

Assay Class: mRNA Nano
Data Path: C:\...t\data\2016-06-14\2016-06-14_003_3B_7B_8A_8B_TotalRNAQC.xad

Created: 6/14/2016 11:48:35 AM
Modified: 6/14/2016 12:47:12 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

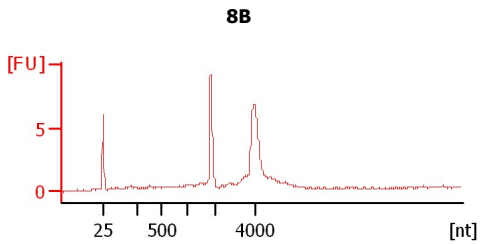
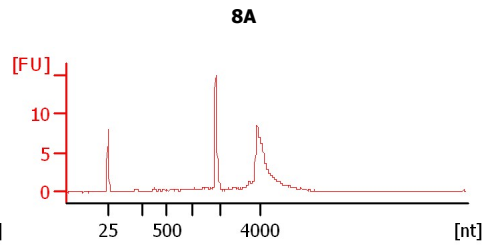
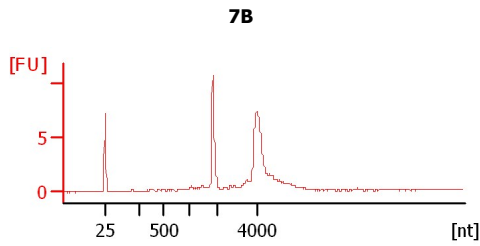
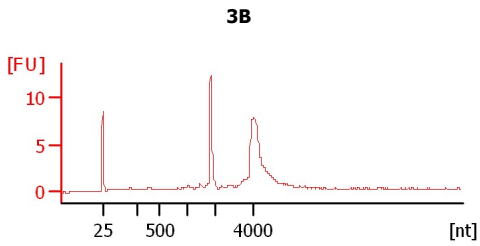
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Nano Series II.xsy

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
3B		✓		
7B		✓		
8A		✓		
8B		✓		
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/ 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

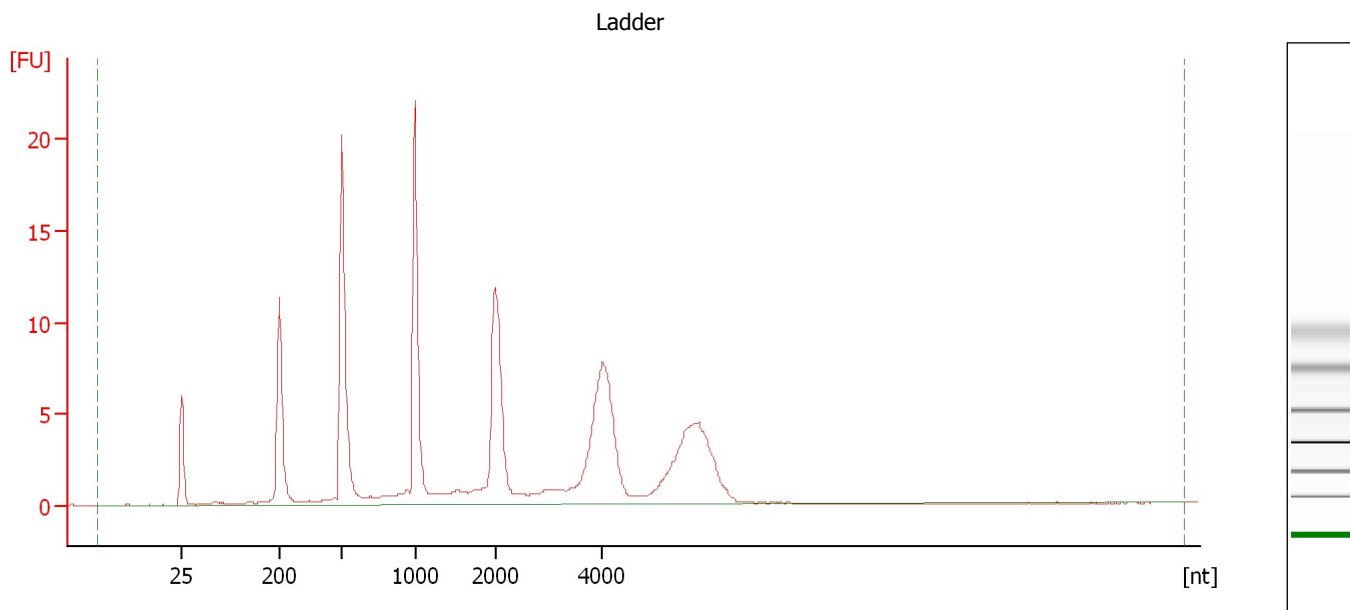
Ladder

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

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Electropherogram Summary



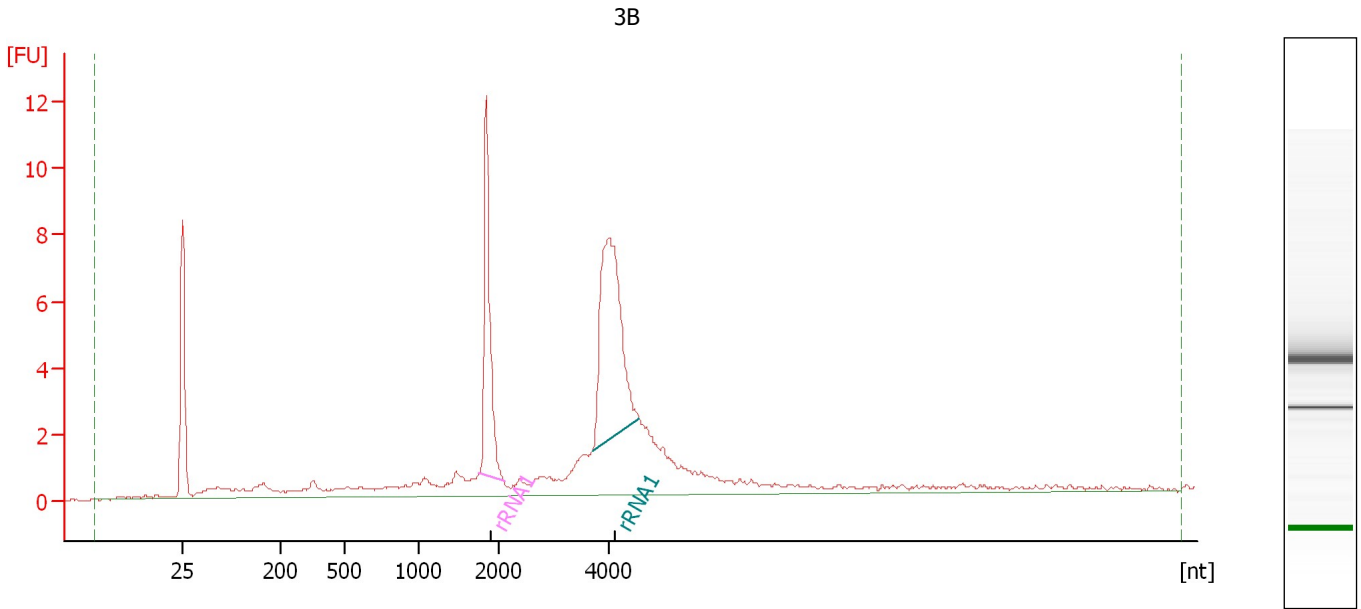
Overall Results for Ladder

RNA Area: 160.7 RNA Concentration: 150 ng/μl

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Electropherogram Summary Continued ...



Overall Results for sample 1 : 3B

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

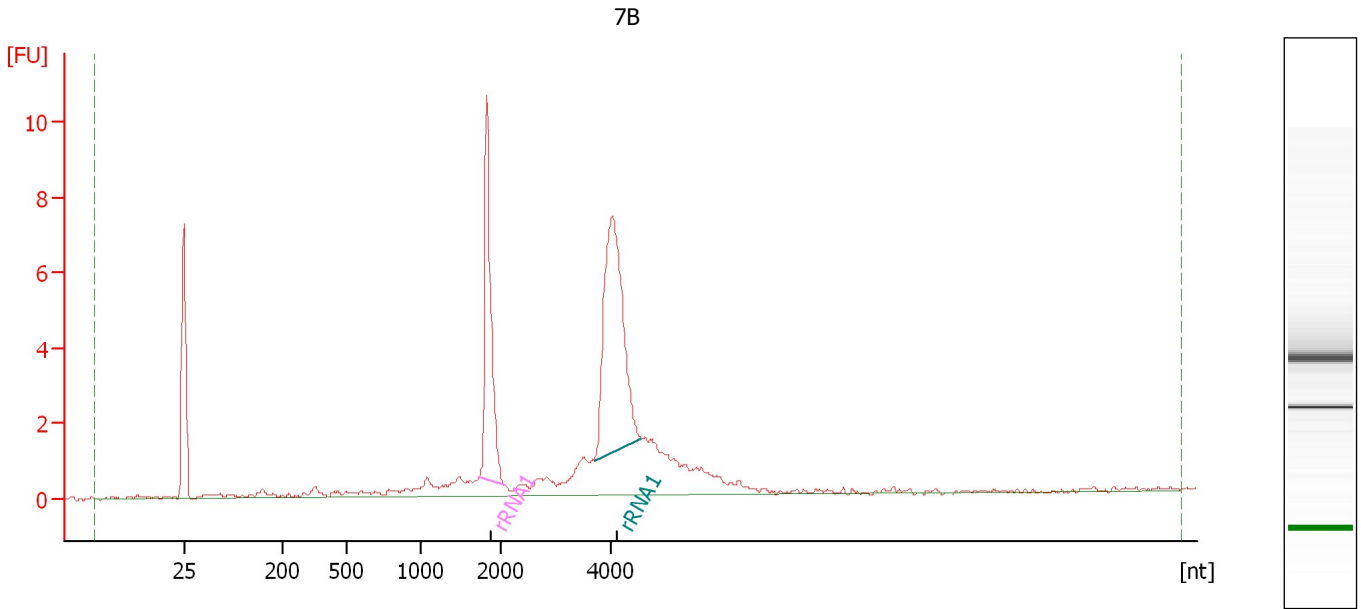
Fragment table for sample 1 : 3B

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

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 7B

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

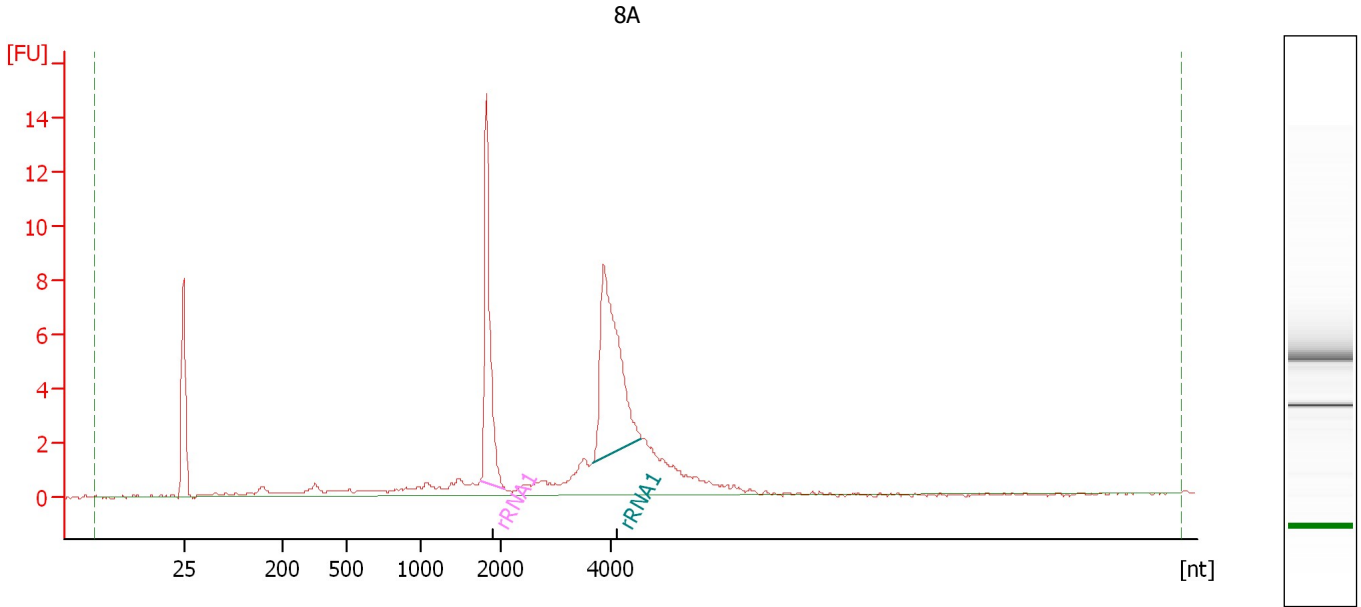
Fragment table for sample 2 : 7B

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

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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

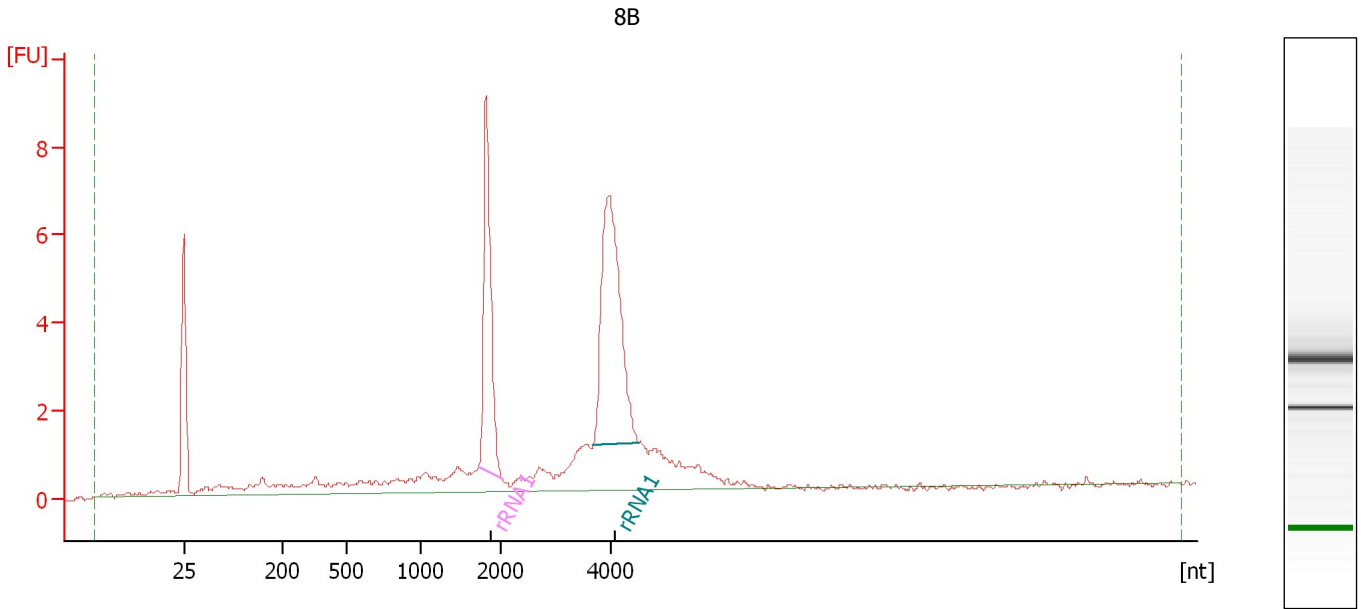
Fragment table for sample 3 : 8A

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

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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

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Gel Image

Assay Class: mRNA Nano
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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: 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