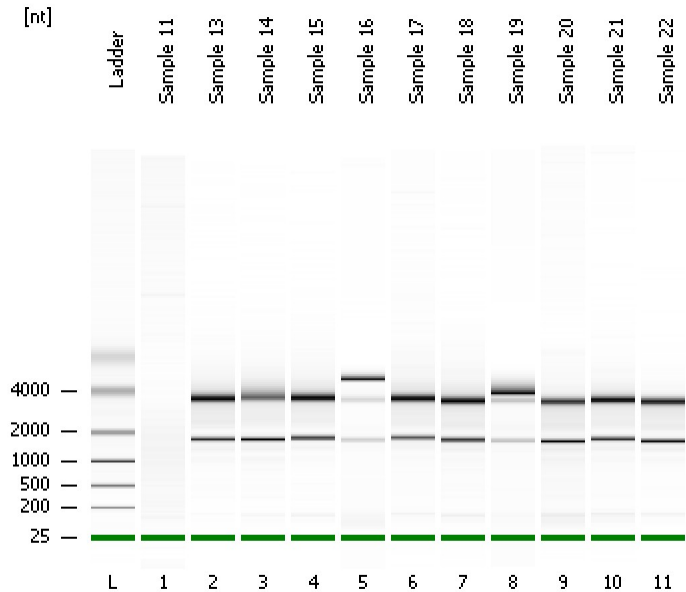


Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 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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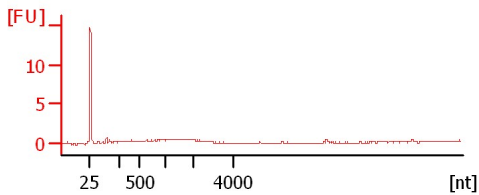
Chip Information:

Chip Lot #:

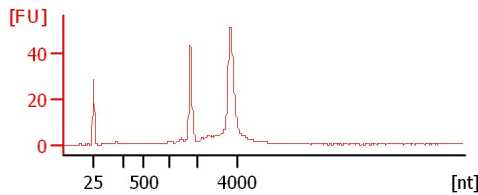
Reagent Kit Lot #:

Chip Comments:

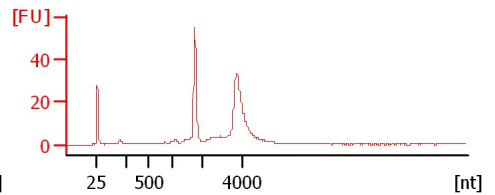
Sample 11



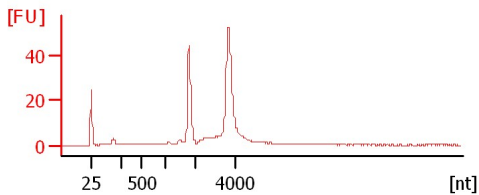
Sample 13



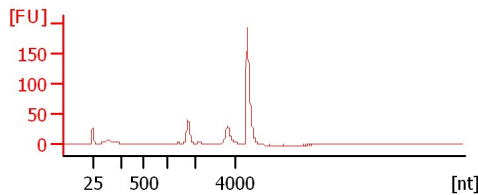
Sample 14



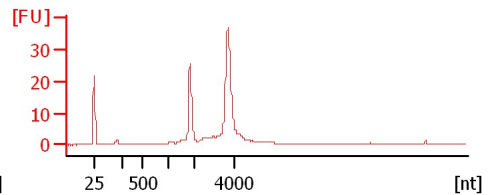
Sample 15



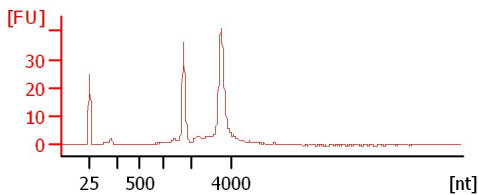
Sample 16



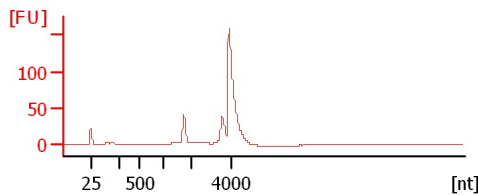
Sample 17



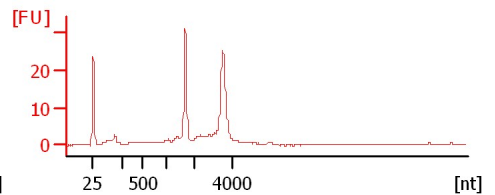
Sample 18



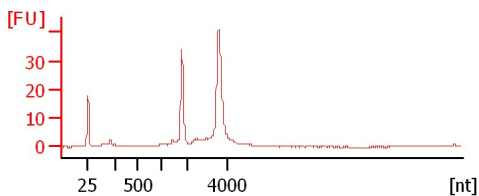
Sample 19



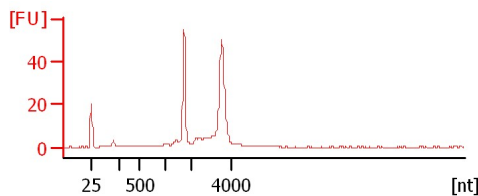
Sample 20



Sample 21



Sample 22



Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 11		✓		
Sample 13		✓		
Sample 14		✓		
Sample 15		✓		
Sample 16		✓		
Sample 17		✓		
Sample 18		✓		
Sample 19		✓		
Sample 20		✓		
Sample 21		✓		
Sample 22		✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 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

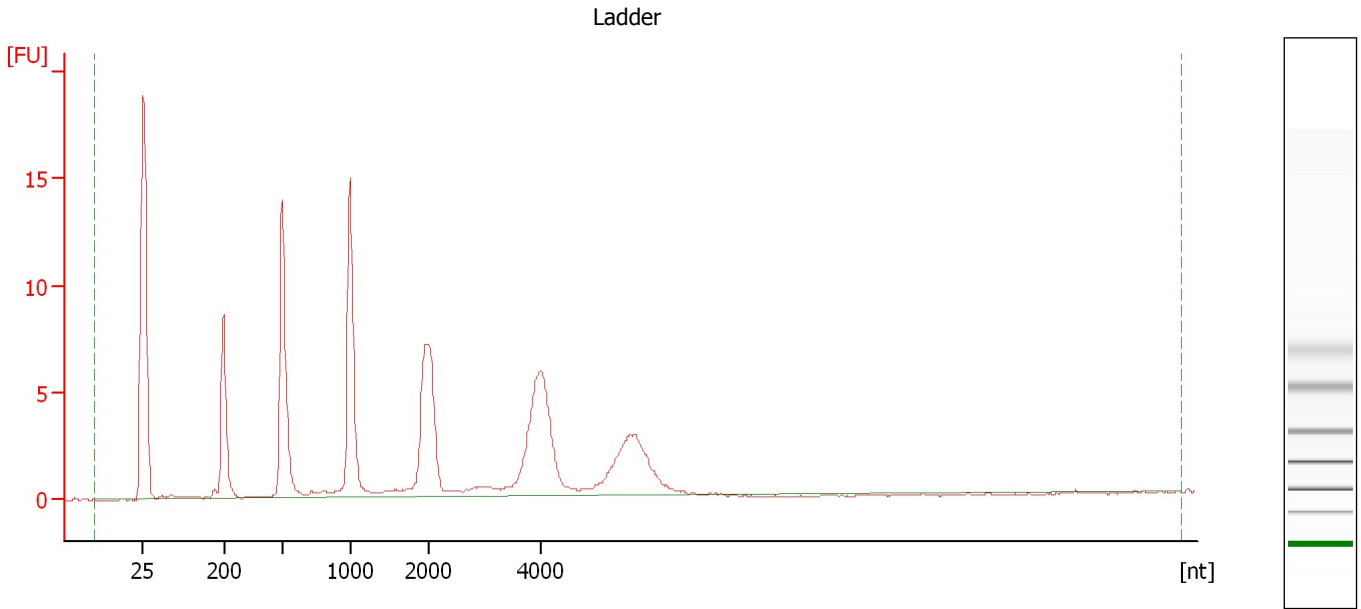
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary



Overall Results for Ladder

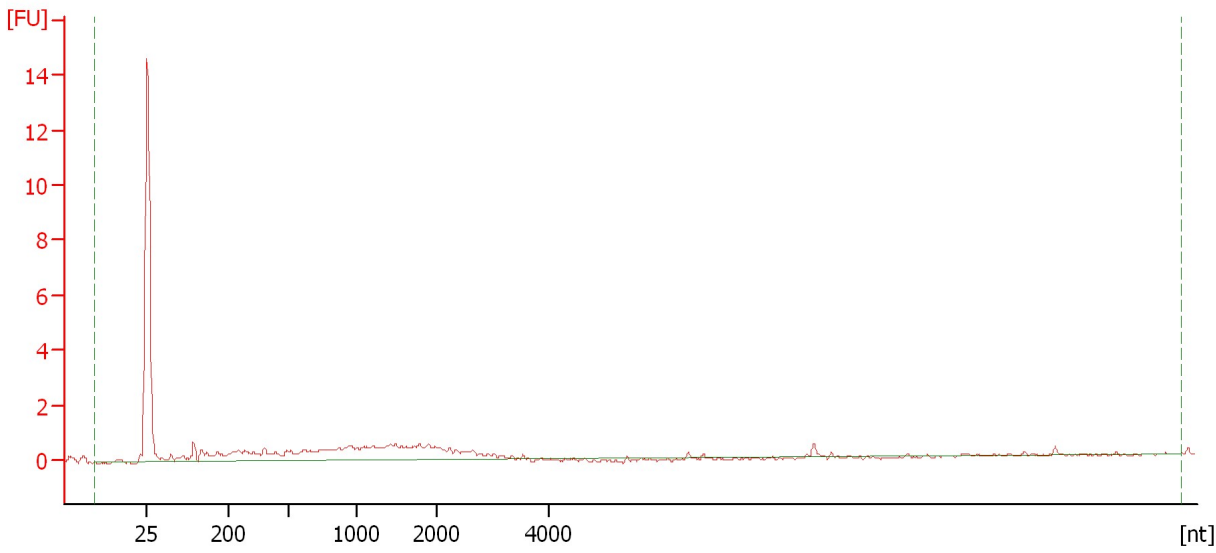
RNA Area: 124.6 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...

Sample 11



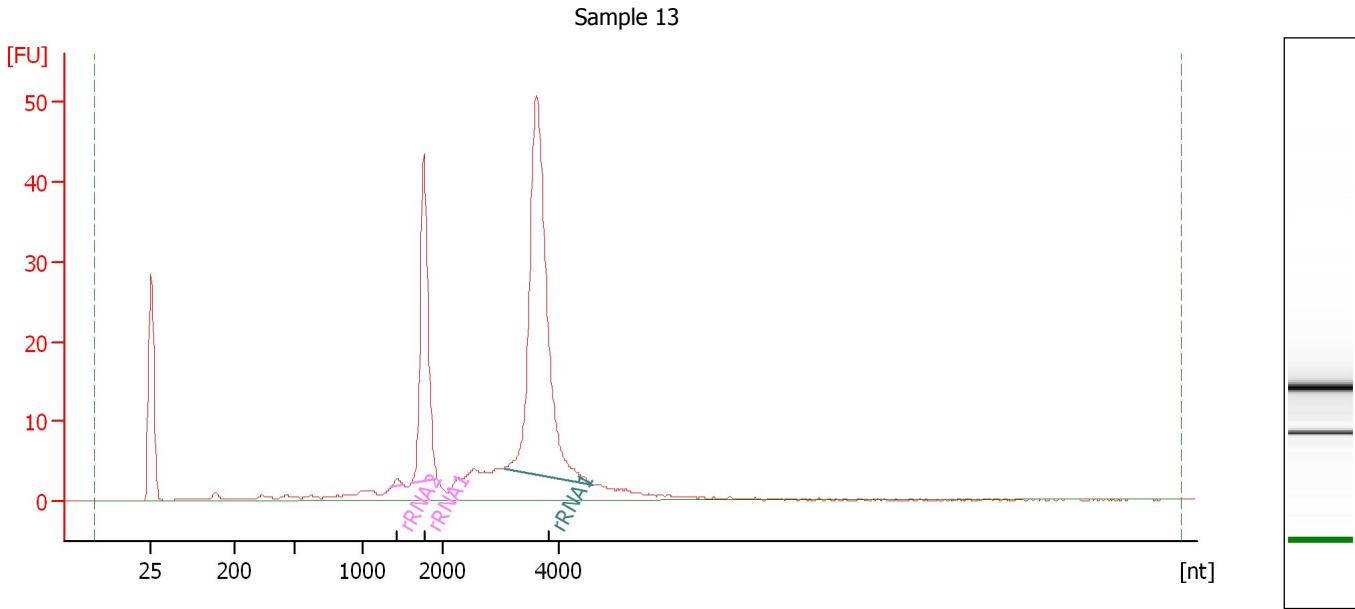
Overall Results for sample 1 : Sample 11

RNA Area:	25.8	rRNA Contamination:	0.0 %
RNA Concentration:	207 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Sample 13

RNA Area: 319.4 rRNA Contamination: 61.9 %
RNA Concentration: 2,564 pg/μl

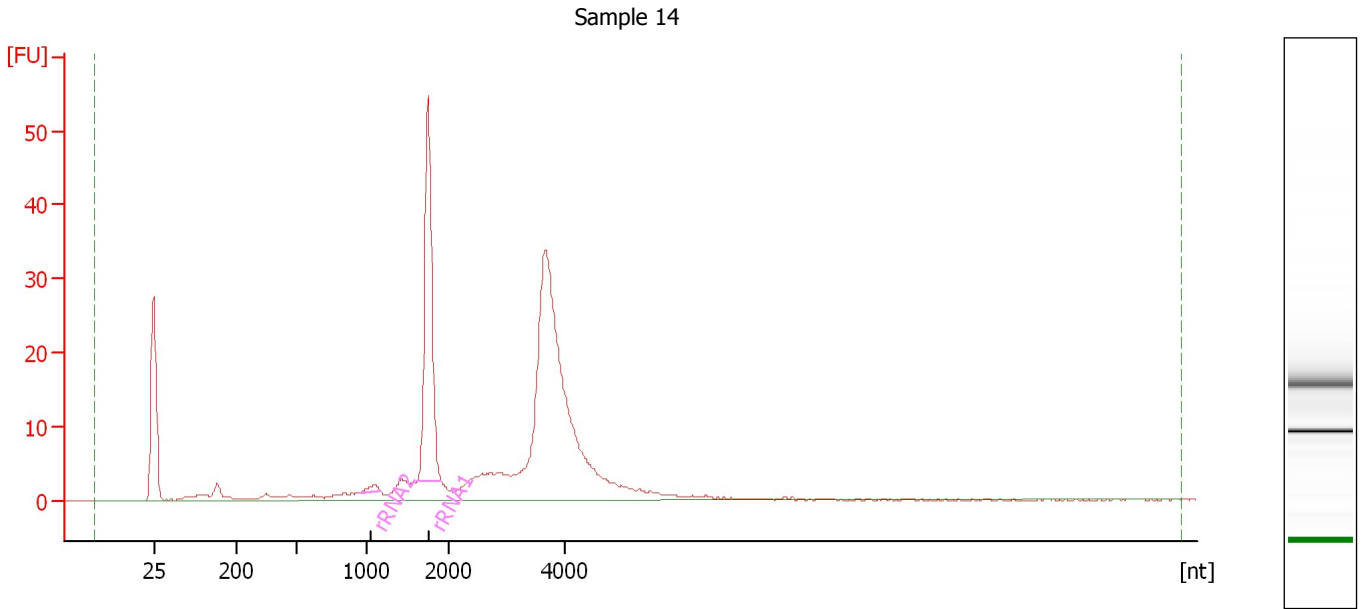
Fragment table for sample 2 : Sample 13

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,349	1,498	1.0	0.3
rRNA1	1,608	1,926	61.9	19.4
rRNA1	3,058	4,592	134.8	42.2

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Sample 14

RNA Area: 328.1 rRNA Contamination: 22.6 %
RNA Concentration: 2,633 pg/μl

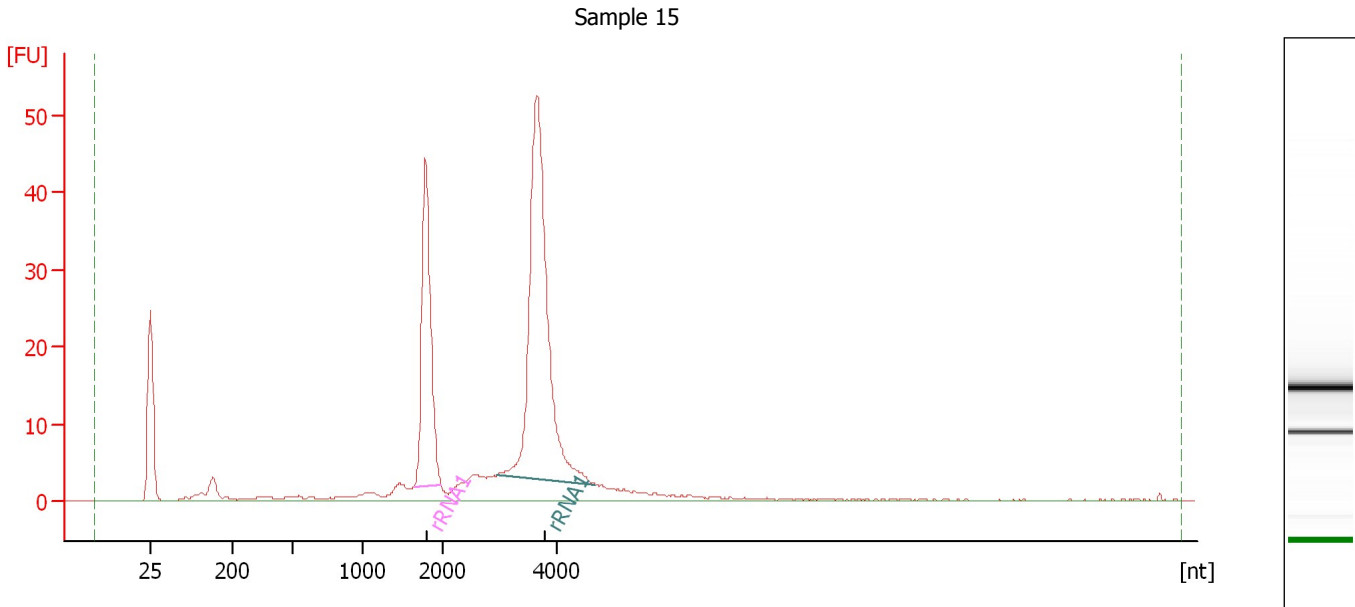
Fragment table for sample 3 : Sample 14

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	949	1,159	1.8	0.6
rRNA1	1,622	1,918	72.4	22.1

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Sample 15

RNA Area: 340.1 rRNA Contamination: 64.0 %
RNA Concentration: 2,730 pg/μl

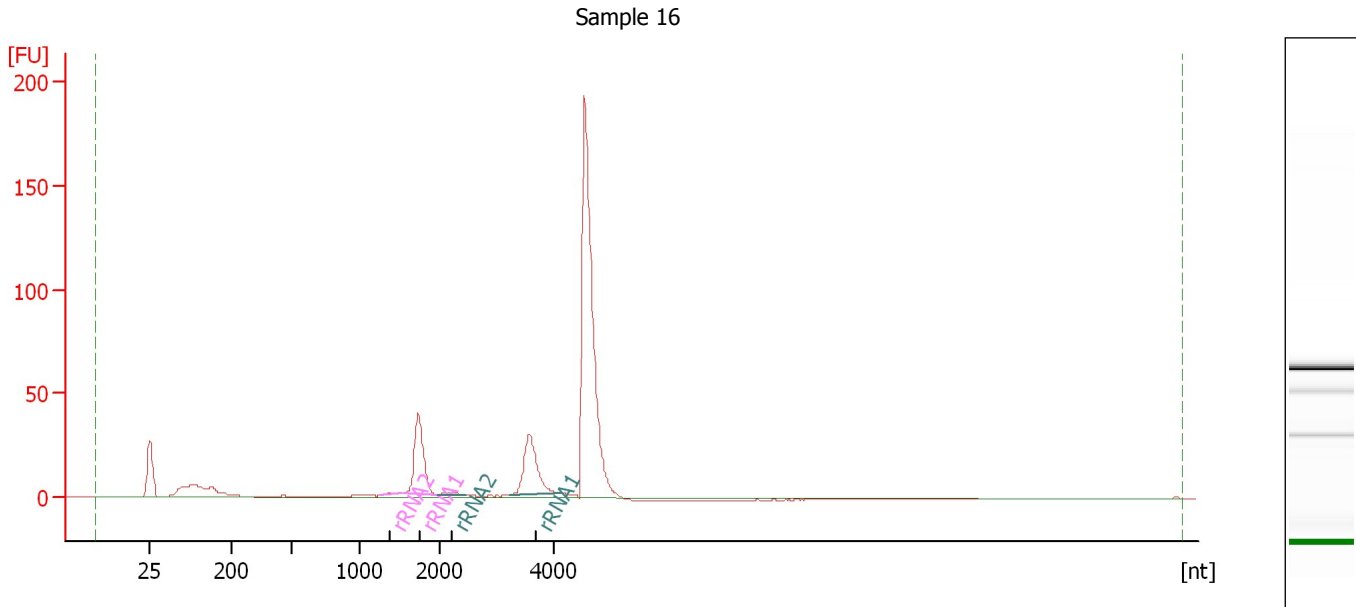
Fragment table for sample 4 : Sample 15

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,656	1,995	73.5	21.6
rRNA1	2,963	4,654	144.3	42.4

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Sample 16

RNA Area: 578.2 rRNA Contamination: 24.0 %
RNA Concentration: 4,641 pg/μl

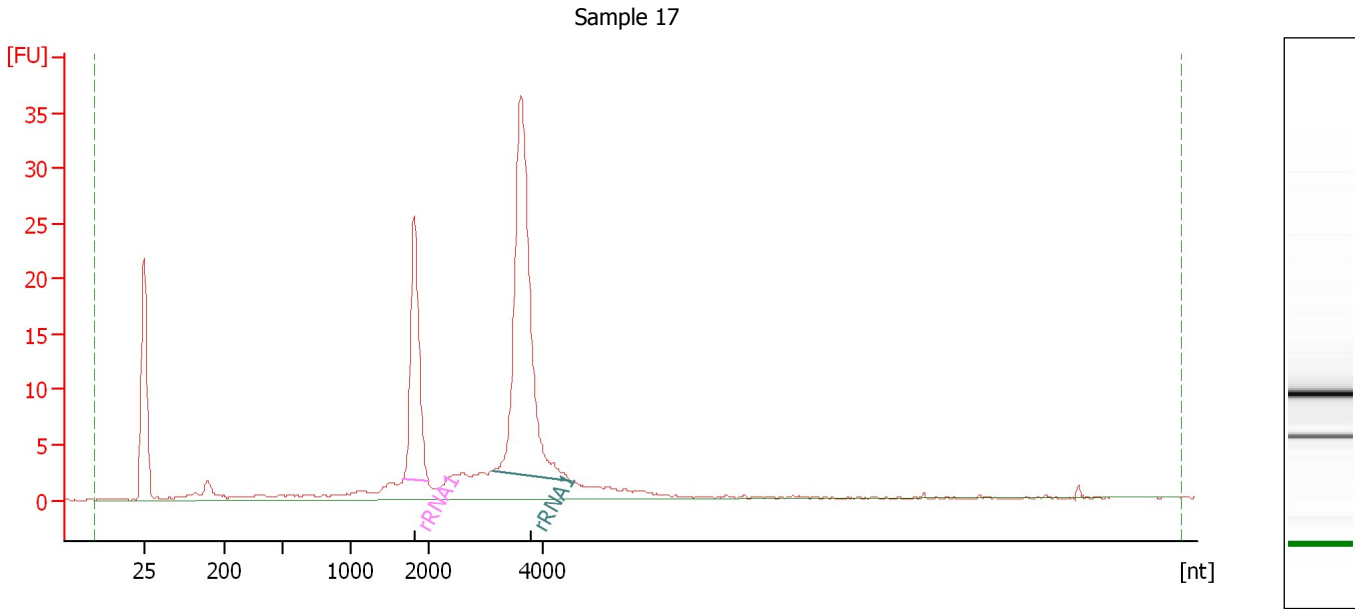
Fragment table for sample 5 : Sample 16

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,252	1,513	1.7	0.3
rRNA1	1,533	1,964	69.8	12.1
rRNA2	1,974	2,465	3.3	0.6
rRNA1	3,217	4,122	64.0	11.1

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Sample 17

RNA Area: 228.1 rRNA Contamination: 57.8 %
RNA Concentration: 1,831 pg/μl

Fragment table for sample 6 : Sample 17

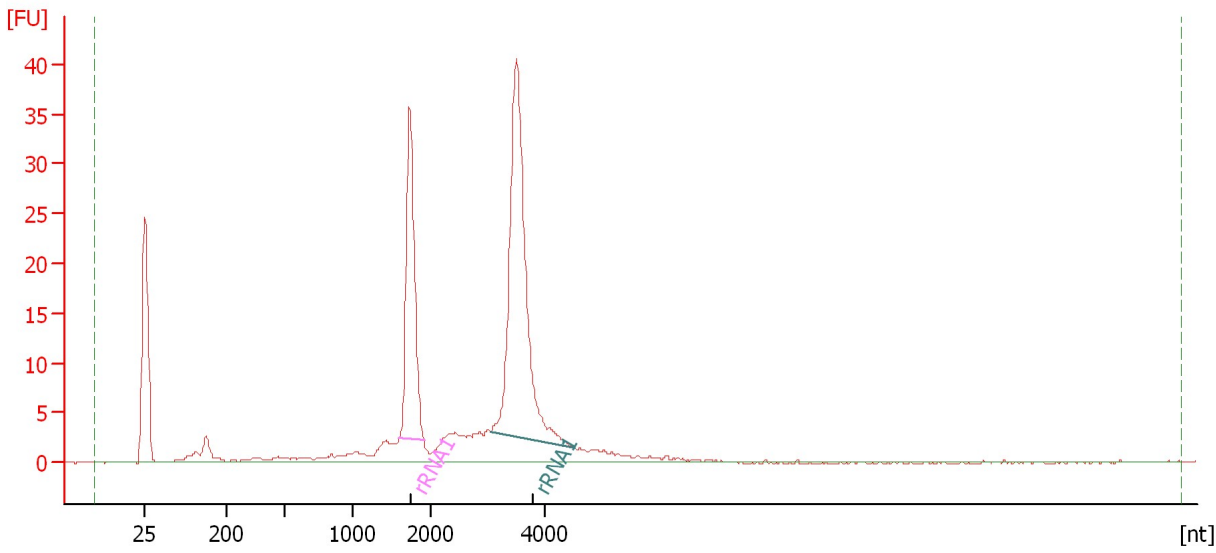
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,664	1,990	40.2	17.6
rRNA1	3,118	4,519	91.6	40.1

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...

Sample 18



Overall Results for sample 7 : Sample 18

RNA Area: 266.7 rRNA Contamination: 59.7 %
RNA Concentration: 2,141 pg/μl

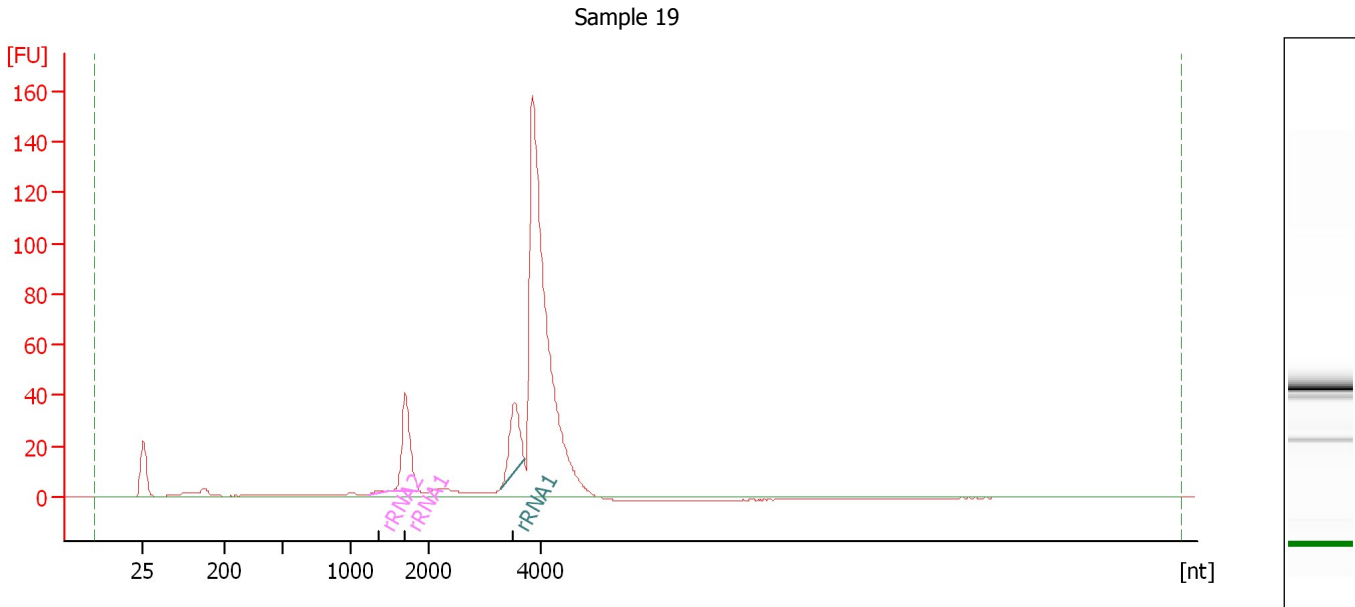
Fragment table for sample 7 : Sample 18

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,595	1,909	56.2	21.1
rRNA1	3,045	4,527	102.9	38.6

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Sample 19

RNA Area: 668.6 rRNA Contamination: 17.3 %
RNA Concentration: 5,367 pg/μl

Fragment table for sample 8 : Sample 19

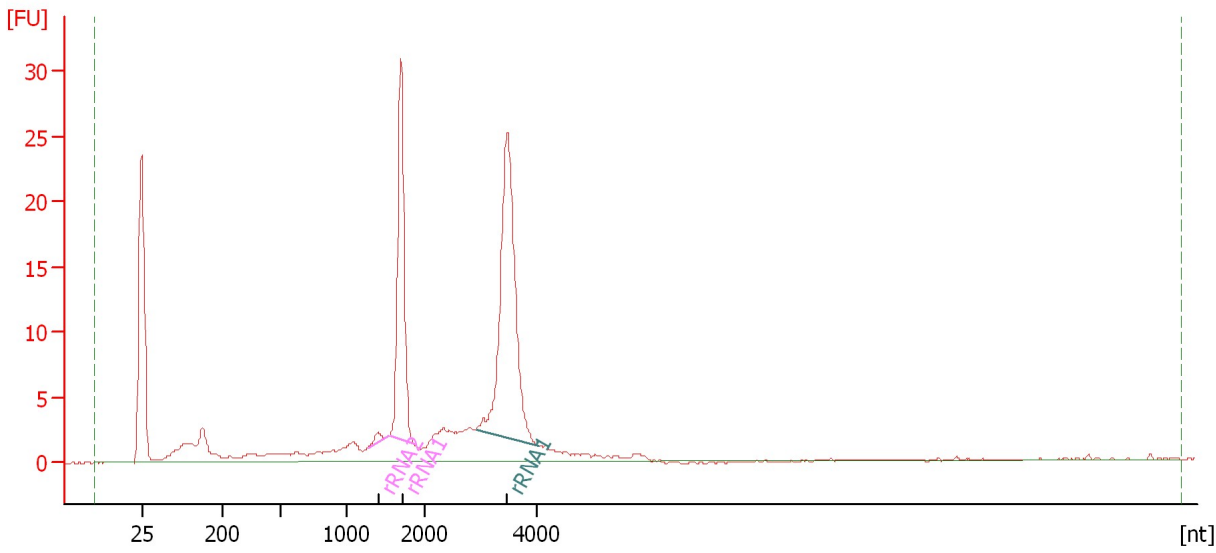
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,244	1,500	1.8	0.3
rRNA1	1,540	1,887	66.1	9.9
rRNA1	3,276	3,716	47.5	7.1

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...

Sample 20



Overall Results for sample 9 : Sample 20

RNA Area: 197.6 rRNA Contamination: 51.2 %
RNA Concentration: 1,586 pg/μl

Fragment table for sample 9 : Sample 20

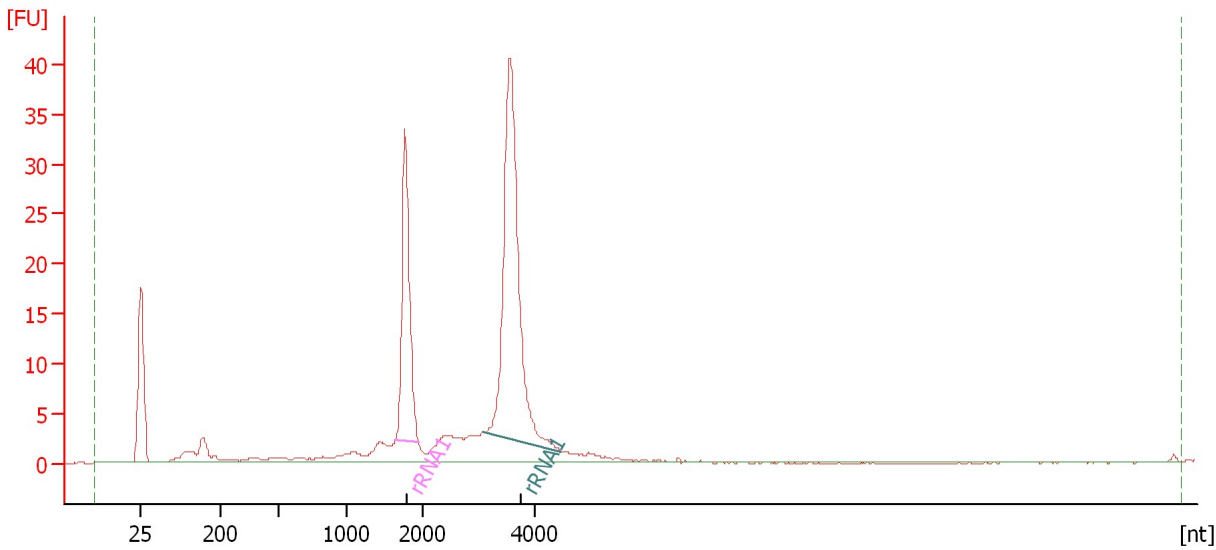
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,270	1,537	1.1	0.6
rRNA1	1,557	1,865	40.3	20.4
rRNA1	2,925	4,037	59.8	30.3

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...

Sample 21



Overall Results for sample 10 : Sample 21

RNA Area: 243.2 rRNA Contamination: 60.0 %
RNA Concentration: 1,952 pg/μl

Fragment table for sample 10 : Sample 21

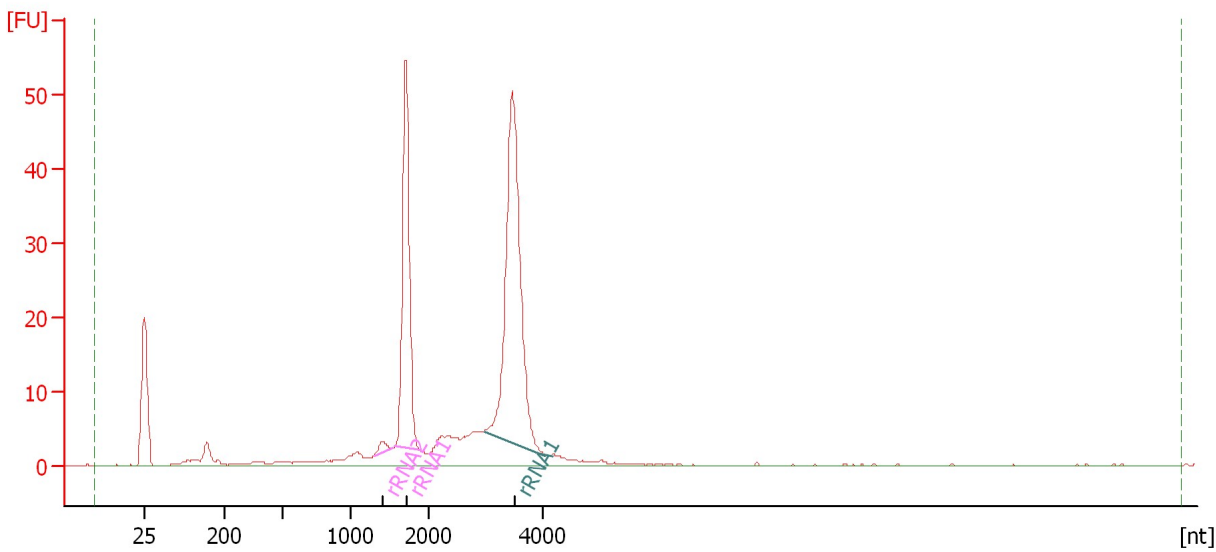
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,638	1,936	48.6	20.0
rRNA1	3,055	4,470	97.5	40.1

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Electropherogram Summary Continued ...

Sample 22



Overall Results for sample 11 : Sample 22

RNA Area: 317.7 rRNA Contamination: 61.6 %
RNA Concentration: 2,550 pg/μl

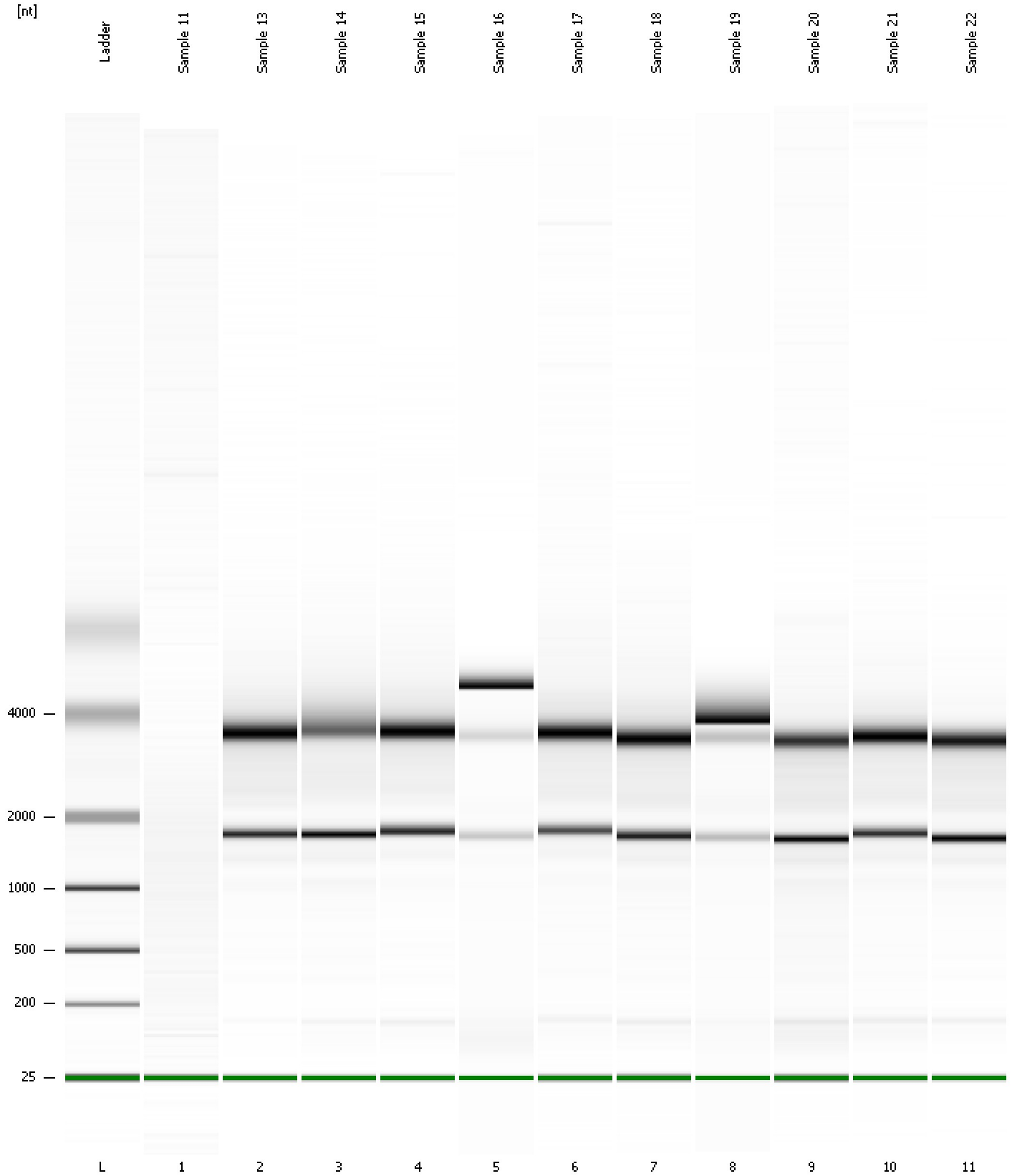
Fragment table for sample 11 : Sample 22

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	1,288	1,522	2.5	0.8
rRNA1	1,562	1,888	75.5	23.8
rRNA1	2,977	4,038	117.8	37.1

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
Modified: 11/30/2015 3:10:05 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad

Created: 11/30/2015 2:45:01 PM
 Modified: 11/30/2015 3:10:05 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		11/30/2015 3:10:03 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-30\2015-11-30_003.xad)		Instrument	Run		11/30/2015 2:45:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/30/2015 2:45:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/30/2015 2:45:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/30/2015 2:45:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/30/2015 2:45:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/30/2015 2:45:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/30/2015 2:45:06 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1