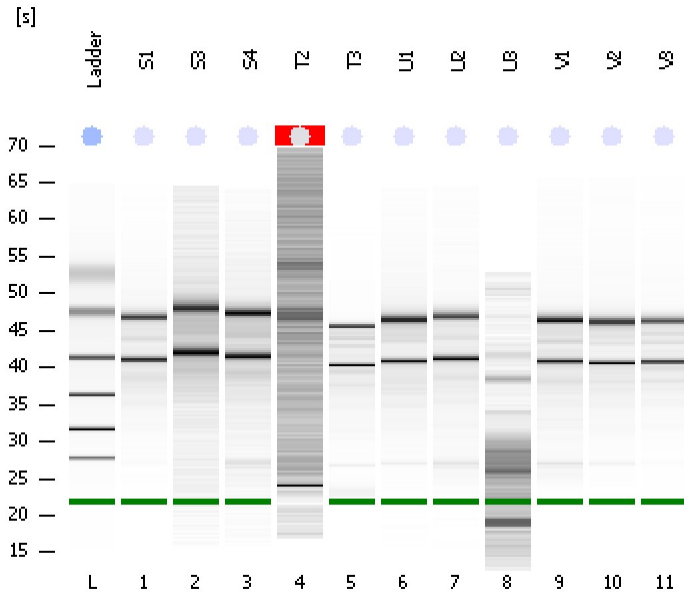


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Electrophoresis File Run Summary



Instrument Information:

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

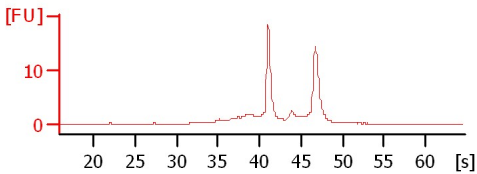
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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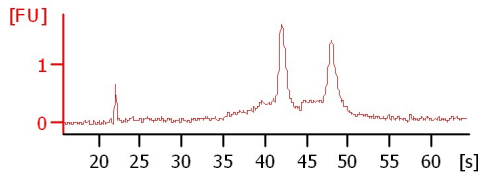
Chip Information:

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

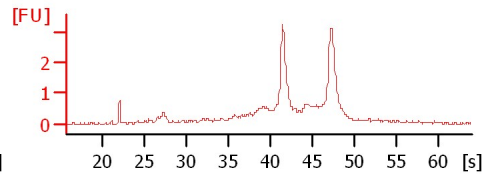
S1
Total RNA
RIN: 7.90



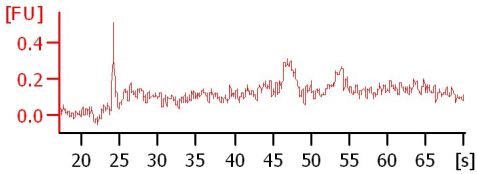
S3
Total RNA
RIN: 7.60



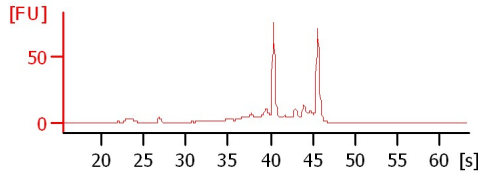
S4
Total RNA
RIN: 7.50



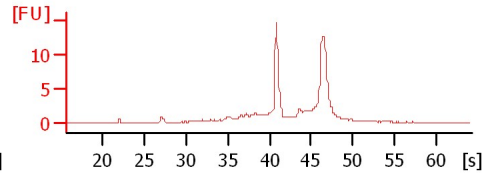
T2
Total RNA
RIN: N/A



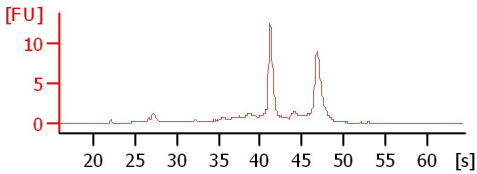
T3
Total RNA
RIN: 7.10



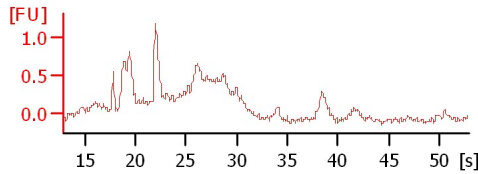
U1
Total RNA
RIN: 7.70



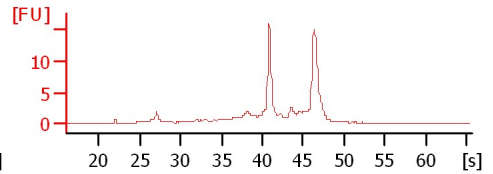
U2
Total RNA
RIN: 8



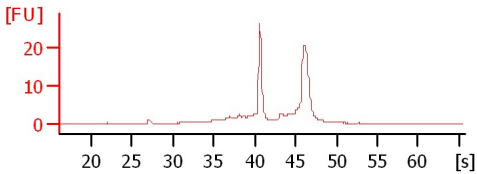
U3
Total RNA
RIN: 2.50



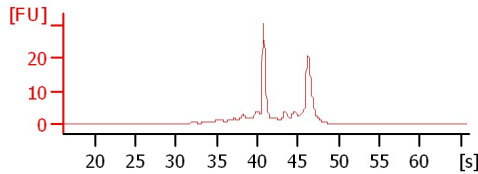
V1
Total RNA
RIN: 7.90



V2
Total RNA
RIN: 8.30



V3
Total RNA
RIN: 7.70



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
 Modified: 1/8/2015 11:15:20 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
S1	Total RNA	✓	RIN: 7.90	
S3	Total RNA	✓	RIN: 7.60	
S4	Total RNA	✓	RIN: 7.50	
T2	Total RNA	✓	RIN N/A	
T3	Total RNA	✓	RIN: 7.10	
U1	Total RNA	✓	RIN: 7.70	
U2	Total RNA	✓	RIN:8	
U3	Total RNA	✓	RIN: 2.50	
V1	Total RNA	✓	RIN: 7.90	
V2	Total RNA	✓	RIN: 8.30	
V3	Total RNA	✓	RIN: 7.70	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
Ladder Concentration [pg/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/μl] : 0
Used Lower Marker for Quantitation
Standard Curve Fit is Logarithmic
Show Data Aligned to Lower Marker

Integrator Settings

Integration Start Time [s] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

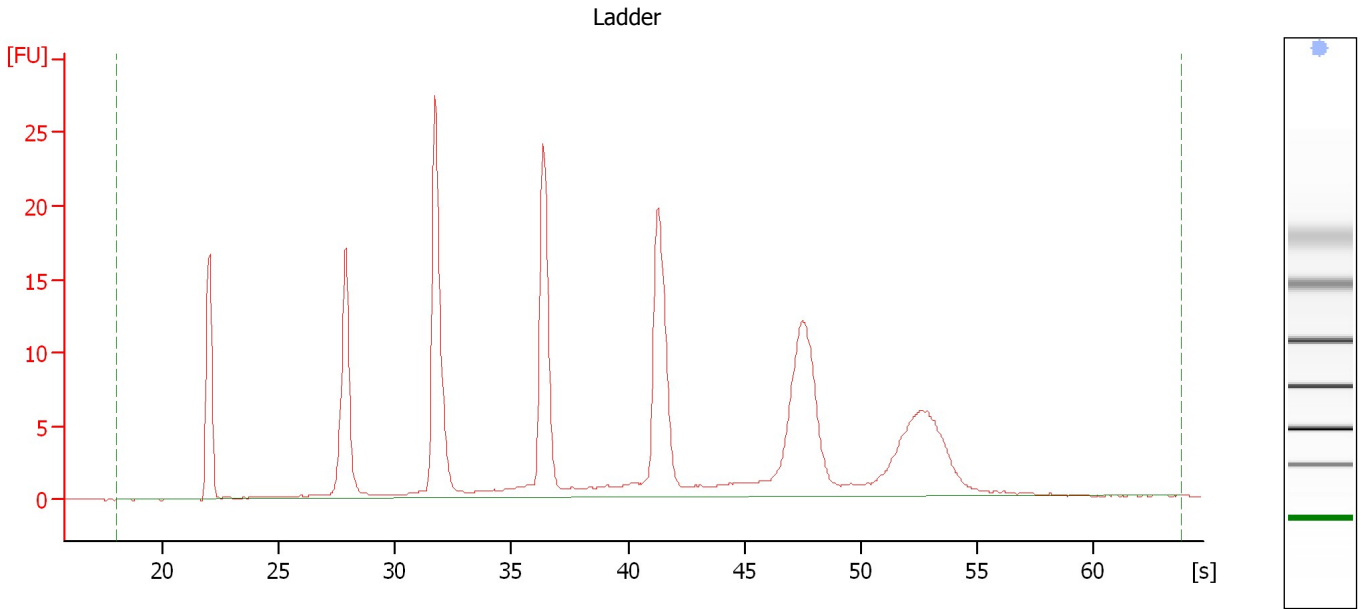
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary



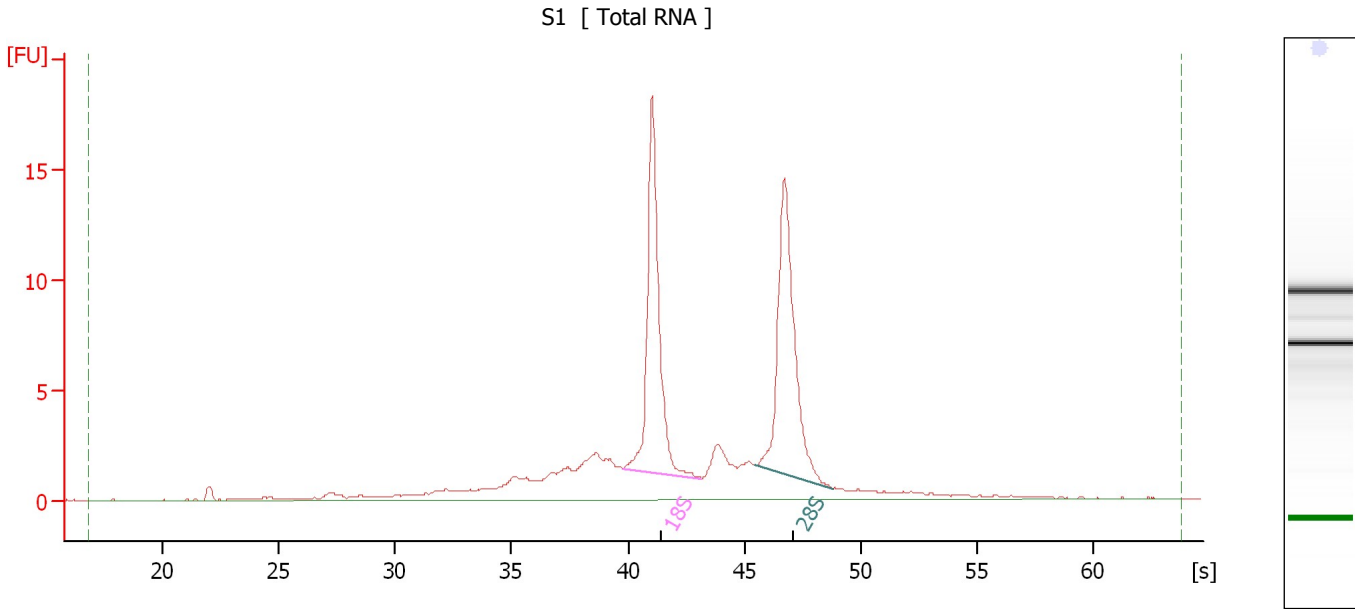
Overall Results for Ladder

RNA Area:	210.1	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : S1

Area Threshold : 0.1 Width Threshold [s] : 0.1

Overall Results for sample 1 : S1

RNA Area: 105.1 RNA Integrity Number (RIN): 7.9 (B.02.08, Anomaly Threshold(s) manually adapted)
RNA Concentration: 500 pg/μl
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Color:
Result Flagging Label: RIN: 7.90

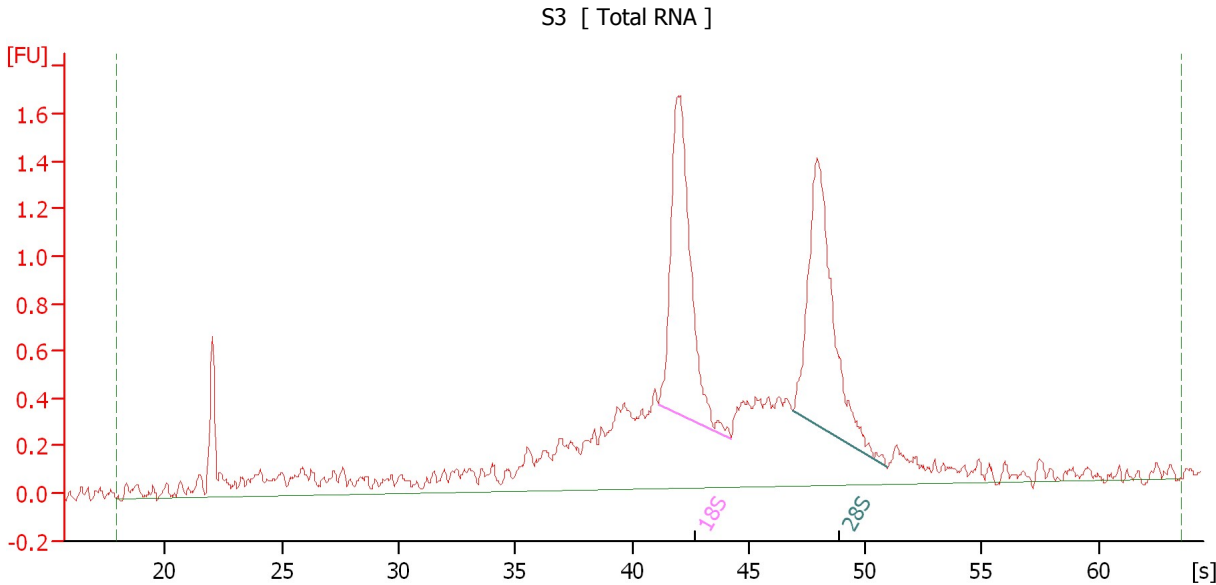
Fragment table for sample 1 : S1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,691	2,597	23.5	22.3
28S	3,343	4,417	23.4	22.2

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
 Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 2 : S3

Height Threshold [FU] : 0.1 Width Threshold [s] : 0.1
 Area Threshold : 0.1

Overall Results for sample 2 : S3

RNA Area: 20.0 RNA Integrity Number (RIN): 7.6 (B.02.08)
 RNA Concentration: 95 pg/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 7.60

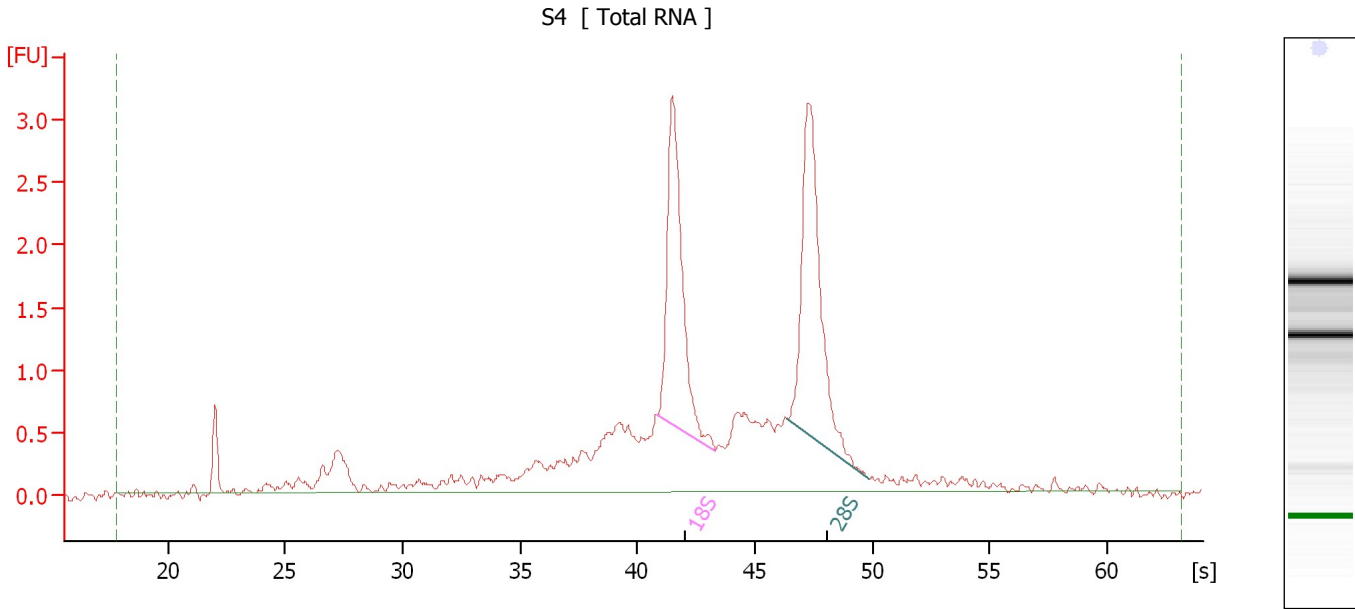
Fragment table for sample 2 : S3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,965	2,954	3.1	15.3
28S	3,802	5,095	2.9	14.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 3 : S4

Area Threshold : 0.1

Overall Results for sample 3 : S4

RNA Area:	28.0	RNA Integrity Number (RIN):	7.5 (B.02.08)
RNA Concentration:	133 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.1	Result Flagging Label:	RIN: 7.50

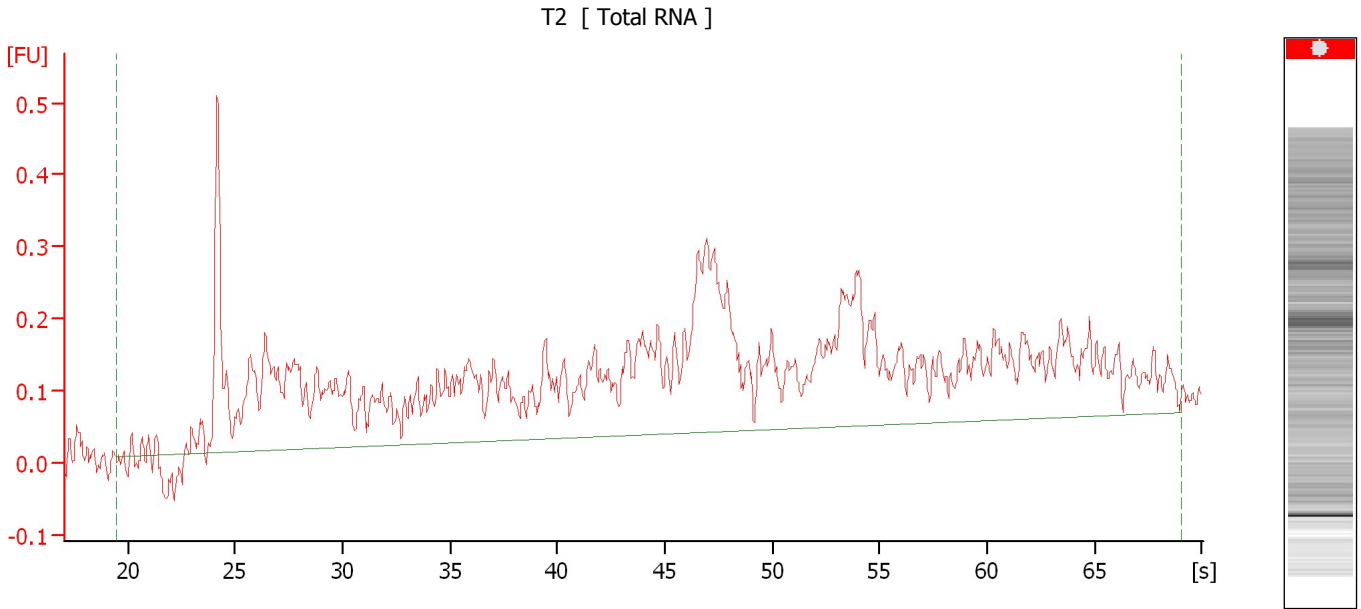
Fragment table for sample 3 : S4

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,903	2,644	4.6	16.4
28S	3,633	4,756	5.1	18.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : T2

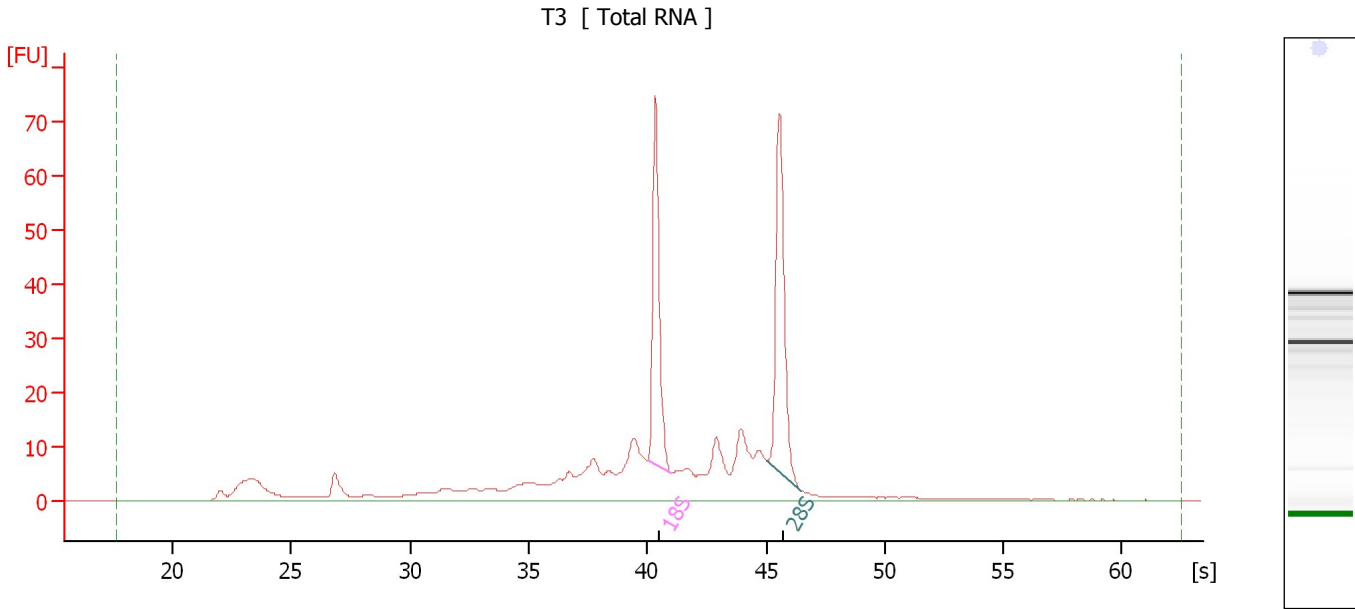
RNA Concentration: 48 pg/ μ l
rRNA Ratio [28s / 18s]: 0.0

Result Flagging Color:
Result Flagging Label: RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : T3

RNA Area: 367.3 RNA Integrity Number (RIN): 7.1 (B.02.08)
RNA Concentration: 1,748 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.0 Result Flagging Label: RIN: 7.10

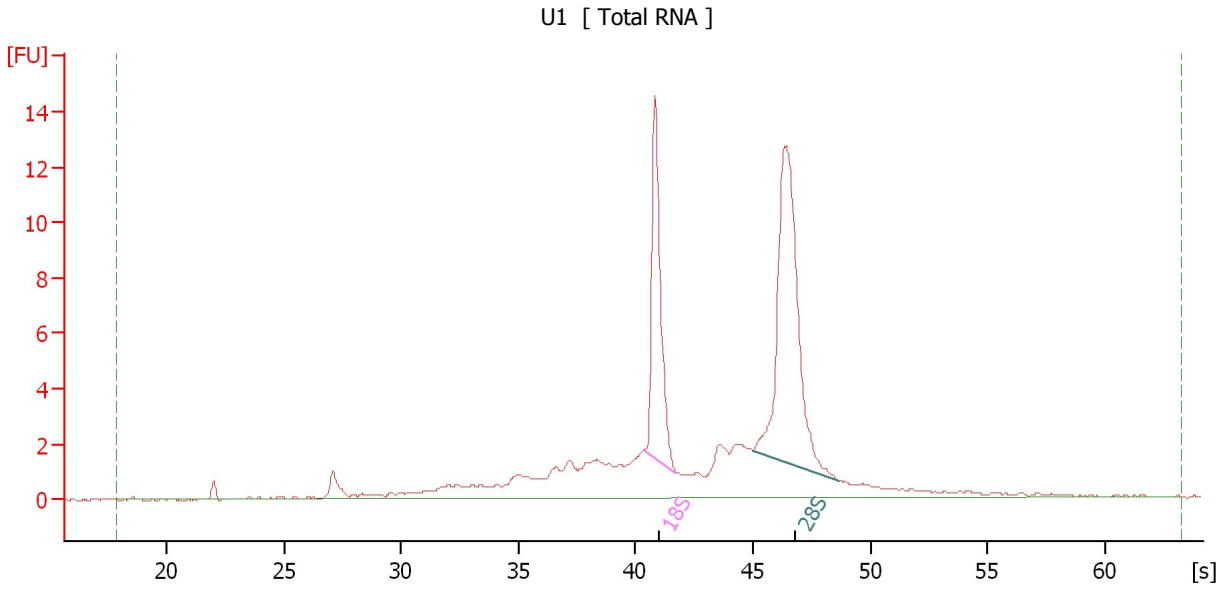
Fragment table for sample 5 : T3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,736	1,937	55.4	15.1
28S	3,201	3,655	57.6	15.7

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
 Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : U1

Height Threshold [FU] : 0.1 Width Threshold [s] : 0.1
 Area Threshold : 0.1

Overall Results for sample 6 : U1

RNA Area: 90.8 RNA Integrity Number (RIN): 7.7 (B.02.08)
 RNA Concentration: 432 pg/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 1.7 Result Flagging Label: RIN: 7.70

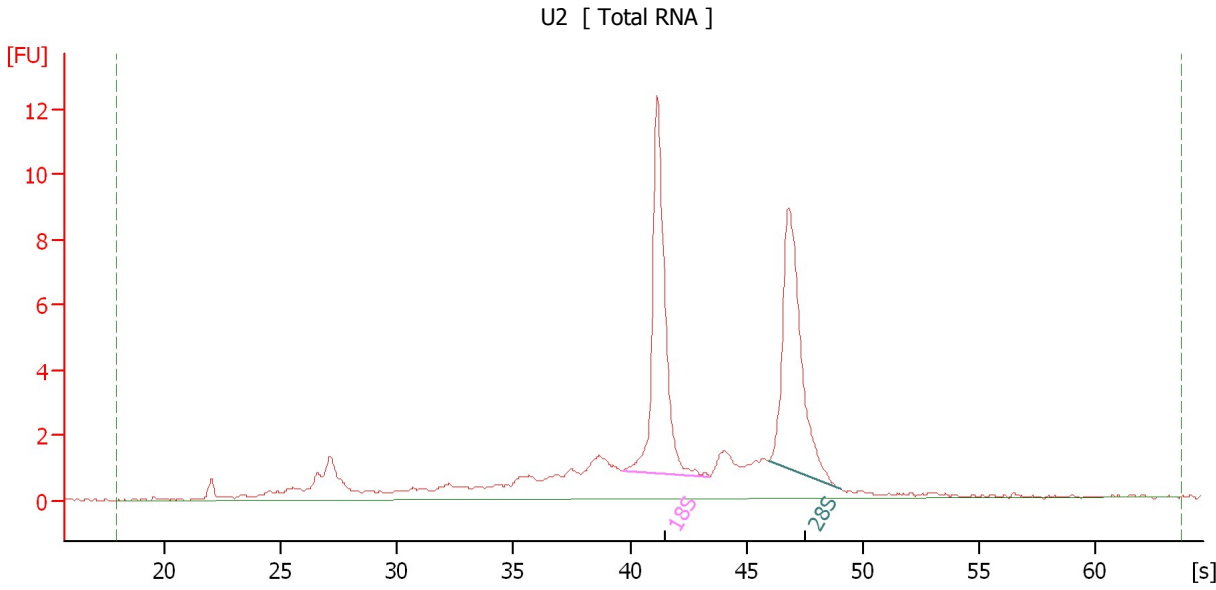
Fragment table for sample 6 : U1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,819	2,125	14.0	15.4
28S	3,191	4,360	24.4	26.9

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
 Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : U2

Area Threshold : 0.1 Width Threshold [s] : 0.1

Overall Results for sample 7 : U2

RNA Area:	79.2	RNA Integrity Number (RIN):	8 (B.02.08)
RNA Concentration:	377 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.9	Result Flagging Label:	RIN:8

Fragment table for sample 7 : U2

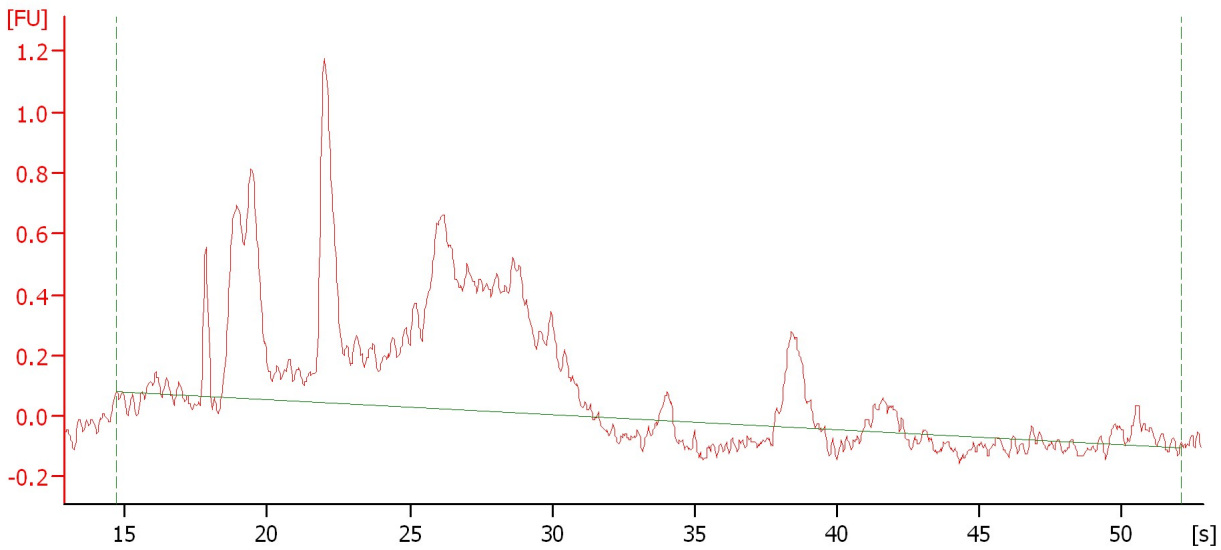
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,674	2,672	17.5	22.1
28S	3,506	4,489	15.6	19.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...

U3 [Total RNA]



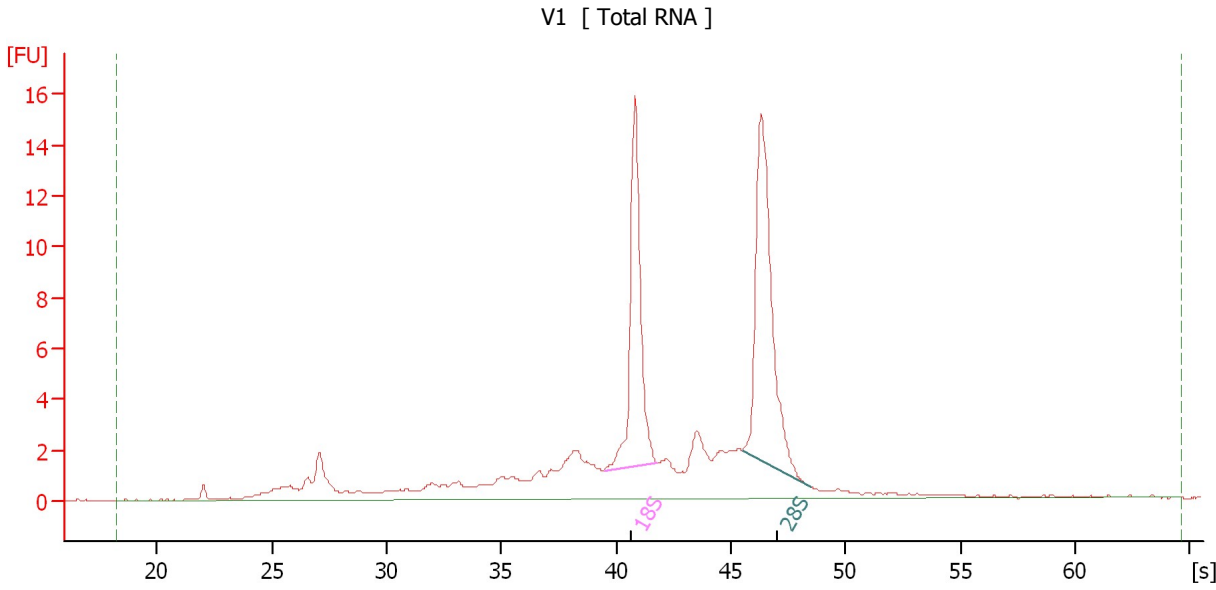
Overall Results for sample 8 : U3

RNA Area:	16.4	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	78 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
 Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 9 : V1

Area Threshold : 0.1

Overall Results for sample 9 : V1

RNA Area:	108.8	RNA Integrity Number (RIN):	7.9 (B.02.08)
RNA Concentration:	518 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 7.90

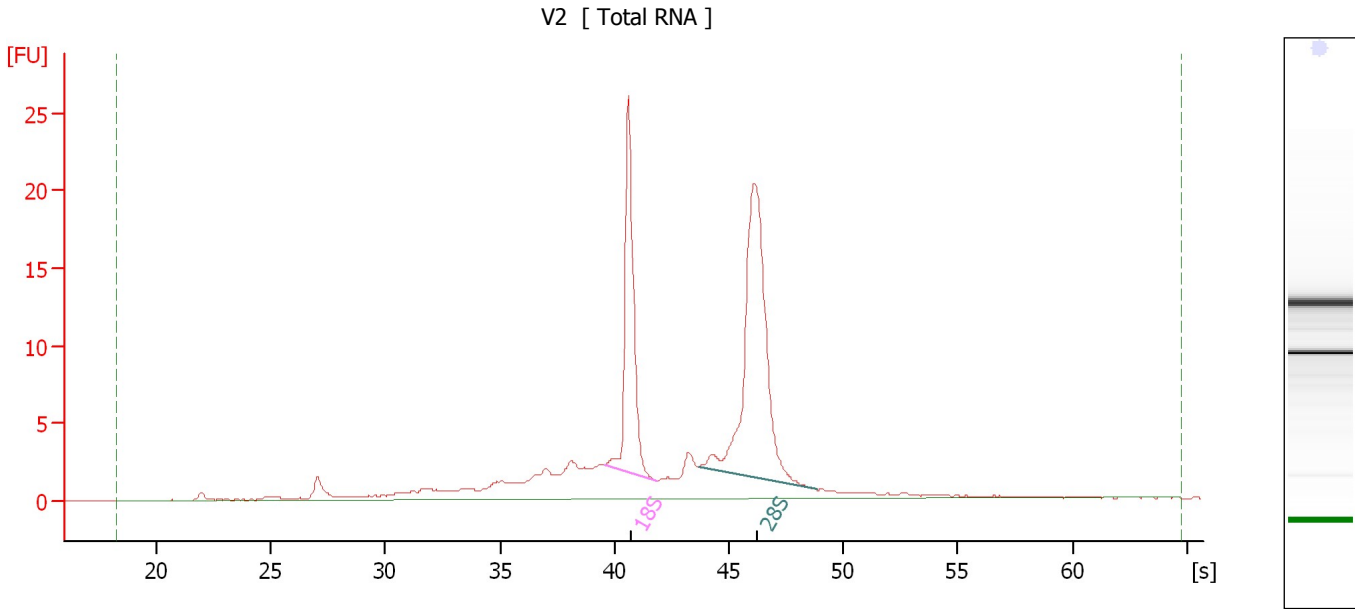
Fragment table for sample 9 : V1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,623	2,140	17.7	16.2
28S	3,349	4,301	23.8	21.8

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
 Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : V2

Height Threshold [FU] : 0.1 Width Threshold [s] : 0.1
 Area Threshold : 0.1

Overall Results for sample 10 : V2

RNA Area: 145.3 RNA Integrity Number (RIN): 8.3 (B.02.08)
 RNA Concentration: 691 pg/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 1.8 Result Flagging Label: RIN: 8.30

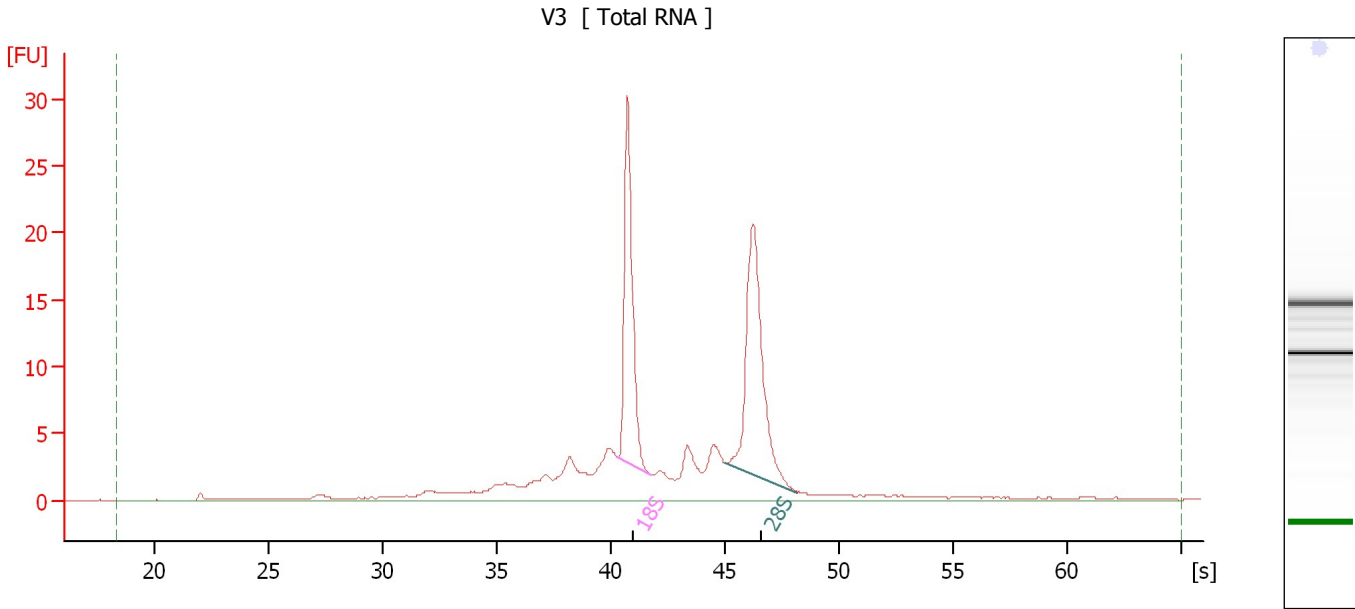
Fragment table for sample 10 : V2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,640	2,168	25.6	17.6
28S	2,774	4,425	45.1	31.0

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
 Modified: 1/8/2015 11:15:20 AM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 11 : V3

Height Threshold [FU] : 0.1 Width Threshold [s] : 0.1
 Area Threshold : 0.1

Overall Results for sample 11 : V3

RNA Area: 147.6 RNA Integrity Number (RIN): 7.7 (B.02.08)
 RNA Concentration: 702 pg/μl Result Flagging Color:
 rRNA Ratio [28s / 18s]: 1.2 Result Flagging Label: RIN: 7.70

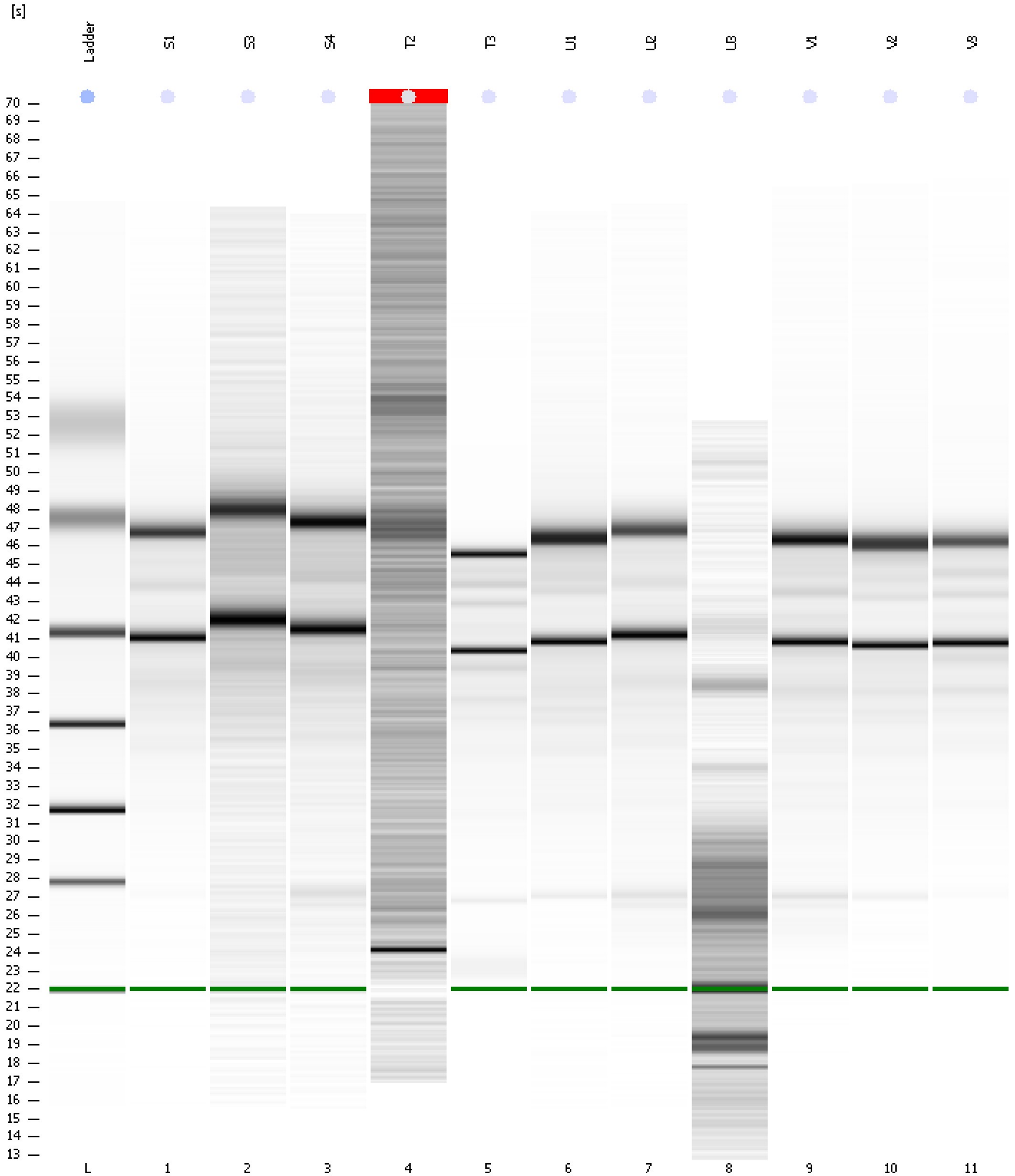
Fragment table for sample 11 : V3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,799	2,135	27.4	18.5
28S	3,200	4,219	32.9	22.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad

Created: 1/8/2015 10:02:36 AM
Modified: 1/8/2015 11:15:20 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico Created: 1/8/2015 10:02:36 AM
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad Modified: 1/8/2015 11:15:20 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		1/8/2015 10:25:32 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-01-08\2015-01-08_001.xad)		Instrument	Run		1/8/2015 10:02:41 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		1/8/2015 10:02:41 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		1/8/2015 10:02:41 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		1/8/2015 10:02:41 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		1/8/2015 10:02:41 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		1/8/2015 10:02:41 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		1/8/2015 10:02:41 AM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1