

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_004.xad

Created: 10/3/2014 1:24:32 PM
Modified: 10/3/2014 1:43:42 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

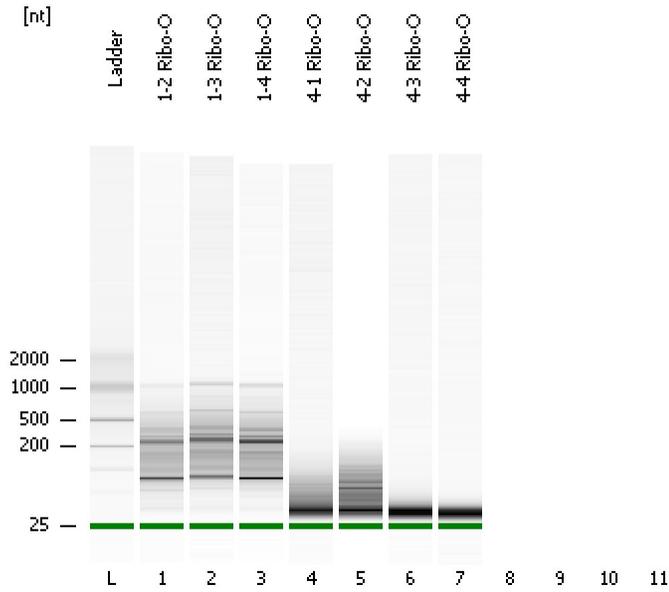
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

Assay Class: mRNA Pico
Version: 2.6
Assay Comments: mRNA Analysis pg sensitivity

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Chip Information:

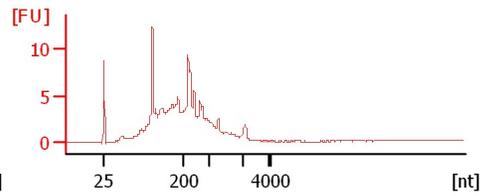
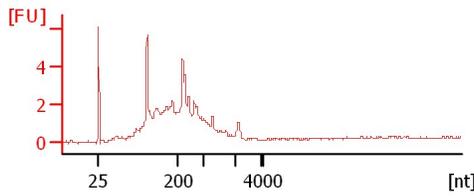
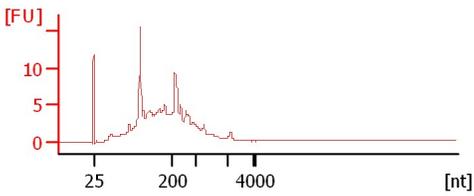
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



1-2 Ribo-O

1-3 Ribo-O

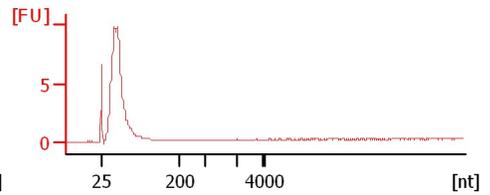
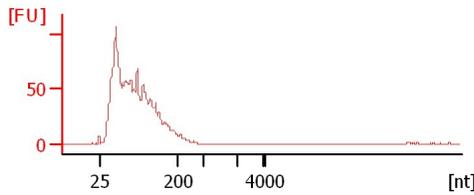
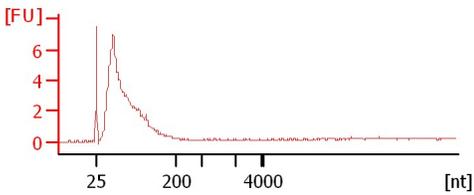
1-4 Ribo-O



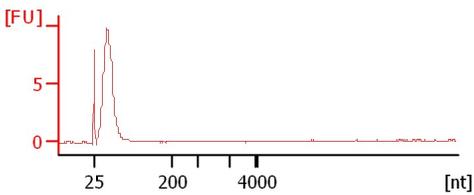
4-1 Ribo-O

4-2 Ribo-O

4-3 Ribo-O



4-4 Ribo-O



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1-2 Ribo-O		✓		
1-3 Ribo-O		✓		
1-4 Ribo-O		✓		
4-1 Ribo-O		✓		
4-2 Ribo-O		✓		
4-3 Ribo-O		✓		
4-4 Ribo-O		✓		

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.) : 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/μl] : 1000
Lower Marker Concentration [pg/μl] : 0
Upper Marker Concentration [pg/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

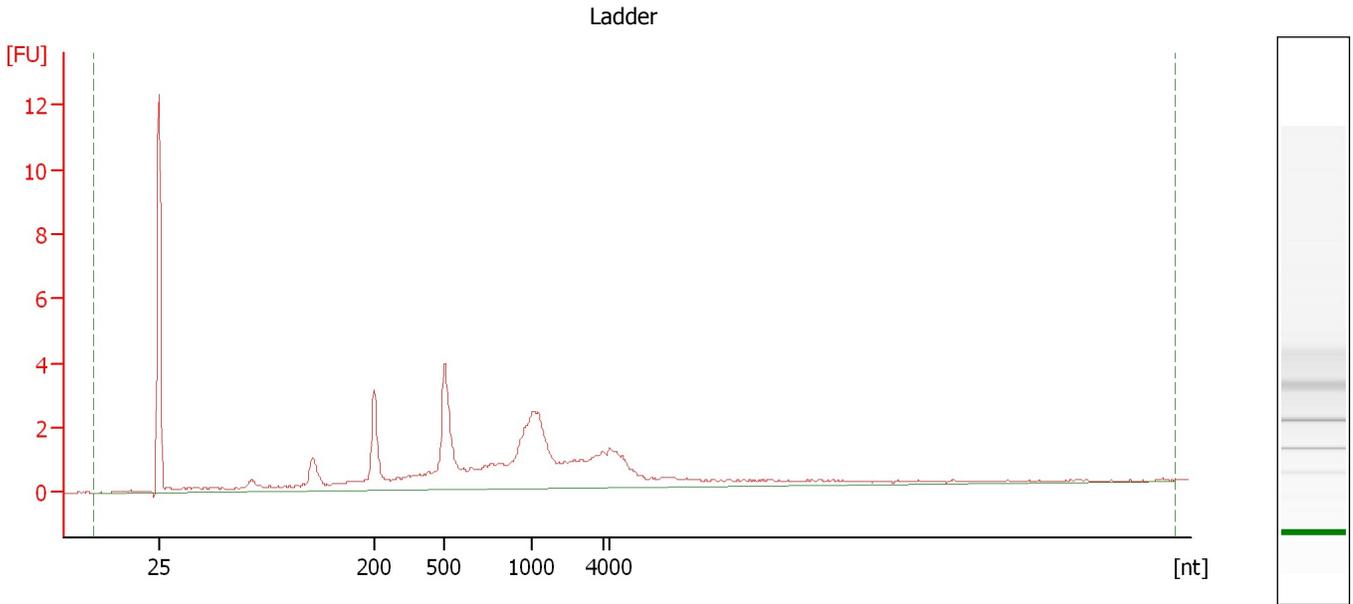
Ladder

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

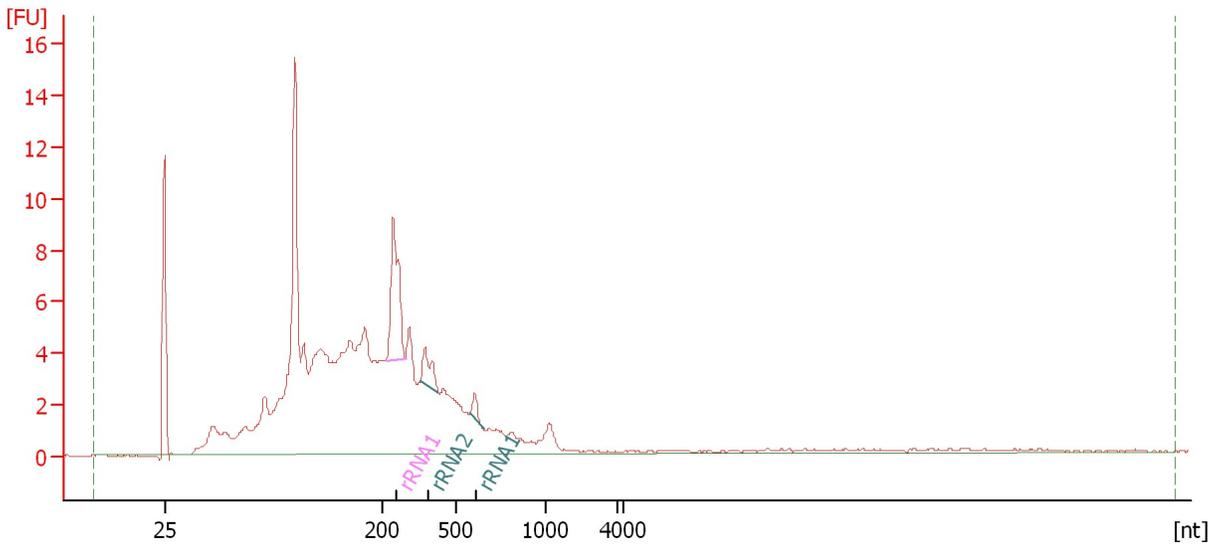
RNA Area: 52.8 RNA Concentration: 1,000 pg/μl

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Electropherogram Summary Continued ...

1-2 Ribo-O



Overall Results for sample 1 : 1-2 Ribo-O

RNA Area: 183.4 rRNA Contamination: 6.6 %
RNA Concentration: 3,471 pg/μl

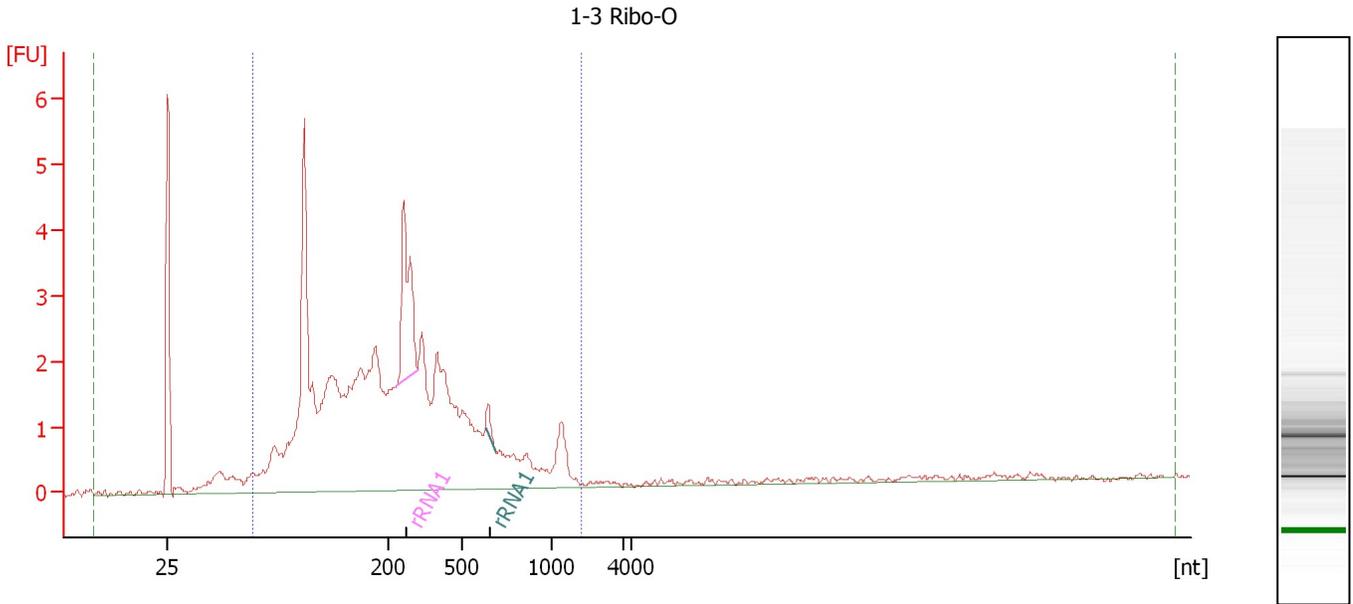
Fragment table for sample 1 : 1-2 Ribo-O

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	210	293	8.9	4.8
rRNA2	356	432	2.4	1.3
rRNA1	587	658	0.8	0.4

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Electropherogram Summary Continued ...



Overall Results for sample 2 : 1-3 Ribo-O

RNA Area: 79.7 rRNA Contamination: 6.2 %
 RNA Concentration: 1,508 pg/μl Corr. Area 1: 73.8

Fragment table for sample 2 : 1-3 Ribo-O

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	234	323	4.5	5.7
rRNA1	632	689	0.4	0.5

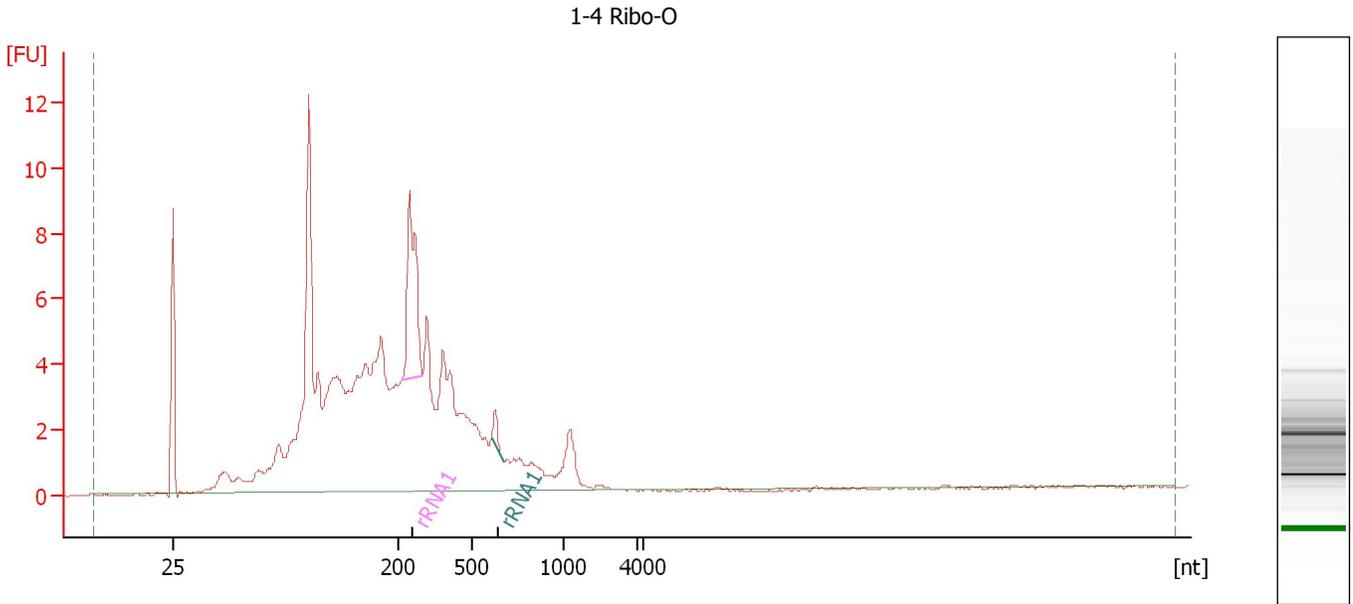
Region table for sample 2 : 1-3 Ribo-O

Name	From [nt]	To [nt]	Corr. Area	% of Total	Color
Region 1	93	1,400	73.8	93	Blue

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 1-4 Ribo-O

RNA Area: 157.9 rRNA Contamination: 6.5 %
RNA Concentration: 2,988 pg/μl

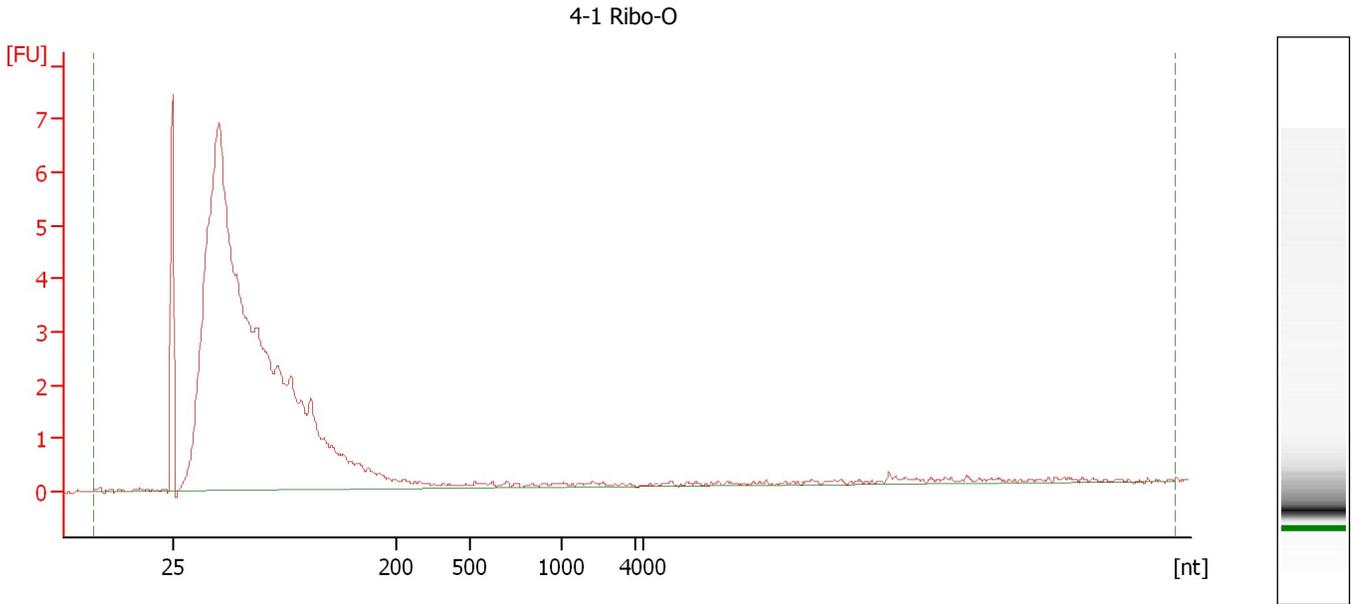
Fragment table for sample 3 : 1-4 Ribo-O

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	218	302	9.4	6.0
rRNA1	607	671	0.8	0.5

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Electropherogram Summary Continued ...



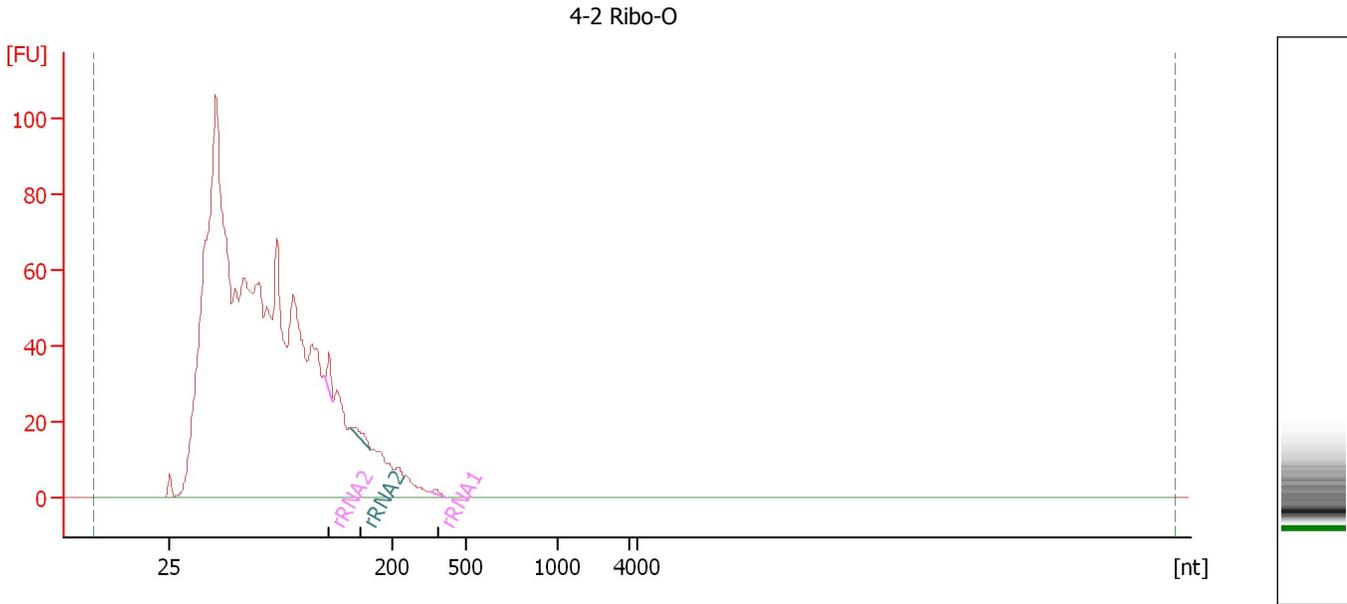
Overall Results for sample 4 : 4-1 Ribo-O

RNA Area:	109.9	rRNA Contamination:	0.0 %
RNA Concentration:	2,079 pg/ μ l		

Assay Class: mRNA Pico
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Electropherogram Summary Continued ...



Overall Results for sample 5 : 4-2 Ribo-O

RNA Area: 2,032.4 rRNA Contamination: 0.7 %
RNA Concentration: 38,463 pg/μl

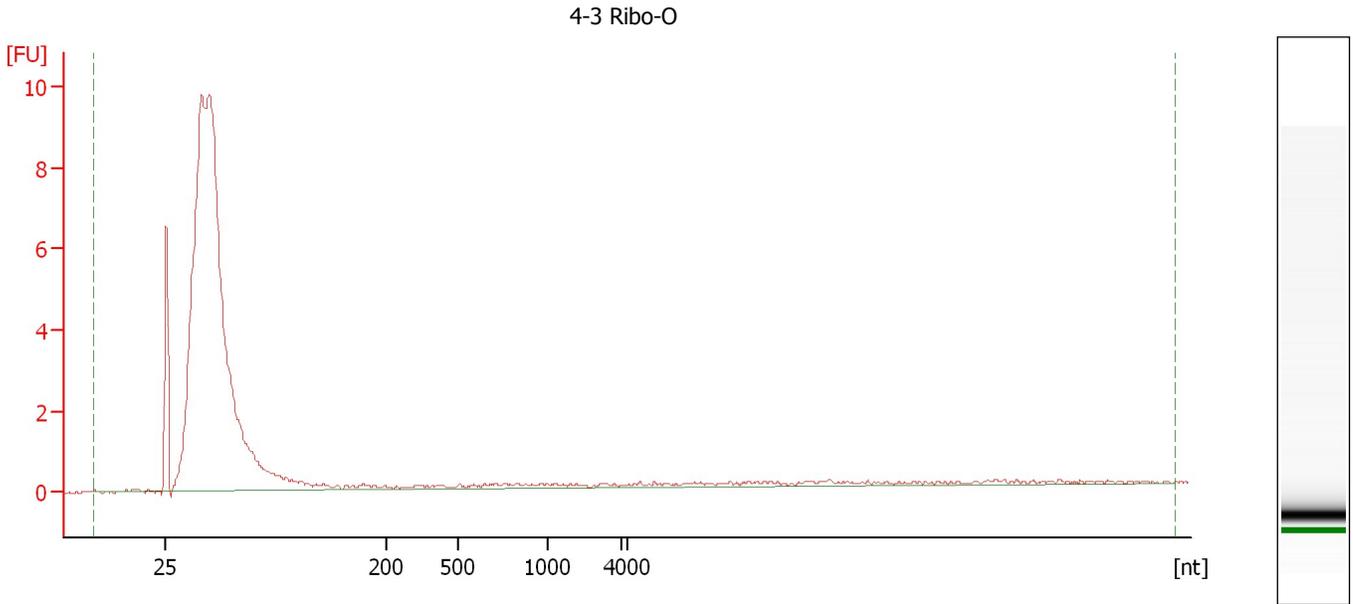
Fragment table for sample 5 : 4-2 Ribo-O

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	146	153	8.2	0.4
rRNA2	166	182	5.1	0.3
rRNA1	351	423	1.5	0.1

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Electropherogram Summary Continued ...



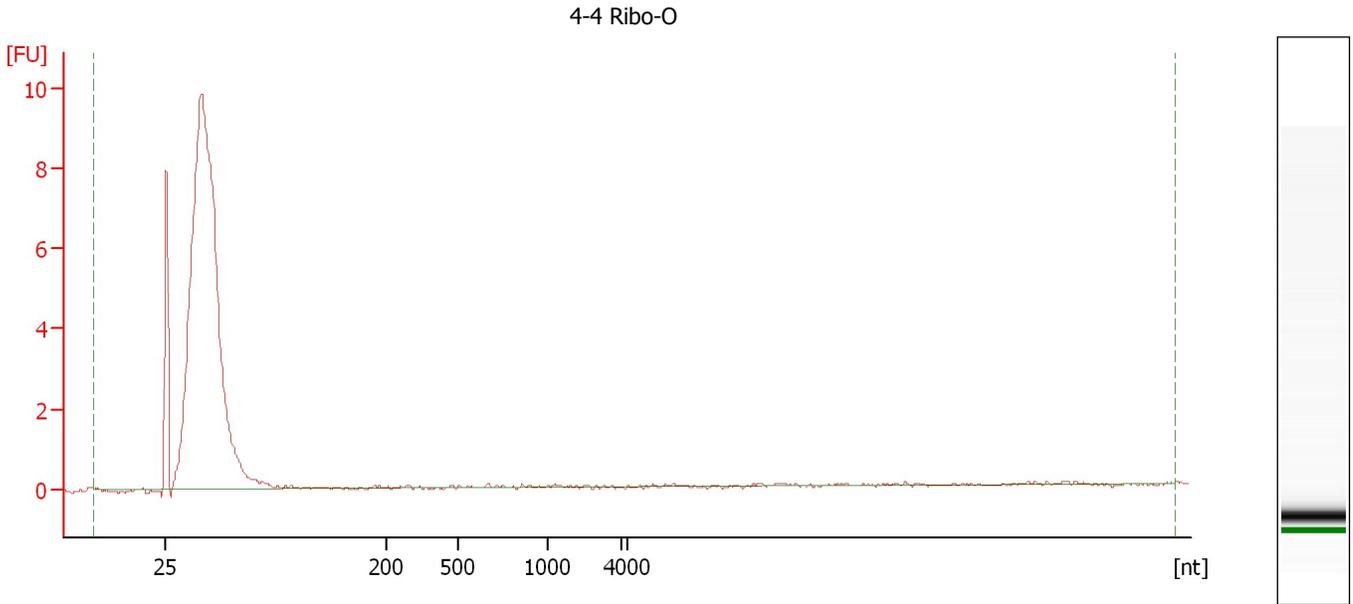
Overall Results for sample 6 : 4-3 Ribo-O

RNA Area:	102.2	rRNA Contamination:	0.0 %
RNA Concentration:	1,934 pg/ μ l		

Assay Class: mRNA Pico
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Electropherogram Summary Continued ...



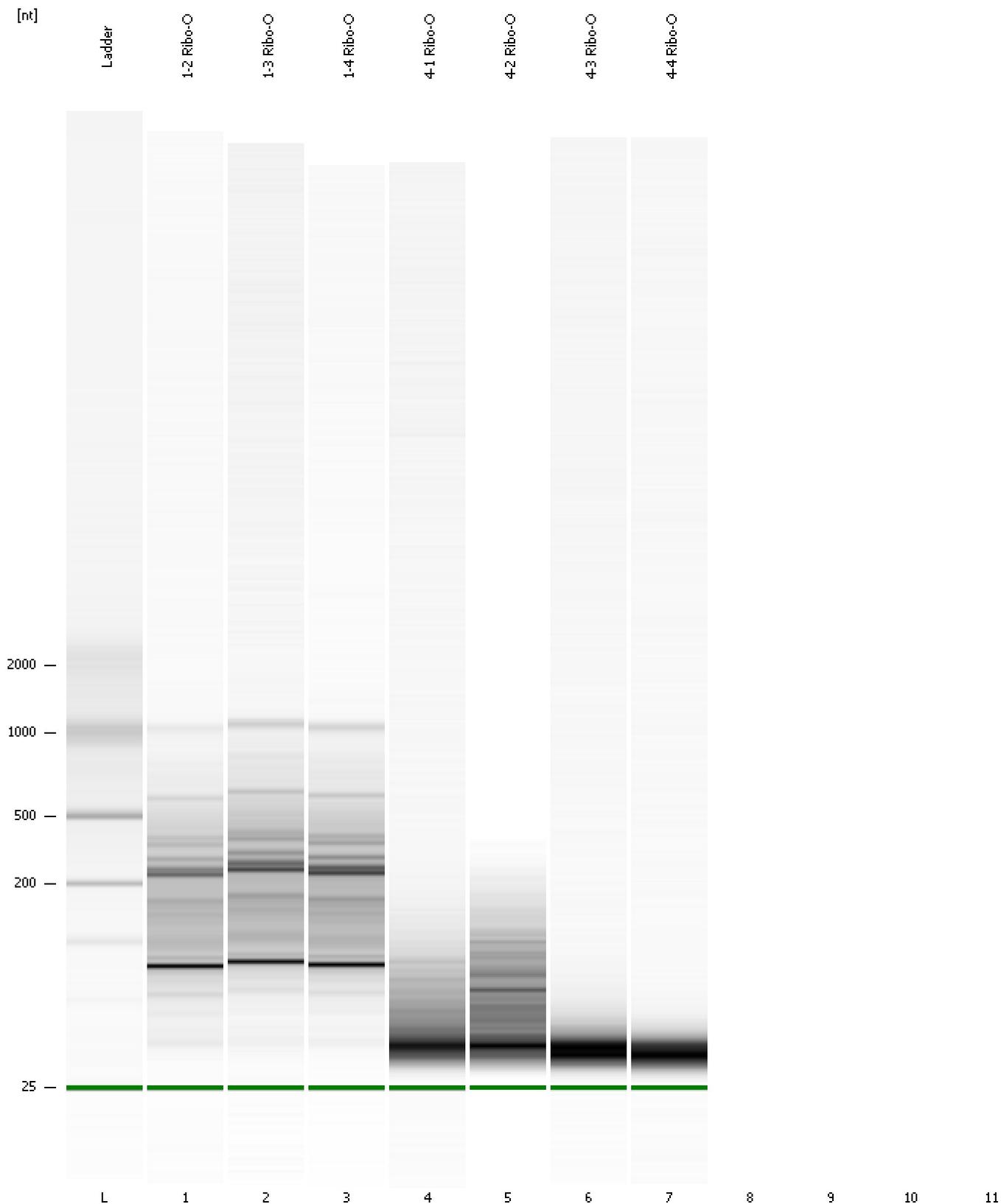
Overall Results for sample 7 : 4-4 Ribo-O

RNA Area:	82.4	rRNA Contamination:	0.0 %
RNA Concentration:	1,560 pg/ μ l		

Assay Class: mRNA Pico
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Gel Image

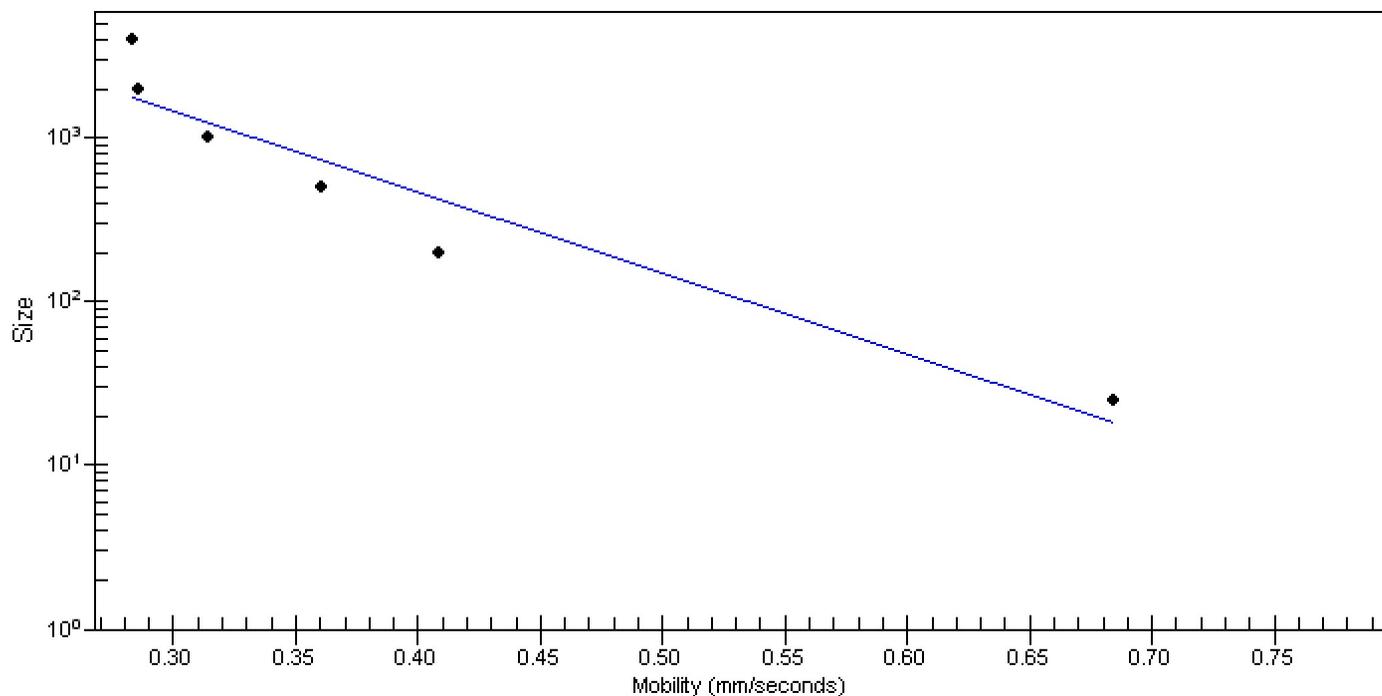


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Curves

Standard Curve



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Invalid Samples

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

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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: 8)		Instrument	Run		10/3/2014 1:43:40 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-03\2014-10-03_004.xad)		Instrument	Run		10/3/2014 1:24:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/3/2014 1:24:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/3/2014 1:24:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/3/2014 1:24:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/3/2014 1:24:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/3/2014 1:24:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/3/2014 1:24:37 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1