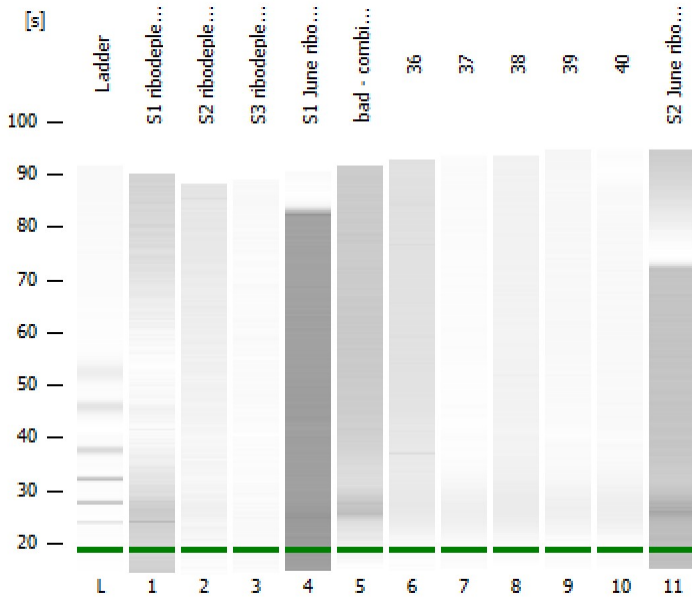


Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files (x86)\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

Assay Class: mRNA Pico  
Version: 2.6  
Assay Comments: mRNA Analysis pg sensitivity

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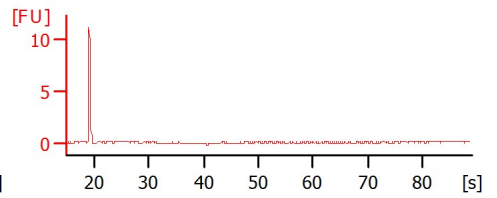
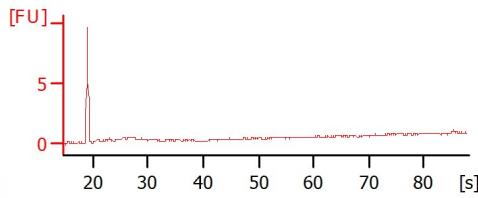
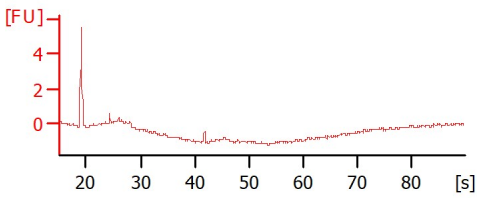
Chip Information:

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

S1 ribodepleted RNA

S2 ribodepleted RNA

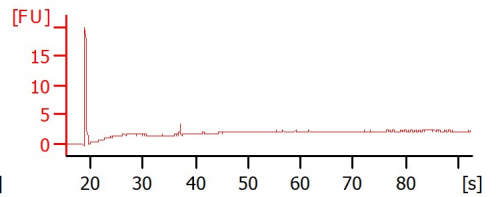
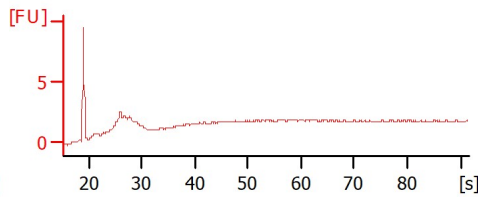
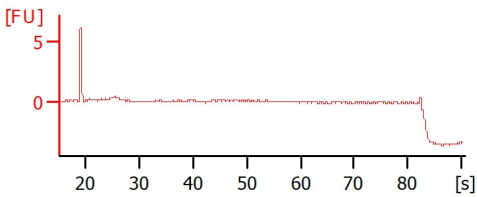
S3 ribodepleted RNA



S1 June ribodepleted RNA

bad - combined 2 different samples?

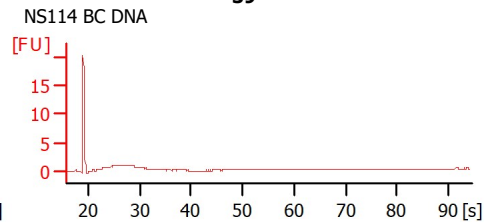
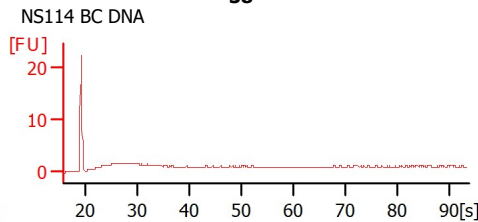
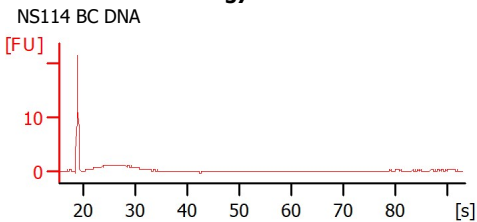
36



37

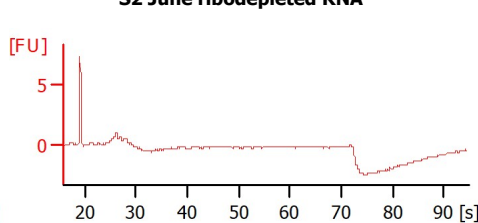
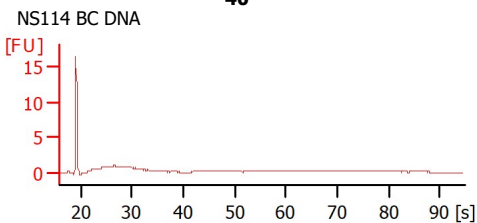
38

39



40

S2 June ribodepleted RNA



Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
 Modified: 6/17/2020 6:06:37 PM

**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
S1 ribodepleted RNA		✓		
S2 ribodepleted RNA		✓		
S3 ribodepleted RNA		✓		
S1 June ribodepleted RNA		✓		
bad - combined 2 different samples?		✓		
36	NS114 BC DNA	✓		
37	NS114 BC DNA	✓		
38	NS114 BC DNA	✓		
39	NS114 BC DNA	✓		
40	NS114 BC DNA	✓		
S2 June ribodepleted RNA		✓		
Ladder		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

## Electrophoresis Assay Details

### General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 14  
Maximum Visible Range [s] : 85  
Start Analysis Time Range [s] : 15  
End Analysis Time Range [s] : 84  
Ladder Concentration [pg/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ l] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

### Integrator Settings

Integration Start Time [s] : 15  
Integration End Time [s] : 84  
Slope Threshold : 0.2  
Height Threshold [FU] : 0.5  
Area Threshold : 0.1  
Width Threshold [s] : 0.2  
Baseline Plateau [s] : 0.5

### Filter Settings

Filter Width [s] : 0.5  
Polynomial Order : 4

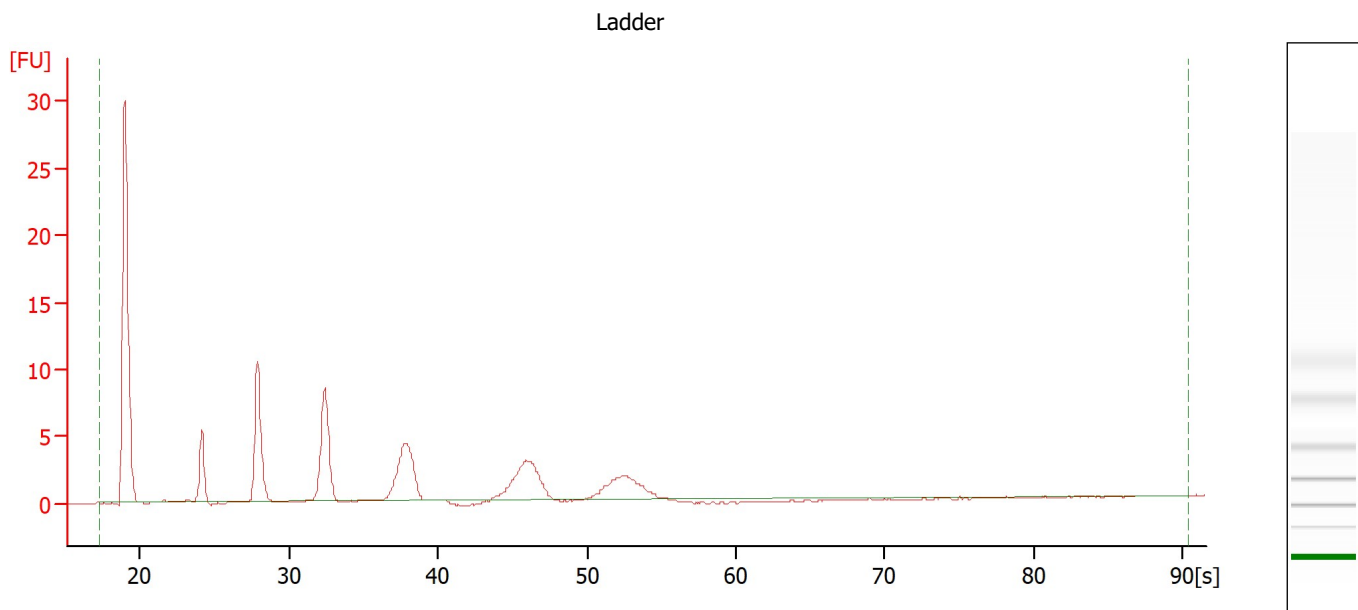
### Ladder

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

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary**



**Overall Results for Ladder**

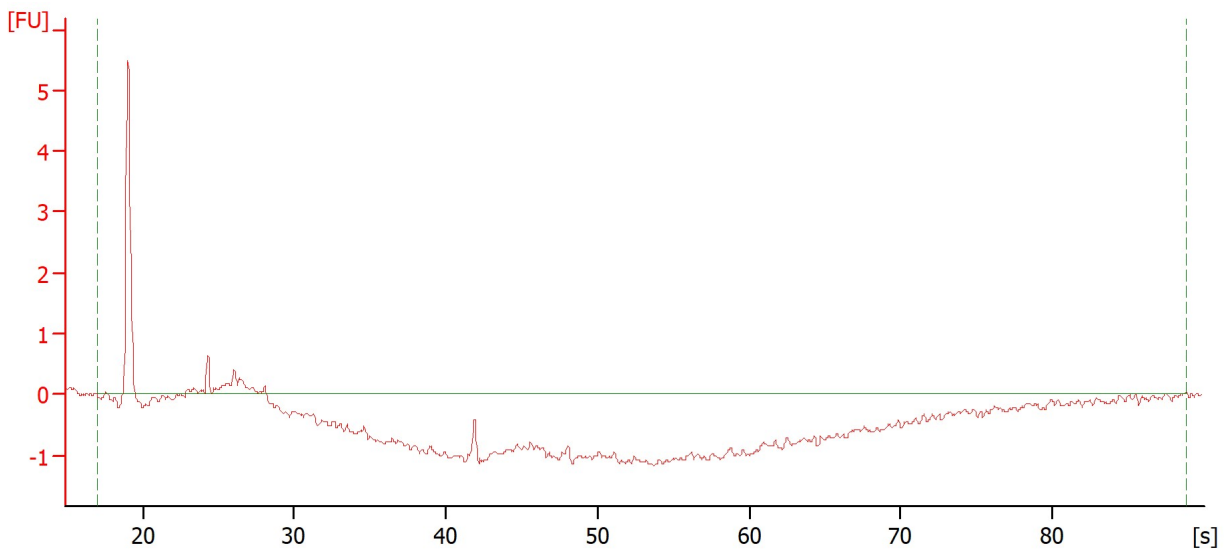
RNA Area: 78.7                      RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

S1 ribodepleted RNA



**Overall Results for sample 1 : S1 ribodepleted RNA**

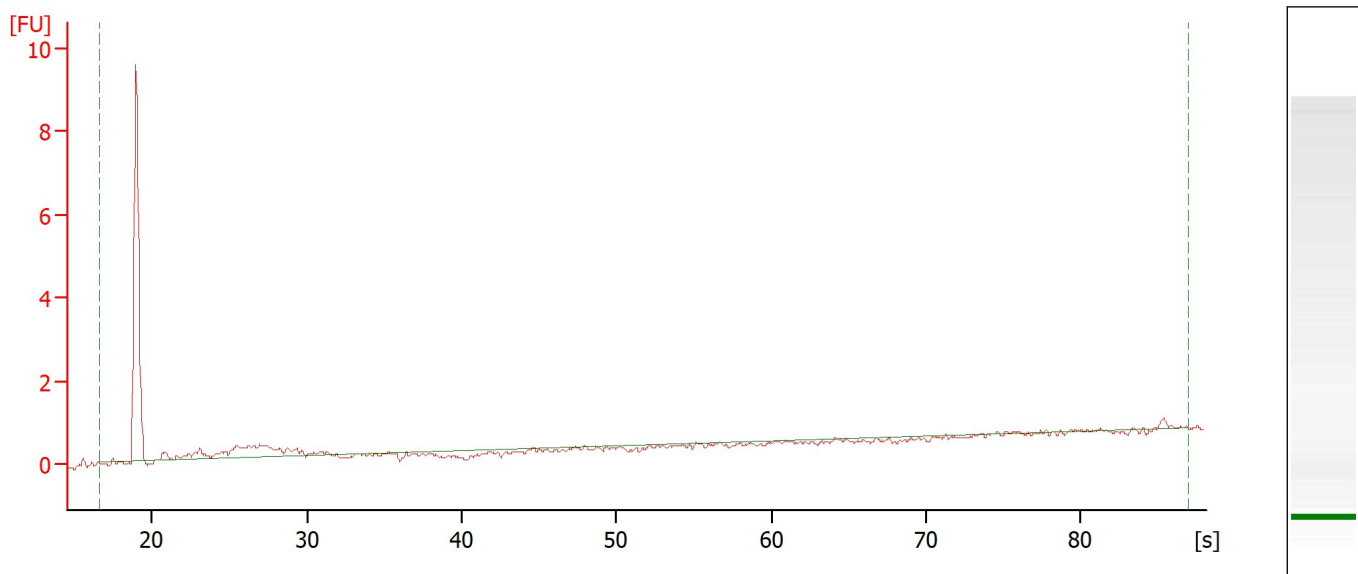
RNA Area:	2.4	rRNA Contamination:	0.0 %
RNA Concentration:	30 pg/ $\mu$ l		

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

S2 ribodepleted RNA



**Overall Results for sample 2 : S2 ribodepleted RNA**

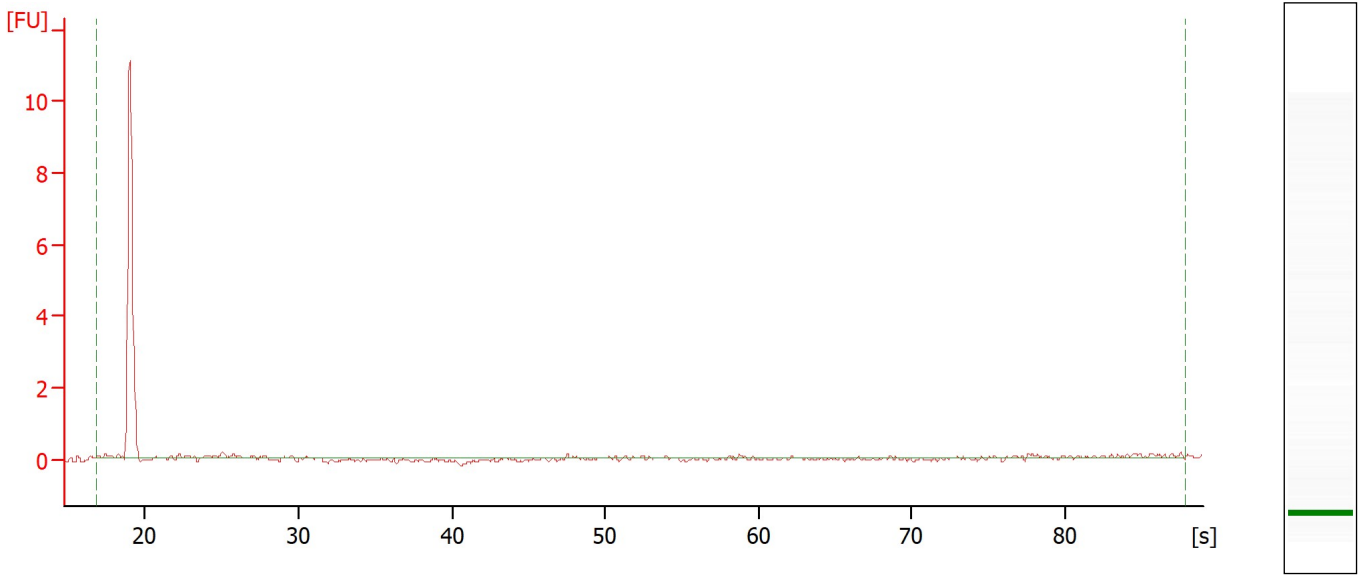
RNA Area: 5.7                      rRNA Contamination: 0.0 %  
RNA Concentration: 72 pg/ $\mu$ l

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

S3 ribodepleted RNA



**Overall Results for sample 3 : S3 ribodepleted RNA**

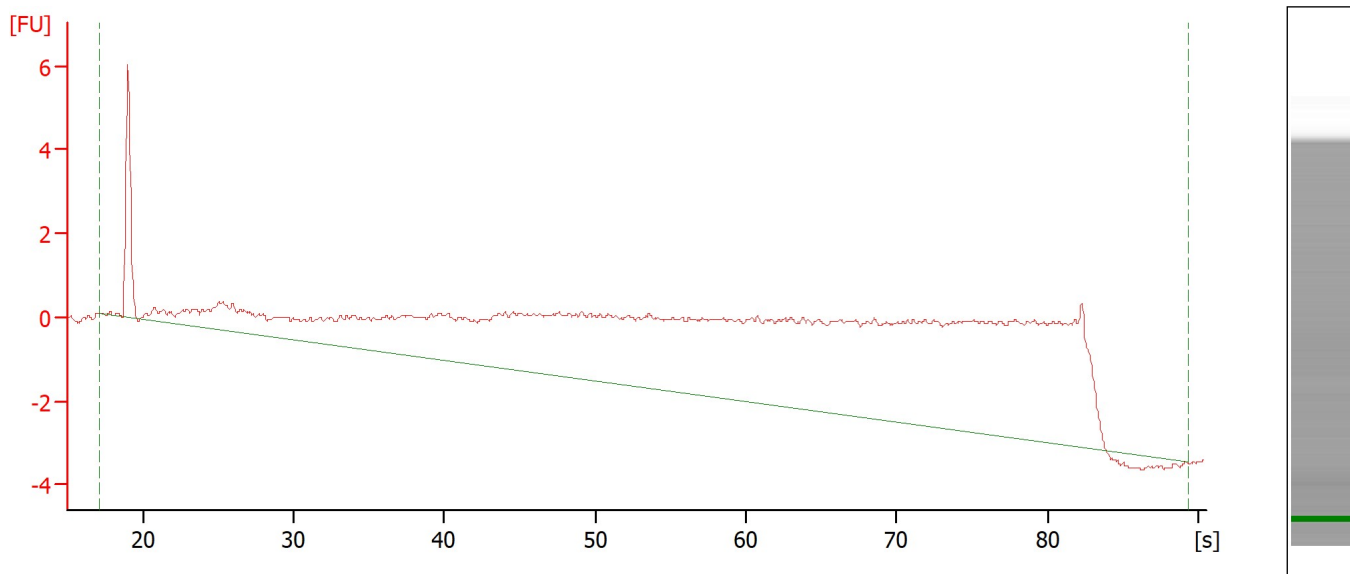
RNA Area:	3.0	rRNA Contamination:	0.0 %
RNA Concentration:	39 pg/ $\mu$ l		

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

S1 June ribodepleted RNA



**Overall Results for sample 4 : S1 June ribodepleted RNA**

RNA Area: 177.9                      rRNA Contamination: 0.0 %  
RNA Concentration: 2,260 pg/μl

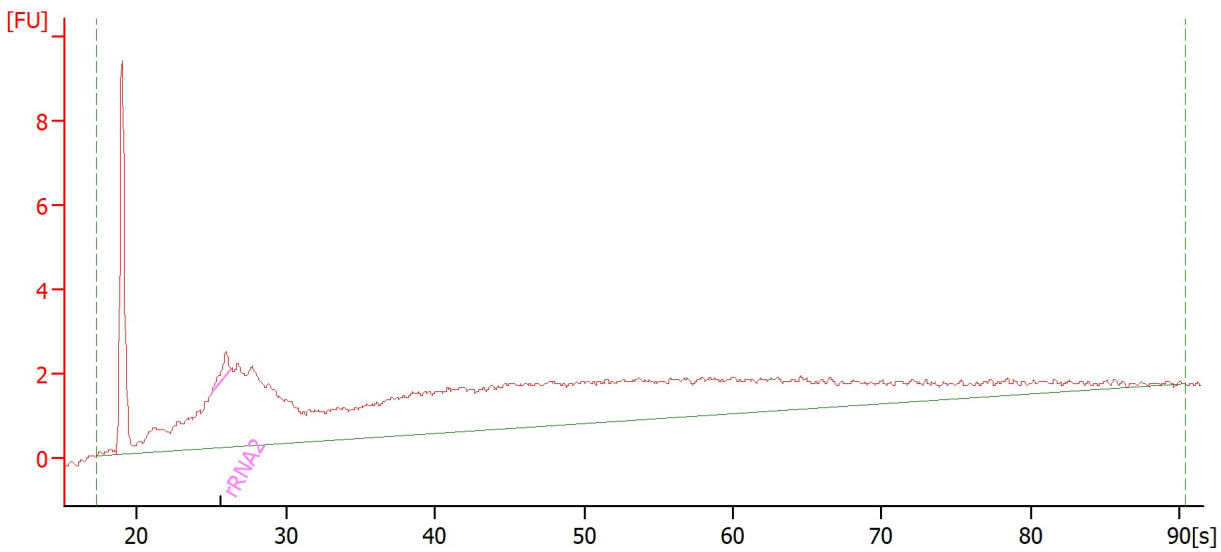


Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

bad - combined 2 different samples?



**Overall Results for sample 5 : bad - combined 2 different samples?**

RNA Area: 125.6                      rRNA Contamination: 0.9 %  
RNA Concentration: 1,595 pg/μl

**Fragment table for sample 5 : bad - combined 2 different samples?**

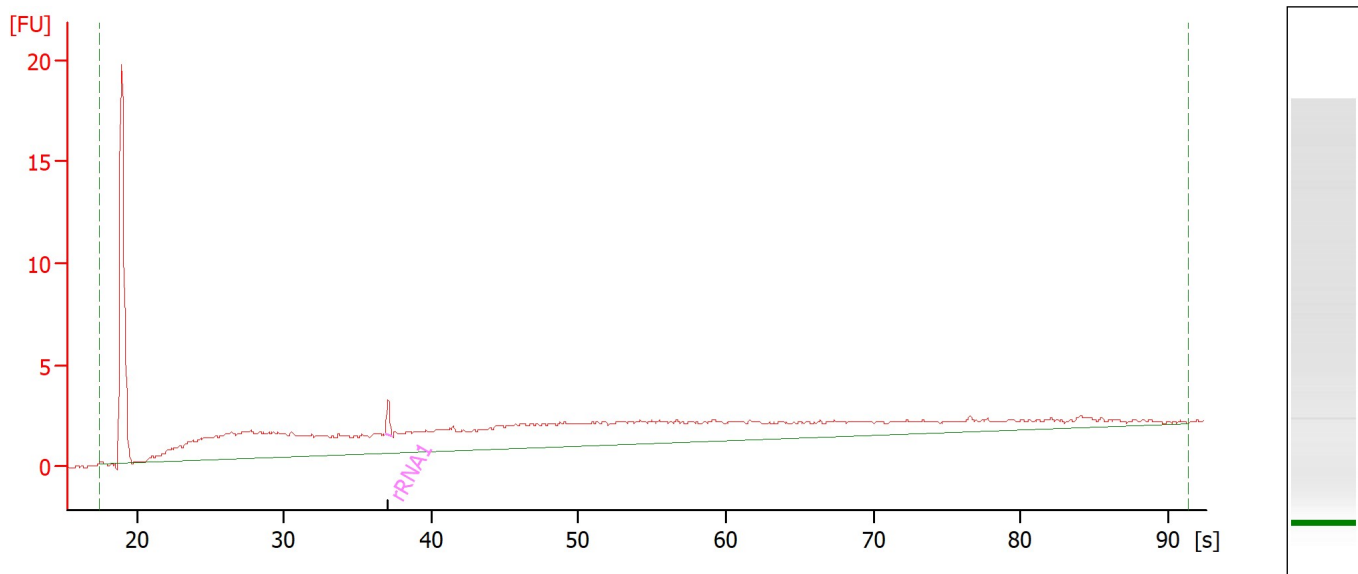
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	25.03	26.32	1.1	0.9

Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
 Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

36 [ NS114 BC DNA ]



**Overall Results for sample 6 : 36**

RNA Area: 133.6                      rRNA Contamination: 0.8 %  
 RNA Concentration: 1,697 pg/μl

**Fragment table for sample 6 : 36**

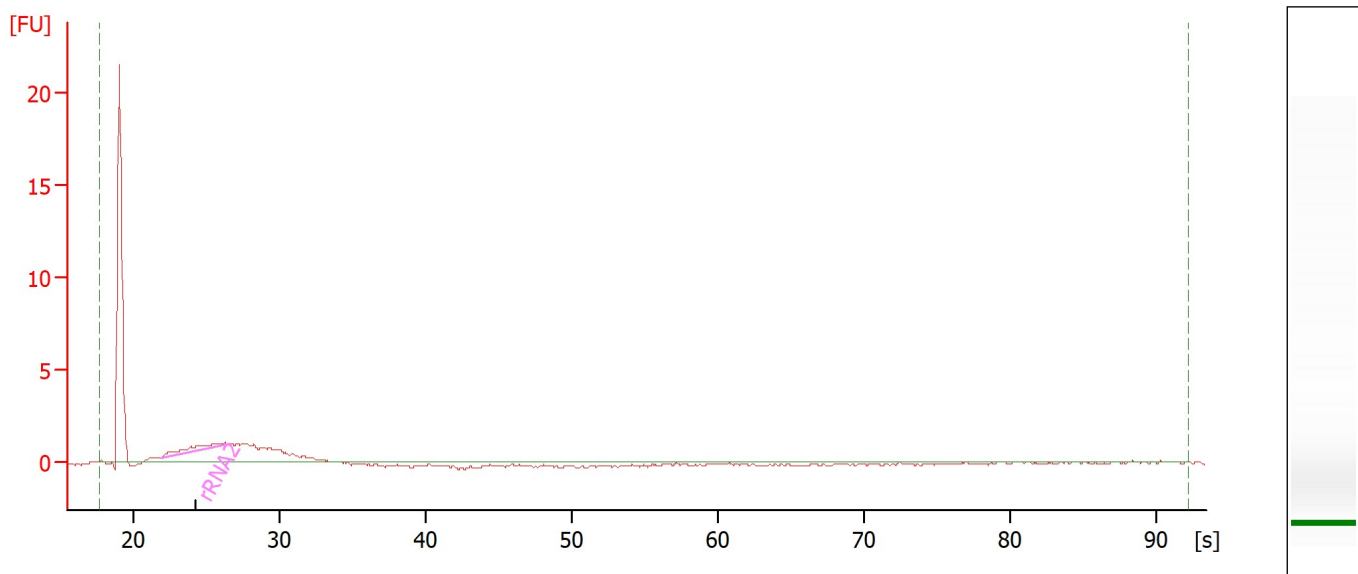
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA1	36.86	37.35	1.1	0.8

Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
 Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

37 [ NS114 BC DNA ]



**Overall Results for sample 7 : 37**

RNA Area: 29.5                      rRNA Contamination: 11.1 %  
 RNA Concentration: 375 pg/μl

**Fragment table for sample 7 : 37**

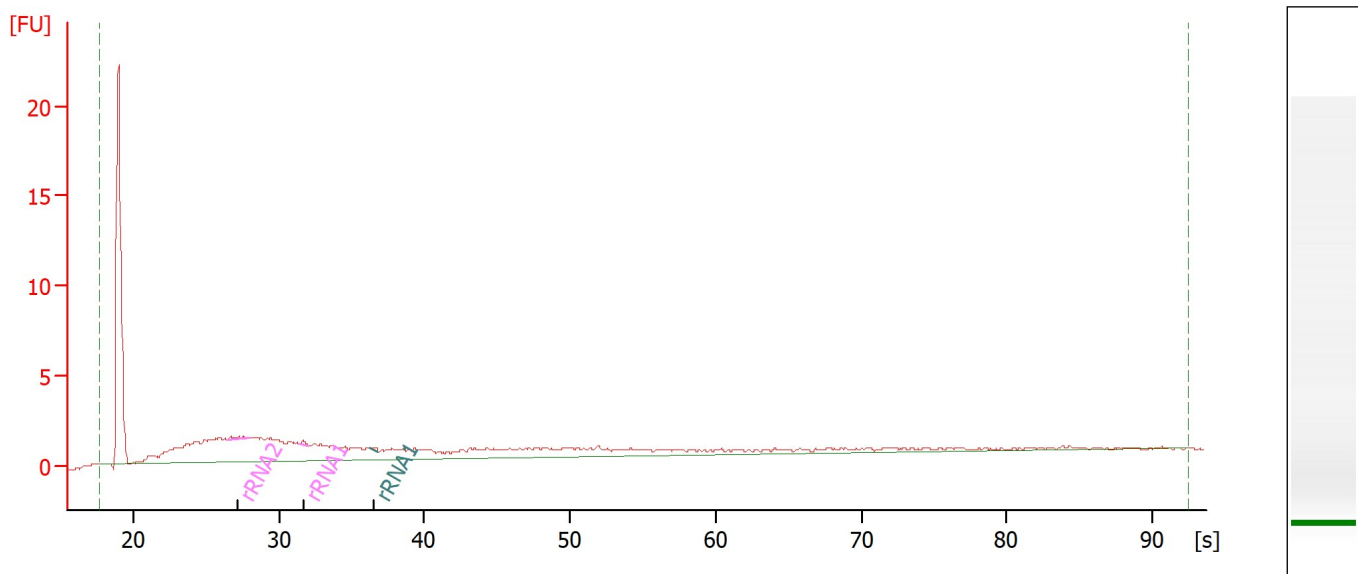
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	21.91	26.58	3.3	11.1

Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
 Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

38 [ NS114 BC DNA ]



**Overall Results for sample 8 : 38**

RNA Area: 79.6                      rRNA Contamination: 1.1 %  
 RNA Concentration: 1,011 pg/μl

**Fragment table for sample 8 : 38**

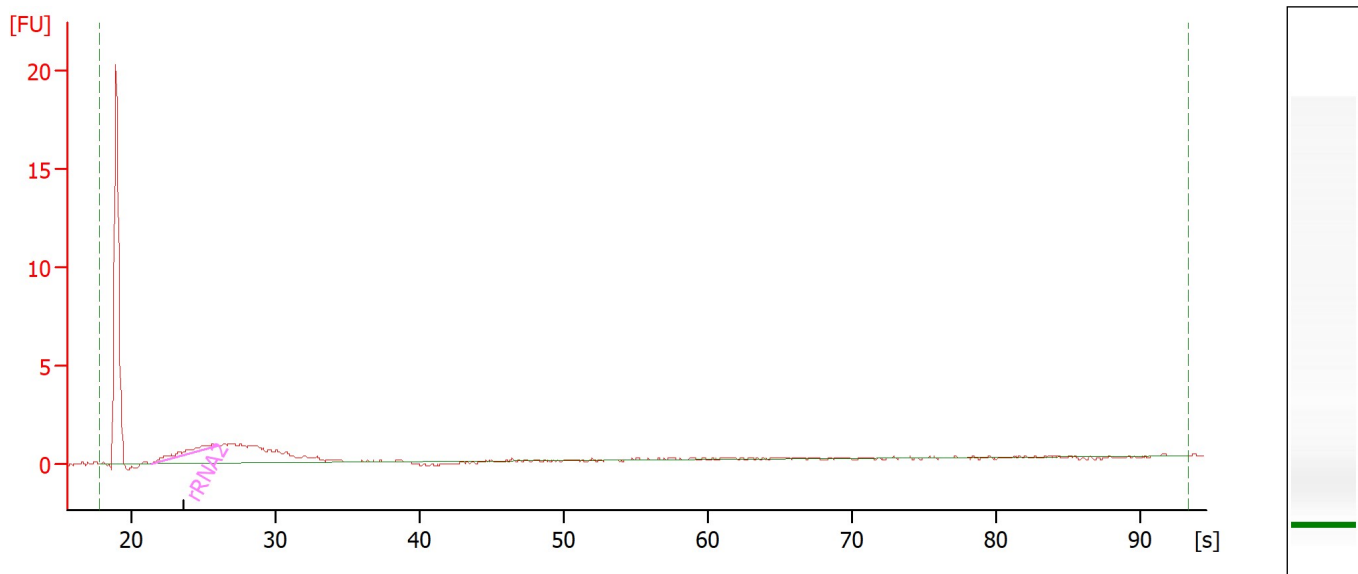
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	26.49	28.03	0.6	0.7
rRNA1	31.39	32.00	0.2	0.2
rRNA1	36.24	36.84	0.1	0.2

Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
 Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

39 [ NS114 BC DNA ]



**Overall Results for sample 9 : 39**

RNA Area: 26.0                      rRNA Contamination: 8.9 %  
 RNA Concentration: 331 pg/μl

**Fragment table for sample 9 : 39**

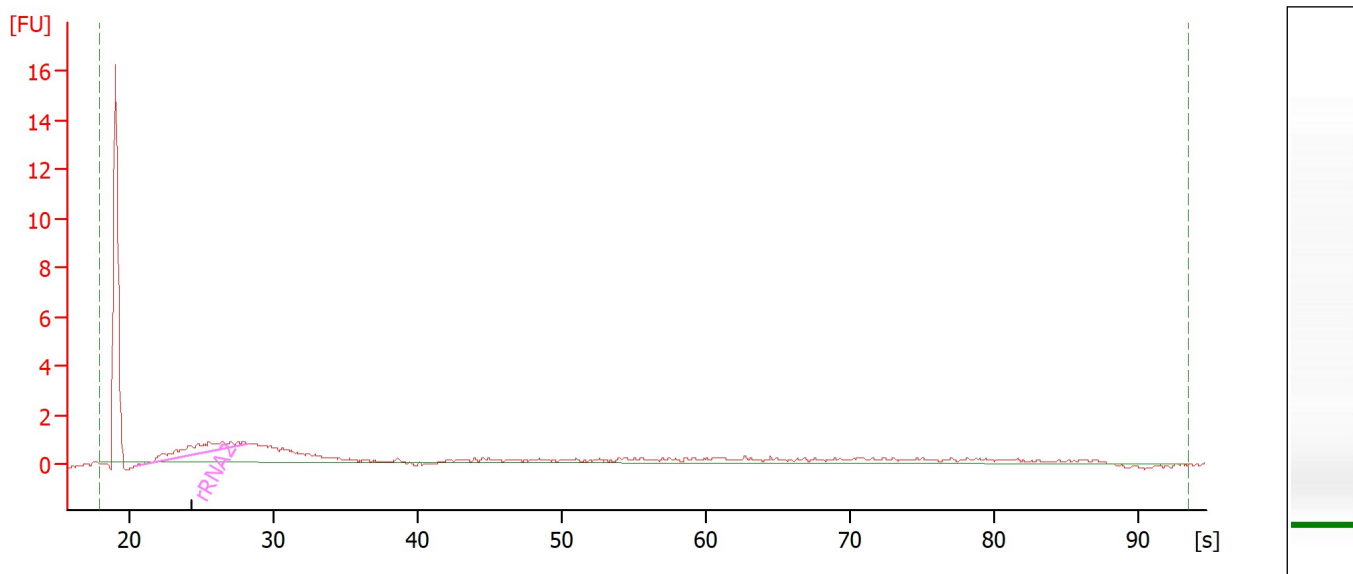
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	21.50	26.00	2.3	8.9

Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
 Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

40 [ NS114 BC DNA ]



**Overall Results for sample 10 : 40**

RNA Area: 39.6                      rRNA Contamination: 19.1 %  
 RNA Concentration: 504 pg/μl

**Fragment table for sample 10 : 40**

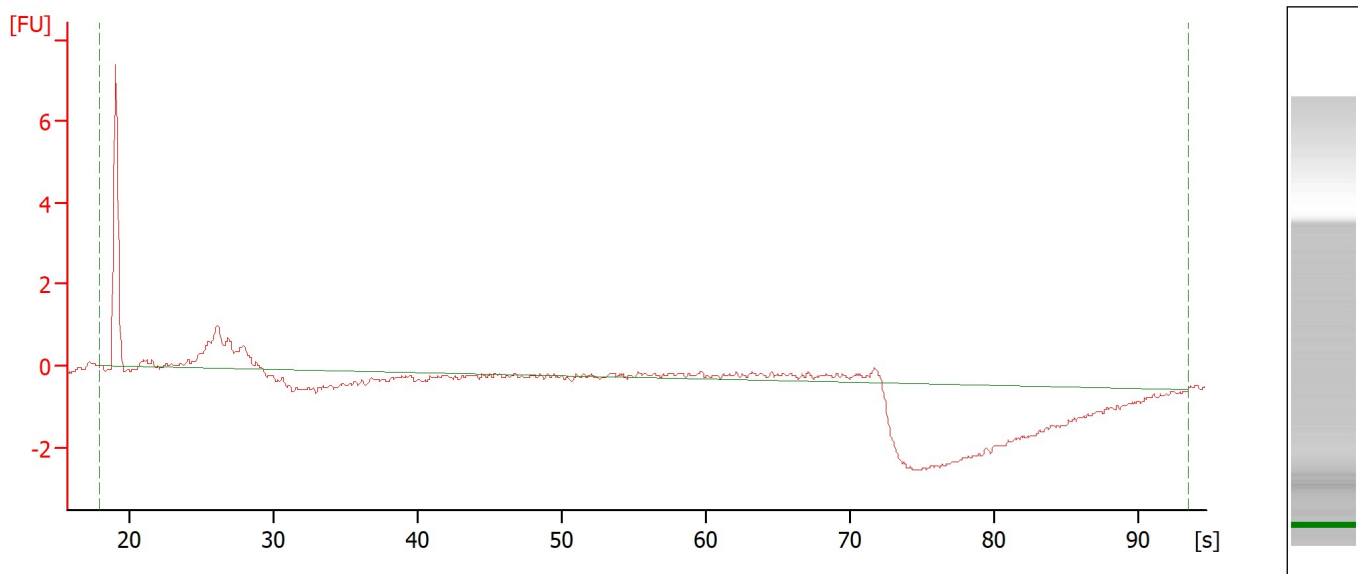
Name	Start Time [s]	End Time [s]	Area	% of total Area
rRNA2	20.39	28.25	7.6	19.1

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

**Electropherogram Summary Continued ...**

S2 June ribodepleted RNA



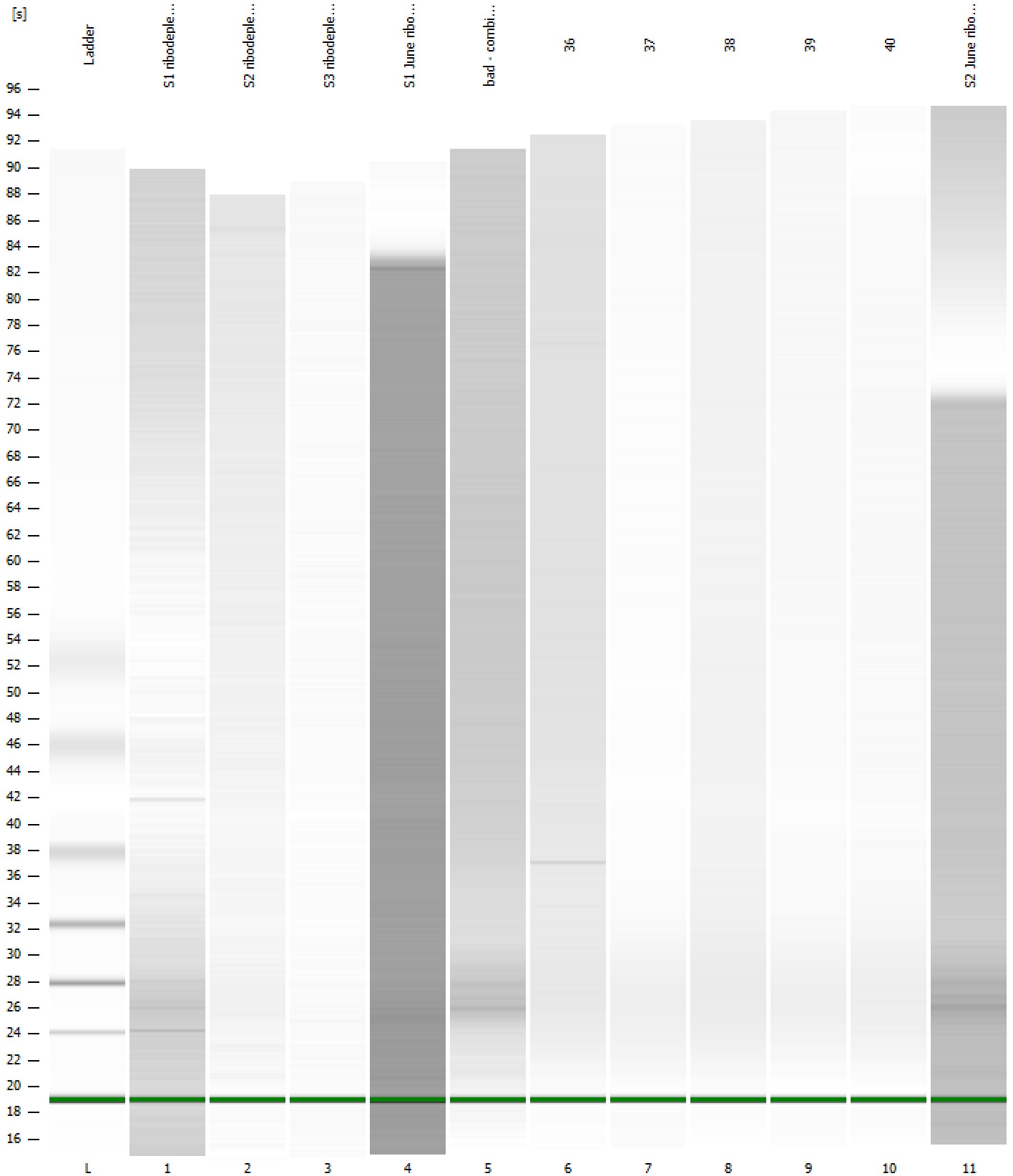
**Overall Results for sample 11 : S2 June ribodepleted RNA**

RNA Area: 13.1                      rRNA Contamination: 0.0 %  
RNA Concentration: 167 pg/μl

Assay Class: mRNA Pico  
Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
Modified: 6/17/2020 6:06:37 PM

**Gel Image**





Assay Class: mRNA Pico  
 Data Path: Z:\XADs\2020-06-17\Bioanalyzer1\_mRNA Pico\_2020-06-17\_001.xad

Created: 6/17/2020 5:38:04 PM  
 Modified: 6/17/2020 6:06:37 PM

**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		6/17/2020 6:03:59 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Run started on port 1 (File: Z:\XADs\2020-06-17\Bioanalyze r1_mRNA Pico_2020-06-17_001.xad)		Instrument	Run		6/17/2020 5:38:10 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Product Number : G2938C		Instrument	Run		6/17/2020 5:38:10 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Name :		Instrument	Run		6/17/2020 5:38:10 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Vendor : Agilent Technologies		Instrument	Run		6/17/2020 5:38:10 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Serial# : DE34903152		Instrument	Run		6/17/2020 5:38:10 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Firmware : C.01.069		Instrument	Run		6/17/2020 5:38:10 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB
Cartridge : Electrode		Instrument	Run		6/17/2020 5:38:10 PM	(GMT --07:00) Pacific Standard Time	sbsuser	DESKTOP-4UNV VOB