

Assay Class: mRNA Nano
Data Path: C:\... bioanalyzer\2100 expert\data\2016-04-18\2016-04-18_001.xad

Created: 4/18/2016 9:39:41 AM
Modified: 4/18/2016 10:06:43 AM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

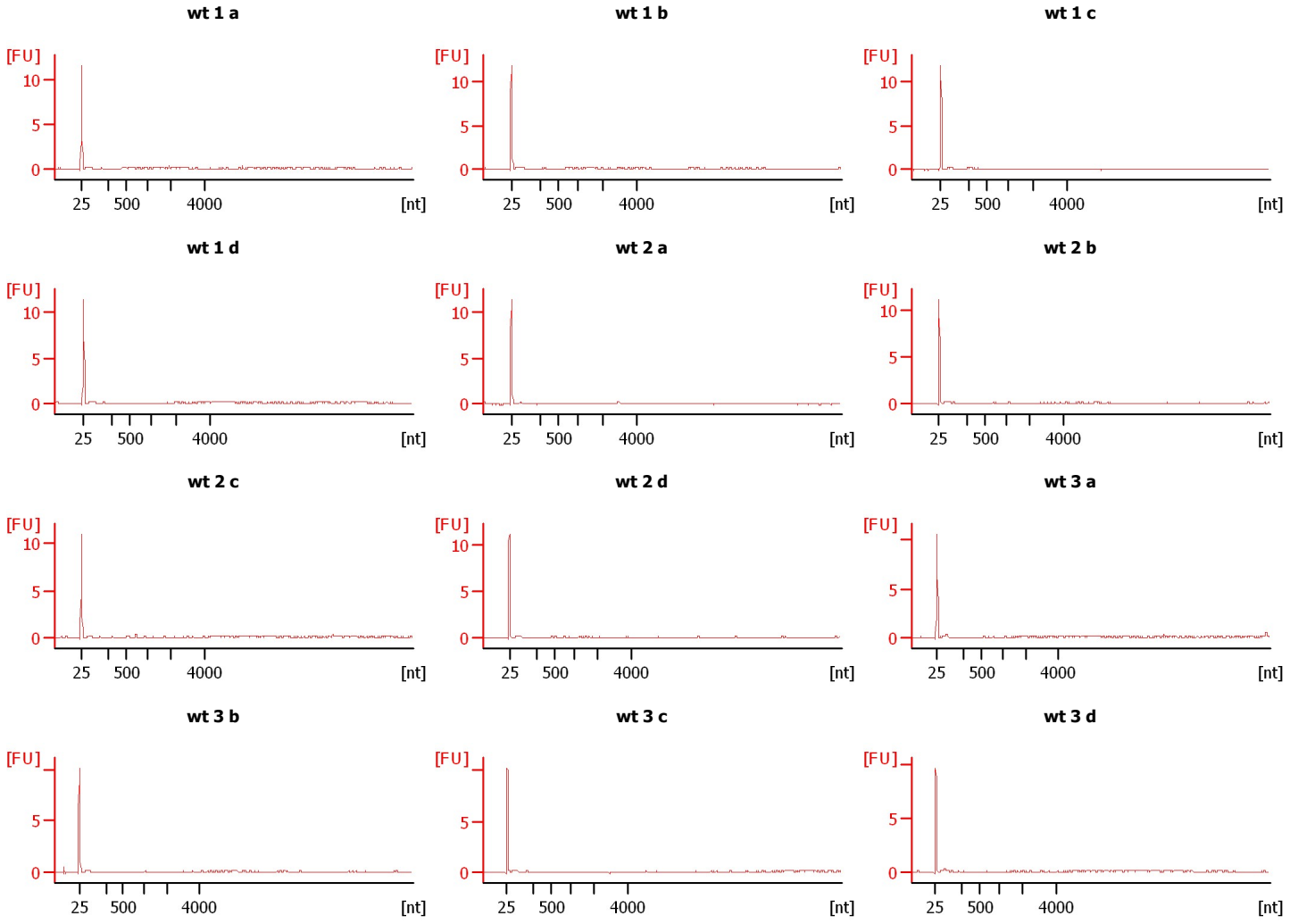
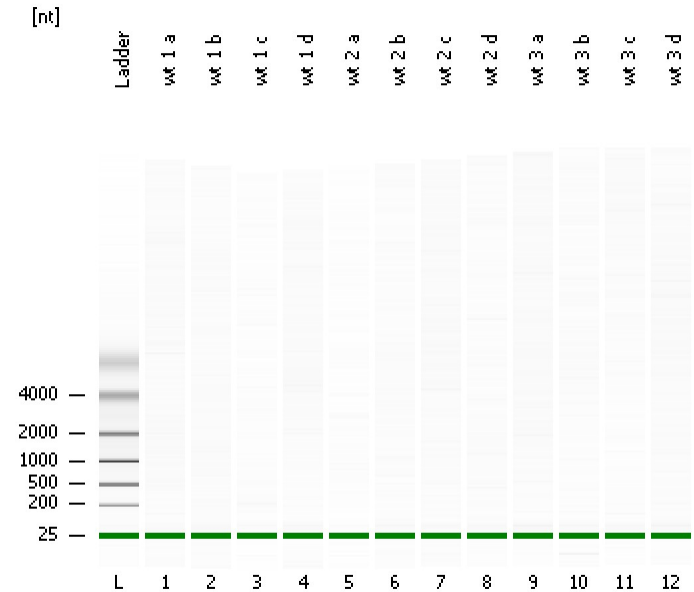
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
wt 1 a		✓		
wt 1 b		✓		
wt 1 c		✓		
wt 1 d		✓		
wt 2 a		✓		
wt 2 b		✓		
wt 2 c		✓		
wt 2 d		✓		
wt 3 a		✓		
wt 3 b		✓		
wt 3 c		✓		
wt 3 d		✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

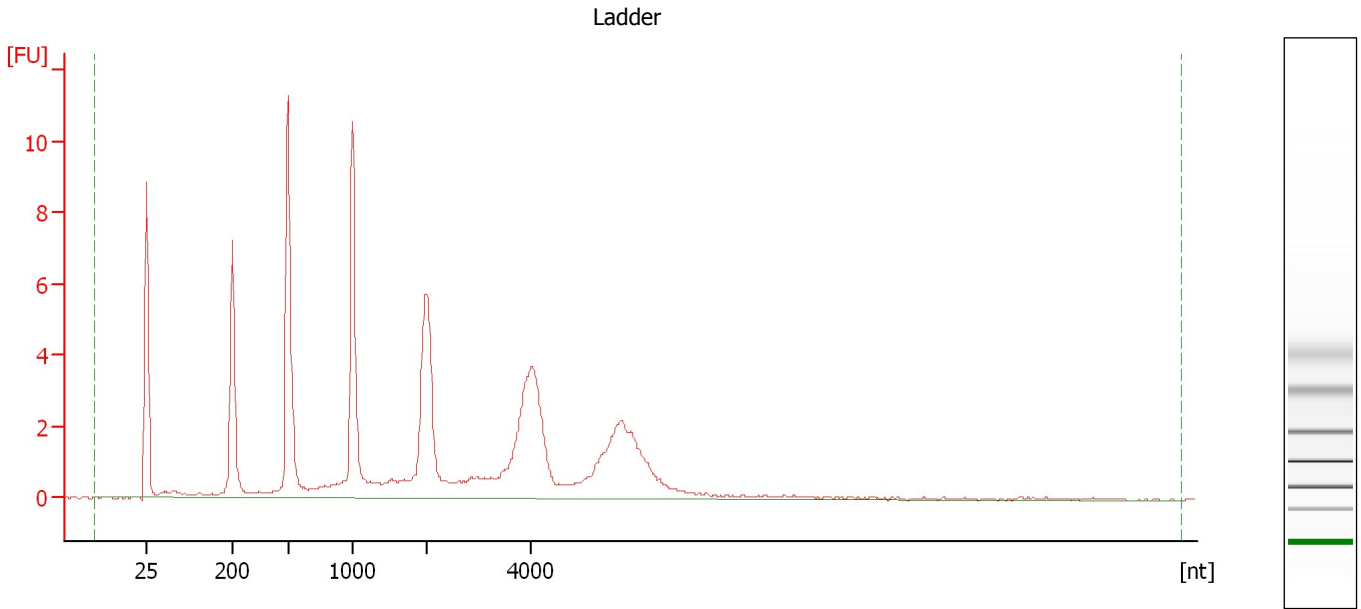
Ladder

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

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Electropherogram Summary



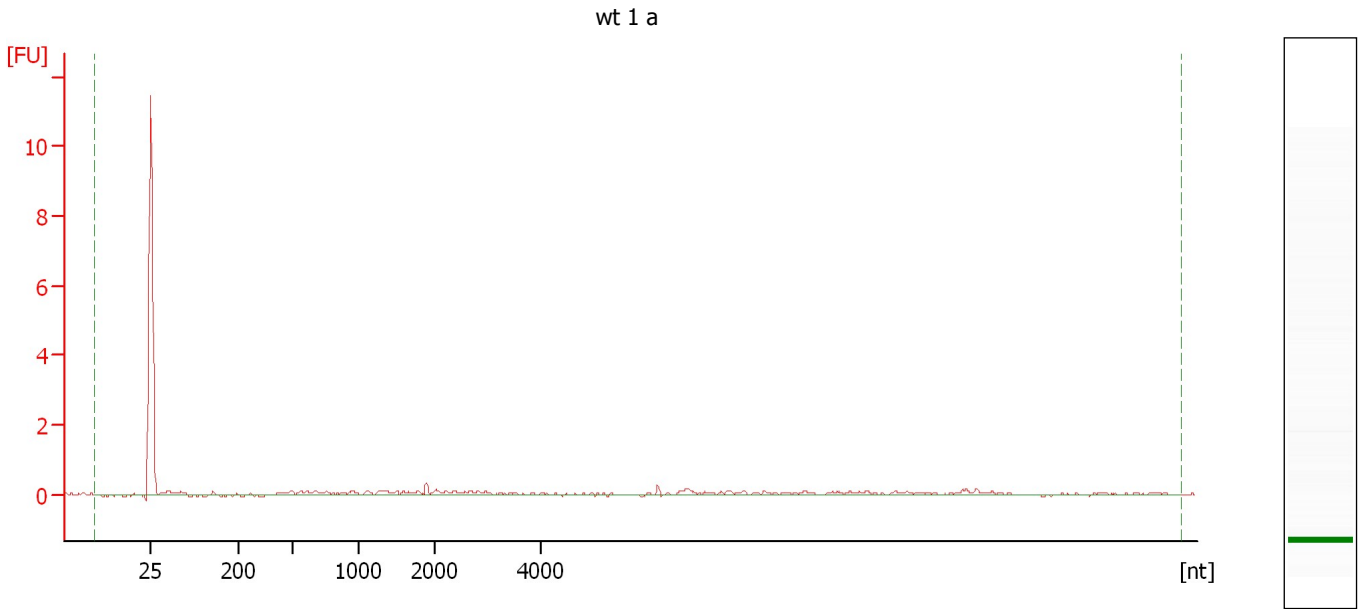
Overall Results for Ladder

RNA Area: 100.2 RNA Concentration: 150 ng/μl

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Electropherogram Summary Continued ...



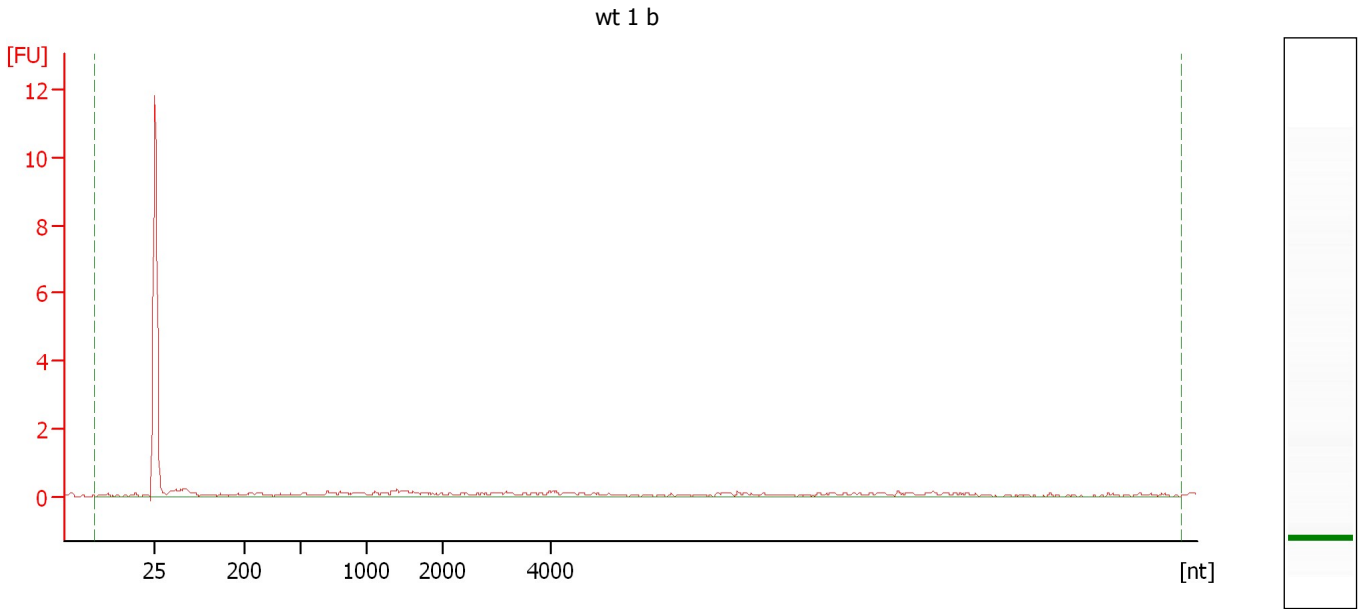
Overall Results for sample 1 : wt 1 a

RNA Area: 6.8 rRNA Contamination: 0.0 %
RNA Concentration: 10 ng/μl

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Electropherogram Summary Continued ...



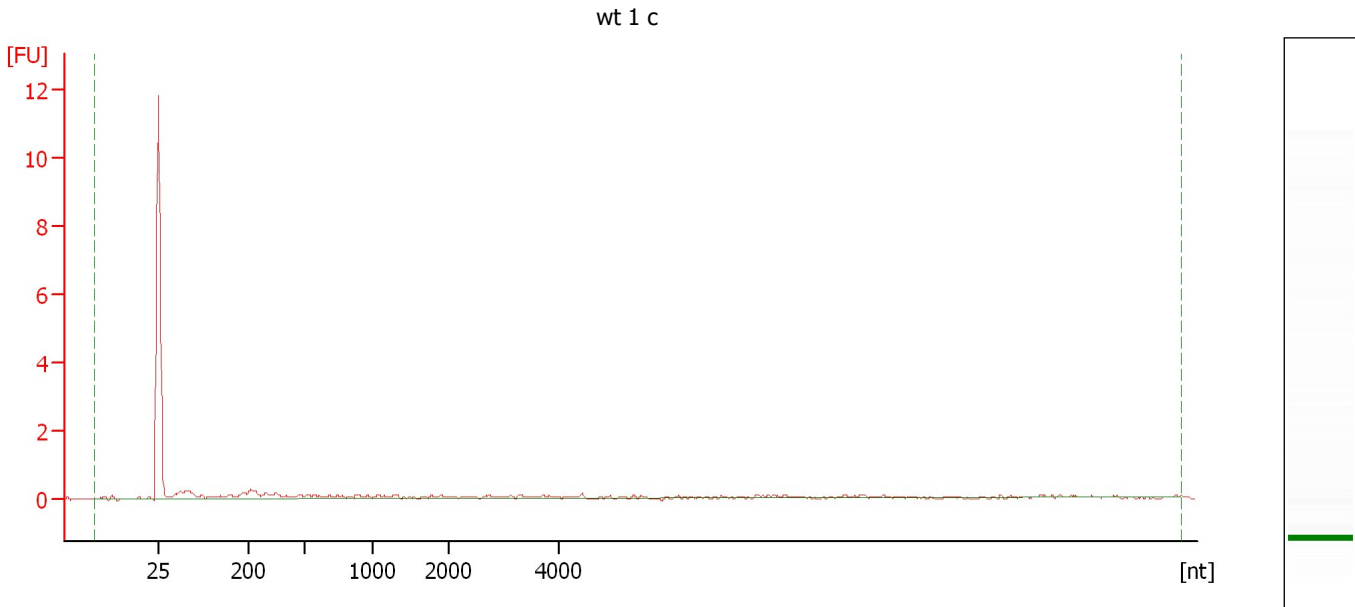
Overall Results for sample 2 : wt 1 b

RNA Area: 9.6 rRNA Contamination: 0.0 %
RNA Concentration: 14 ng/μl

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Electropherogram Summary Continued ...



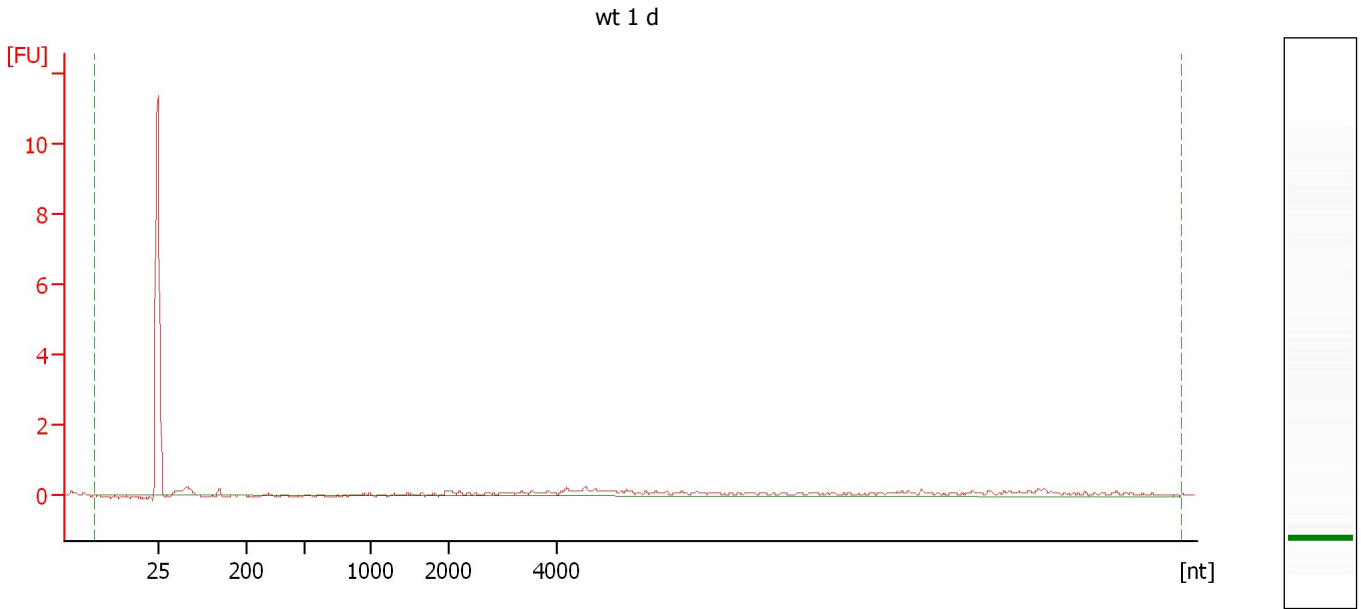
Overall Results for sample 3 : wt 1 c

RNA Area:	5.4	rRNA Contamination:	0.0 %
RNA Concentration:	8 ng/μl		

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Electropherogram Summary Continued ...



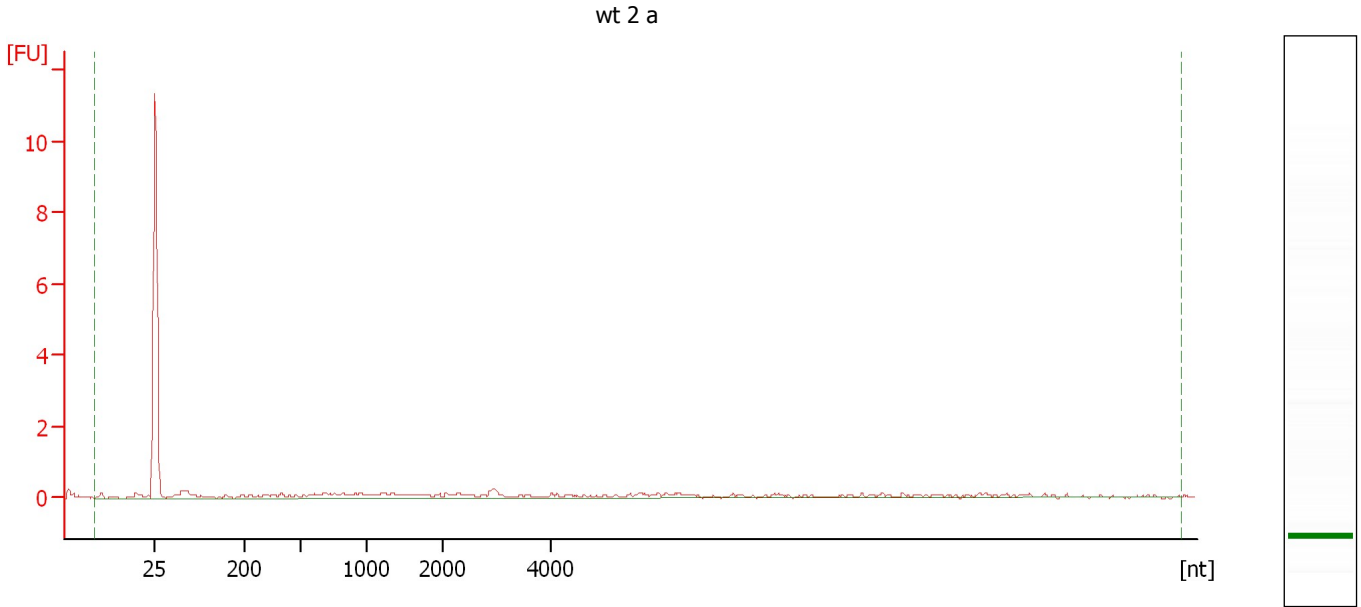
Overall Results for sample 4 : wt 1 d

RNA Area:	7.7	rRNA Contamination:	0.0 %
RNA Concentration:	12 ng/μl		

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Electropherogram Summary Continued ...



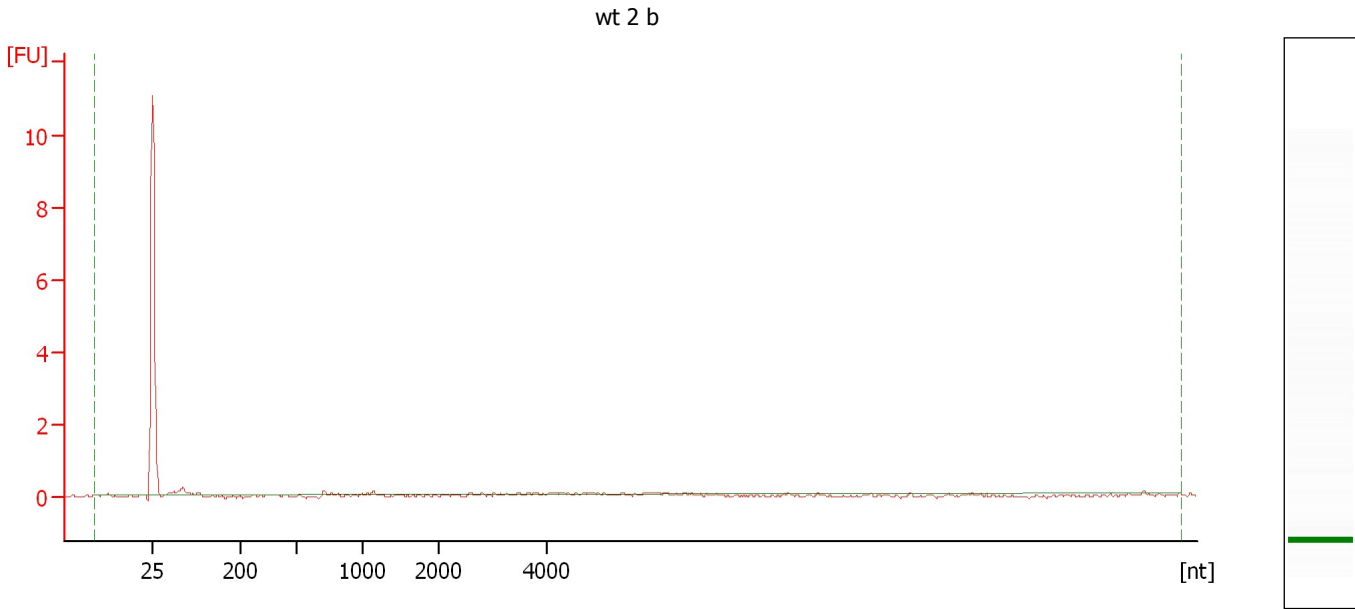
Overall Results for sample 5 : wt 2 a

RNA Area:	9.7	rRNA Contamination:	0.0 %
RNA Concentration:	15 ng/μl		

Assay Class: mRNA Nano
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Electropherogram Summary Continued ...



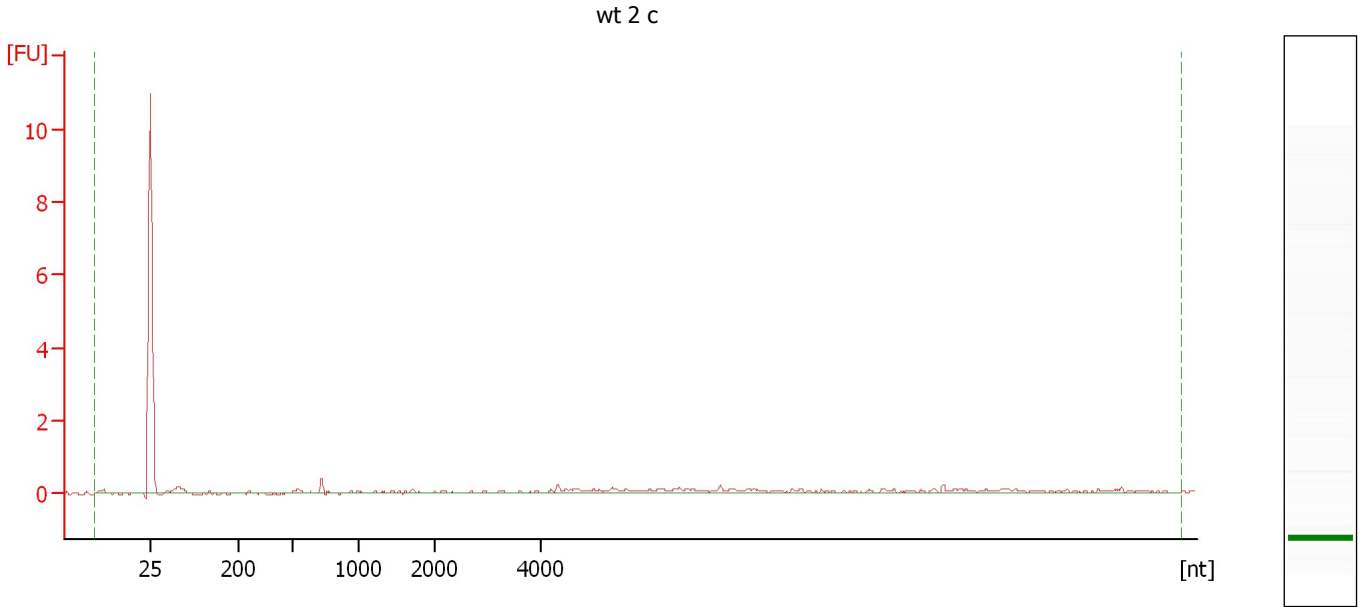
Overall Results for sample 6 : wt 2 b

RNA Area: 2.2 rRNA Contamination: 0.0 %
RNA Concentration: 3 ng/μl

Assay Class: mRNA Nano
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Electropherogram Summary Continued ...



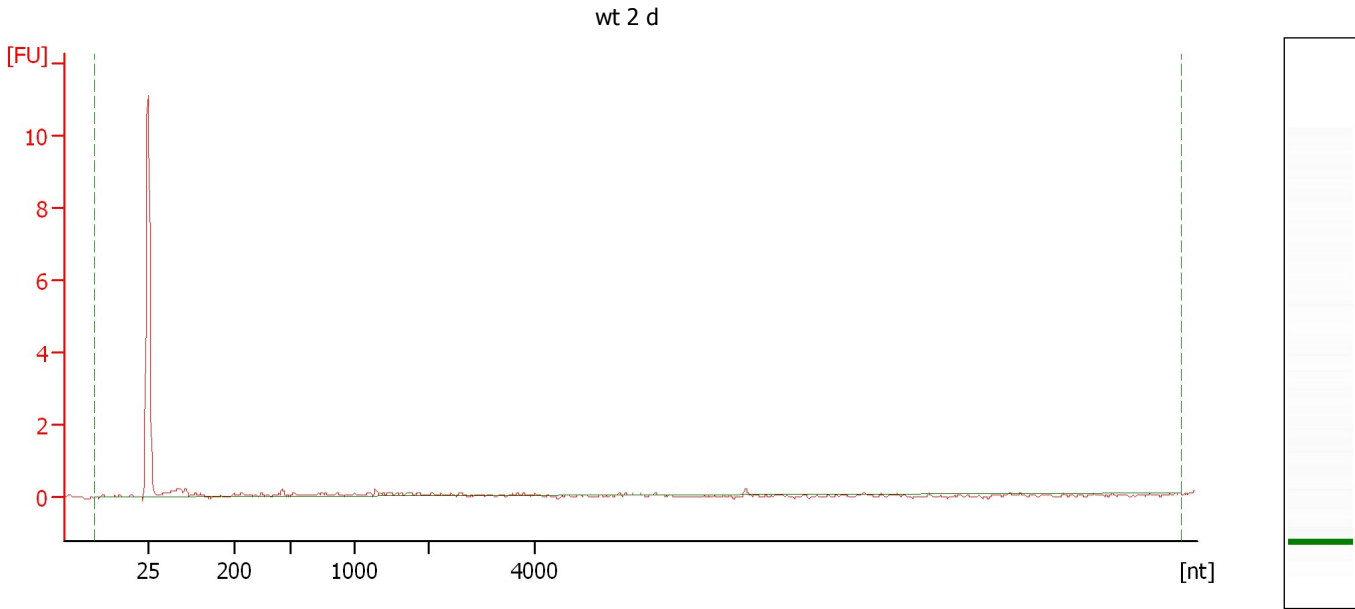
Overall Results for sample 7 : wt 2 c

RNA Area: 6.4 rRNA Contamination: 0.0 %
RNA Concentration: 10 ng/μl

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Electropherogram Summary Continued ...



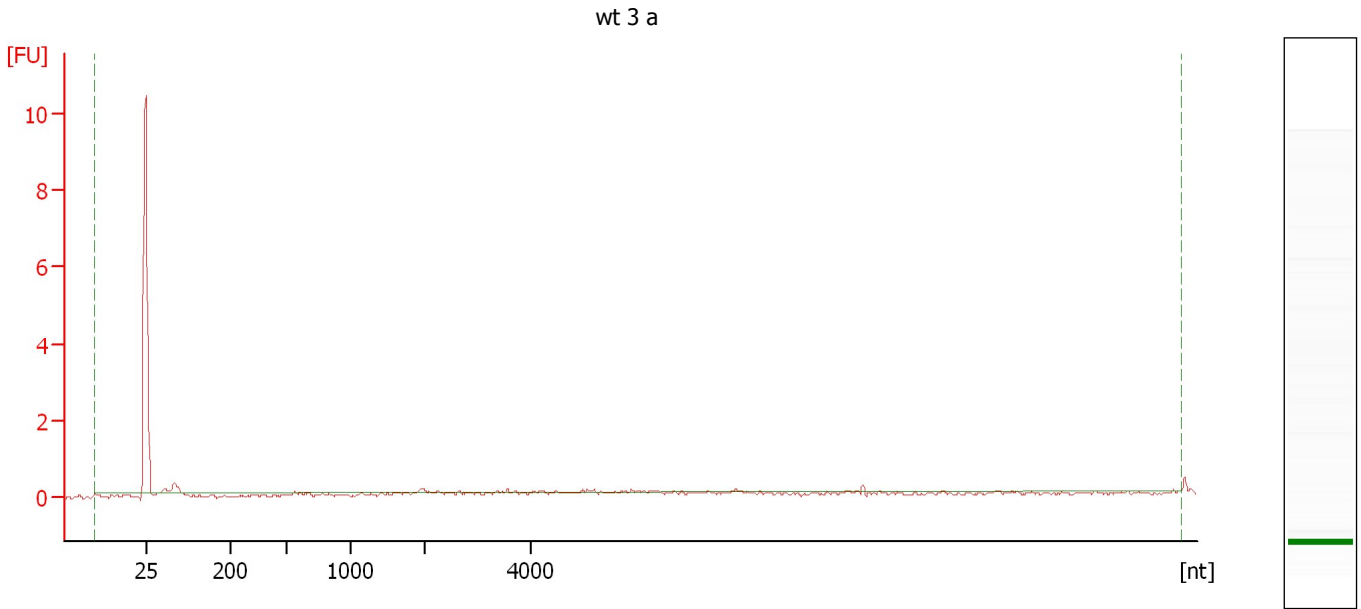
Overall Results for sample 8 : wt 2 d

RNA Area:	6.0	rRNA Contamination:	0.0 %
RNA Concentration:	9 ng/μl		

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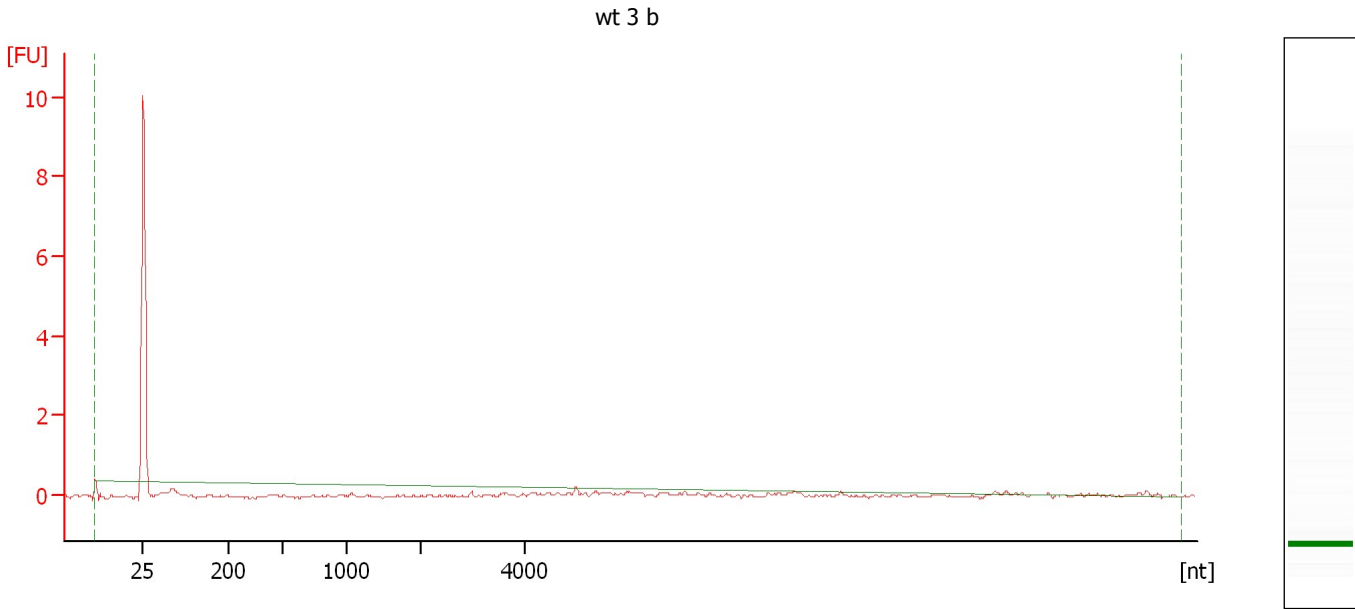
Overall Results for sample 9 : wt 3 a

RNA Area:	1.2	rRNA Contamination:	0.0 %
RNA Concentration:	2 ng/μl		

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Electropherogram Summary Continued ...



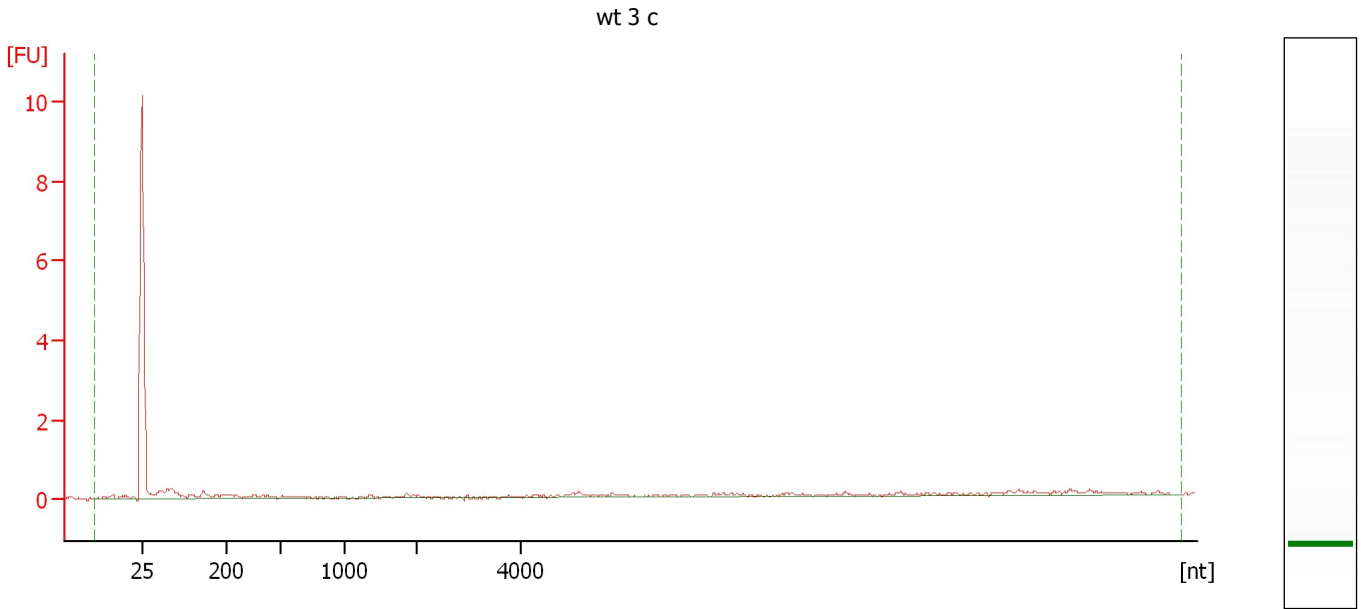
Overall Results for sample 10 : wt 3 b

RNA Area:	0.6	rRNA Contamination:	0.0 %
RNA Concentration:	1 ng/μl		

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Electropherogram Summary Continued ...



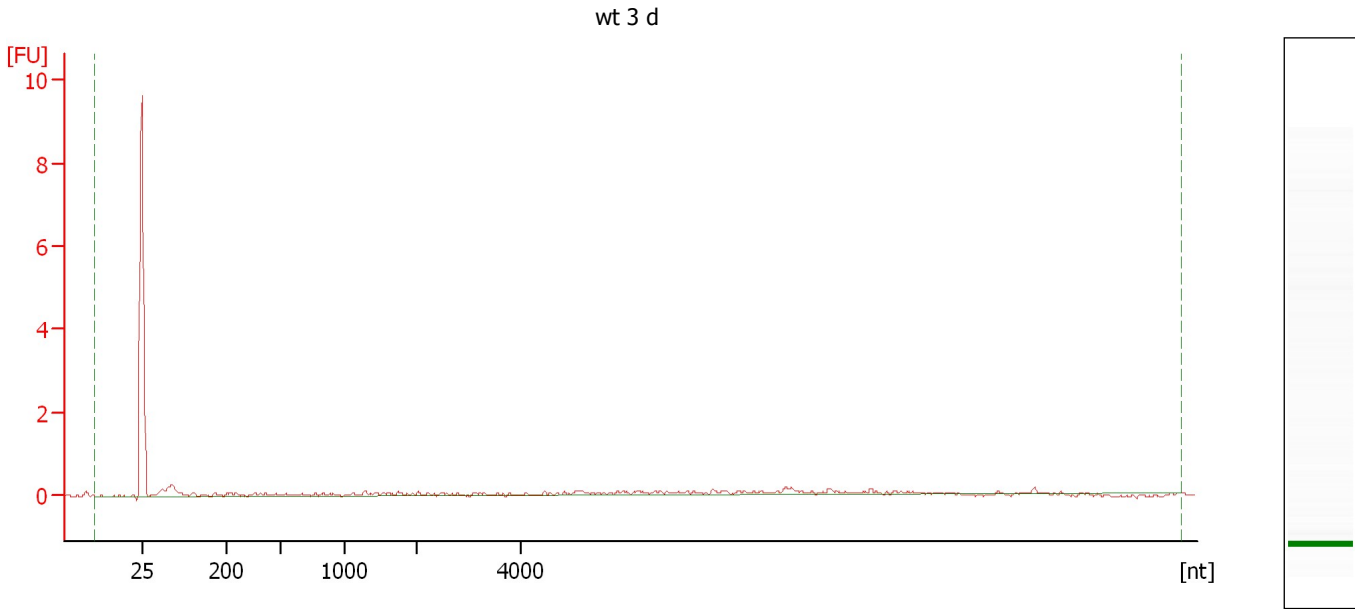
Overall Results for sample 11 : wt 3 c

RNA Area:	10.6	rRNA Contamination:	0.0 %
RNA Concentration:	16 ng/μl		

Assay Class: mRNA Nano
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Electropherogram Summary Continued ...



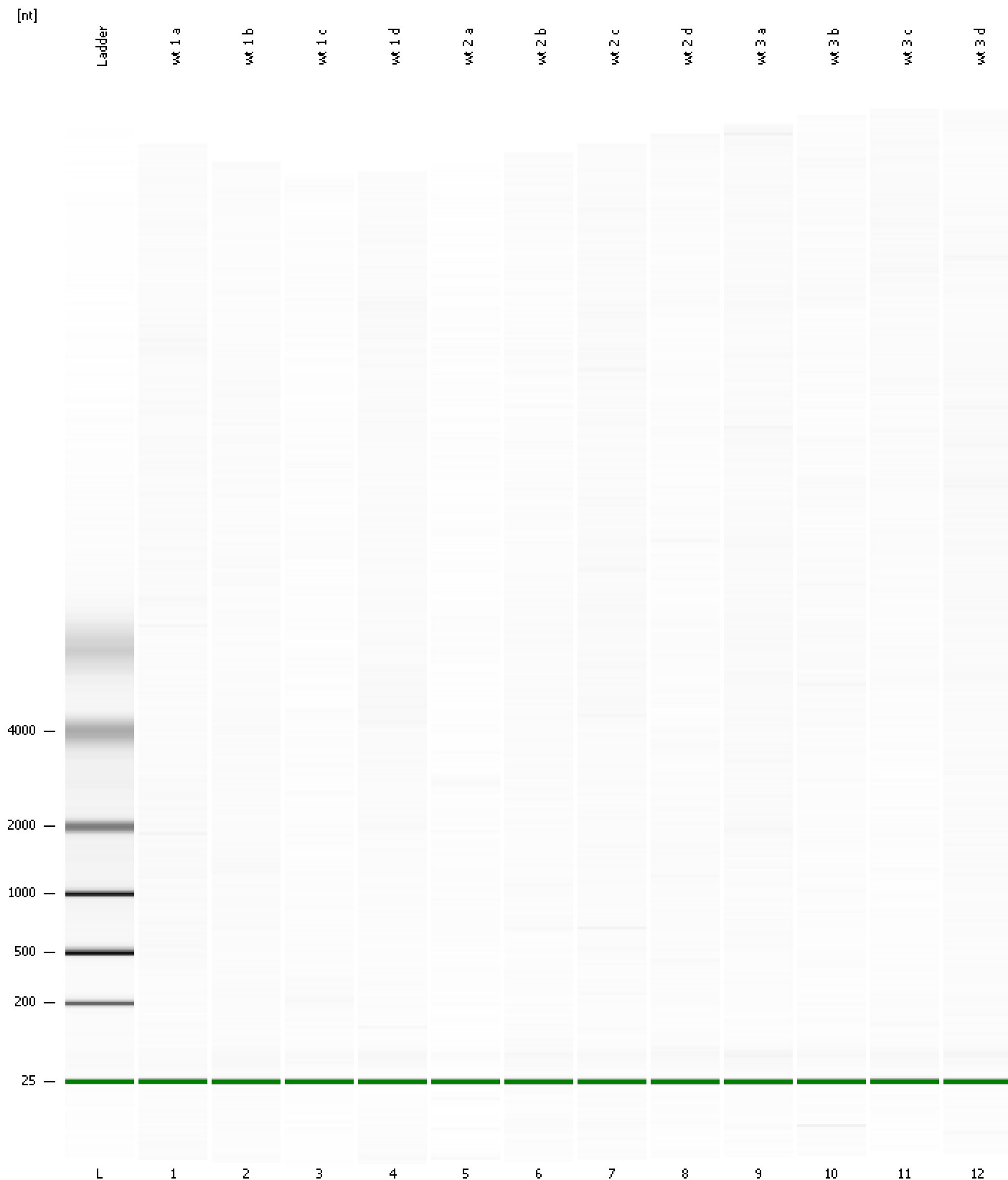
Overall Results for sample 12 : wt 3 d

RNA Area:	5.3	rRNA Contamination:	0.0 %
RNA Concentration:	8 ng/μl		

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Gel Image

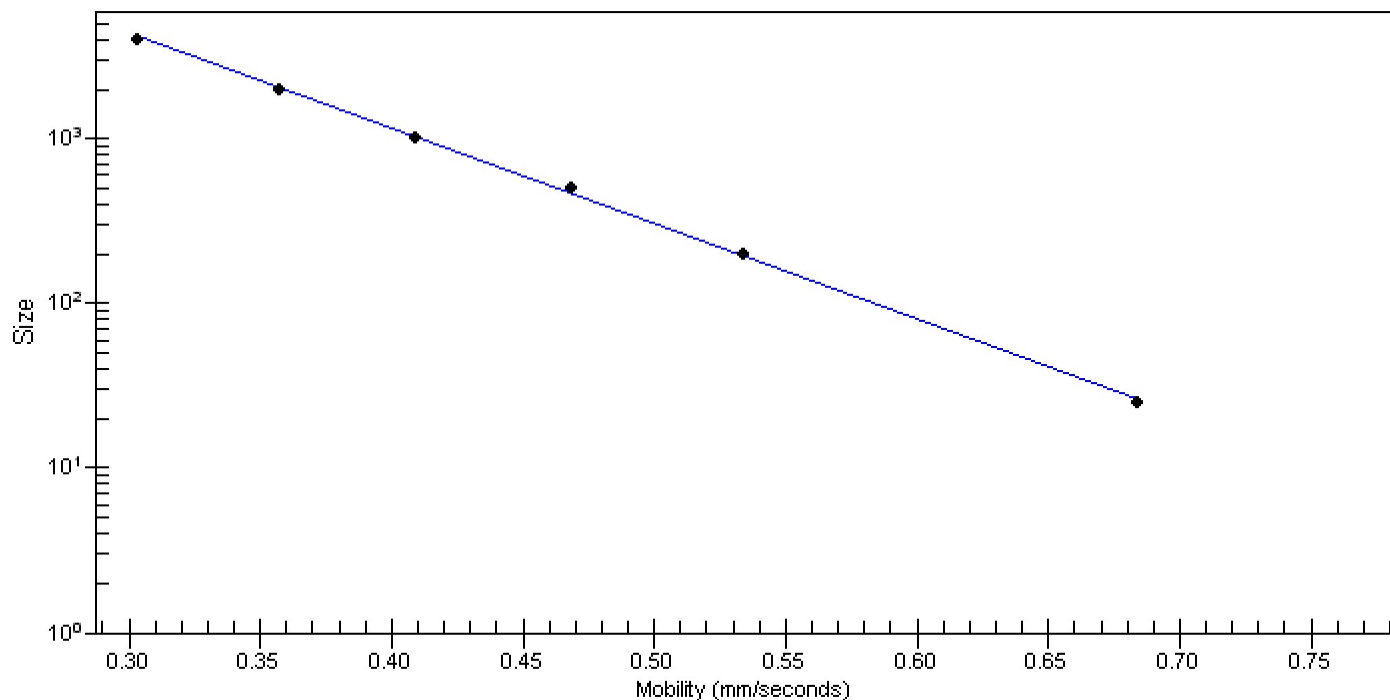


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Curves

Standard Curve



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Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 13)		Instrument	Run		4/18/2016 10:06:42 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\2016-04-18\2016-04-18_001.xad)		Instrument	Run		4/18/2016 9:39:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/18/2016 9:39:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/18/2016 9:39:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/18/2016 9:39:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/18/2016 9:39:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/18/2016 9:39:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/18/2016 9:39:46 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1