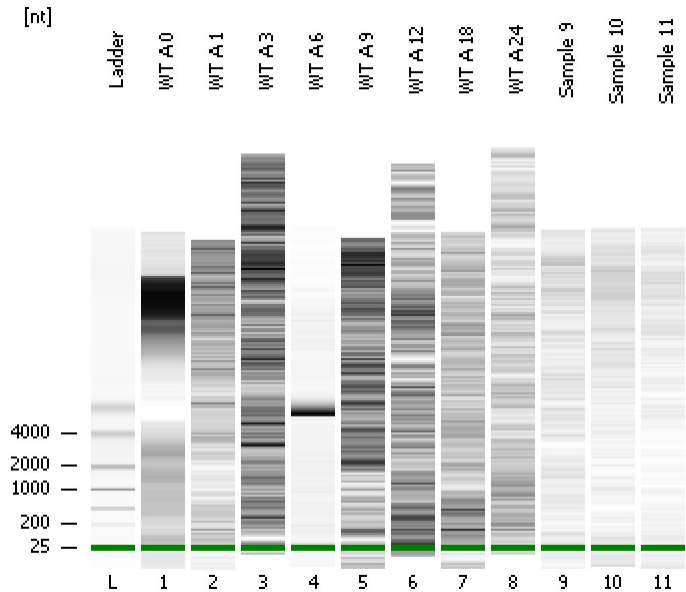


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

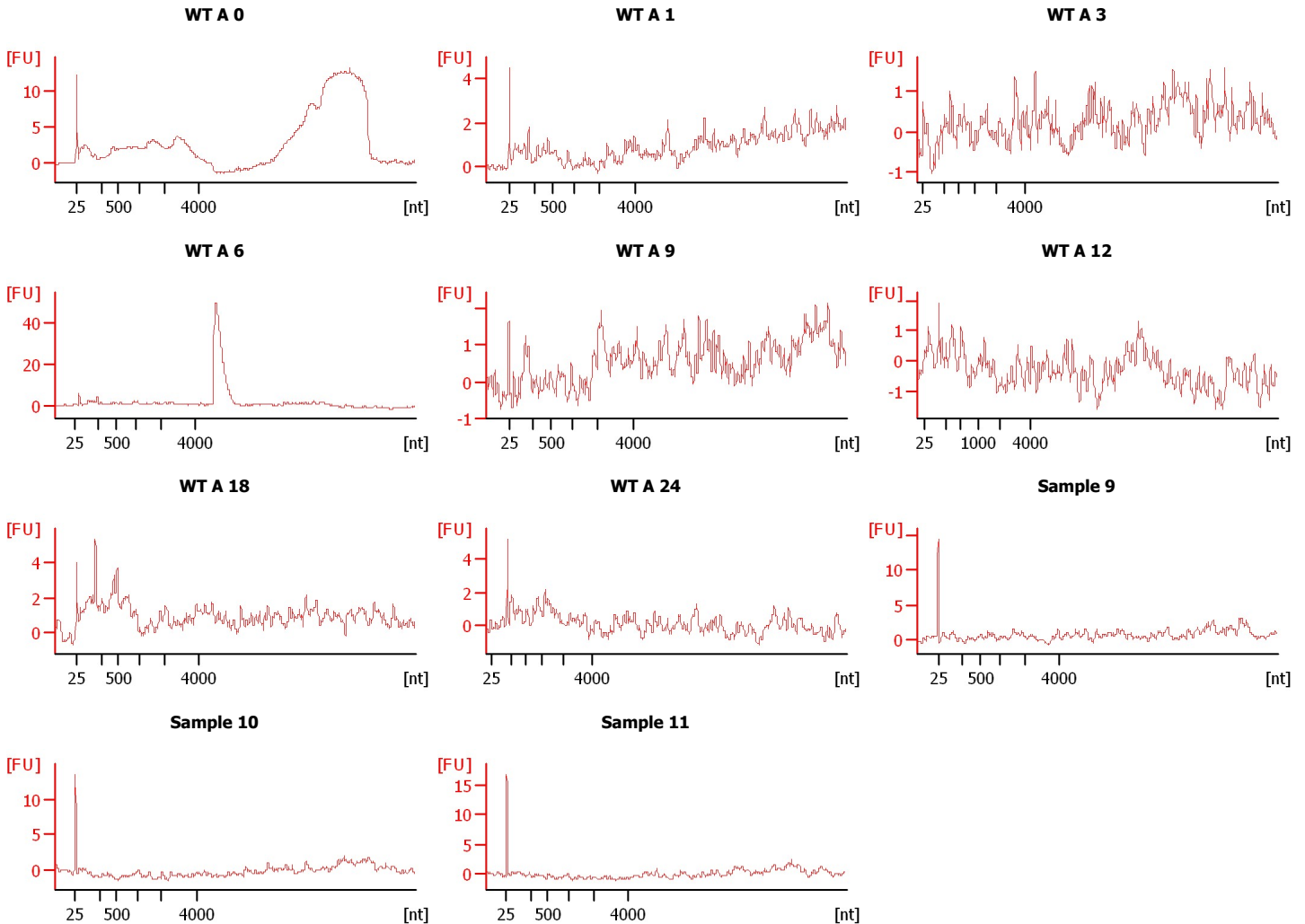
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT A 0		✓		
WT A 1		✓		
WT A 3		✓		
WT A 6		✓		
WT A 9		✓		
WT A 12		✓		
WT A 18		✓		
WT A 24		✓		
Sample 9		✓		
Sample 10		✓		
Sample 11		✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

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/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] : 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

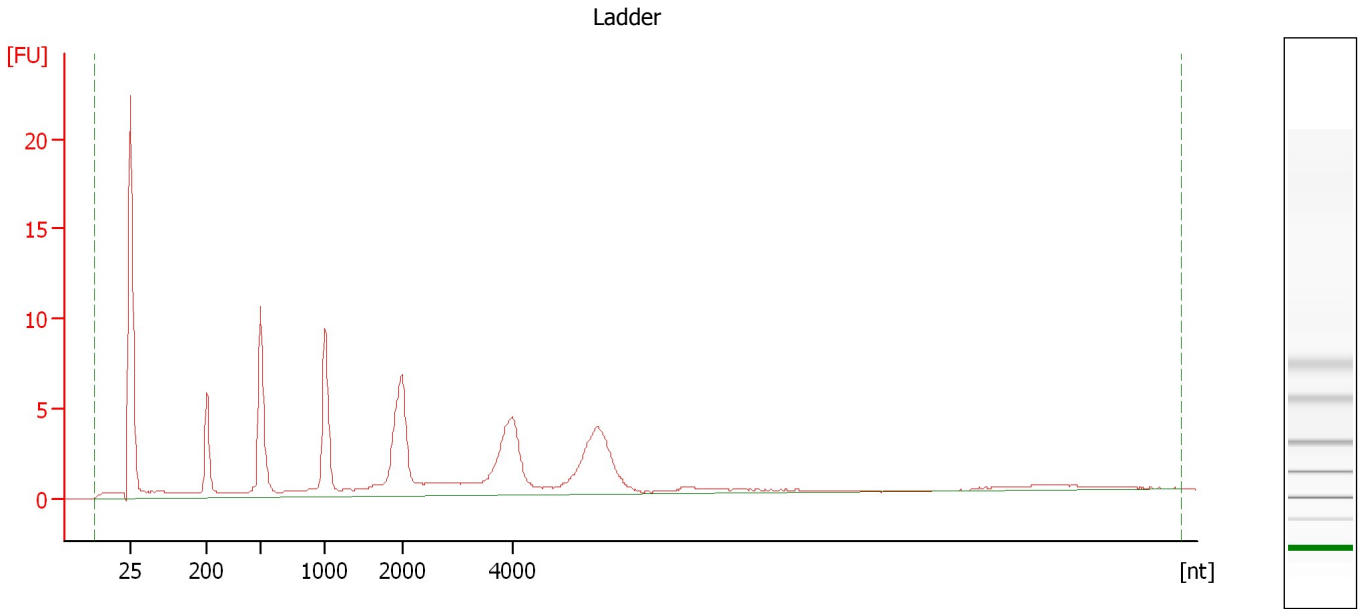
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electropherogram Summary



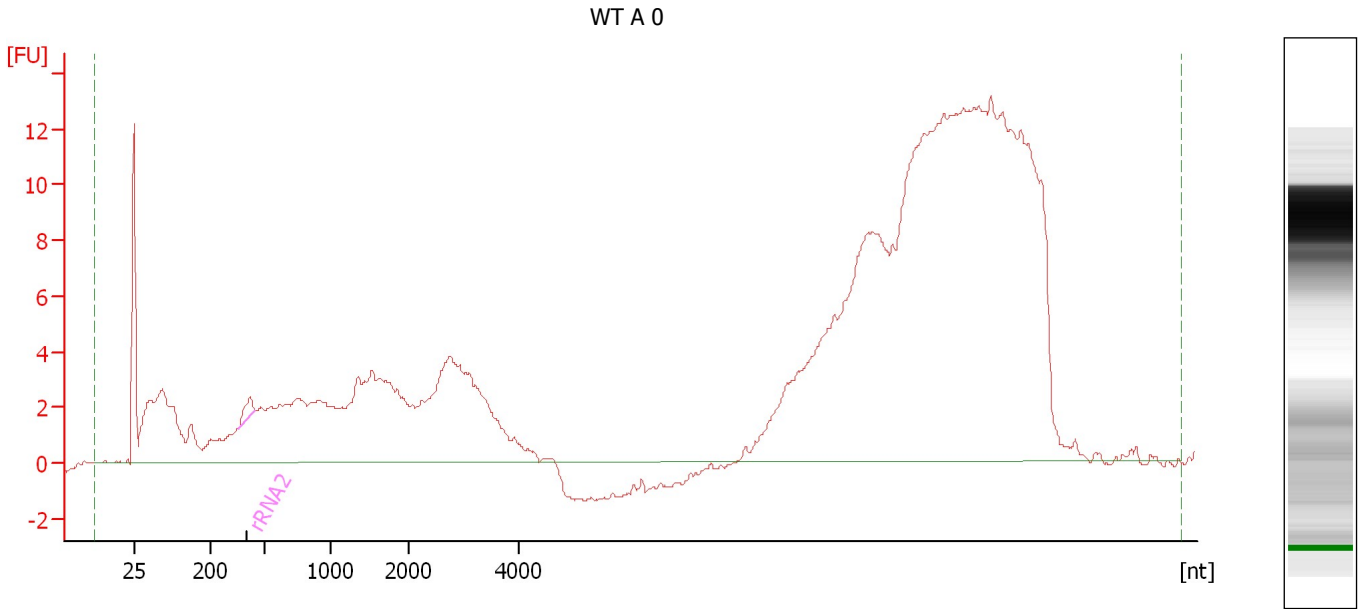
Overall Results for Ladder

RNA Area: 122.9 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
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Electropherogram Summary Continued ...



Overall Results for sample 1 : WT A 0

RNA Area: 390.7 rRNA Contamination: 0.4 %
RNA Concentration: 3,180 pg/μl

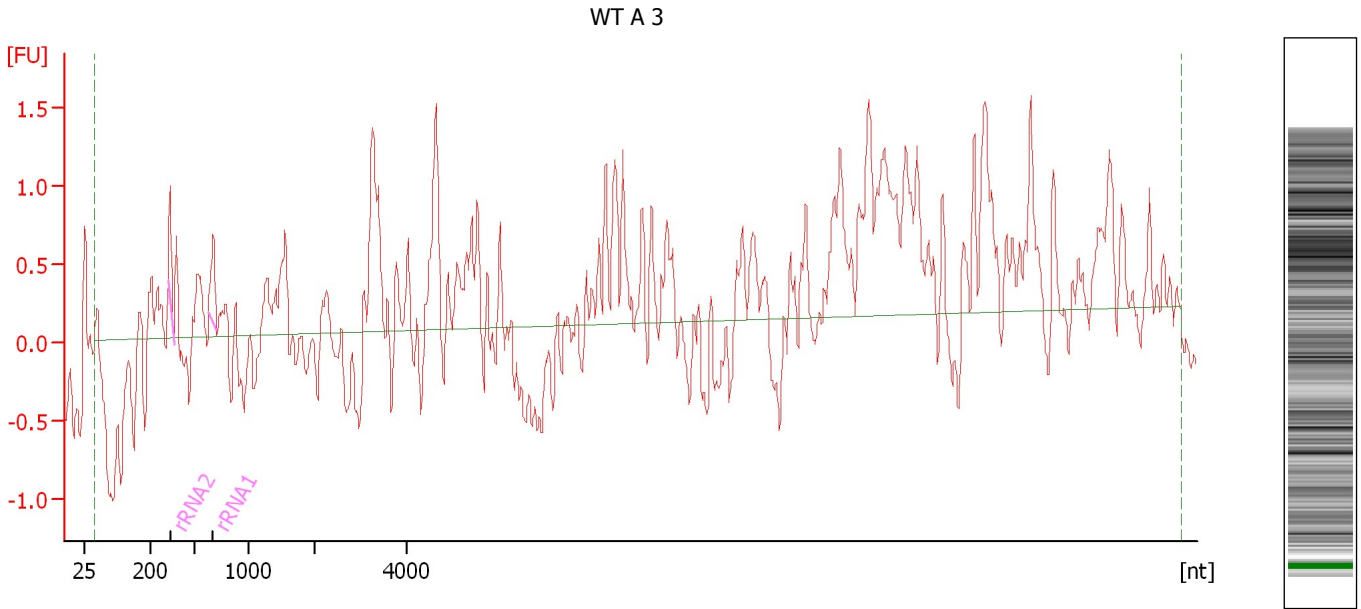
Fragment table for sample 1 : WT A 0

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	354	443	1.6	0.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WT A 3

RNA Area: 33.6 rRNA Contamination: 4.1 %
RNA Concentration: 274 pg/μl

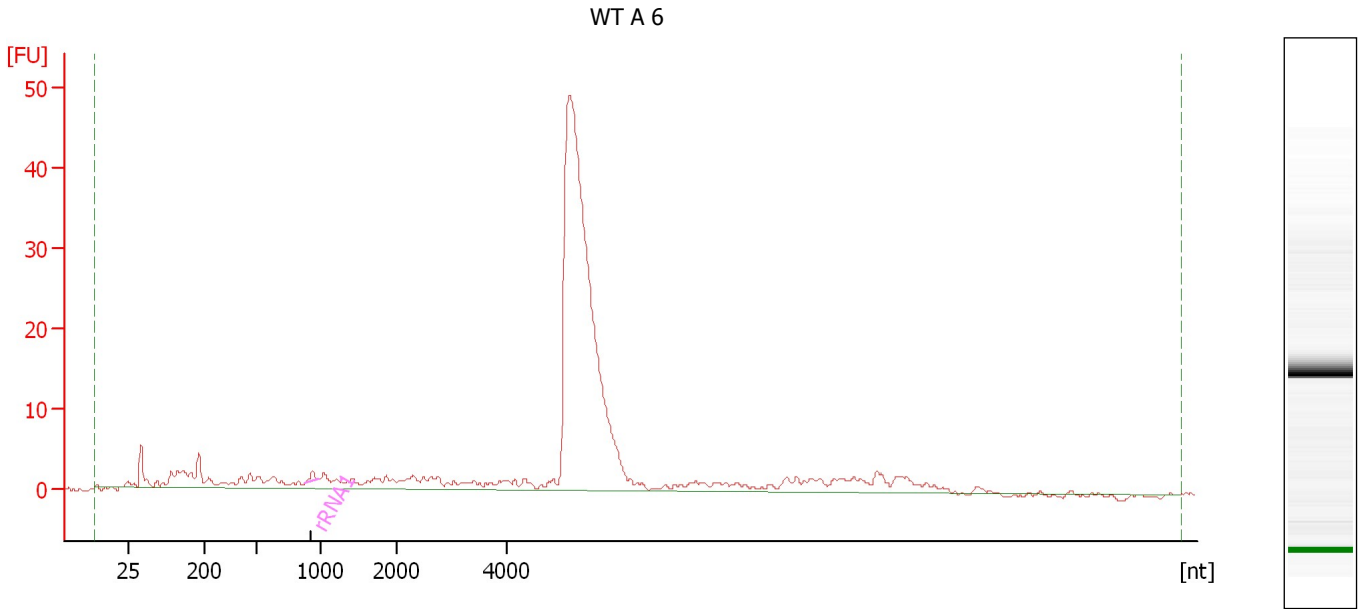
Fragment table for sample 3 : WT A 3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	322	359	0.7	2.0
rRNA1	628	701	0.7	2.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
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Electropherogram Summary Continued ...



Overall Results for sample 4 : WT A 6

RNA Area: 334.1 rRNA Contamination: 0.4 %
RNA Concentration: 2,719 pg/μl

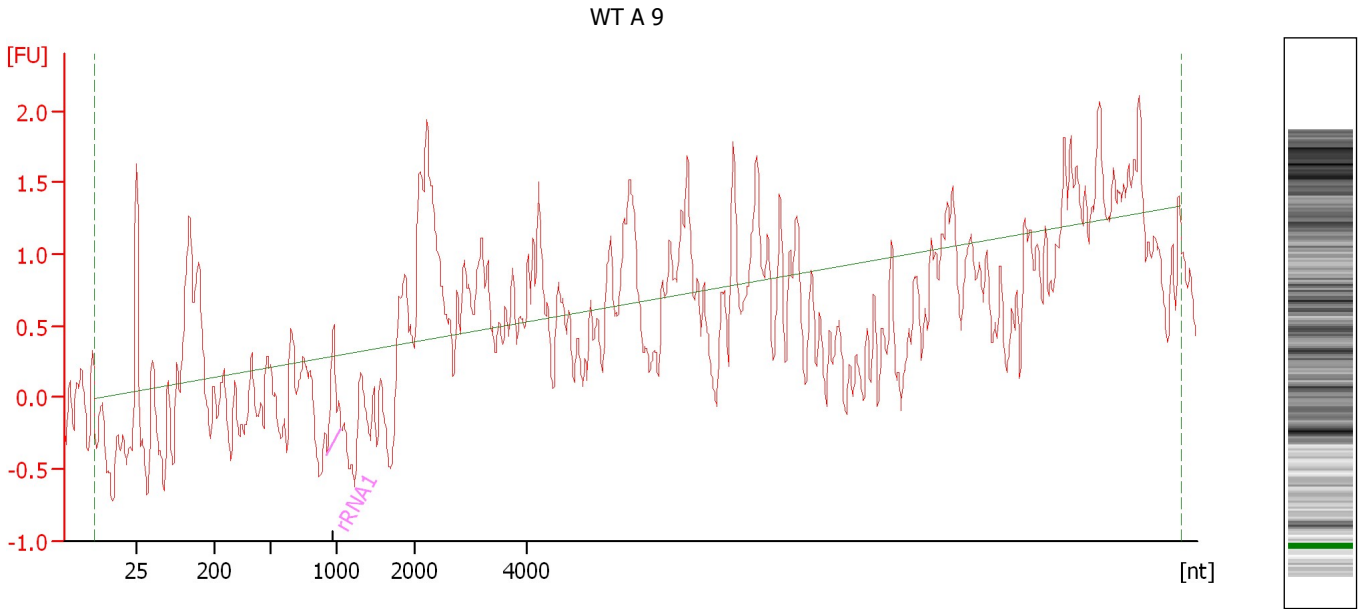
Fragment table for sample 4 : WT A 6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	875	981	1.3	0.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
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Electropherogram Summary Continued ...



Overall Results for sample 5 : WT A 9

RNA Area: 20.2 rRNA Contamination: 4.9 %
RNA Concentration: 165 µg/µl

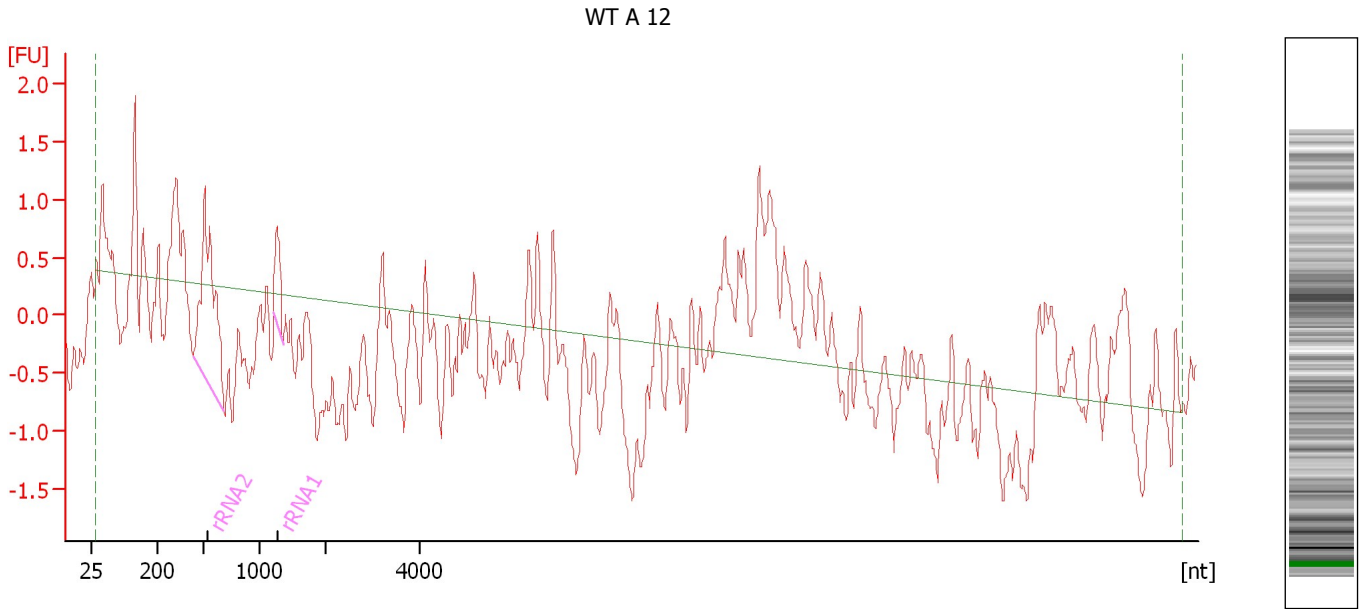
Fragment table for sample 5 : WT A 9

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	937	1,067	1.0	4.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : WT A 12

RNA Area: 23.5 rRNA Contamination: 31.6 %
RNA Concentration: 191 pg/μl

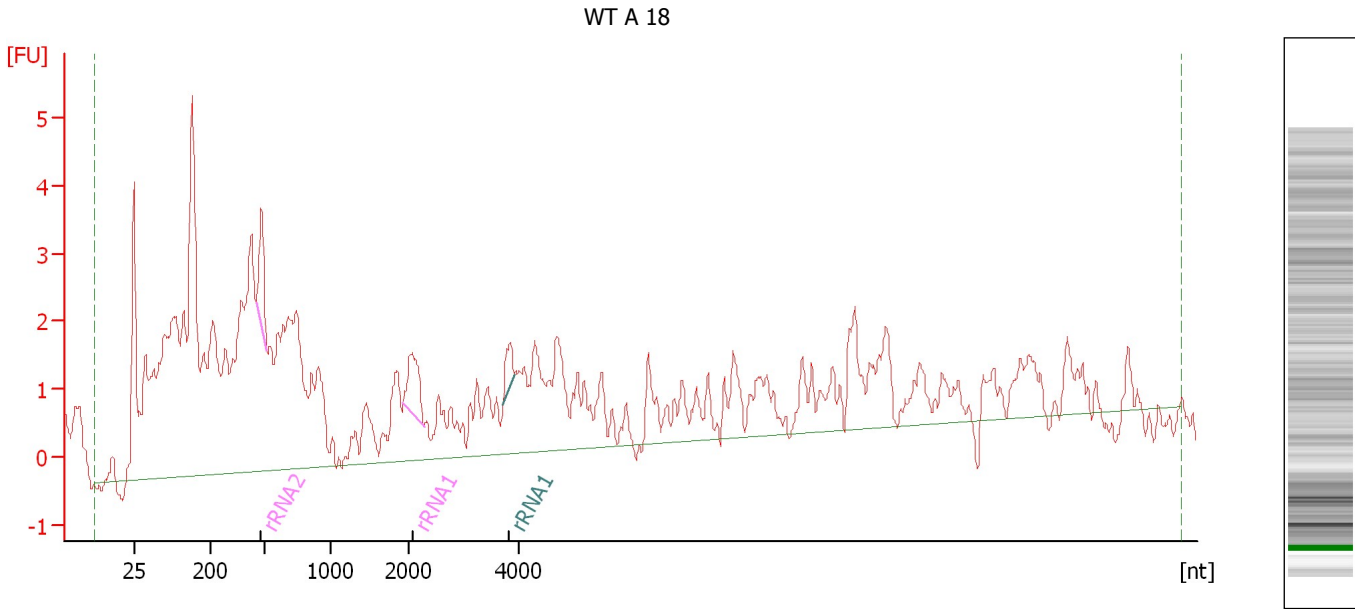
Fragment table for sample 6 : WT A 12

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	434	681	6.3	26.7
rRNA1	1,211	1,356	1.1	4.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WT A 18

RNA Area: 161.0 rRNA Contamination: 3.0 %
RNA Concentration: 1,310 pg/μl

Fragment table for sample 7 : WT A 18

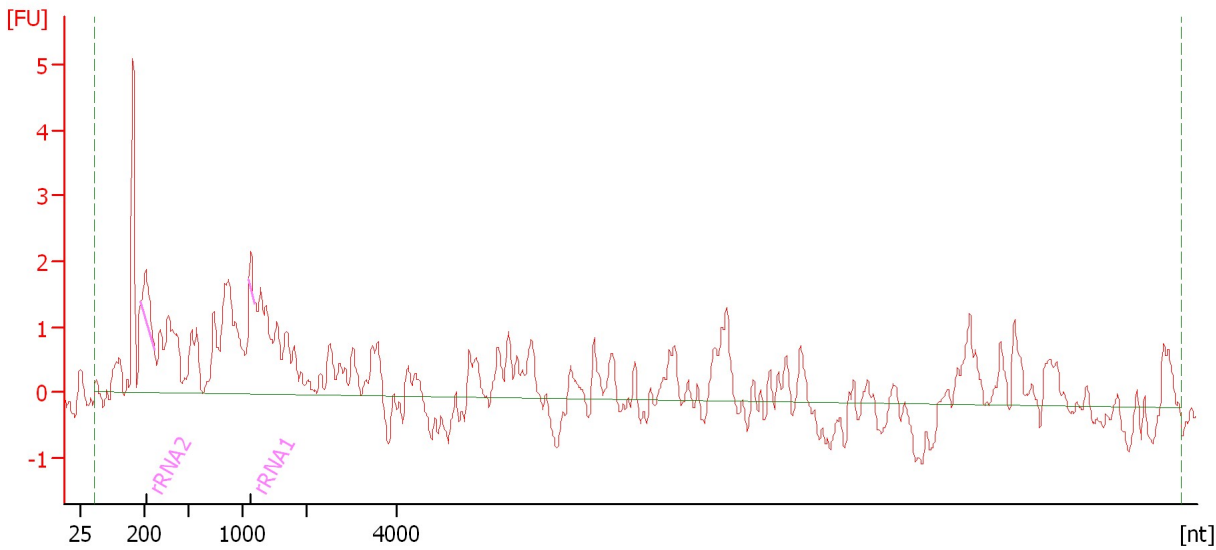
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	452	513	2.2	1.3
rRNA1	1,940	2,290	2.0	1.2
rRNA1	3,709	3,910	0.7	0.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electropherogram Summary Continued ...

WT A 24



Overall Results for sample 8 : WT A 24

RNA Area: 73.1 rRNA Contamination: 2.6 %
RNA Concentration: 595 pg/μl

Fragment table for sample 8 : WT A 24

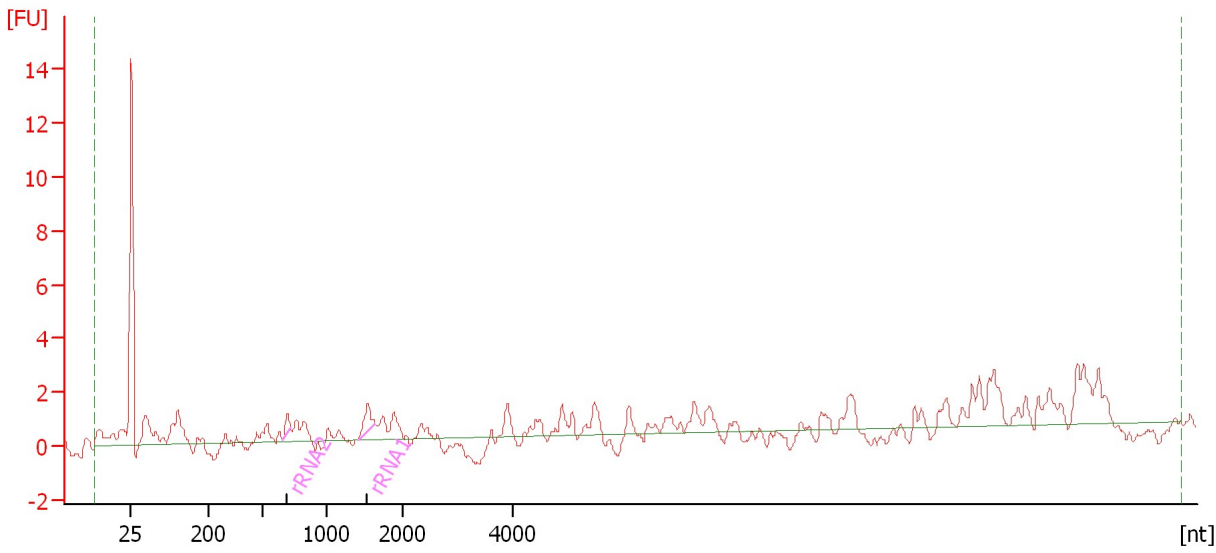
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	189	266	1.6	2.1
rRNA1	1,107	1,182	0.3	0.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

RNA Area: 51.9 rRNA Contamination: 4.1 %
RNA Concentration: 422 pg/μl

Fragment table for sample 9 : Sample 9

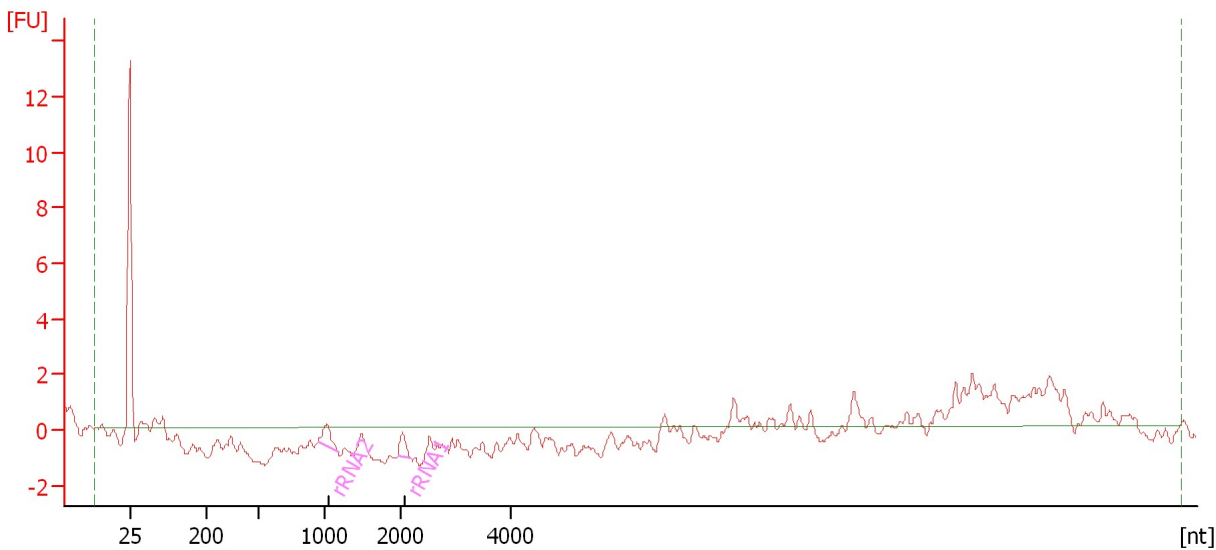
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	663	725	0.7	1.3
rRNA1	1,418	1,637	1.5	2.8

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

RNA Area: 20.7 rRNA Contamination: 12.8 %
RNA Concentration: 168 pg/μl

Fragment table for sample 10 : Sample 10

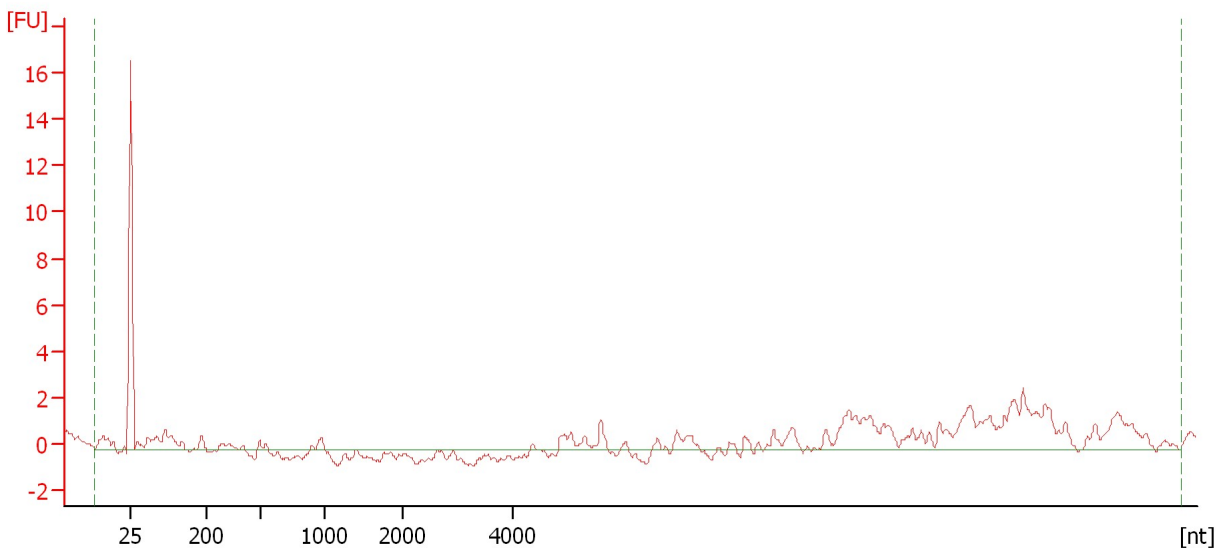
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	954	1,184	1.5	7.4
rRNA1	1,967	2,202	1.1	5.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

RNA Area:	50.0	rRNA Contamination:	0.0 %
RNA Concentration:	407 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-08-30\2017-08-30_001.xad

Created: 8/30/2017 9:30:36 AM
Modified: 8/30/2017 9:56:30 AM

Gel Image

