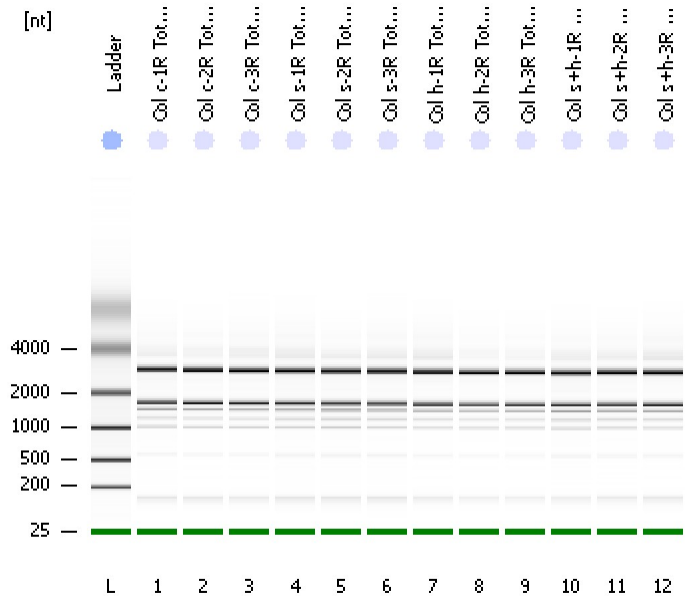


Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
Modified: 5/14/2013 5:36:51 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

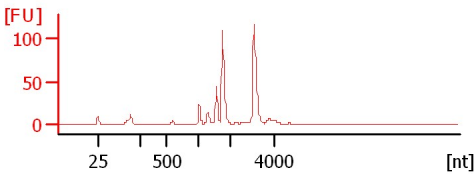
Assay Class: Eukaryote Total RNA Nano
Version: 2.6
Assay Comments: Total RNA Analysis ng sensitivity (Eukaryote)

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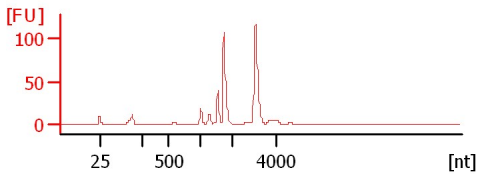
Chip Information:

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

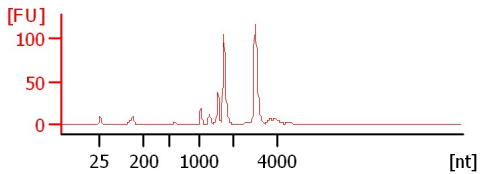
Col c-1R Total RNA 1:4
RIN: 5.90



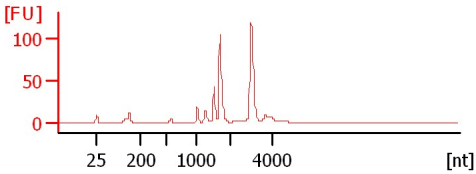
Col c-2R Total RNA 1:4
RIN: 6.10



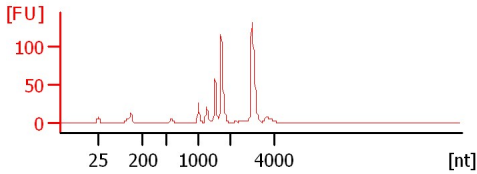
Col c-3R Total RNA 1:5
RIN: 6.10



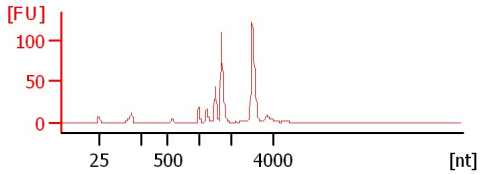
Col s-1R Total RNA 1:4
RIN: 6.10



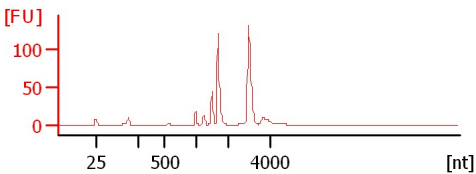
Col s-2R Total RNA 1:5
RIN: 5.90



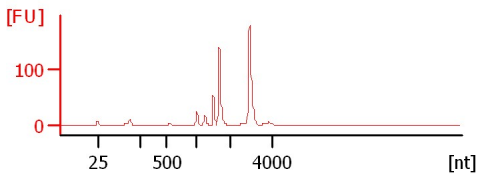
Col s-3R Total RNA 1:4
RIN: 6



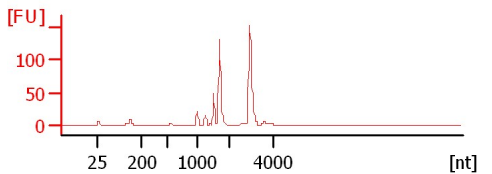
Col h-1R Total RNA 1:4
RIN: 6.10



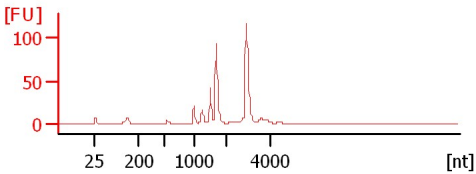
Col h-2R Total RNA 1:3
RIN: 6.10



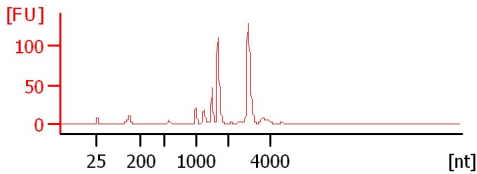
Col h-3R Total RNA 1:3
RIN: 6



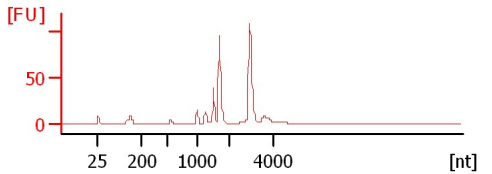
Col s+h-1R Total RNA 1:4
RIN: 6



Col s+h-2R Total RNA 1:4
RIN: 6.10



Col s+h-3R Total RNA 1:4
RIN: 6.10



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Col c-1R Total RNA 1:4		✓	RIN: 5.90	
Col c-2R Total RNA 1:4		✓	RIN: 6.10	
Col c-3R Total RNA 1:5		✓	RIN: 6.10	
Col s-1R Total RNA 1:4		✓	RIN: 6.10	
Col s-2R Total RNA 1:5		✓	RIN: 5.90	
Col s-3R Total RNA 1:4		✓	RIN:6	
Col h-1R Total RNA 1:4		✓	RIN: 6.10	
Col h-2R Total RNA 1:3		✓	RIN: 6.10	
Col h-3R Total RNA 1:3		✓	RIN:6	
Col s+h-1R Total RNA 1:4		✓	RIN:6	
Col s+h-2R Total RNA 1:4		✓	RIN: 6.10	
Col s+h-3R Total RNA 1:4		✓	RIN: 6.10	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
Modified: 5/14/2013 5:36:51 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/ μ l] : 150
Lower Marker Concentration [ng/ μ l] : 0
Upper Marker Concentration [ng/ 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] : 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

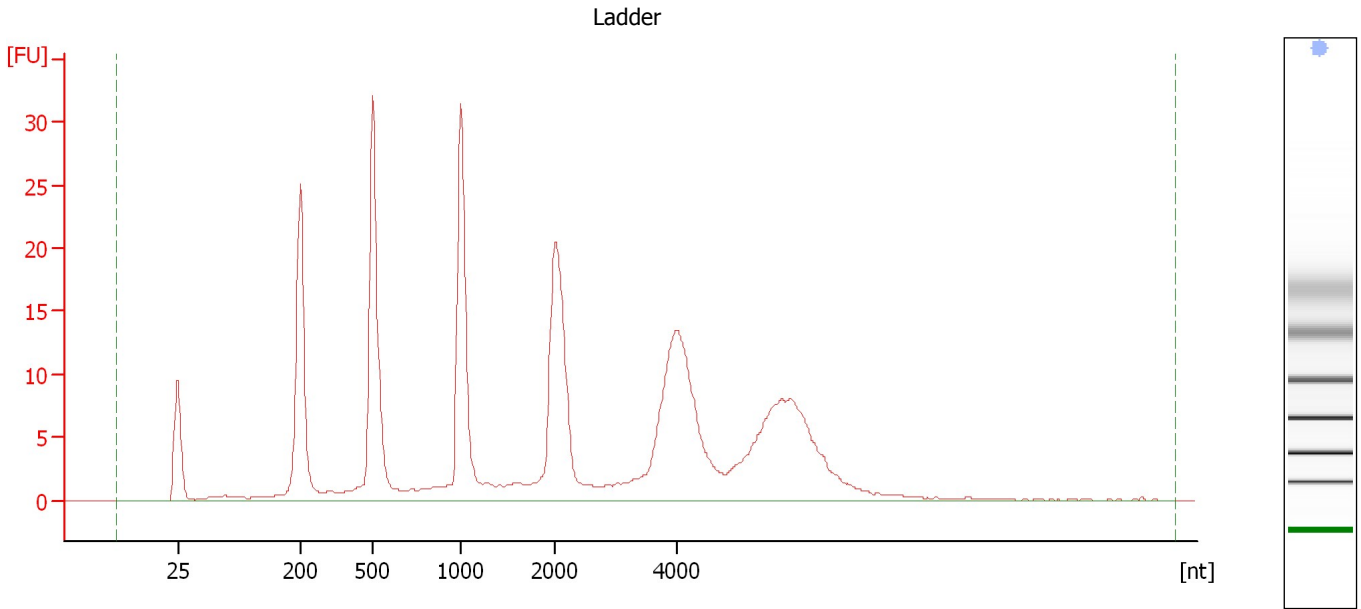
Ladder

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\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary



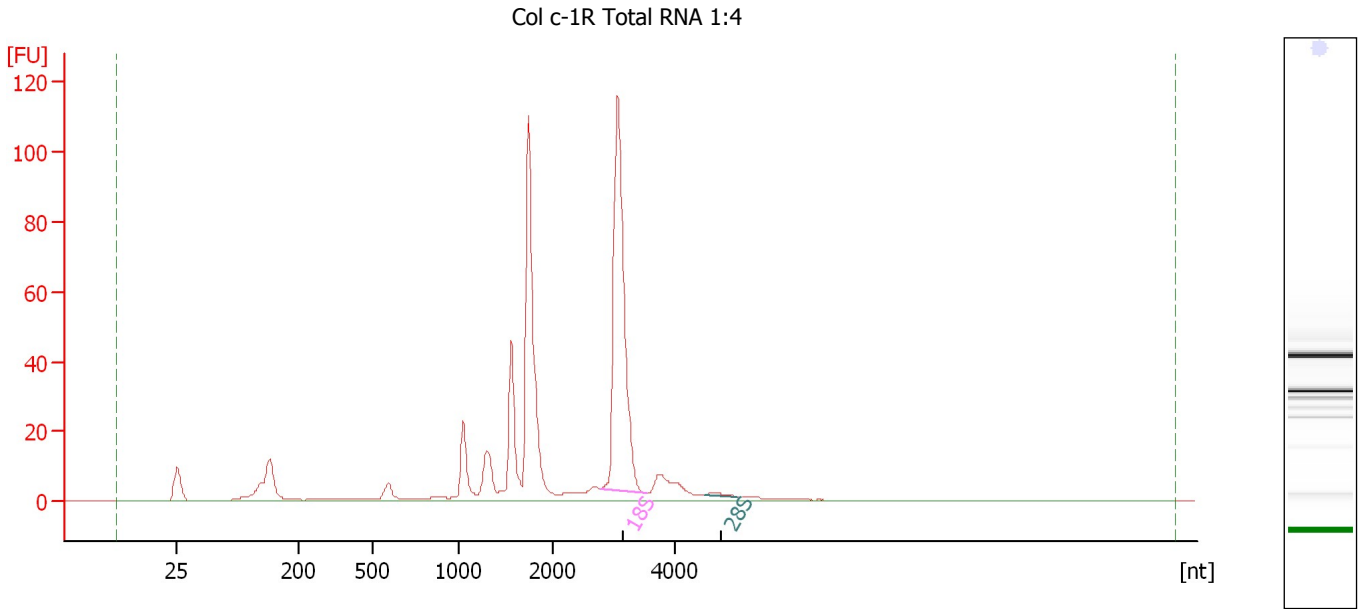
Overall Results for Ladder

RNA Area:	320.8	Result Flagging Color:	
RNA Concentration:	150 ng/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Col c-1R Total RNA 1:4

RNA Area:	469.5	RNA Integrity Number (RIN):	5.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	220 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

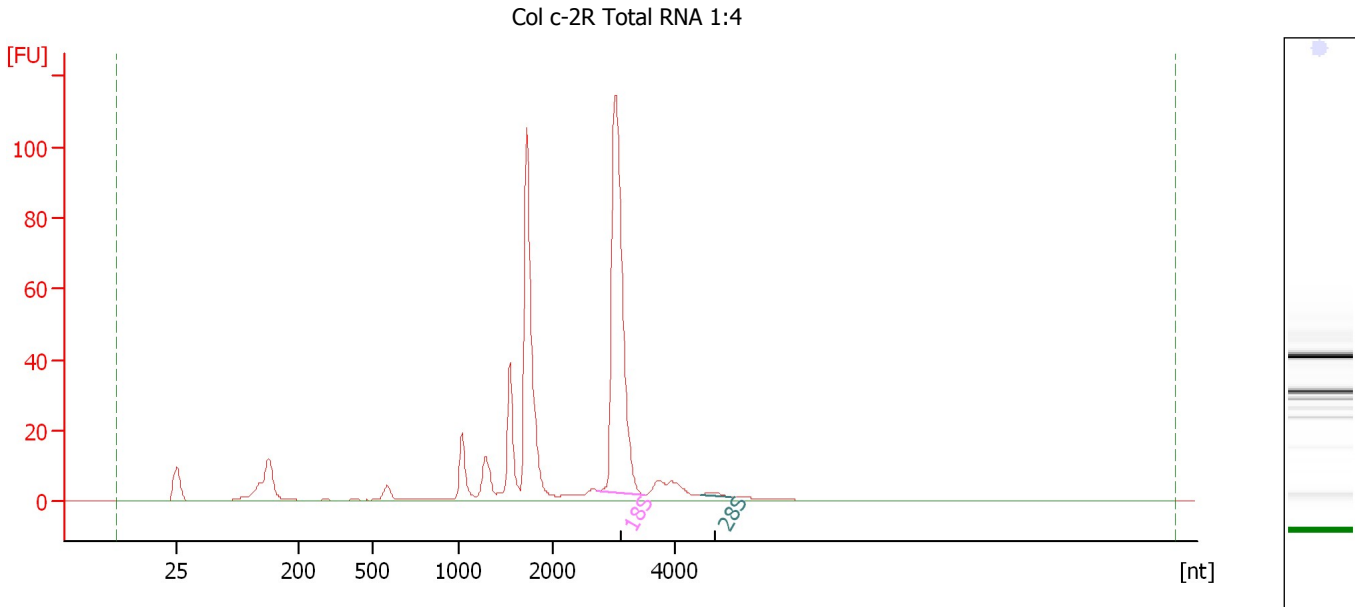
Fragment table for sample 1 : Col c-1R Total RNA 1:4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,769	3,526	145.3	30.9
28S	4,493	5,038	0.8	0.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Col c-2R Total RNA 1:4

RNA Area:	437.3	RNA Integrity Number (RIN):	6.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	204 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 6.10

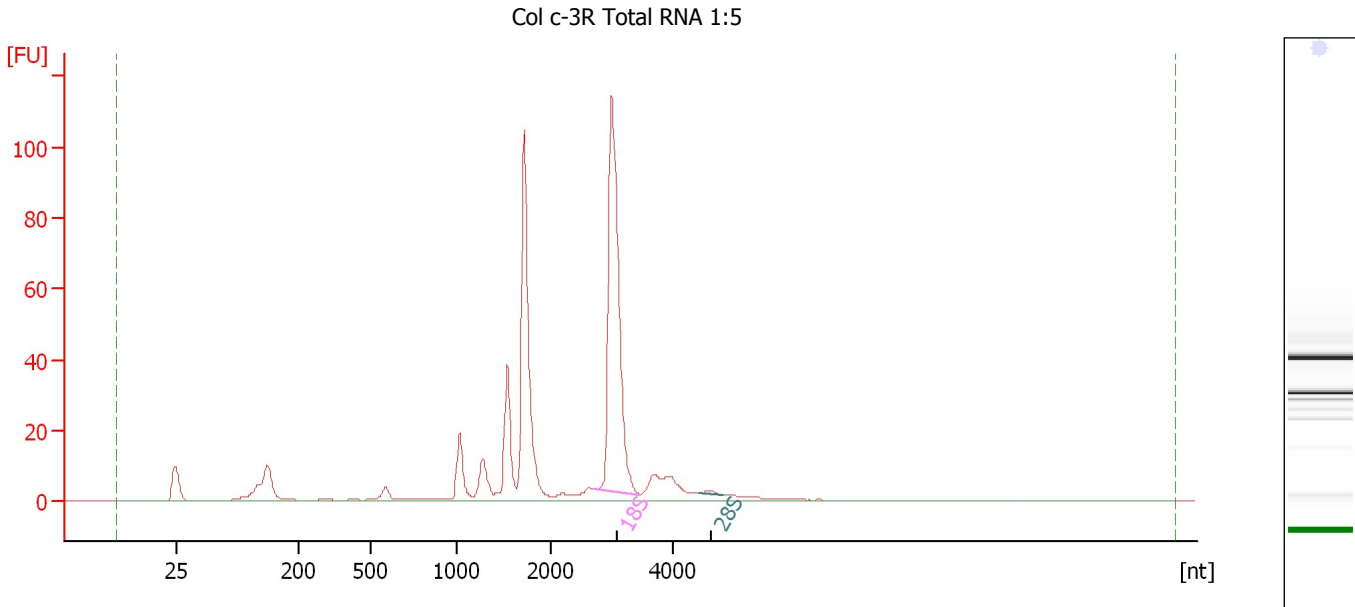
Fragment table for sample 2 : Col c-2R Total RNA 1:4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,734	3,508	149.2	34.1
28S	4,422	4,932	1.3	0.3

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Col c-3R Total RNA 1:5

RNA Area:	435.3	RNA Integrity Number (RIN):	6.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	204 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.10

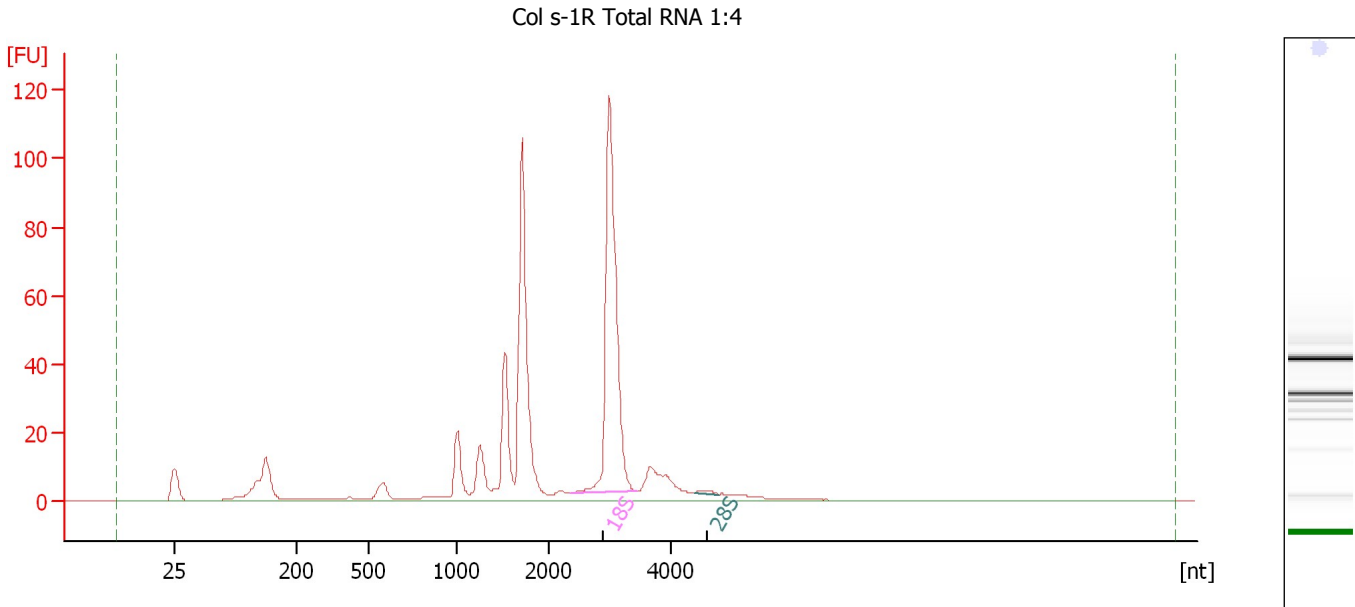
Fragment table for sample 3 : Col c-3R Total RNA 1:5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,715	3,455	142.8	32.8
28S	4,424	4,847	1.0	0.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Col s-1R Total RNA 1:4

RNA Area:	487.8	RNA Integrity Number (RIN):	6.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	228 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 6.10

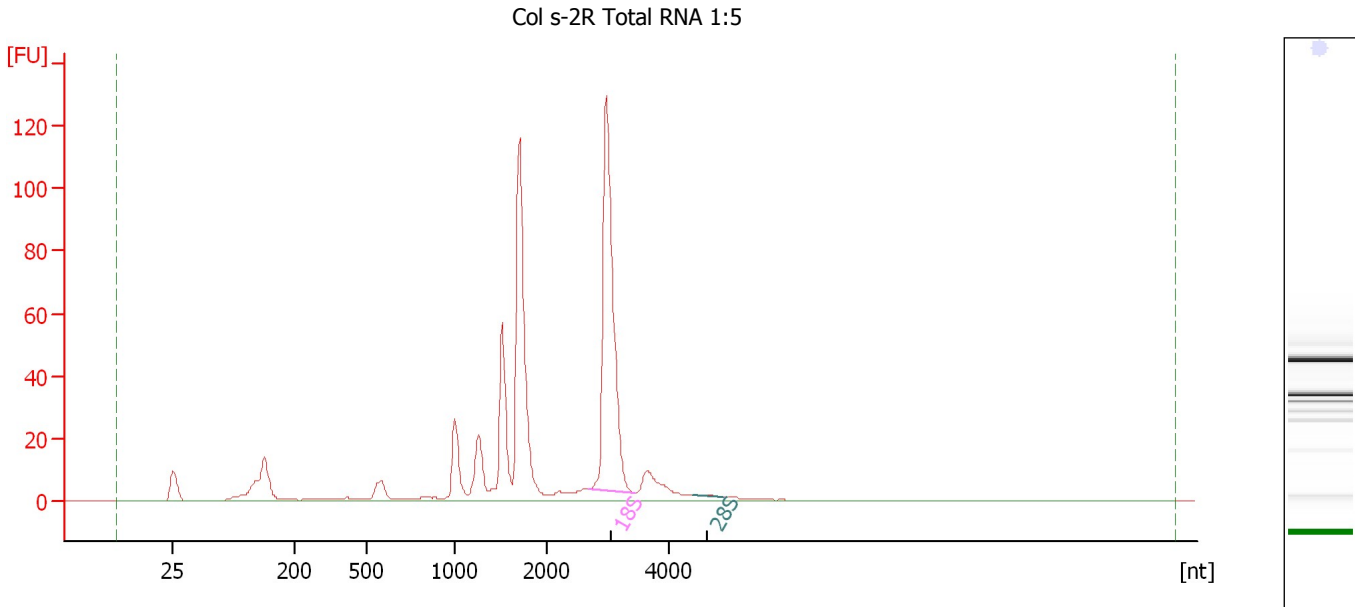
Fragment table for sample 4 : Col s-1R Total RNA 1:4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,359	3,454	151.6	31.1
28S	4,408	4,797	1.2	0.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Col s-2R Total RNA 1:5

RNA Area:	536.7	RNA Integrity Number (RIN):	5.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	251 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 5.90

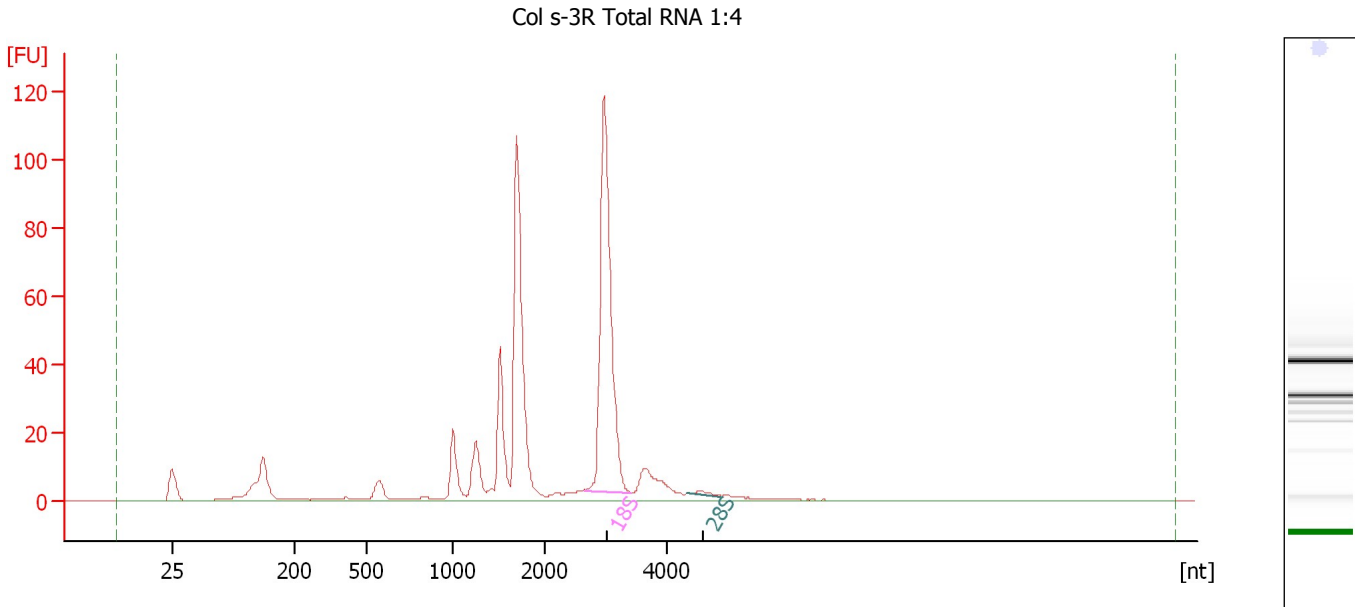
Fragment table for sample 5 : Col s-2R Total RNA 1:5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,675	3,436	166.4	31.0
28S	4,410	4,905	1.0	0.2

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Col s-3R Total RNA 1:4

RNA Area:	490.5	RNA Integrity Number (RIN):	6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	229 ng/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:6

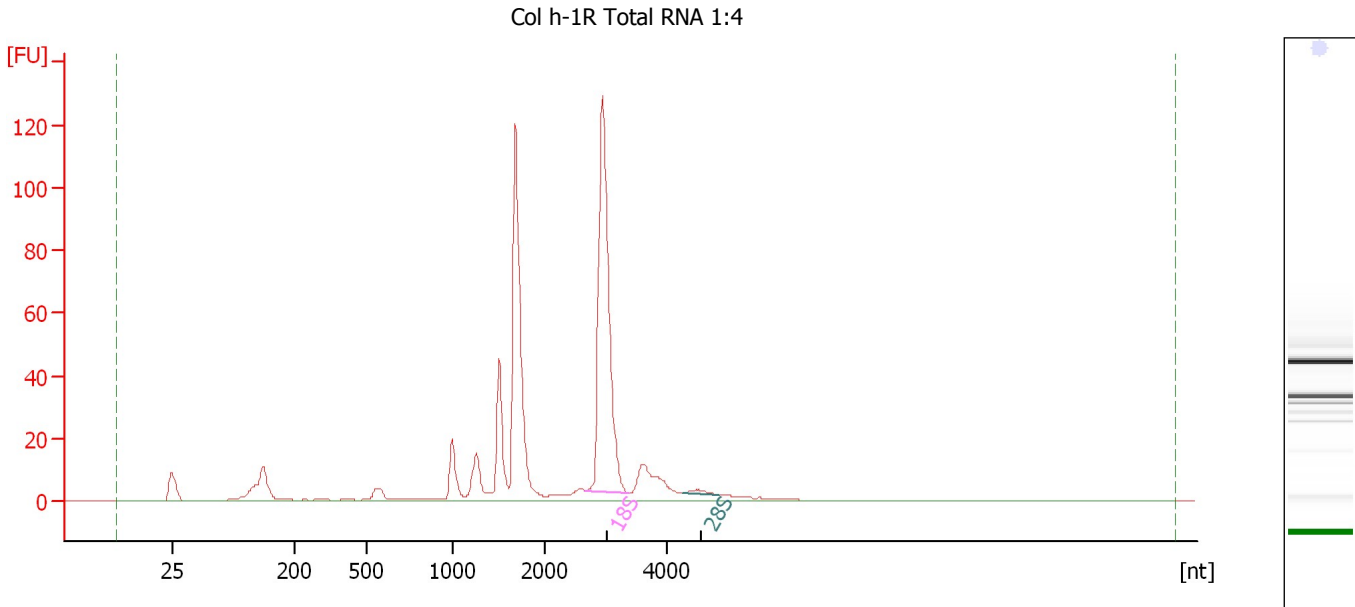
Fragment table for sample 6 : Col s-3R Total RNA 1:4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,655	3,418	156.0	31.8
28S	4,341	4,926	1.8	0.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Col h-1R Total RNA 1:4

RNA Area:	500.1	RNA Integrity Number (RIN):	6.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	234 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 6.10

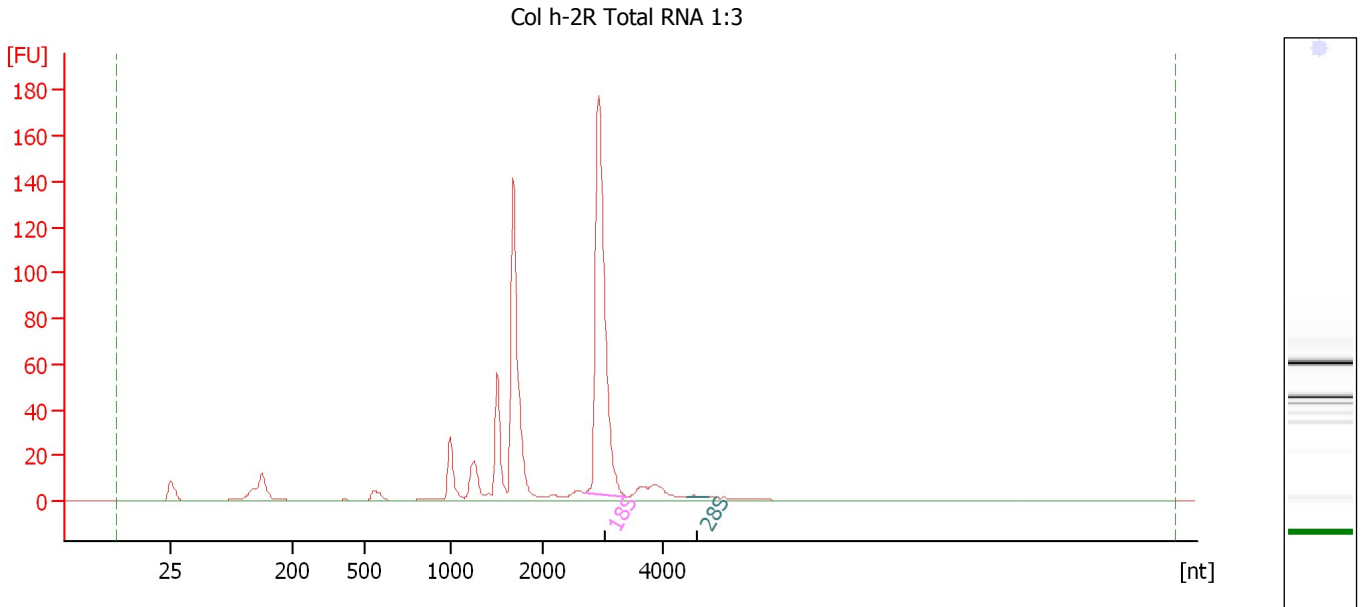
Fragment table for sample 7 : Col h-1R Total RNA 1:4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,655	3,382	163.0	32.6
28S	4,287	4,873	1.9	0.4

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Col h-2R Total RNA 1:3

RNA Area:	563.9	RNA Integrity Number (RIN):	6.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	264 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 6.10

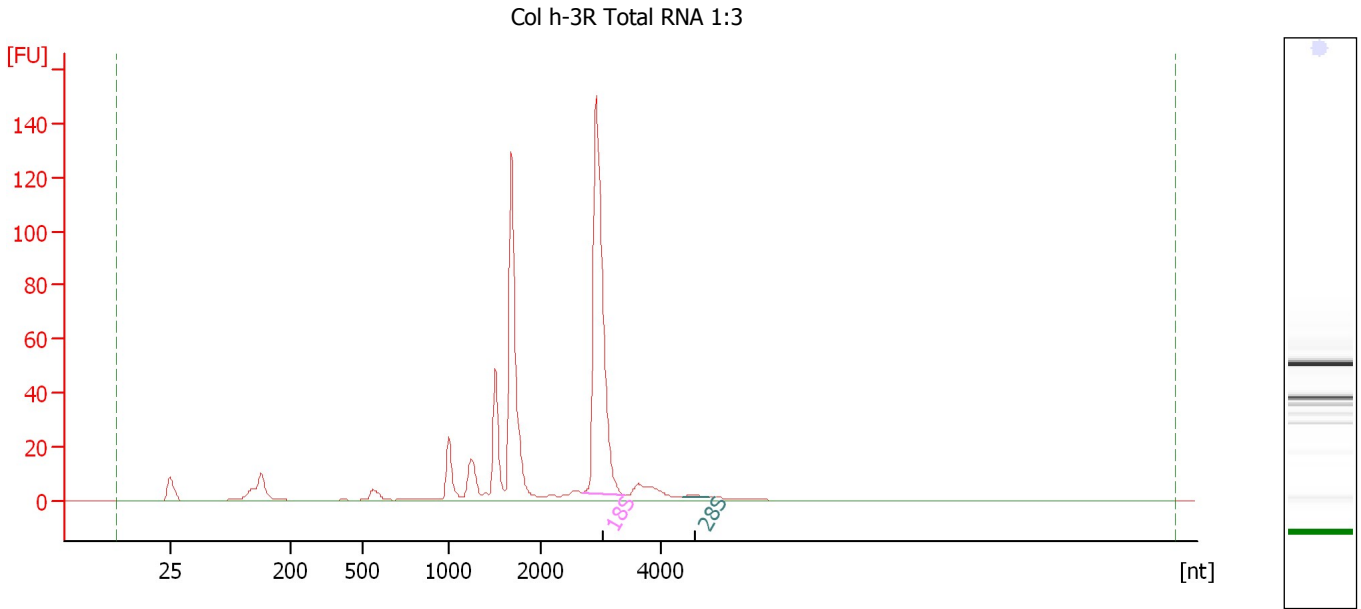
Fragment table for sample 8 : Col h-2R Total RNA 1:3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,688	3,400	202.2	35.9
28S	4,395	4,751	0.5	0.1

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Col h-3R Total RNA 1:3

RNA Area: 494.8 RNA Integrity Number (RIN): 6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 231 ng/μl
rRNA Ratio [28s / 18s]: 0.0
Result Flagging Color:
Result Flagging Label: RIN:6

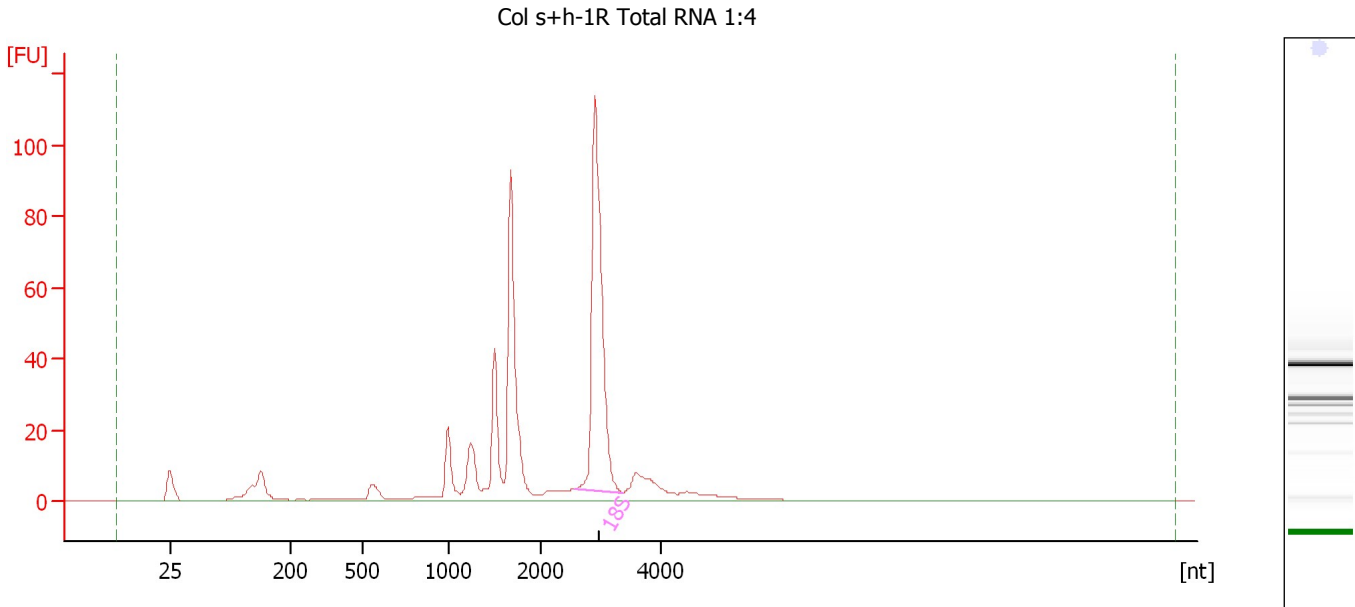
Fragment table for sample 9 : Col h-3R Total RNA 1:3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,686	3,399	175.1	35.4
28S	4,344	4,789	1.2	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Col s+h-1R Total RNA 1:4

RNA Area:	444.2	RNA Integrity Number (RIN):	6 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	208 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN:6

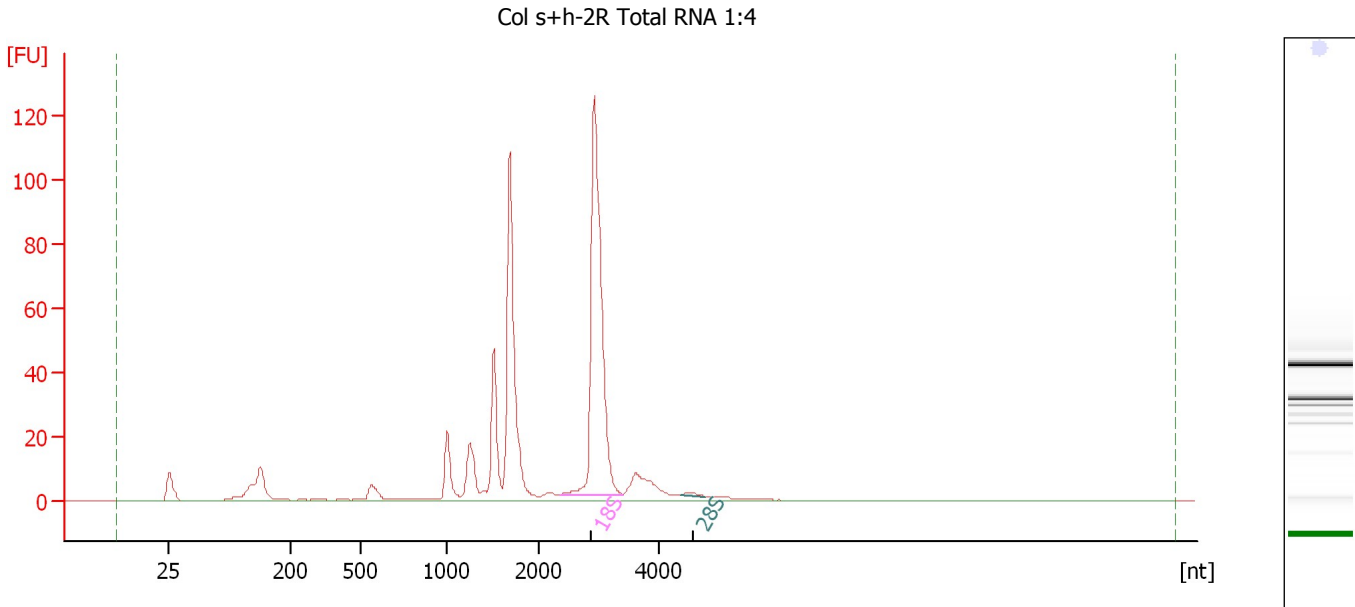
Fragment table for sample 10 : Col s+h-1R Total RNA 1:4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,544	3,346	138.1	31.1

Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : Col s+h-2R Total RNA 1:4

RNA Area:	478.9	RNA Integrity Number (RIN):	6.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	224 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 6.10

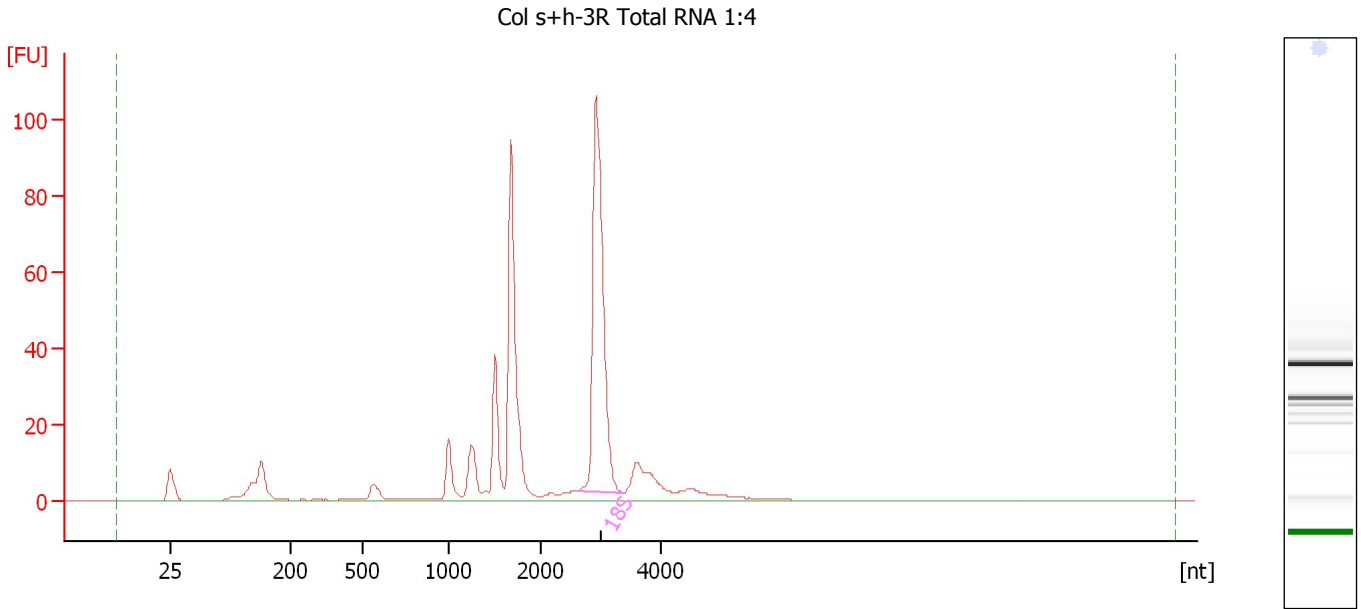
Fragment table for sample 11 : Col s+h-2R Total RNA 1:4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,362	3,399	161.7	33.8
28S	4,345	4,756	1.0	0.2

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
Modified: 5/14/2013 5:36:51 PM

Electropherogram Summary Continued ...



Overall Results for sample 12 : Col s+h-3R Total RNA 1:4

RNA Area:	424.3	RNA Integrity Number (RIN):	6.1 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration:	198 ng/μl		
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Color:	
		Result Flagging Label:	RIN: 6.10

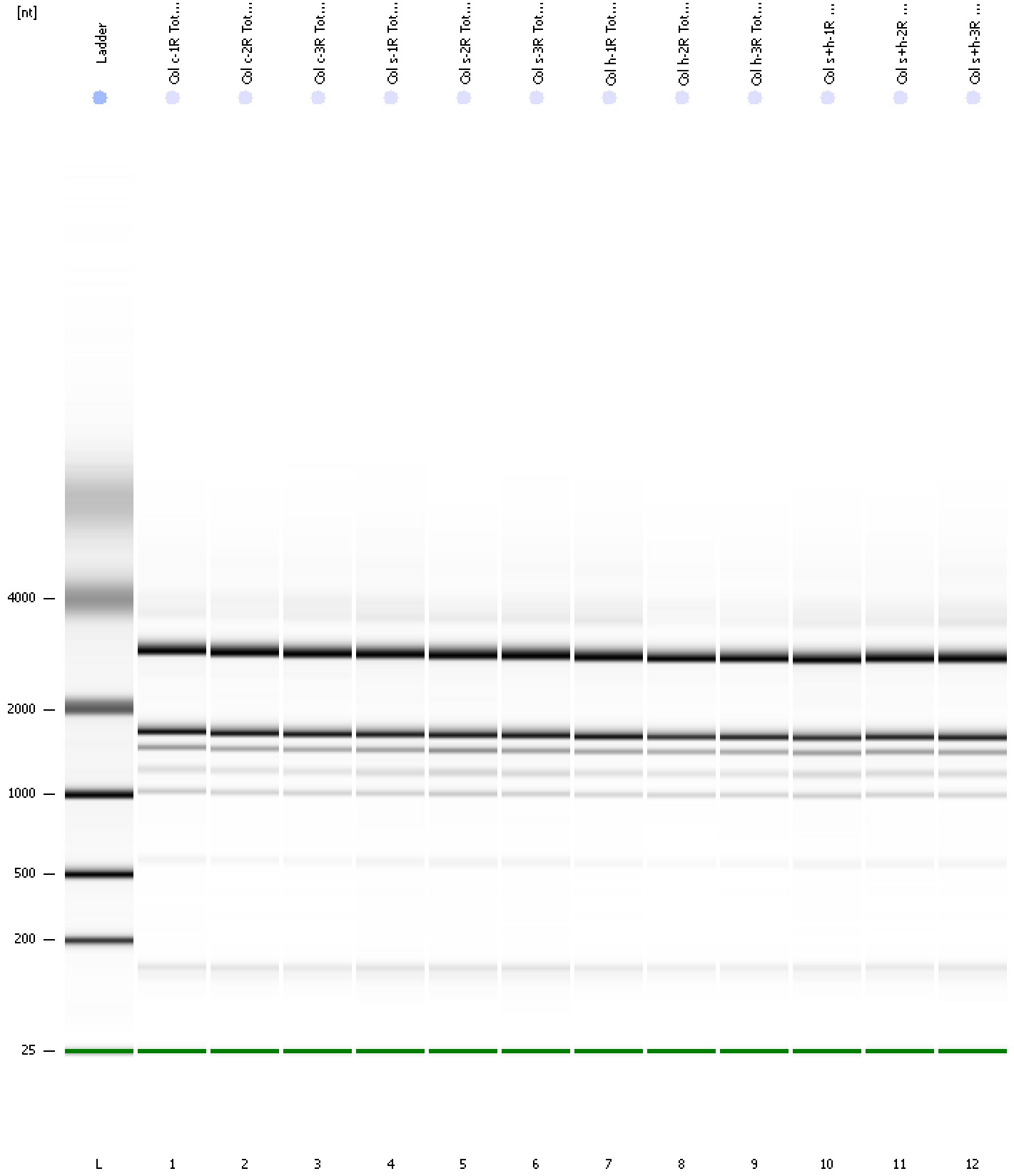
Fragment table for sample 12 : Col s+h-3R Total RNA 1:4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,597	3,381	133.3	31.4

Assay Class: Eukaryote Total RNA Nano
Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
Modified: 5/14/2013 5:36:51 PM

Gel Image



Assay Class: Eukaryote Total RNA Nano
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad

Created: 5/14/2013 5:11:53 PM
 Modified: 5/14/2013 5:36:51 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		5/14/2013 5:35:44 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-05-14\2013-05-14_003.xad)		Instrument	Run		5/14/2013 5:11:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/14/2013 5:11:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/14/2013 5:11:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/14/2013 5:11:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/14/2013 5:11:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/14/2013 5:11:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/14/2013 5:11:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1