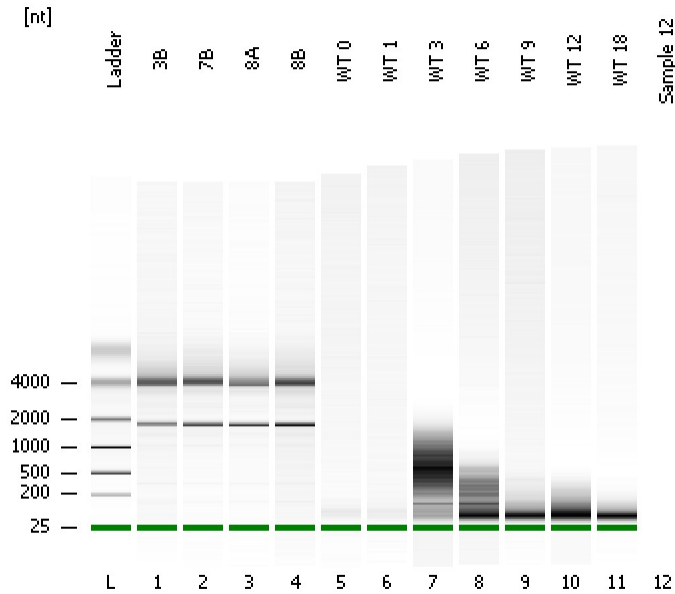


Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

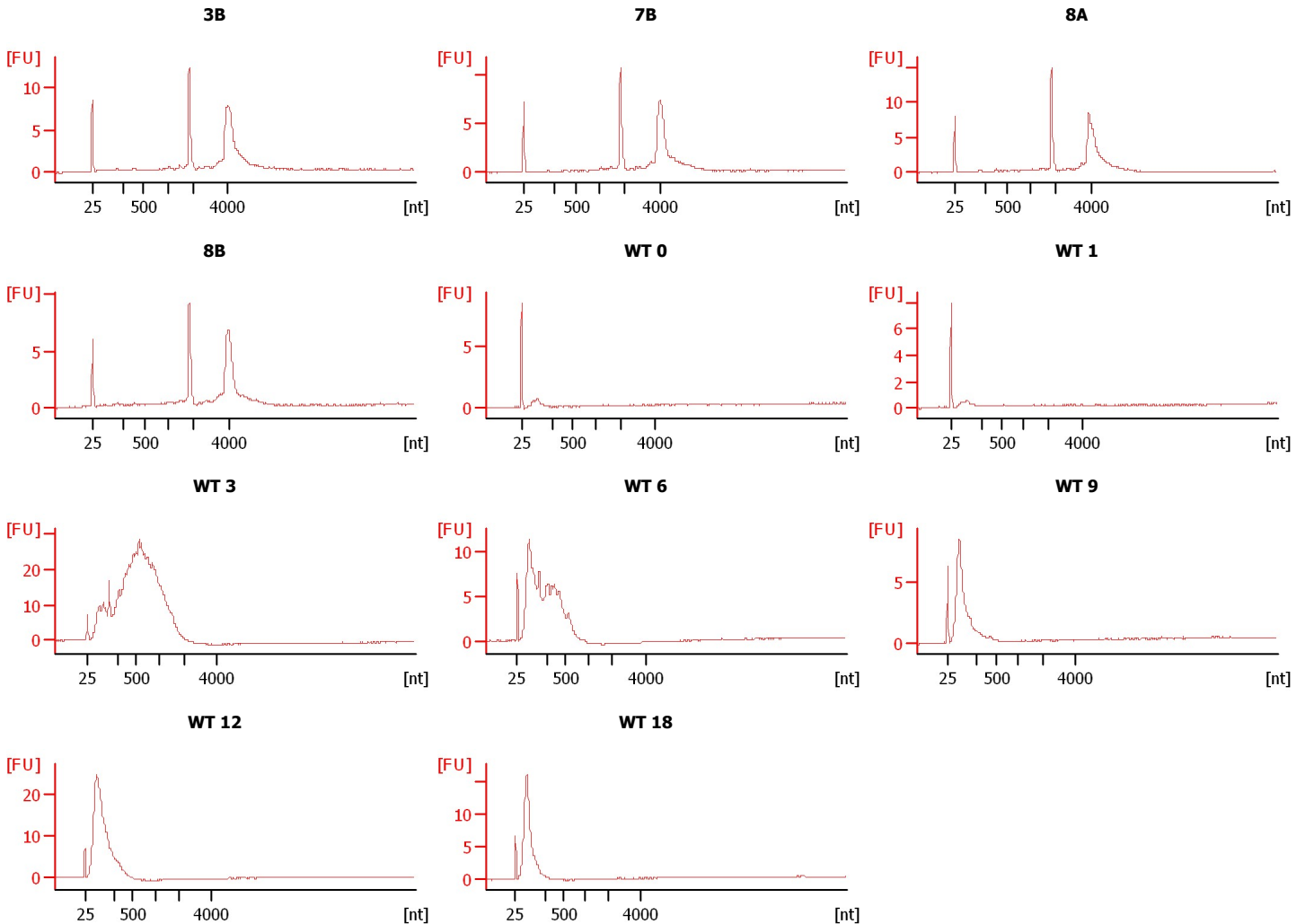
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

Assay Class: mRNA Nano
Version: 2.5
Assay Comments: mRNA Analysis ng sensitivity

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Chip Information:

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



Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
3B		✓		
7B		✓		
8A		✓		
8B		✓		
WT 0		✓		
WT 1		✓		
WT 3		✓		
WT 6		✓		
WT 9		✓		
WT 12		✓		
WT 18		✓		
Sample 12				
Ladder		✓		

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

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 13

Minimum Visible Range [s] : 14

Maximum Visible Range [s] : 85

Start Analysis Time Range [s] : 15

End Analysis Time Range [s] : 84

Ladder Concentration [ng/ μ l] : 150

Lower Marker Concentration [ng/ μ l] : 0

Upper Marker Concentration [ng/ 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

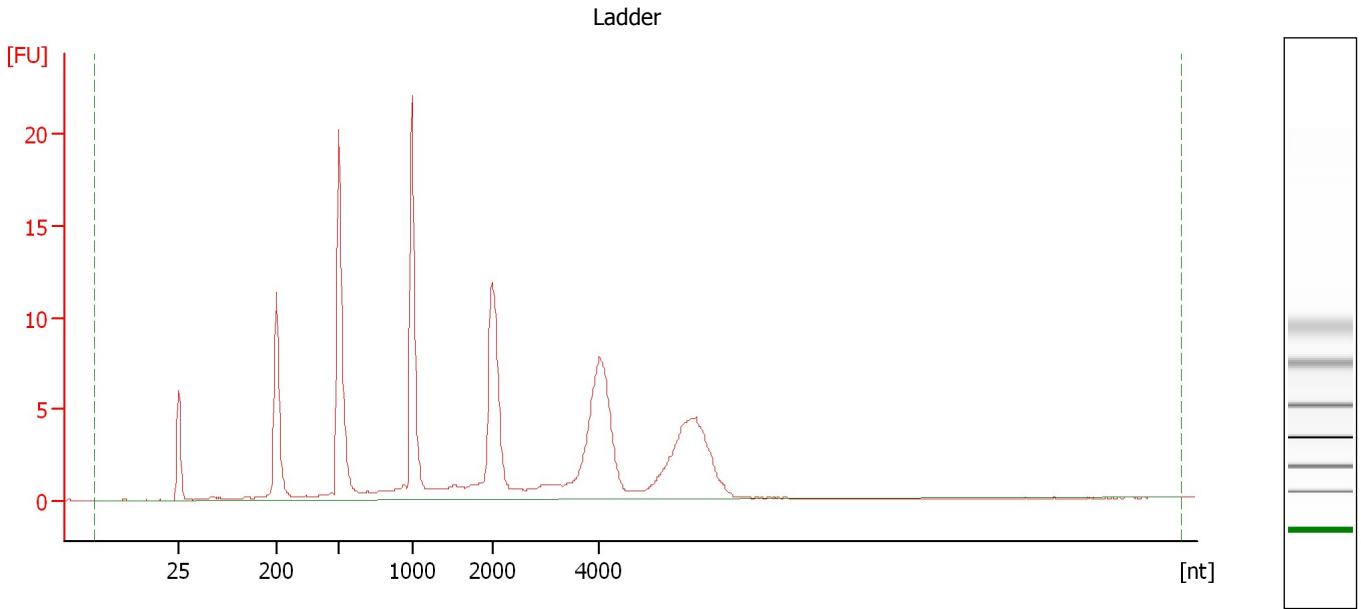
Ladder

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

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary



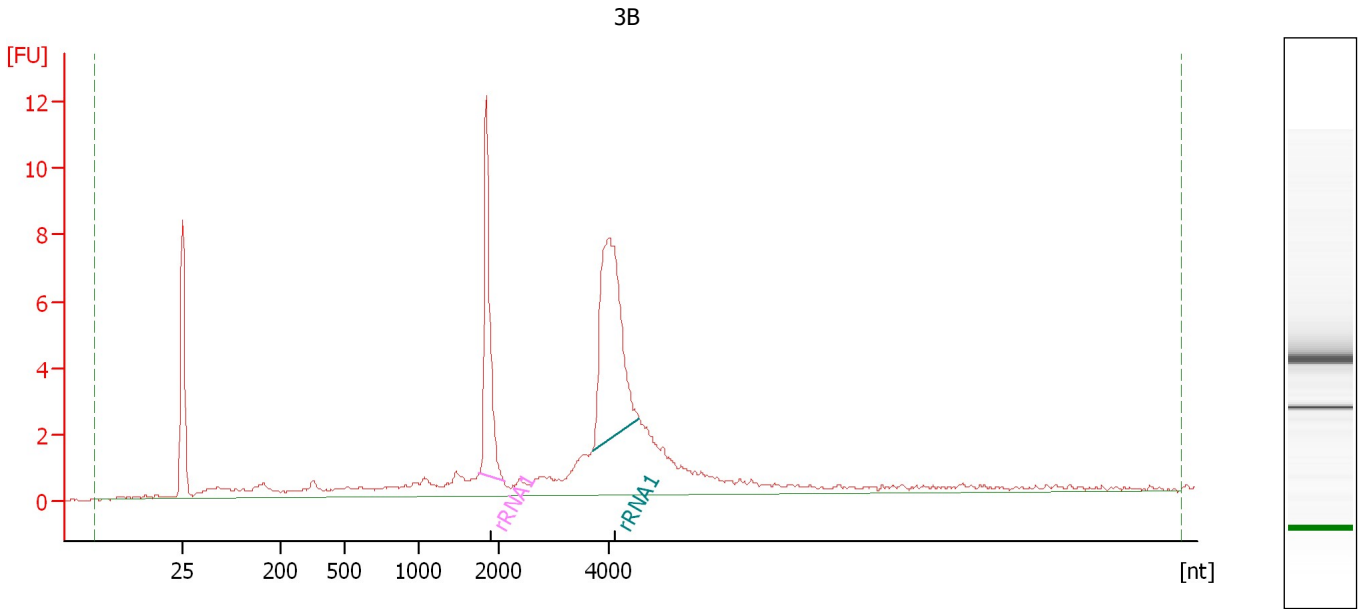
Overall Results for Ladder

RNA Area: 160.7 RNA Concentration: 150 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 3B

RNA Area: 88.1 rRNA Contamination: 34.5 %
RNA Concentration: 82 ng/μl

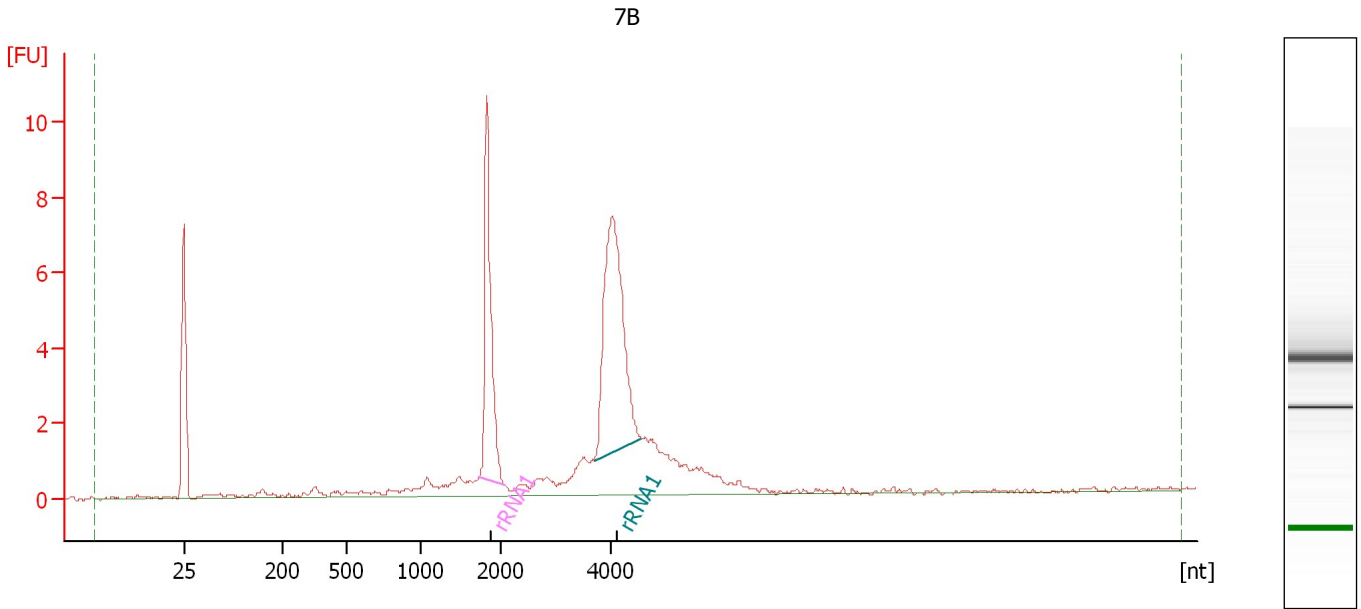
Fragment table for sample 1 : 3B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,746	2,078	11.5	13.0
rRNA1	3,704	4,568	18.9	21.4

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 7B

RNA Area: 60.4 rRNA Contamination: 48.1 %
RNA Concentration: 56 ng/μl

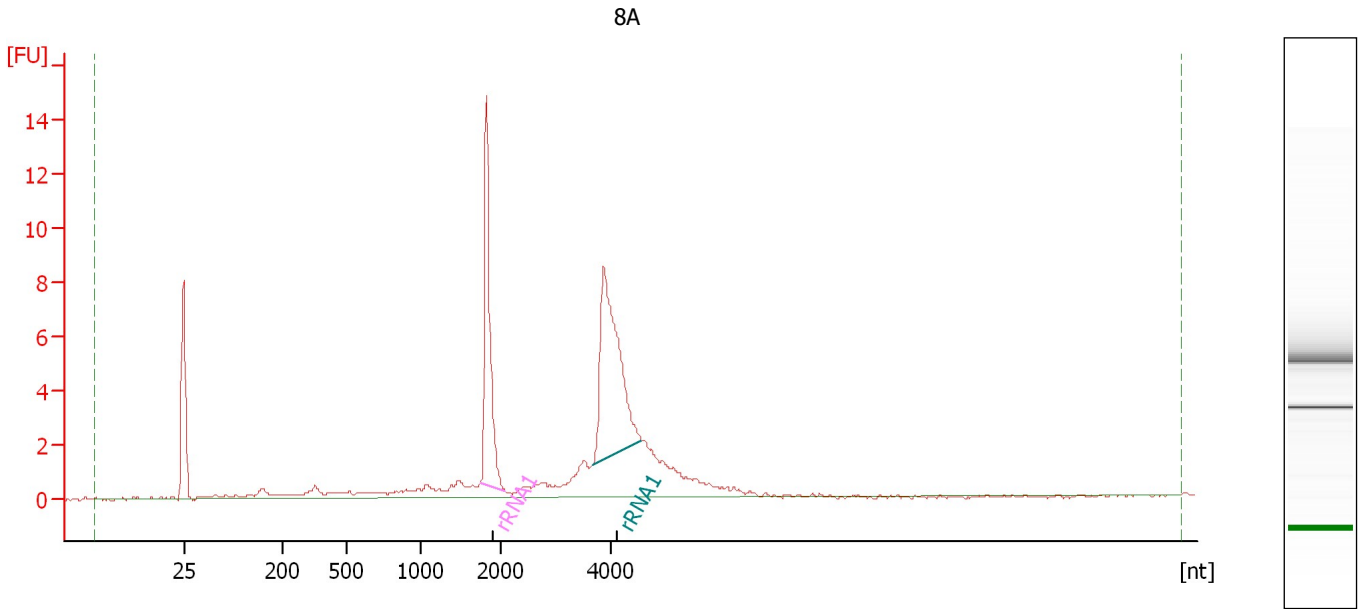
Fragment table for sample 2 : 7B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,728	2,065	11.2	18.5
rRNA1	3,716	4,577	17.9	29.6

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
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Electropherogram Summary Continued ...



Overall Results for sample 3 : 8A

RNA Area: 72.3 rRNA Contamination: 45.4 %
RNA Concentration: 67 ng/μl

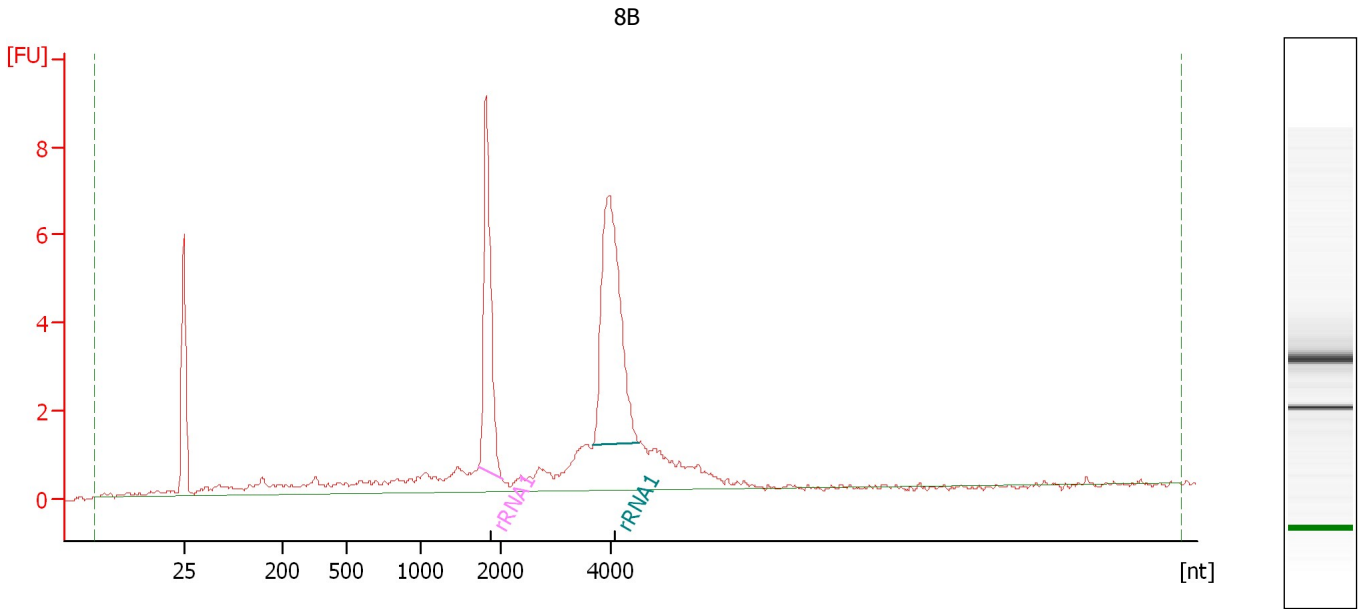
Fragment table for sample 3 : 8A

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,738	2,065	13.8	19.1
rRNA1	3,686	4,577	19.0	26.2

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 8B

RNA Area: 64.4 rRNA Contamination: 40.9 %
RNA Concentration: 60 ng/μl

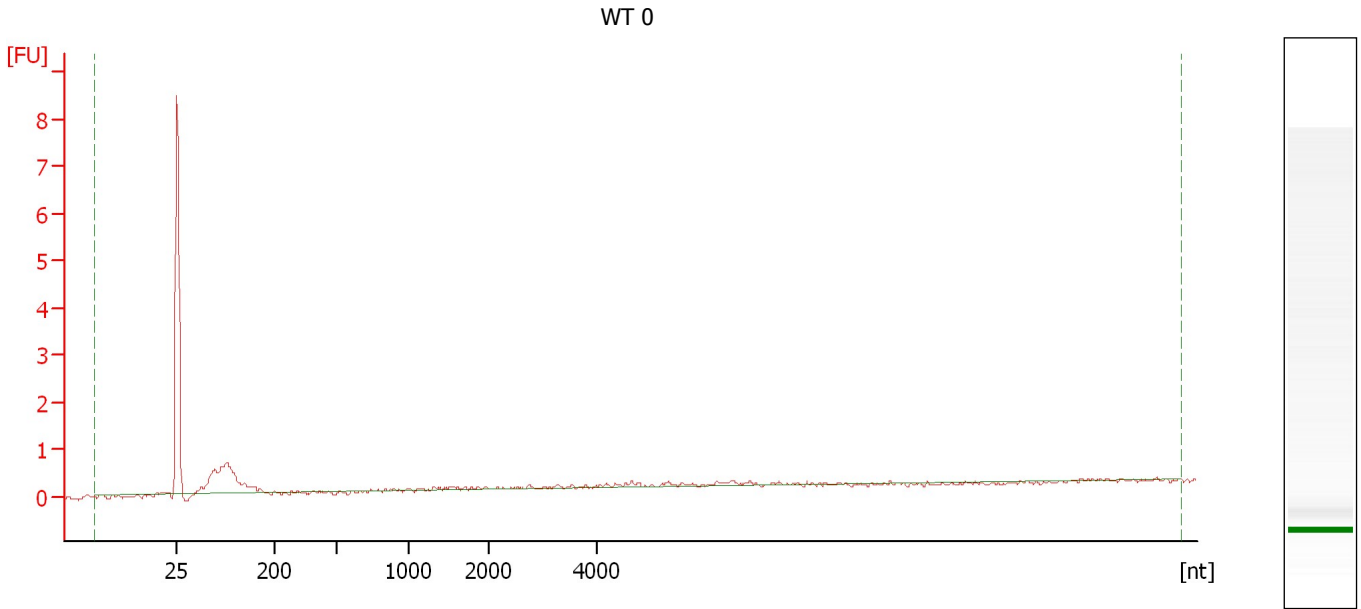
Fragment table for sample 4 : 8B

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,718	2,021	10.6	16.4
rRNA1	3,686	4,519	15.8	24.5

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WT 0

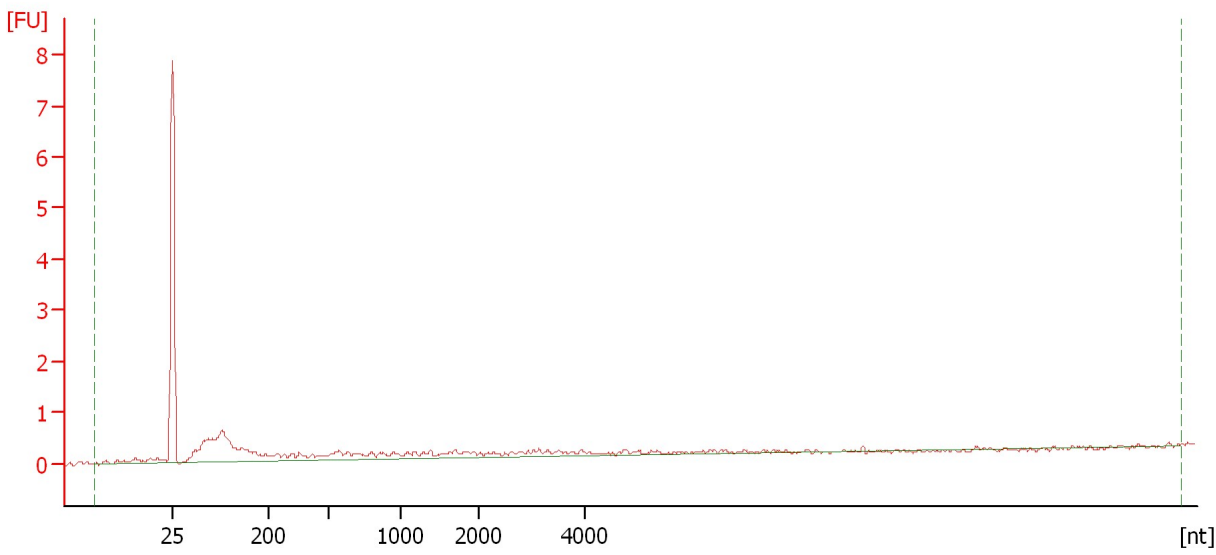
RNA Area:	7.5	rRNA Contamination:	0.0 %
RNA Concentration:	7 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...

WT 1



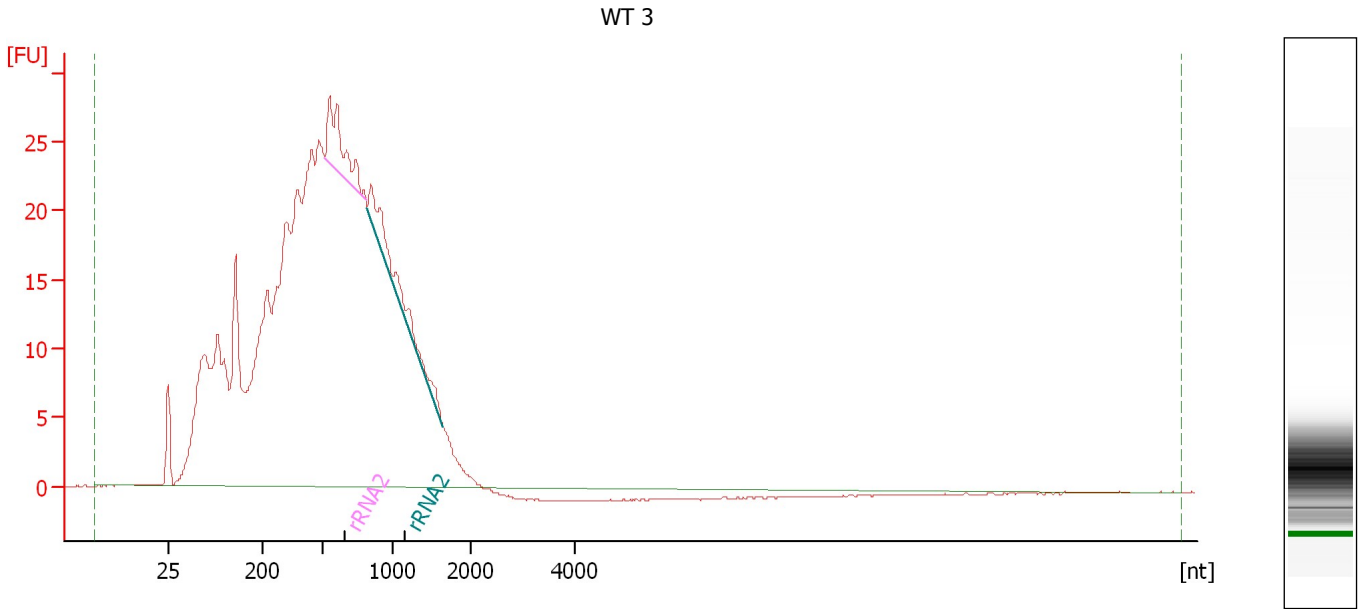
Overall Results for sample 6 : WT 1

RNA Area:	13.6	rRNA Contamination:	0.0 %
RNA Concentration:	13 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : WT 3

RNA Area: 833.5 rRNA Contamination: 3.7 %
RNA Concentration: 778 ng/μl

Fragment table for sample 7 : WT 3

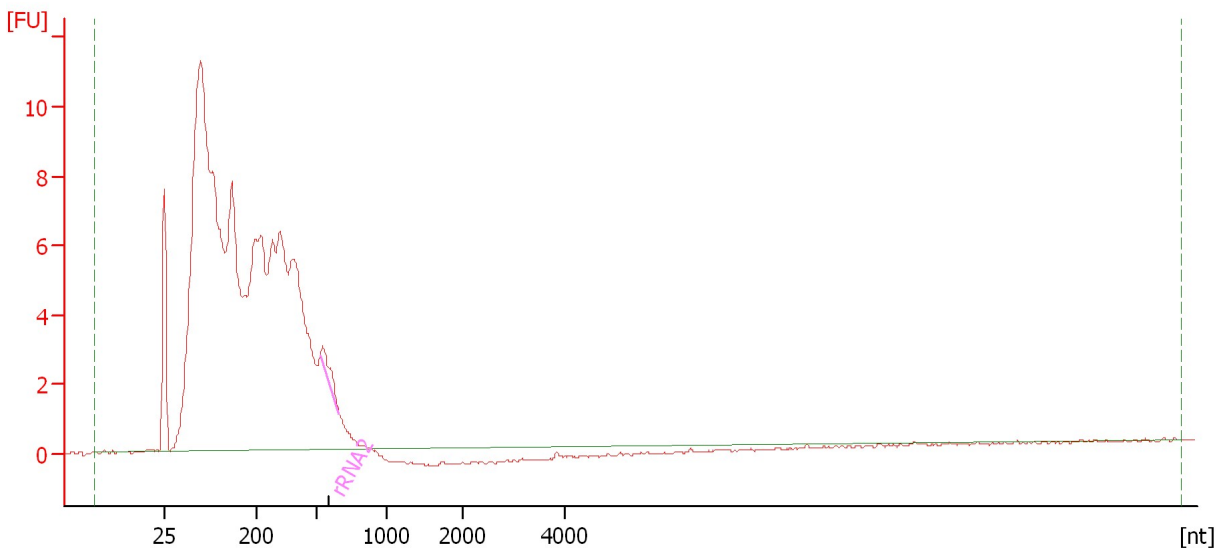
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	520	806	17.1	2.0
rRNA2	818	1,647	13.7	1.6

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...

WT 6



Overall Results for sample 8 : WT 6

RNA Area: 212.0 rRNA Contamination: 0.6 %
RNA Concentration: 198 ng/μl

Fragment table for sample 8 : WT 6

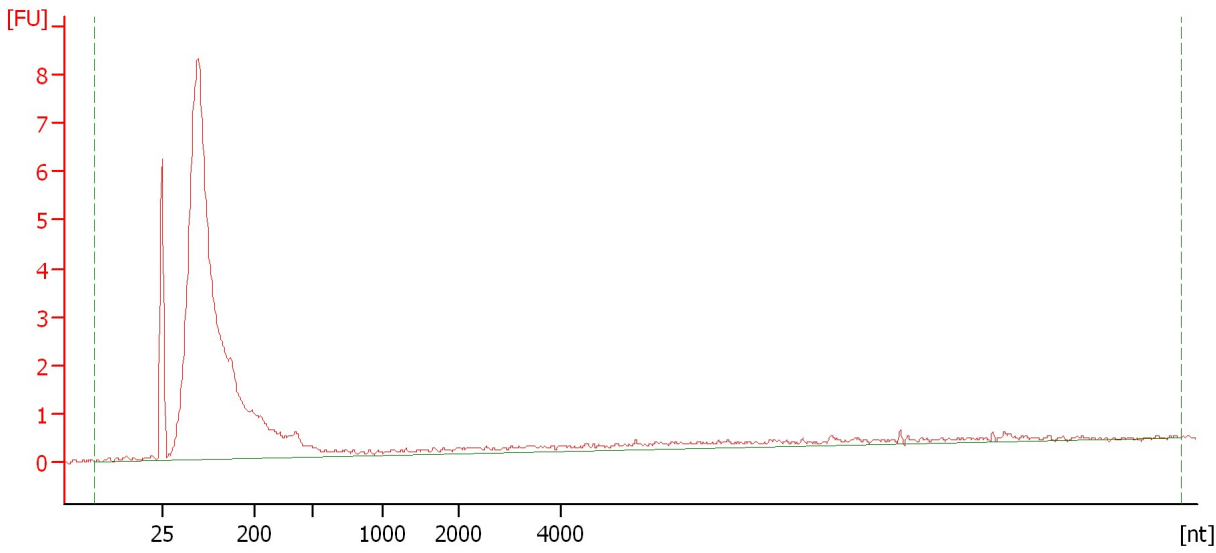
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	528	664	1.3	0.6

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...

WT 9



Overall Results for sample 9 : WT 9

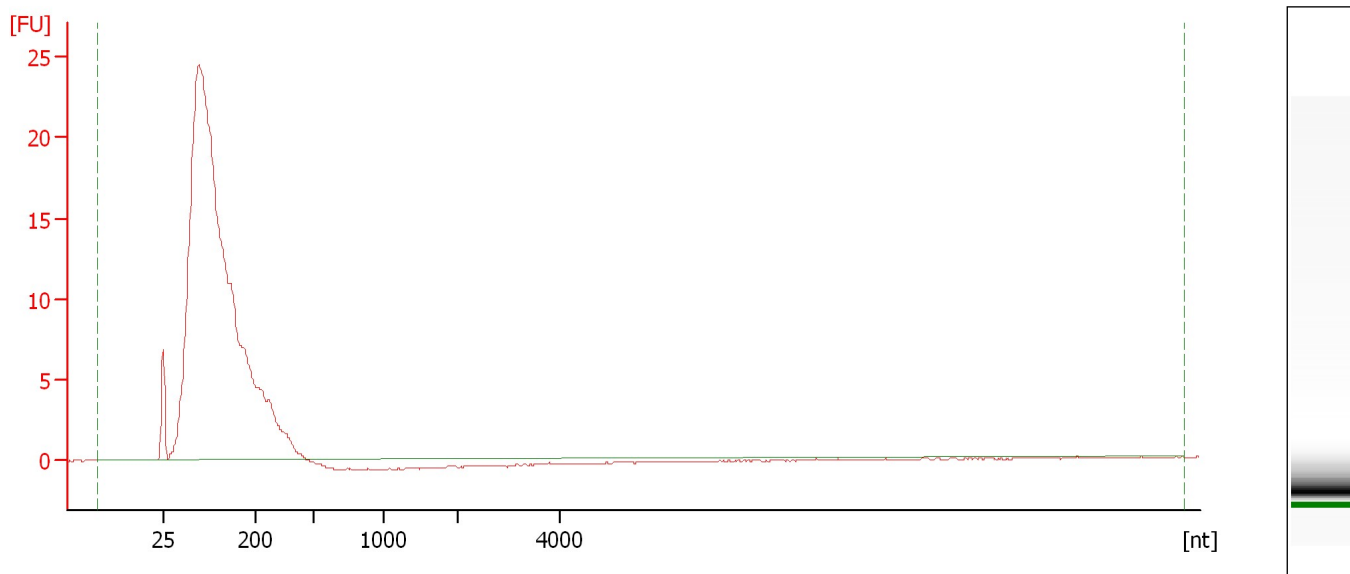
RNA Area:	86.7	rRNA Contamination:	0.0 %
RNA Concentration:	81 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...

WT 12



Overall Results for sample 10 : WT 12

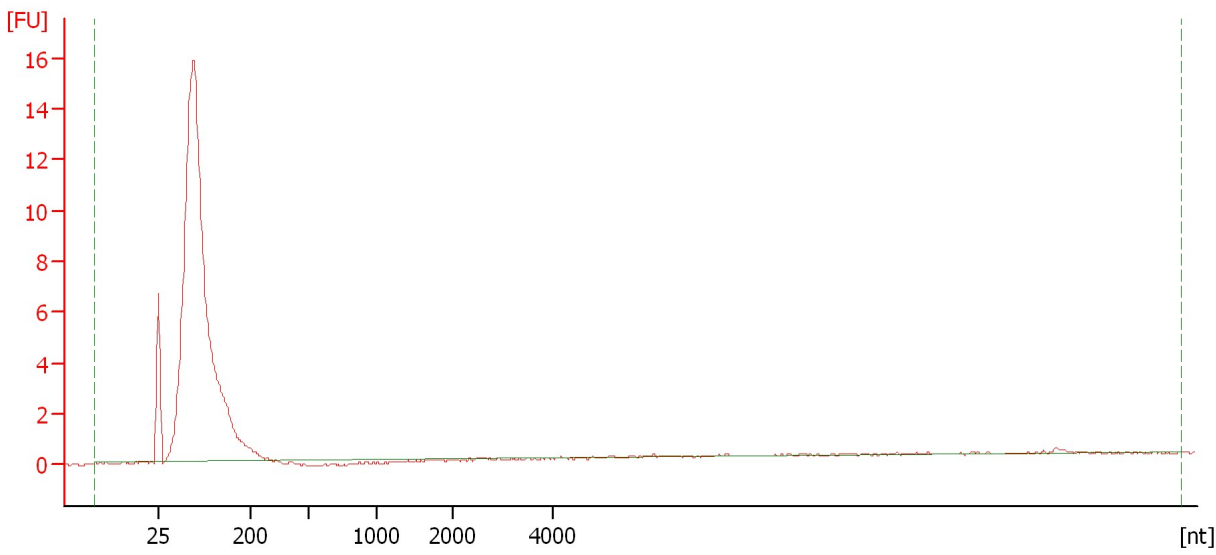
RNA Area: 297.4 rRNA Contamination: 0.0 %
RNA Concentration: 278 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Electropherogram Summary Continued ...

WT 18



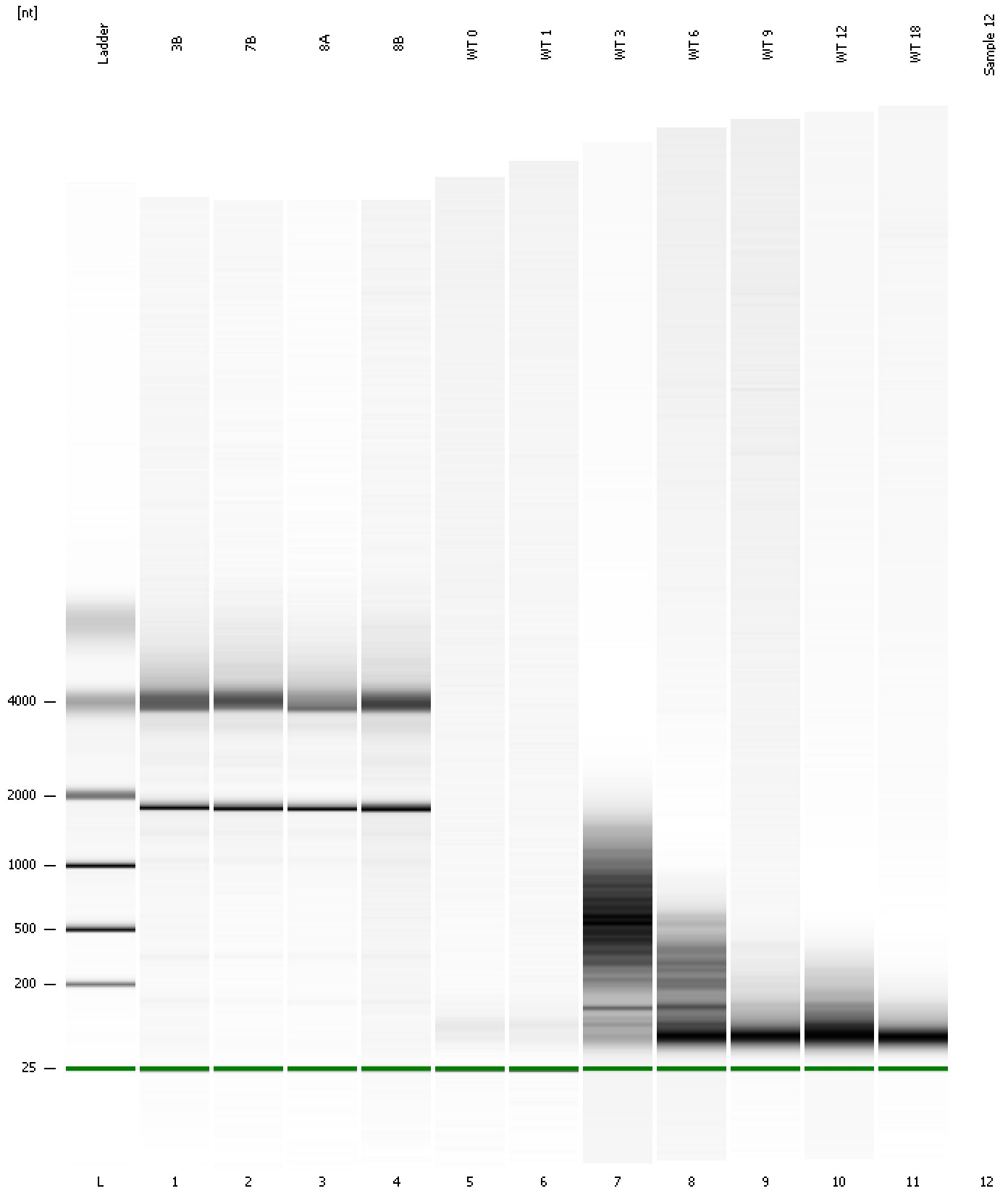
Overall Results for sample 11 : WT 18

RNA Area: 116.7 rRNA Contamination: 0.0 %
RNA Concentration: 109 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Gel Image



Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:13:16 PM

Invalid Samples

Sample 12 has not been run, no results available.

Assay Class: mRNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-06-14\2016-06-14_003.xad

Created: 6/14/2016 11:48:35 AM
 Modified: 6/14/2016 12:13:16 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		6/14/2016 12:13:14 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\2016-06-14\2016-06-14_003.xad)		Instrument	Run		6/14/2016 11:48:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/14/2016 11:48:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/14/2016 11:48:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/14/2016 11:48:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/14/2016 11:48:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/14/2016 11:48:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/14/2016 11:48:36 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1