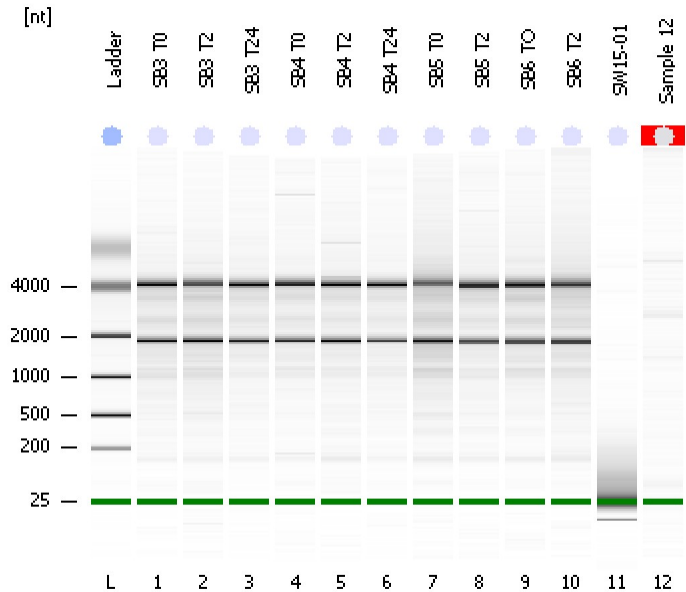


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electrophoresis File Run Summary



Instrument Information:

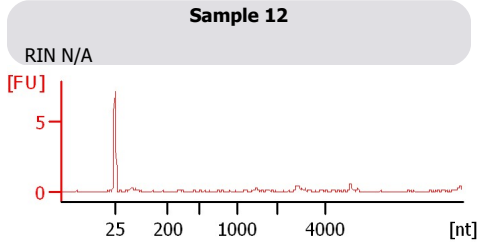
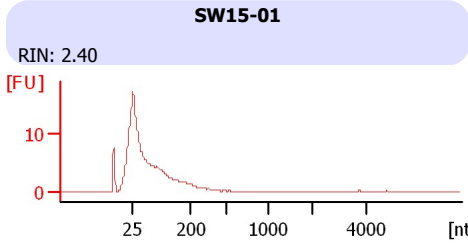
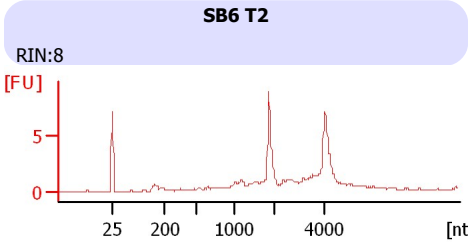
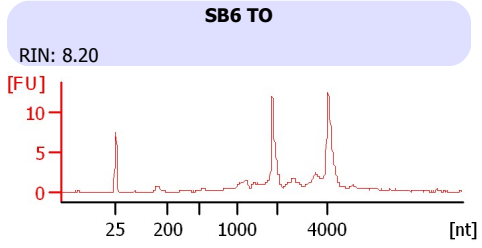
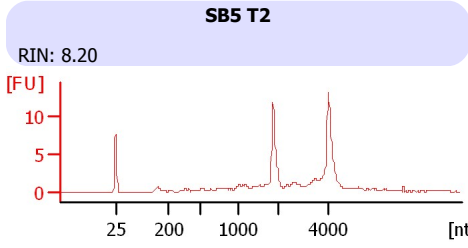
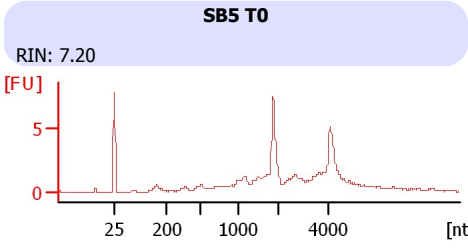
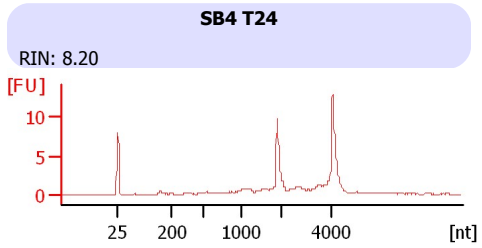
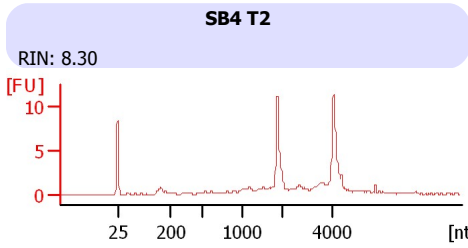
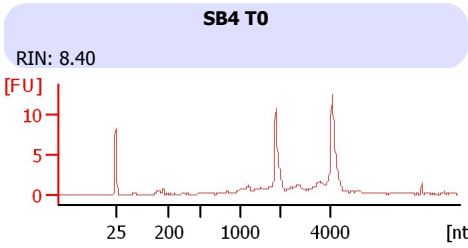
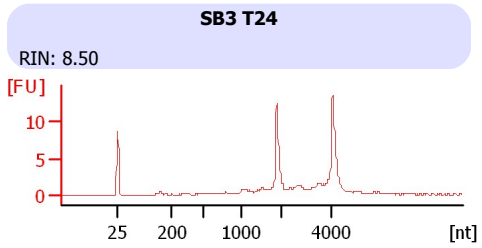
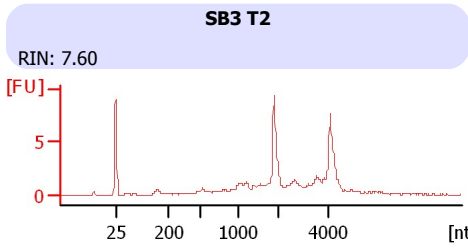
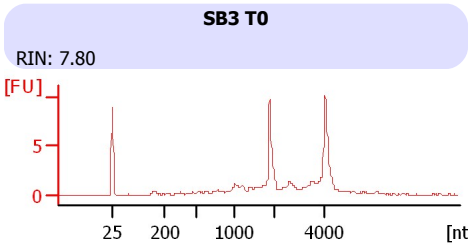
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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)
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Chip Information:

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



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
 Modified: 2/13/2015 11:58:15 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
SB3 T0		✓	RIN: 7.80	
SB3 T2		✓	RIN: 7.60	
SB3 T24		✓	RIN: 8.50	
SB4 T0		✓	RIN: 8.40	
SB4 T2		✓	RIN: 8.30	
SB4 T24		✓	RIN: 8.20	
SB5 T0		✓	RIN: 7.20	
SB5 T2		✓	RIN: 8.20	
SB6 T0		✓	RIN: 8.20	
SB6 T2		✓	RIN:8	
SW15-01		✓	RIN: 2.40	
Sample 12		✓	RIN N/A	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 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

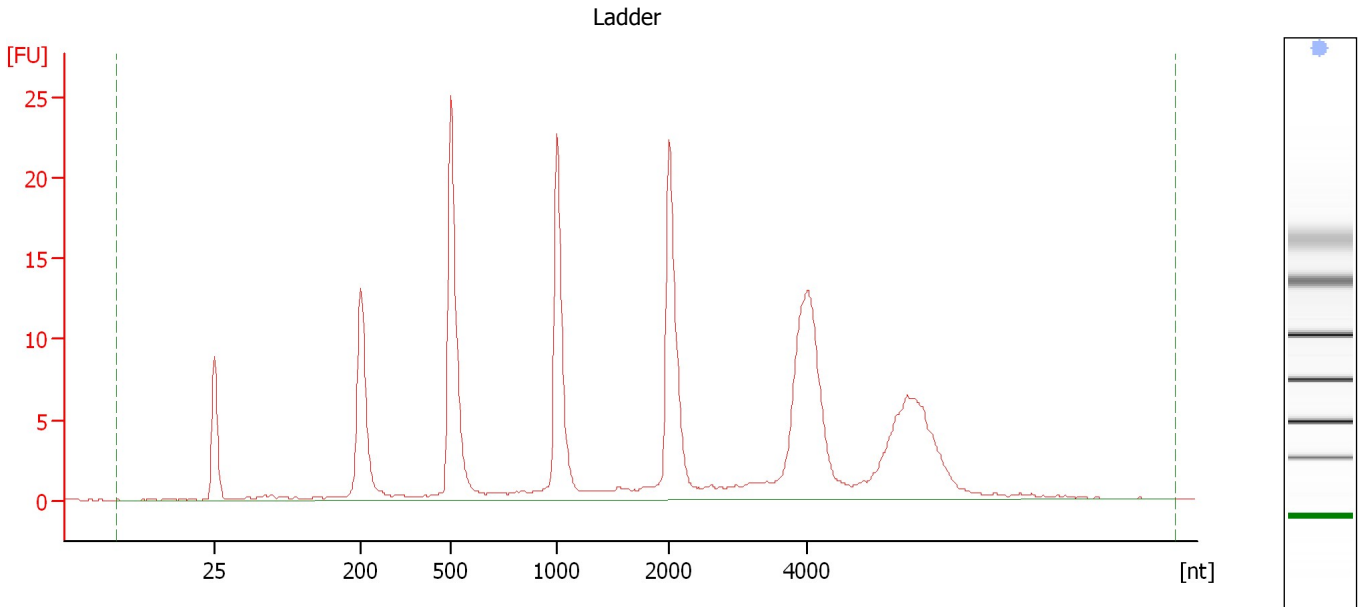
Ladder

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

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary



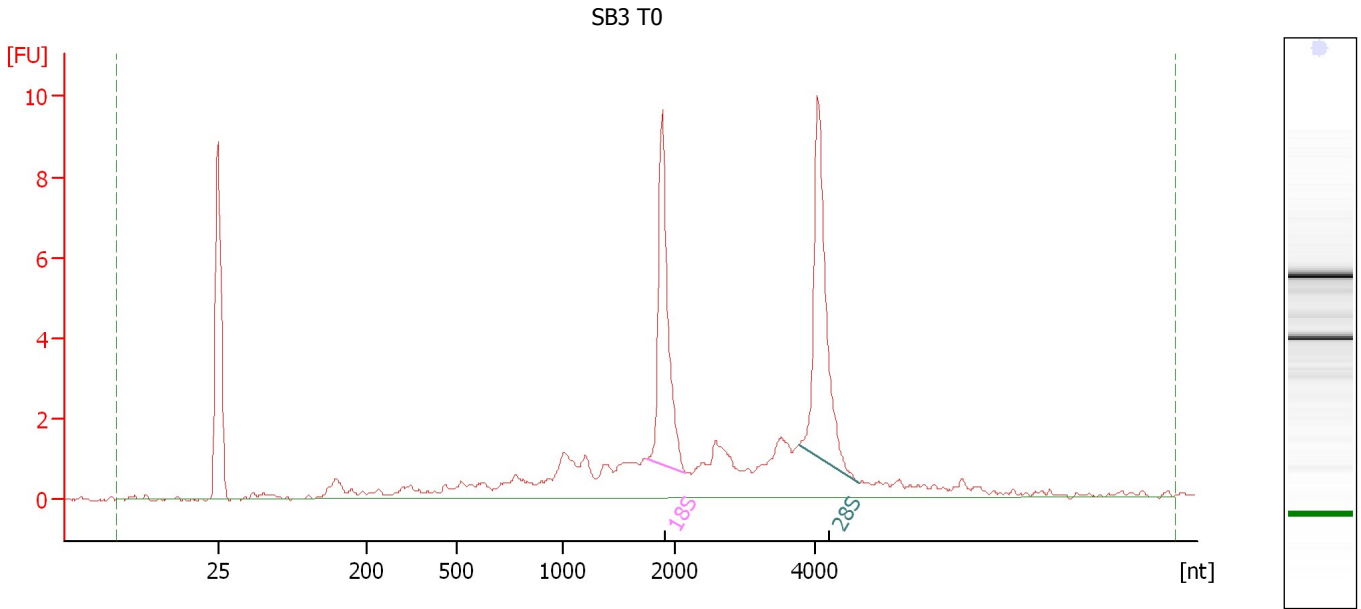
Overall Results for Ladder

RNA Area:	195.8	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\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : SB3 T0

RNA Area:	62.2	RNA Integrity Number (RIN):	7.8 (B.02.08)
RNA Concentration:	48 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.80

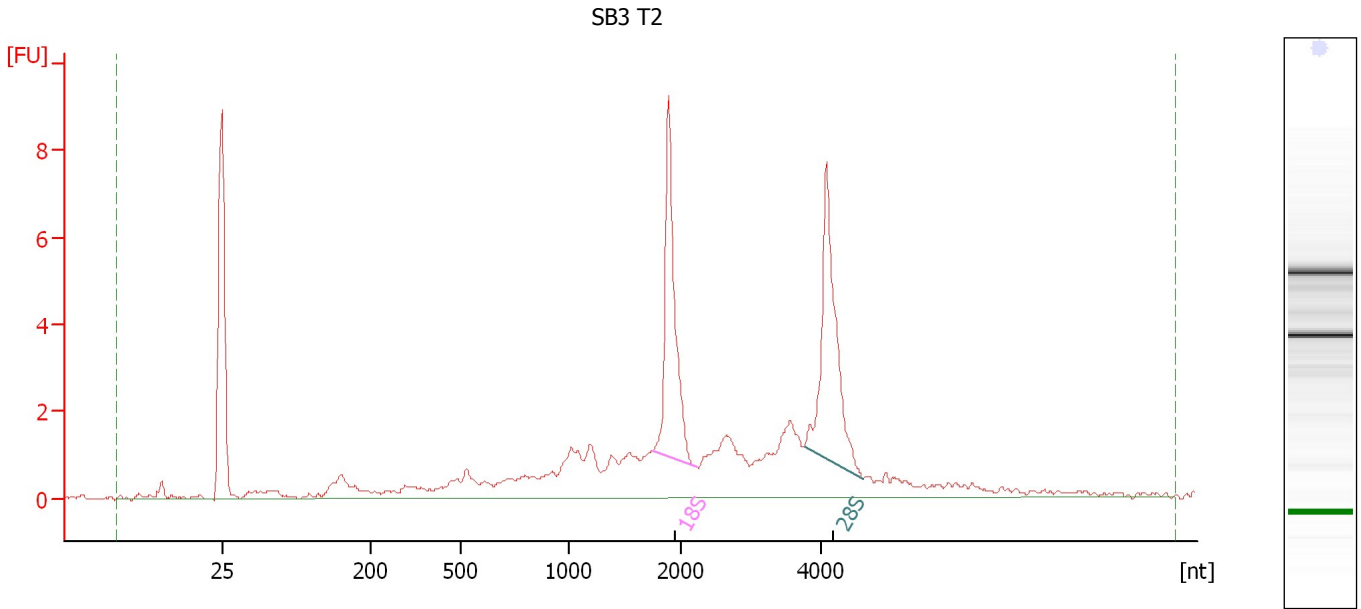
Fragment table for sample 1 : SB3 T0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,747	2,144	9.5	15.2
28S	3,792	4,640	10.9	17.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : SB3 T2

RNA Area:	66.4	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	51 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.0	Result Flagging Label:	RIN: 7.60

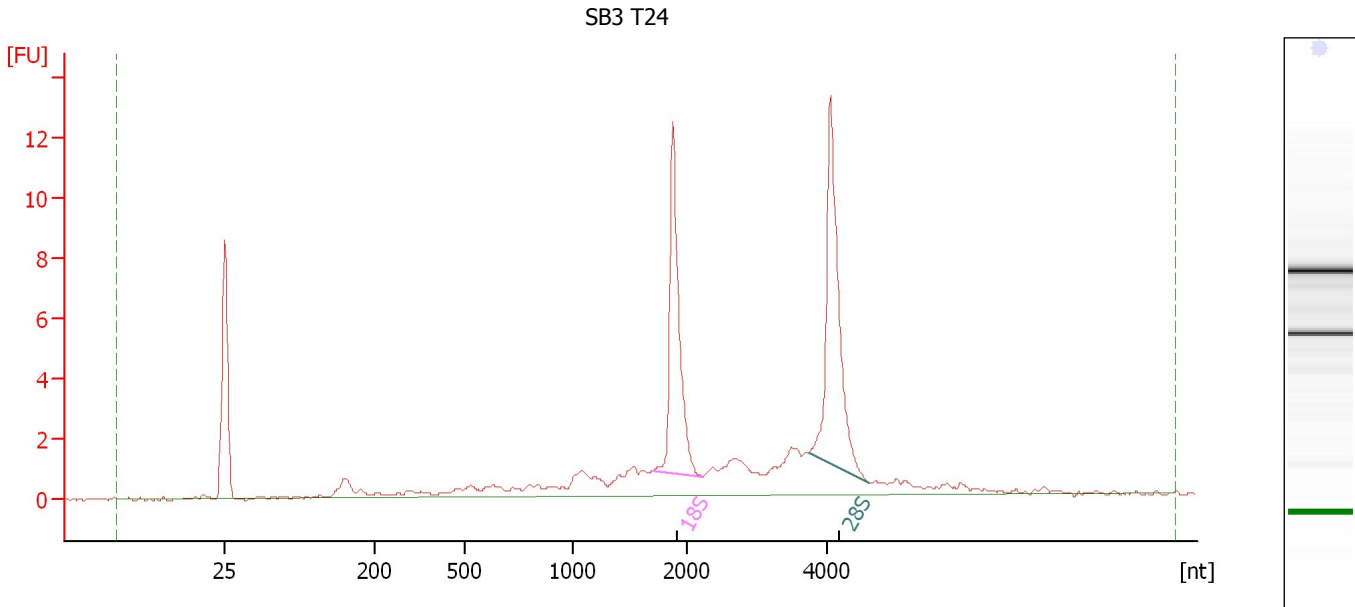
Fragment table for sample 2 : SB3 T2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,752	2,209	9.5	14.2
28S	3,756	4,598	9.7	14.6

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
 Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : SB3 T24

RNA Area:	61.1	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	47 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.50

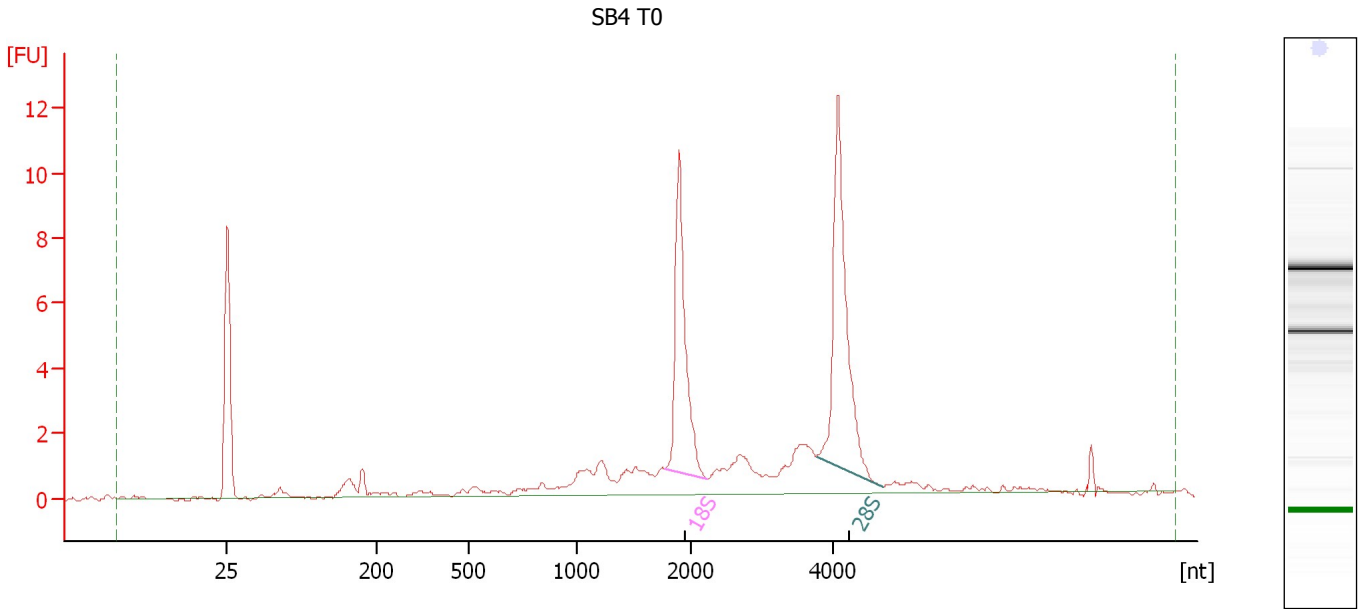
Fragment table for sample 3 : SB3 T24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,701	2,214	12.4	20.3
28S	3,720	4,573	15.0	24.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : SB4 T0

RNA Area:	57.6	RNA Integrity Number (RIN):	8.4 (B.02.08)
RNA Concentration:	44 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.40

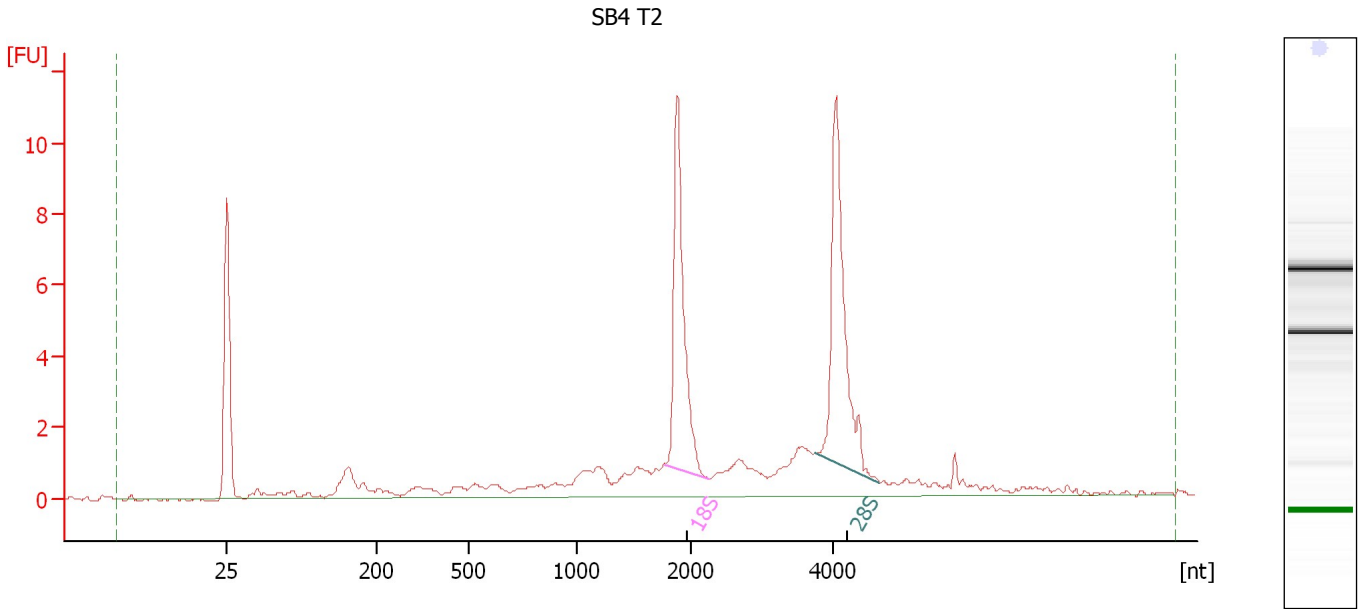
Fragment table for sample 4 : SB4 T0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,770	2,231	11.1	19.2
28S	3,778	4,717	14.4	25.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : SB4 T2

RNA Area:	64.3	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	49 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 8.30

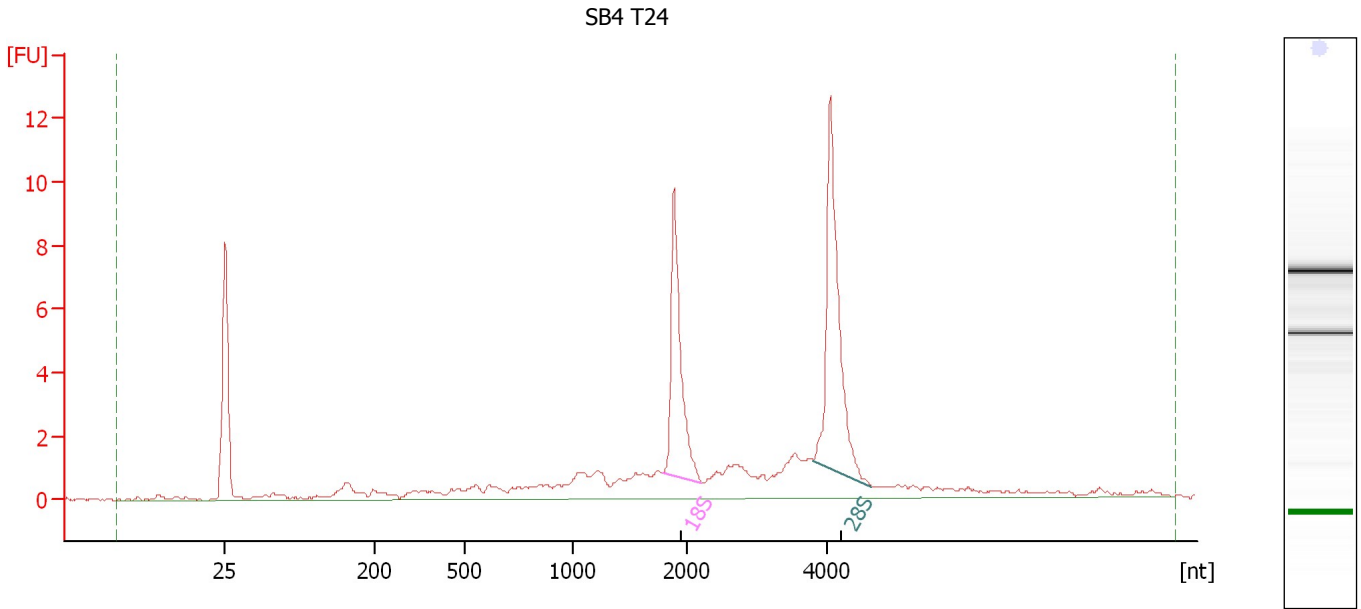
Fragment table for sample 5 : SB4 T2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,770	2,247	11.5	18.0
28S	3,762	4,672	12.9	20.0

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : SB4 T24

RNA Area:	64.5	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	49 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.20

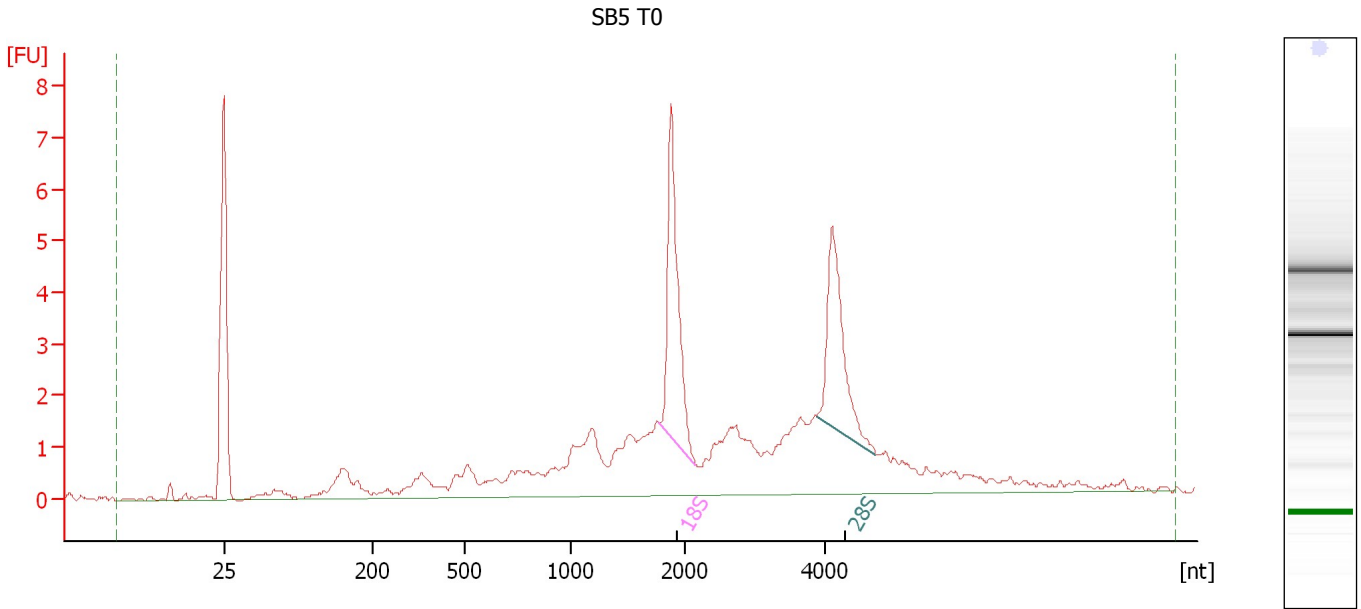
Fragment table for sample 6 : SB4 T24

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,776	2,198	9.8	15.2
28S	3,796	4,618	14.0	21.6

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : SB5 T0

RNA Area:	65.8	RNA Integrity Number (RIN):	7.2 (B.02.08)
RNA Concentration:	50 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 7.20

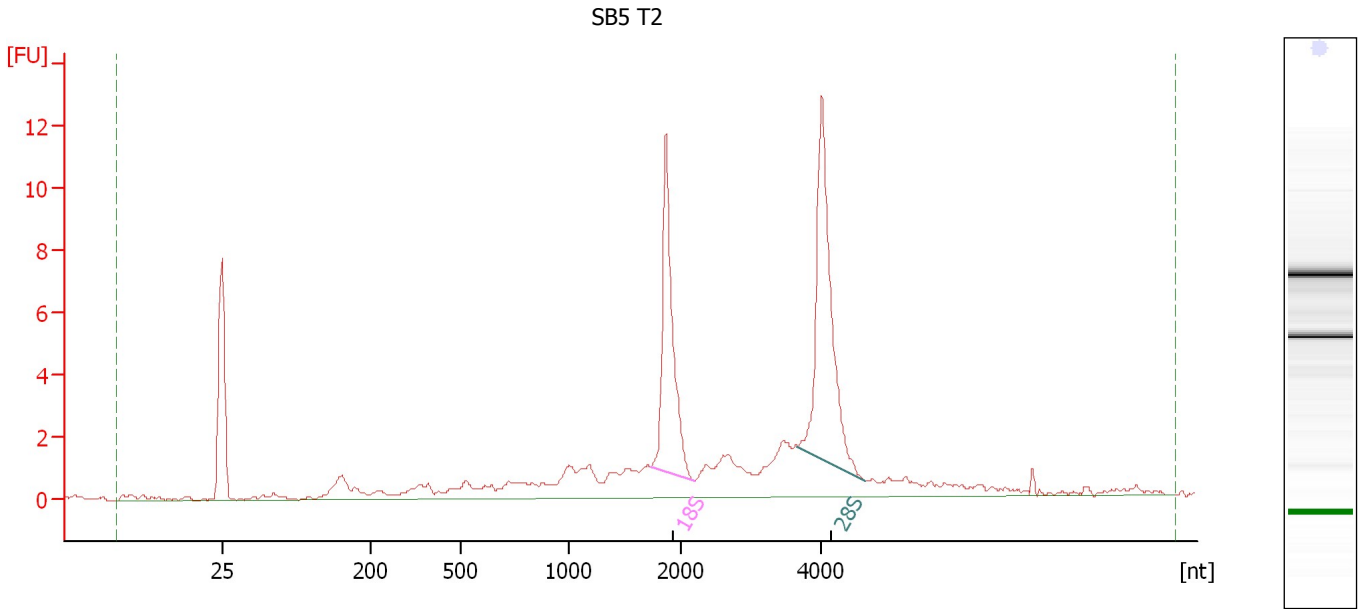
Fragment table for sample 7 : SB5 T0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,774	2,136	7.7	11.8
28S	3,875	4,713	6.2	9.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : SB5 T2

RNA Area:	77.6	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	59 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.20

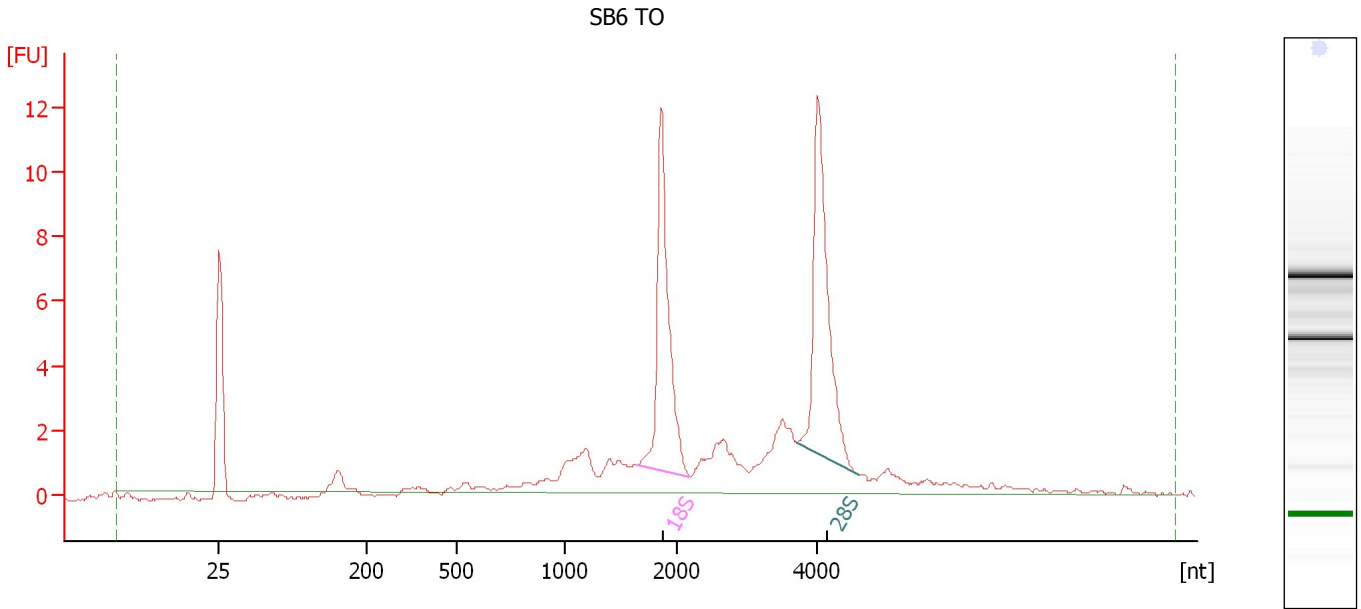
Fragment table for sample 8 : SB5 T2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,724	2,179	13.1	16.8
28S	3,664	4,629	16.9	21.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : SB6 TO

RNA Area: 70.5 RNA Integrity Number (RIN): 8.2 (B.02.08)
RNA Concentration: 54 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.1 Result Flagging Label: RIN: 8.20

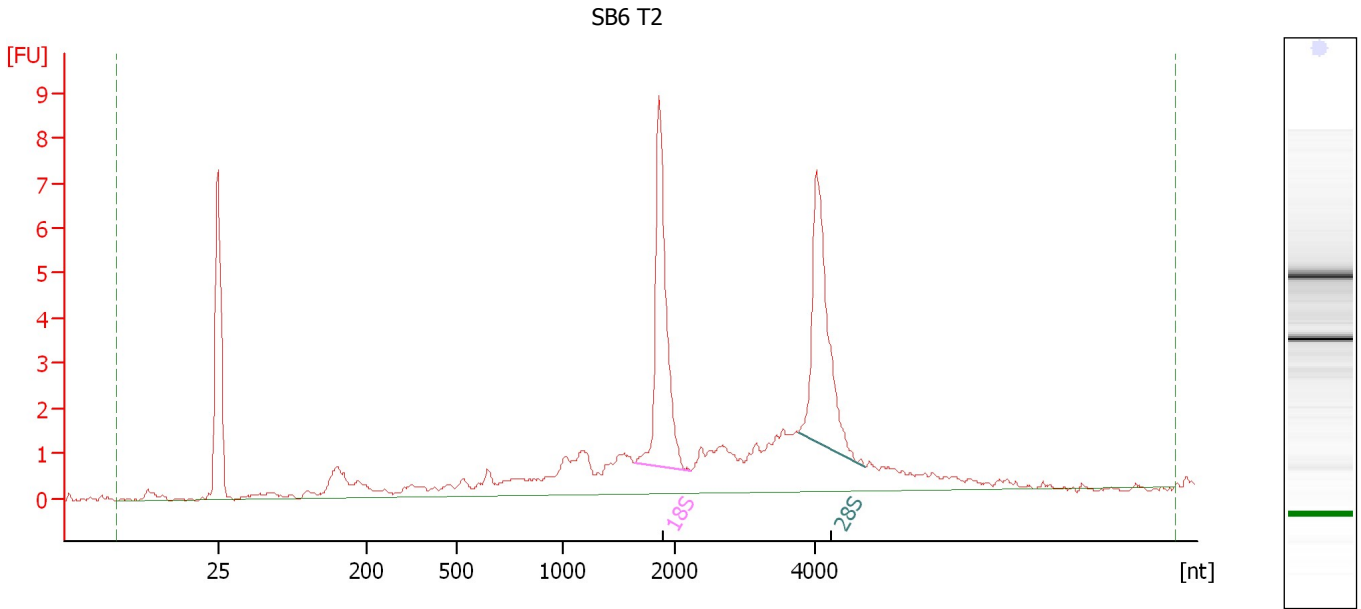
Fragment table for sample 9 : SB6 TO

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,636	2,176	14.6	20.7
28S	3,729	4,605	15.9	22.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : SB6 T2

RNA Area: 60.6 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 46 ng/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN:8

Fragment table for sample 10 : SB6 T2

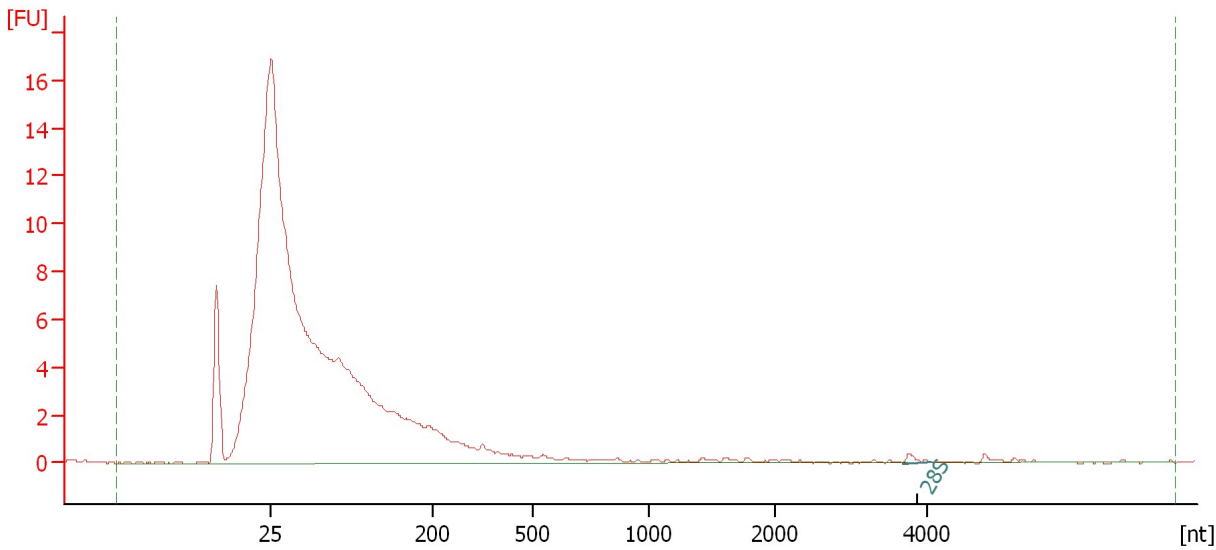
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,634	2,236	10.0	16.6
28S	3,777	4,732	9.5	15.8

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...

SW15-01



Overall Results for sample 11 : SW15-01

RNA Area:	65.5	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	50 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Fragment table for sample 11 : SW15-01

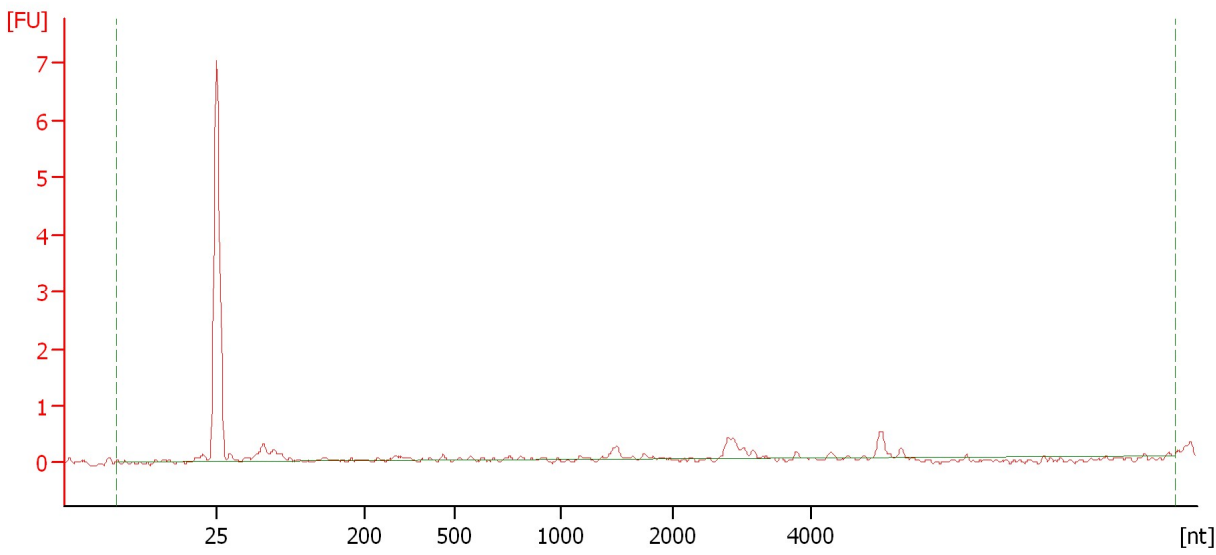
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	3,681	4,059	0.3	0.5

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Electropherogram Summary Continued ...

Sample 12



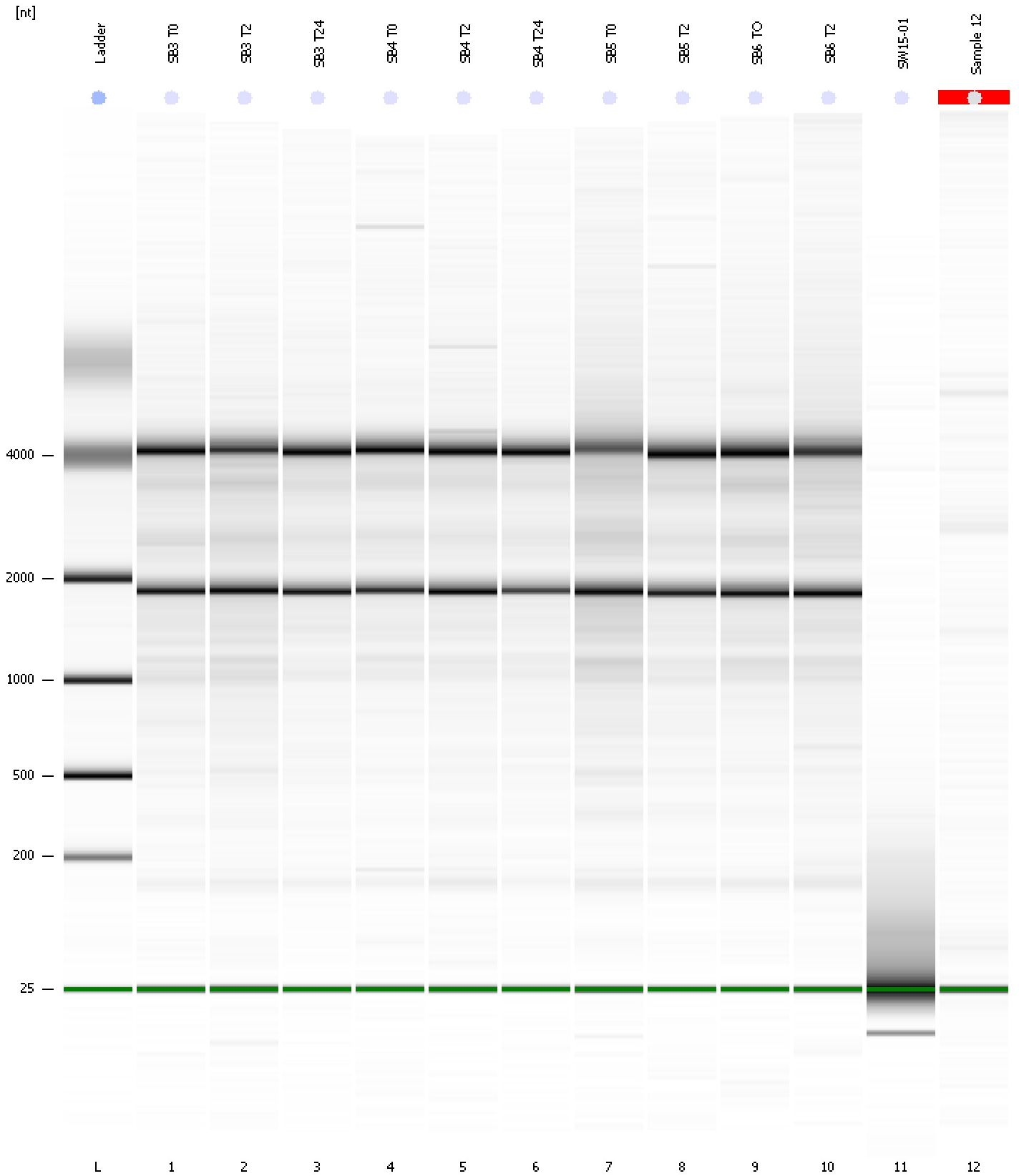
Overall Results for sample 12 : Sample 12

RNA Area:	4.5	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
Modified: 2/13/2015 11:58:15 AM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad

Created: 2/13/2015 11:34:23 AM
 Modified: 2/13/2015 11:58:15 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		2/13/2015 11:58:12 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-13\2015-02-13_001.xad)		Instrument	Run		2/13/2015 11:34:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		2/13/2015 11:34:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		2/13/2015 11:34:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		2/13/2015 11:34:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		2/13/2015 11:34:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		2/13/2015 11:34:29 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		2/13/2015 11:34:28 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1