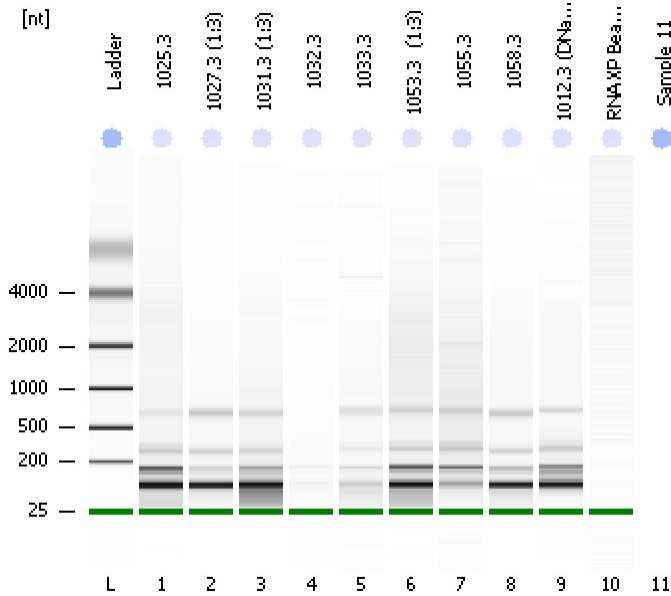


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electrophoresis File Run Summary



Instrument Information:

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

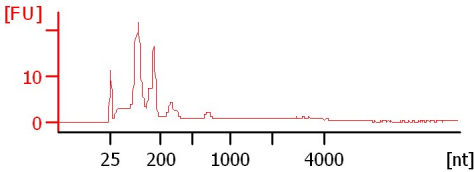
Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy
Assay Class: Eukaryote Total RNA Pico
Version: 2.6
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)
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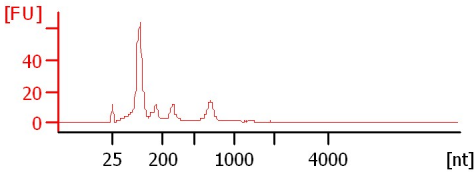
Chip Information:

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

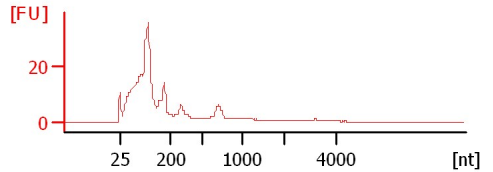
1025.3
ribo-depleted RNA
RIN: 2.40



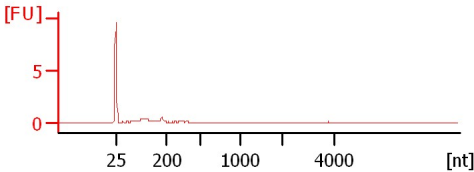
1027.3 (1:3)
ribo-depleted RNA
RIN: 2.20



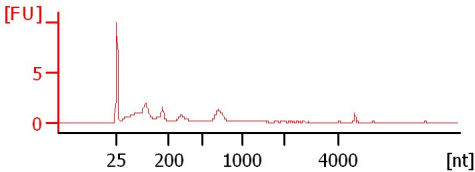
1031.3 (1:3)
ribo-depleted RNA
RIN: 2.40



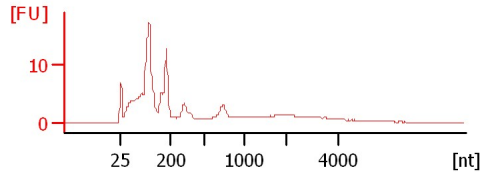
1032.3
ribo-depleted RNA
RIN:1



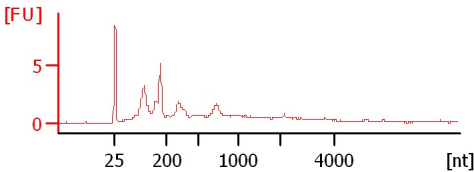
1033.3
ribo-depleted RNA
RIN: 1.90



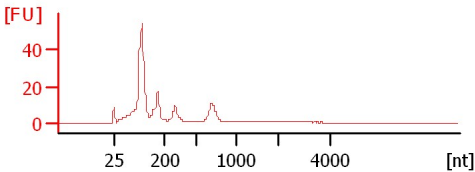
1053.3 (1:3)
ribo-depleted RNA
RIN: 2.40



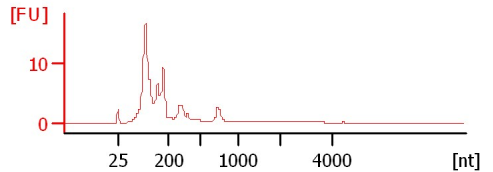
1055.3
ribo-depleted RNA
RIN: 2.50



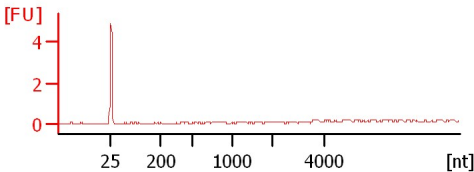
1058.3
ribo-depleted RNA
RIN: 2.30



1012.3 (DNase Treated and Cleaned aft...
ribo-depleted RNA
RIN: 2.30



RNA XP Bead Test - blank
RIN:1



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
 Modified: 11/6/2014 4:12:03 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1025.3	ribo-depleted RNA	✓	RIN: 2.40	
1027.3 (1:3)	ribo-depleted RNA	✓	RIN: 2.20	
1031.3 (1:3)	ribo-depleted RNA	✓	RIN: 2.40	
1032.3	ribo-depleted RNA	✓	RIN:1	
1033.3	ribo-depleted RNA	✓	RIN: 1.90	
1053.3 (1:3)	ribo-depleted RNA	✓	RIN: 2.40	
1055.3	ribo-depleted RNA	✓	RIN: 2.50	
1058.3	ribo-depleted RNA	✓	RIN: 2.30	
1012.3 (DNase Treated and Cleaned after ribo-dep.)	ribo-depleted RNA	✓	RIN: 2.30	
RNA XP Bead Test - blank		✓	RIN:1	
Sample 11				
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 17
Maximum Visible Range [s] : 70
Start Analysis Time Range [s] : 18
End Analysis Time Range [s] : 69
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] : 18
Integration End Time [s] : 69
Slope Threshold : 0.6
Height Threshold [FU] : 0.5
Area Threshold : 0.2
Width Threshold [s] : 0.3
Baseline Plateau [s] : 6

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

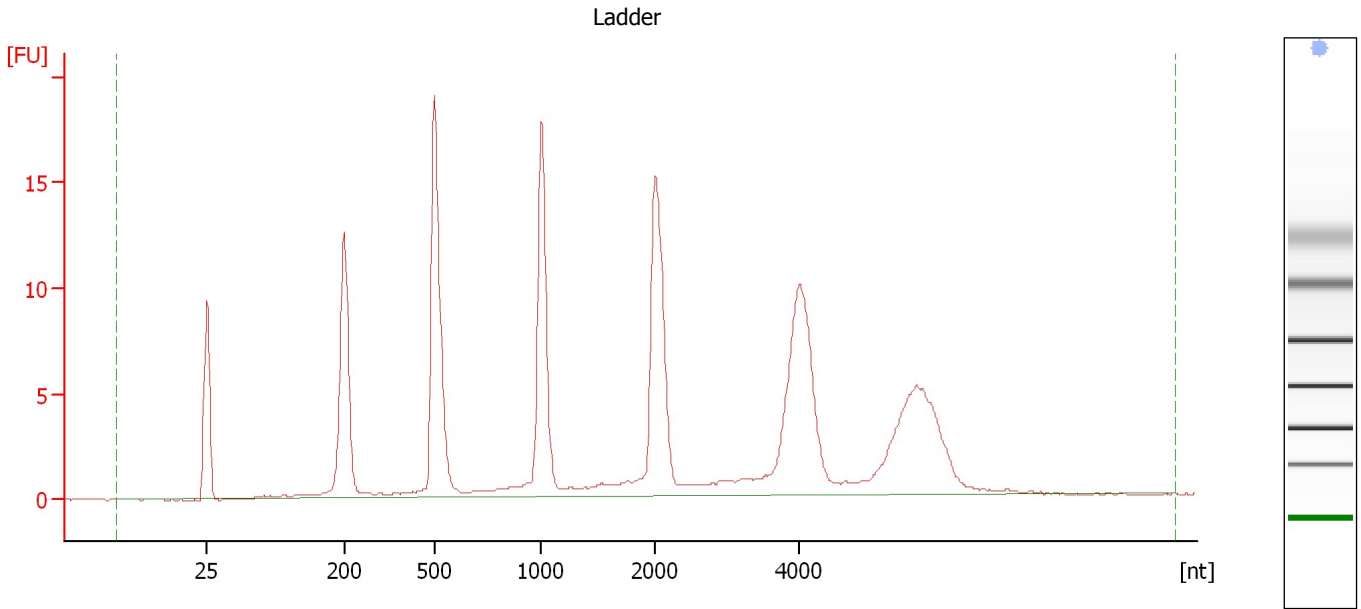
Ladder

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

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary



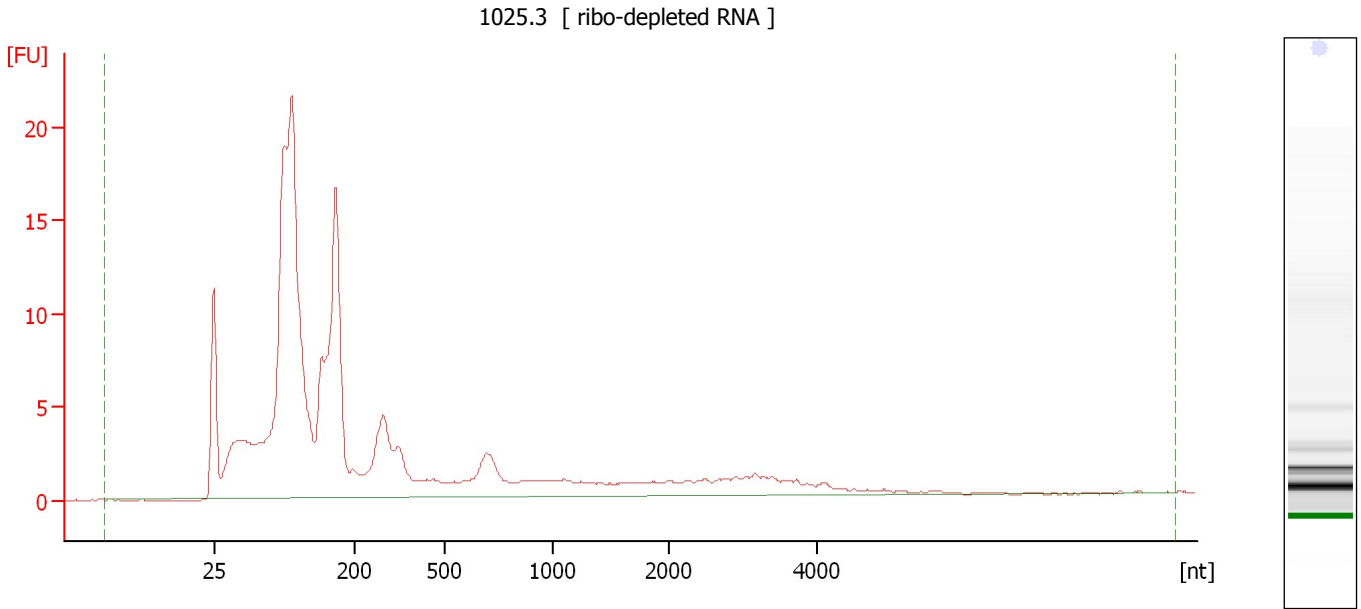
Overall Results for Ladder

RNA Area:	161.4	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...



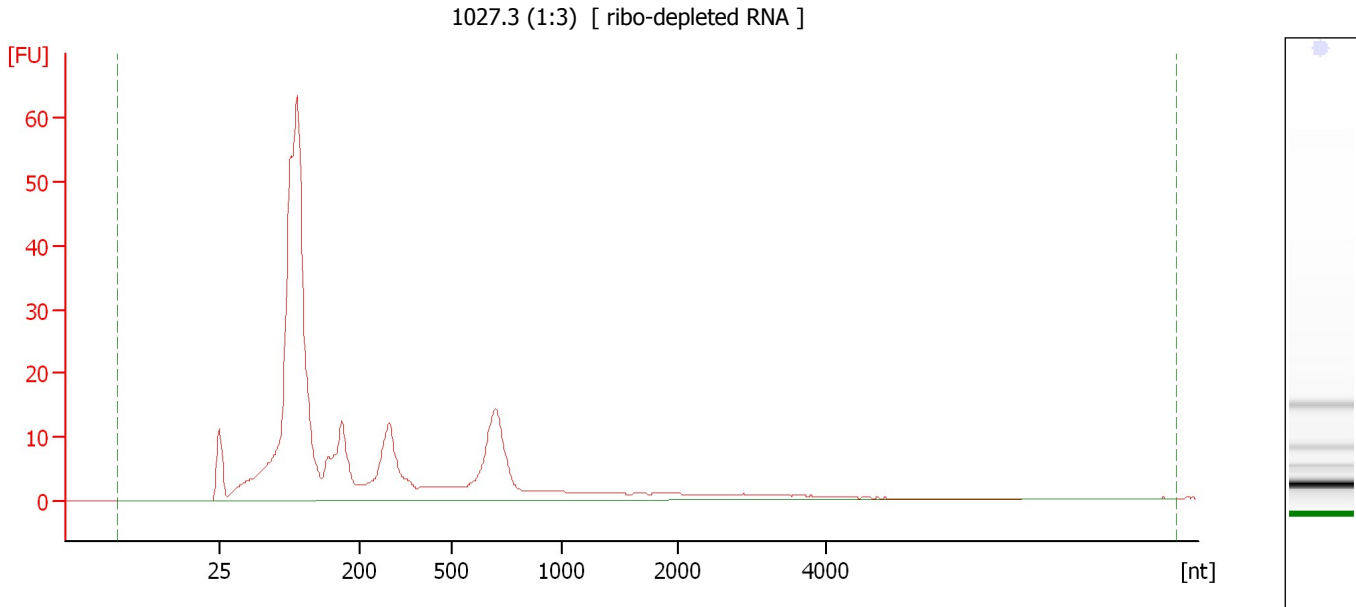
Overall Results for sample 1 : 1025.3

RNA Area:	214.6	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	1,329 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 1027.3 (1:3)

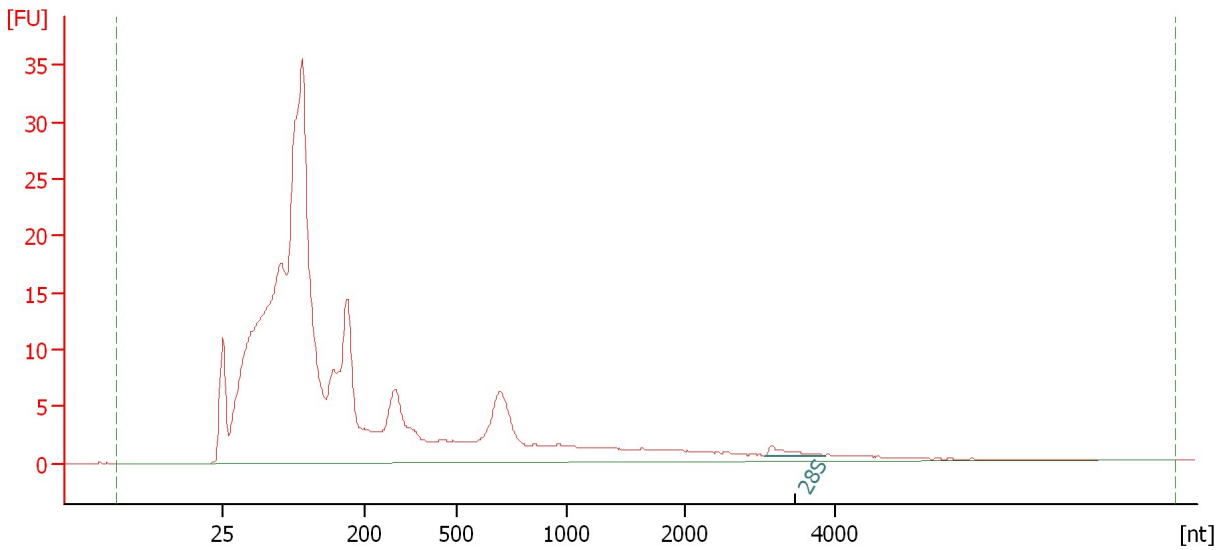
RNA Area:	406.9	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	2,520 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.20

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...

1031.3 (1:3) [ribo-depleted RNA]



Overall Results for sample 3 : 1031.3 (1:3)

RNA Area:	389.6	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	2,413 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

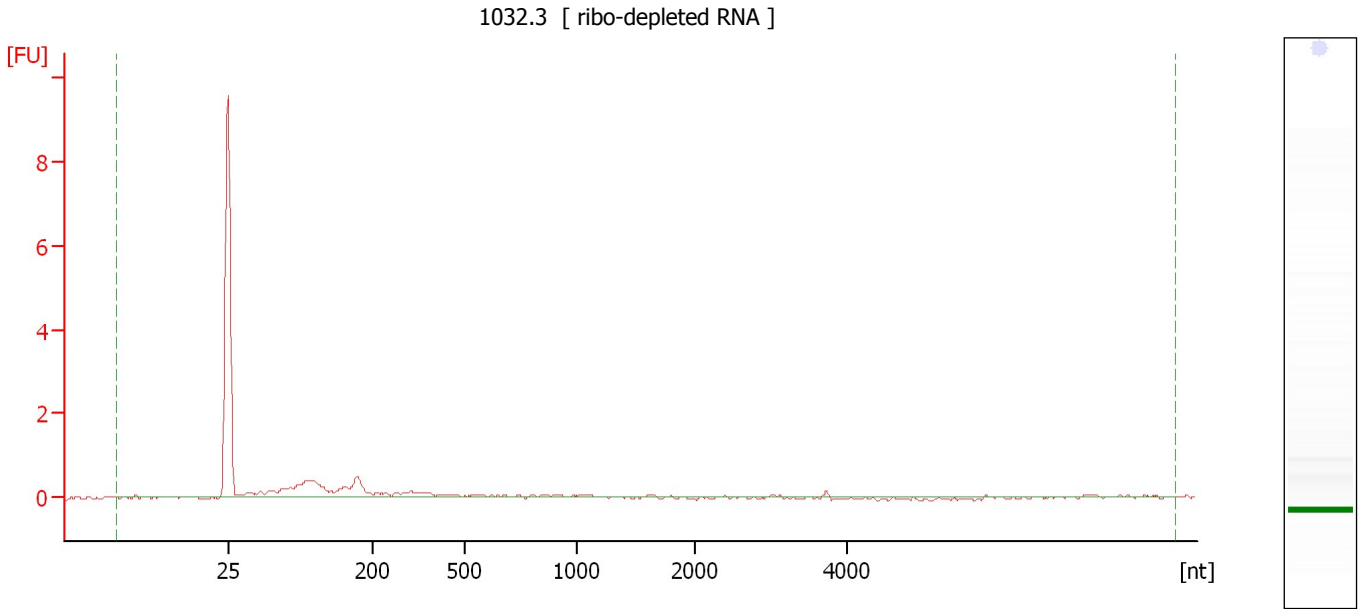
Fragment table for sample 3 : 1031.3 (1:3)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	3,072	3,877	1.7	0.4

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 1032.3

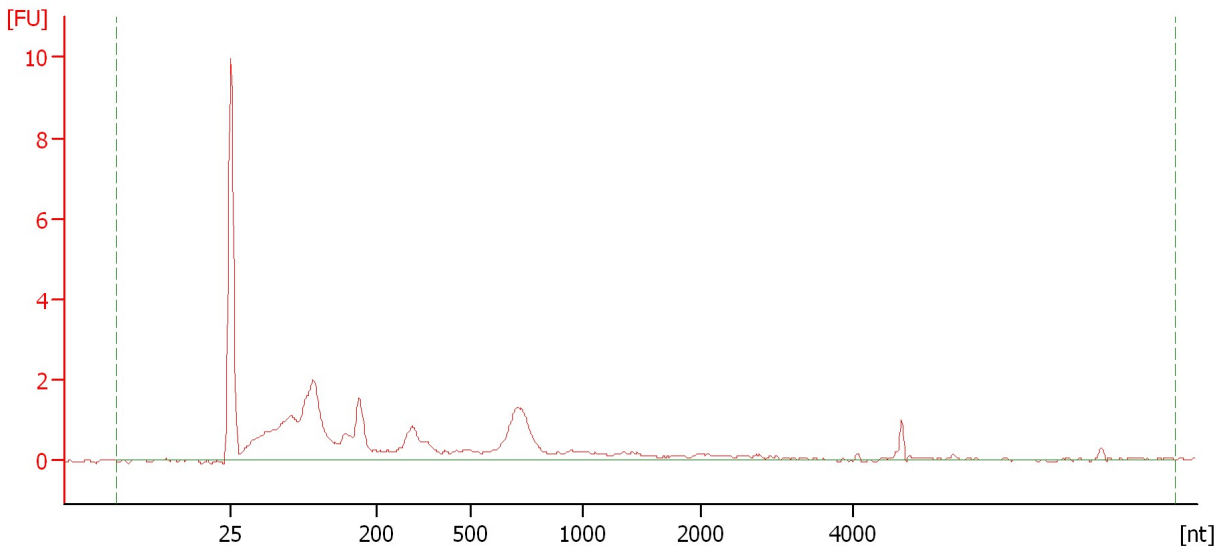
RNA Area:	6.4	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	40 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...

1033.3 [ribo-depleted RNA]



Overall Results for sample 5 : 1033.3

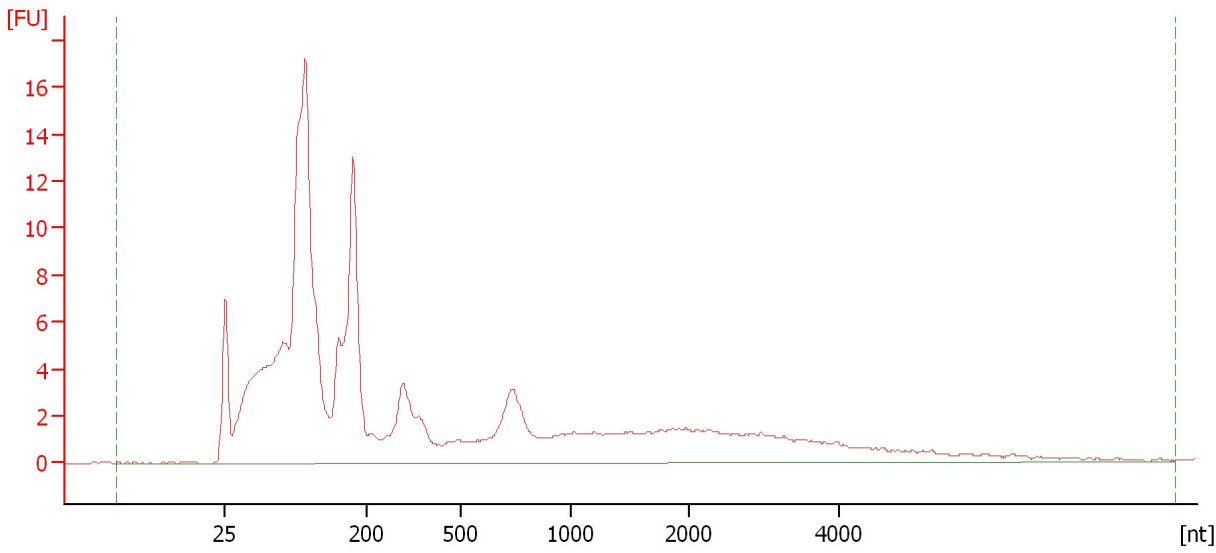
RNA Area:	31.7	RNA Integrity Number (RIN):	1.9 (B.02.08)
RNA Concentration:	196 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.90

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...

1053.3 (1:3) [ribo-depleted RNA]



Overall Results for sample 6 : 1053.3 (1:3)

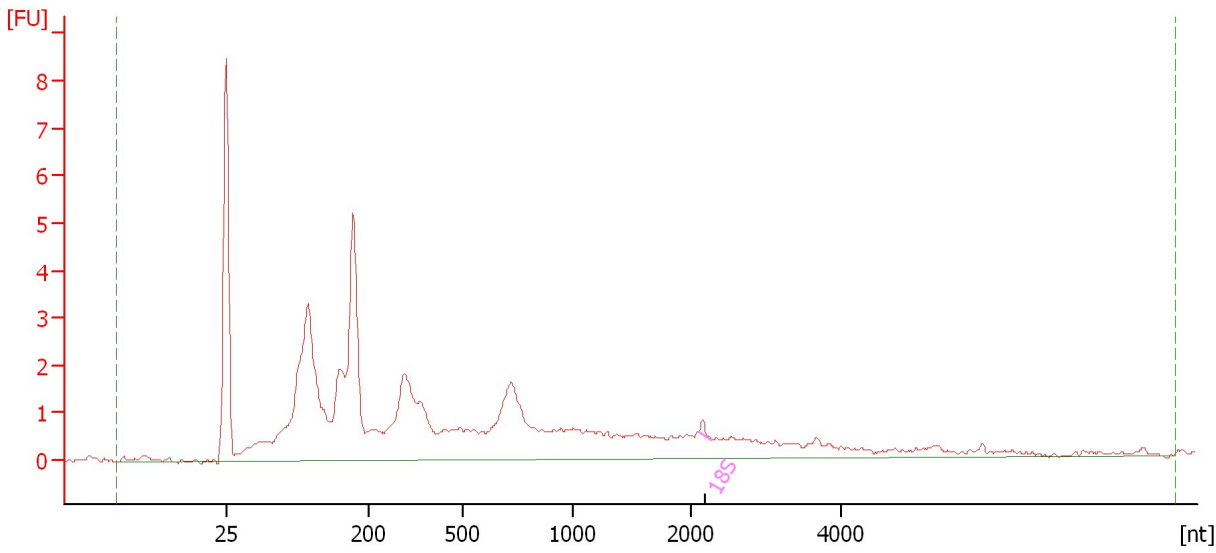
RNA Area:	204.0	RNA Integrity Number (RIN):	2.4 (B.02.08)
RNA Concentration:	1,264 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.40

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...

1055.3 [ribo-depleted RNA]



Overall Results for sample 7 : 1055.3

RNA Area:	63.9	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	396 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

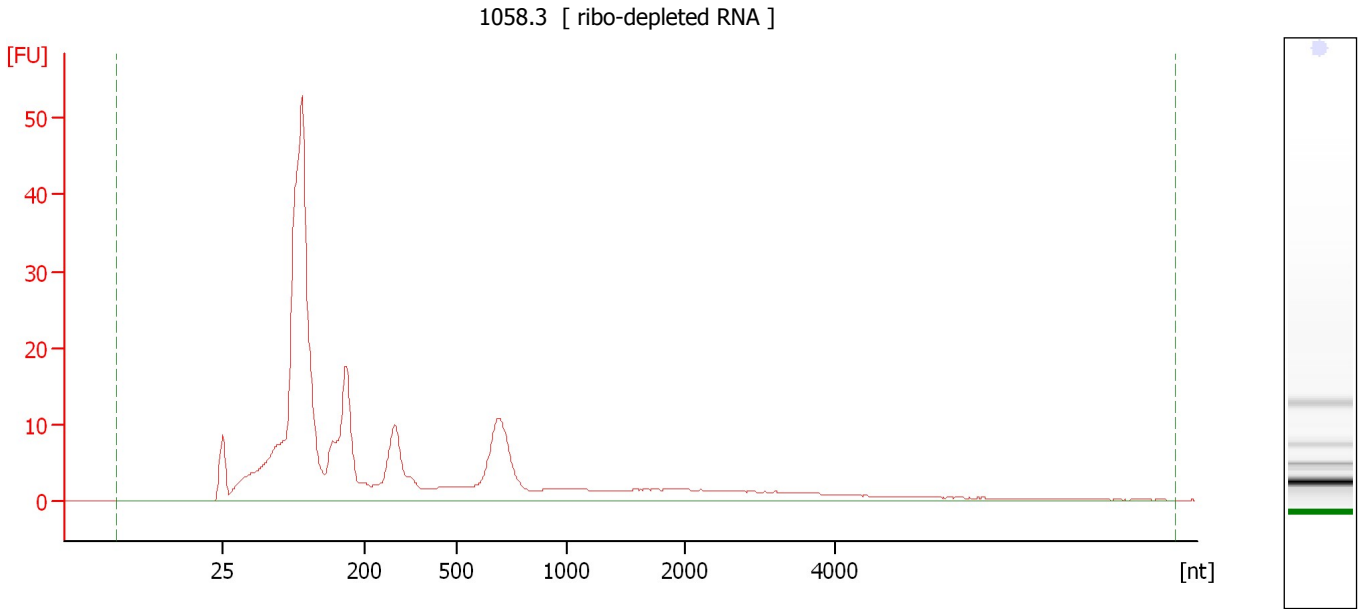
Fragment table for sample 7 : 1055.3

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,086	2,257	0.2	0.3

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 1058.3

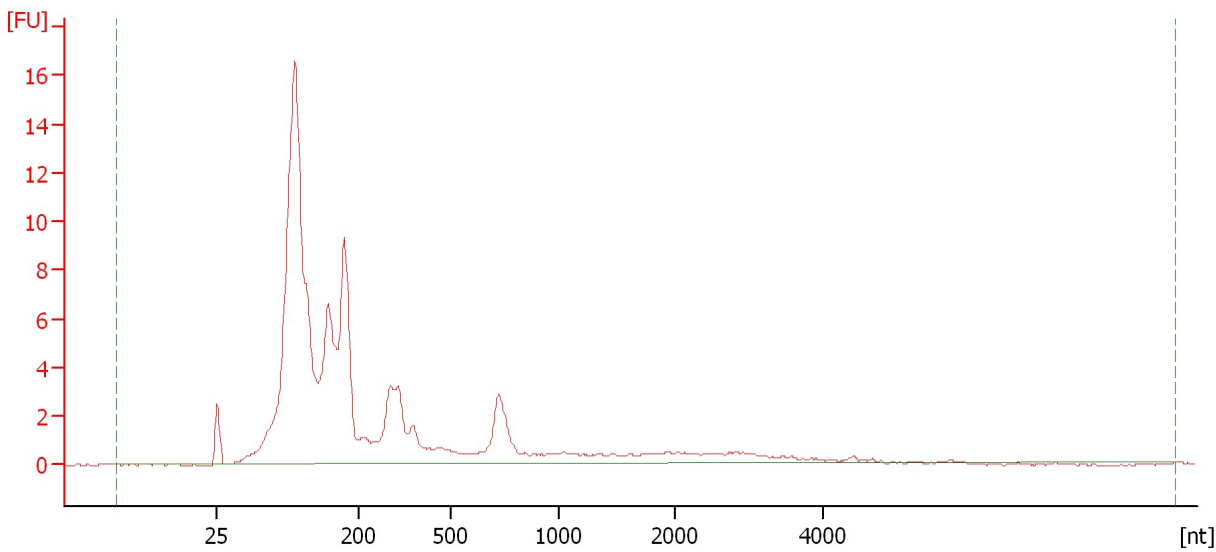
RNA Area:	369.7	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	2,290 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...

1012.3 (DNase Treated and Cleaned after ribo-dep.) [ribo-depleted RNA]



Overall Results for sample 9 : 1012.3 (DNase Treated and Cleaned after ribo-dep.)

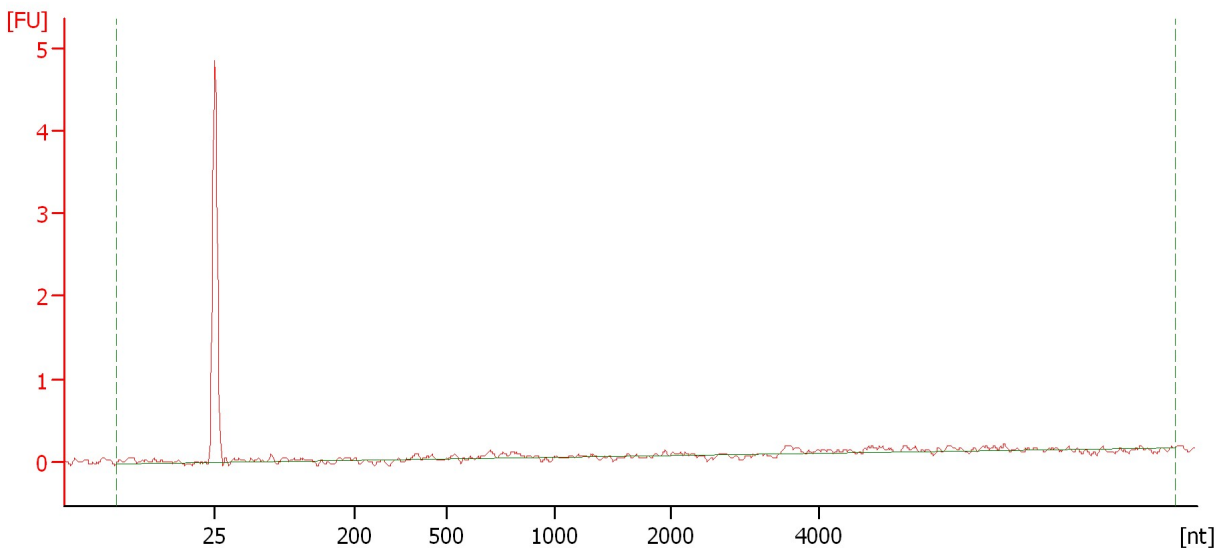
RNA Area:	130.8	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	810 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.30

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Electropherogram Summary Continued ...

RNA XP Bead Test - blank



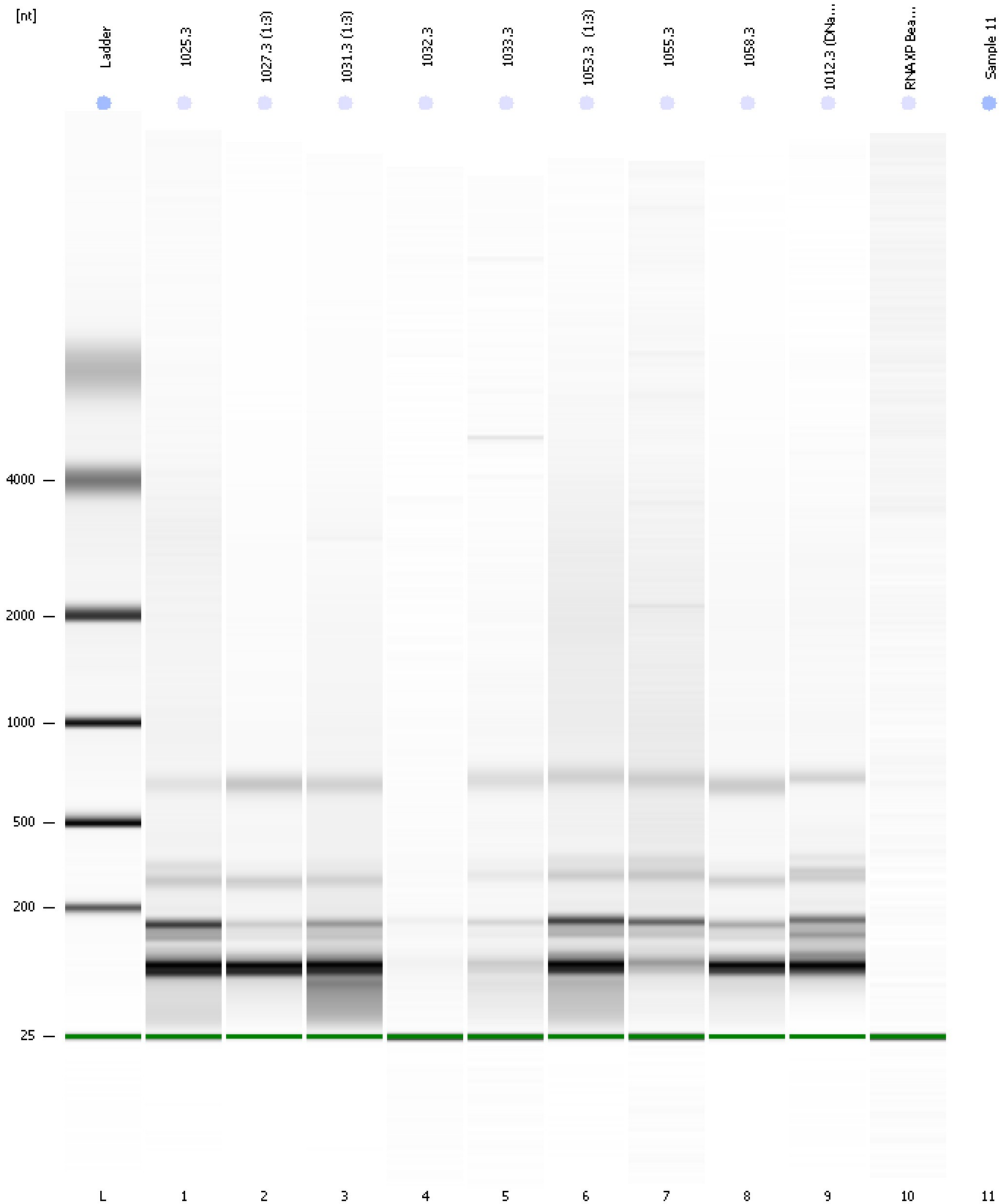
Overall Results for sample 10 : RNA XP Bead Test - blank

RNA Area:	2.2	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	14 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
Modified: 11/6/2014 4:12:03 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad

Created: 11/6/2014 3:50:32 PM
 Modified: 11/6/2014 4:12:03 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		11/6/2014 4:12:01 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-11-06\2014-11-06_002.xad)		Instrument	Run		11/6/2014 3:50:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/6/2014 3:50:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/6/2014 3:50:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/6/2014 3:50:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/6/2014 3:50:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/6/2014 3:50:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/6/2014 3:50:38 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1