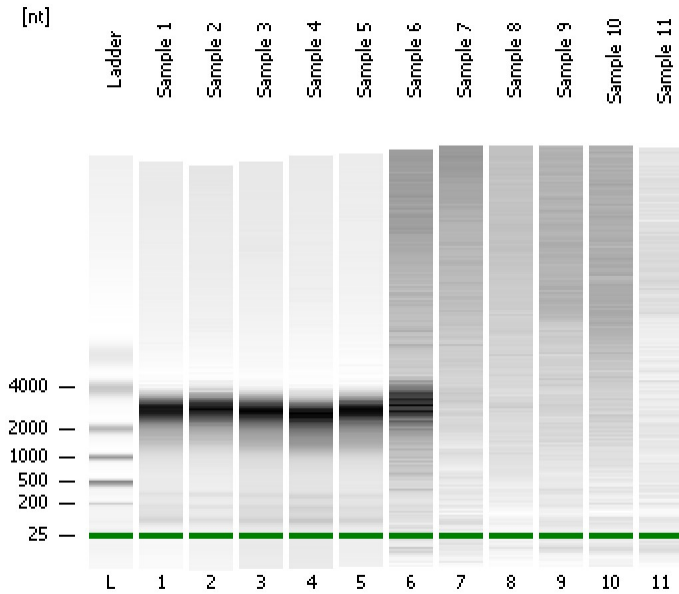


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

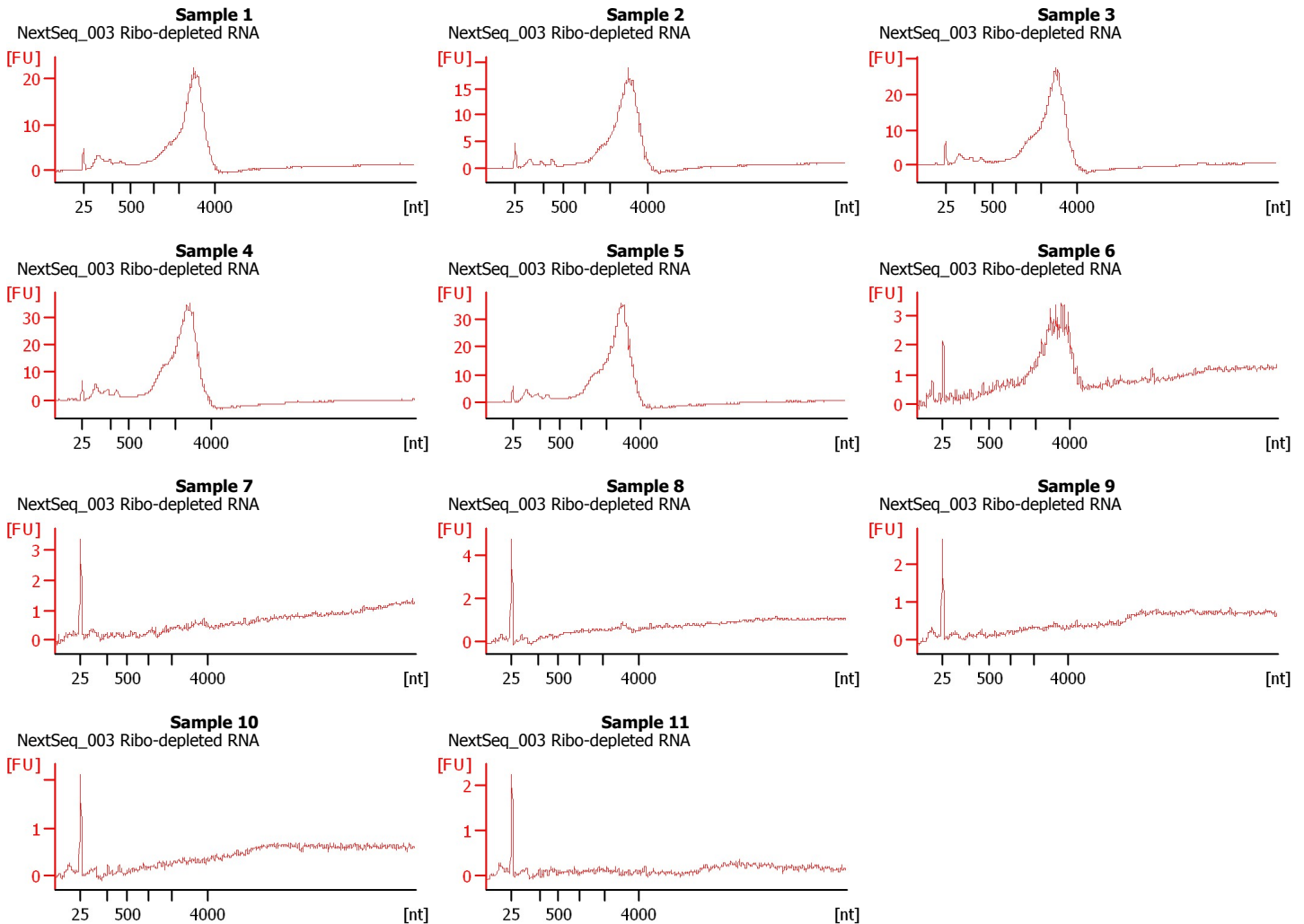
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1	NextSeq_003 Ribo-depleted RNA	✓		
Sample 2	NextSeq_003 Ribo-depleted RNA	✓		
Sample 3	NextSeq_003 Ribo-depleted RNA	✓		
Sample 4	NextSeq_003 Ribo-depleted RNA	✓		
Sample 5	NextSeq_003 Ribo-depleted RNA	✓		
Sample 6	NextSeq_003 Ribo-depleted RNA	✓		
Sample 7	NextSeq_003 Ribo-depleted RNA	✓		
Sample 8	NextSeq_003 Ribo-depleted RNA	✓		
Sample 9	NextSeq_003 Ribo-depleted RNA	✓		
Sample 10	NextSeq_003 Ribo-depleted RNA	✓		
Sample 11	NextSeq_003 Ribo-depleted RNA	✓		
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 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/ 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

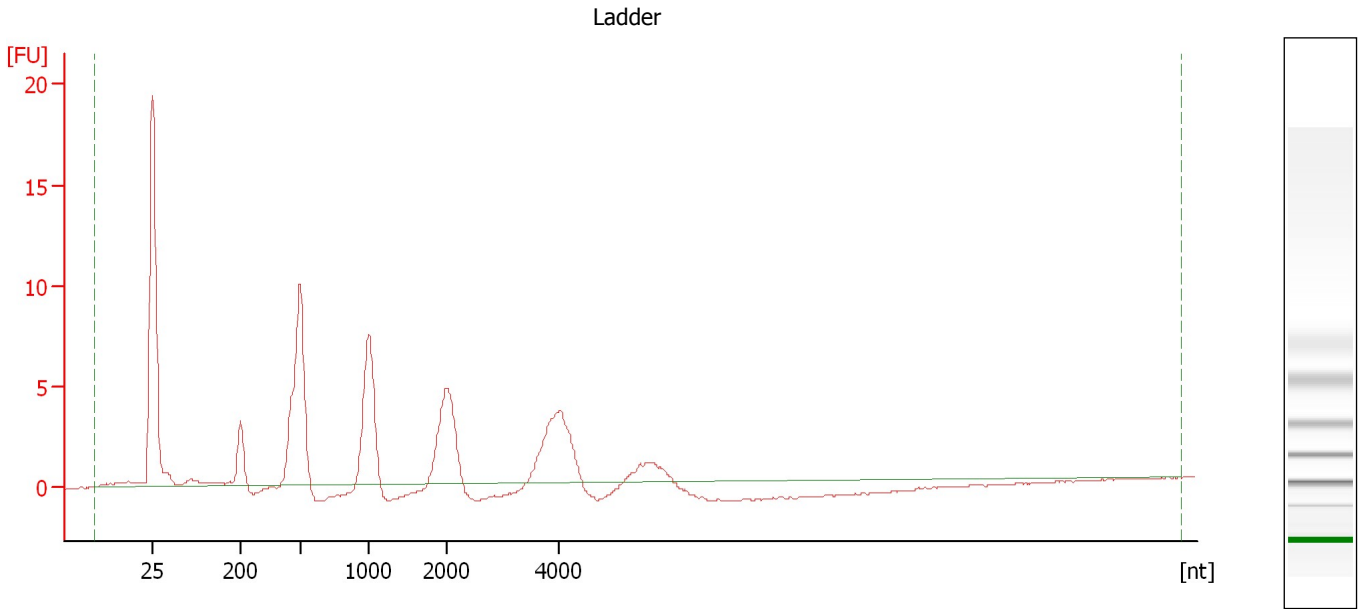
Ladder

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\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary



Overall Results for Ladder

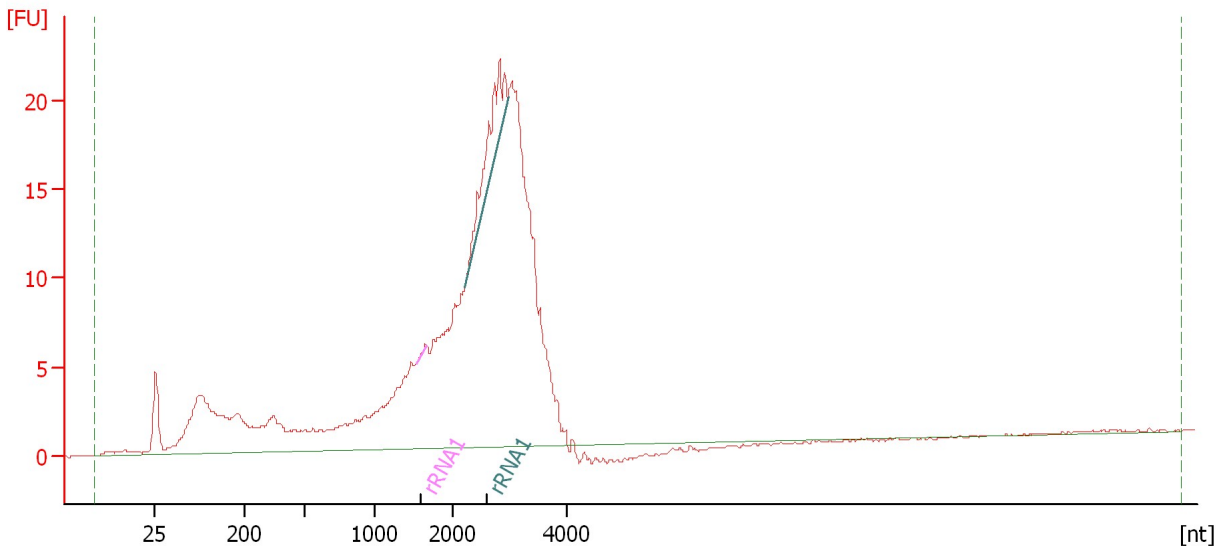
RNA Area: 91.5 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 1 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 1 : Sample 1

RNA Area: 351.3 rRNA Contamination: 3.8 %
RNA Concentration: 3,841 pg/μl

Fragment table for sample 1 : Sample 1

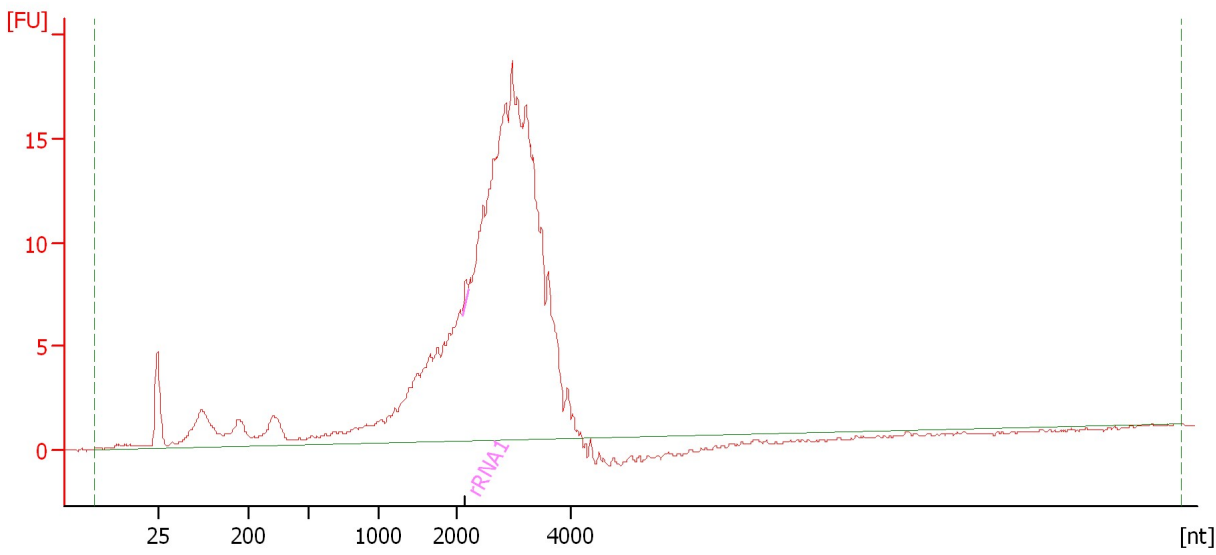
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,553	1,675	0.2	0.1
rRNA1	2,213	2,986	12.9	3.7

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 2 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 2 : Sample 2

RNA Area: 252.9 rRNA Contamination: 0.2 %
RNA Concentration: 2,765 pg/μl

Fragment table for sample 2 : Sample 2

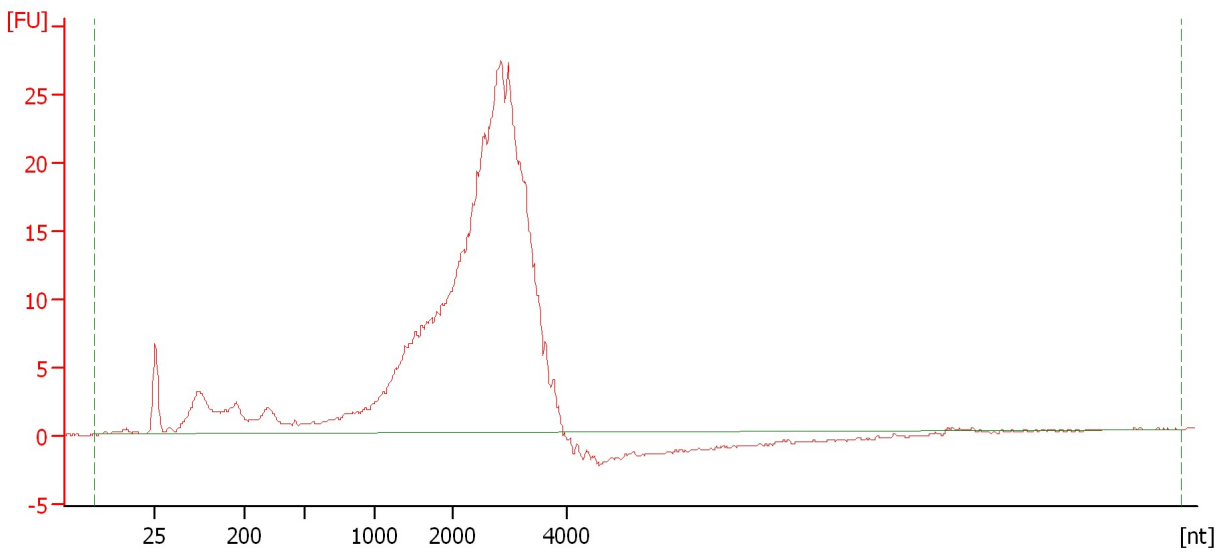
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	2,089	2,200	0.6	0.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 3 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 3 : Sample 3

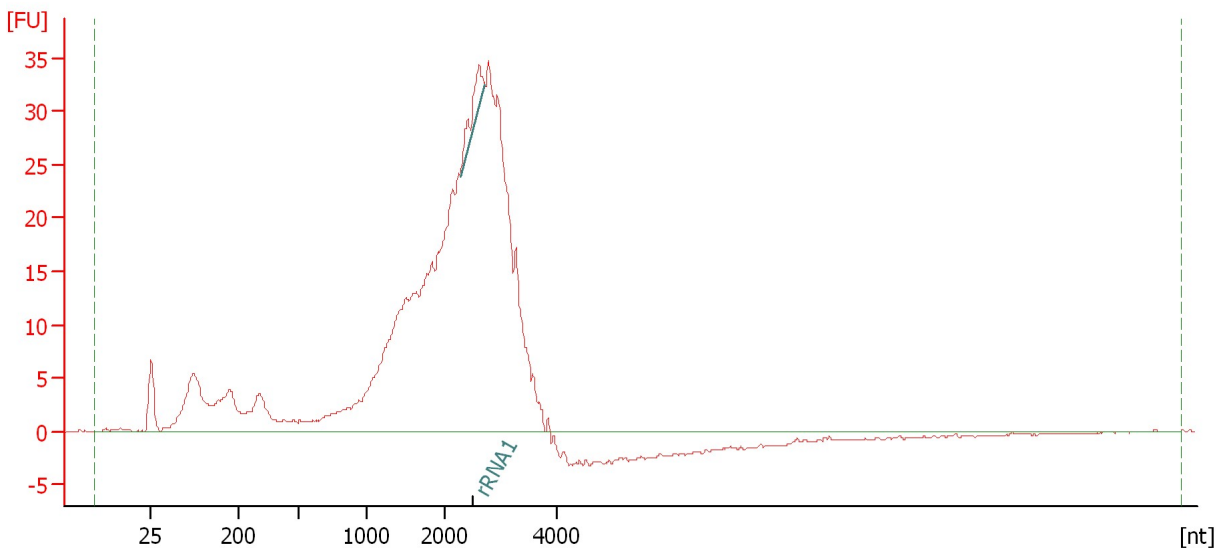
RNA Area: 415.1 rRNA Contamination: 0.0 %
RNA Concentration: 4,538 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 4 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 4 : Sample 4

RNA Area: 583.4 rRNA Contamination: 1.3 %
RNA Concentration: 6,379 pg/μl

Fragment table for sample 4 : Sample 4

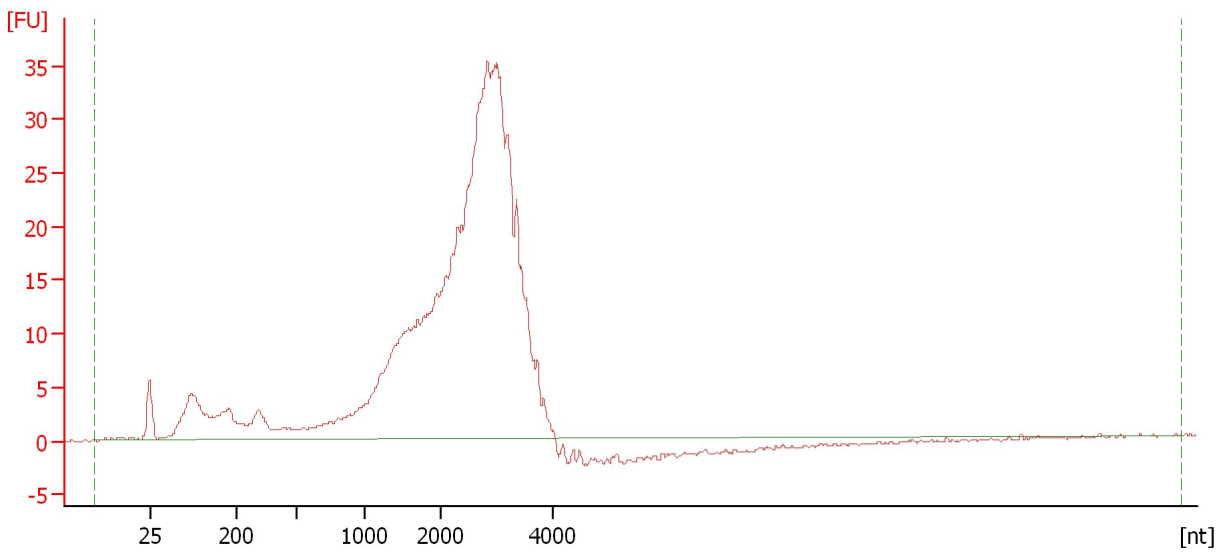
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	2,283	2,696	7.8	1.3

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 5 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 5 : Sample 5

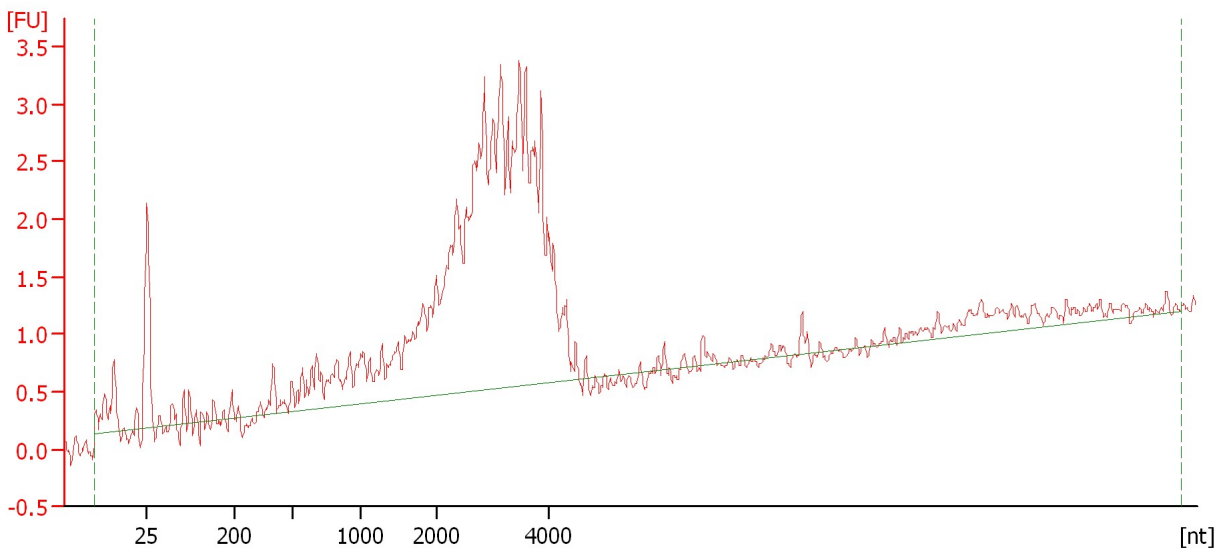
RNA Area: 546.5 rRNA Contamination: 0.0 %
RNA Concentration: 5,975 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 6 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 6 : Sample 6

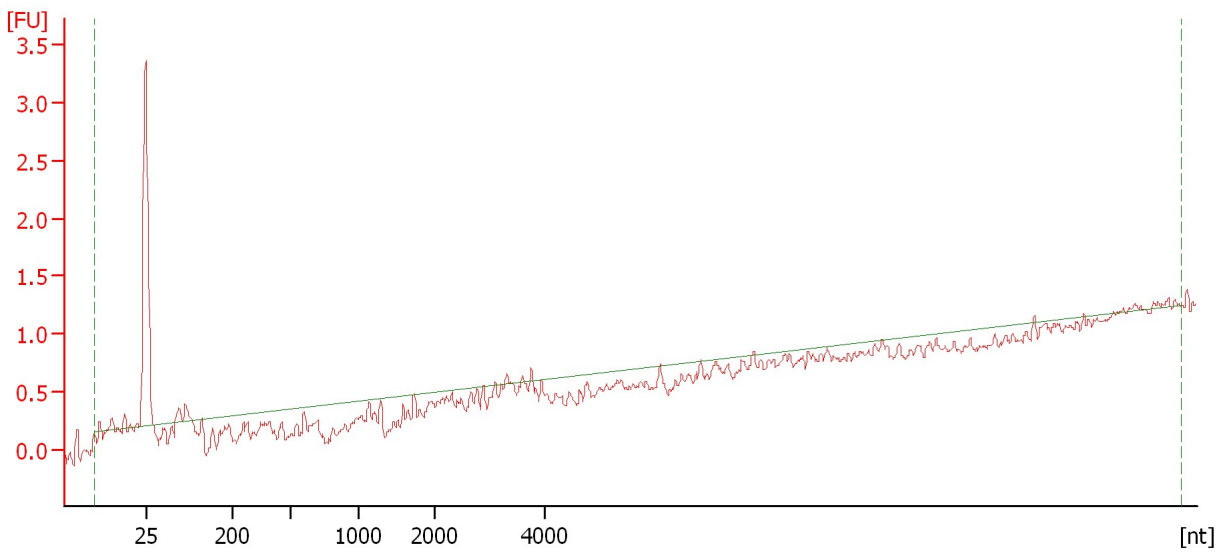
RNA Area: 51.5 rRNA Contamination: 0.0 %
RNA Concentration: 563 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 7 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 7 : Sample 7

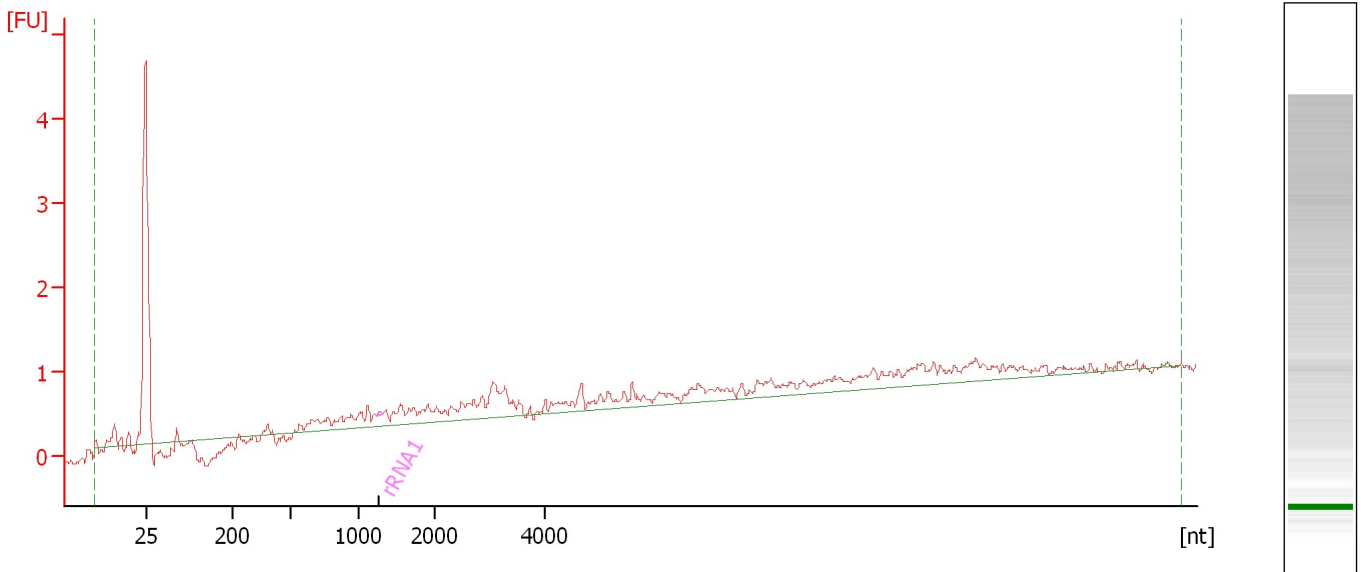
RNA Area:	0.9	rRNA Contamination:	0.0 %
RNA Concentration:	9 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 8 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 8 : Sample 8

RNA Area: 15.6 rRNA Contamination: 0.2 %
RNA Concentration: 170 pg/μl

Fragment table for sample 8 : Sample 8

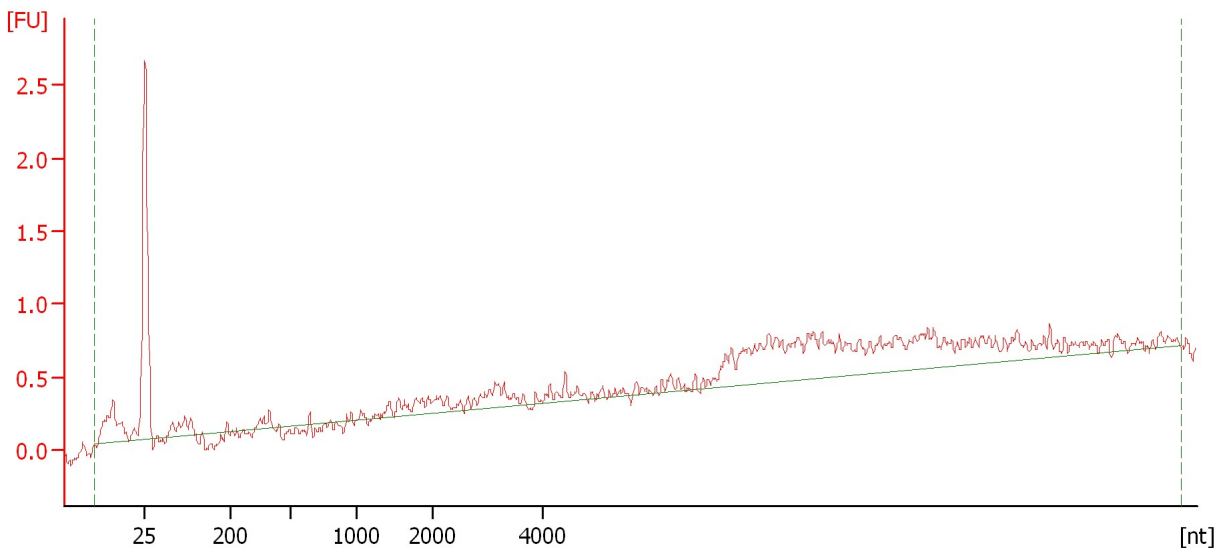
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,248	1,311	0.0	0.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 9 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 9 : Sample 9

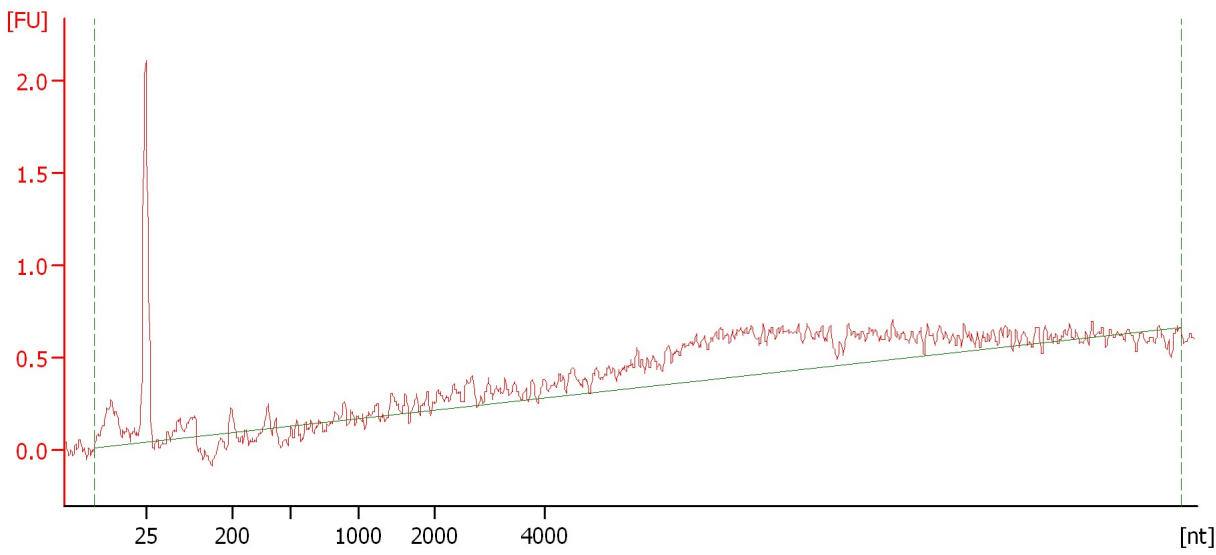
RNA Area:	12.8	rRNA Contamination:	0.0 %
RNA Concentration:	140 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 10 [NextSeq_003 Ribo-depleted RNA]



Overall Results for sample 10 : Sample 10

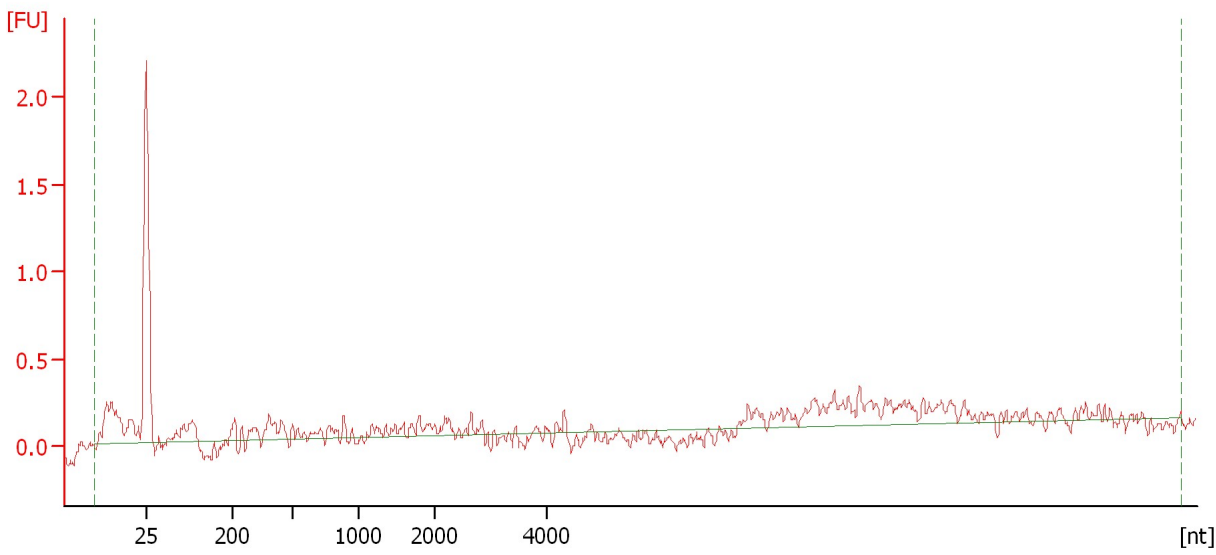
RNA Area:	11.4	rRNA Contamination:	0.0 %
RNA Concentration:	124 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Electropherogram Summary Continued ...

Sample 11 [NextSeq_003 Ribo-depleted RNA]



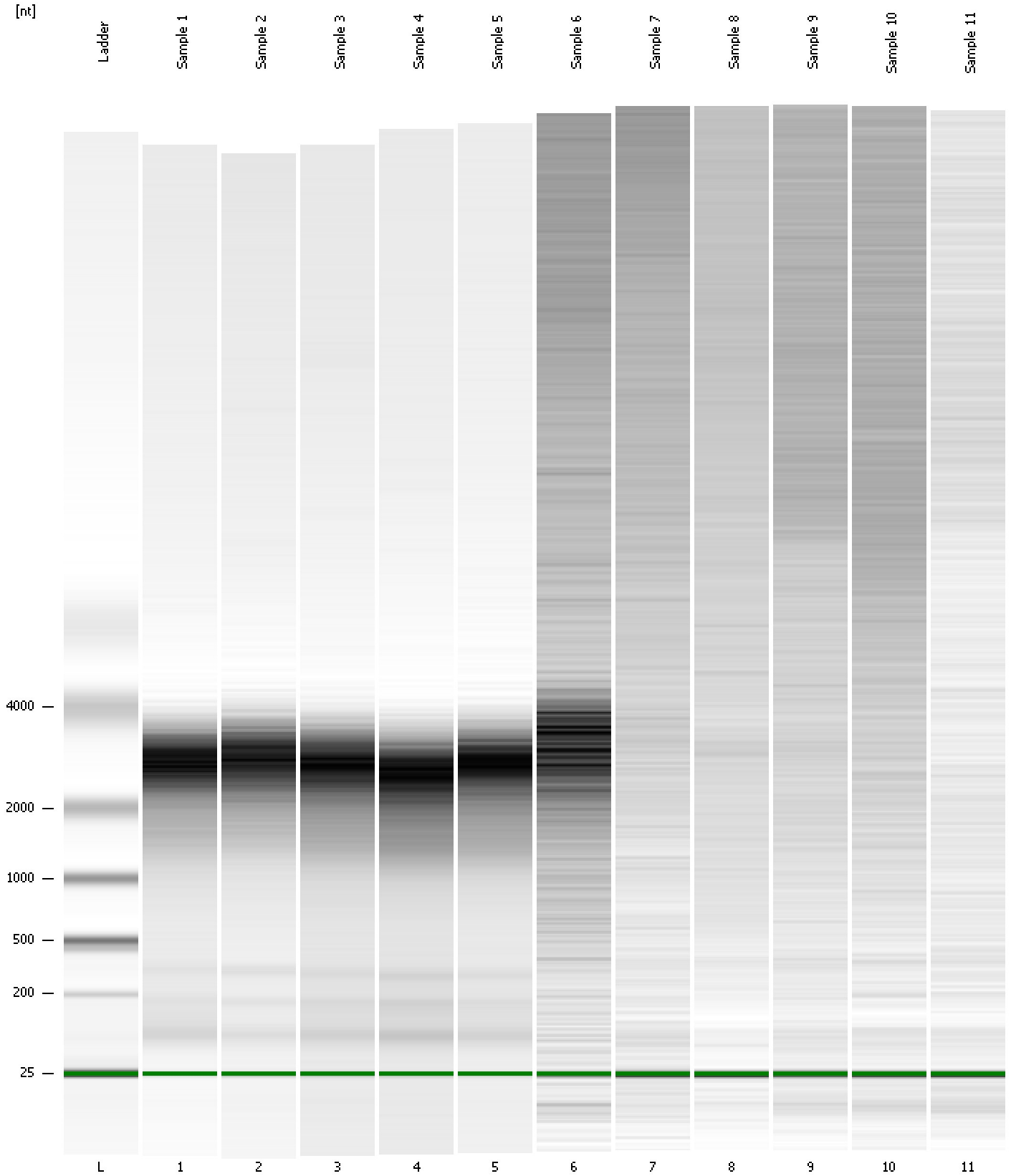
Overall Results for sample 11 : Sample 11

RNA Area: 7.6 rRNA Contamination: 0.0 %
RNA Concentration: 83 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
Modified: 7/14/2016 11:54:04 AM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-07-14\2016-07-14_001.xad

Created: 7/14/2016 11:28:09 AM
 Modified: 7/14/2016 11:54:04 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		7/14/2016 11:54:03 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\2016-07-14\2016-07-14_001.xad)		Instrument	Run		7/14/2016 11:28:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		7/14/2016 11:28:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		7/14/2016 11:28:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		7/14/2016 11:28:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		7/14/2016 11:28:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		7/14/2016 11:28:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		7/14/2016 11:28:14 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1