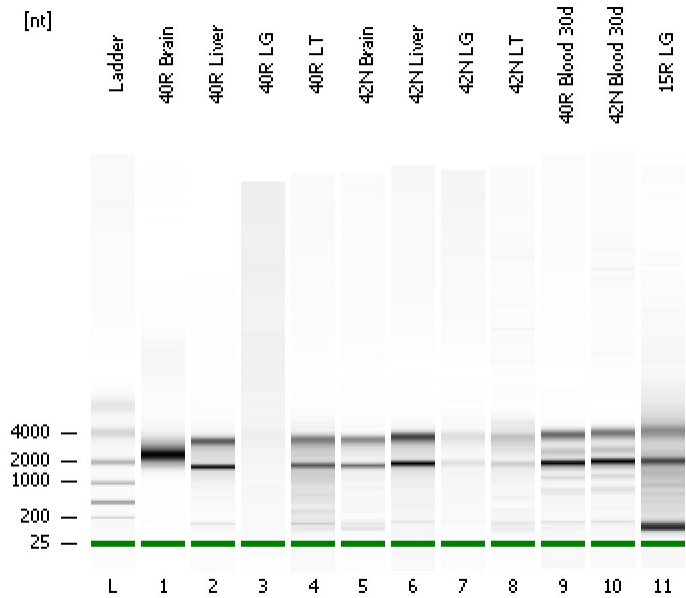


Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
 Modified: 4/4/2017 12:01:08 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

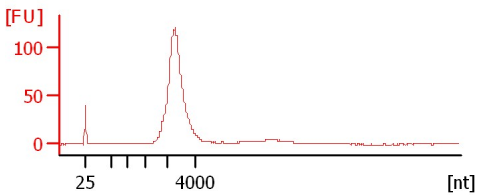
Assay Class: mRNA Pico
 Version: 2.6
 Assay Comments: mRNA Analysis pg sensitivity

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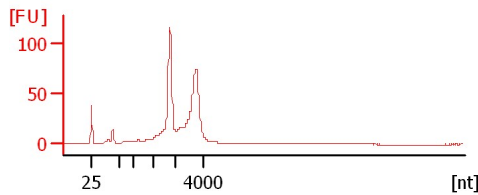
Chip Information:

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

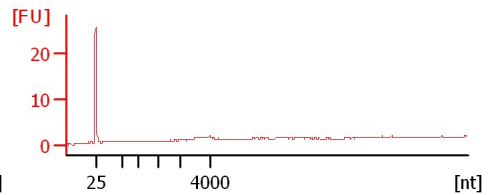
40R Brain



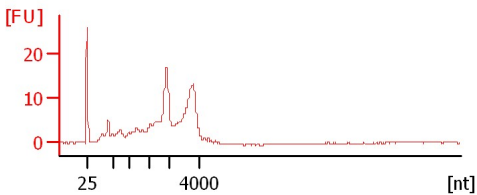
40R Liver



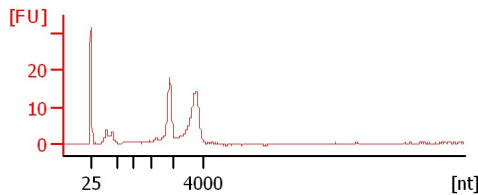
40R LG



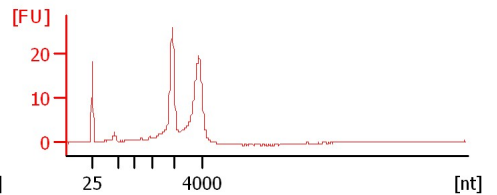
40R LT



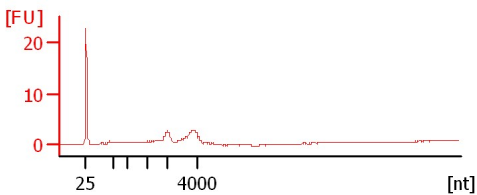
42N Brain



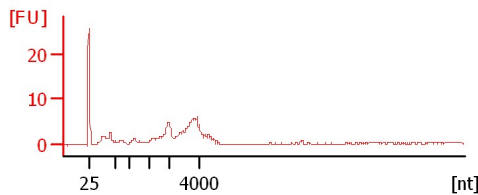
42N Liver



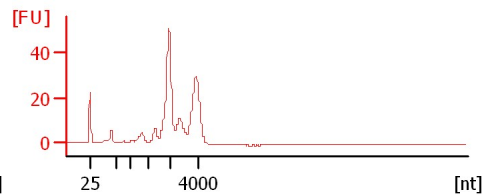
42N LG



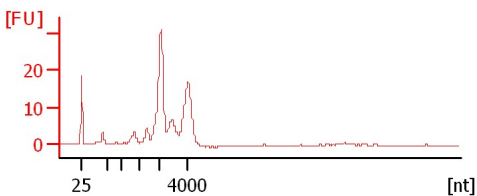
42N LT



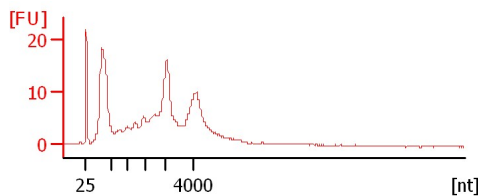
40R Blood 30d



42N Blood 30d



15R LG



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
40R Brain		✓		
40R Liver		✓		
40R LG		✓		
40R LT		✓		
42N Brain		✓		
42N Liver		✓		
42N LG		✓		
42N LT		✓		
40R Blood 30d		✓		
42N Blood 30d		✓		
15R LG		✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

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

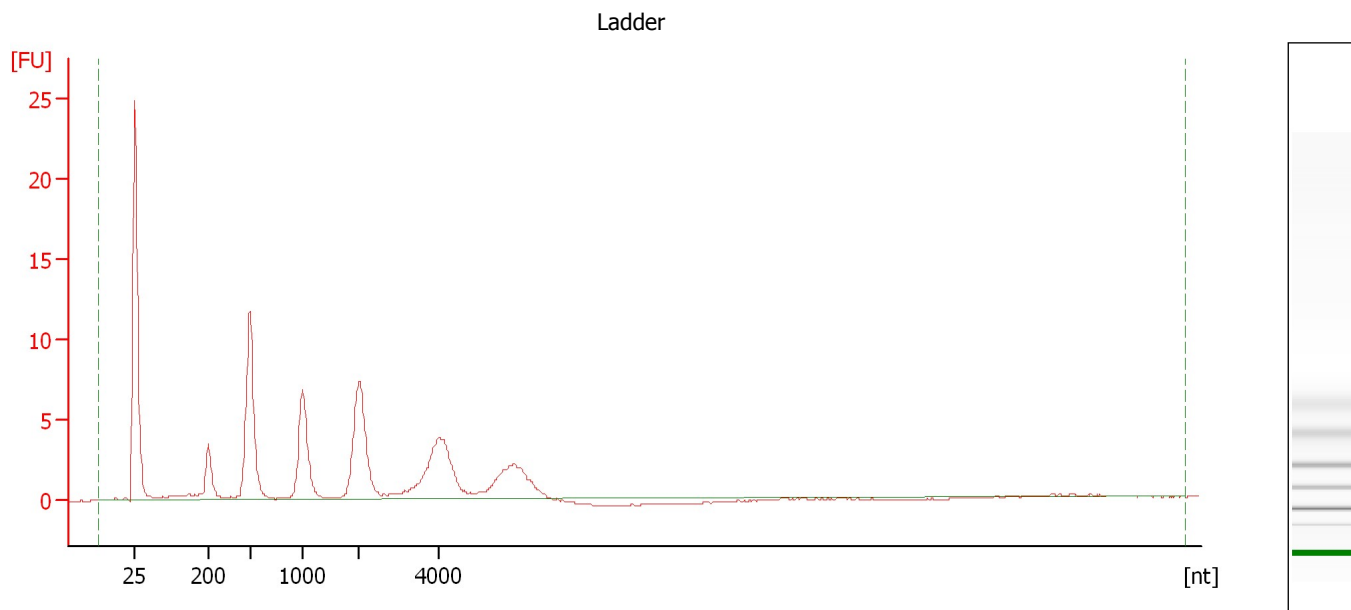
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary



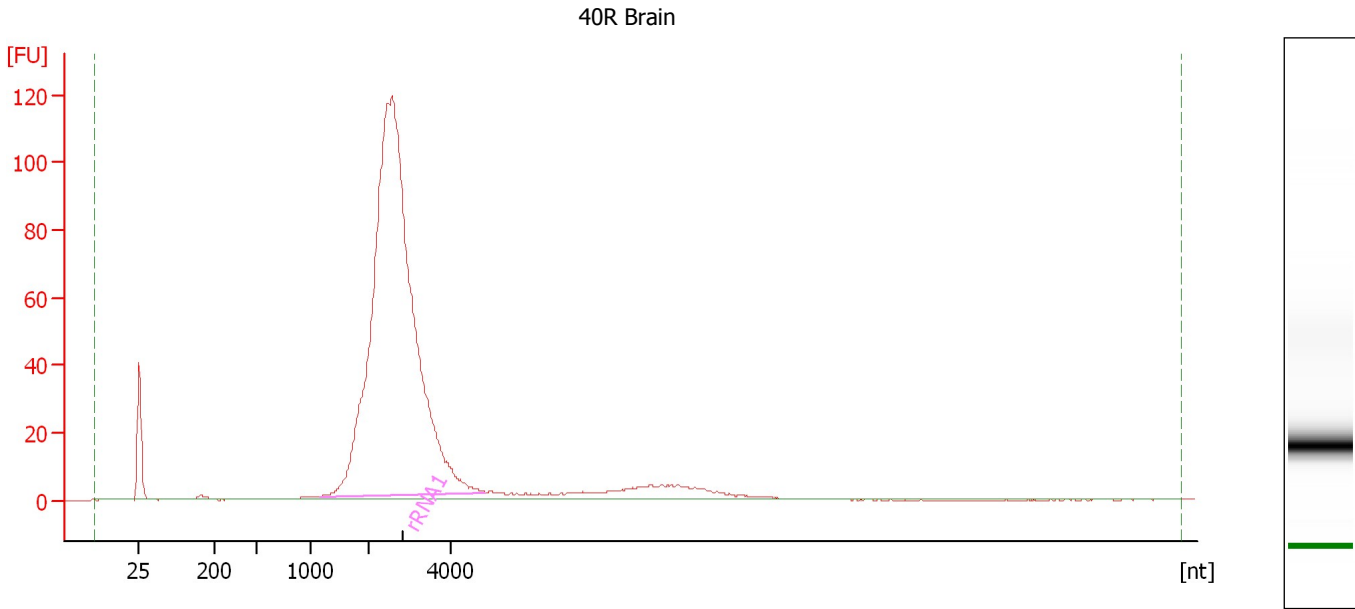
Overall Results for Ladder

RNA Area: 108.4 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 40R Brain

RNA Area: 1,135.3 rRNA Contamination: 171.5 %
RNA Concentration: 10,477 pg/μl

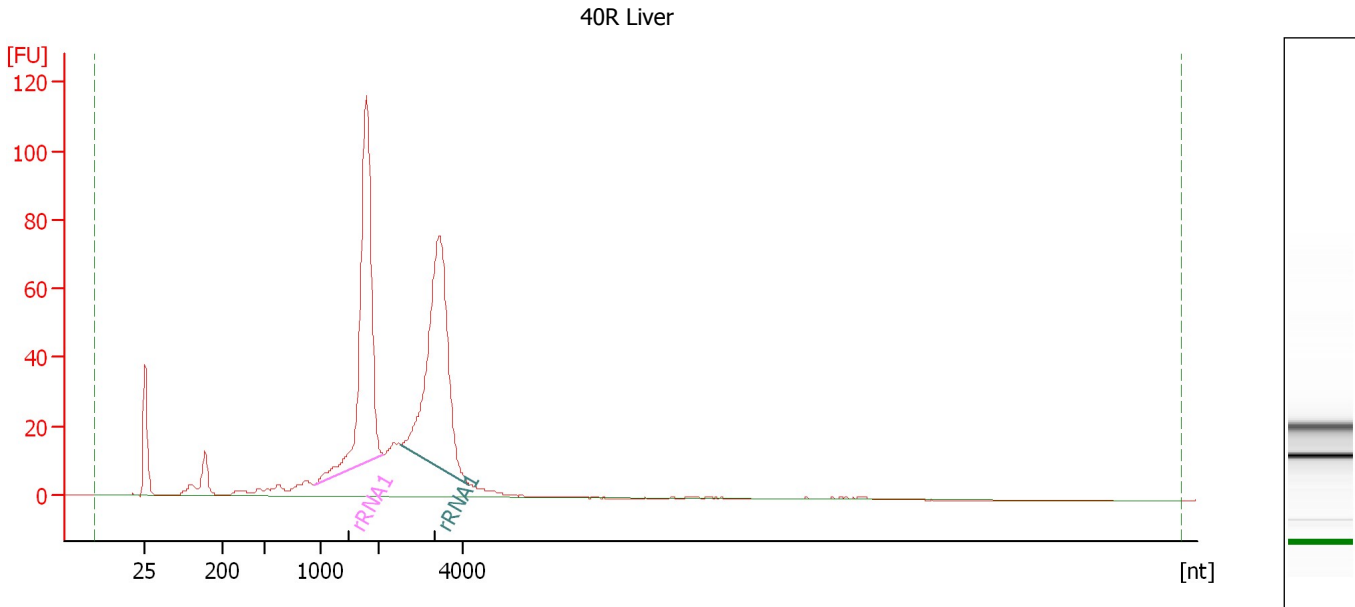
Fragment table for sample 1 : 40R Brain

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,167	4,828	991.8	87.4
rRNA2	1,475	4,828	955.5	84.2

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 40R Liver

RNA Area: 874.6 rRNA Contamination: 59.1 %
RNA Concentration: 8,072 pg/μl

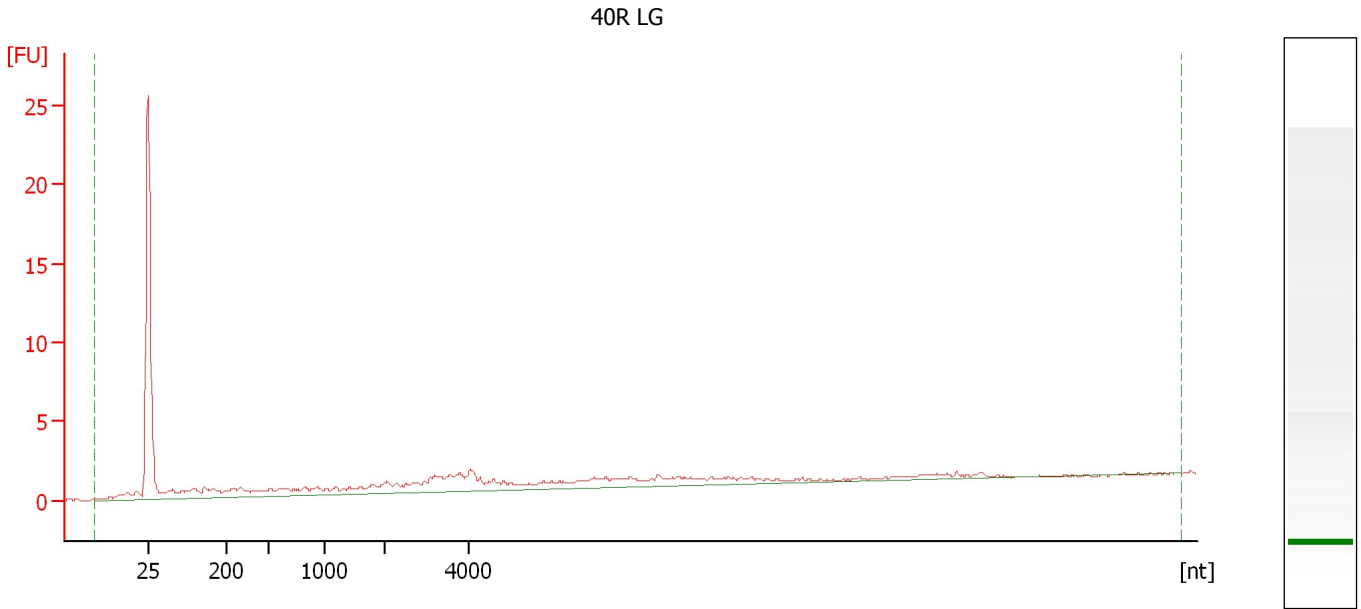
Fragment table for sample 2 : 40R Liver

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	950	2,074	258.6	29.6
rRNA1	2,514	4,157	258.3	29.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...



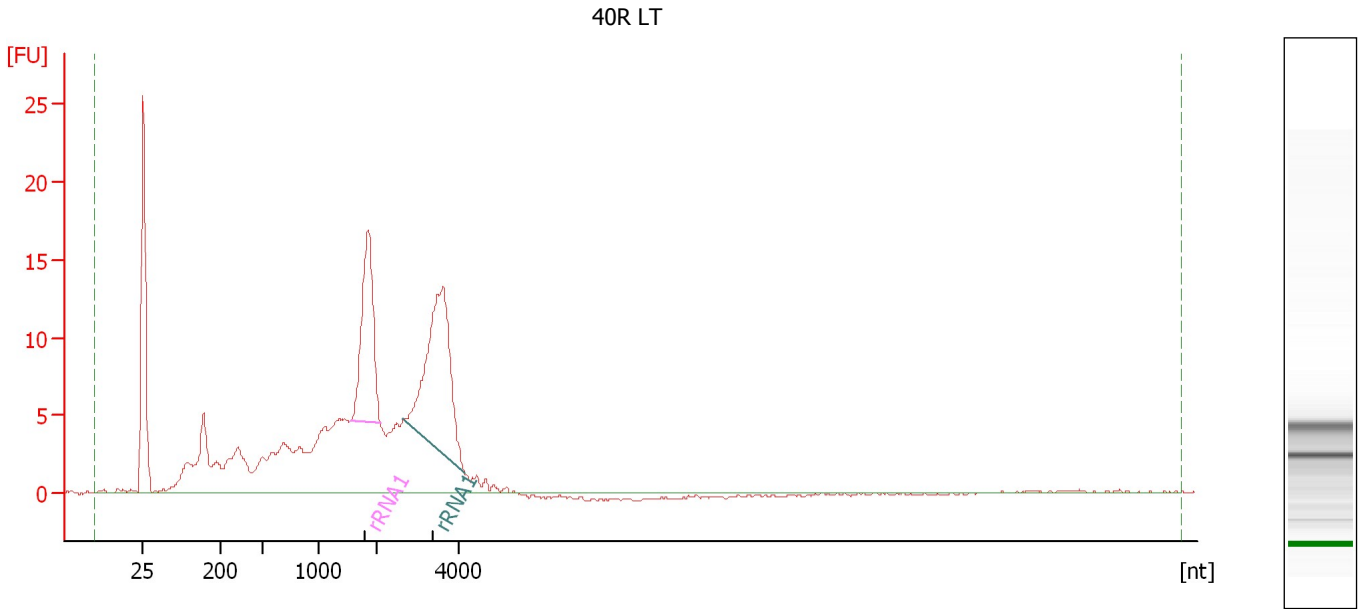
Overall Results for sample 3 : 40R LG

RNA Area:	55.7	rRNA Contamination:	0.0 %
RNA Concentration:	515 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 40R LT

RNA Area: 270.0 rRNA Contamination: 29.2 %
RNA Concentration: 2,492 pg/μl

Fragment table for sample 4 : 40R LT

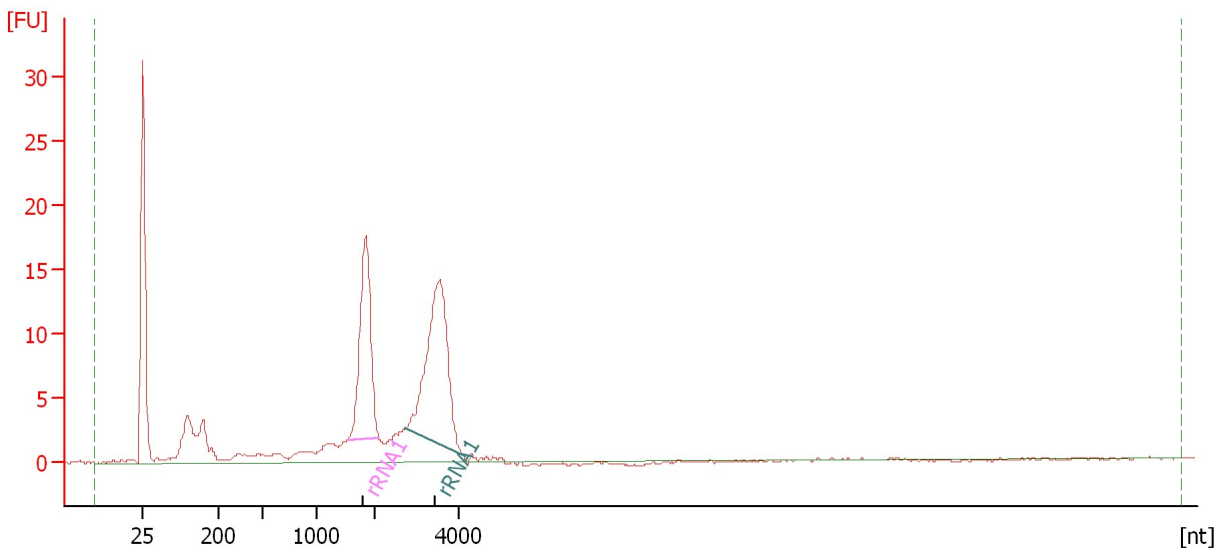
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,573	2,085	30.8	11.4
rRNA1	2,642	4,121	48.0	17.8

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...

42N Brain



Overall Results for sample 5 : 42N Brain

RNA Area: 173.4 rRNA Contamination: 51.1 %
RNA Concentration: 1,600 pg/μl

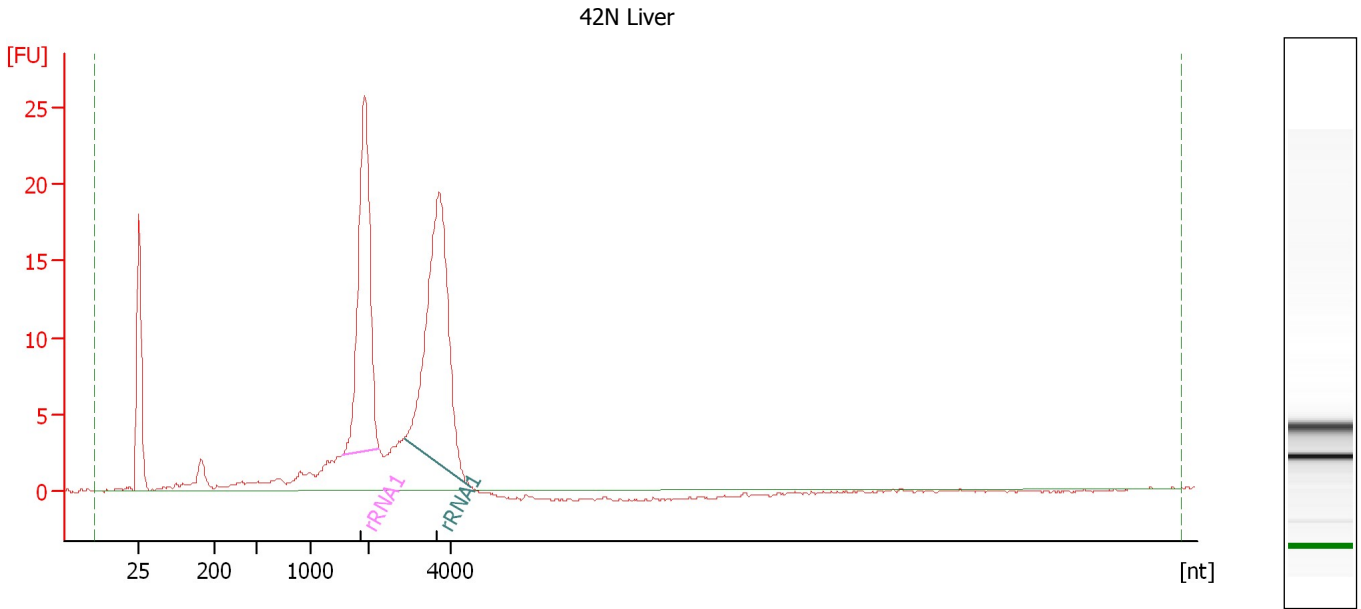
Fragment table for sample 5 : 42N Brain

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,541	2,081	37.3	21.5
rRNA1	2,736	4,142	51.3	29.6

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 42N Liver

RNA Area: 217.4 rRNA Contamination: 61.0 %
RNA Concentration: 2,007 pg/μl

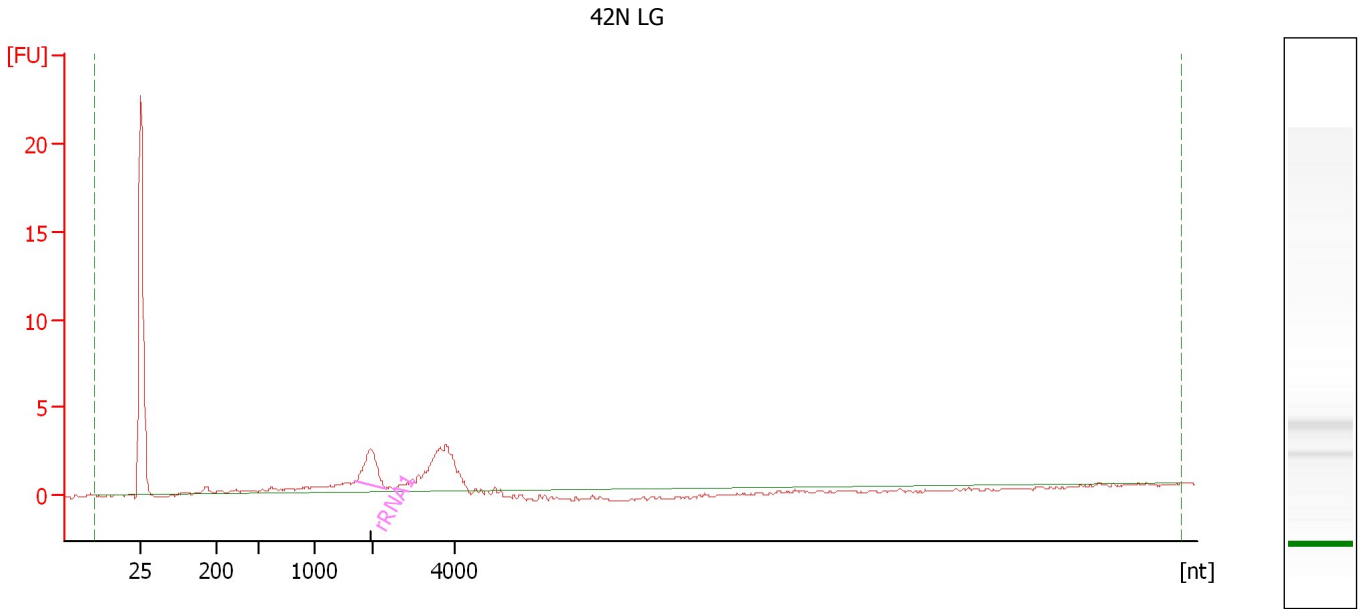
Fragment table for sample 6 : 42N Liver

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,561	2,255	59.6	27.4
rRNA1	2,899	4,519	72.9	33.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 42N LG

RNA Area: 32.8 rRNA Contamination: 16.7 %
RNA Concentration: 303 pg/μl

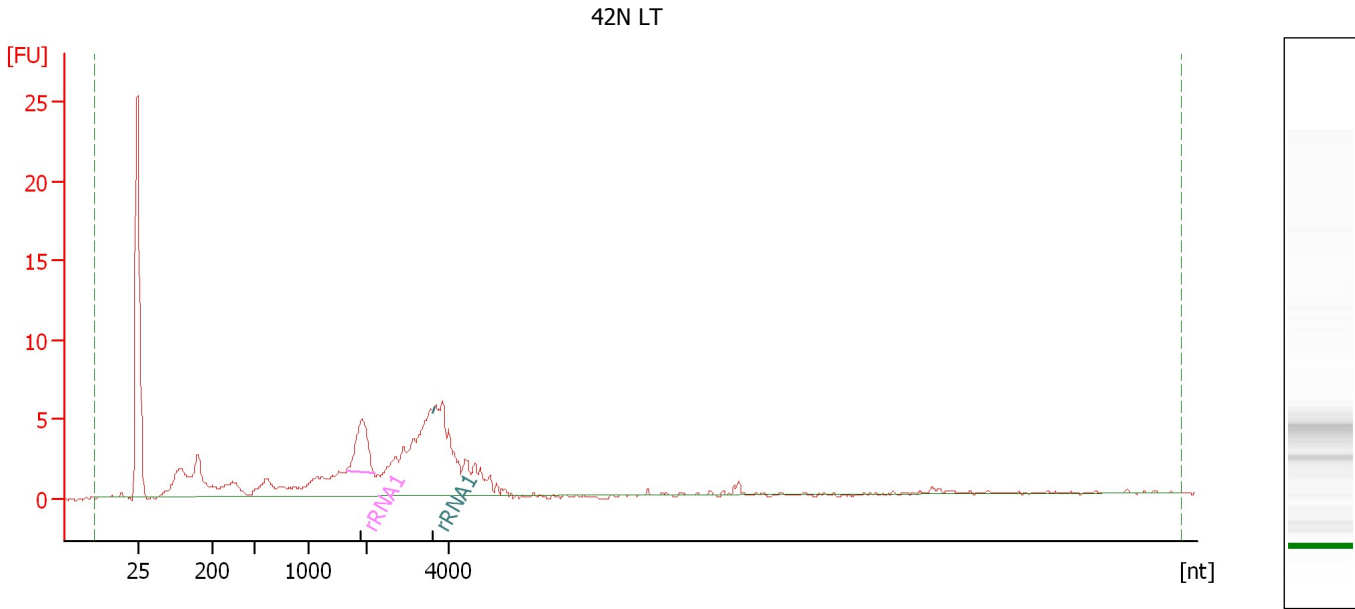
Fragment table for sample 7 : 42N LG

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,710	2,324	5.5	16.7

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 42N LT

RNA Area: 118.6 rRNA Contamination: 7.2 %
RNA Concentration: 1,095 pg/μl

Fragment table for sample 8 : 42N LT

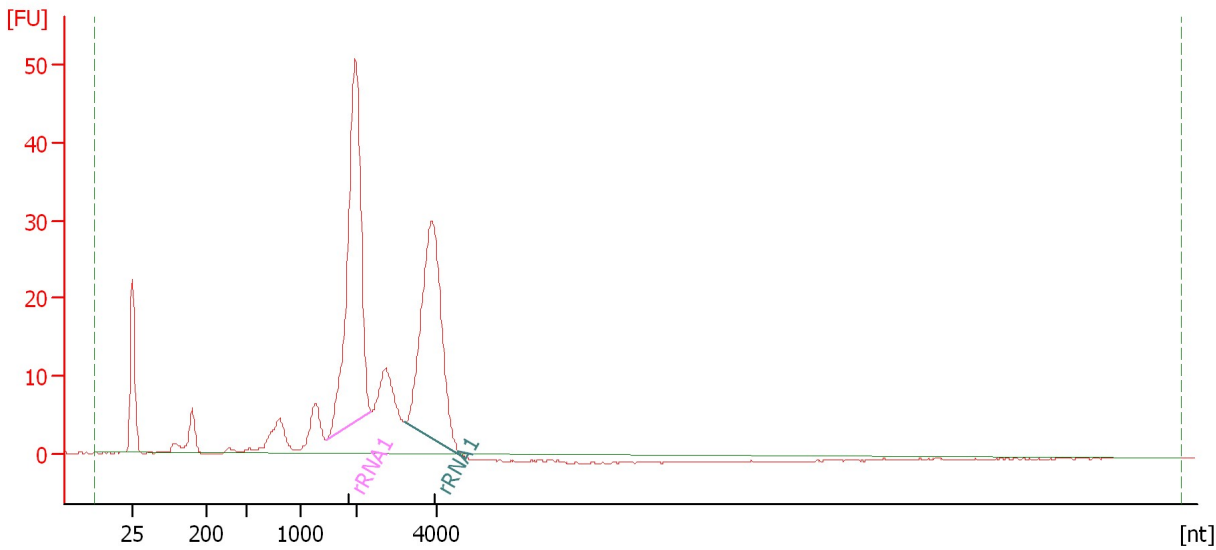
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,653	2,173	8.5	7.1
rRNA1	3,640	3,680	0.0	0.0
rRNA2	3,640	3,680	0.0	0.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...

40R Blood 30d



Overall Results for sample 9 : 40R Blood 30d

RNA Area: 398.8 rRNA Contamination: 63.2 %
RNA Concentration: 3,680 pg/μl

Fragment table for sample 9 : 40R Blood 30d

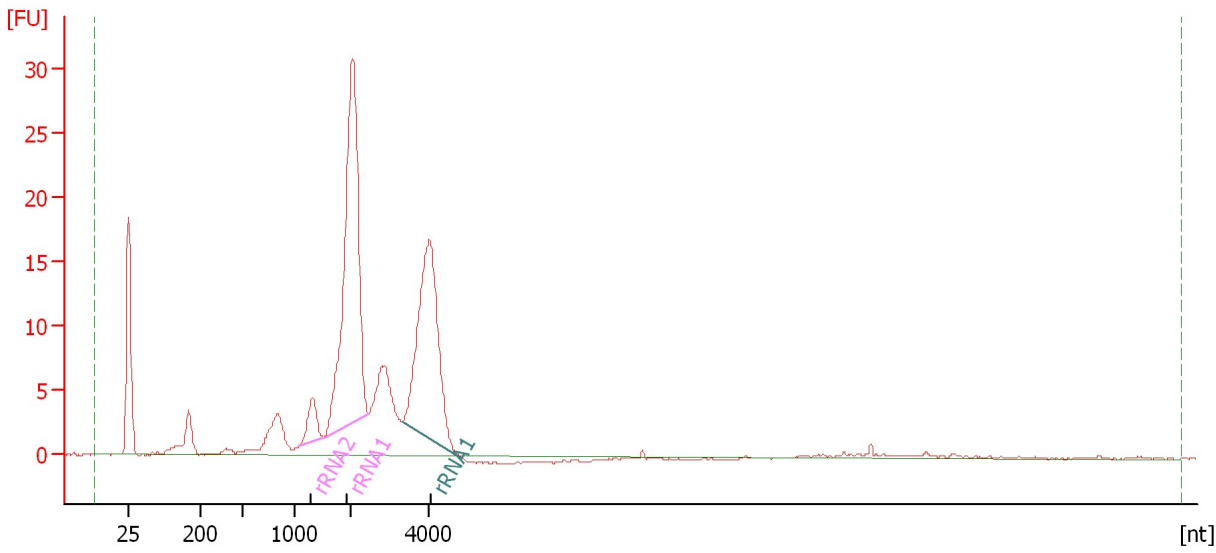
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,469	2,363	141.8	35.6
rRNA1	3,221	4,717	110.1	27.6

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...

42N Blood 30d



Overall Results for sample 10 : 42N Blood 30d

RNA Area: 256.6 rRNA Contamination: 61.3 %
RNA Concentration: 2,368 pg/μl

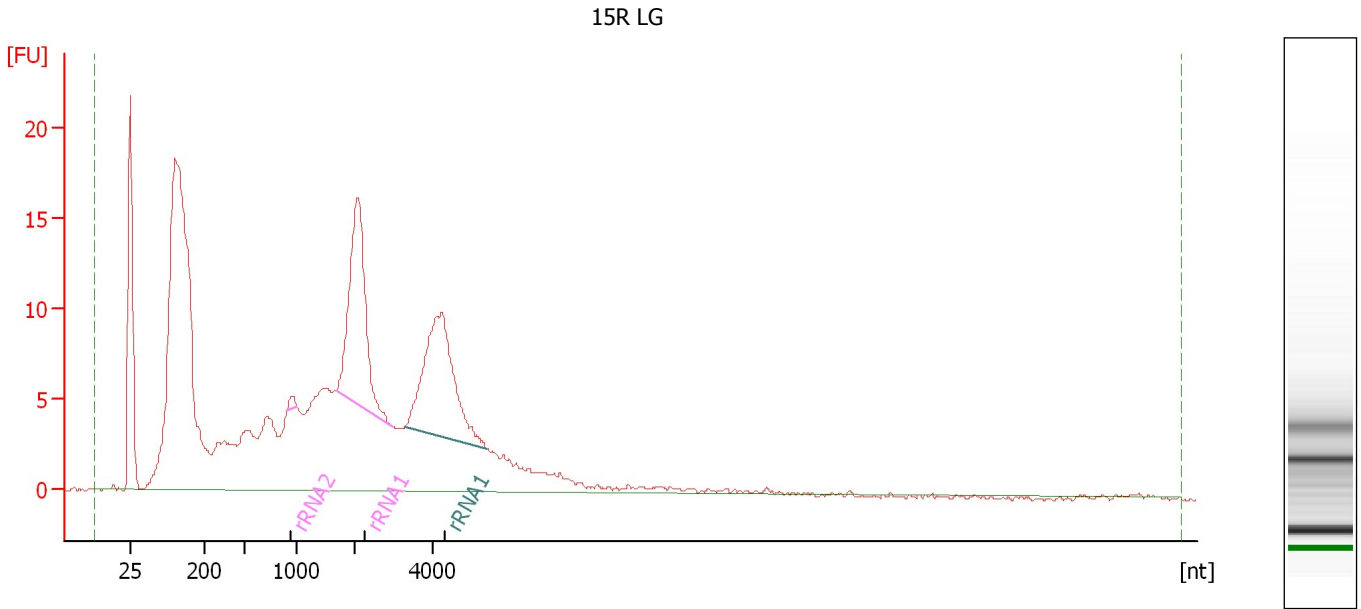
Fragment table for sample 10 : 42N Blood 30d

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,089	1,531	7.4	2.9
rRNA1	1,545	2,466	89.1	34.7
rRNA1	3,336	4,832	60.8	23.7

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 15R LG

RNA Area: 446.9 rRNA Contamination: 18.0 %
RNA Concentration: 4,124 pg/μl

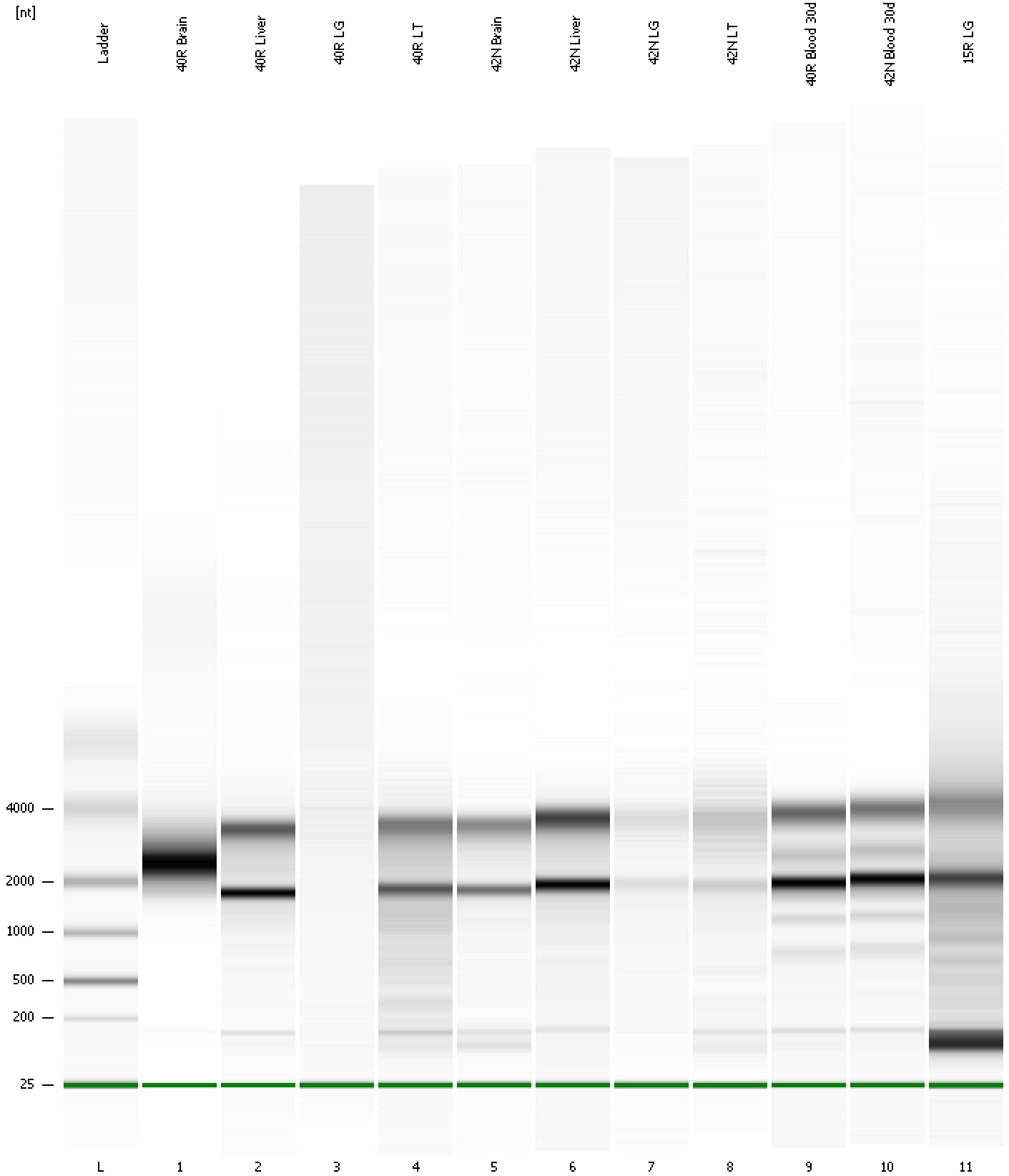
Fragment table for sample 11 : 15R LG

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	898	996	1.0	0.2
rRNA1	1,700	2,958	40.7	9.1
rRNA1	3,298	5,344	38.5	8.6

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
Modified: 4/4/2017 12:01:08 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-04-04\2017-04-04_001.xad

Created: 4/4/2017 11:35:10 AM
 Modified: 4/4/2017 12:01:08 PM

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		4/4/2017 12:01:03 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\2017-04-04\2017-04-04_001.xad)		Instrument	Run		4/4/2017 11:35:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/4/2017 11:35:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/4/2017 11:35:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/4/2017 11:35:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/4/2017 11:35:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/4/2017 11:35:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/4/2017 11:35:15 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1