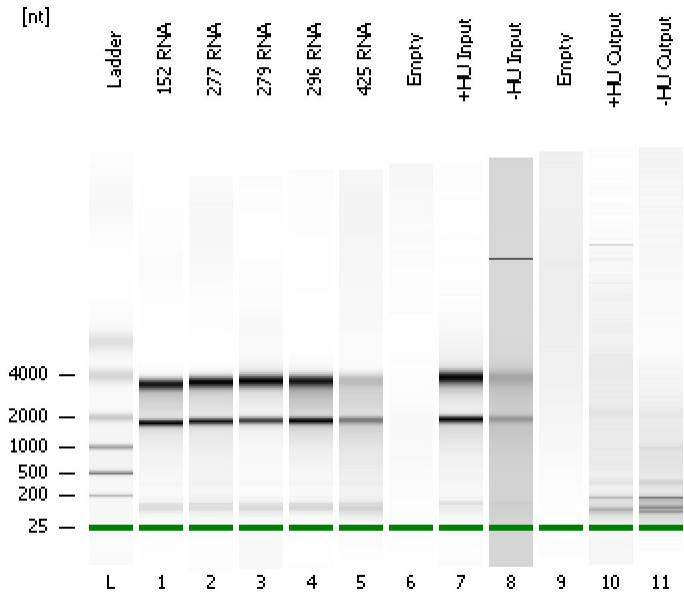


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 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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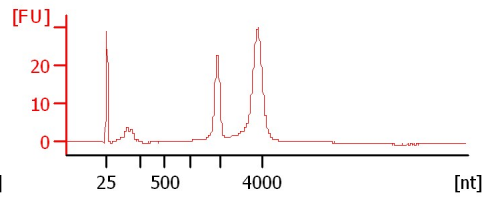
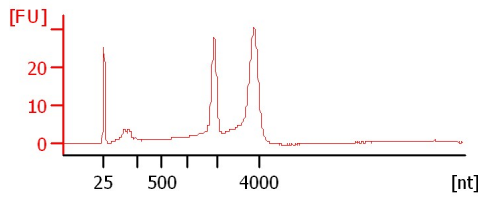
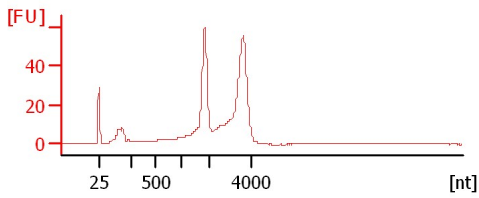
Chip Information:

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

152 RNA

277 RNA

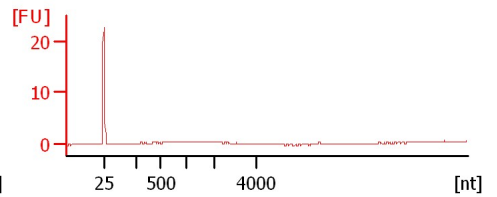
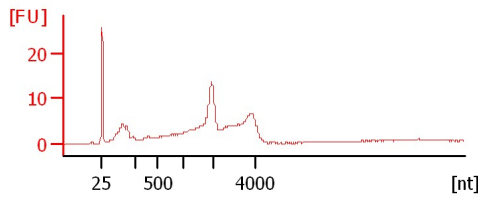
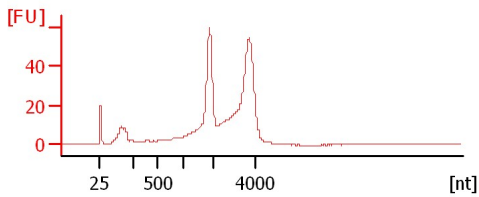
279 RNA



296 RNA

425 RNA

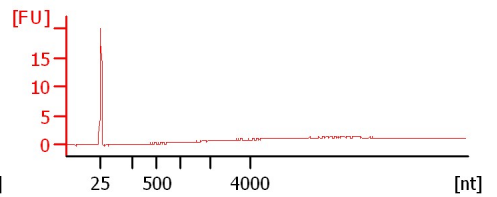
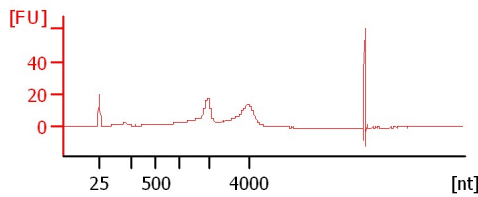
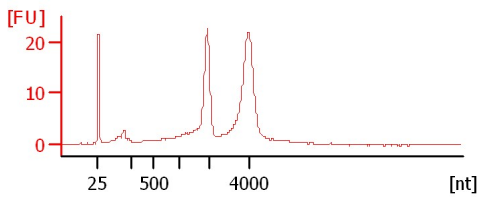
Empty



+HU Input

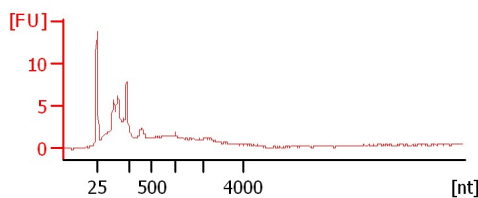
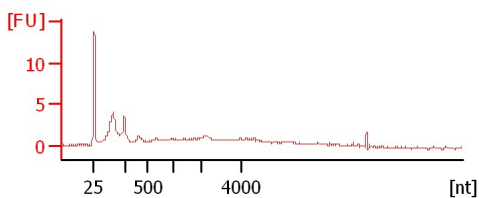
-HU Input

Empty



+HU Output

-HU Output



Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
152 RNA		✓		
277 RNA		✓		
279 RNA		✓		
296 RNA		✓		
425 RNA		✓		
Empty		✓		
+HU Input		✓		
-HU Input		✓		
Empty		✓		
+HU Output		✓		
-HU Output		✓		
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 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

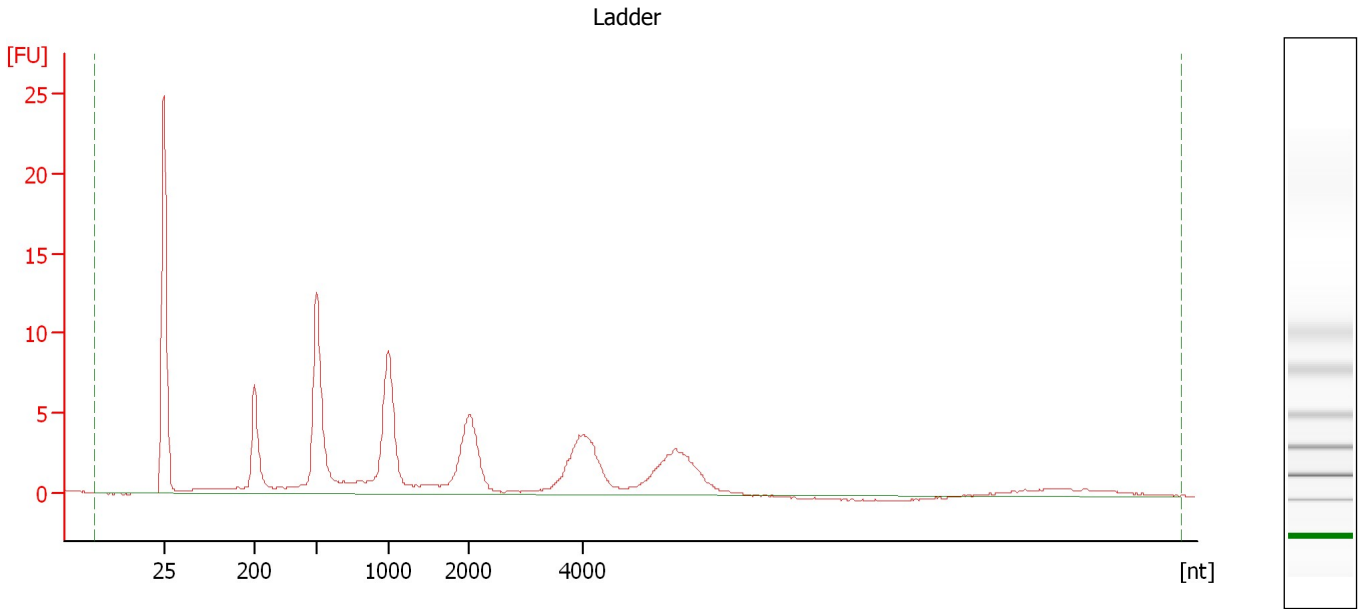
Ladder

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\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary



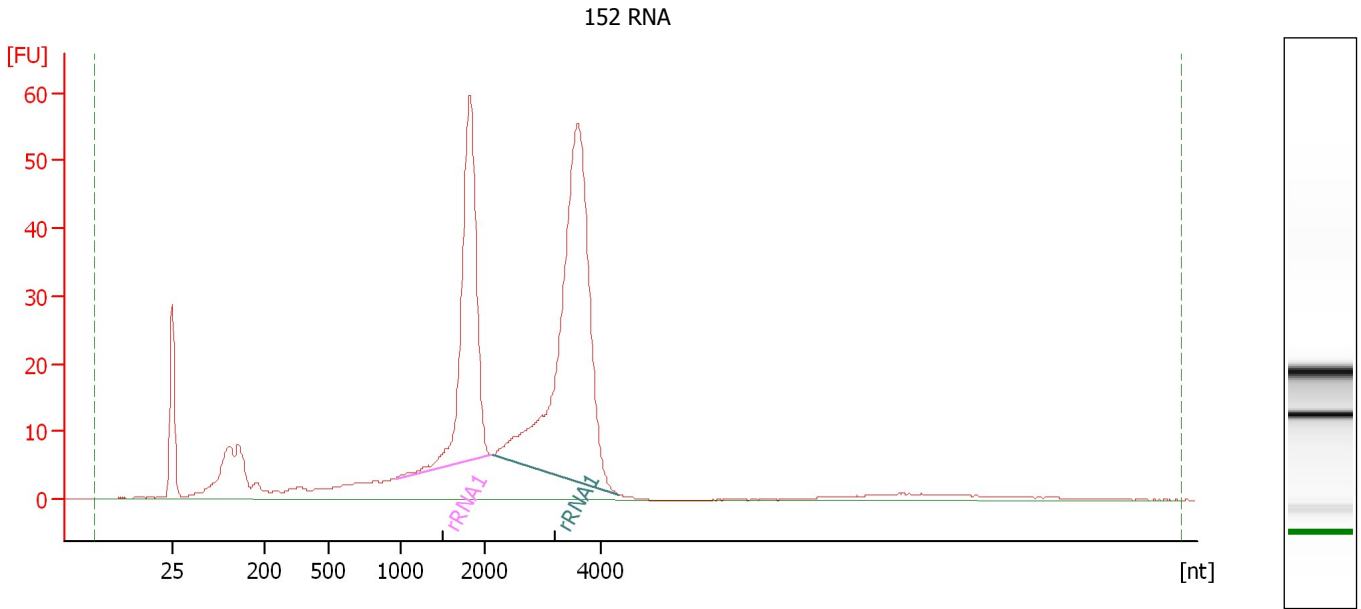
Overall Results for Ladder

RNA Area: 136.2 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 152 RNA

RNA Area: 674.8 rRNA Contamination: 79.3 %
RNA Concentration: 4,956 pg/μl

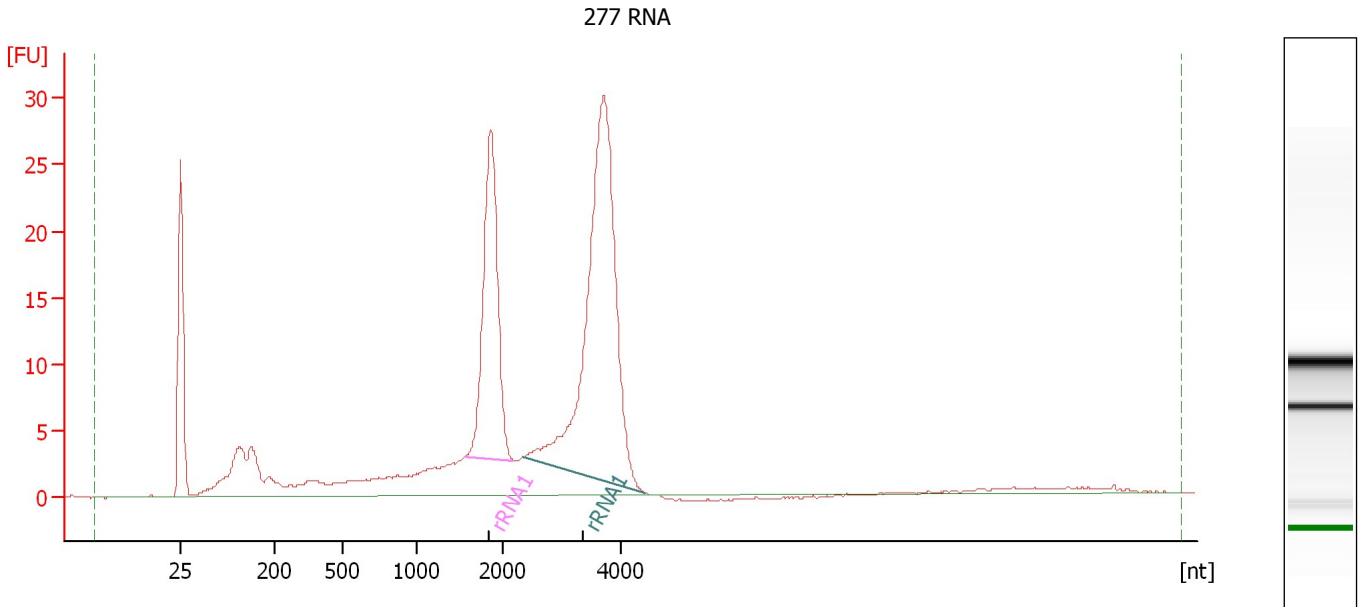
Fragment table for sample 1 : 152 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	962	2,104	144.4	21.4
rRNA2	1,023	2,104	142.0	21.0
rRNA1	2,131	4,289	249.0	36.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 277 RNA

RNA Area: 326.7 rRNA Contamination: 57.8 %
RNA Concentration: 2,399 pg/μl

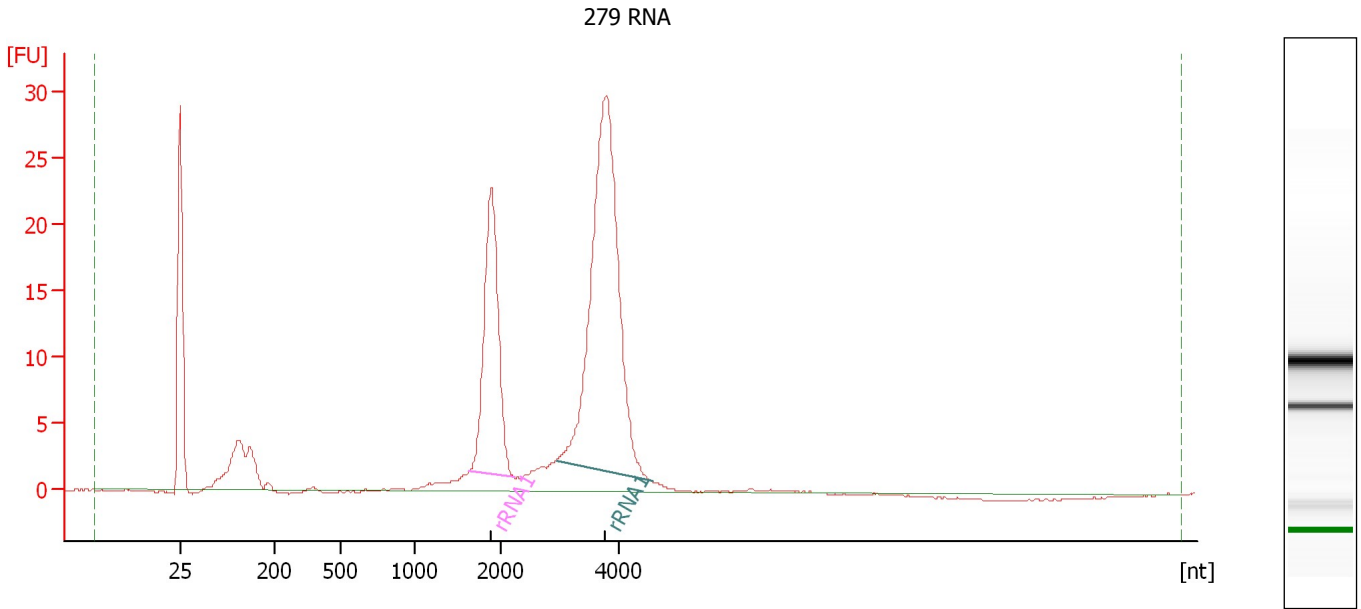
Fragment table for sample 2 : 277 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,554	2,190	63.3	19.4
rRNA1	2,337	4,399	125.4	38.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 279 RNA

RNA Area: 248.1 rRNA Contamination: 68.6 %
RNA Concentration: 1,822 pg/μl

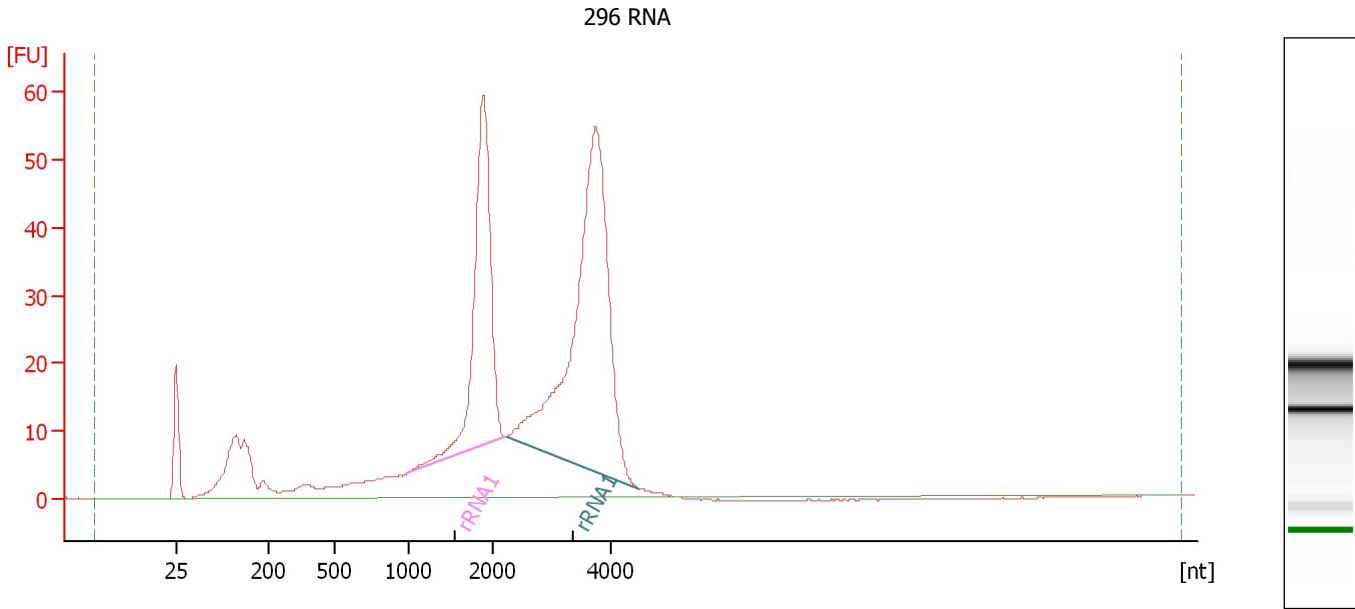
Fragment table for sample 3 : 279 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,636	2,229	54.7	22.0
rRNA1	2,941	4,565	115.4	46.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 296 RNA

RNA Area: 740.1 rRNA Contamination: 76.7 %
RNA Concentration: 5,435 pg/μl

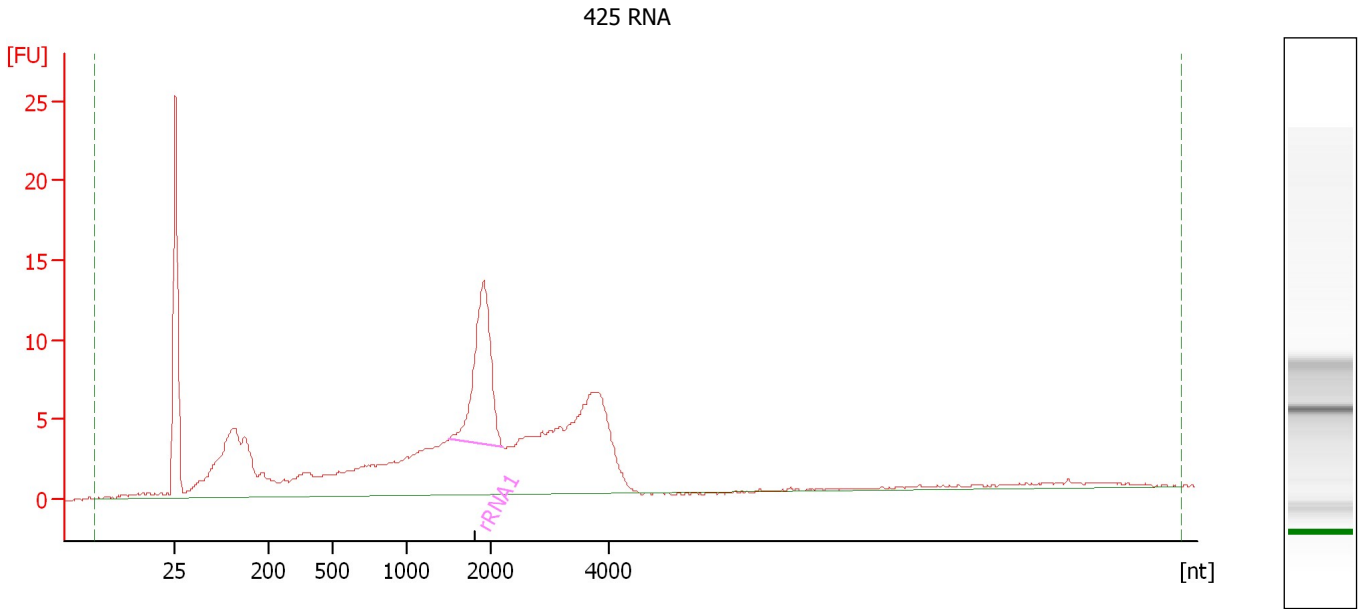
Fragment table for sample 4 : 296 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	992	2,215	149.8	20.2
rRNA2	1,036	2,215	148.6	20.1
rRNA1	2,242	4,497	269.1	36.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 425 RNA

RNA Area: 244.4 rRNA Contamination: 12.5 %
RNA Concentration: 1,795 pg/μl

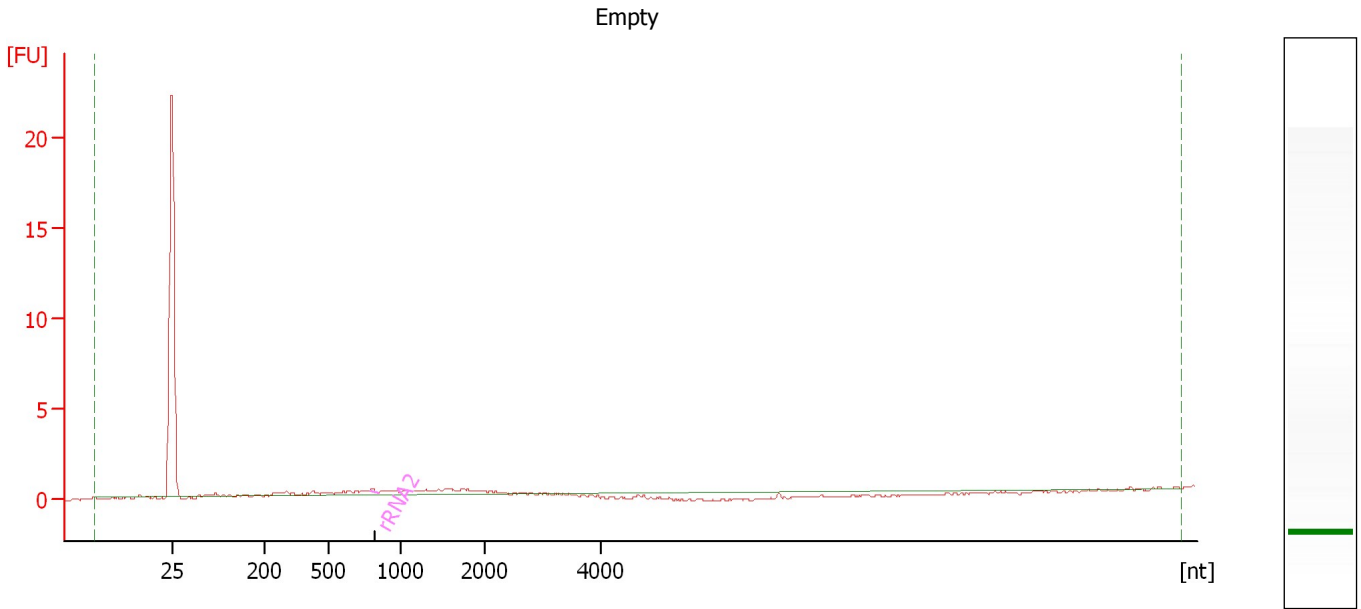
Fragment table for sample 5 : 425 RNA

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,495	2,201	30.5	12.5

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Empty

RNA Area: 5.6 rRNA Contamination: 2.9 %
RNA Concentration: 41 pg/μl

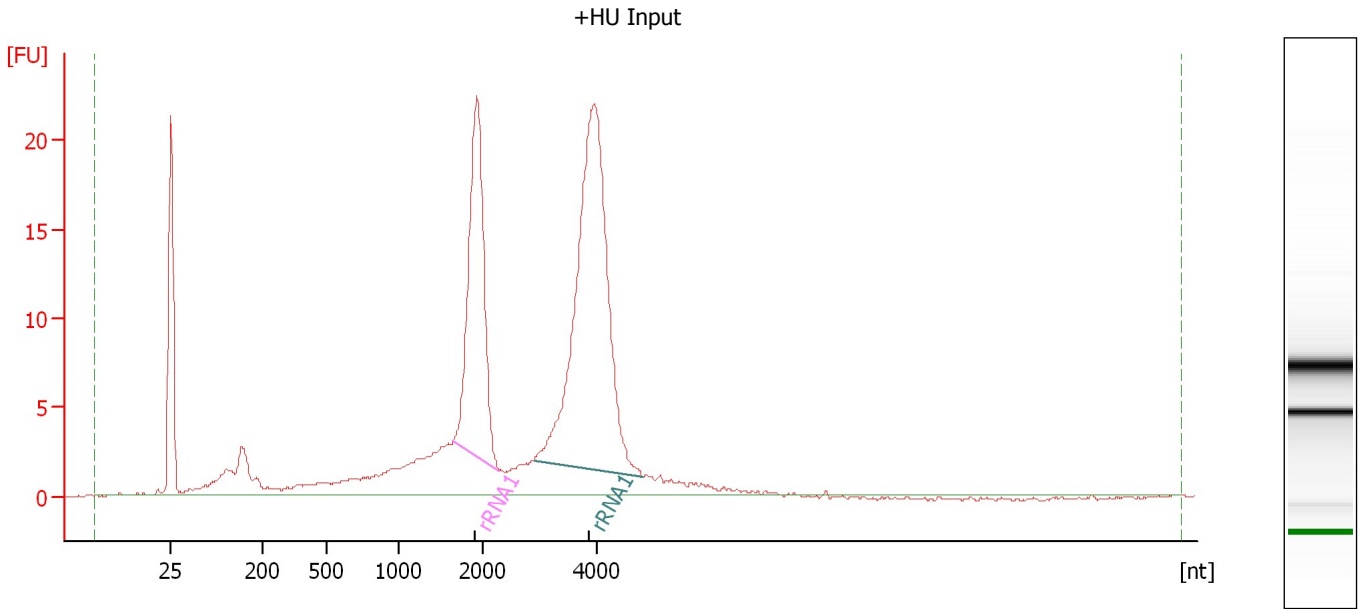
Fragment table for sample 6 : Empty

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	781	841	0.2	2.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : +HU Input

RNA Area: 275.1 rRNA Contamination: 56.1 %
RNA Concentration: 2,020 pg/μl

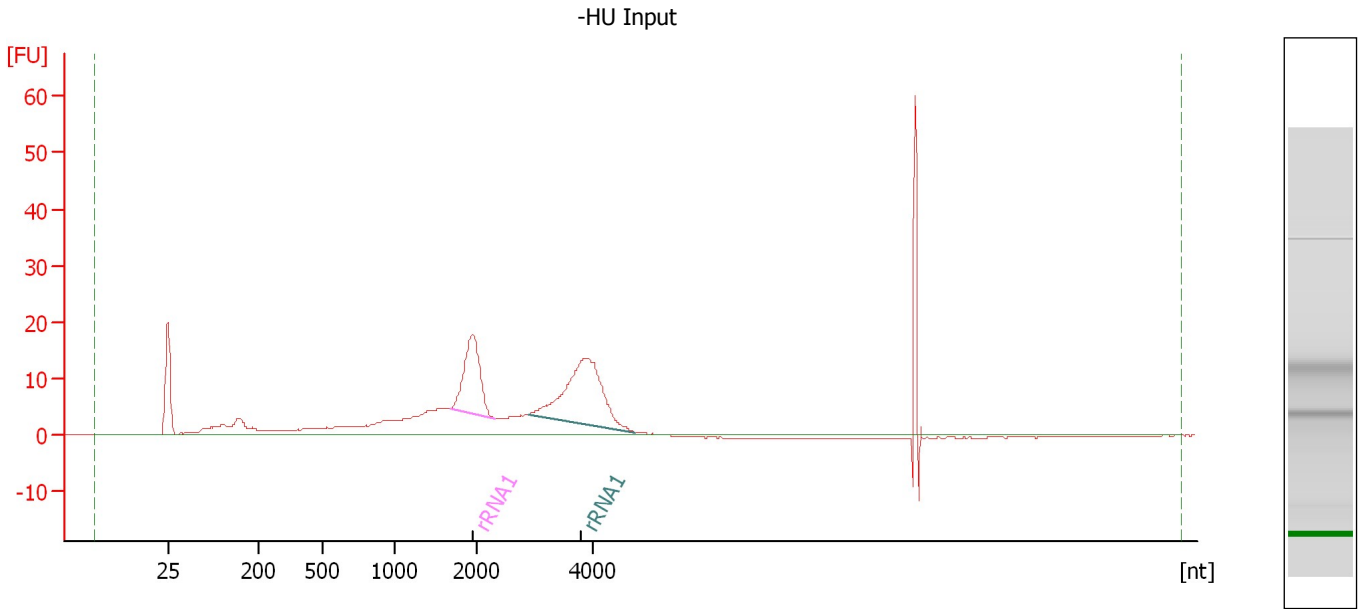
Fragment table for sample 7 : +HU Input

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,658	2,296	55.6	20.2
rRNA1	2,904	4,782	98.9	35.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : -HU Input

RNA Area: 300.6 rRNA Contamination: 35.5 %
RNA Concentration: 2,207 pg/μl

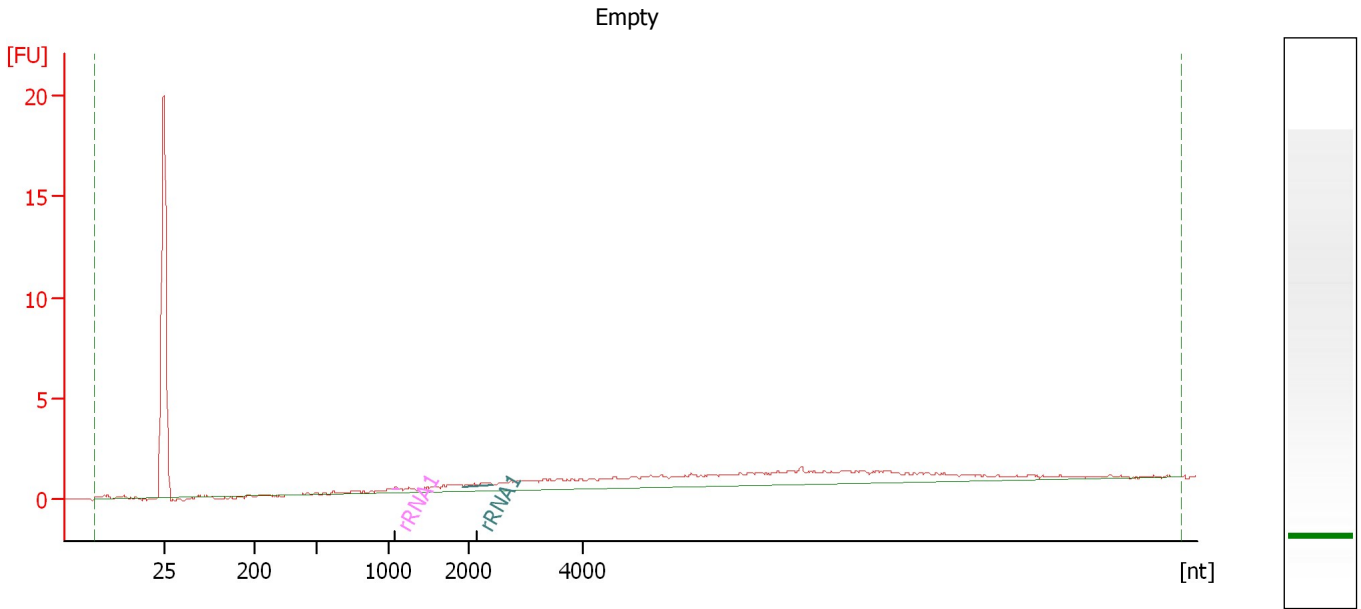
Fragment table for sample 8 : -HU Input

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,683	2,310	40.6	13.5
rRNA1	2,908	4,744	66.3	22.0

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Empty

RNA Area: 36.6 rRNA Contamination: 1.1 %
RNA Concentration: 269 pg/μl

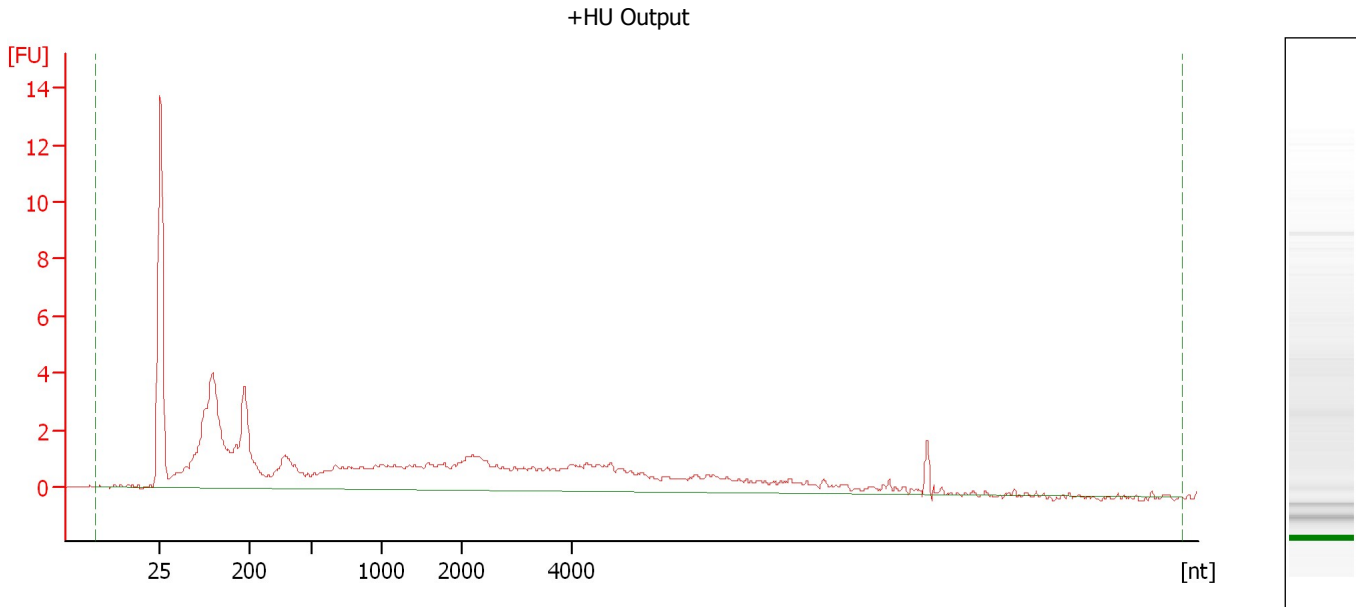
Fragment table for sample 9 : Empty

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,058	1,137	0.1	0.2
rRNA1	1,921	2,408	0.3	0.9

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



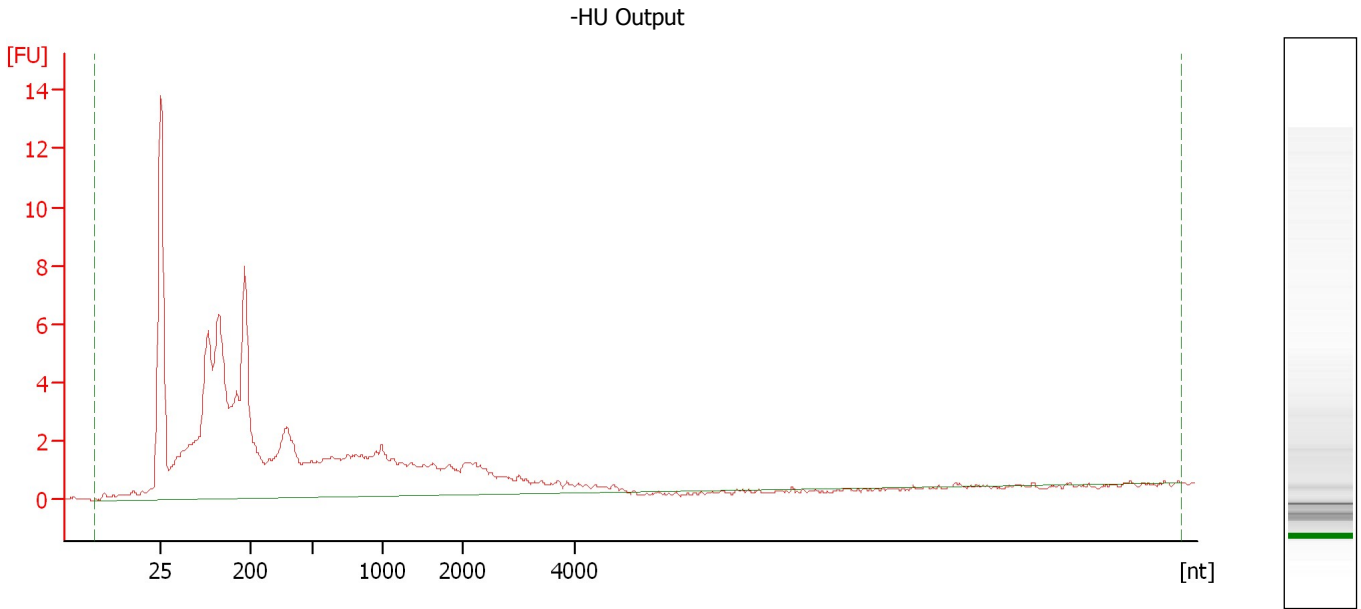
Overall Results for sample 10 : +HU Output

RNA Area: 100.3 rRNA Contamination: 0.0 %
RNA Concentration: 736 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Electropherogram Summary Continued ...



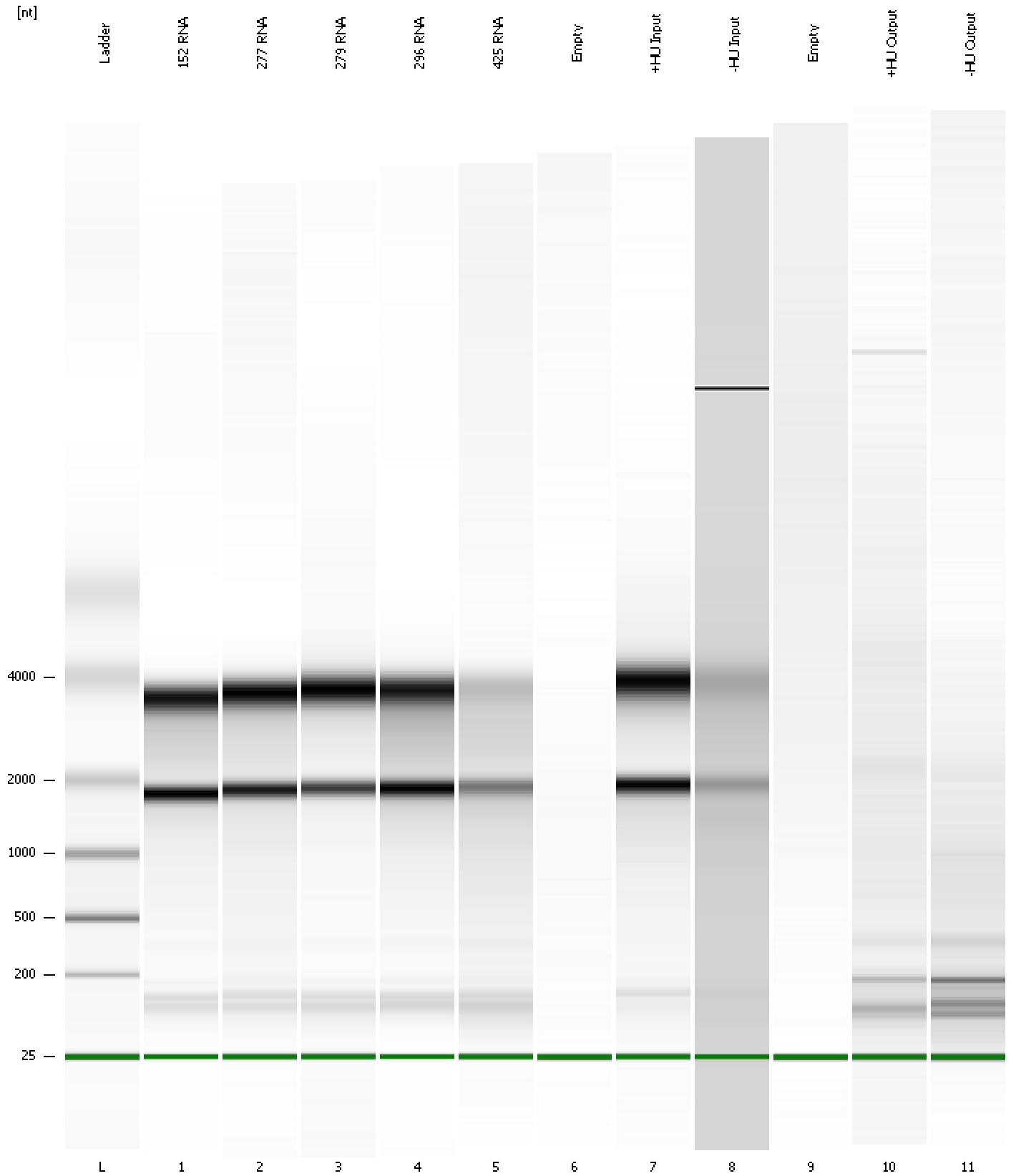
Overall Results for sample 11 : -HU Output

RNA Area: 142.1 rRNA Contamination: 0.0 %
RNA Concentration: 1,044 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
Modified: 11/28/2016 4:13:06 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad

Created: 11/28/2016 3:47:12 PM
 Modified: 11/28/2016 4:13:06 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		11/28/2016 4:13:05 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-11-28\2016-11-28_004.xad)		Instrument	Run		11/28/2016 3:47:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/28/2016 3:47:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/28/2016 3:47:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/28/2016 3:47:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/28/2016 3:47:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/28/2016 3:47:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/28/2016 3:47:17 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1