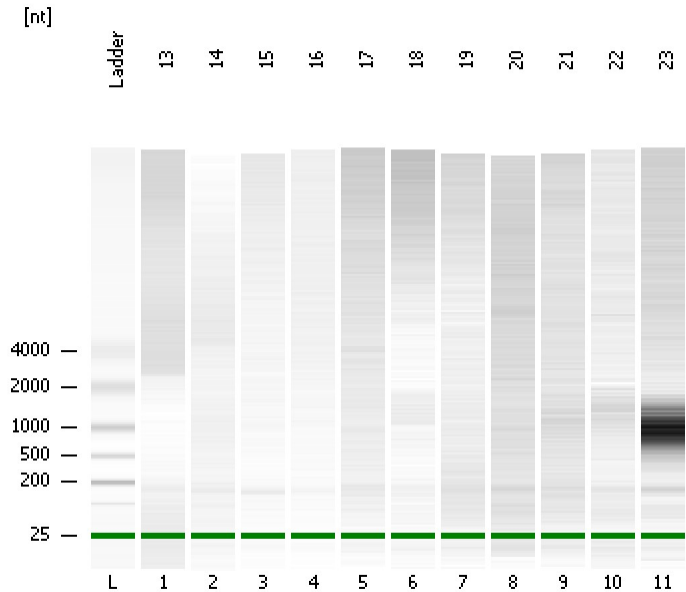


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electrophoresis File Run Summary



Instrument Information:

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

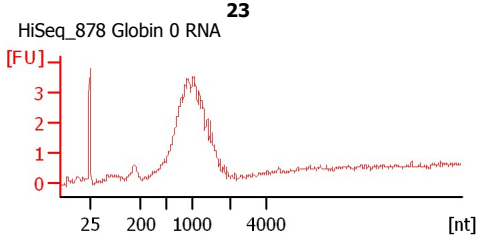
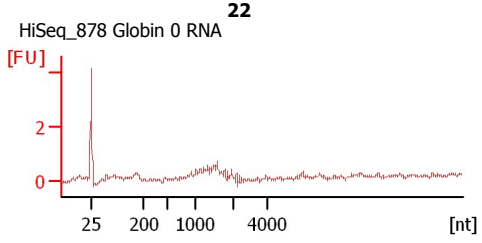
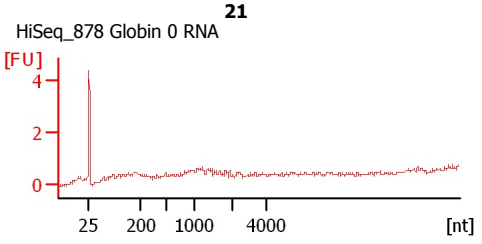
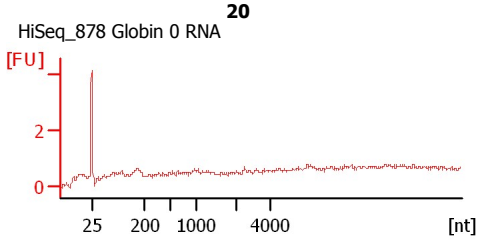
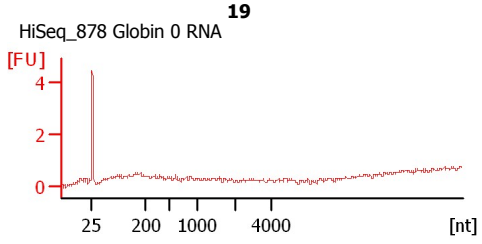
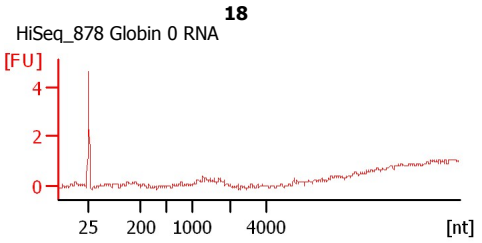
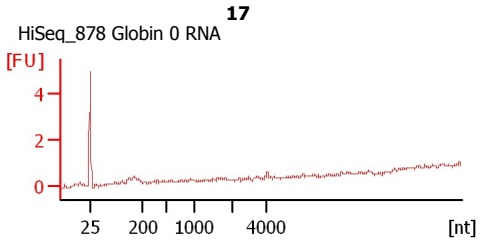
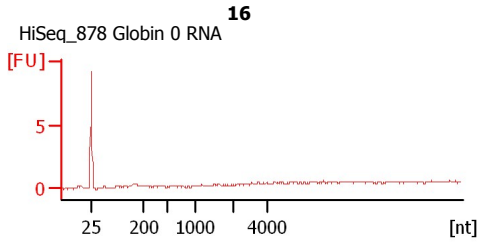
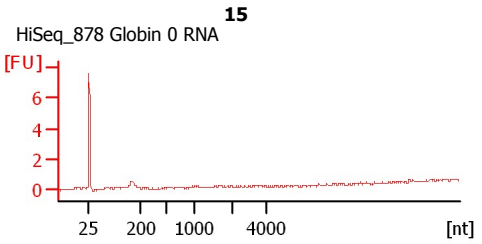
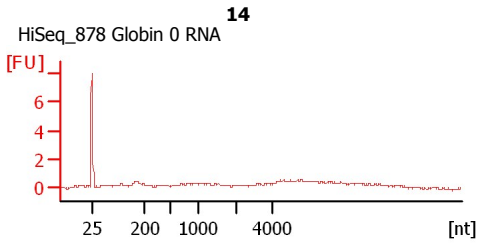
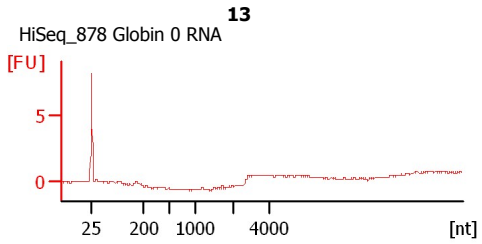
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\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\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
13	HiSeq_878 Globin 0 RNA	✓		
14	HiSeq_878 Globin 0 RNA	✓		
15	HiSeq_878 Globin 0 RNA	✓		
16	HiSeq_878 Globin 0 RNA	✓		
17	HiSeq_878 Globin 0 RNA	✓		
18	HiSeq_878 Globin 0 RNA	✓		
19	HiSeq_878 Globin 0 RNA	✓		
20	HiSeq_878 Globin 0 RNA	✓		
21	HiSeq_878 Globin 0 RNA	✓		
22	HiSeq_878 Globin 0 RNA	✓		
23	HiSeq_878 Globin 0 RNA	✓		
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 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/ μ l] : 1000
Lower Marker Concentration [pg/ μ l] : 0
Upper Marker Concentration [pg/ 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] : 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

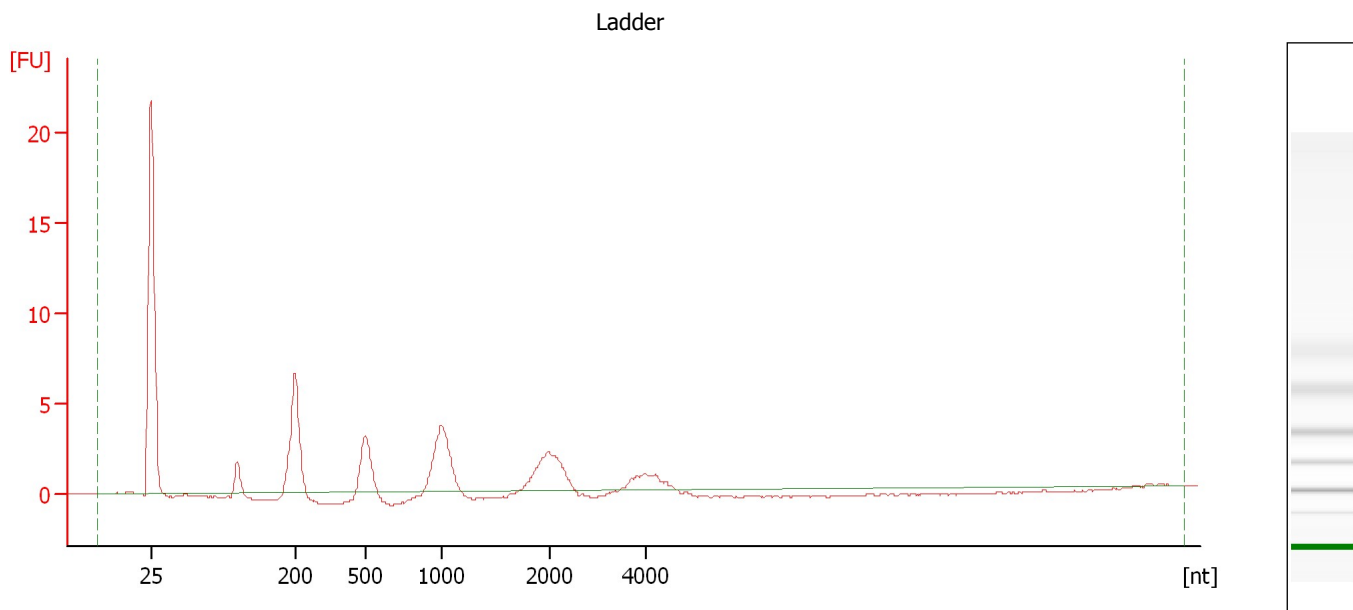
Ladder

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\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary



Overall Results for Ladder

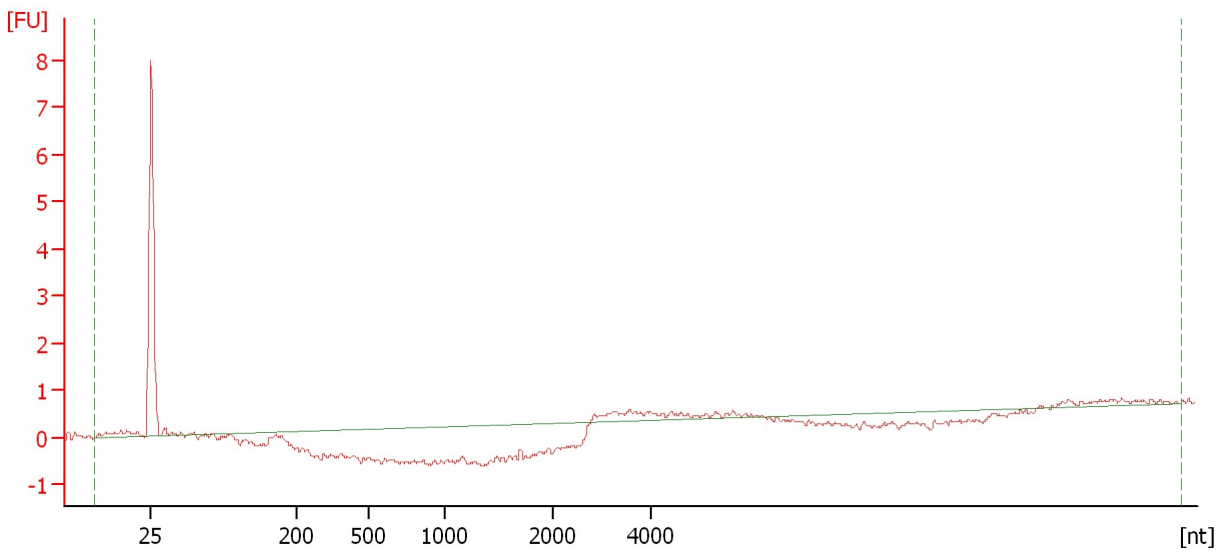
RNA Area: 48.0 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

13 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 1 : 13

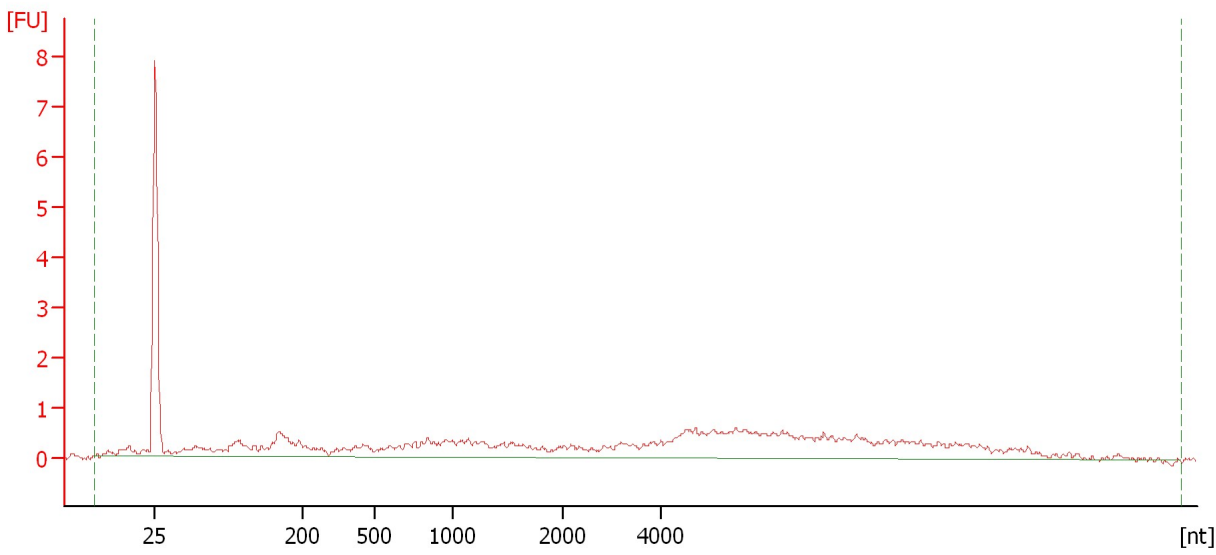
RNA Area: 5.0 rRNA Contamination: 0.0 %
RNA Concentration: 104 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

14 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 2 : 14

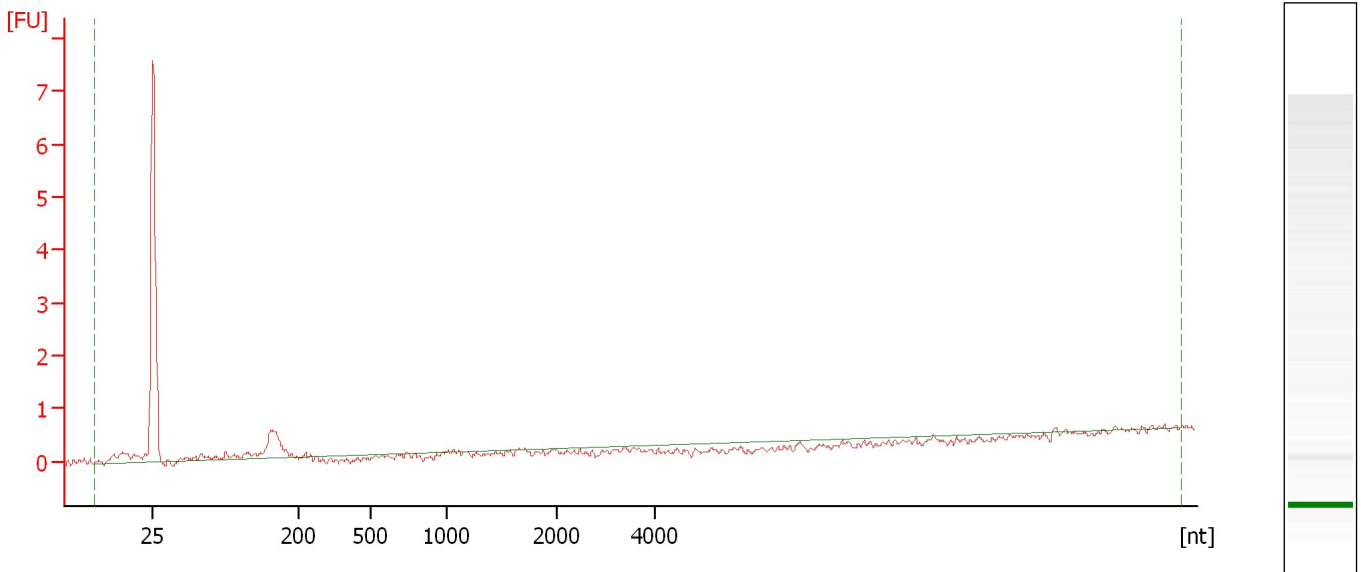
RNA Area: 33.4 rRNA Contamination: 0.0 %
RNA Concentration: 695 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

15 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 3 : 15

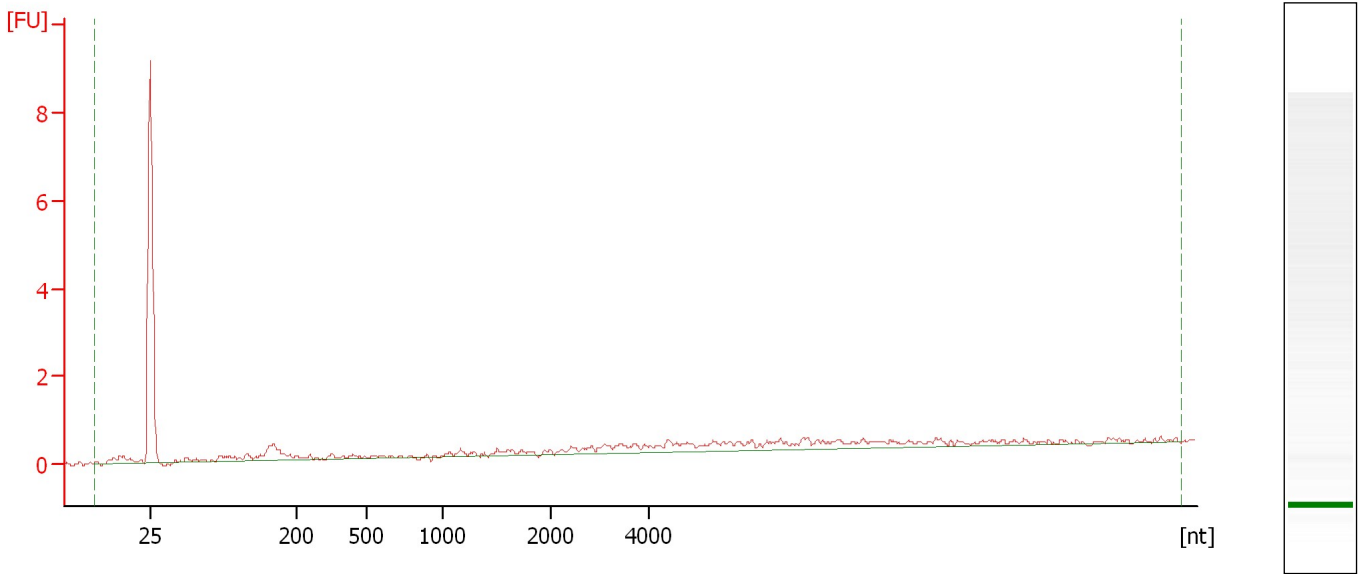
RNA Area:	5.2	rRNA Contamination:	0.0 %
RNA Concentration:	108 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

16 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 4 : 16

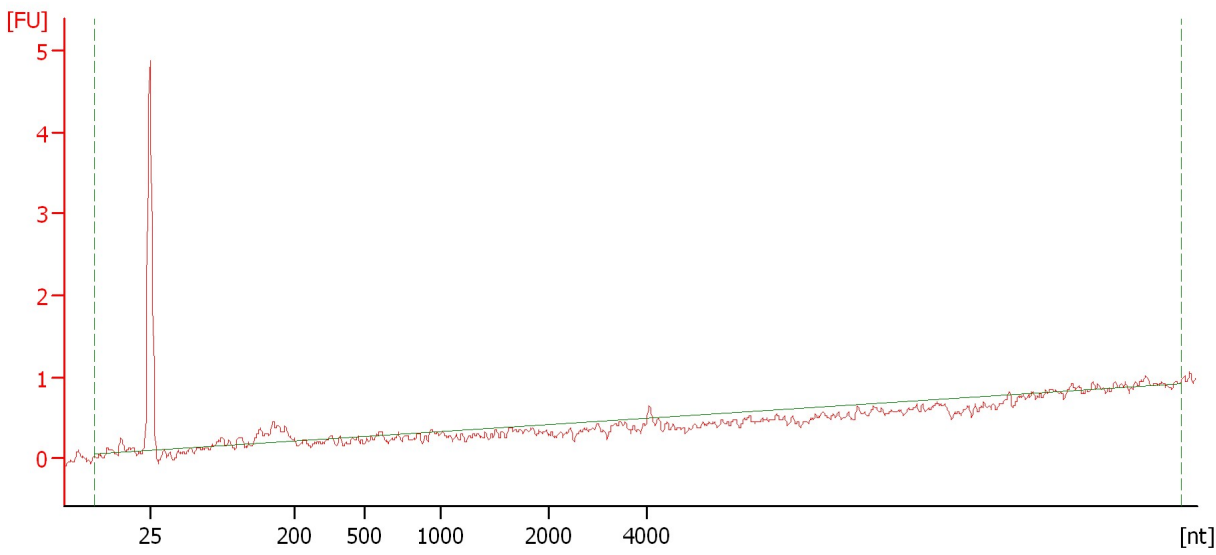
RNA Area:	13.9	rRNA Contamination:	0.0 %
RNA Concentration:	289 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

17 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 5 : 17

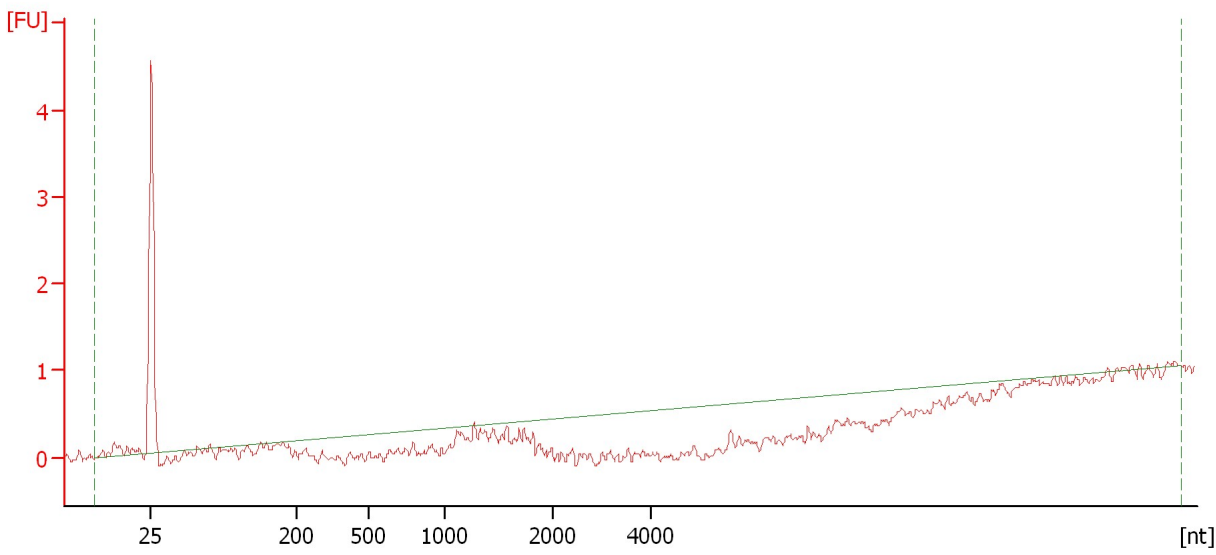
RNA Area: 2.3 rRNA Contamination: 0.0 %
RNA Concentration: 48 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

18 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 6 : 18

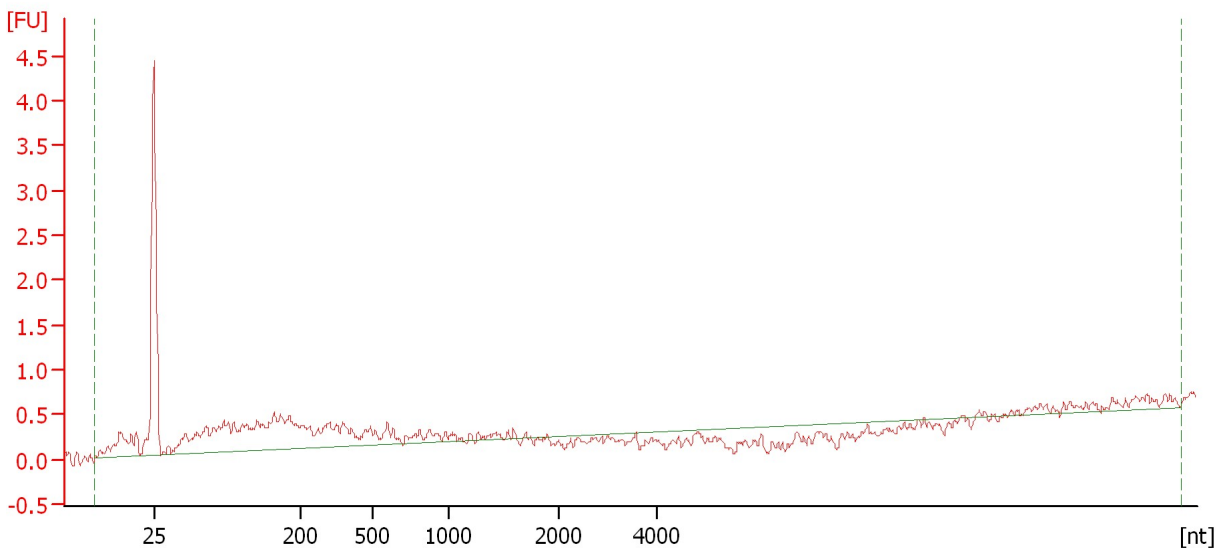
RNA Area: 1.2 rRNA Contamination: 0.0 %
RNA Concentration: 24 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

19 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 7 : 19

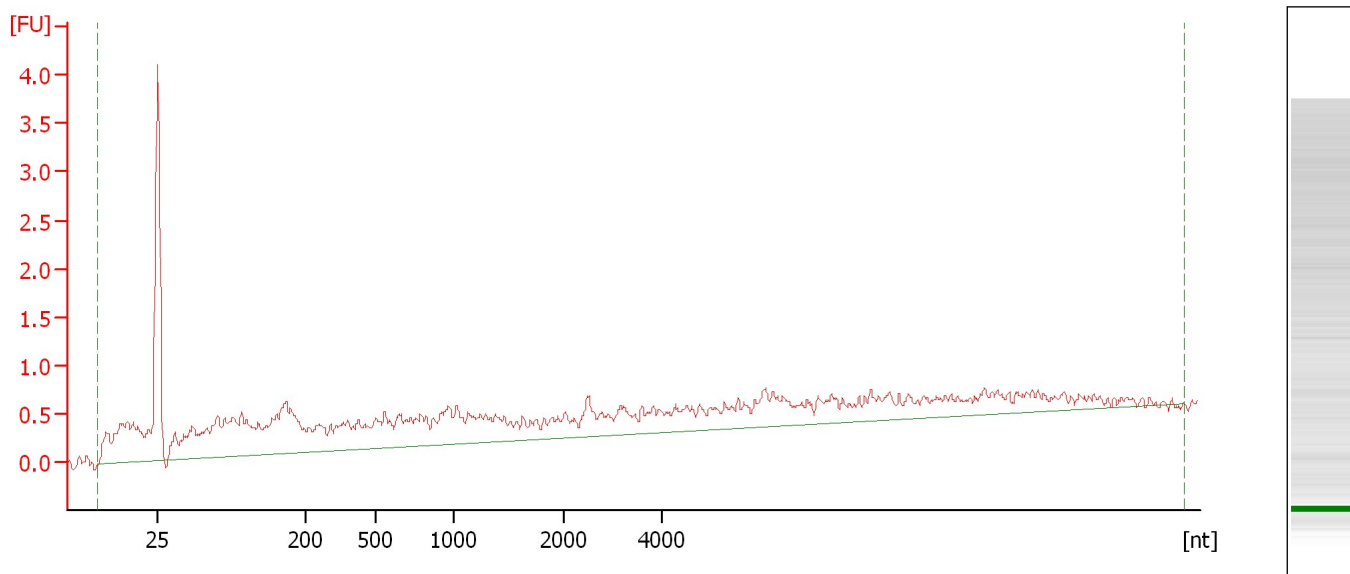
RNA Area: 16.2 rRNA Contamination: 0.0 %
RNA Concentration: 337 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

20 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 8 : 20

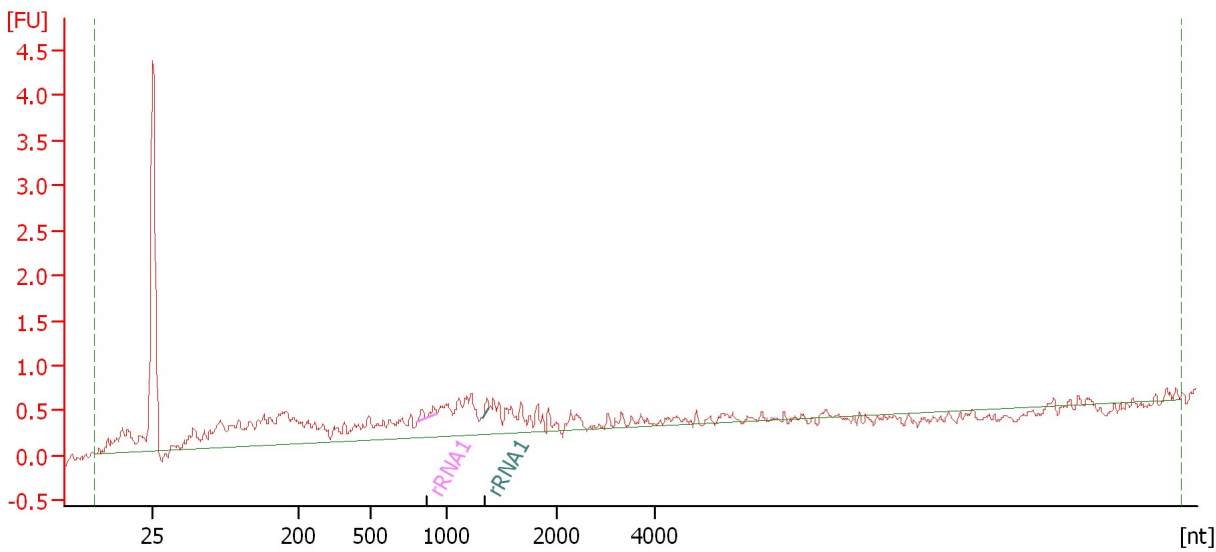
RNA Area: 39.0 rRNA Contamination: 0.0 %
RNA Concentration: 811 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

21 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 9 : 21

RNA Area: 19.8 rRNA Contamination: 1.3 %
RNA Concentration: 413 pg/μl

Fragment table for sample 9 : 21

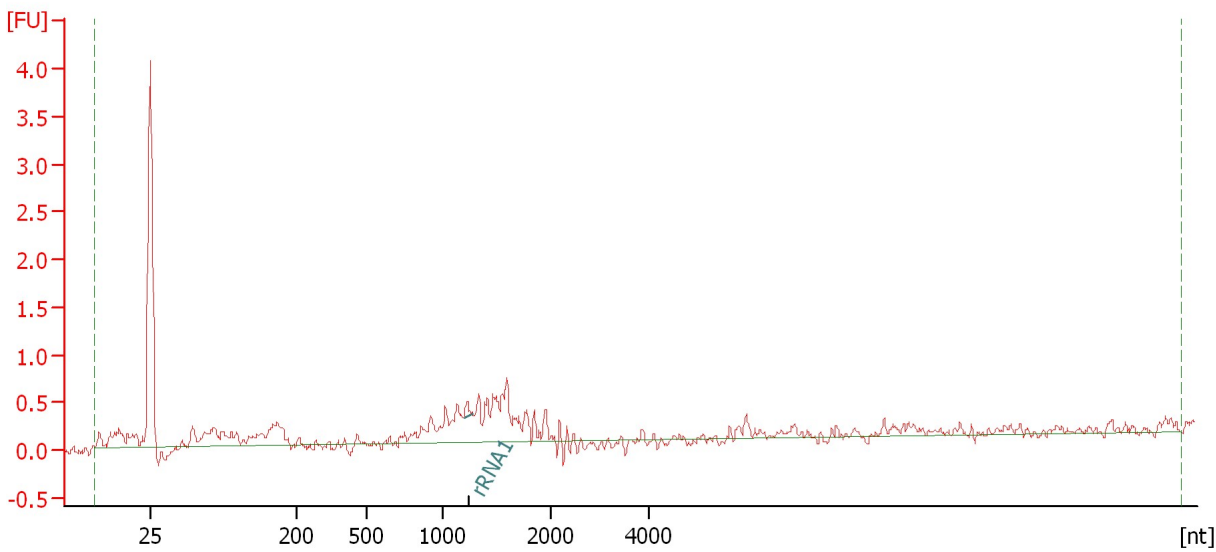
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	804	934	0.2	0.9
rRNA1	1,323	1,381	0.1	0.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

22 [HiSeq_878 Globin 0 RNA]



Overall Results for sample 10 : 22

RNA Area: 12.7 rRNA Contamination: 0.7 %
RNA Concentration: 264 pg/μl

Fragment table for sample 10 : 22

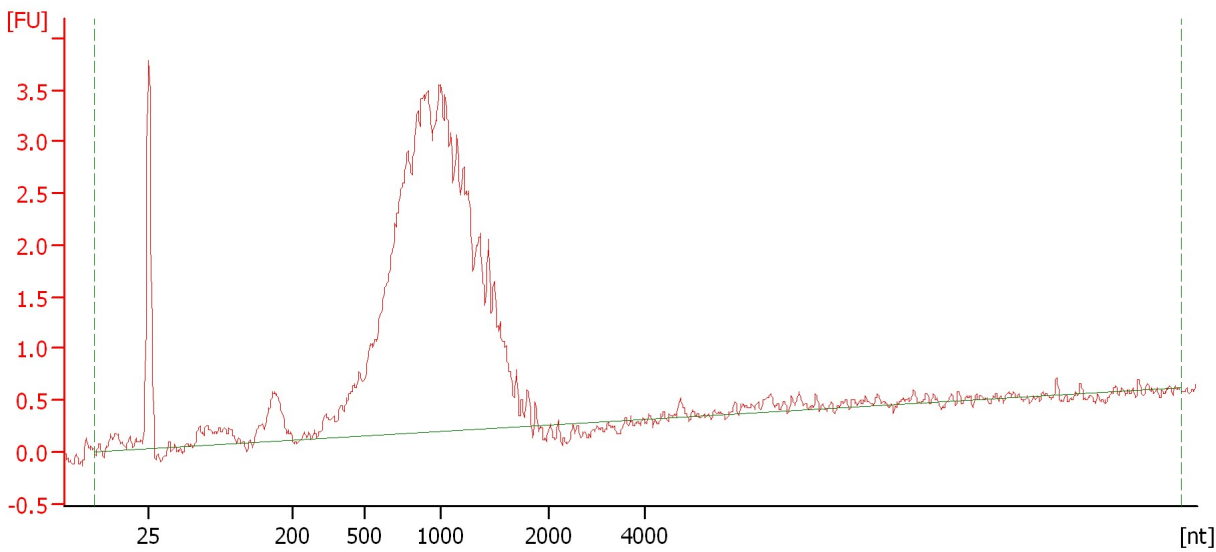
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,192	1,273	0.1	0.7

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Electropherogram Summary Continued ...

23 [HiSeq_878 Globin 0 RNA]



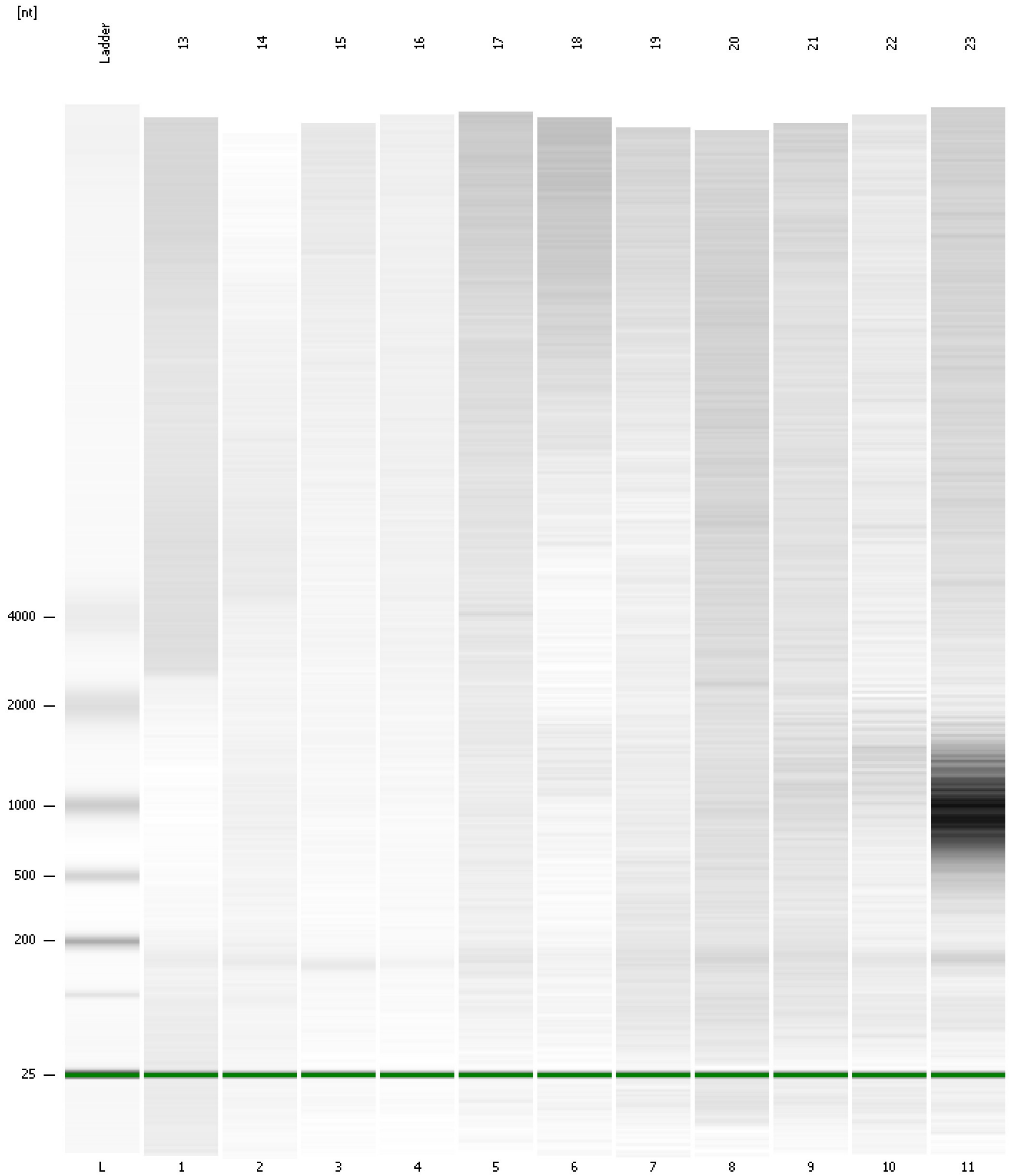
Overall Results for sample 11 : 23

RNA Area: 59.8 rRNA Contamination: 0.0 %
RNA Concentration: 1,246 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
Modified: 4/6/2017 12:33:14 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad

Created: 4/6/2017 12:08:12 PM
 Modified: 4/6/2017 12:33:14 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		4/6/2017 12:33:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-04-06\2017-04-06_003.xad)		Instrument	Run		4/6/2017 12:08:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/6/2017 12:08:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/6/2017 12:08:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/6/2017 12:08:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/6/2017 12:08:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/6/2017 12:08:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/6/2017 12:08:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1