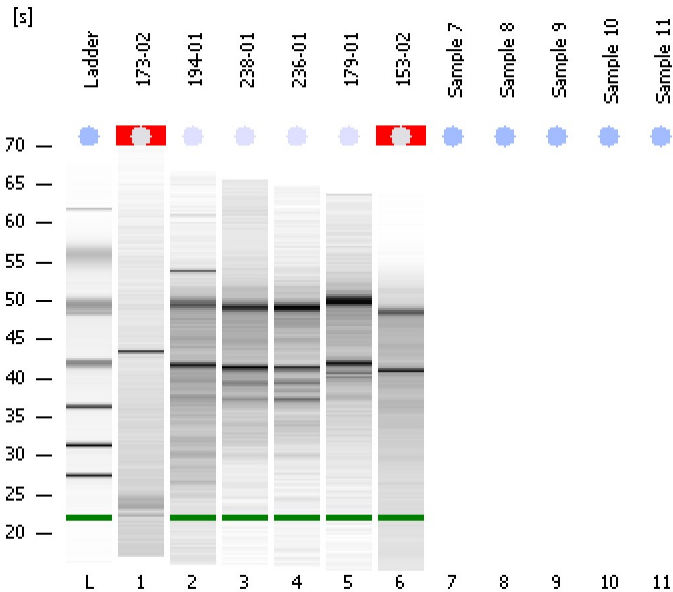


Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
 Modified: 7/22/2014 10:39:40 AM

Electrophoresis File Run Summary



Instrument Information:

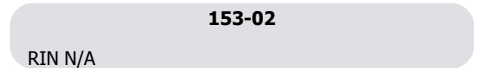
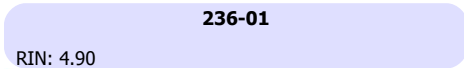
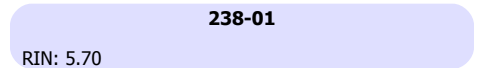
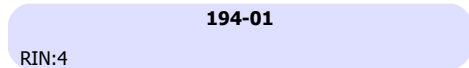
Instrument Name: DE13701086 Firmware: C.01.069
 Serial#: DE13701086 Type: G2938B

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:



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
 Modified: 7/22/2014 10:39:40 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
173-02		✓	RIN N/A	
194-01		✓	RIN:4	
238-01		✓	RIN: 5.70	
236-01		✓	RIN: 4.90	
179-01		✓	RIN: 5.40	
153-02		✓	RIN N/A	
Sample 7				
Sample 8				
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 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

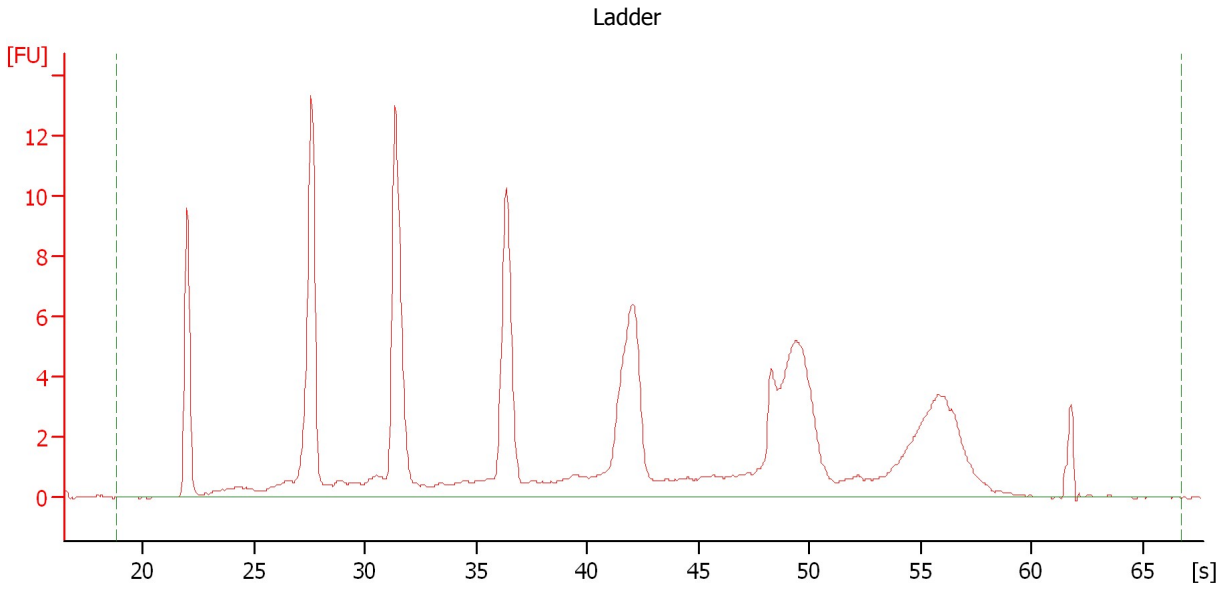
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Electropherogram Summary



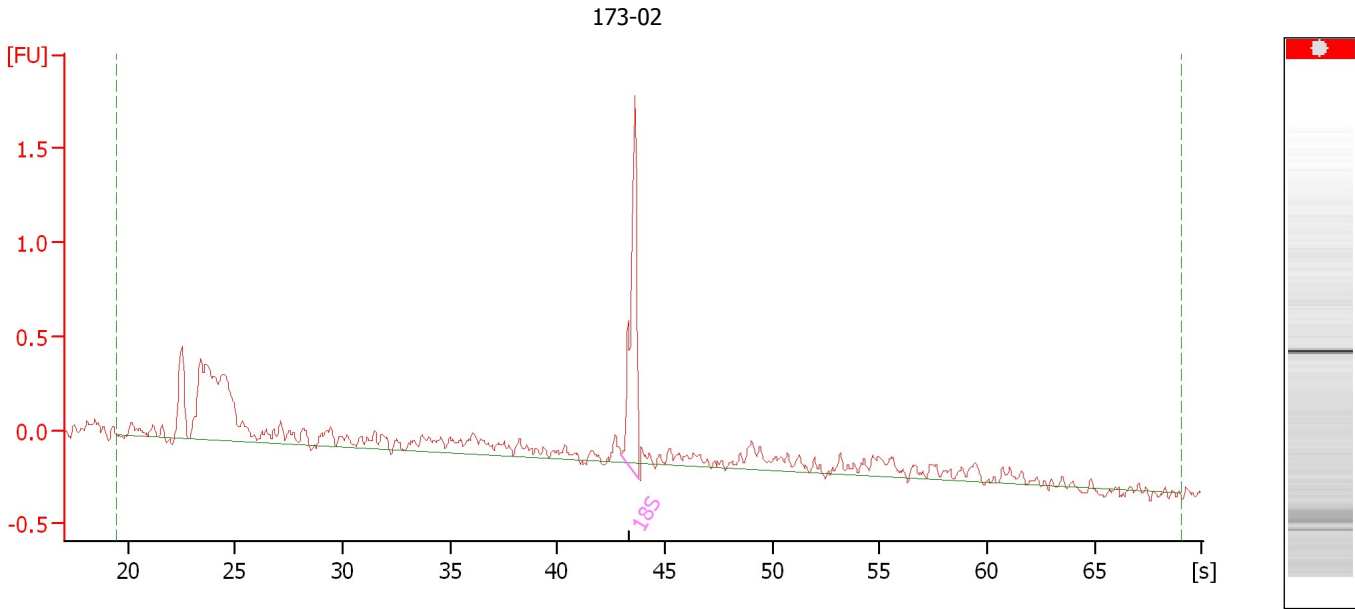
Overall Results for Ladder

RNA Area:	139.3	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 173-02

RNA Area:	9.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	67 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

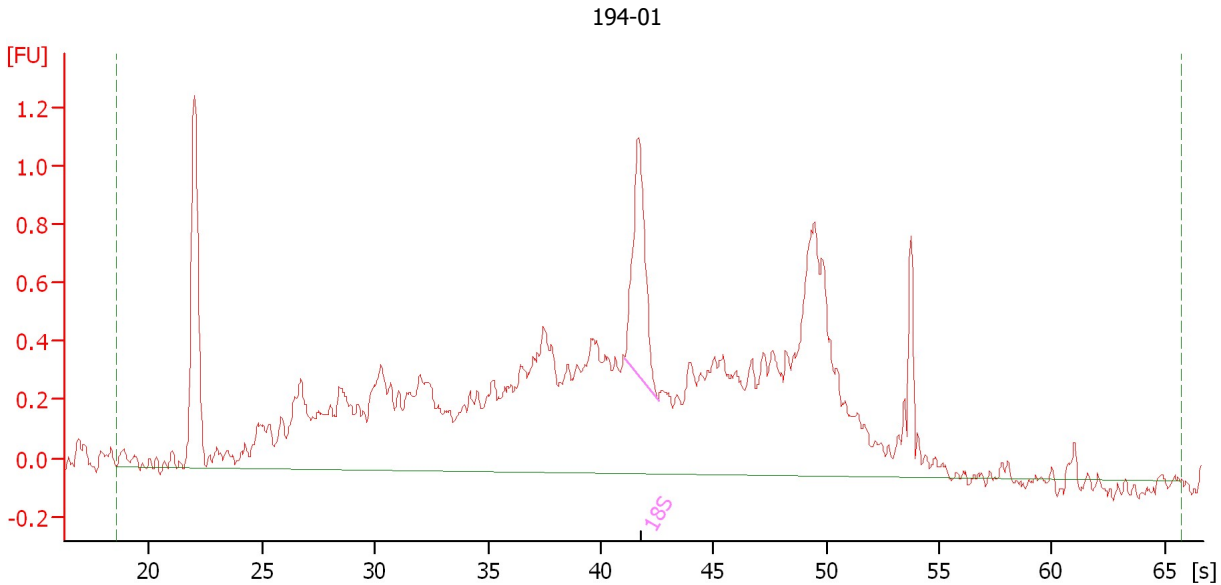
Fragment table for sample 1 : 173-02

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,242	2,475	1.4	15.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 194-01

RNA Area:	25.1	RNA Integrity Number (RIN):	4 (B.02.08)
RNA Concentration:	180 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:4

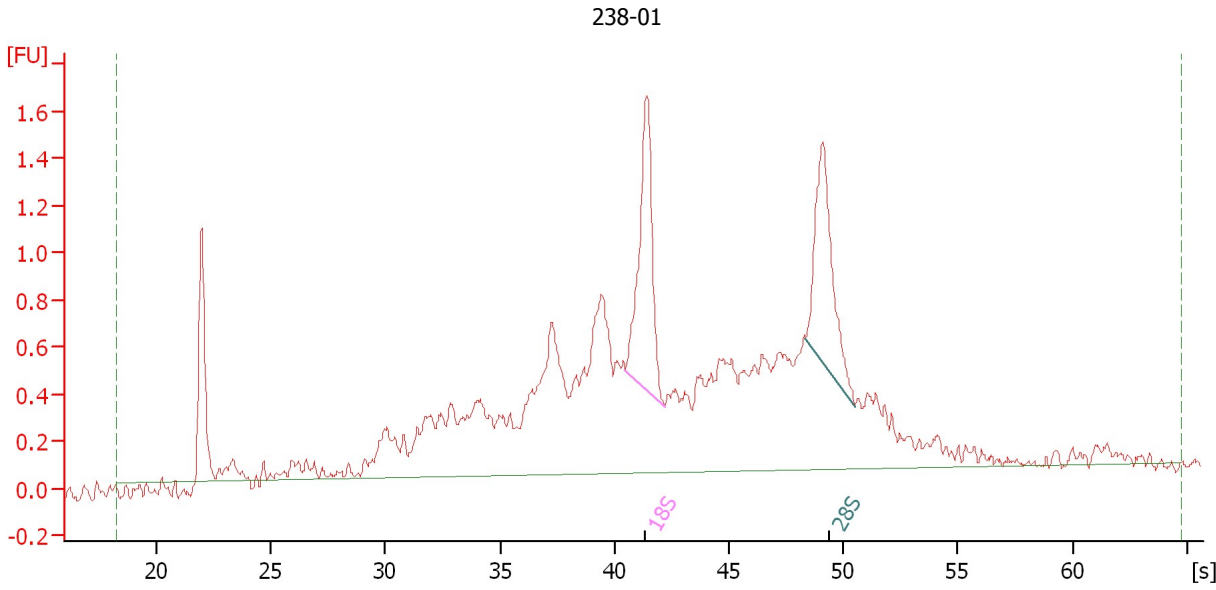
Fragment table for sample 2 : 194-01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,829	2,138	1.2	4.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 238-01

RNA Area:	25.3	RNA Integrity Number (RIN):	5.7 (B.02.08)
RNA Concentration:	182 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN: 5.70

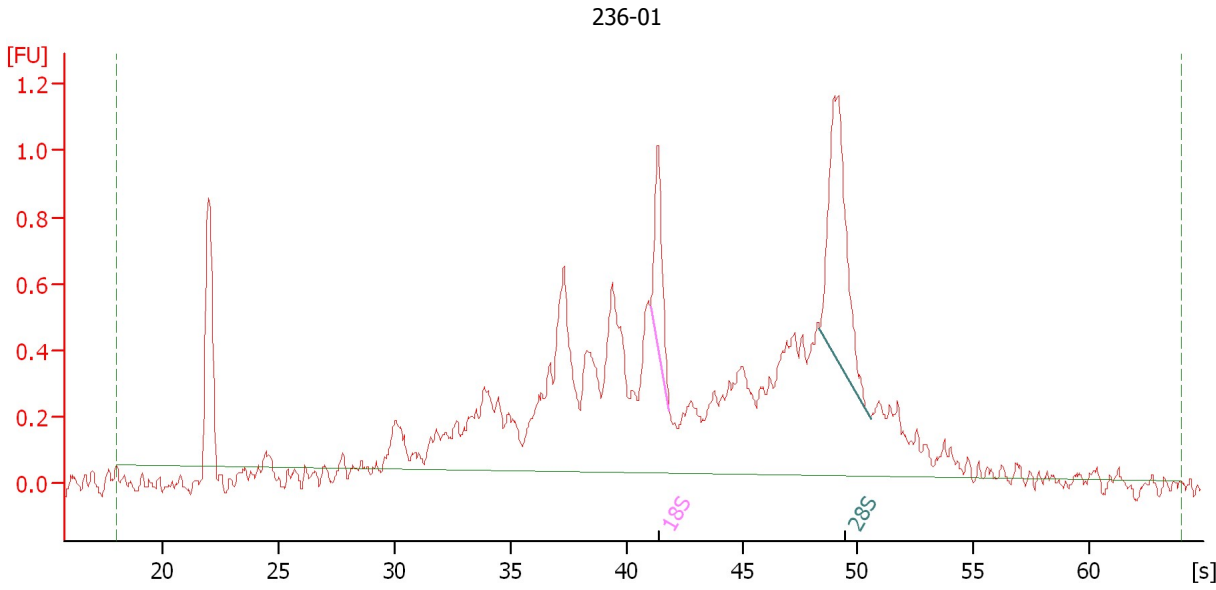
Fragment table for sample 3 : 238-01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,722	2,028	1.9	7.6
28S	3,724	4,303	1.6	6.5

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 236-01

RNA Area: 16.0 RNA Integrity Number (RIN): 4.9 (B.02.08)
RNA Concentration: 115 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 2.5 Result Flagging Label: RIN: 4.90

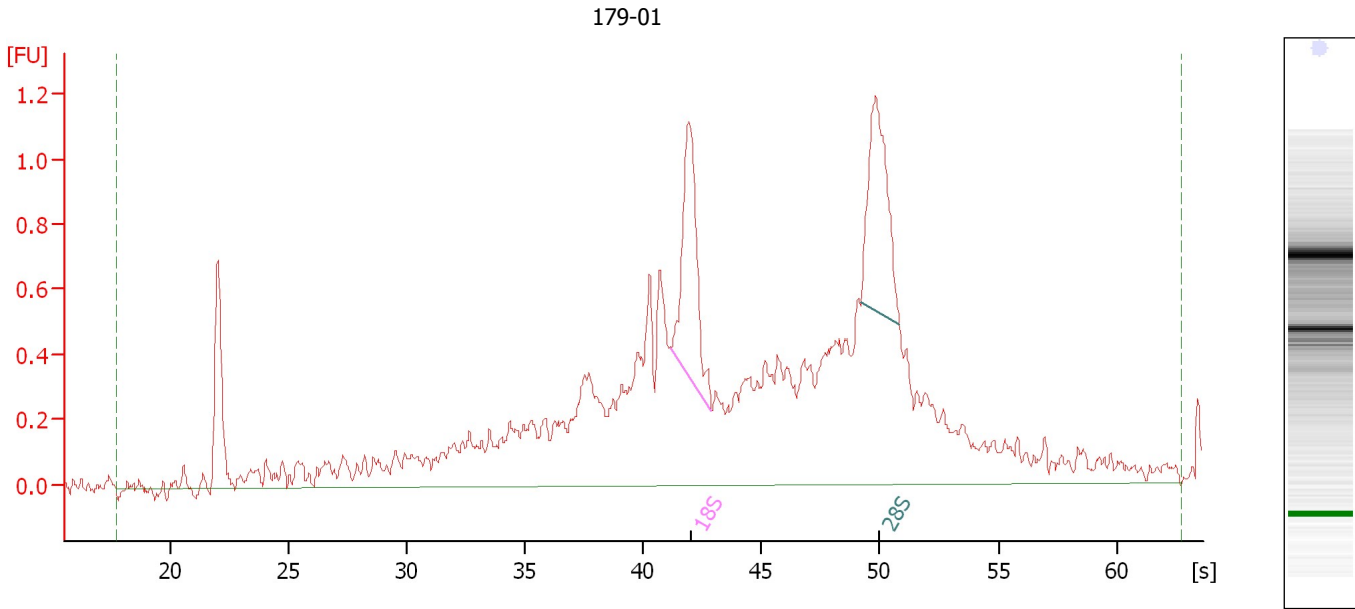
Fragment table for sample 4 : 236-01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,819	1,965	0.6	3.5
28S	3,722	4,318	1.4	8.9

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 179-01

RNA Area: 21.2 RNA Integrity Number (RIN): 5.4 (B.02.08)
RNA Concentration: 152 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 0.9 Result Flagging Label: RIN: 5.40

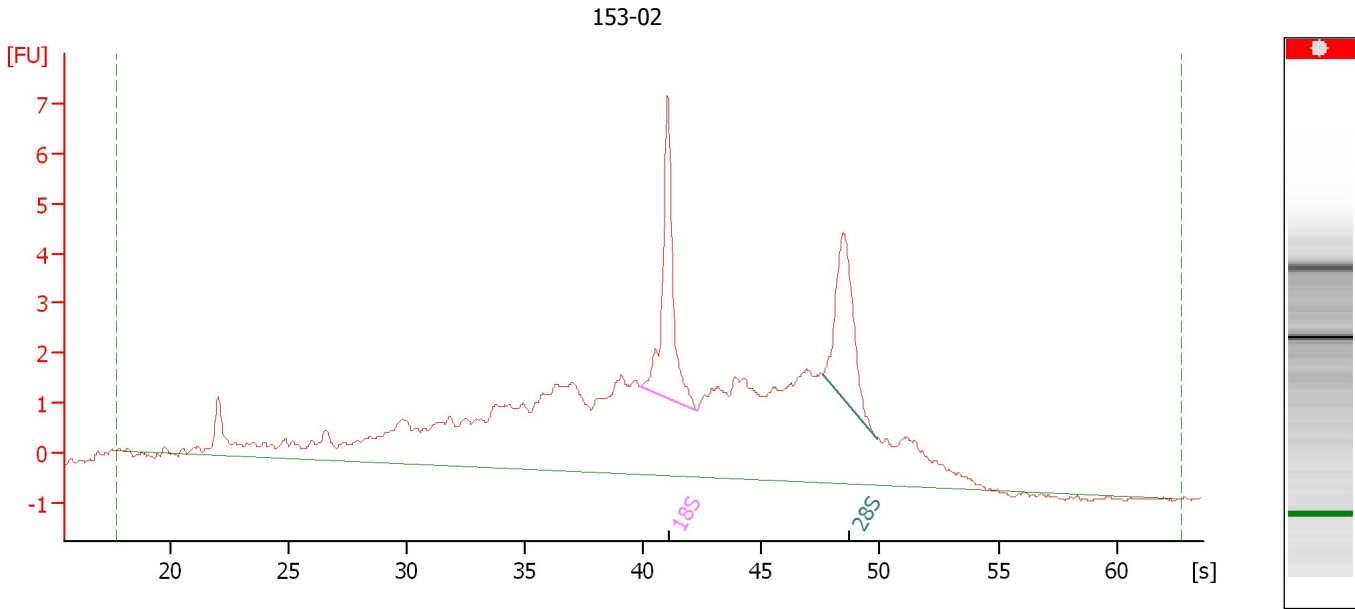
Fragment table for sample 5 : 179-01

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,845	2,218	1.3	6.1
28S	3,961	4,397	1.2	5.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 153-02

RNA Area:	105.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	753 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.8	Result Flagging Label:	RIN N/A

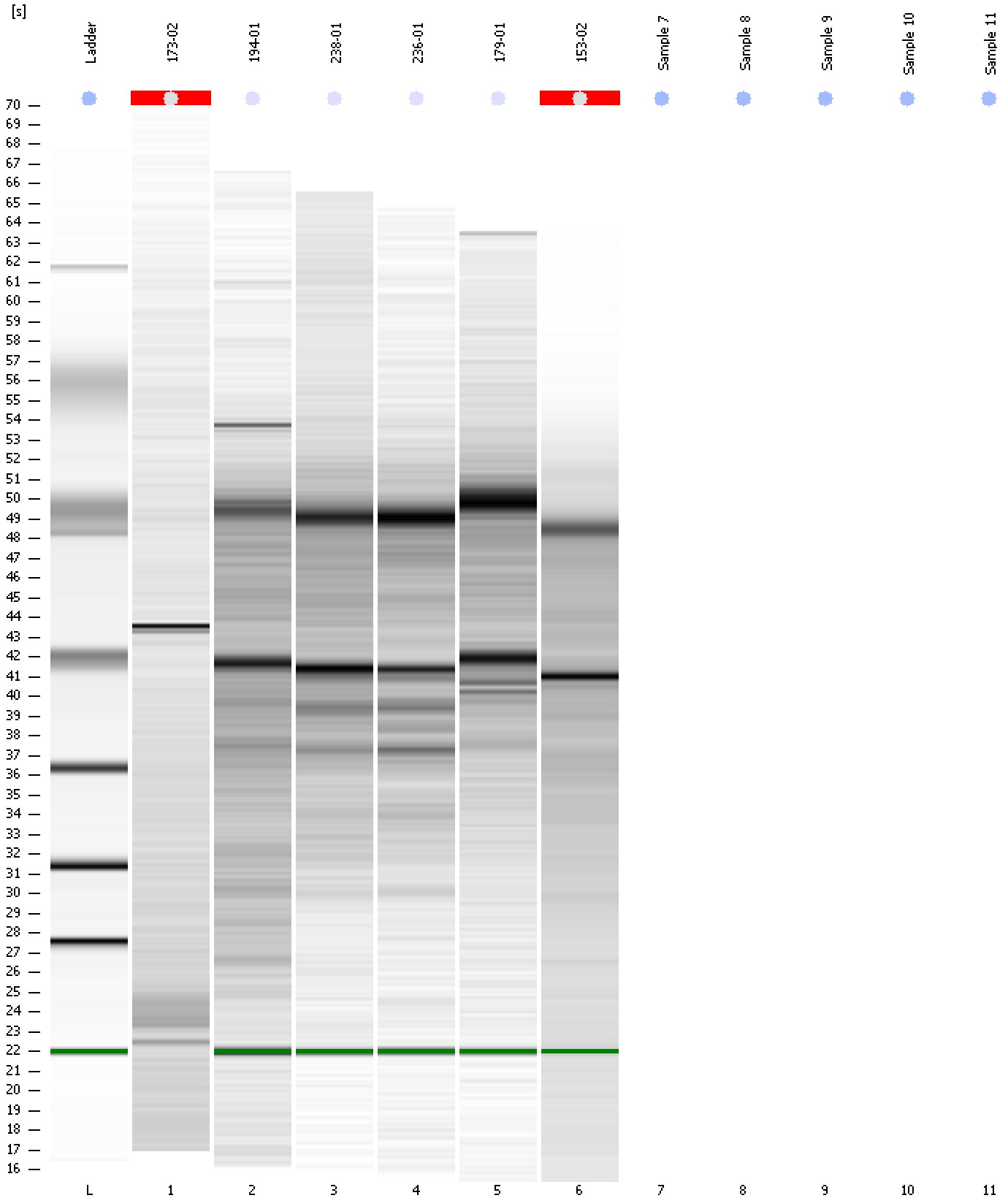
Fragment table for sample 6 : 153-02

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,614	2,044	7.6	7.2
28S	3,513	4,136	5.9	5.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
Modified: 7/22/2014 10:39:40 AM

Invalid Samples

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\Data\2014-07-22\2014-07-22_001.xad

Created: 7/22/2014 10:23:55 AM
 Modified: 7/22/2014 10:39:40 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 7)		Instrument	Run		7/22/2014 10:39:39 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\2014-07-22\2014-07-22_001.xad)		Instrument	Run		7/22/2014 10:24:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/22/2014 10:24:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/22/2014 10:24:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/22/2014 10:24:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/22/2014 10:24:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/22/2014 10:24:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/22/2014 10:24:01 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1