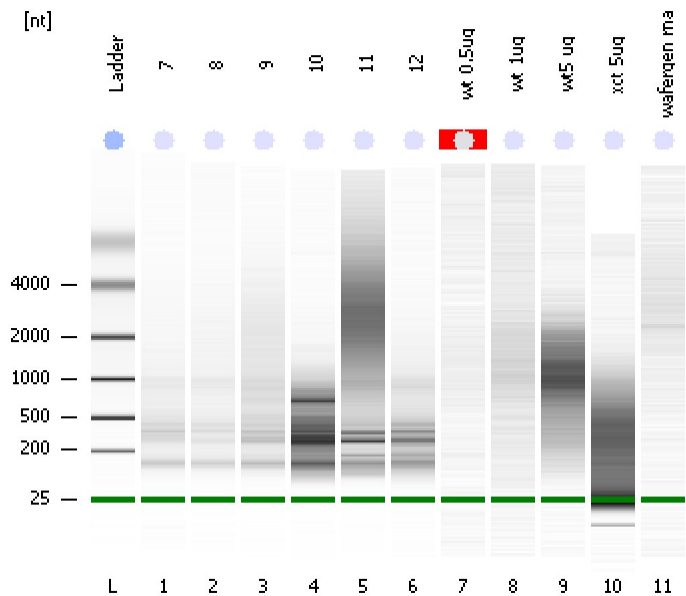


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electrophoresis File Run Summary



Instrument Information:

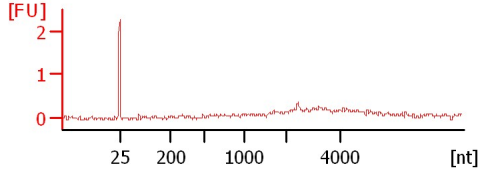
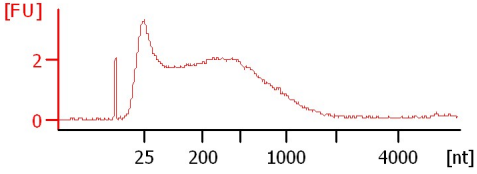
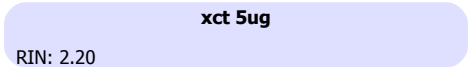
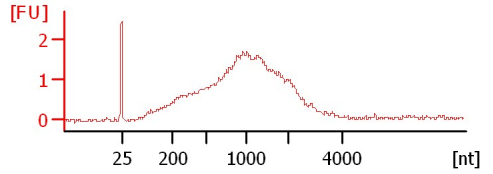
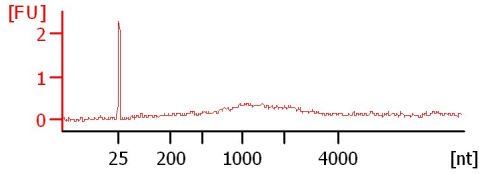
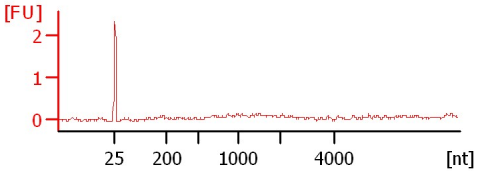
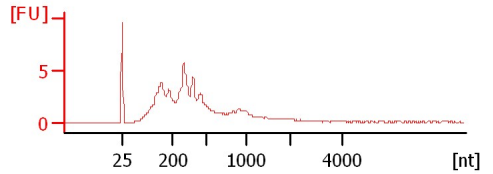
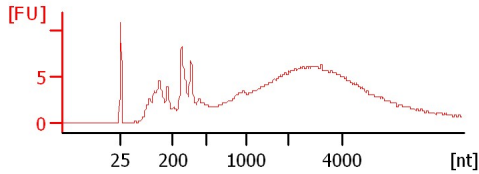
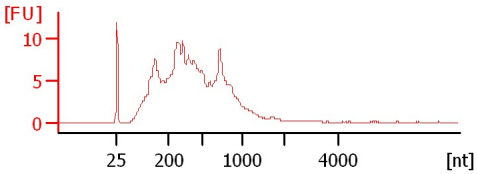
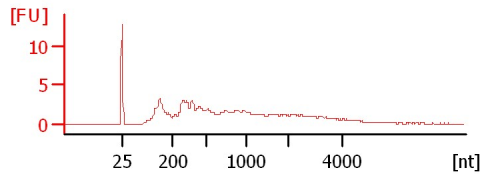
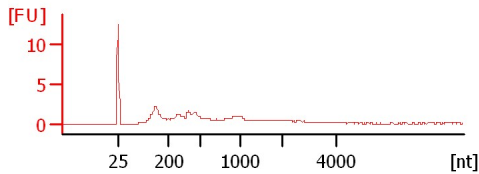
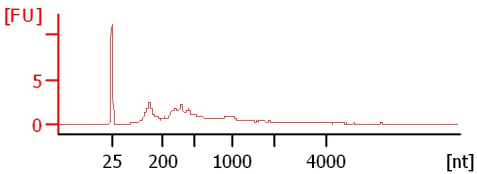
Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

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:



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
 Modified: 10/8/2014 2:08:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
7		✓	RIN:2	
8		✓	RIN: 1.80	
9		✓	RIN: 2.20	
10		✓	RIN: 2.10	
11		✓	RIN: 2.50	
12		✓	RIN: 2.30	
wt 0.5ug		✓	RIN N/A	
wt 1ug		✓	RIN: 1.50	
wt5 ug		✓	RIN: 2.20	
xct 5ug		✓	RIN: 2.20	
wafergen rna		✓	RIN: 1.50	
Ladder		✓	All Other Samples	

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 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

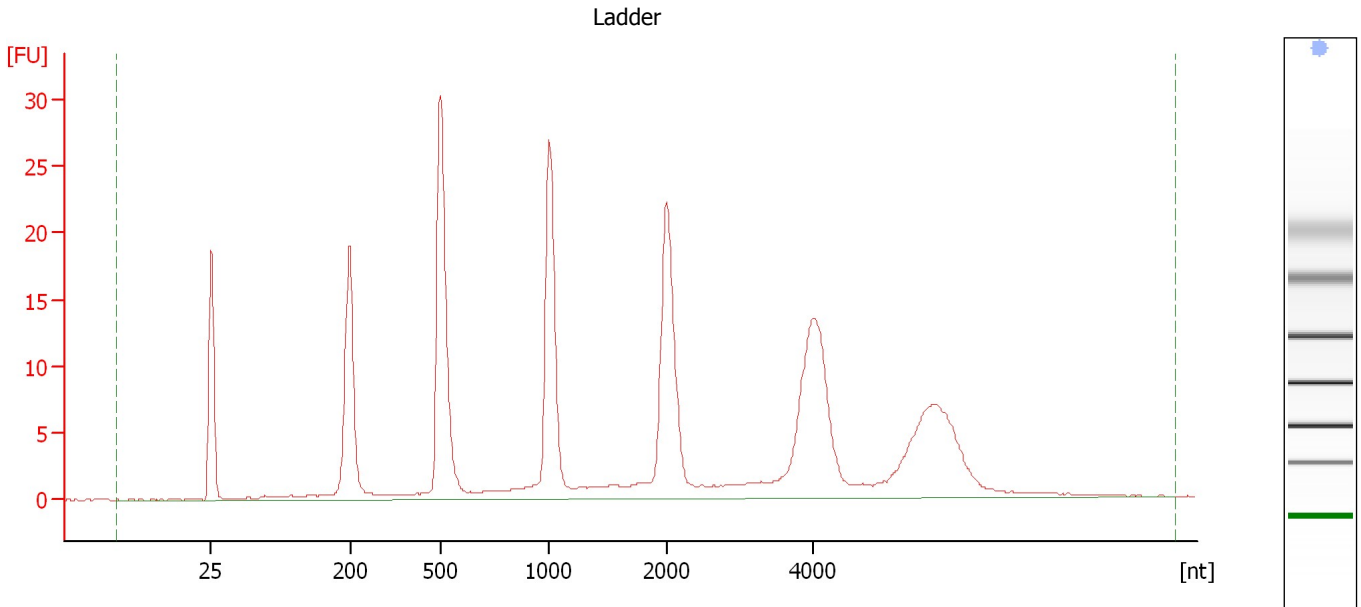
Ladder

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\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary



Overall Results for Ladder

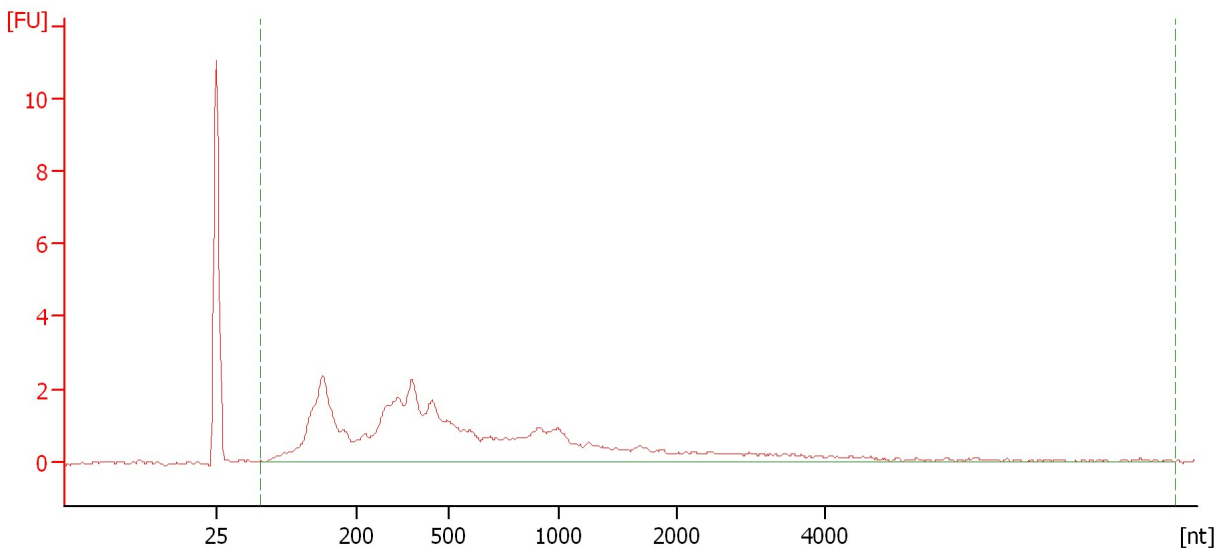
RNA Area:	248.4	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...

7



Overall Results for sample 1 : 7

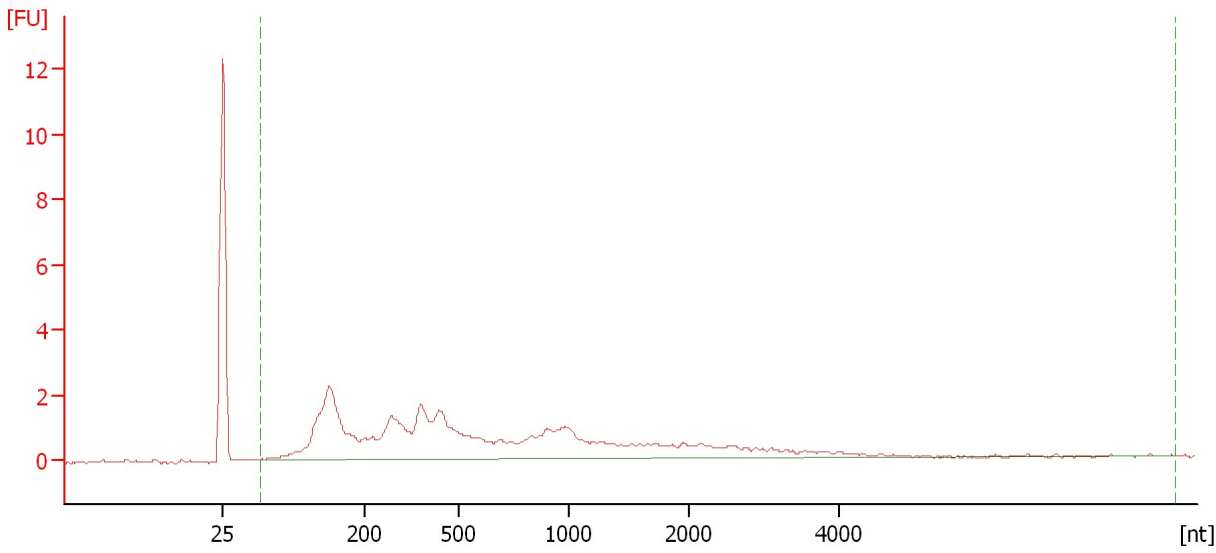
RNA Area:	35.5	RNA Integrity Number (RIN):	2 (B.02.08)
RNA Concentration:	143 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...

8



Overall Results for sample 2 : 8

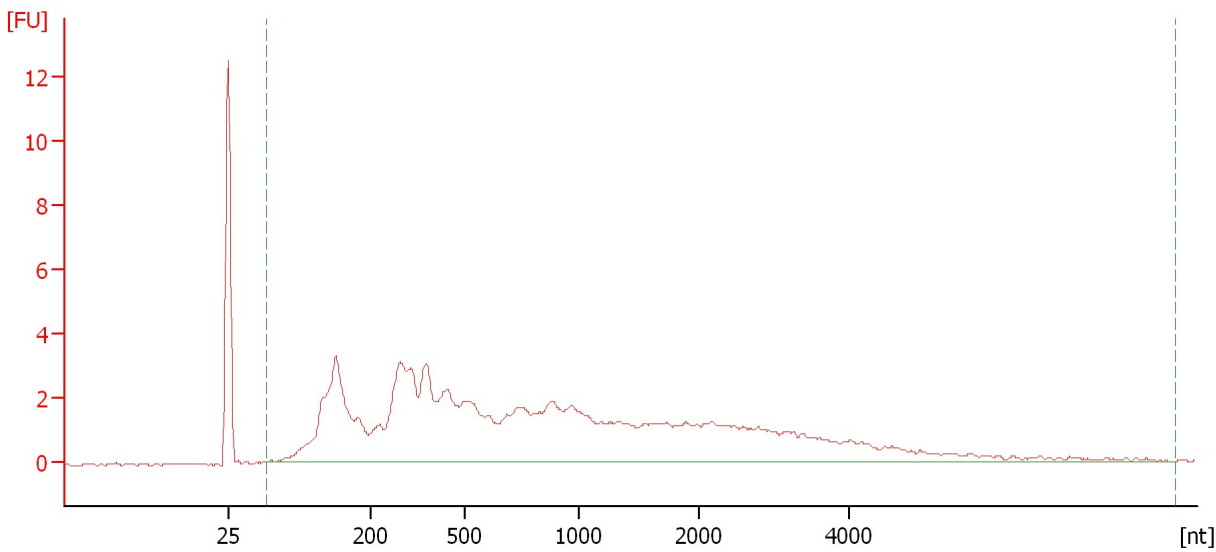
RNA Area:	31.2	RNA Integrity Number (RIN):	1.8 (B.02.08)
RNA Concentration:	126 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.80

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...

9



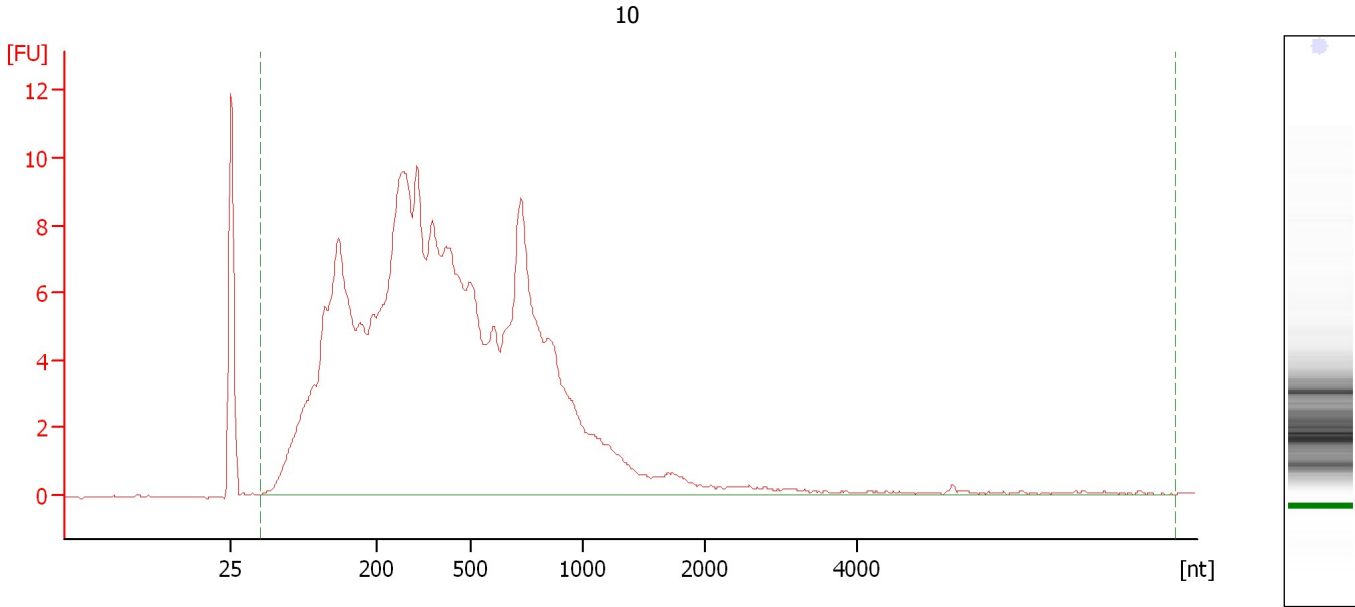
Overall Results for sample 3 : 9

RNA Area:	86.7	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	349 pg/μl	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\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...



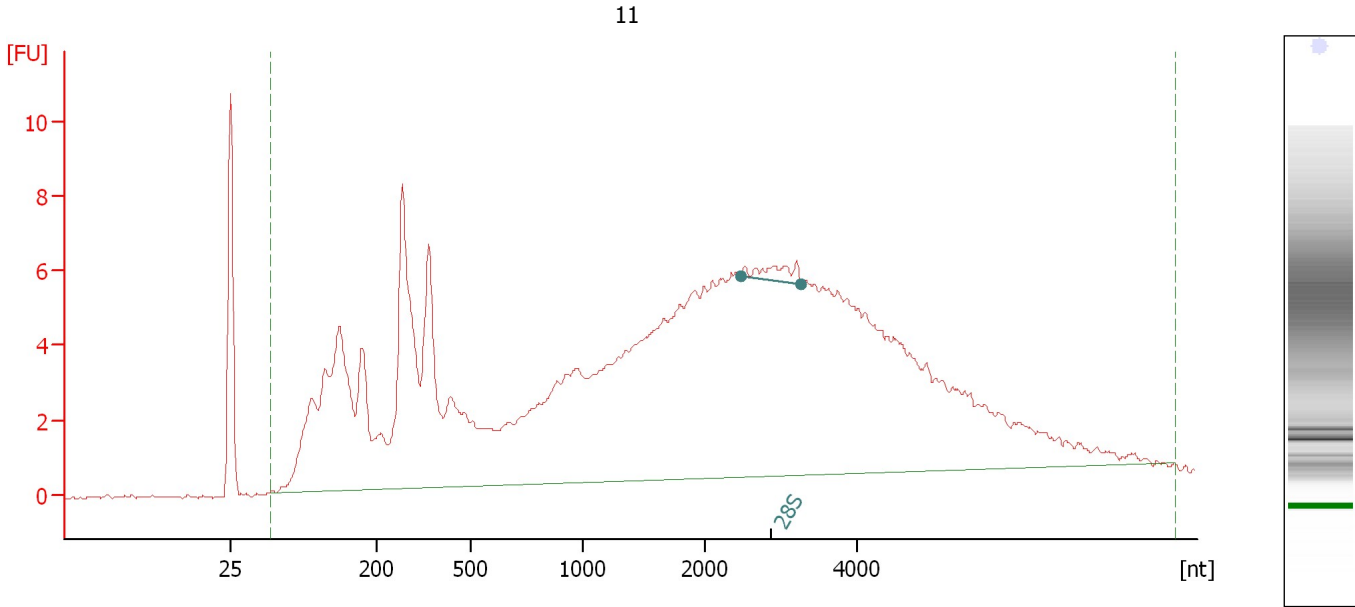
Overall Results for sample 4 : 10

RNA Area:	228.8	RNA Integrity Number (RIN):	2.1 (B.02.08)
RNA Concentration:	921 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.10

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 11

RNA Area:	253.4	RNA Integrity Number (RIN):	2.5 (B.02.08)
RNA Concentration:	1,020 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.50

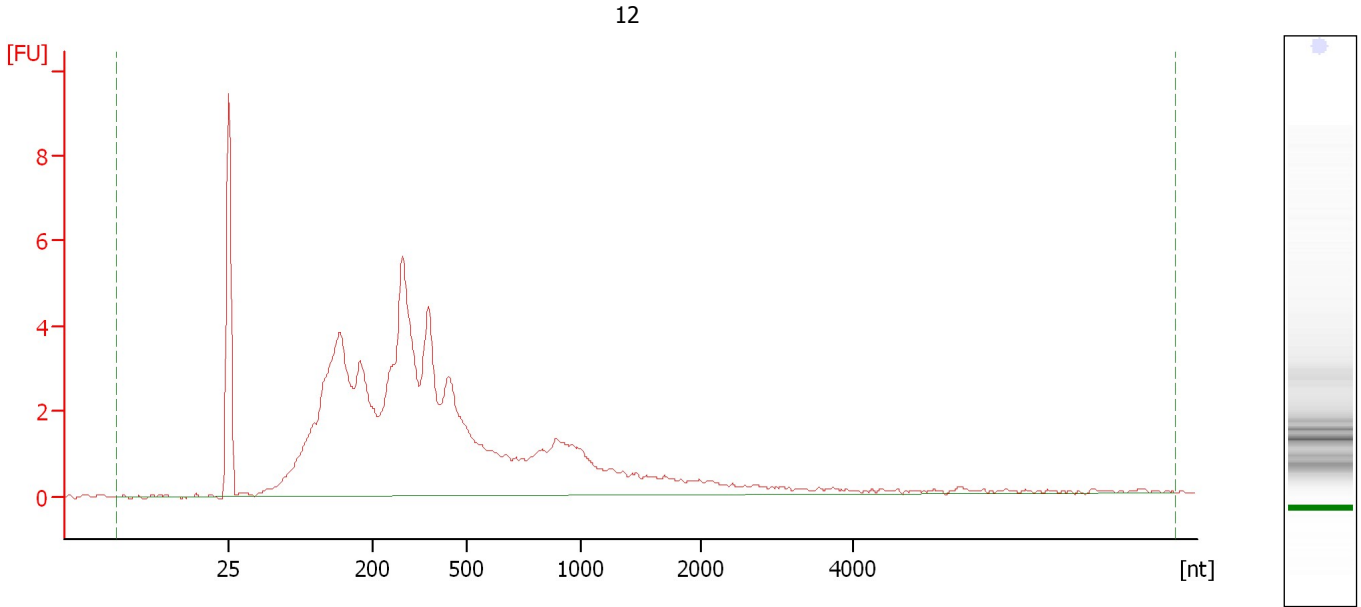
Fragment table for sample 5 : 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
28S	2,478	3,278	1.6	0.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...



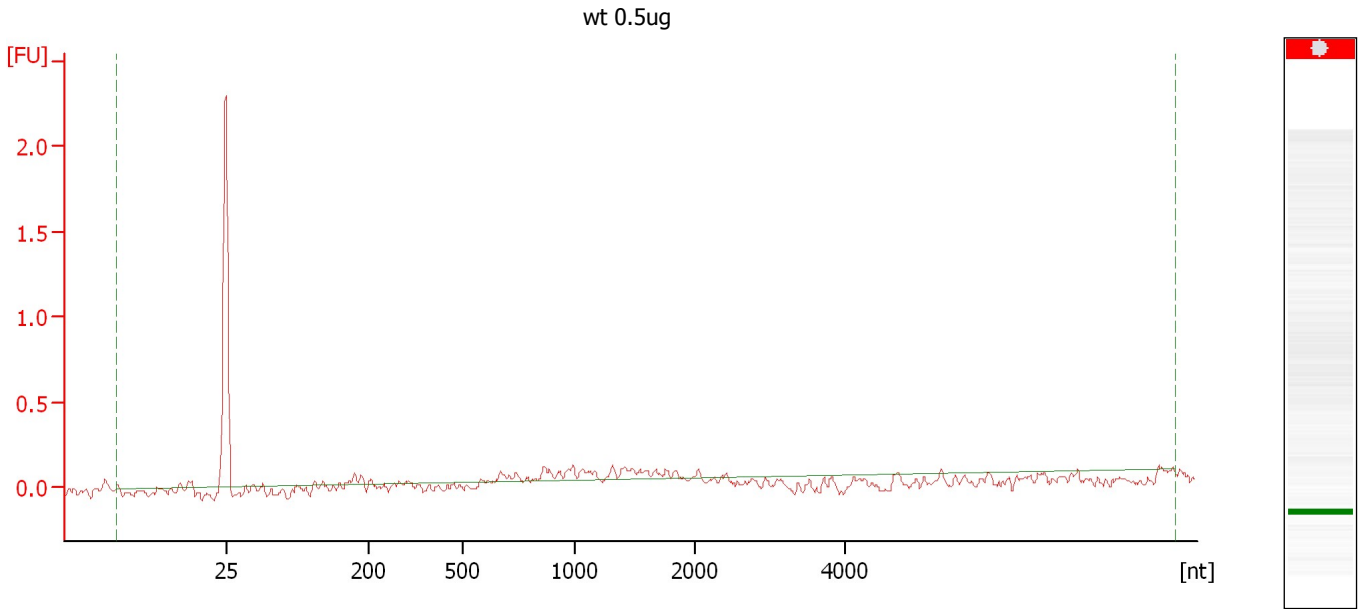
Overall Results for sample 6 : 12

RNA Area:	94.9	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	382 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\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...



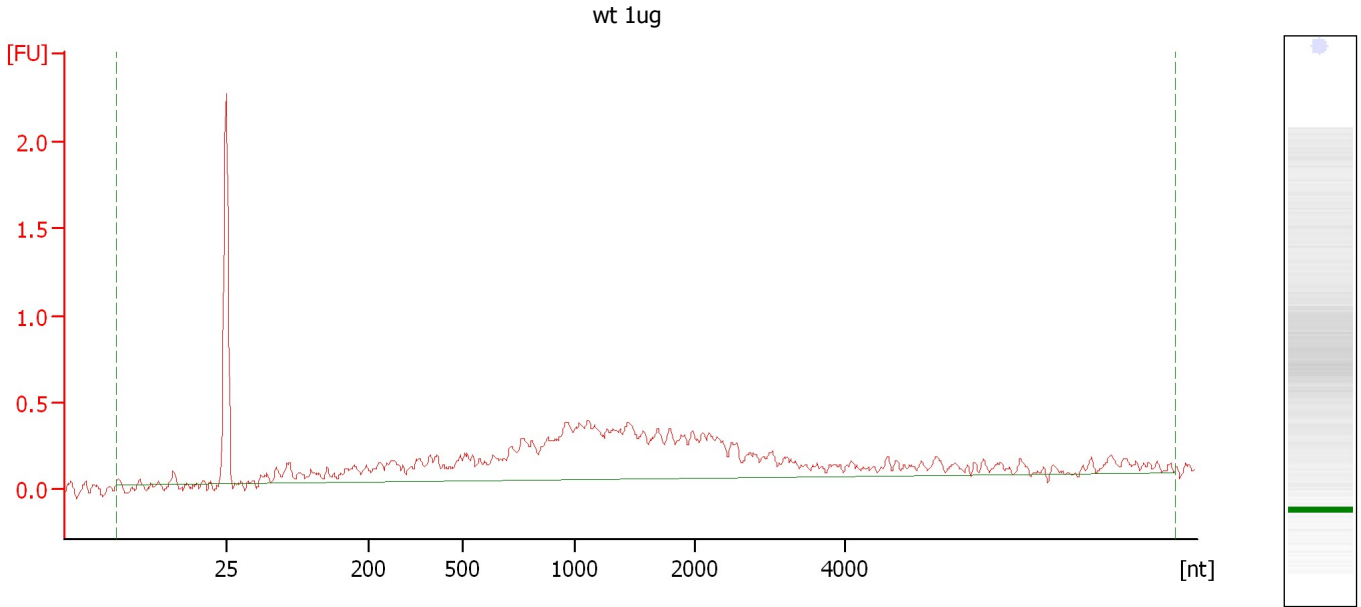
Overall Results for sample 7 : wt 0.5ug

RNA Area:	0.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...



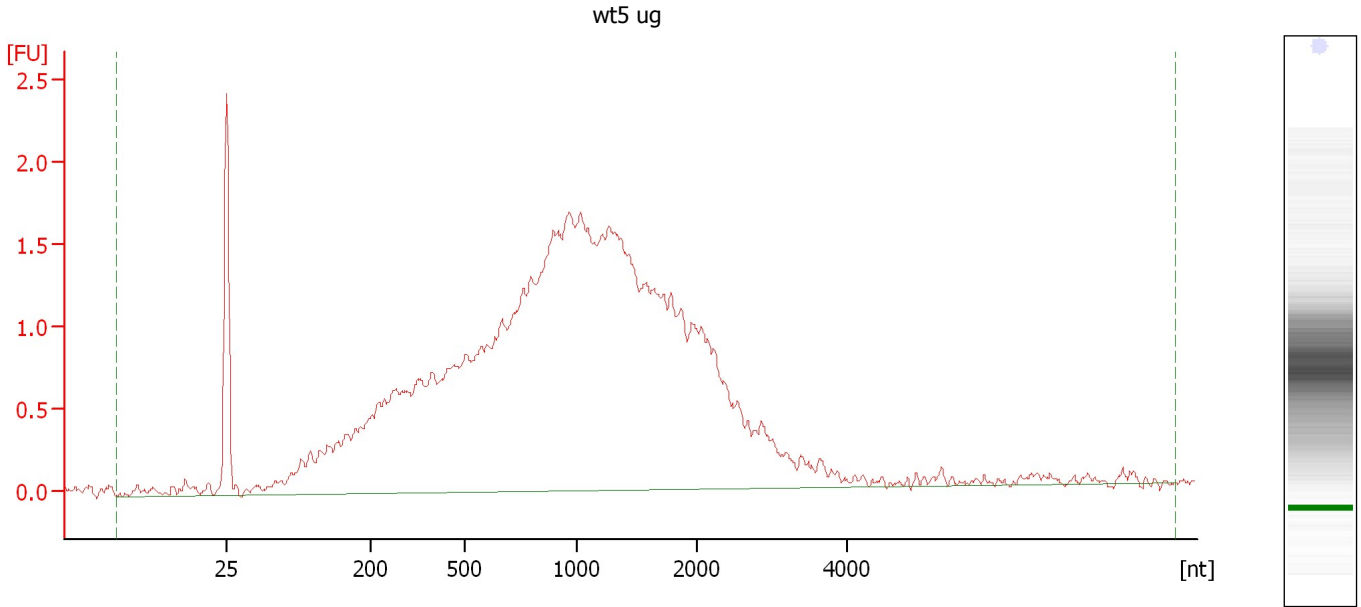
Overall Results for sample 8 : wt 1ug

RNA Area:	11.0	RNA Integrity Number (RIN):	1.5 (B.02.08)
RNA Concentration:	44 pg/ μ l	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.50

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...



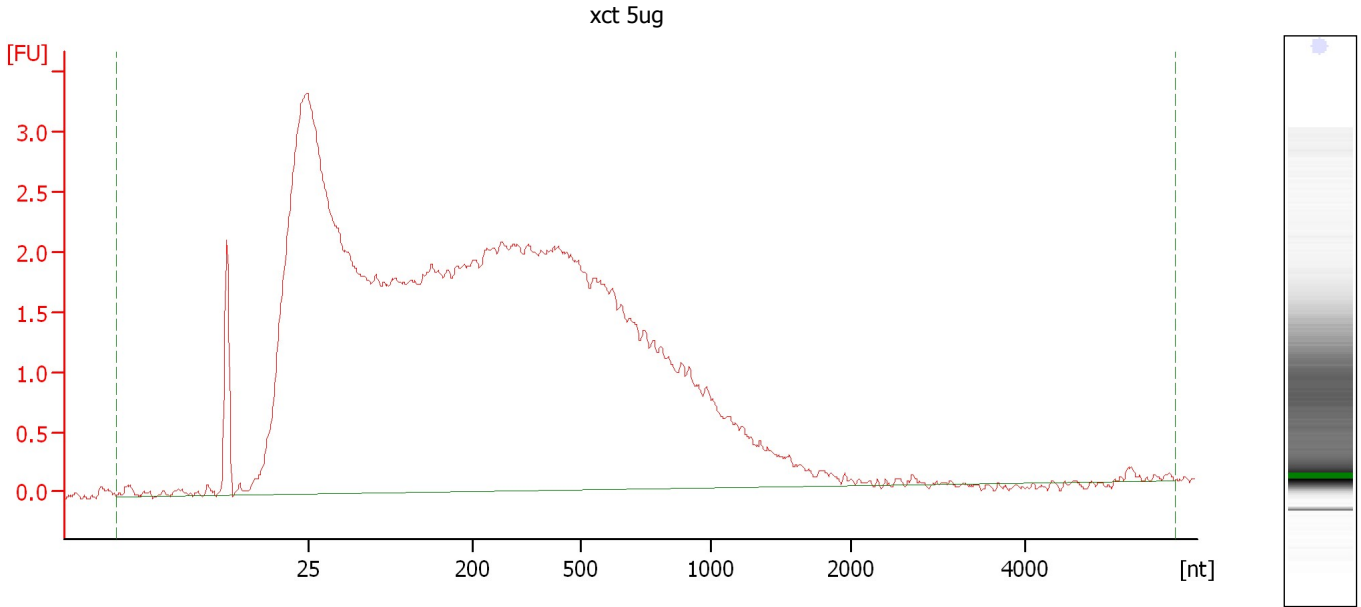
Overall Results for sample 9 : wt5 ug

RNA Area:	52.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	211 pg/μl	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\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...



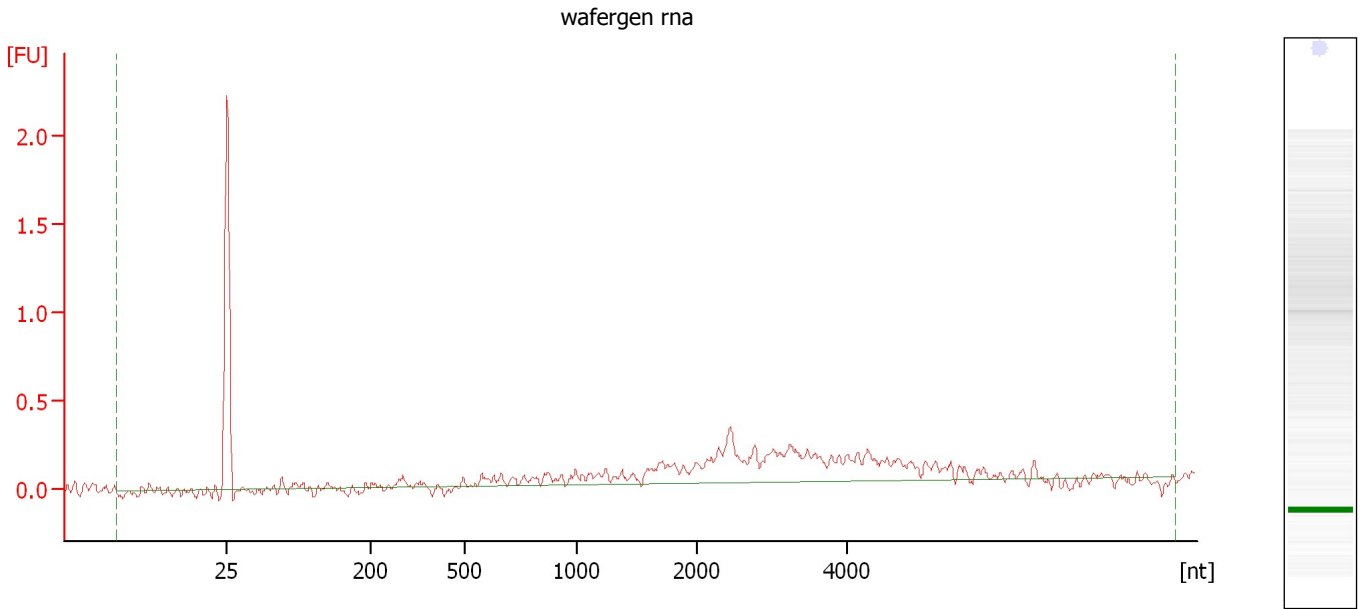
Overall Results for sample 10 : xct 5ug

RNA Area:	91.5	RNA Integrity Number (RIN):	2.2 (B.02.08)
RNA Concentration:	368 µg/µl	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\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Electropherogram Summary Continued ...



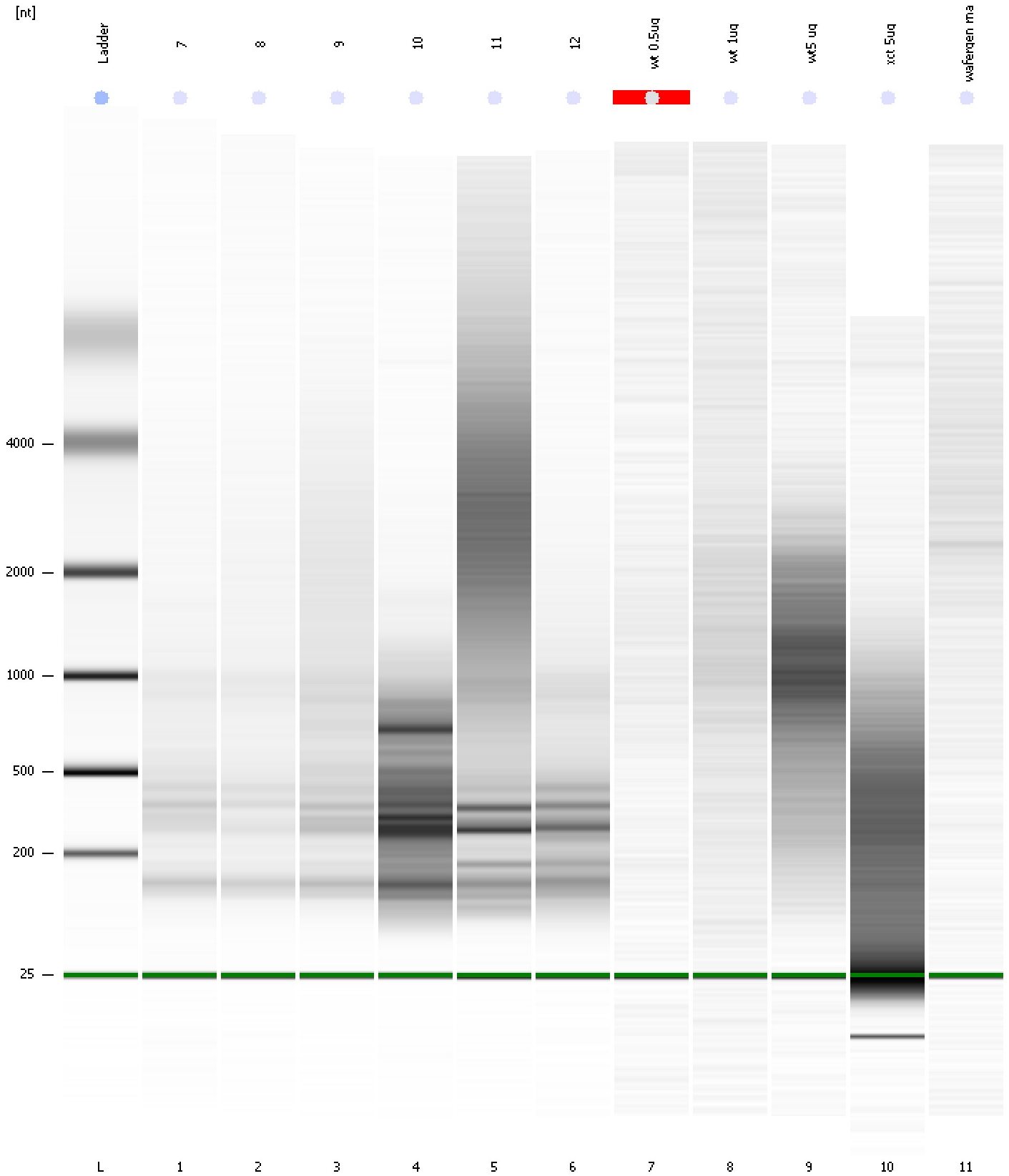
Overall Results for sample 11 : wafergen rna

RNA Area:	4.8	RNA Integrity Number (RIN):	1.5 (B.02.08)
RNA Concentration:	19 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 1.50

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Gel Image

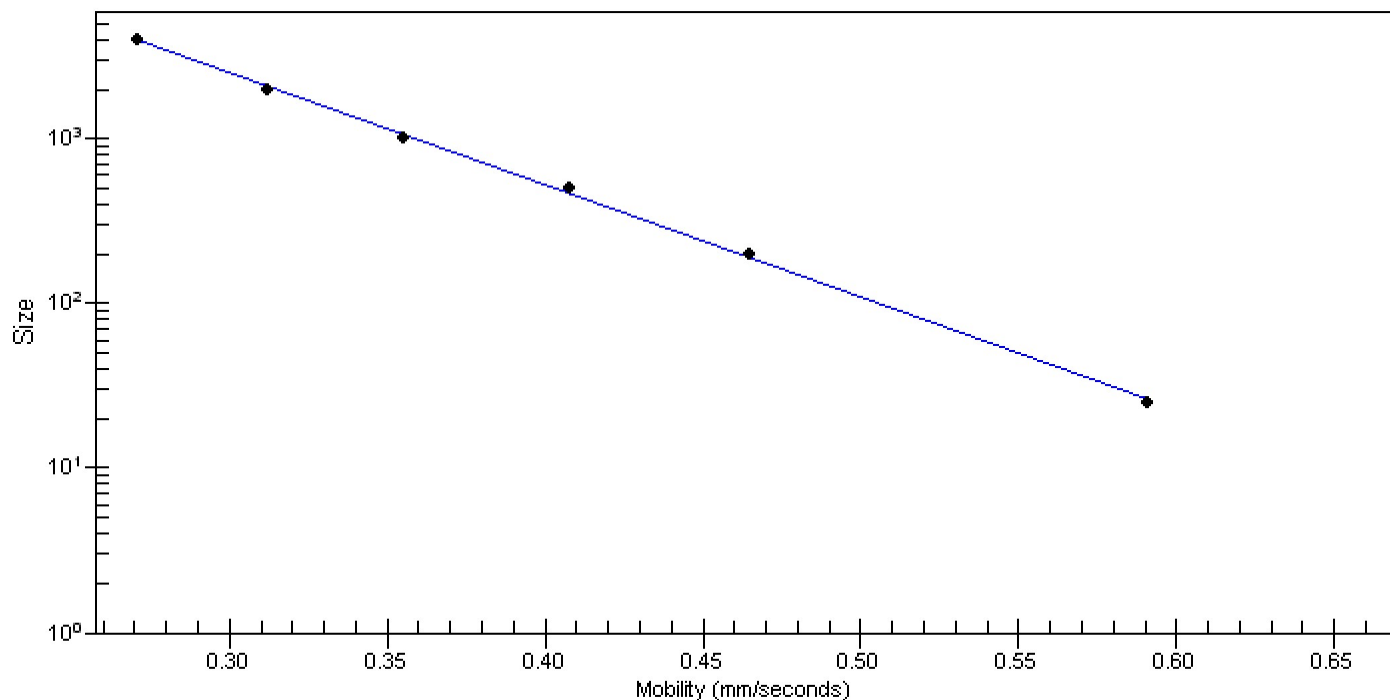


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
Modified: 10/8/2014 2:08:23 PM

Curves

Standard Curve



Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad

Created: 10/8/2014 1:45:24 PM
 Modified: 10/8/2014 2:08:23 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		10/8/2014 2:08:19 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-10-08\2014-10-08_004.xad)		Instrument	Run		10/8/2014 1:45:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		10/8/2014 1:45:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		10/8/2014 1:45:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		10/8/2014 1:45:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		10/8/2014 1:45:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		10/8/2014 1:45:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		10/8/2014 1:45:30 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1