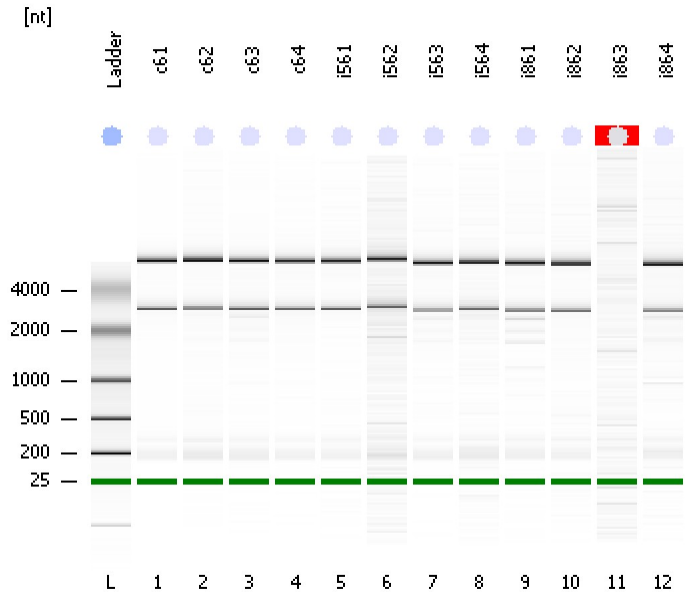


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electrophoresis File Run Summary



Instrument Information:

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

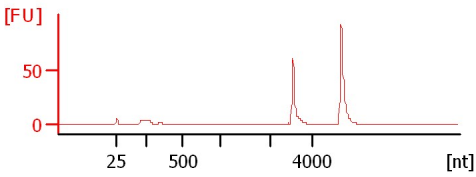
Assay Information:

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.

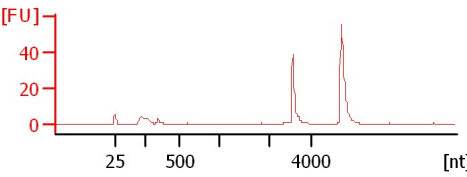
Chip Information:

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

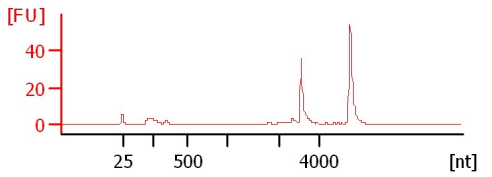
c61
RIN: 10



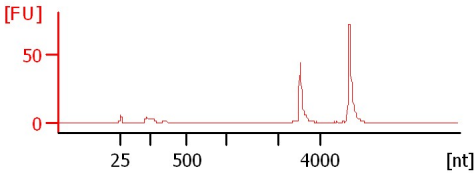
c62
RIN: 9.90



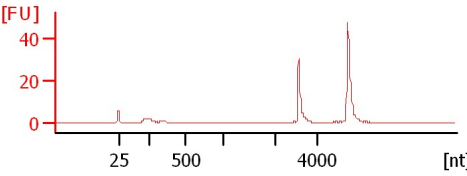
c63
RIN: 9.40



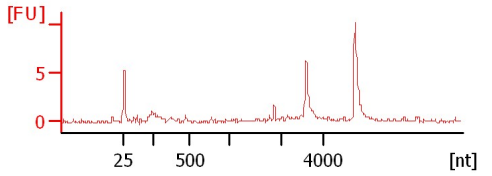
c64
RIN: 9.80



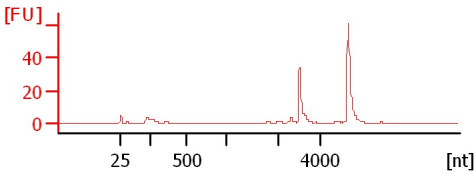
i561
RIN: 10



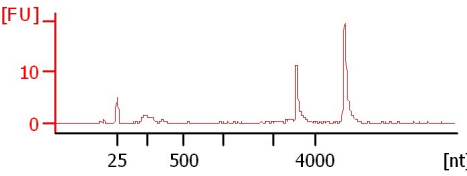
i562
RIN: 8.60



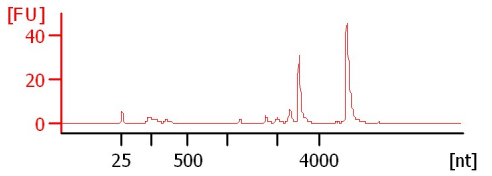
i563
RIN: 9.40



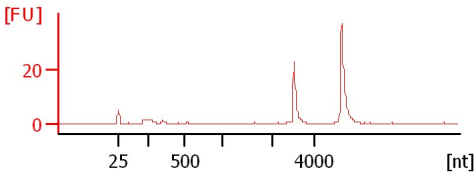
i564
RIN: 9.30



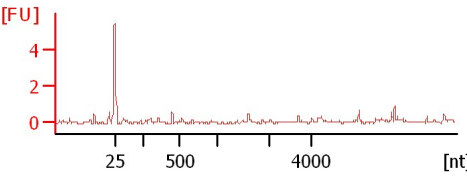
i861
RIN: 9.20



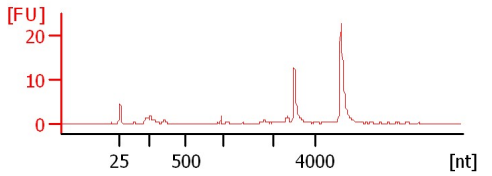
i862
RIN: 9.80



i863
bad
RIN N/A



i864
RIN: 9.20



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
 Modified: 4/29/2016 12:08:20 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
c61		✓	RIN:10	
c62		✓	RIN: 9.90	
c63		✓	RIN: 9.40	
c64		✓	RIN: 9.80	
i561		✓	RIN:10	
i562		✓	RIN: 8.60	
i563		✓	RIN: 9.40	
i564		✓	RIN: 9.30	
i861		✓	RIN: 9.20	
i862		✓	RIN: 9.80	
i863	bad	✓	RIN N/A	
i864		✓	RIN: 9.20	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 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

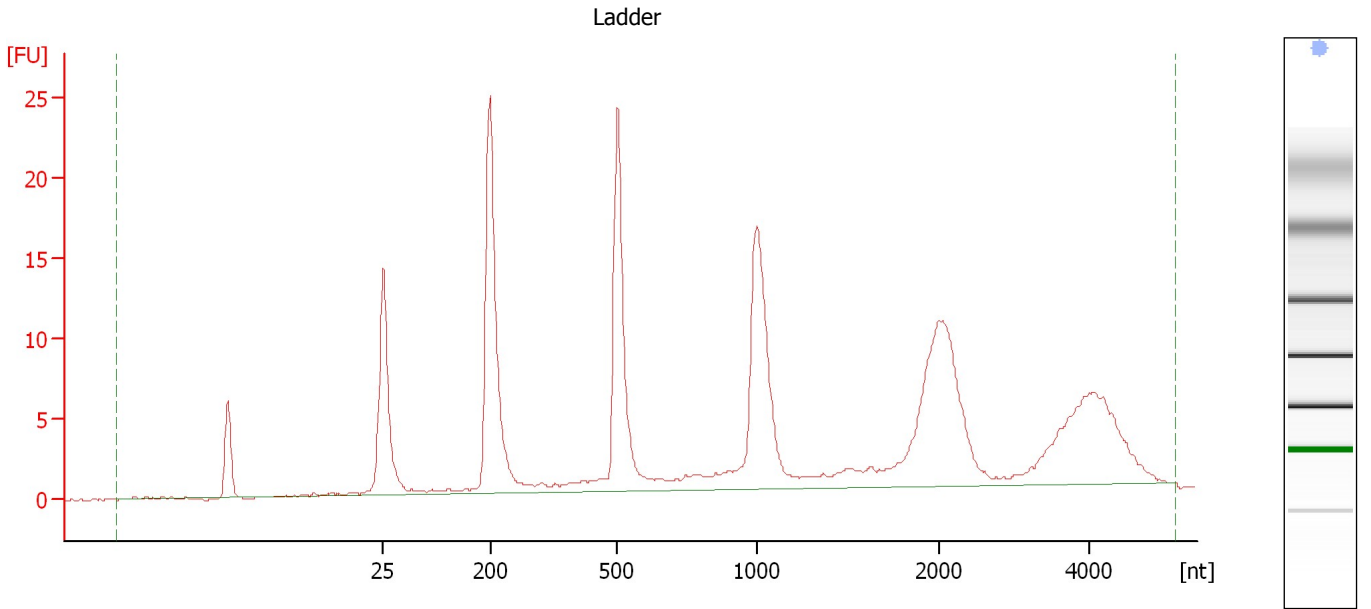
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary



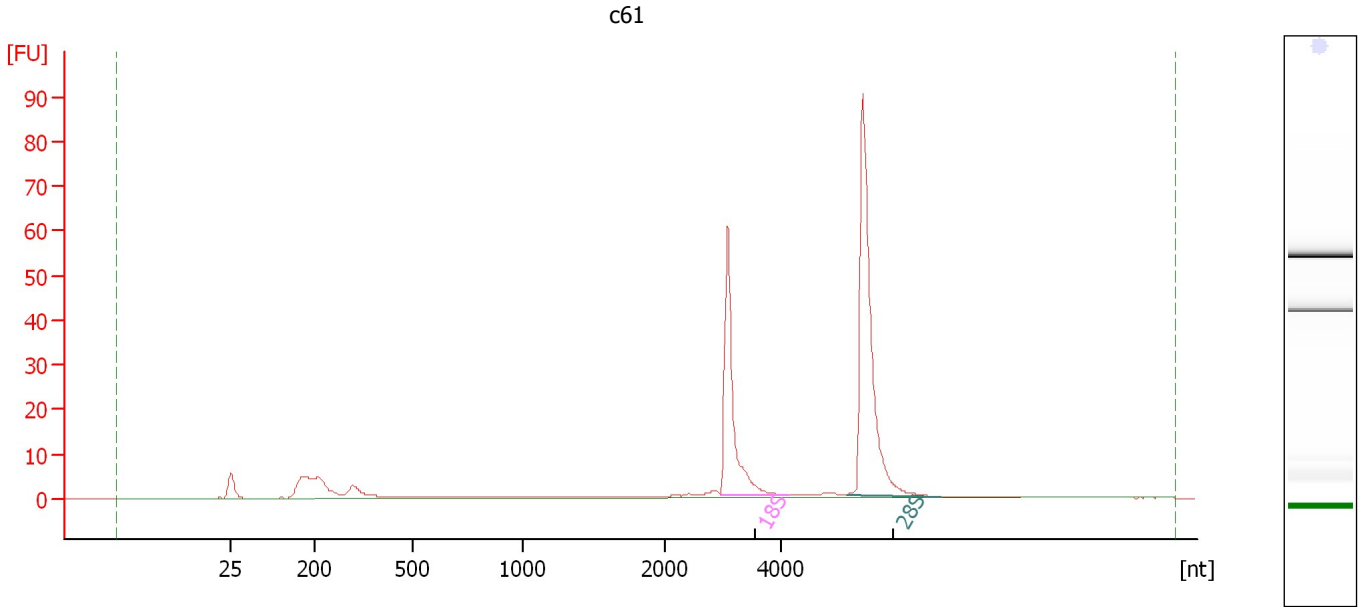
Overall Results for Ladder

RNA Area:	197.9	Result Flagging Color:	
RNA Concentration:	150 ng/ μ l	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : c61

RNA Area:	220.6	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	167 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:10

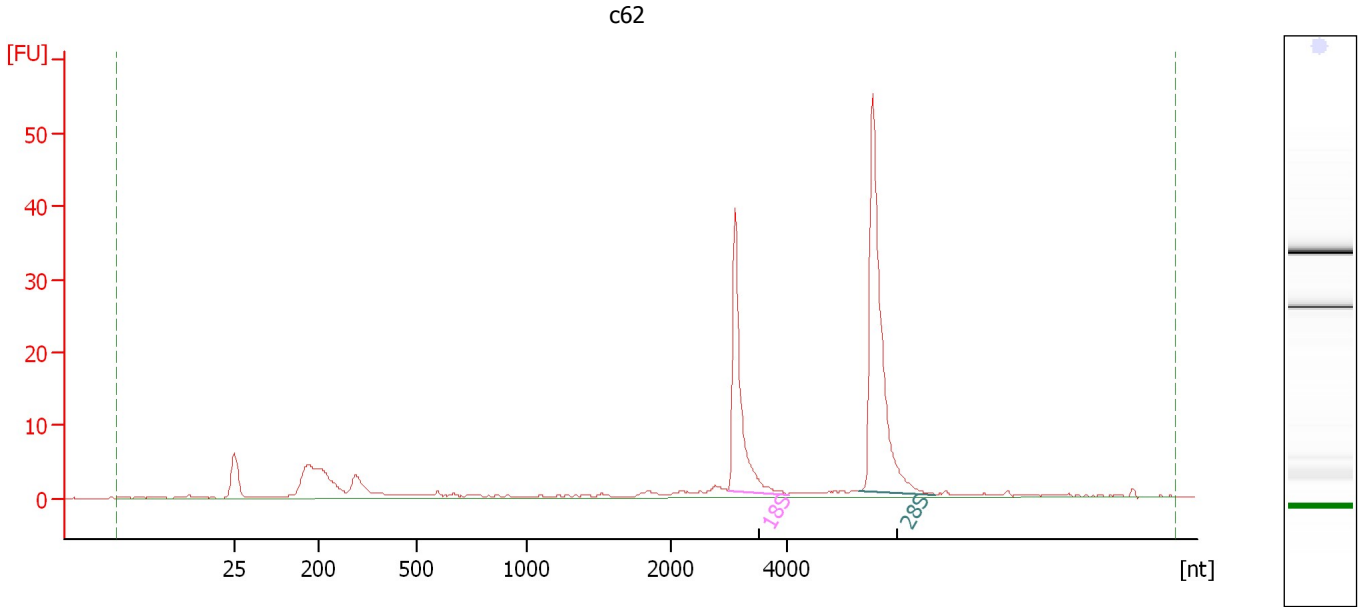
Fragment table for sample 1 : c61

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,969	4,126	54.2	24.6
28S	5,136	6,753	93.2	42.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : c62

RNA Area:	169.3	RNA Integrity Number (RIN):	9.9 (B.02.08)
RNA Concentration:	128 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.90

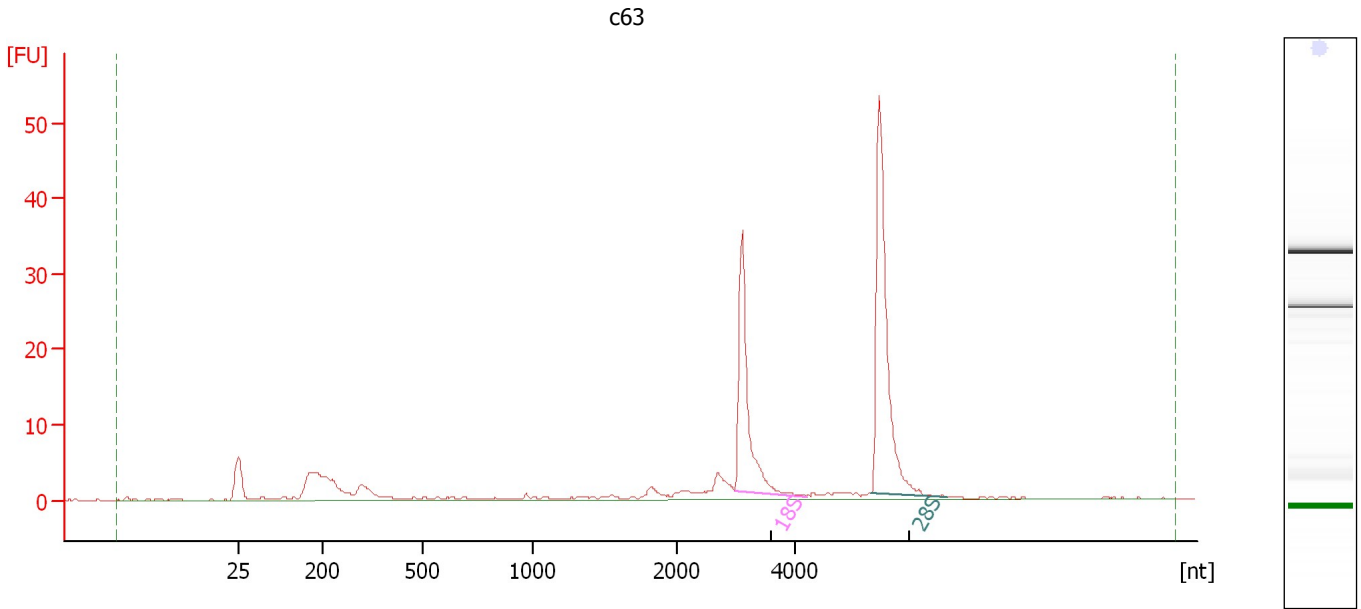
Fragment table for sample 2 : c62

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,991	4,014	35.0	20.7
28S	5,219	6,515	61.7	36.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : c63

RNA Area: 146.9 RNA Integrity Number (RIN): 9.4 (B.02.08)
RNA Concentration: 111 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.6 Result Flagging Label: RIN: 9.40

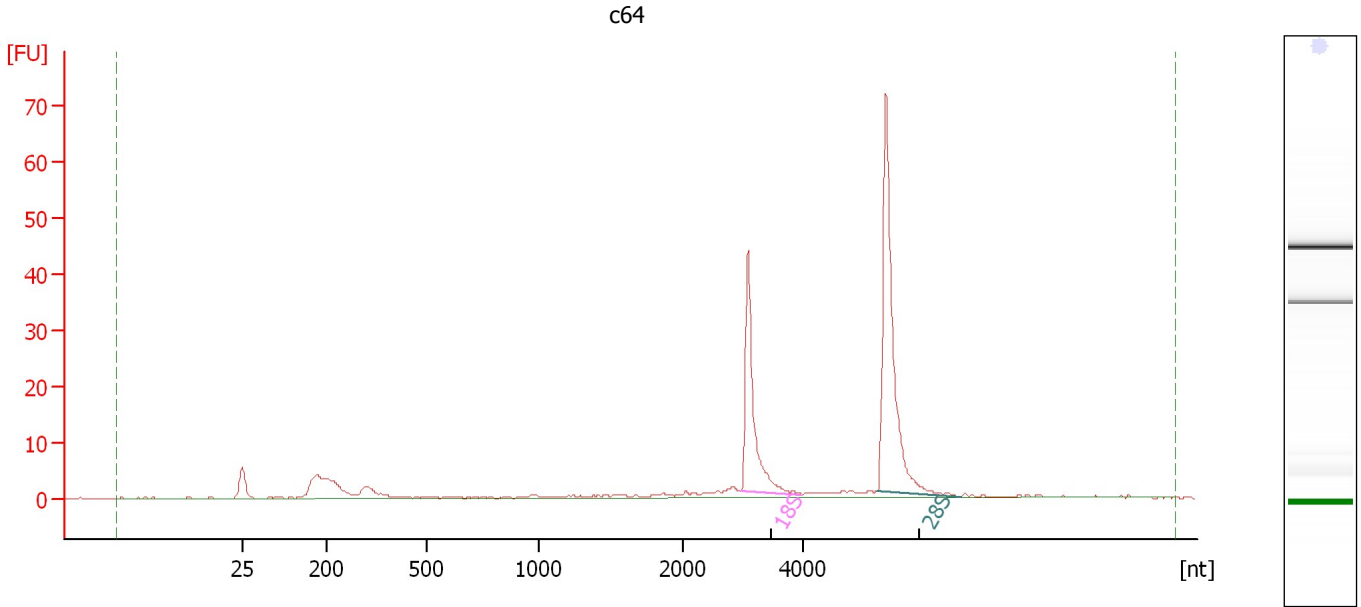
Fragment table for sample 3 : c63

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,961	4,174	31.6	21.5
28S	5,279	6,565	51.0	34.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : c64

RNA Area:	172.4	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	131 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.80

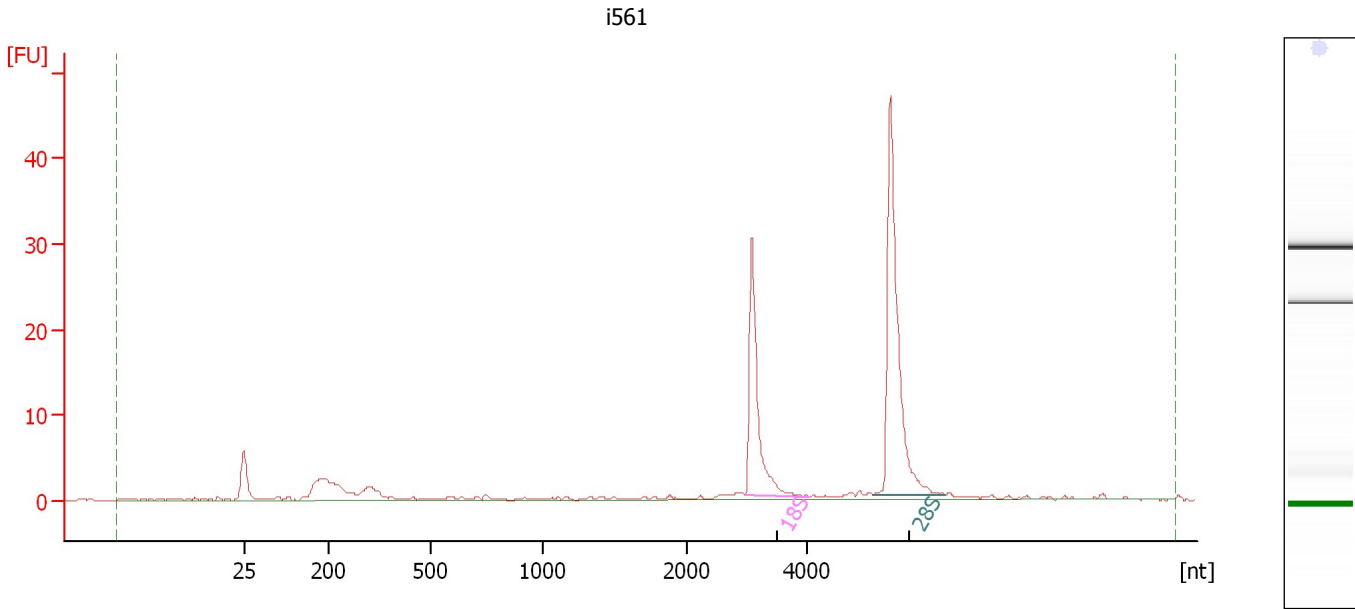
Fragment table for sample 4 : c64

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,965	3,991	38.8	22.5
28S	5,270	6,674	68.5	39.7

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : i561

RNA Area:	113.9	RNA Integrity Number (RIN):	10 (B.02.08)
RNA Concentration:	86 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN:10

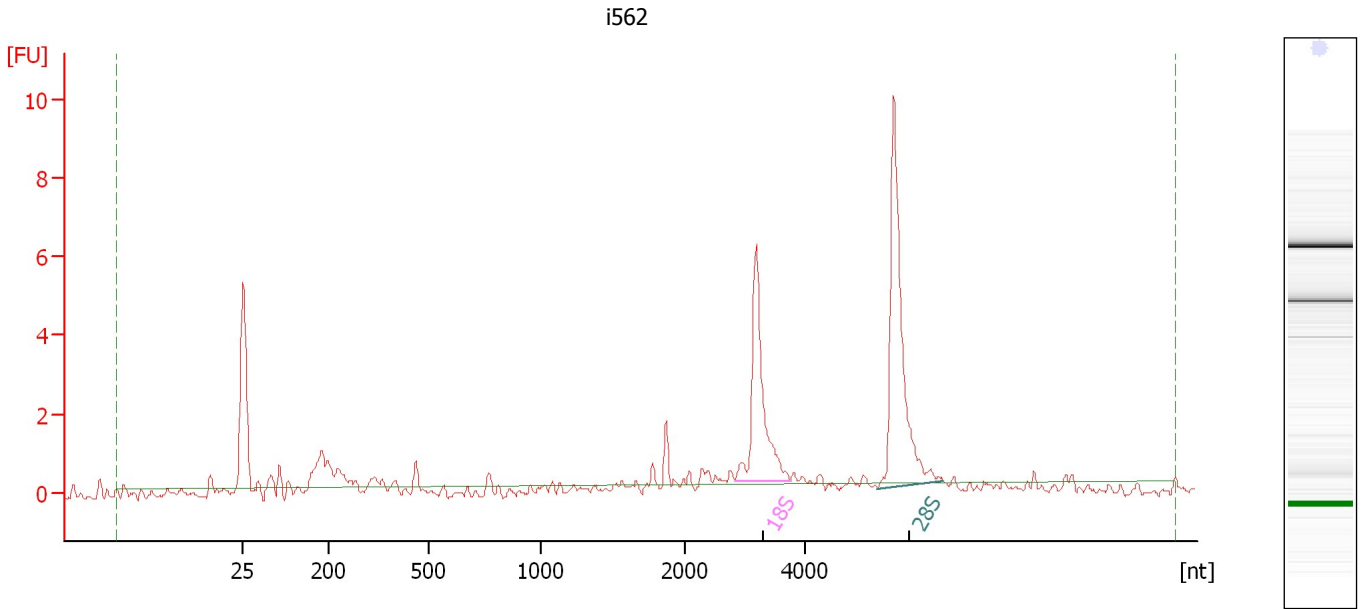
Fragment table for sample 5 : i561

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,968	4,044	26.5	23.3
28S	5,120	6,322	46.3	40.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : i562

RNA Area: 25.5 RNA Integrity Number (RIN): 8.6 (B.02.08)
RNA Concentration: 19 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.5 Result Flagging Label: RIN: 8.60

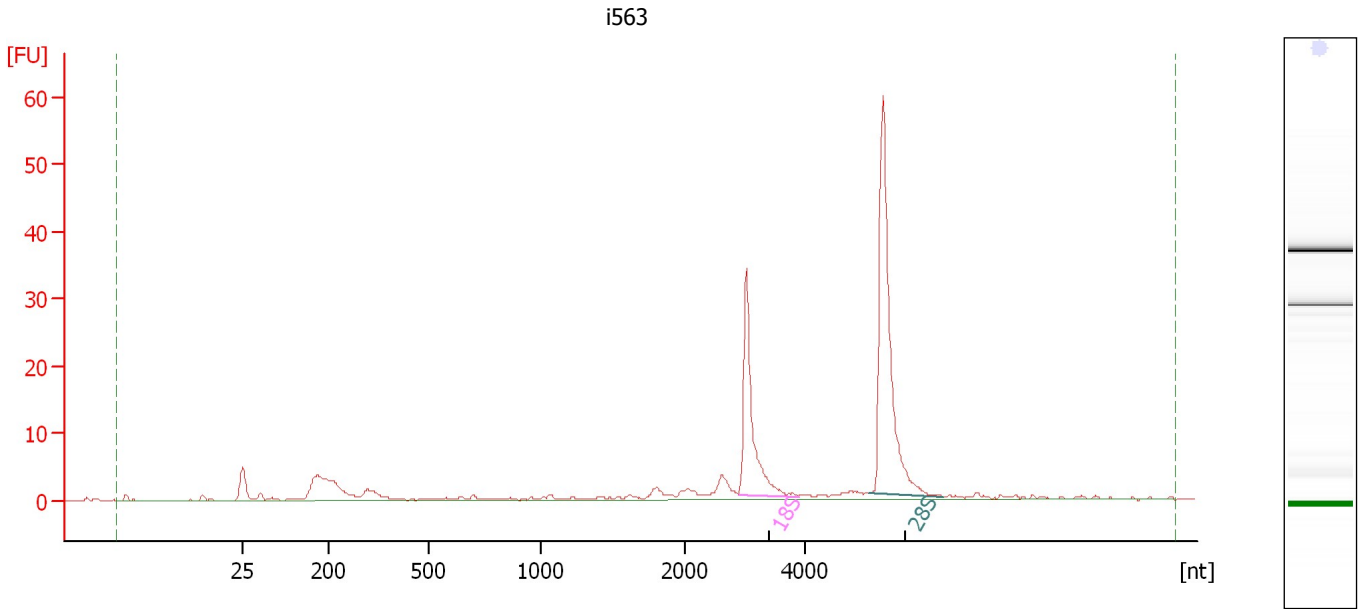
Fragment table for sample 6 : i562

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,841	3,757	6.9	27.2
28S	5,231	6,327	10.4	40.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : i563

RNA Area:	151.9	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	115 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.40

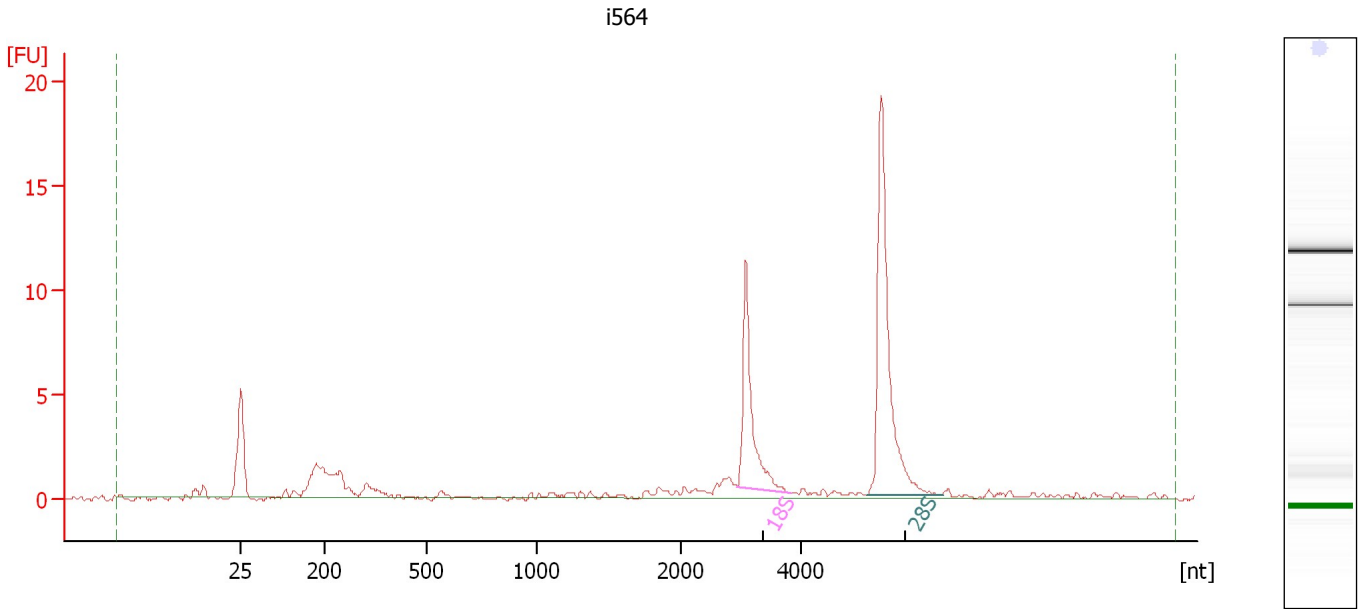
Fragment table for sample 7 : i563

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,895	3,901	32.0	21.1
28S	5,087	6,345	58.6	38.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
 Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : i564

RNA Area:	53.8	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	41 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.30

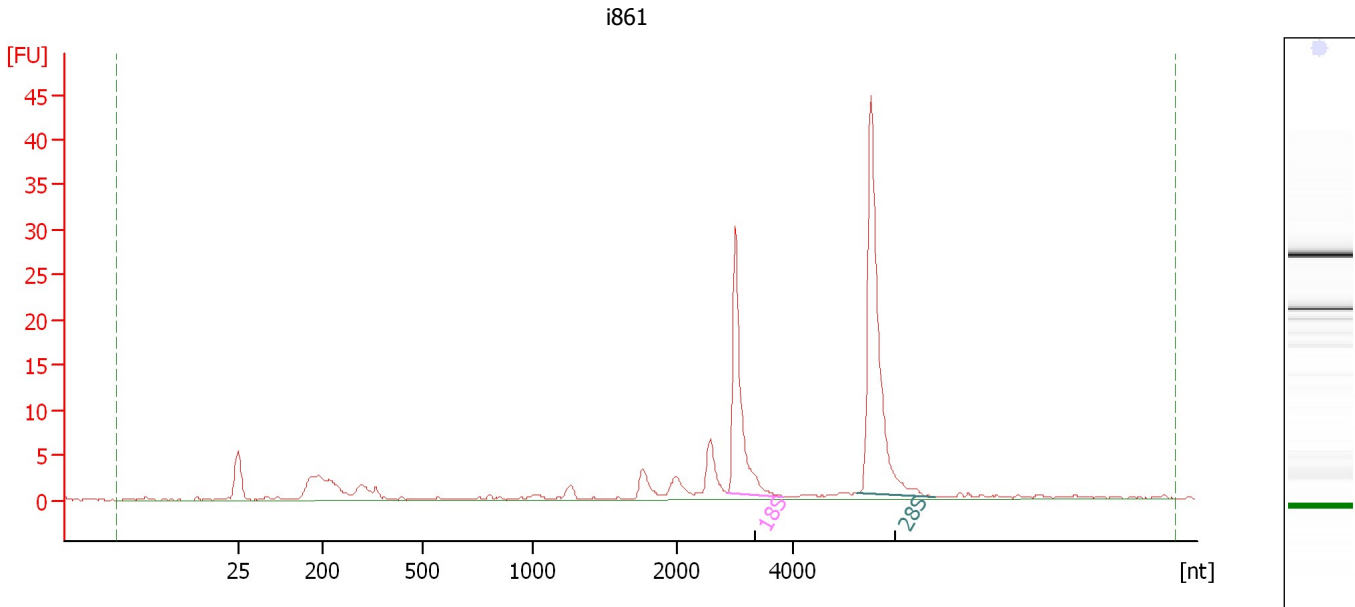
Fragment table for sample 8 : i564

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,946	3,848	10.5	19.6
28S	5,128	6,409	19.4	36.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
 Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : i861

RNA Area:	131.1	RNA Integrity Number (RIN):	9.2 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	99 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.20

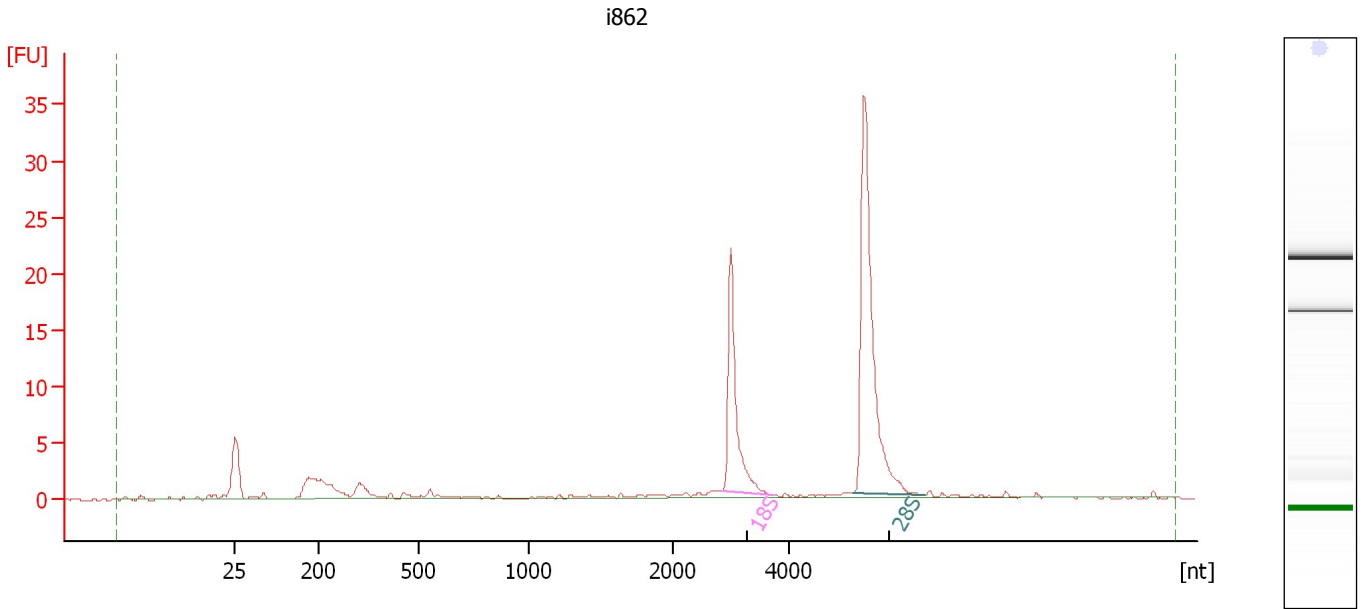
Fragment table for sample 9 : i861

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,850	3,830	26.6	20.3
28S	5,064	6,389	47.3	36.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : i862

RNA Area:	90.2	RNA Integrity Number (RIN):	9.8 (B.02.08)
RNA Concentration:	68 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.80

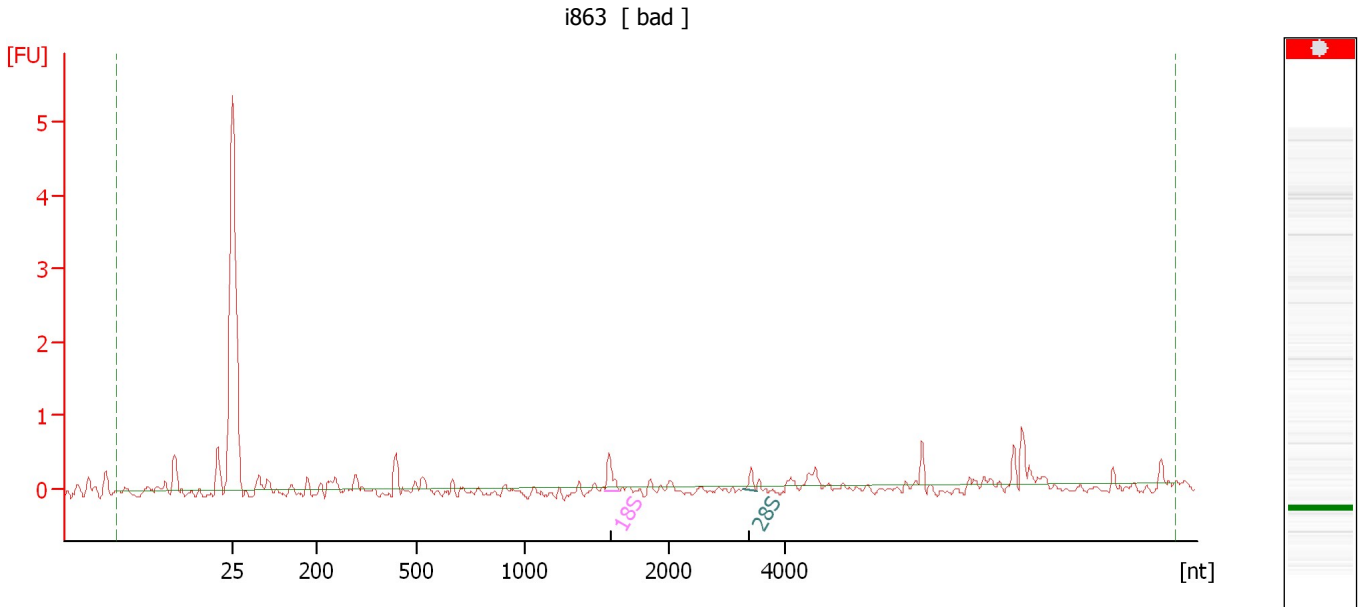
Fragment table for sample 10 : i862

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,865	3,703	19.8	21.9
28S	5,070	6,327	38.8	43.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : i863

RNA Area:	4.6	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.4	Result Flagging Label:	RIN N/A

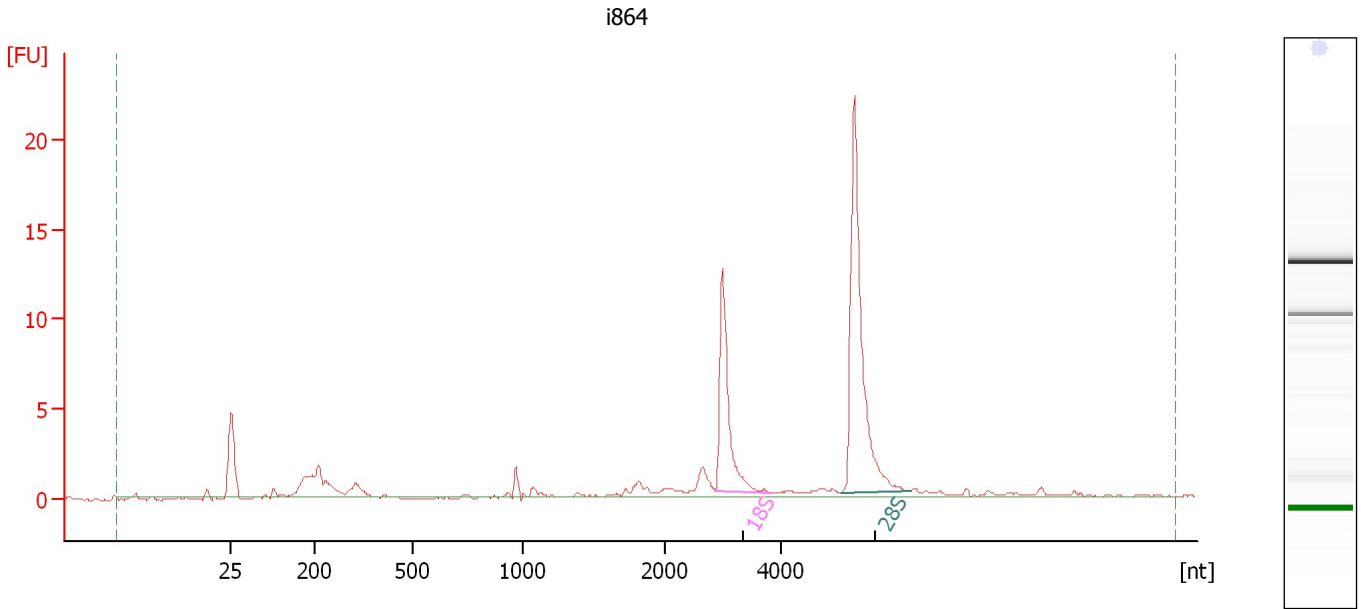
Fragment table for sample 11 : i863

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,559	1,656	0.4	7.7
28S	3,283	3,502	0.1	3.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : i864

RNA Area:	58.0	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	44 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.0	Result Flagging Label:	RIN: 9.20

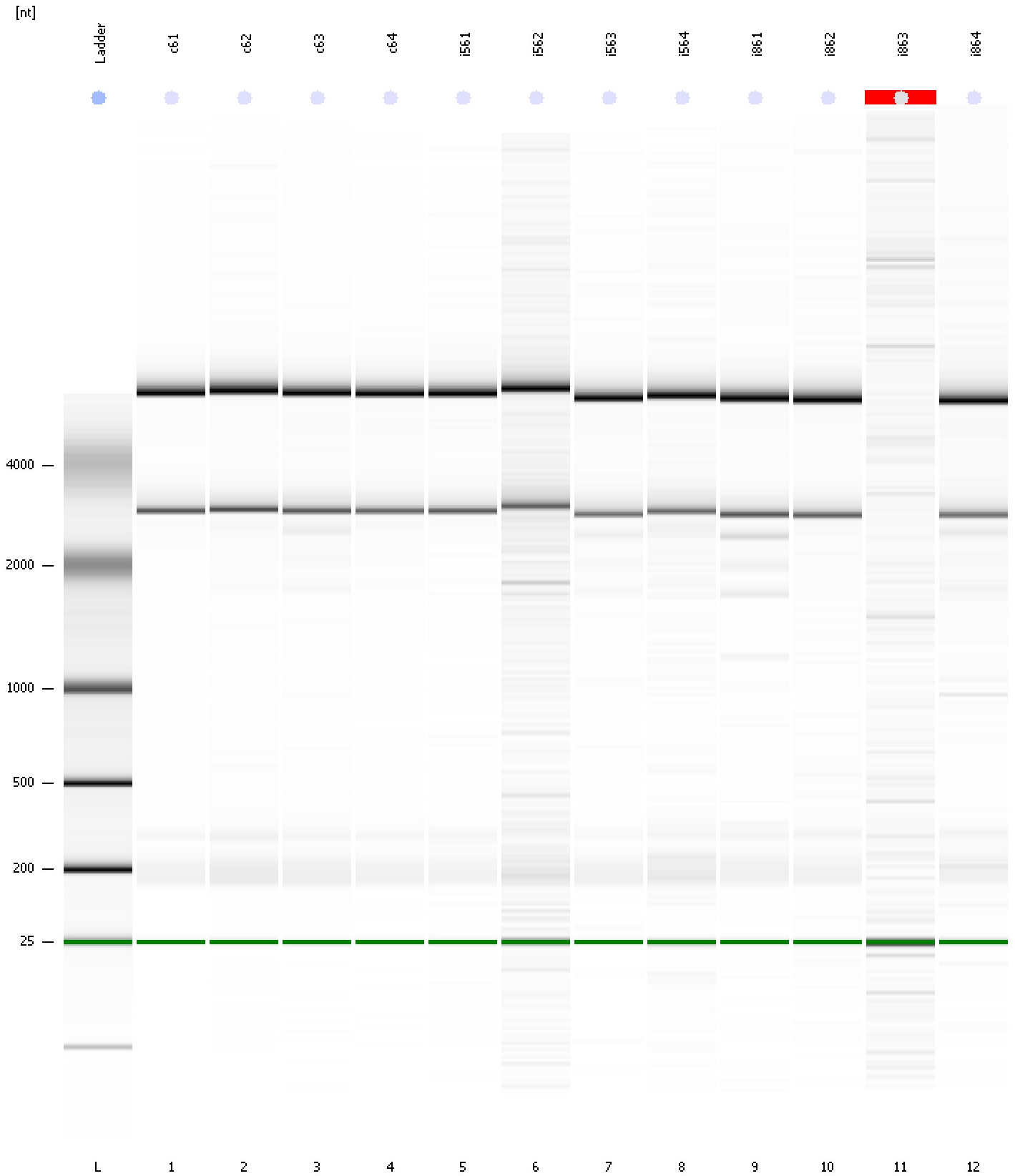
Fragment table for sample 12 : i864

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,877	3,869	11.5	19.8
28S	5,044	6,238	23.2	39.9

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Gel Image

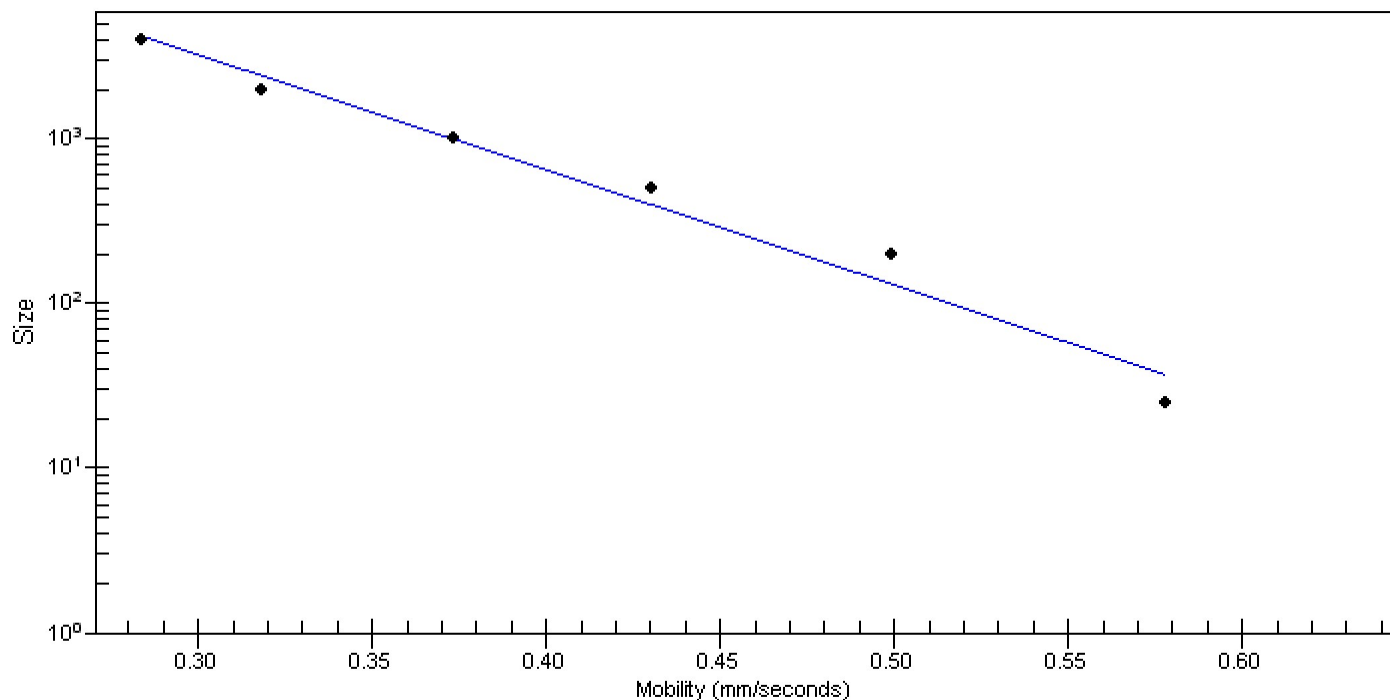


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
Modified: 4/29/2016 12:08:20 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-29\2016-04-29_001.xad

Created: 4/29/2016 10:56:07 AM
 Modified: 4/29/2016 12:08:20 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		4/29/2016 11:19:54 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\2016-04-29\2016-04-29_001.xad)		Instrument	Run		4/29/2016 10:56:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/29/2016 10:56:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/29/2016 10:56:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/29/2016 10:56:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/29/2016 10:56:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/29/2016 10:56:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/29/2016 10:56:12 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1