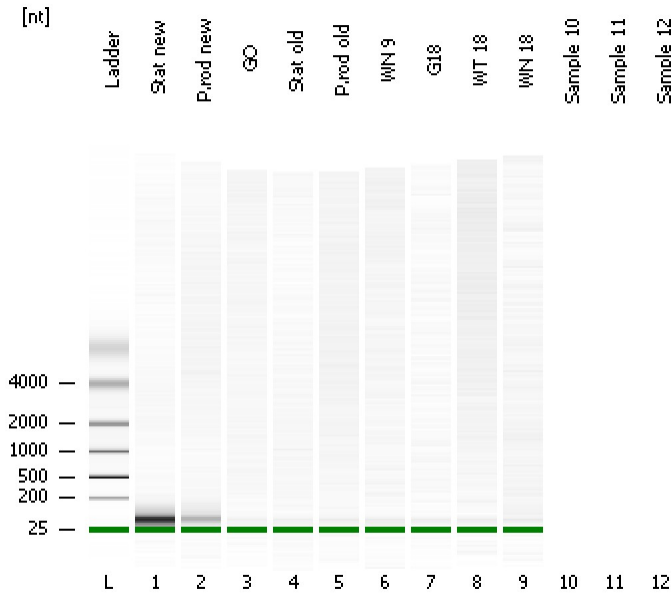


Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

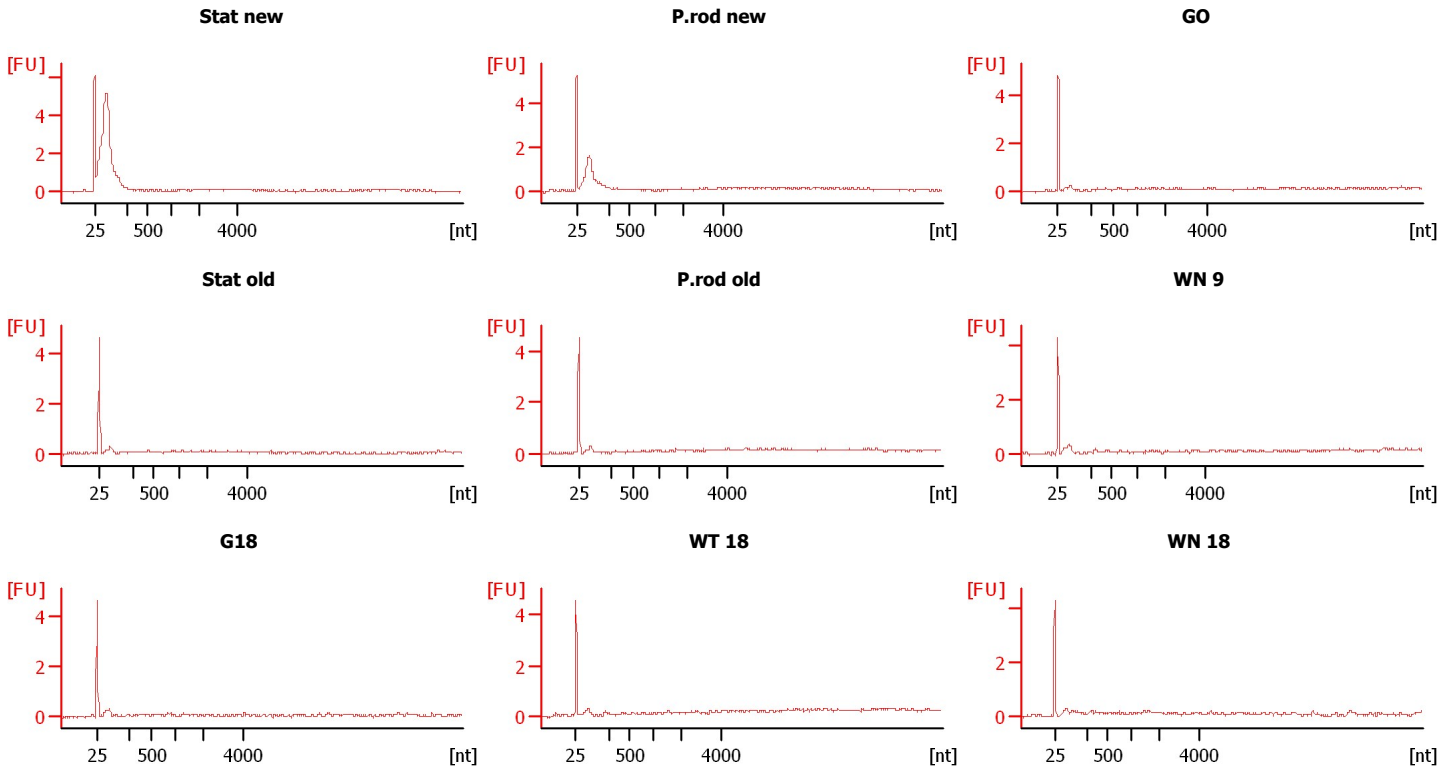
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

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\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Stat new		✓		
P.rod new		✓		
GO		✓		
Stat old		✓		
P.rod old		✓		
WN 9		✓		
G18		✓		
WT 18		✓		
WN 18		✓		
Sample 10				
Sample 11				
Sample 12				
Ladder		✓		

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

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 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/μl] : 150
Lower Marker Concentration [ng/μl] : 0
Upper Marker Concentration [ng/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

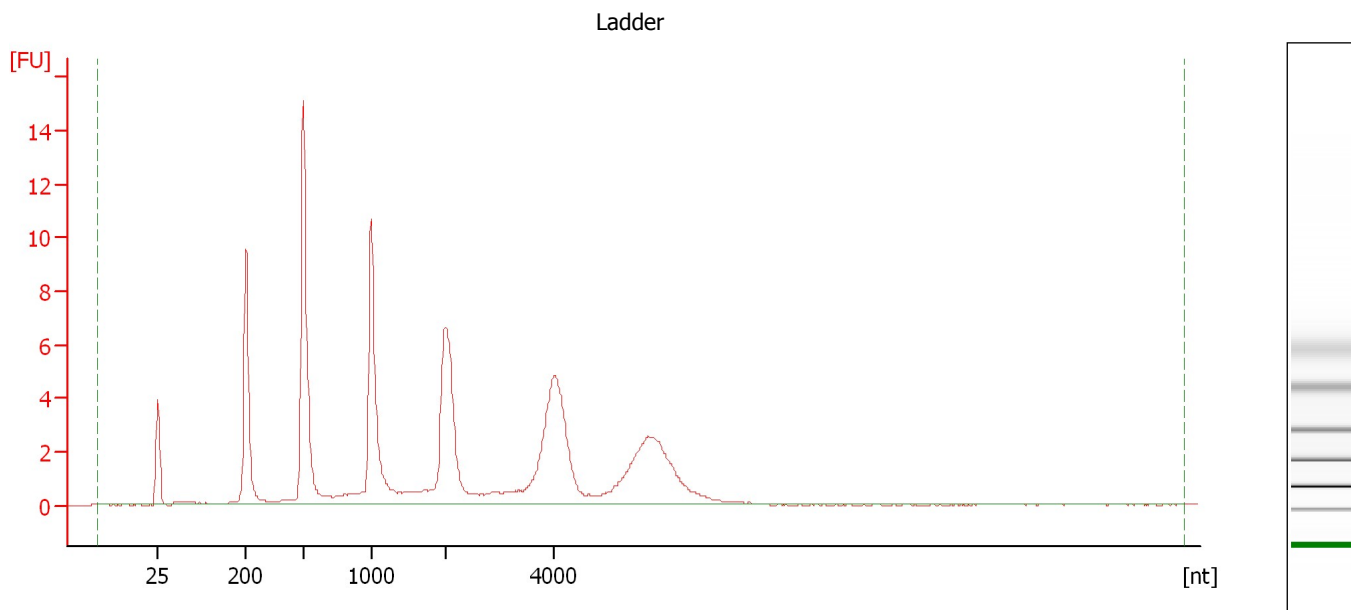
Ladder

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

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary



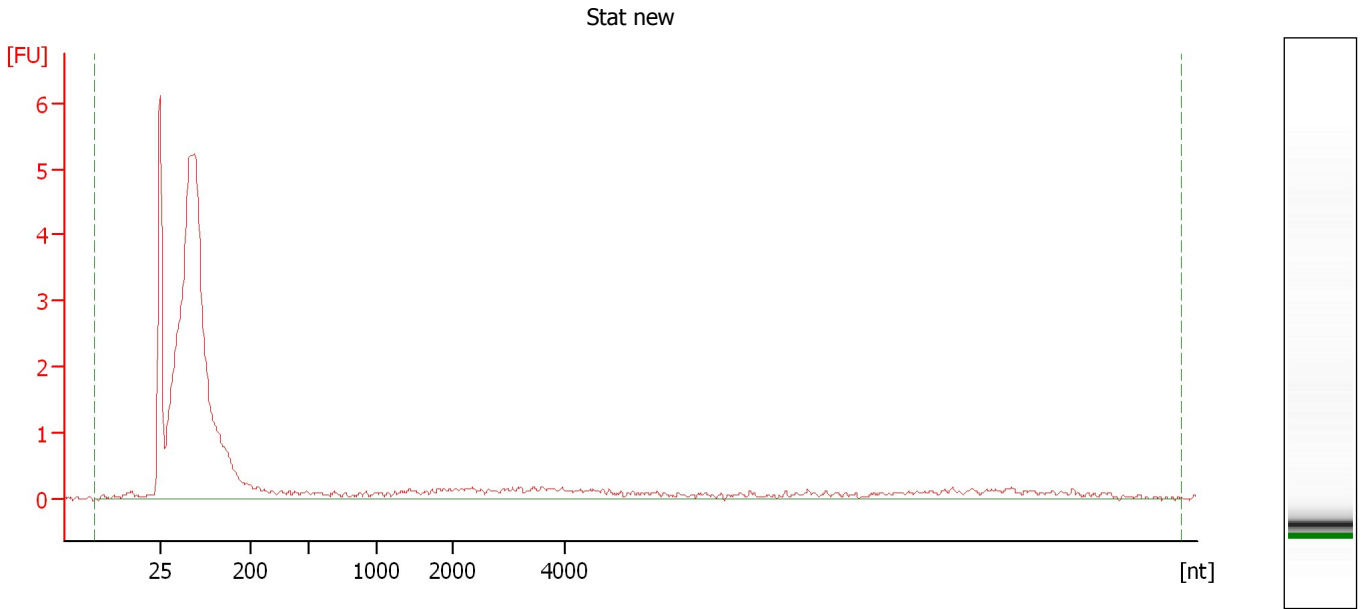
Overall Results for Ladder

RNA Area: 117.1 RNA Concentration: 150 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...



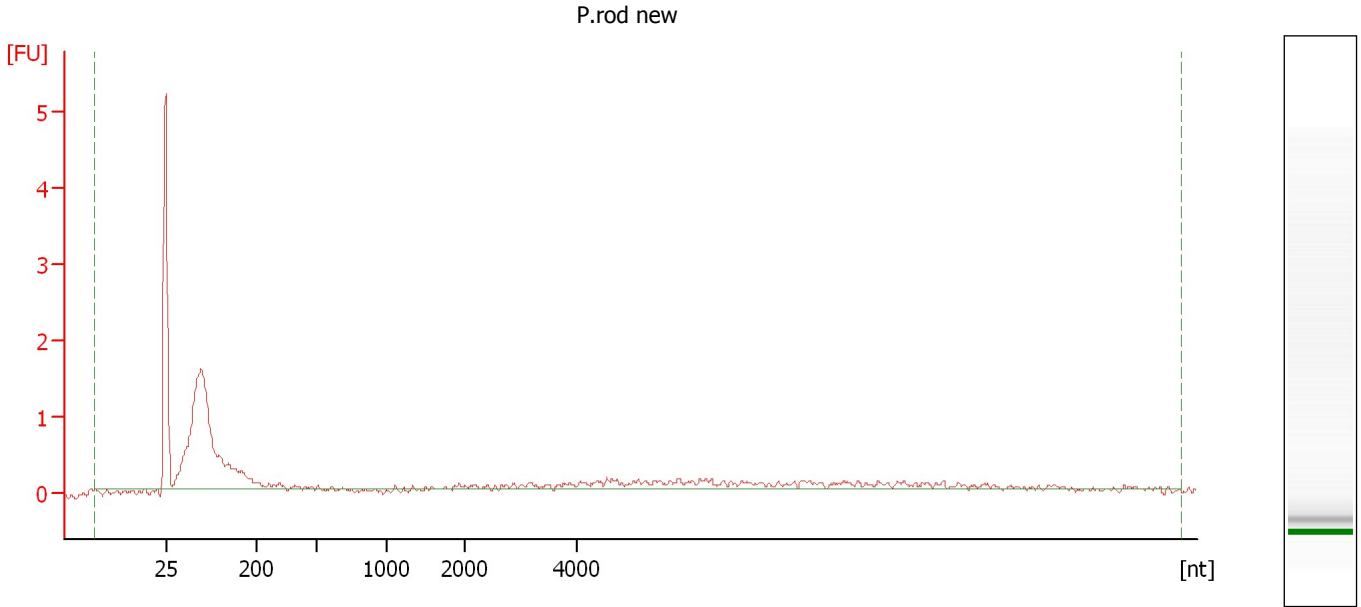
Overall Results for sample 1 : Stat new

RNA Area: 57.8 rRNA Contamination: 0.0 %
RNA Concentration: 74 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...



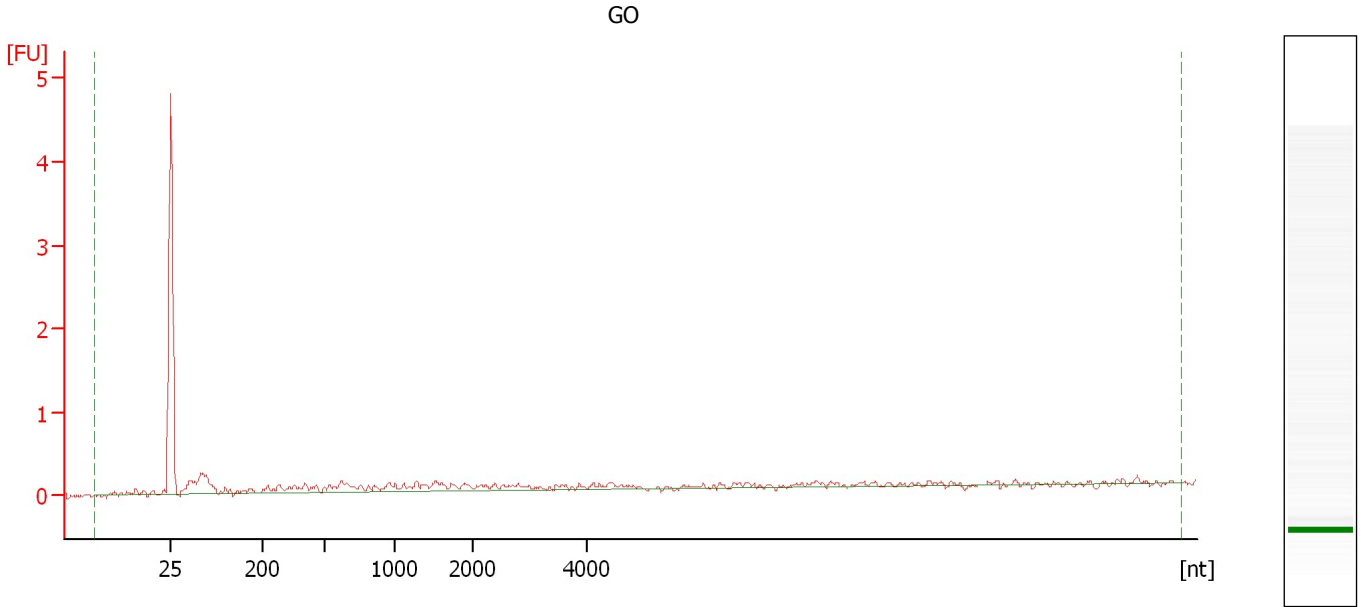
Overall Results for sample 2 : P.rod new

RNA Area:	17.7	rRNA Contamination:	0.0 %
RNA Concentration:	23 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...



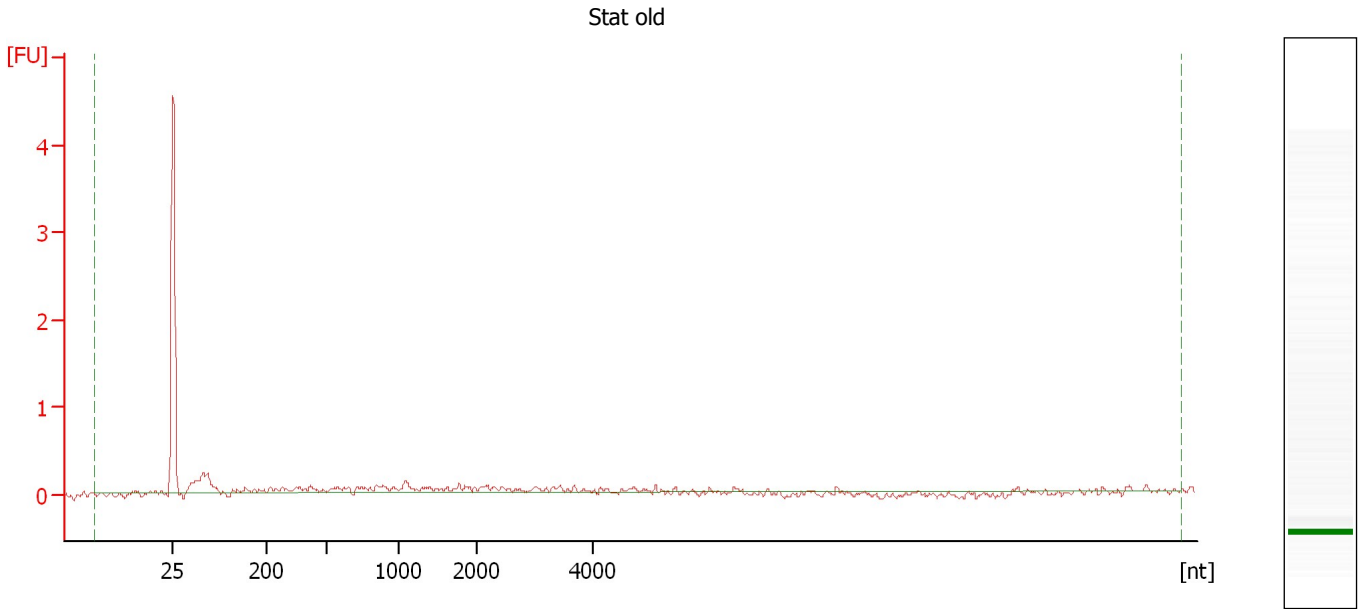
Overall Results for sample 3 : GO

RNA Area: 5.8 rRNA Contamination: 0.0 %
RNA Concentration: 7 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...



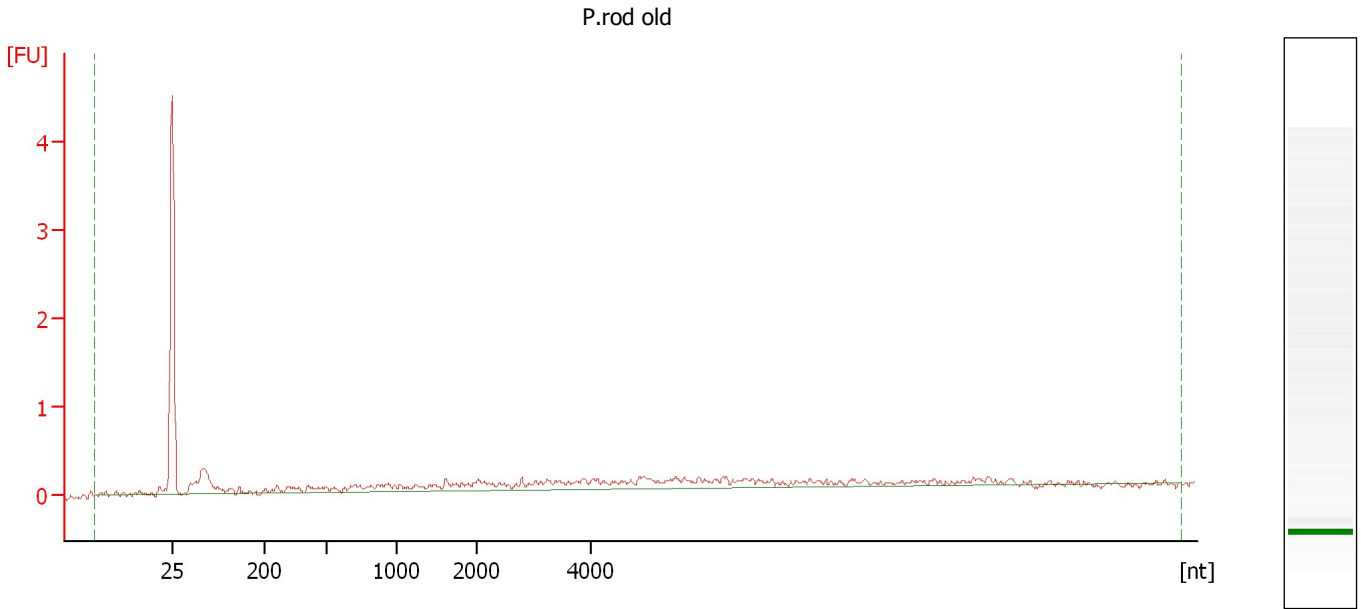
Overall Results for sample 4 : Stat old

RNA Area:	4.3	rRNA Contamination:	0.0 %
RNA Concentration:	6 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : P.rod old

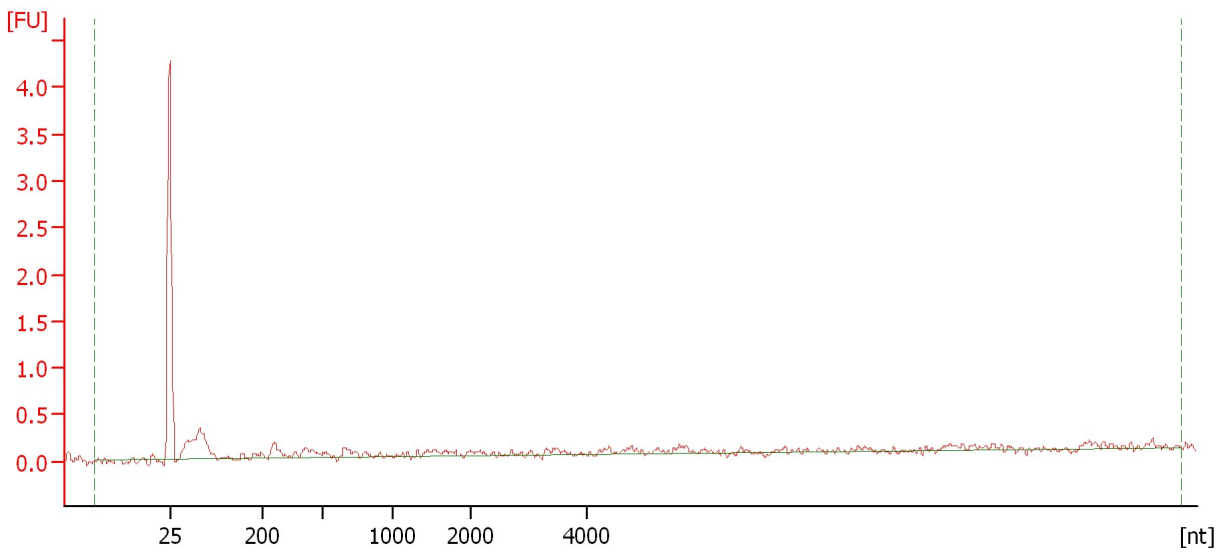
RNA Area: 9.0 rRNA Contamination: 0.0 %
RNA Concentration: 12 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...

WN 9



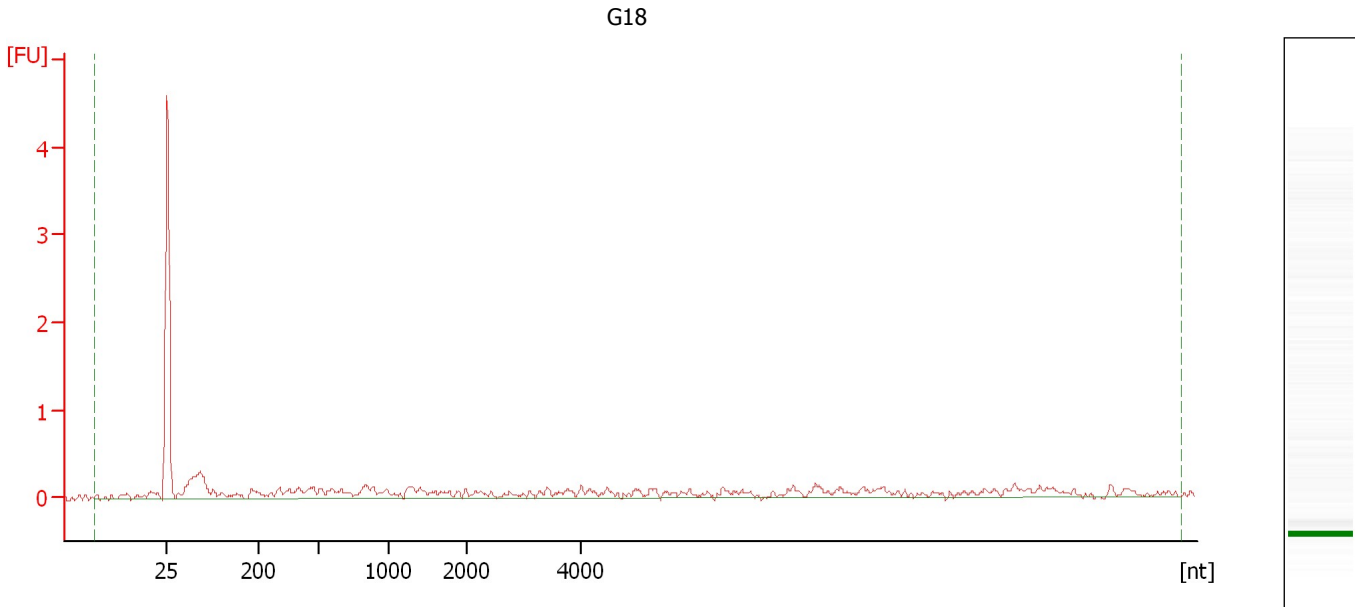
Overall Results for sample 6 : WN 9

RNA Area: 5.3 rRNA Contamination: 0.0 %
RNA Concentration: 7 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...



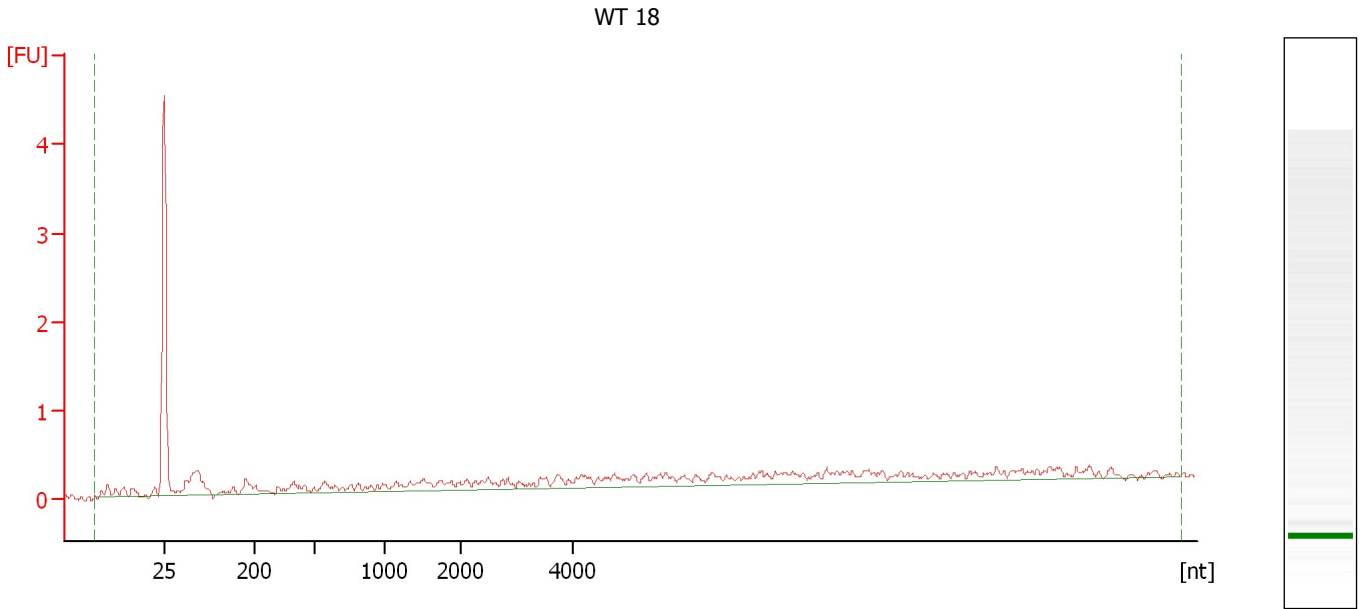
Overall Results for sample 7 : G18

RNA Area: 9.0 rRNA Contamination: 0.0 %
RNA Concentration: 11 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : WT 18

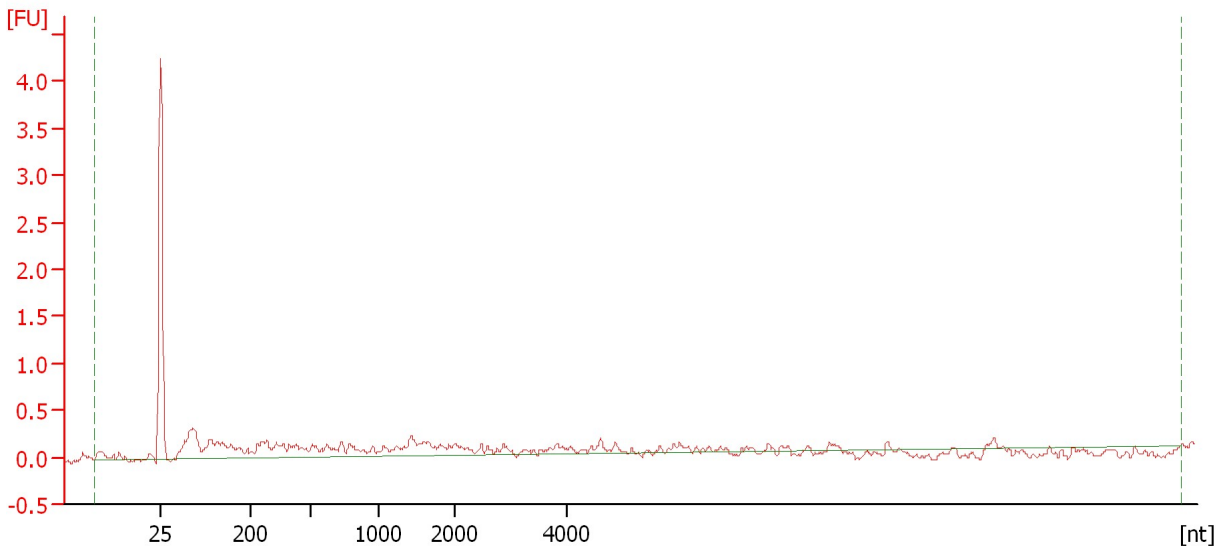
RNA Area:	11.6	rRNA Contamination:	0.0 %
RNA Concentration:	15 ng/μl		

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Electropherogram Summary Continued ...

WN 18



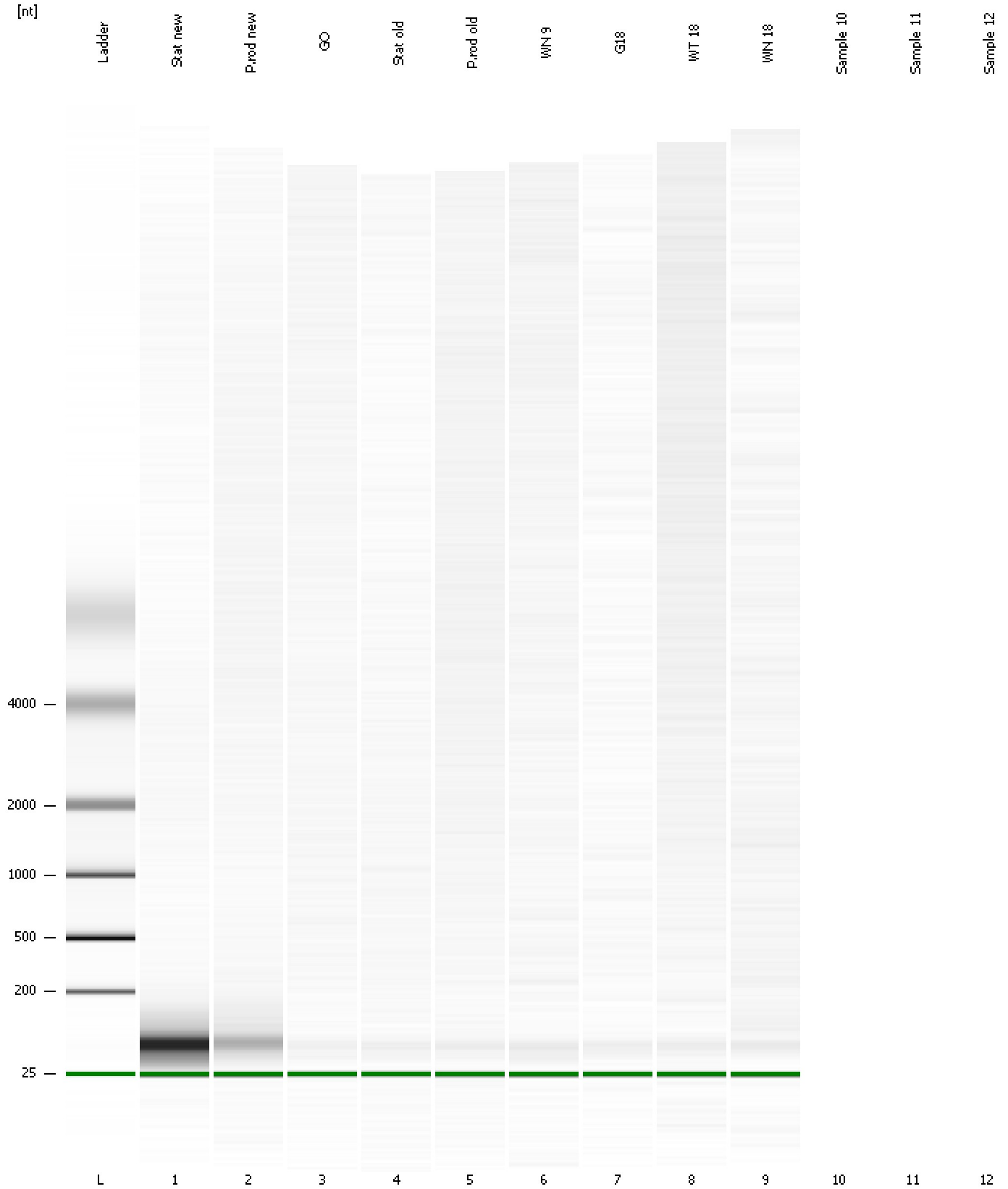
Overall Results for sample 9 : WN 18

RNA Area: 9.2 rRNA Contamination: 0.0 %
RNA Concentration: 12 ng/μl

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Gel Image



Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
Modified: 5/27/2016 2:28:07 PM

Invalid Samples

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Sample 12 has not been run, no results available.

Assay Class: mRNA Nano
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-05-27\2016-05-27_001.xad

Created: 5/27/2016 2:05:54 PM
 Modified: 5/27/2016 2:28:07 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 10)		Instrument	Run		5/27/2016 2:28:05 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\2016-05-27\2016-05-27_001.xad)		Instrument	Run		5/27/2016 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		5/27/2016 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/27/2016 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/27/2016 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		5/27/2016 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/27/2016 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/27/2016 2:05:59 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1