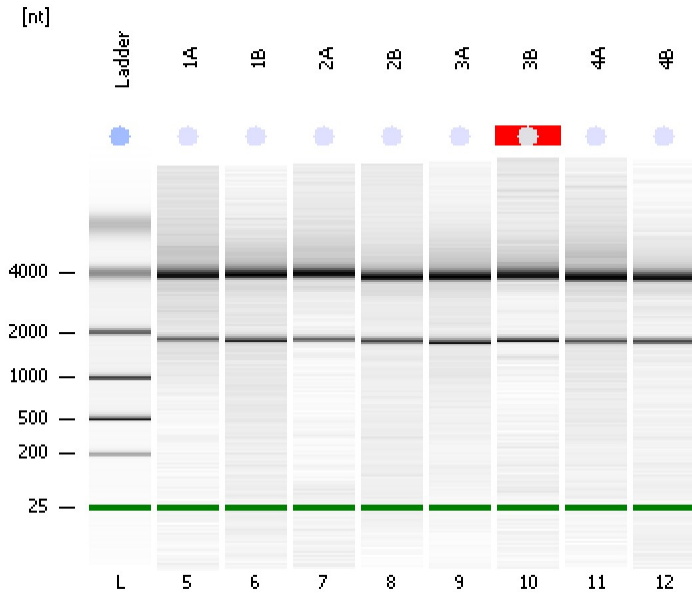


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
Modified: 6/14/2016 10:53:46 AM

Electrophoresis File Run Summary



Instrument Information:

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

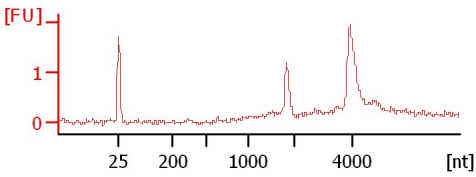
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA 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.

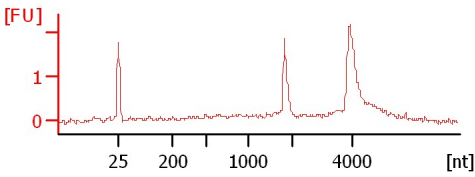
Chip Information:

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

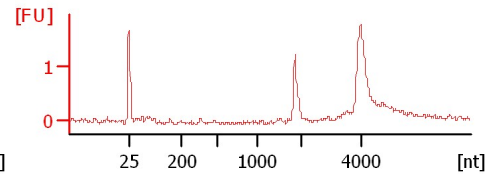
1A
RIN: 9.40



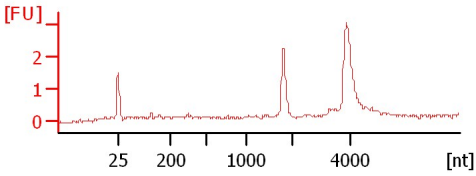
1B
RIN: 8.10



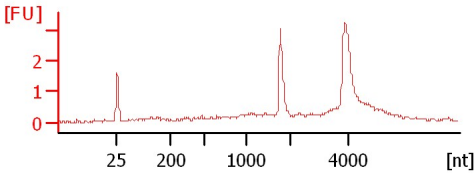
2A
RIN: 10



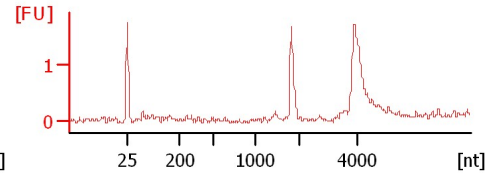
2B
RIN: 9.30



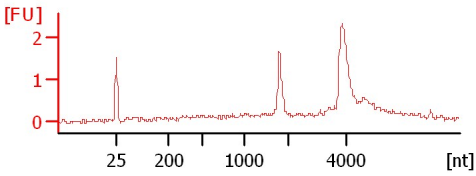
3A
RIN: 8.30



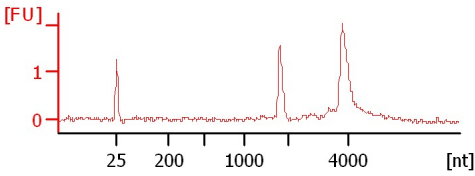
3B
RIN N/A



4A
RIN: 8.30



4B
RIN: 9.50



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
 Modified: 6/14/2016 10:53:46 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1A		✓	RIN: 9.40	
1B		✓	RIN: 8.10	
2A		✓	RIN:10	
2B		✓	RIN: 9.30	
3A		✓	RIN: 8.30	
3B		✓	RIN N/A	
4A		✓	RIN: 8.30	
4B		✓	RIN: 9.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
Modified: 6/14/2016 10:53:46 AM

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

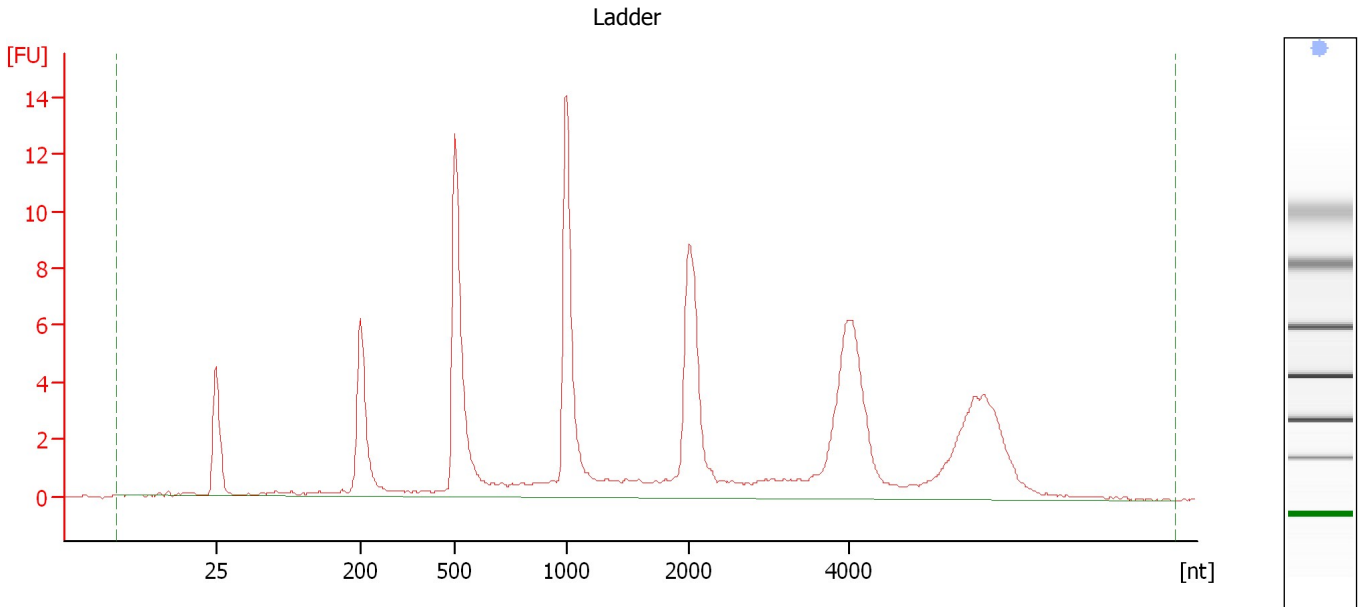
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary



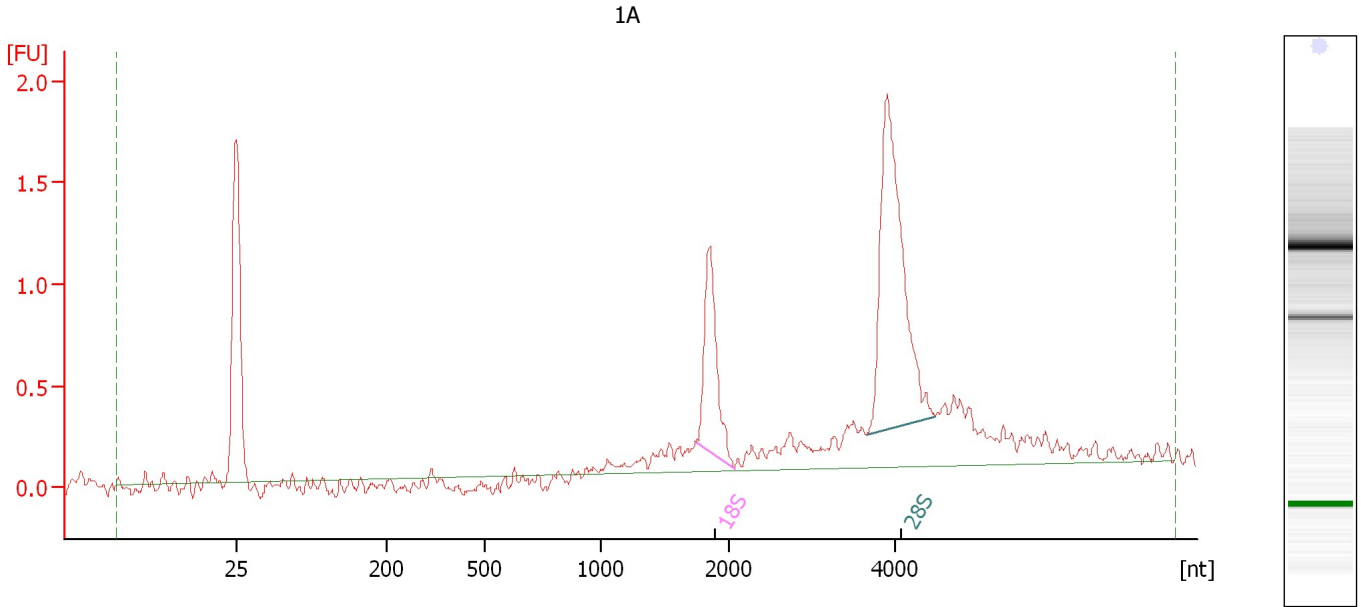
Overall Results for Ladder

RNA Area:	114.4	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
 Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 1A

RNA Area:	10.8	RNA Integrity Number (RIN):	9.4 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	14 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 9.40

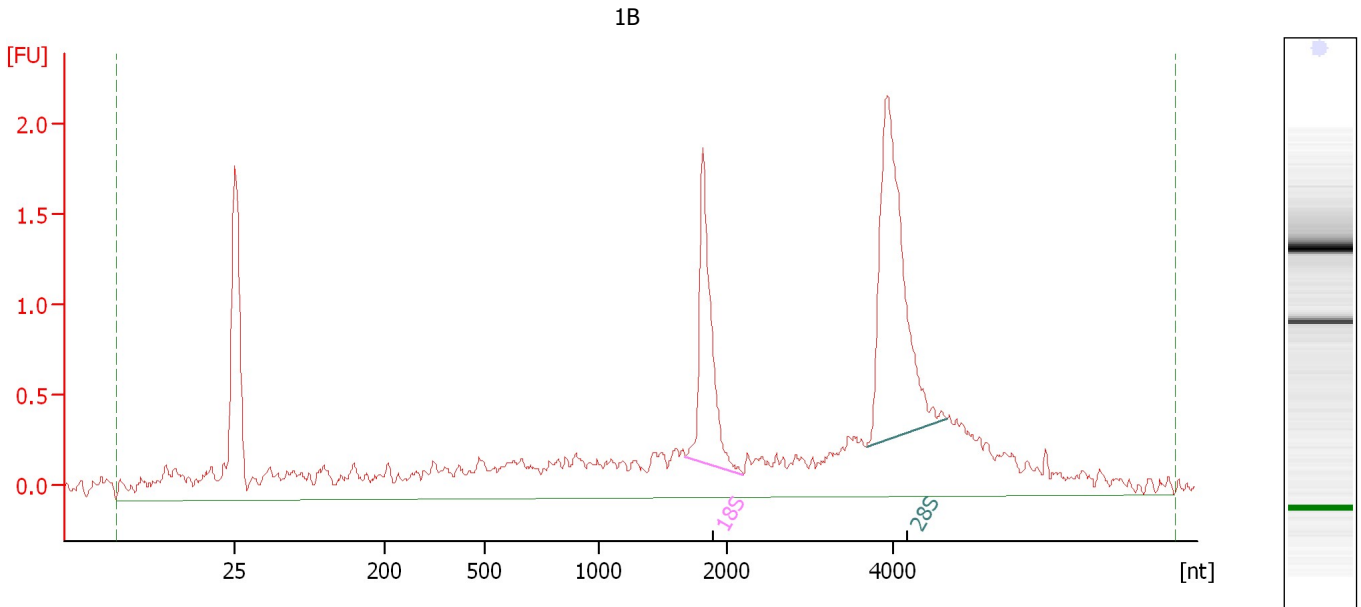
Fragment table for sample 5 : 1A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,745	2,071	1.4	12.9
28S	3,649	4,483	3.5	32.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 1B

RNA Area: 27.7 RNA Integrity Number (RIN): 8.1 (B.02.08)
RNA Concentration: 36 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 8.10

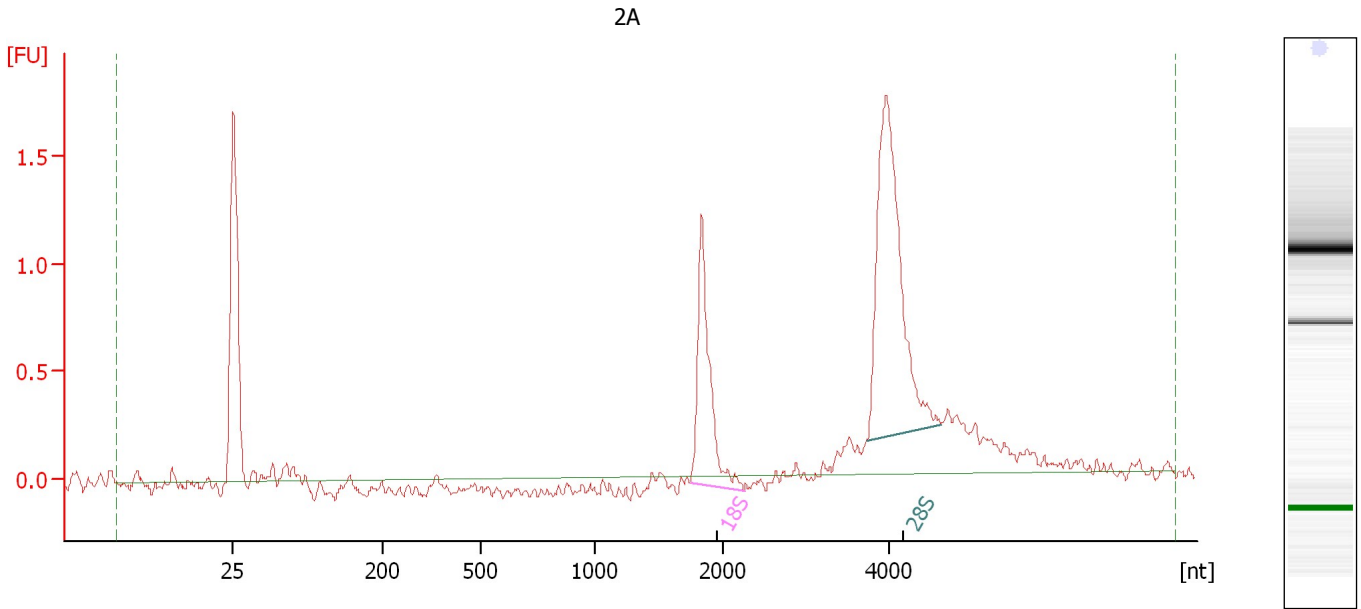
Fragment table for sample 6 : 1B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,199	2.3	8.3
28S	3,677	4,641	4.3	15.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 2A

RNA Area: 8.5 RNA Integrity Number (RIN): 10 (B.02.08)
RNA Concentration: 11 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.1 Result Flagging Label: RIN:10

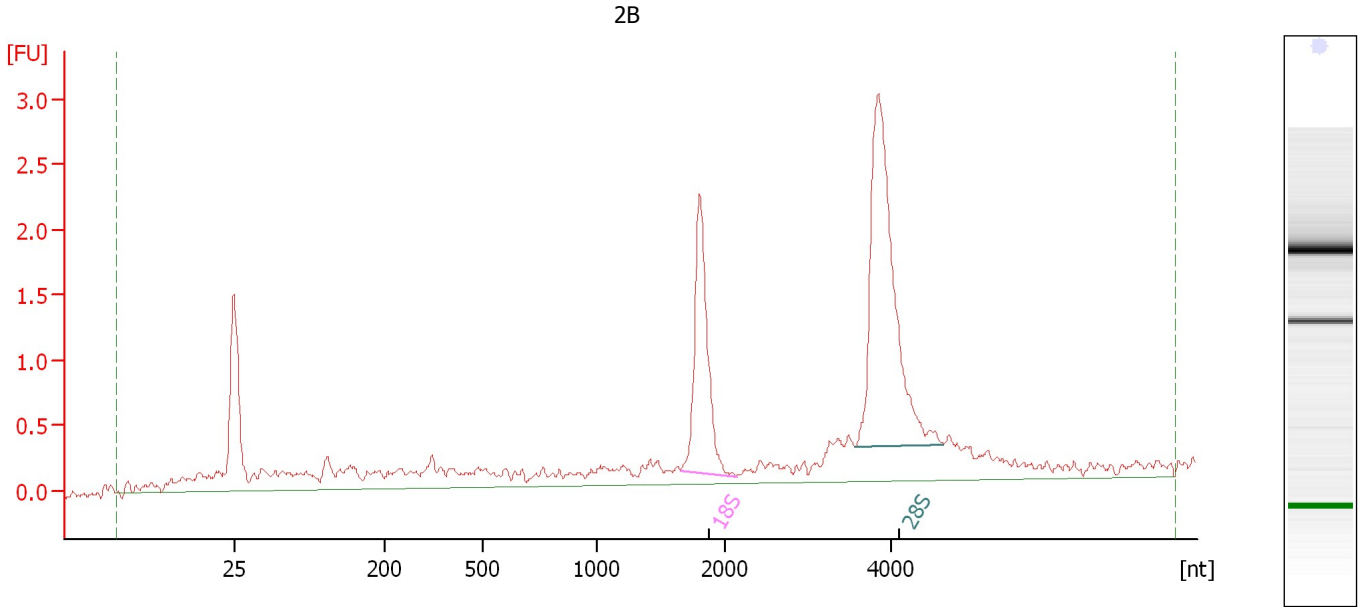
Fragment table for sample 7 : 2A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,750	2,262	1.7	19.9
28S	3,746	4,636	3.6	41.8

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
 Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 2B

RNA Area:	24.1	RNA Integrity Number (RIN):	9.3 (B.02.08)
RNA Concentration:	32 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.30

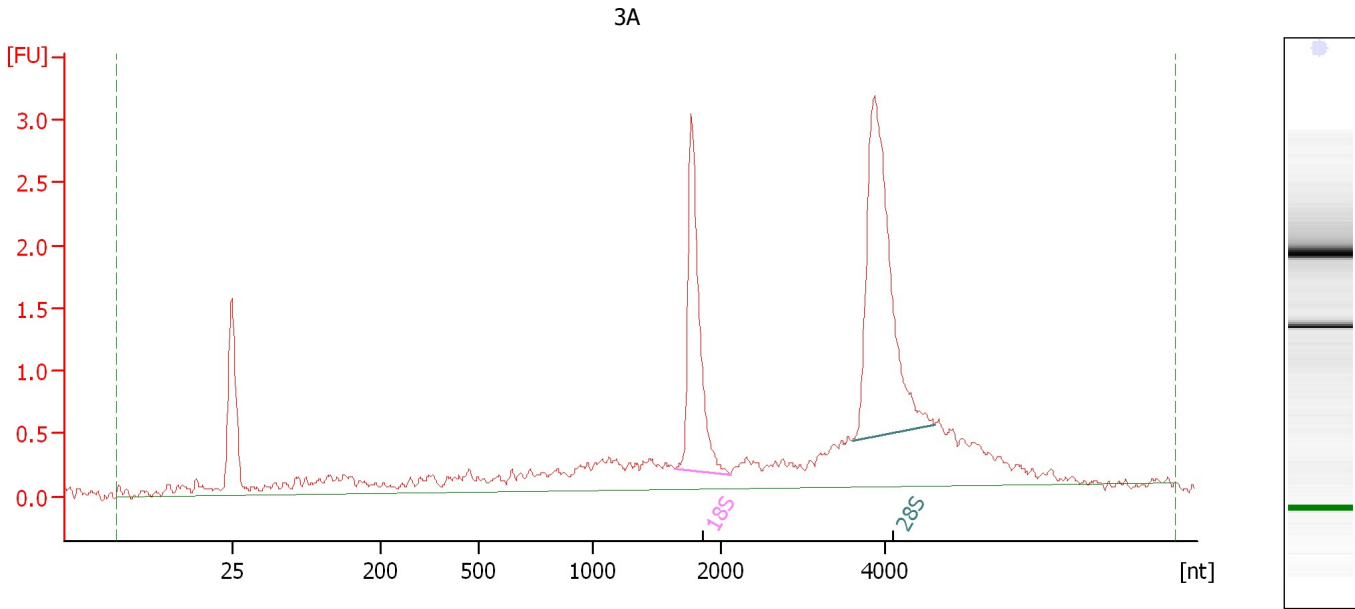
Fragment table for sample 8 : 2B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,650	2,146	3.2	13.2
28S	3,563	4,645	6.1	25.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
 Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 3A

RNA Area:	26.2	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	34 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.30

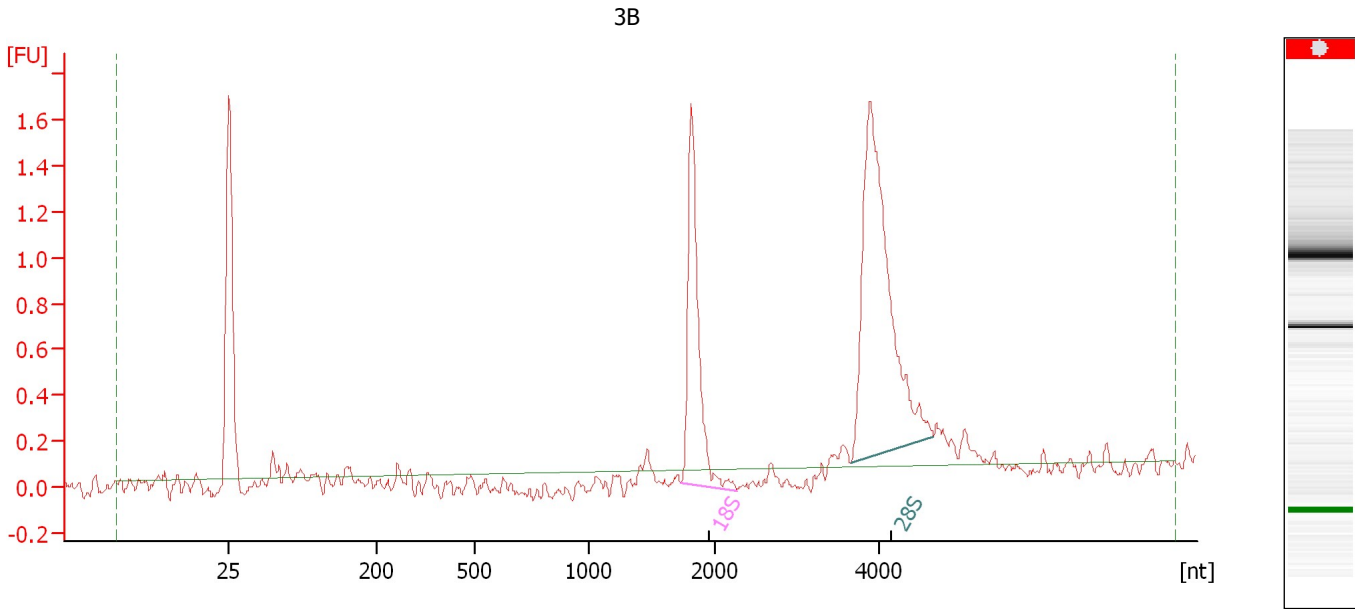
Fragment table for sample 9 : 3A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,647	2,119	3.6	13.7
28S	3,593	4,589	6.1	23.5

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
 Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 3B

RNA Area:	7.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	9 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.1	Result Flagging Label:	RIN N/A

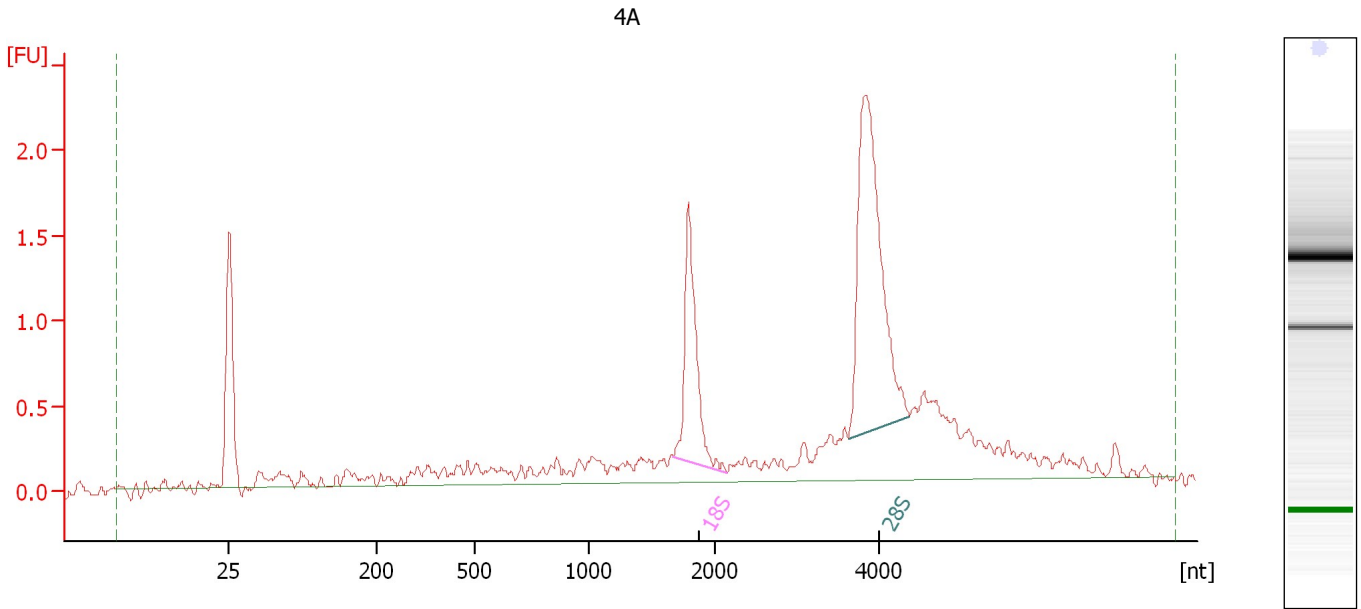
Fragment table for sample 10 : 3B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,728	2,273	1.9	26.8
28S	3,665	4,666	4.0	55.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
 Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 4A

RNA Area:	17.7	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	23 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.2	Result Flagging Label:	RIN: 8.30

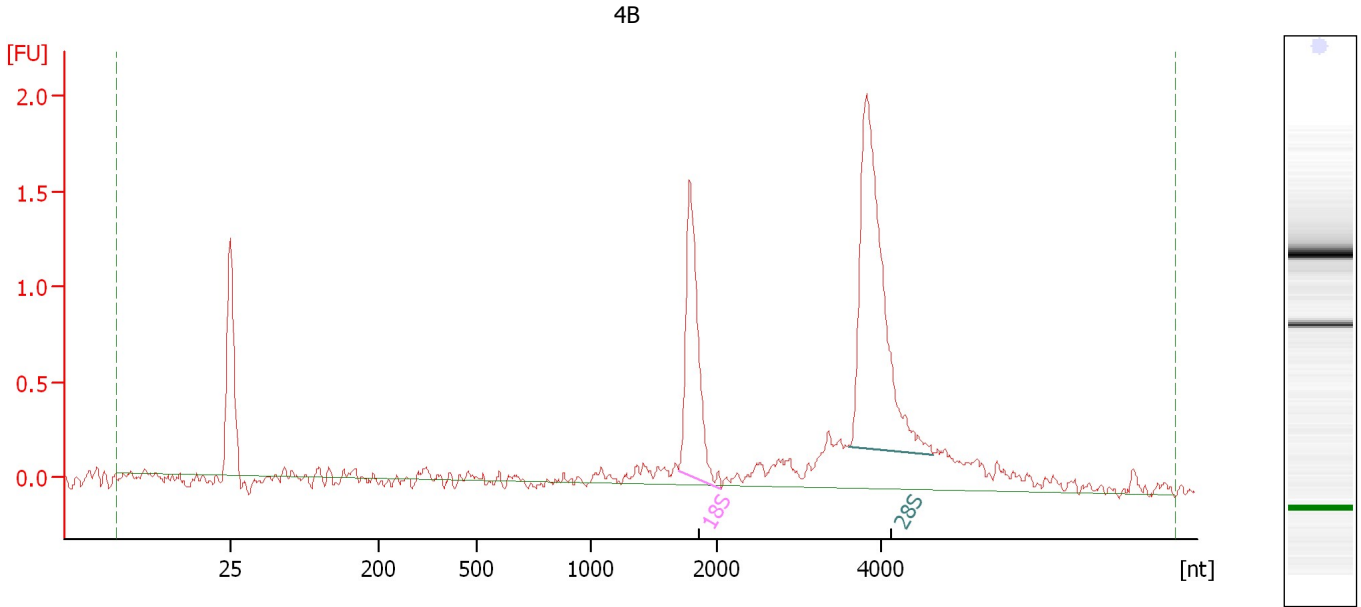
Fragment table for sample 11 : 4A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,677	2,156	2.0	11.3
28S	3,639	4,380	4.5	25.3

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
Modified: 6/14/2016 10:53:46 AM

Electropherogram Summary Continued ...



Overall Results for sample 12 : 4B

RNA Area:	11.6	RNA Integrity Number (RIN):	9.5 (B.02.08)
RNA Concentration:	15 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.9	Result Flagging Label:	RIN: 9.50

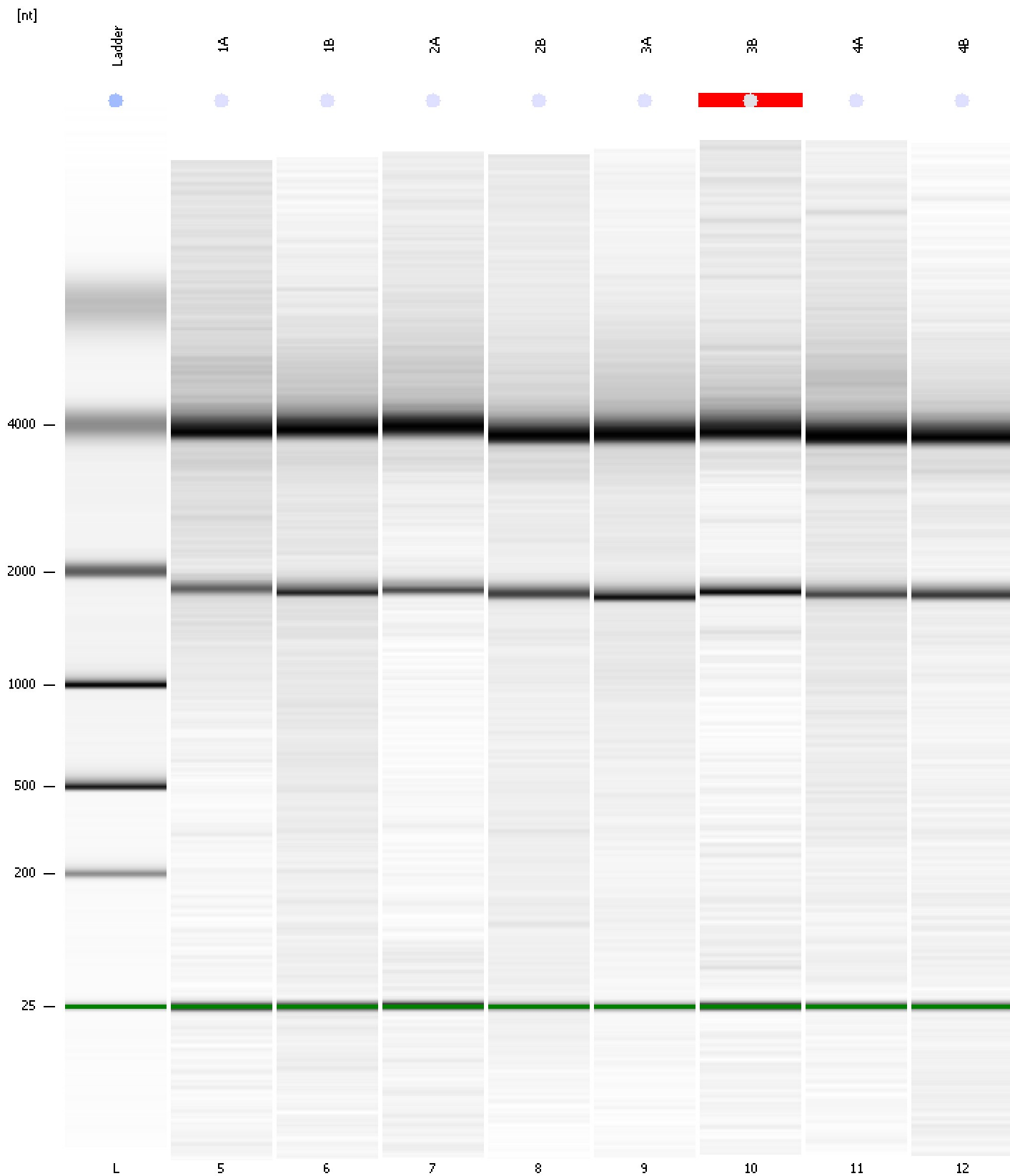
Fragment table for sample 12 : 4B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,695	2,065	2.2	18.5
28S	3,623	4,623	4.1	35.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
Modified: 6/14/2016 10:53:46 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...00 expert\data\2016-06-14\2016-06-14_001_TotalRNAQC_1-8.xad

Created: 6/14/2016 10:25:23 AM
 Modified: 6/14/2016 10:53:46 AM

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		6/14/2016 10:49:12 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\2016-06-14\2016-06-14_001.xad)		Instrument	Run		6/14/2016 10:25:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/14/2016 10:25:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/14/2016 10:25:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/14/2016 10:25:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/14/2016 10:25:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/14/2016 10:25:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/14/2016 10:25:28 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1