

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-03\2014-10-03_005.xad

Created: 10/3/2014 2:20:07 PM
Modified: 10/3/2014 2:34:32 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

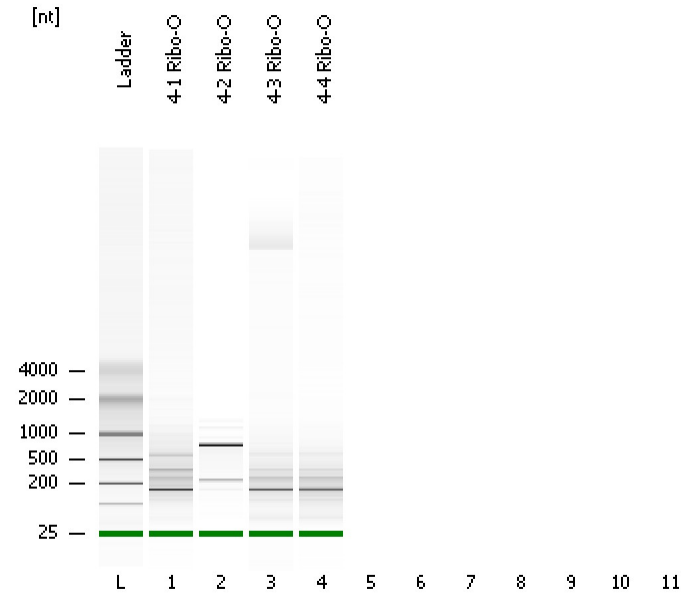
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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

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Chip Information:

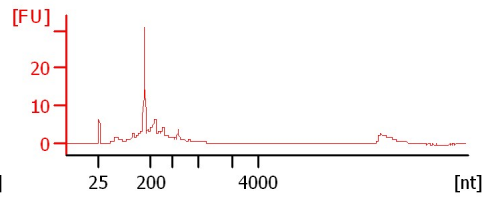
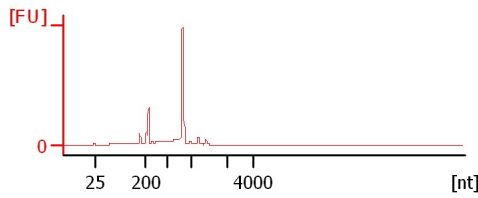
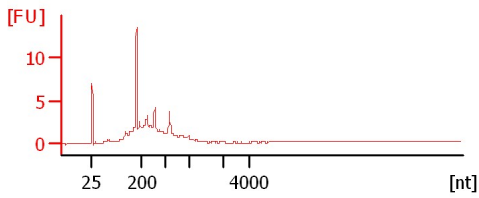
Chip Lot #:
Reagent Kit Lot #:
Chip Comments:



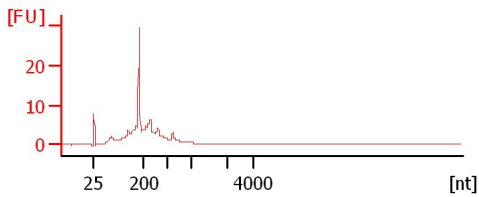
4-1 Ribo-O

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
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/ μ l] : 1000

Lower Marker Concentration [pg/ μ l] : 0

Upper Marker Concentration [pg/ 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

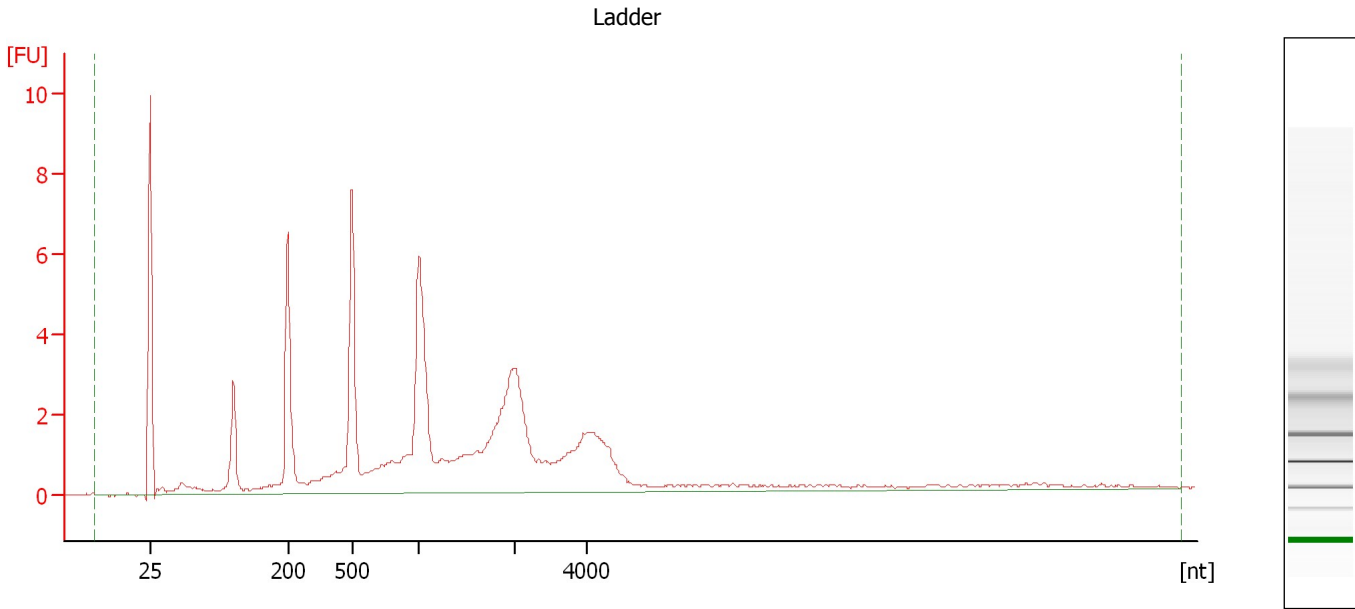
Ladder

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

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Electropherogram Summary



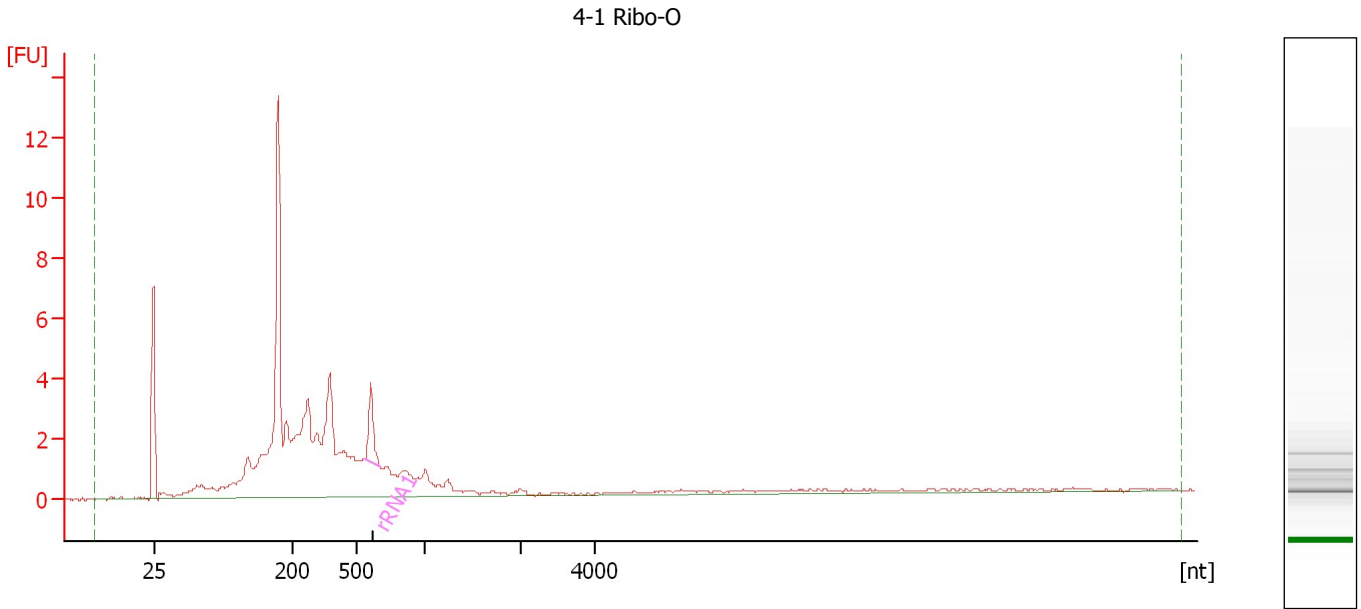
Overall Results for Ladder

RNA Area: 86.3 RNA Concentration: 1,000 pg/μl

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Electropherogram Summary Continued ...



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

RNA Area: 88.0 rRNA Contamination: 3.0 %
RNA Concentration: 1,020 pg/μl

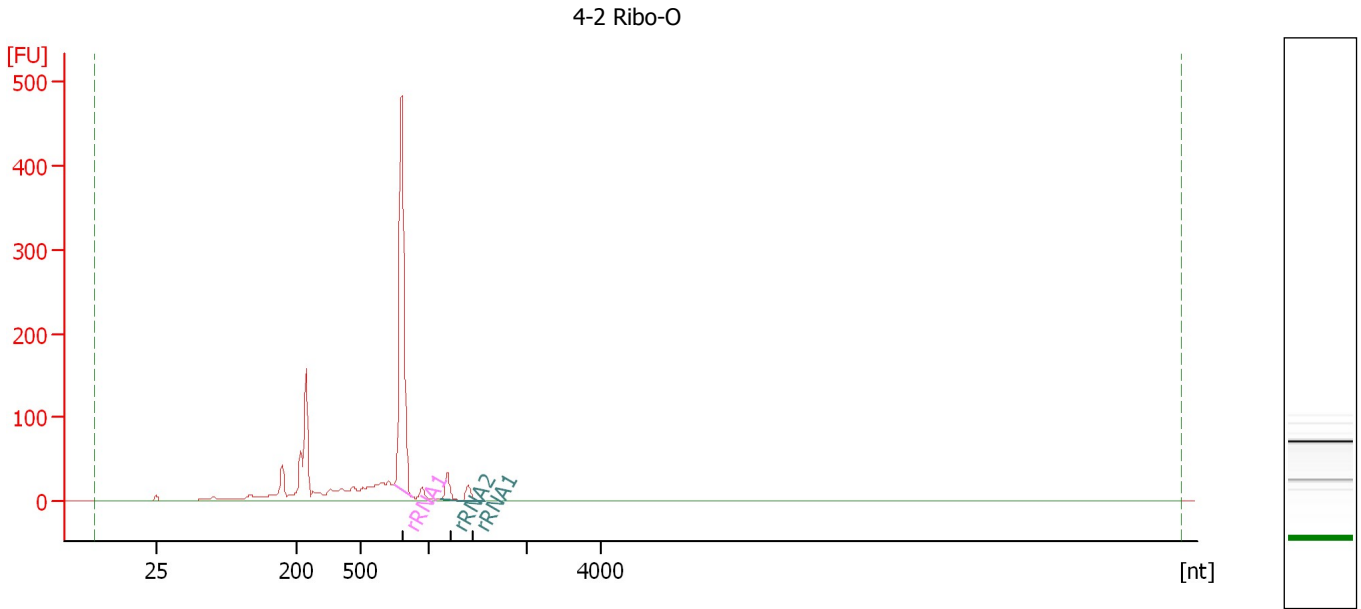
Fragment table for sample 1 : 4-1 Ribo-O

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	549	667	2.6	3.0

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Electropherogram Summary Continued ...



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

RNA Area: 1,195.6 rRNA Contamination: 46.4 %
RNA Concentration: 13,857 pg/μl

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

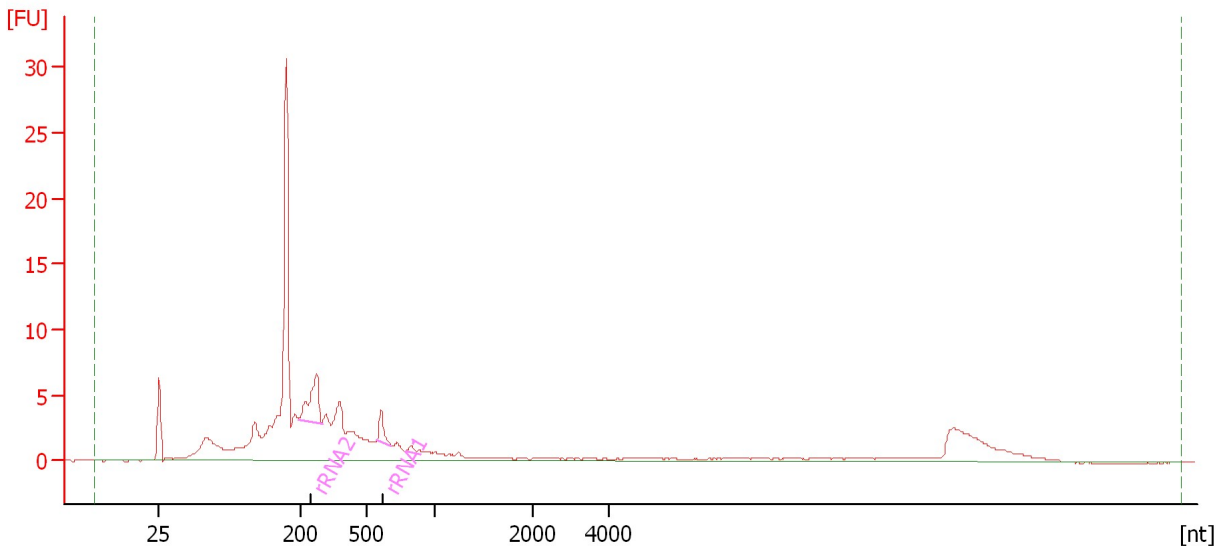
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	736	870	506.7	42.4
rRNA2	1,106	1,321	29.0	2.4
rRNA1	1,329	1,577	18.5	1.5

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Electropherogram Summary Continued ...

4-3 Ribo-O



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

RNA Area: 165.9 rRNA Contamination: 6.2 %
RNA Concentration: 1,923 pg/μl

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

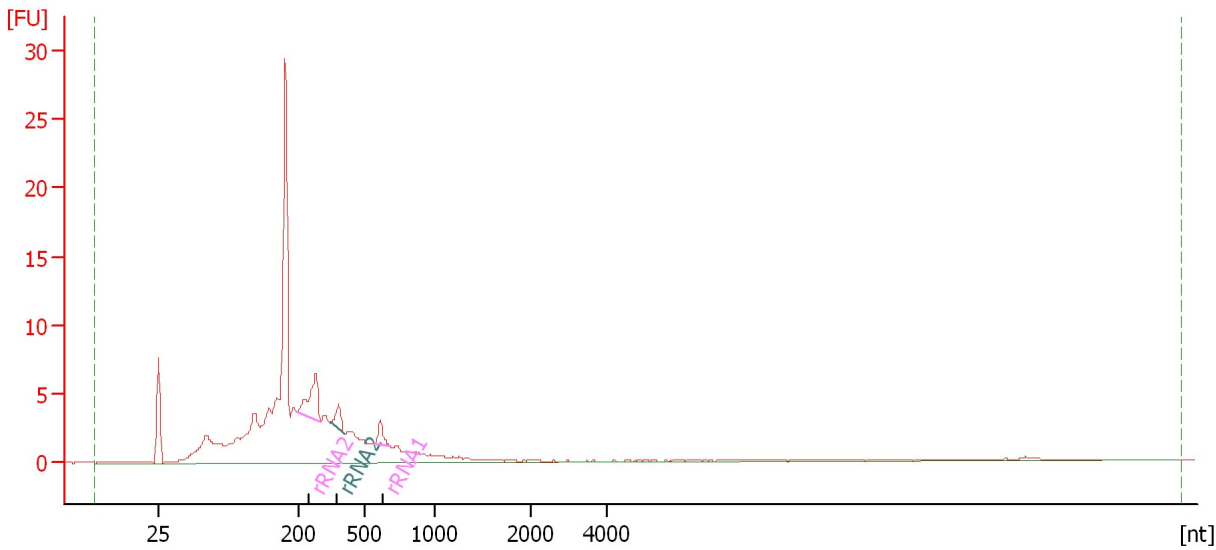
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	198	297	8.1	4.9
rRNA1	574	672	2.3	1.4

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Electropherogram Summary Continued ...

4-4 Ribo-O



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

RNA Area: 161.2 rRNA Contamination: 6.6 %
RNA Concentration: 1,868 pg/μl

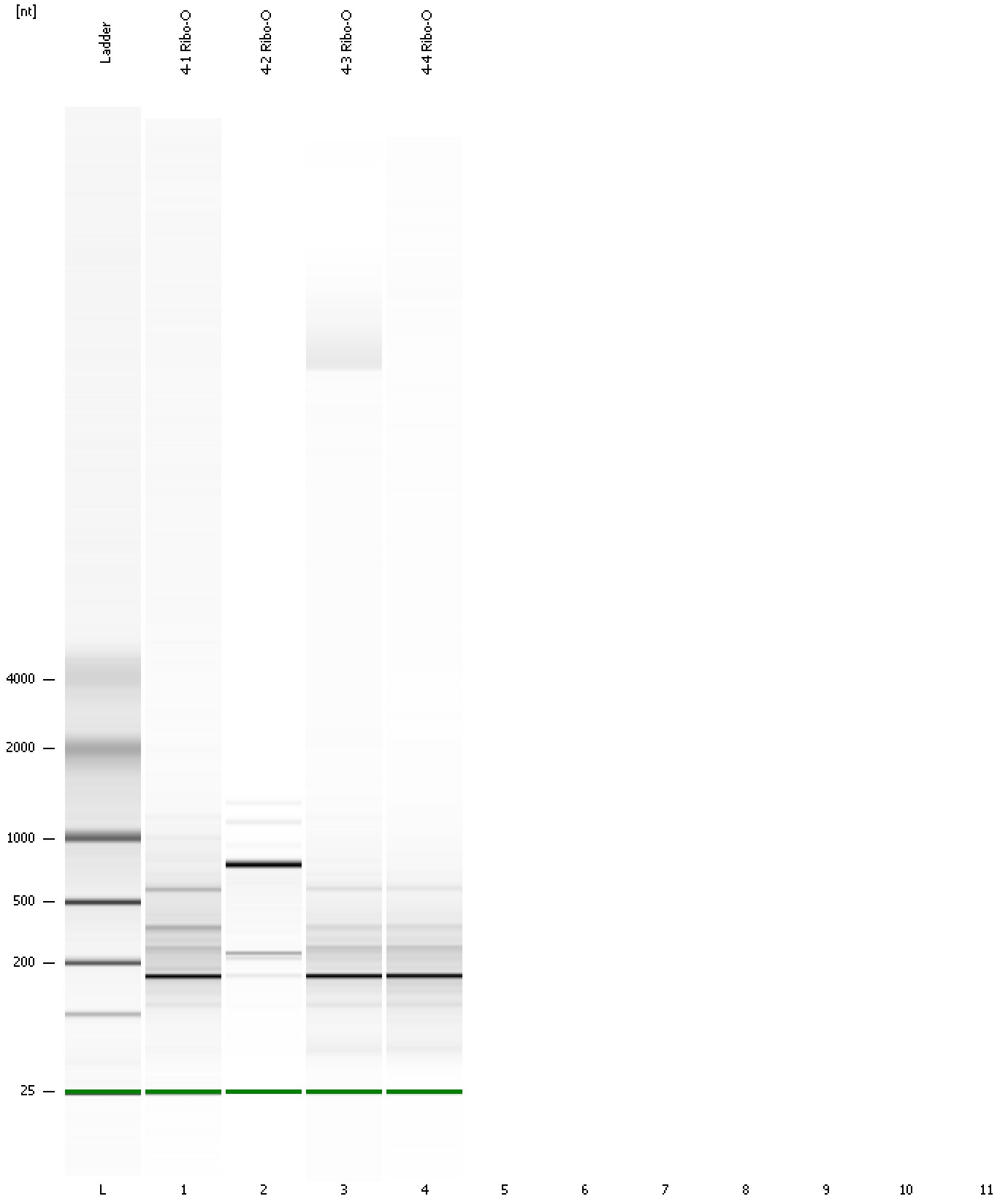
Fragment table for sample 4 : 4-4 Ribo-O

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	197	299	6.8	4.2
rRNA2	346	404	2.1	1.3
rRNA1	572	676	1.8	1.1

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Gel Image

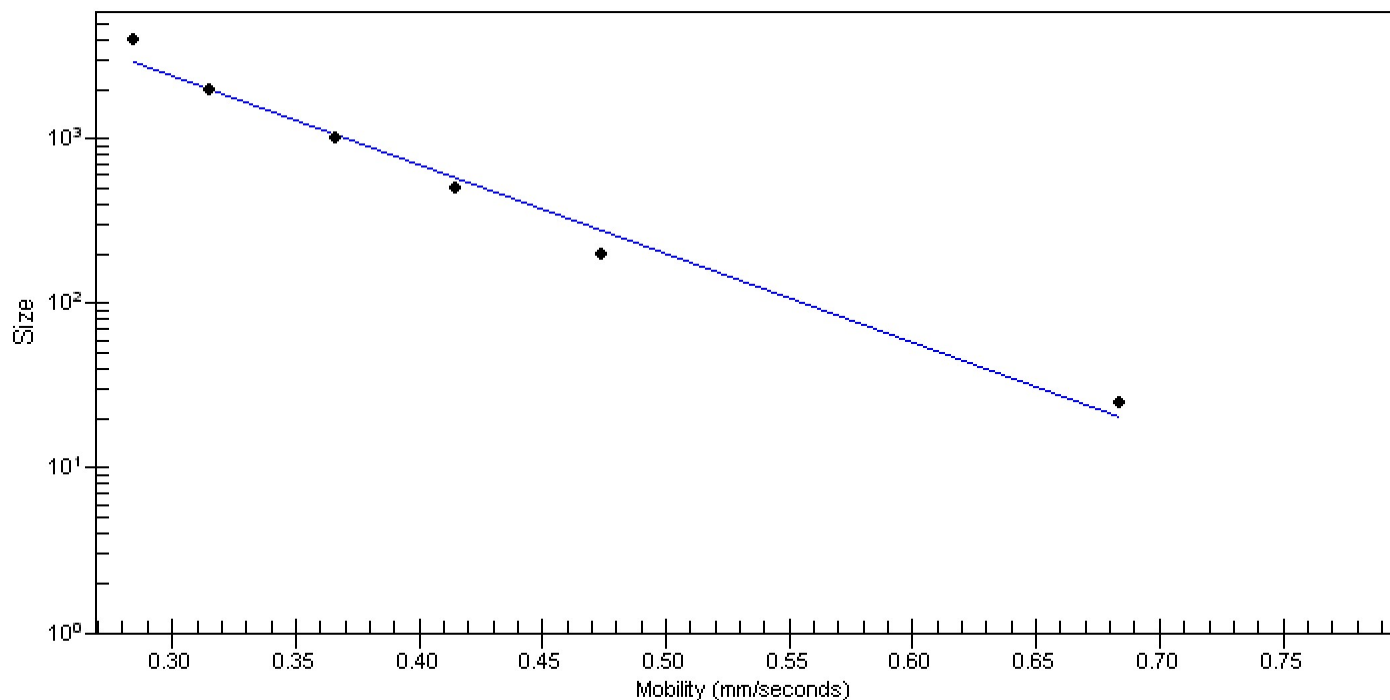


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Curves

Standard Curve



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Invalid Samples

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

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: 5)		Instrument	Run		10/3/2014 2:34:14 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_005.xad)		Instrument	Run		10/3/2014 2:20:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/3/2014 2:20:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/3/2014 2:20:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/3/2014 2:20:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/3/2014 2:20:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/3/2014 2:20:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/3/2014 2:20:13 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1