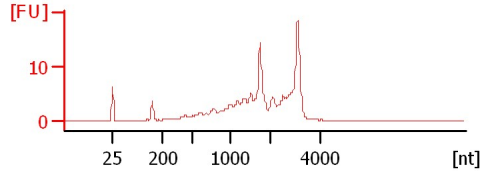
HYK 6 Total RNA
RIN: 6.70



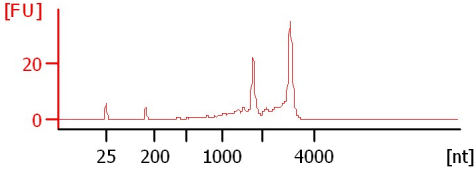
HYK 7 Total RNA
RIN: 7.40



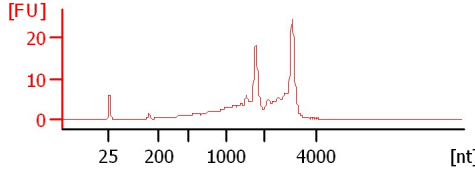
HYK 8 Total RNA
RIN: 7.10



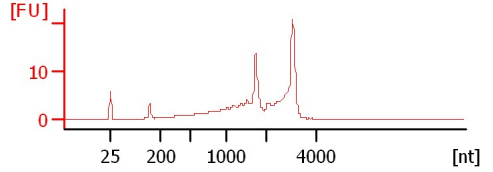
HYK 9 Total RNA
RIN: 8.30



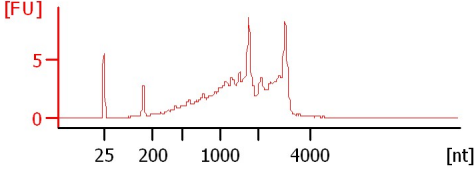
HYK 10 Total RNA
RIN: 7.60



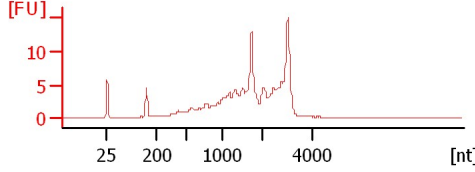
HYK 11 Total RNA
RIN: 7.80



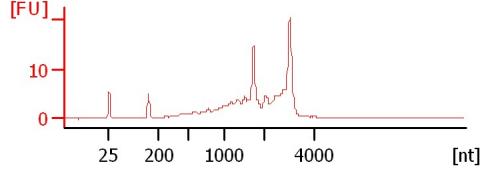
HYK 19 Total RNA
RIN: 6.60



HYK 20 Total RNA
RIN: 7.10



HYK 21 Total RNA
RIN: 7.70



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
 Modified: 8/19/2013 1:09:34 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
HYK 1 Total RNA		✓	RIN: 7.70	
HYK 2 Total RNA		✓	RIN: 8.20	
HYK 3 Total RNA		✓	RIN: 7.10	
HYK 6 Total RNA		✓	RIN: 6.70	
HYK 7 Total RNA		✓	RIN: 7.40	
HYK 8 Total RNA		✓	RIN: 7.10	
HYK 9 Total RNA		✓	RIN: 8.30	
HYK 10 Total RNA		✓	RIN: 7.60	
HYK 11 Total RNA		✓	RIN: 7.80	
HYK 19 Total RNA		✓	RIN: 6.60	
HYK 20 Total RNA		✓	RIN: 7.10	
HYK 21 Total RNA		✓	RIN: 7.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 19
End Analysis Time Range [s] : 69
Ladder Concentration [ng/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 19
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.5
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

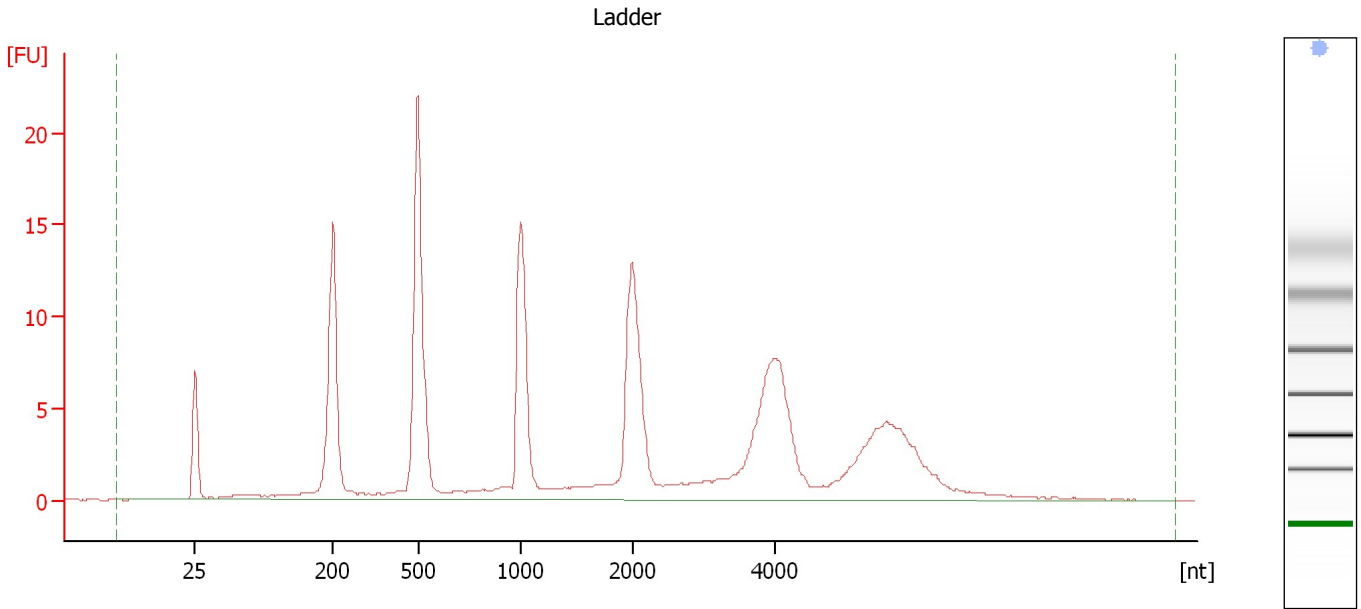
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary



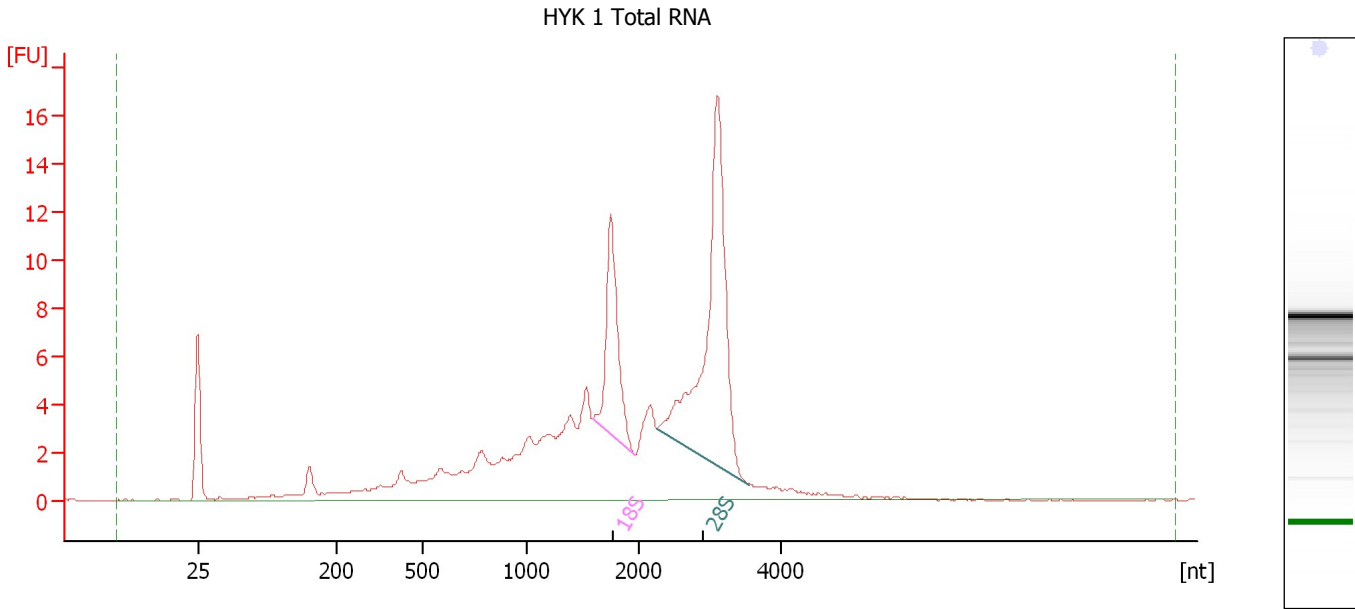
Overall Results for Ladder

RNA Area:	182.8	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : HYK 1 Total RNA

RNA Area: 140.6 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 115 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.6 Result Flagging Label: RIN: 7.70

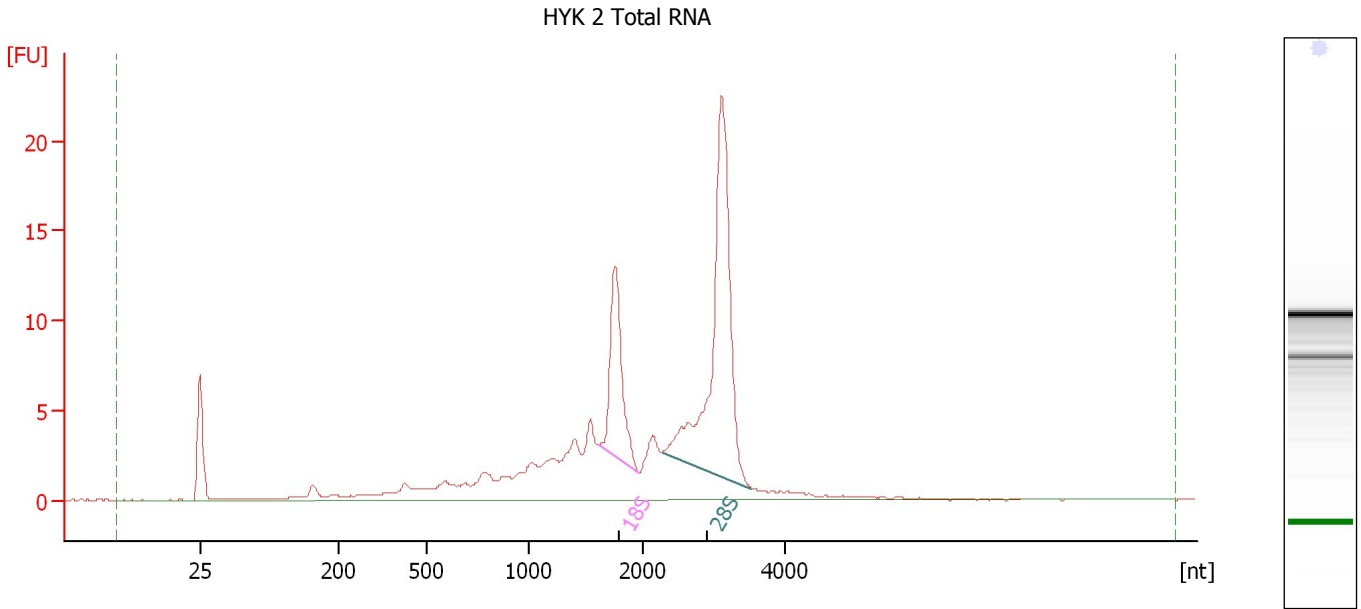
Fragment table for sample 1 : HYK 1 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,592	1,965	13.2	9.4
28S	2,259	3,544	33.8	24.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : HYK 2 Total RNA

RNA Area: 138.7 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 114 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.8 Result Flagging Label: RIN: 8.20

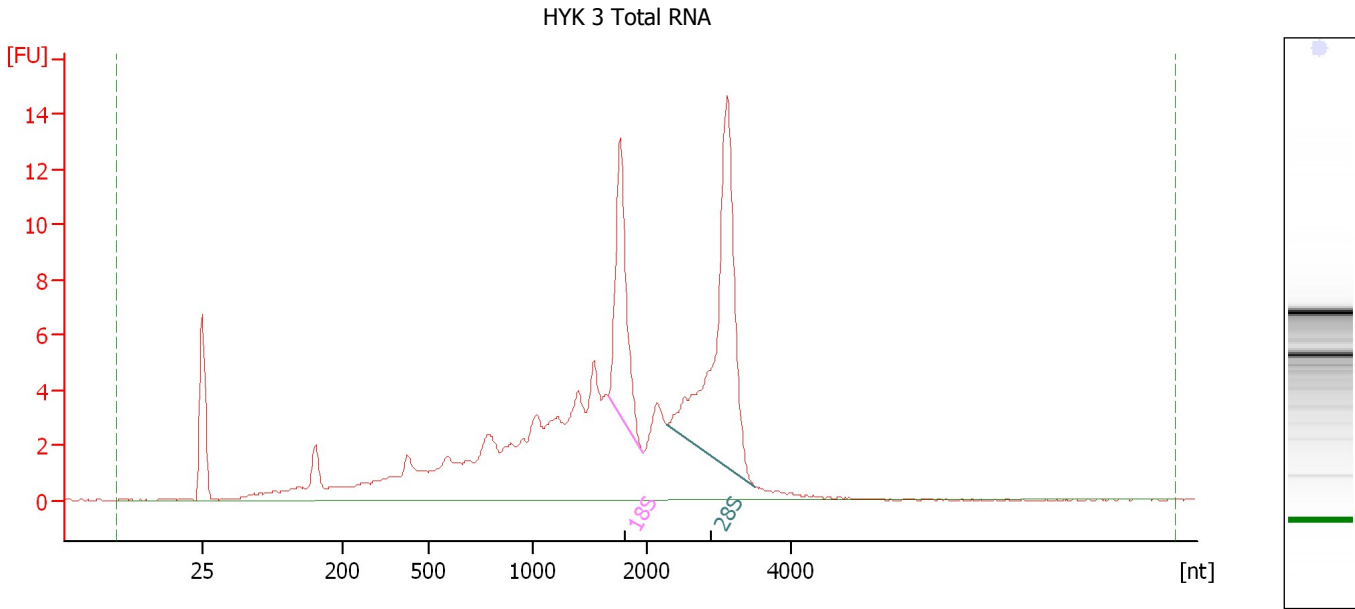
Fragment table for sample 2 : HYK 2 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,615	1,977	15.1	10.9
28S	2,276	3,526	42.8	30.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : HYK 3 Total RNA

RNA Area: 144.8 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 119 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 7.10

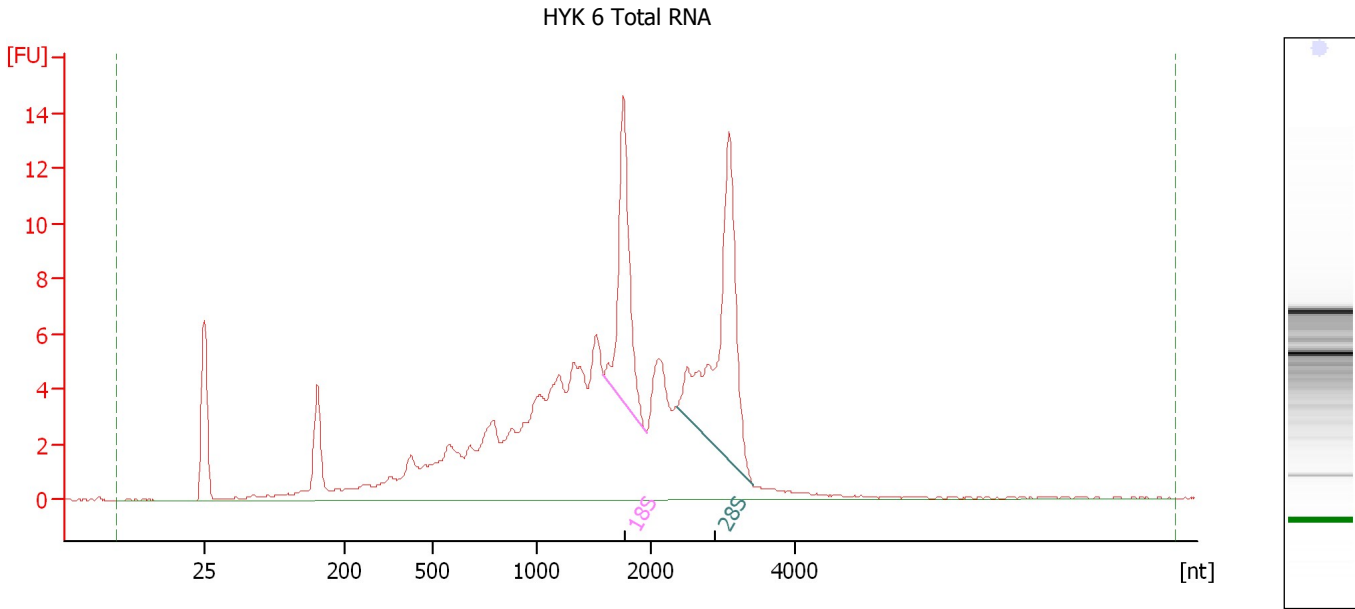
Fragment table for sample 3 : HYK 3 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,666	1,969	13.4	9.3
28S	2,293	3,508	28.9	20.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : HYK 6 Total RNA

RNA Area: 167.6 RNA Integrity Number (RIN): 6.7 (B.02.08)
RNA Concentration: 137 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 6.70

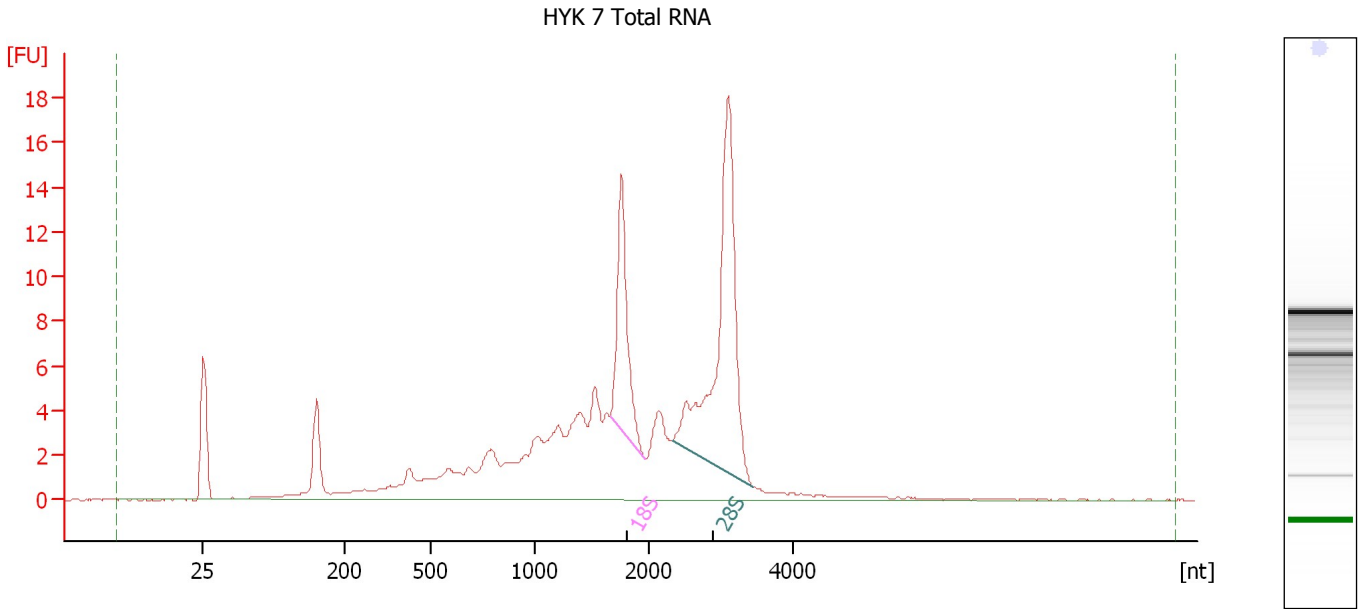
Fragment table for sample 4 : HYK 6 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,585	1,962	15.0	8.9
28S	2,369	3,416	24.9	14.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HYK 7 Total RNA

RNA Area: 149.8 RNA Integrity Number (RIN): 7.4 (B.02.08)
RNA Concentration: 123 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.4 Result Flagging Label: RIN: 7.40

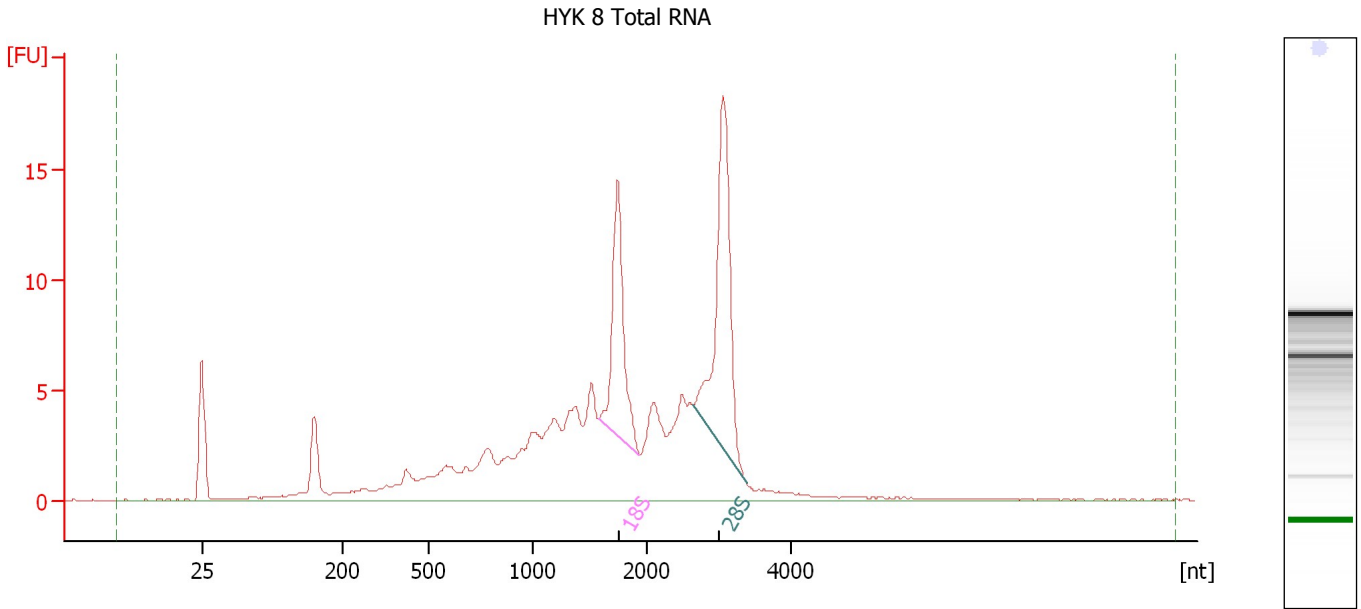
Fragment table for sample 5 : HYK 7 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,668	1,971	14.1	9.4
28S	2,353	3,447	33.8	22.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : HYK 8 Total RNA

RNA Area: 156.3 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 128 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 7.10

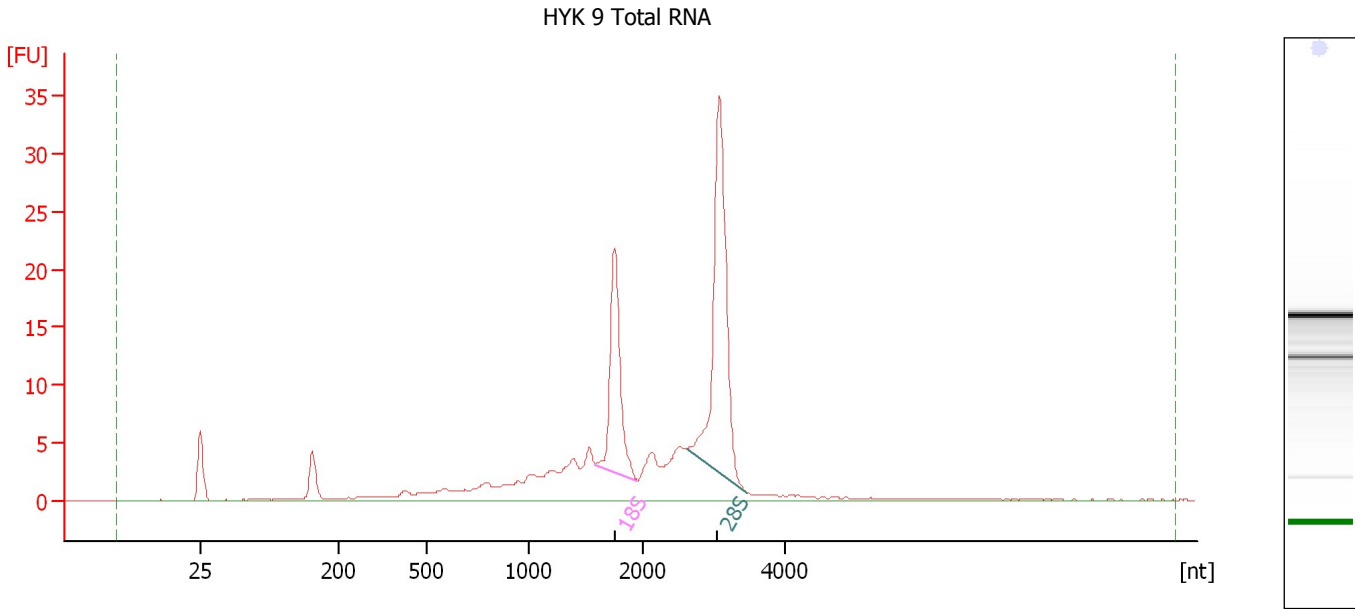
Fragment table for sample 6 : HYK 8 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,581	1,941	15.7	10.0
28S	2,649	3,389	24.6	15.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HYK 9 Total RNA

RNA Area:	169.6	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	139 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 8.30

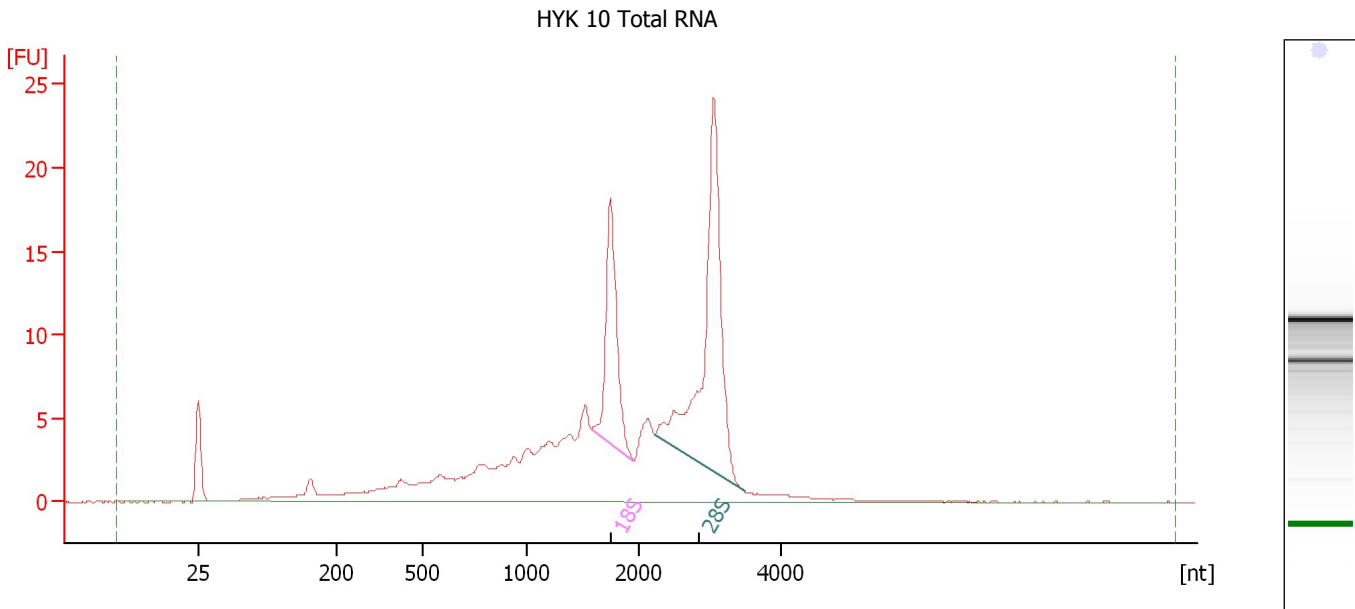
Fragment table for sample 7 : HYK 9 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	1,957	23.3	13.8
28S	2,618	3,451	47.4	28.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : HYK 10 Total RNA

RNA Area: 182.6 RNA Integrity Number (RIN): 7.6 (B.02.08)
RNA Concentration: 150 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.2 Result Flagging Label: RIN: 7.60

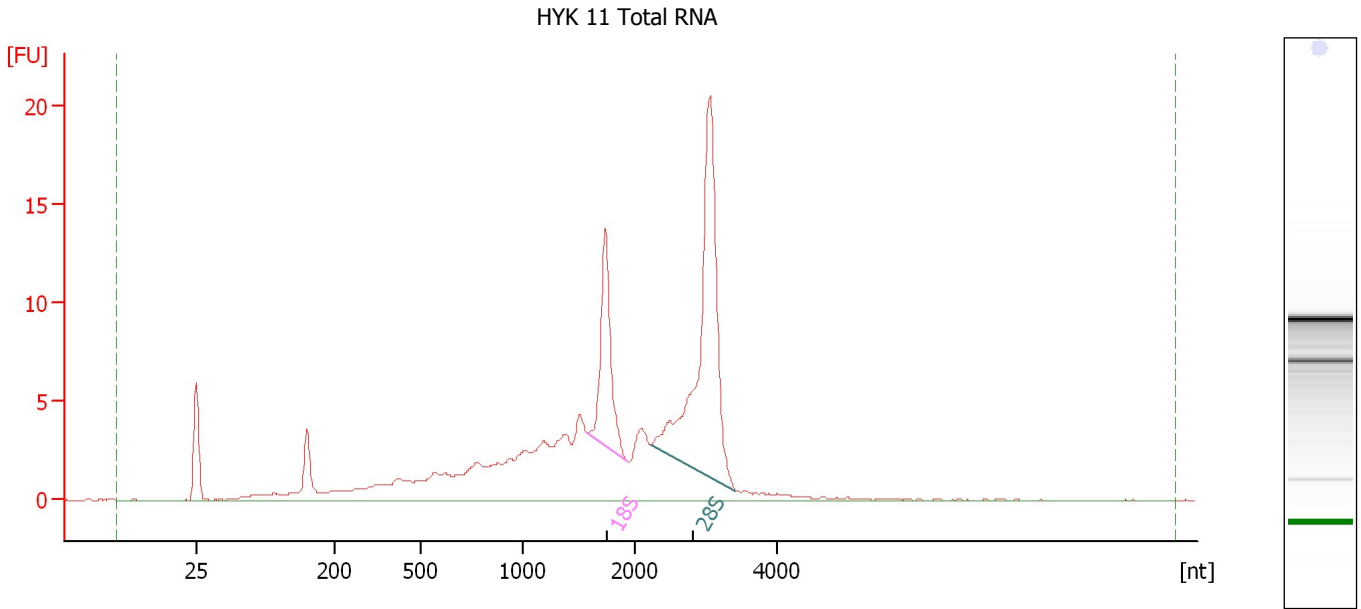
Fragment table for sample 8 : HYK 10 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,582	1,955	19.8	10.9
28S	2,244	3,484	43.0	23.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : HYK 11 Total RNA

RNA Area: 151.4 RNA Integrity Number (RIN): 7.8 (B.02.08)
RNA Concentration: 124 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.7 Result Flagging Label: RIN: 7.80

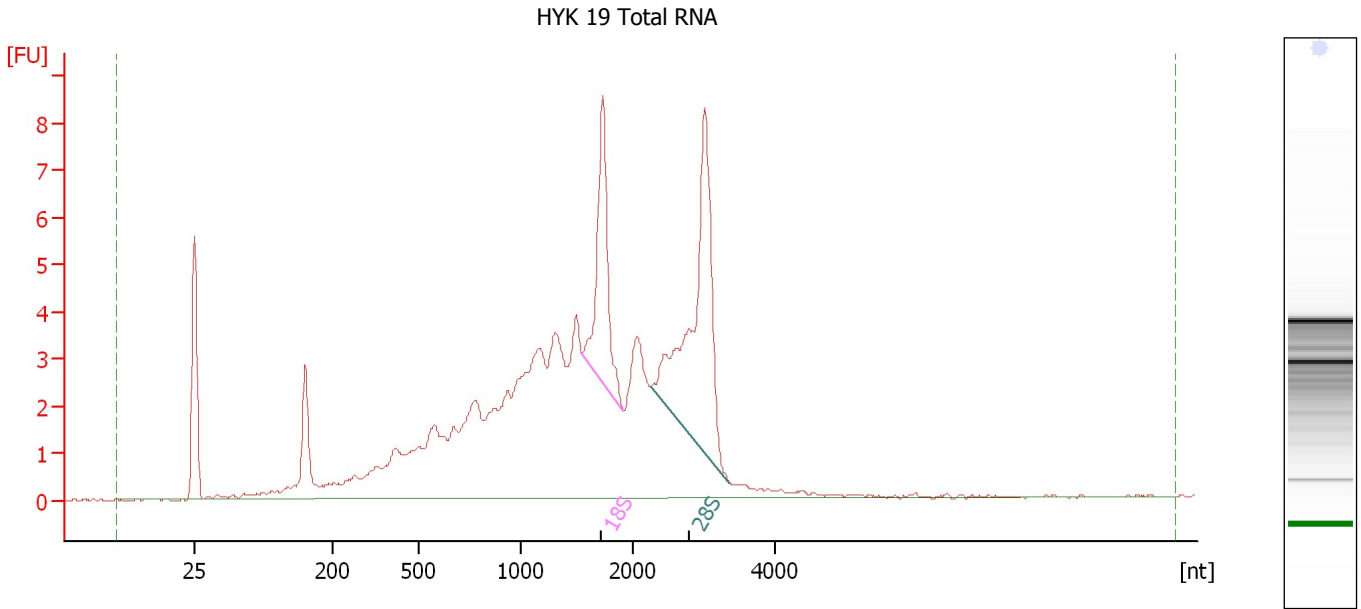
Fragment table for sample 9 : HYK 11 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,578	1,943	14.1	9.3
28S	2,241	3,427	38.0	25.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : HYK 19 Total RNA

RNA Area:	115.2	RNA Integrity Number (RIN):	6.6 (B.02.08)
RNA Concentration:	95 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 6.60

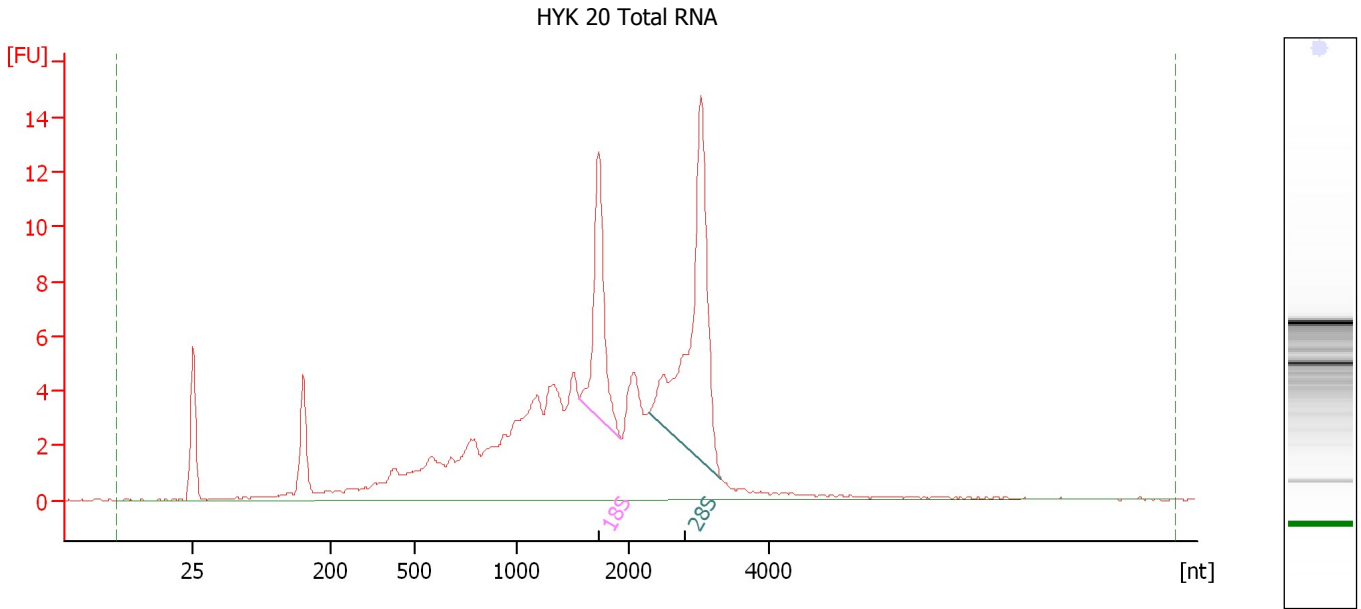
Fragment table for sample 10 : HYK 19 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,548	1,923	7.9	6.9
28S	2,255	3,368	16.1	13.9

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
 Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : HYK 20 Total RNA

RNA Area:	149.1	RNA Integrity Number (RIN):	7.1 (B.02.08)
RNA Concentration:	122 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 7.10

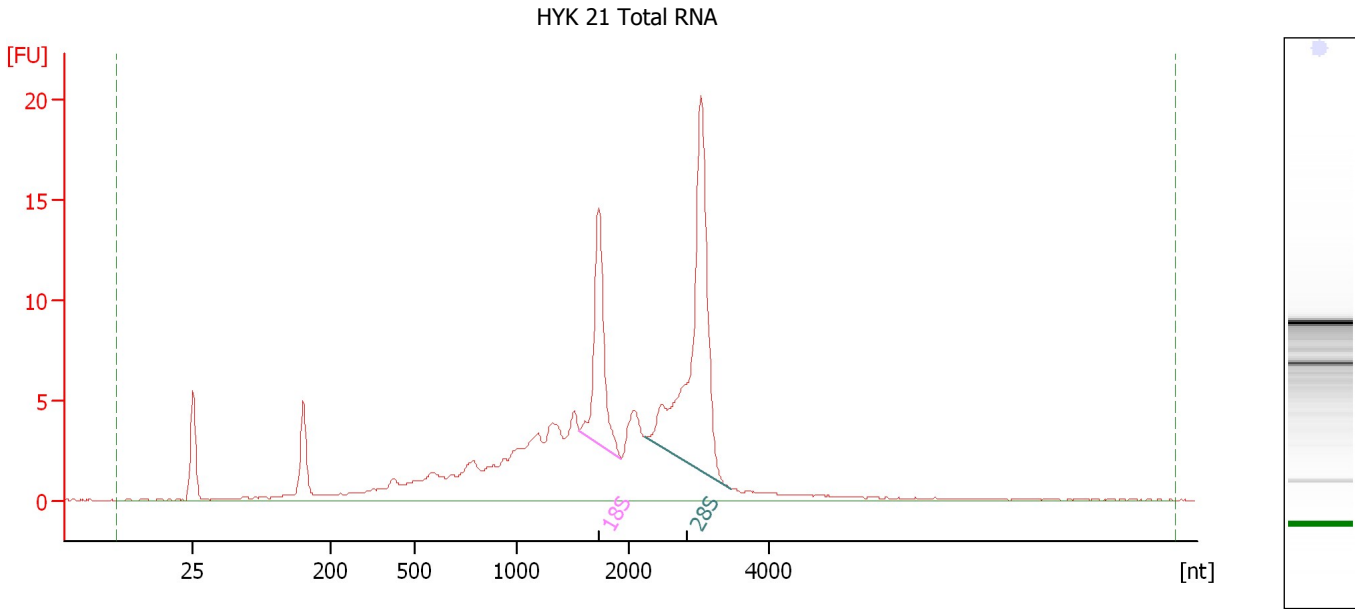
Fragment table for sample 11 : HYK 20 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,563	1,939	12.2	8.2
28S	2,298	3,325	26.8	18.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : HYK 21 Total RNA

RNA Area: 154.8 RNA Integrity Number (RIN): 7.7 (B.02.08)
RNA Concentration: 127 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 7.70

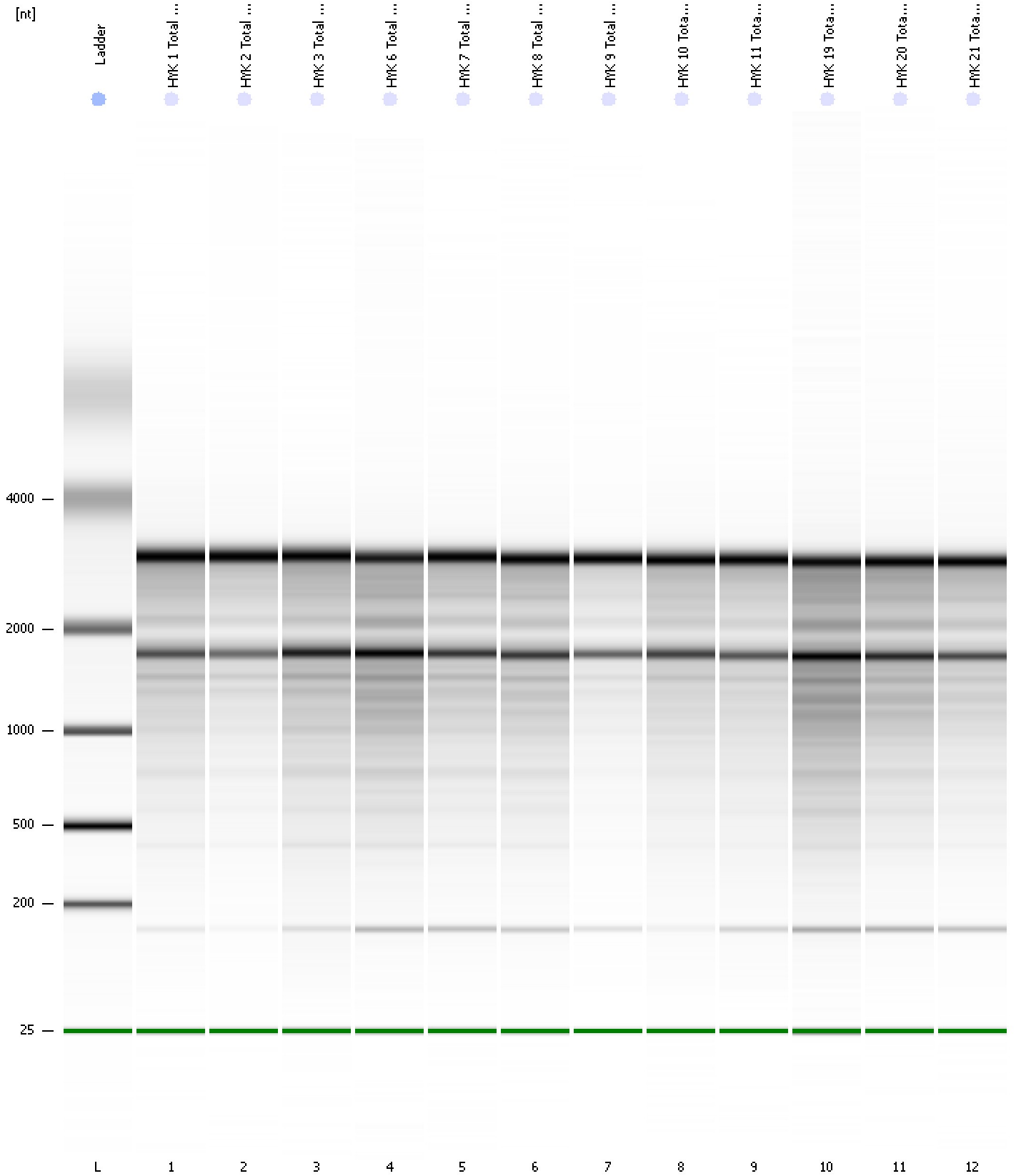
Fragment table for sample 12 : HYK 21 Total RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,563	1,939	14.1	9.1
28S	2,238	3,446	35.7	23.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
Modified: 8/19/2013 1:09:34 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad

Created: 8/19/2013 12:45:45 PM
 Modified: 8/19/2013 1:09:34 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		8/19/2013 1:09:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-19\2013-08-19_001.xad)		Instrument	Run		8/19/2013 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		8/19/2013 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/19/2013 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/19/2013 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		8/19/2013 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/19/2013 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/19/2013 12:45:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1