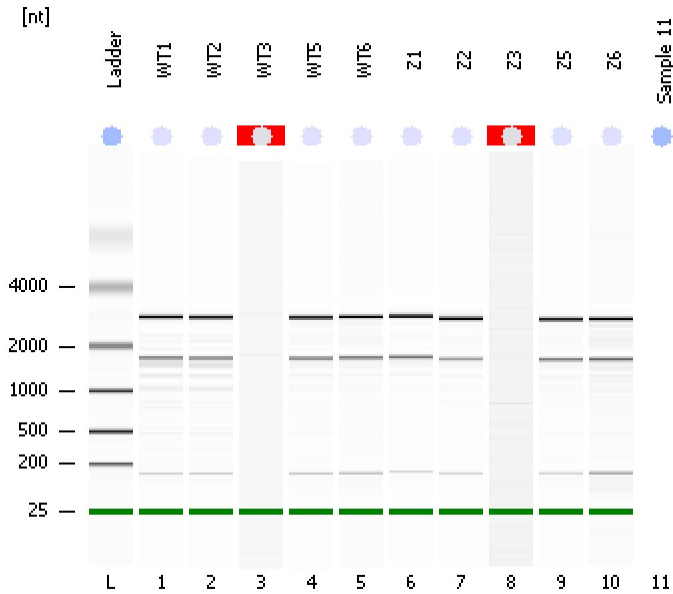


Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 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\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
 Modified: 4/15/2014 12:02:38 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
WT1		✓	RIN: 7.90	
WT2		✓	RIN:8	
WT3		✓	RIN N/A	
WT5		✓	RIN: 8.50	
WT6		✓	RIN: 8.20	
Z1		✓	RIN: 8.60	
Z2		✓	RIN: 8.30	
Z3		✓	RIN N/A	
Z5		✓	RIN: 8.90	
Z6		✓	RIN:7	
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\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 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/ 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] : 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

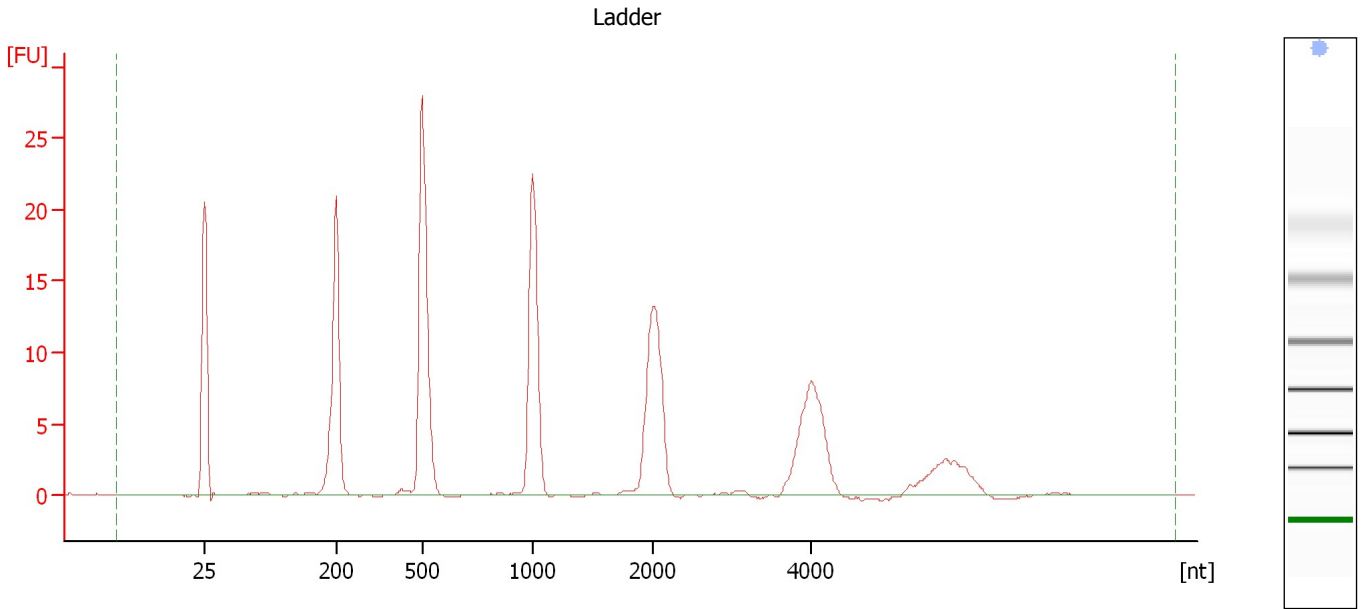
Ladder

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\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary



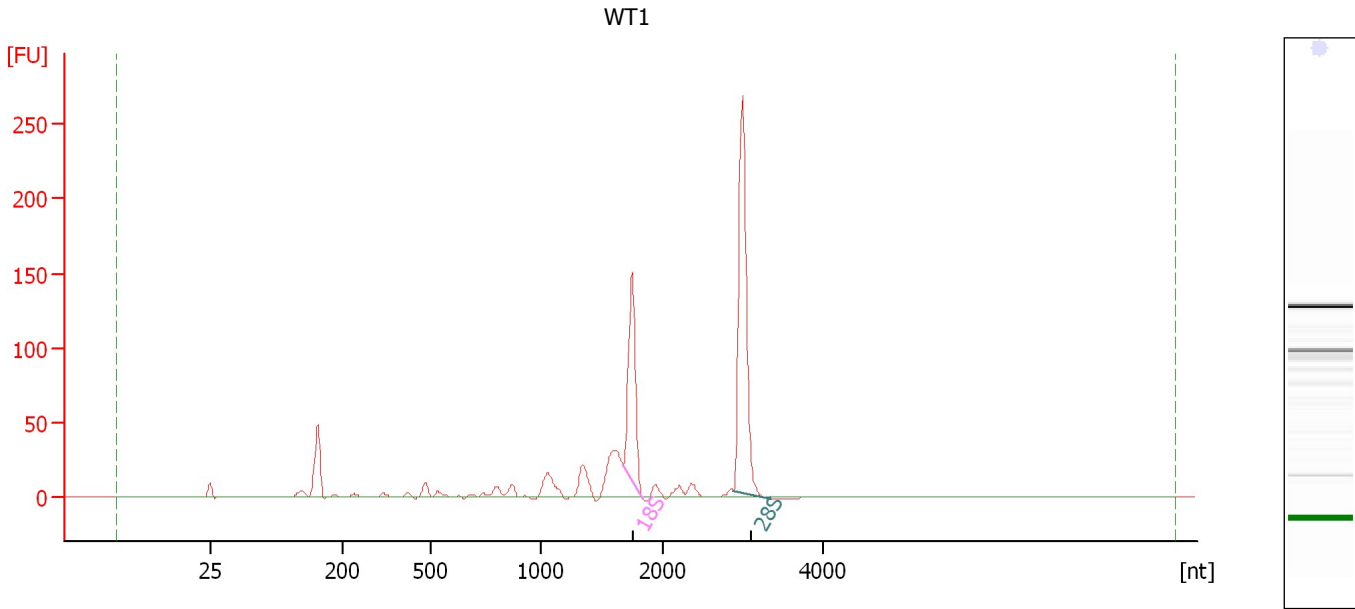
Overall Results for Ladder

RNA Area:	142.9	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\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : WT1

RNA Area: 595.7 RNA Integrity Number (RIN): 7.9 (B.02.08)
RNA Concentration: 4,169 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN: 7.90

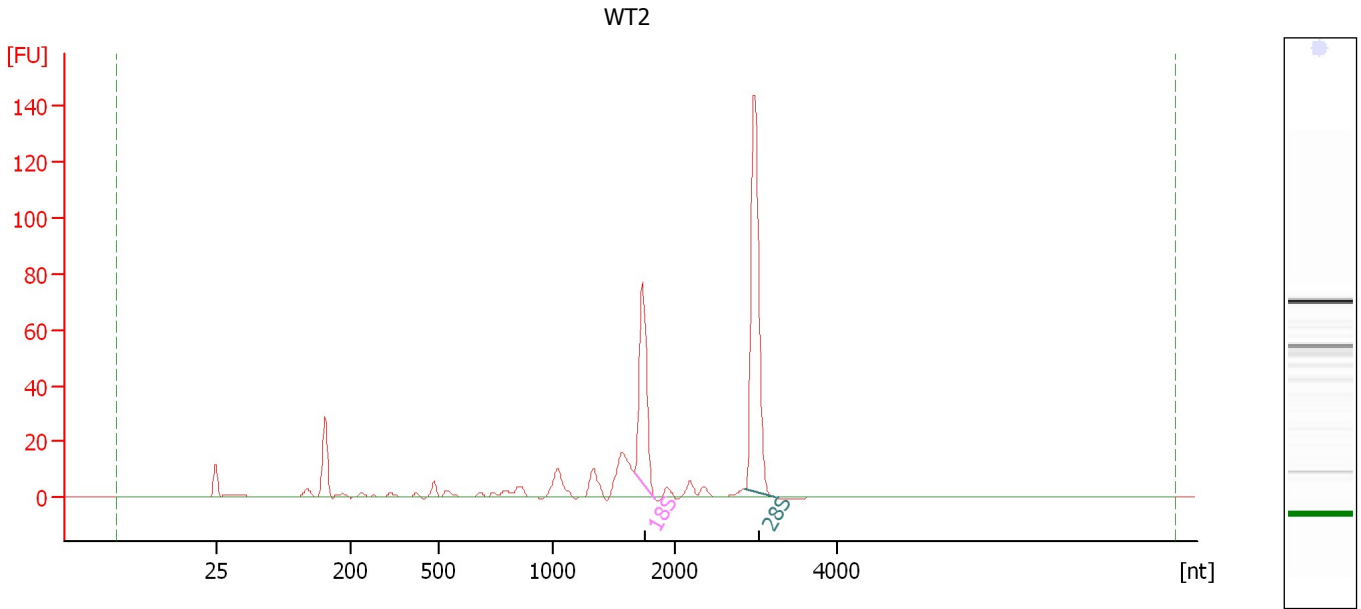
Fragment table for sample 1 : WT1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,672	1,838	115.4	19.4
28S	2,876	3,344	214.9	36.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : WT2

RNA Area: 320.8 RNA Integrity Number (RIN): 8 (B.02.08)
RNA Concentration: 2,245 pg/μl Result Flagging Color:
rRNA Ratio [28s / 18s]: 1.9 Result Flagging Label: RIN:8

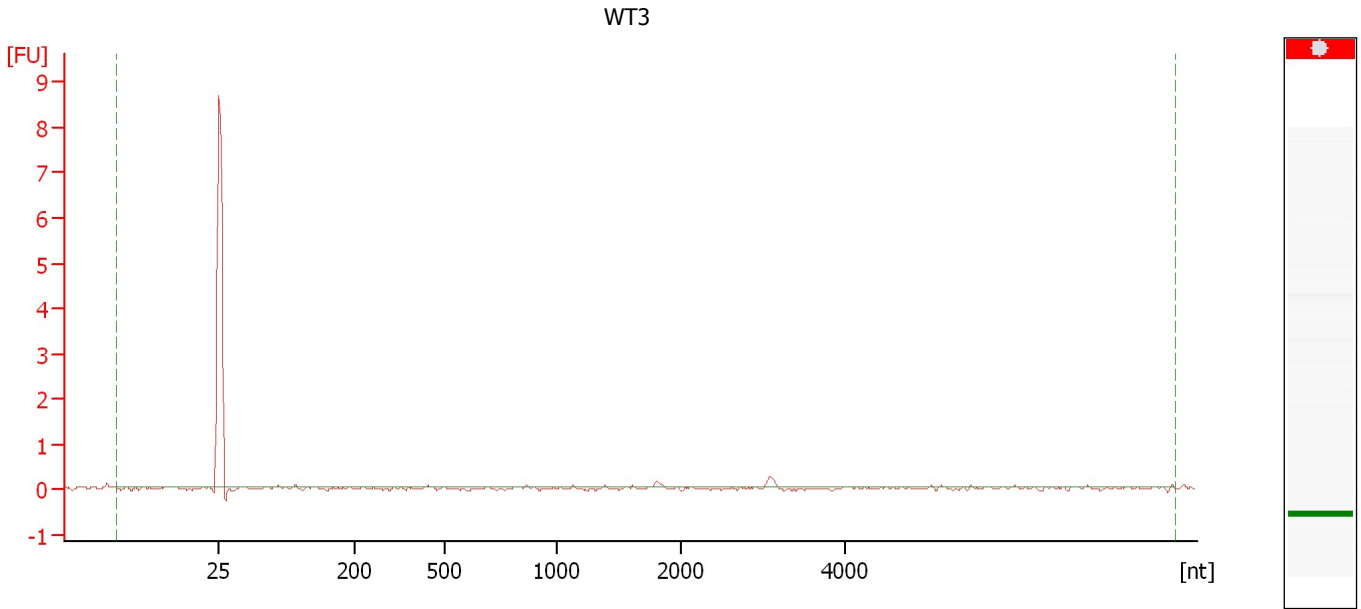
Fragment table for sample 2 : WT2

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,664	1,837	62.4	19.4
28S	2,861	3,230	117.2	36.6

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



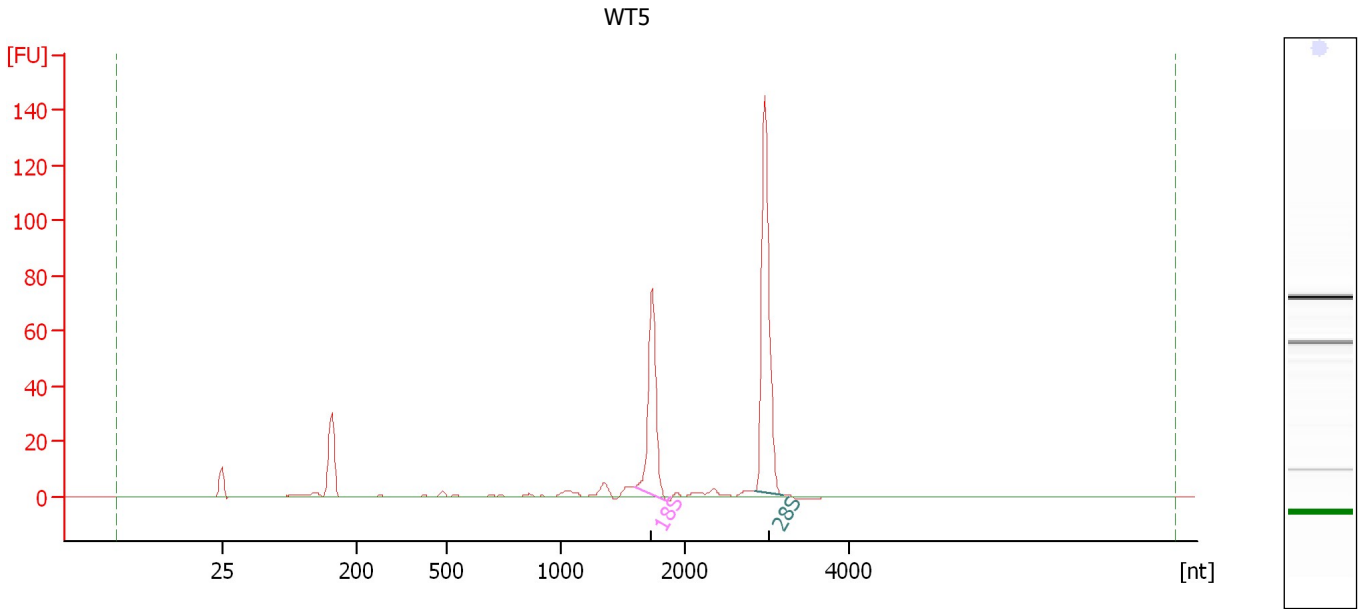
Overall Results for sample 3 : WT3

RNA Area:	0.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	3 pg/ μ l	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\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
 Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : WT5

RNA Area:	270.5	RNA Integrity Number (RIN):	8.5 (B.02.08)
RNA Concentration:	1,893 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 8.50

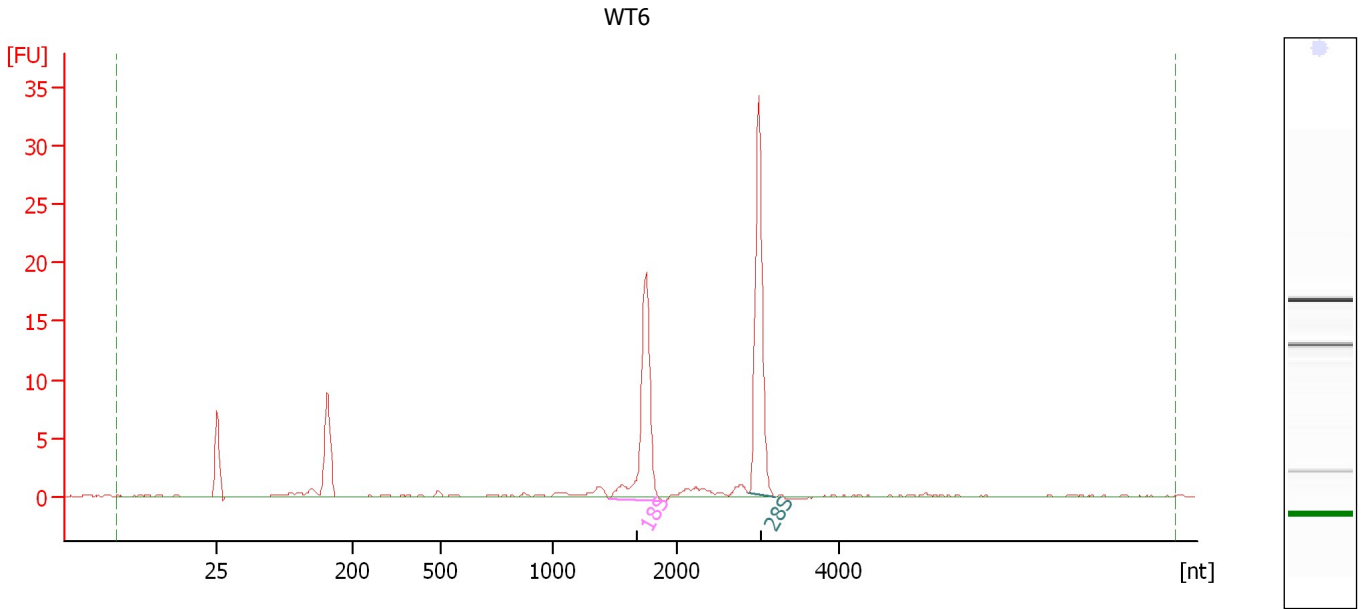
Fragment table for sample 4 : WT5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,587	1,852	73.4	27.1
28S	2,846	3,186	120.4	44.5

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
 Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WT6

RNA Area:	63.7	RNA Integrity Number (RIN):	8.2 (B.02.08)
RNA Concentration:	446 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 8.20

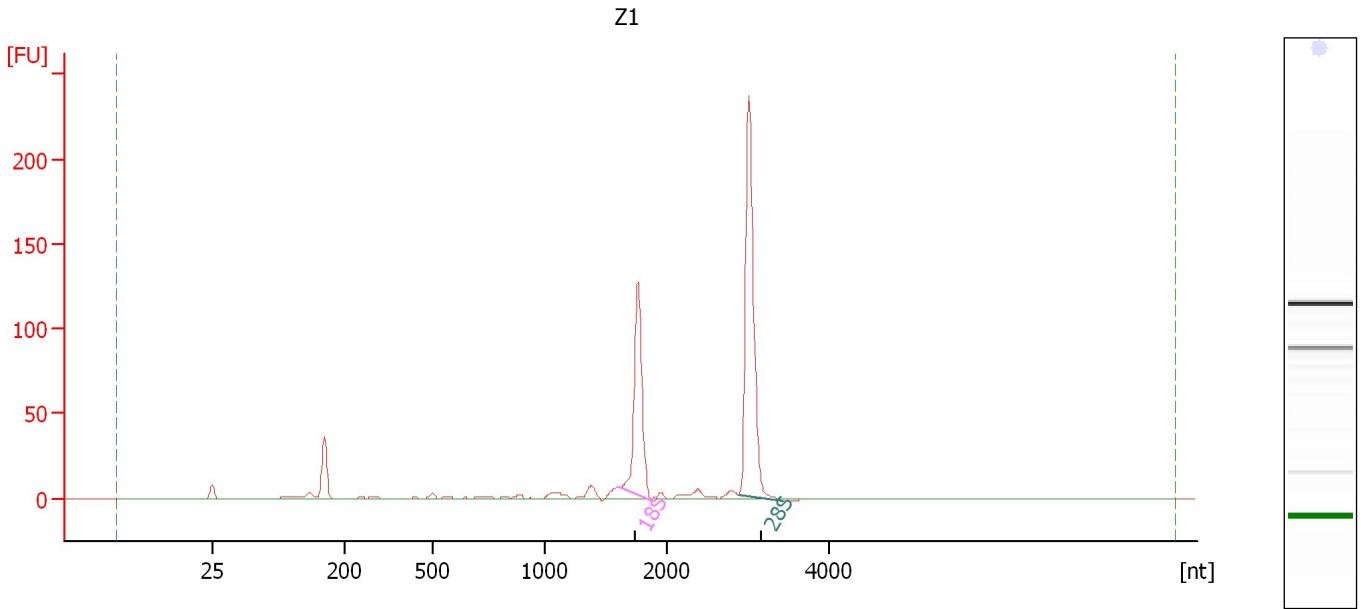
Fragment table for sample 5 : WT6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,450	1,890	22.0	34.5
28S	2,874	3,190	25.9	40.7

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Z1

RNA Area:	439.9	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	3,078 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.7	Result Flagging Label:	RIN: 8.60

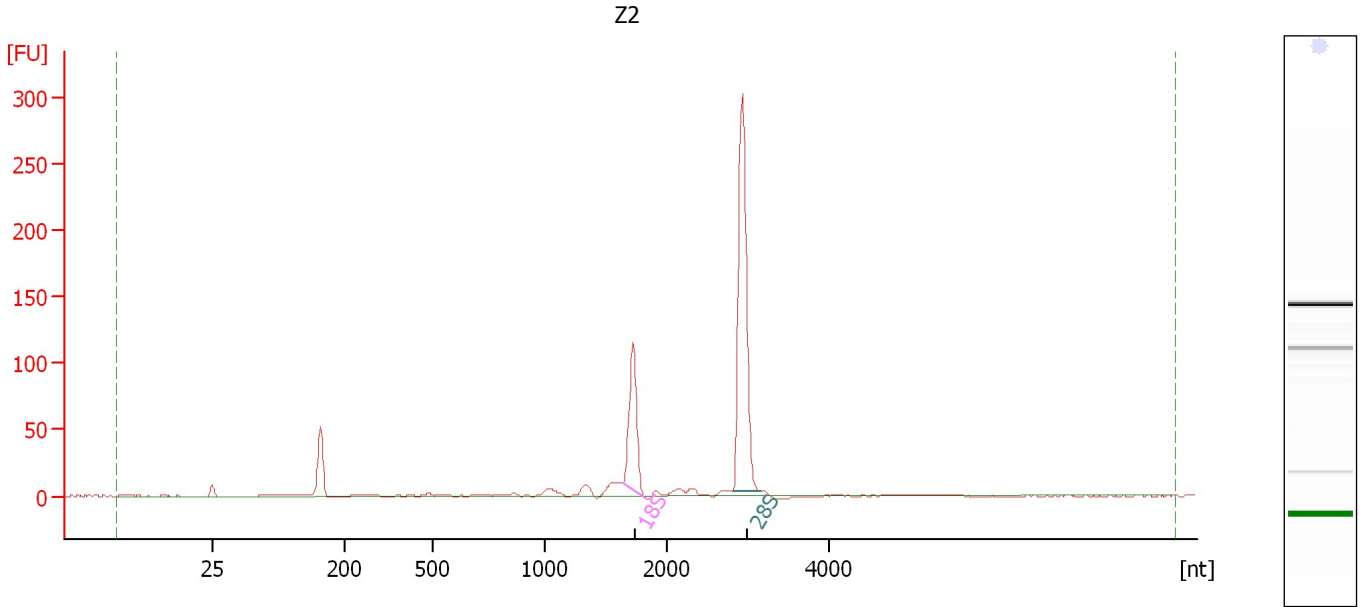
Fragment table for sample 6 : Z1

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	1,884	125.2	28.5
28S	2,889	3,448	214.6	48.8

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Z2

RNA Area:	506.0	RNA Integrity Number (RIN):	8.3 (B.02.08)
RNA Concentration:	3,541 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	2.5	Result Flagging Label:	RIN: 8.30

Fragment table for sample 7 : Z2

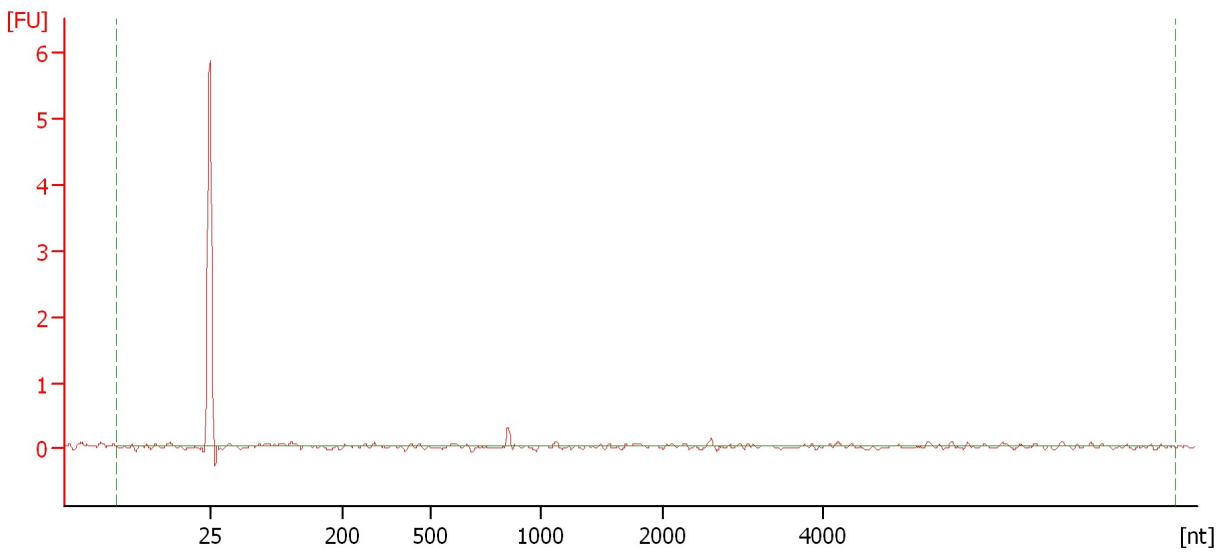
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,631	1,832	103.1	20.4
28S	2,809	3,155	258.5	51.1

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad


Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...

Z3



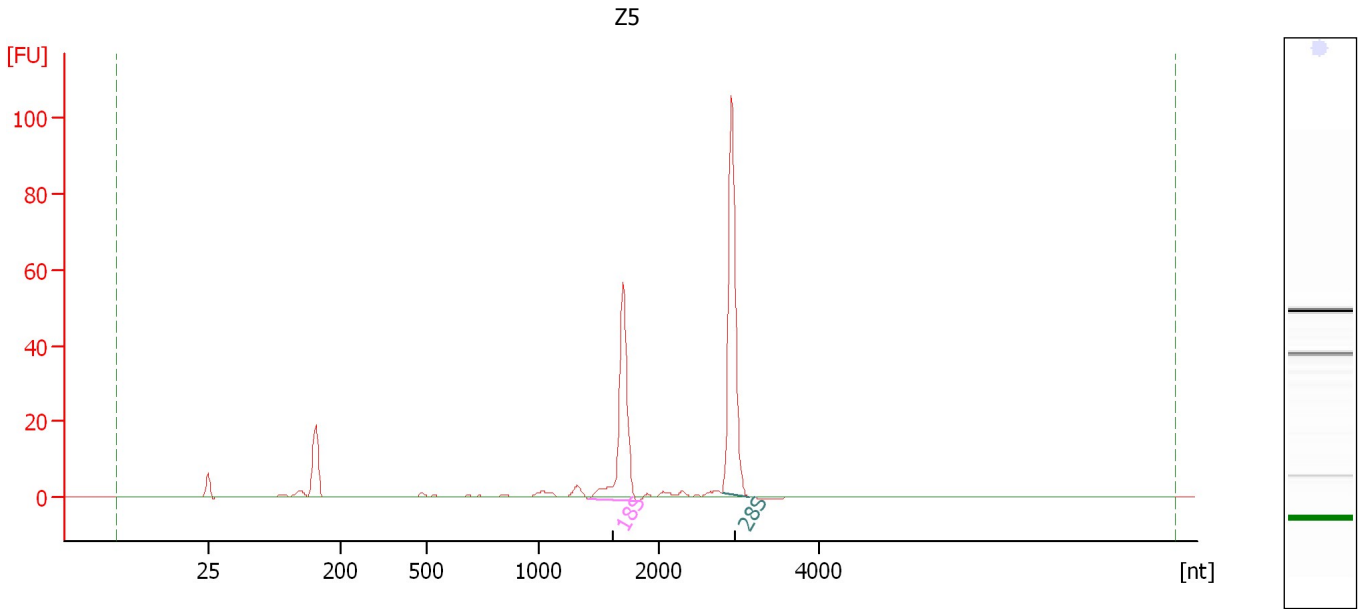
Overall Results for sample 8 : Z3

RNA Area:	0.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	6 pg/ μ l	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\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
 Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : Z5

RNA Area:	184.0	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	1,288 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.90

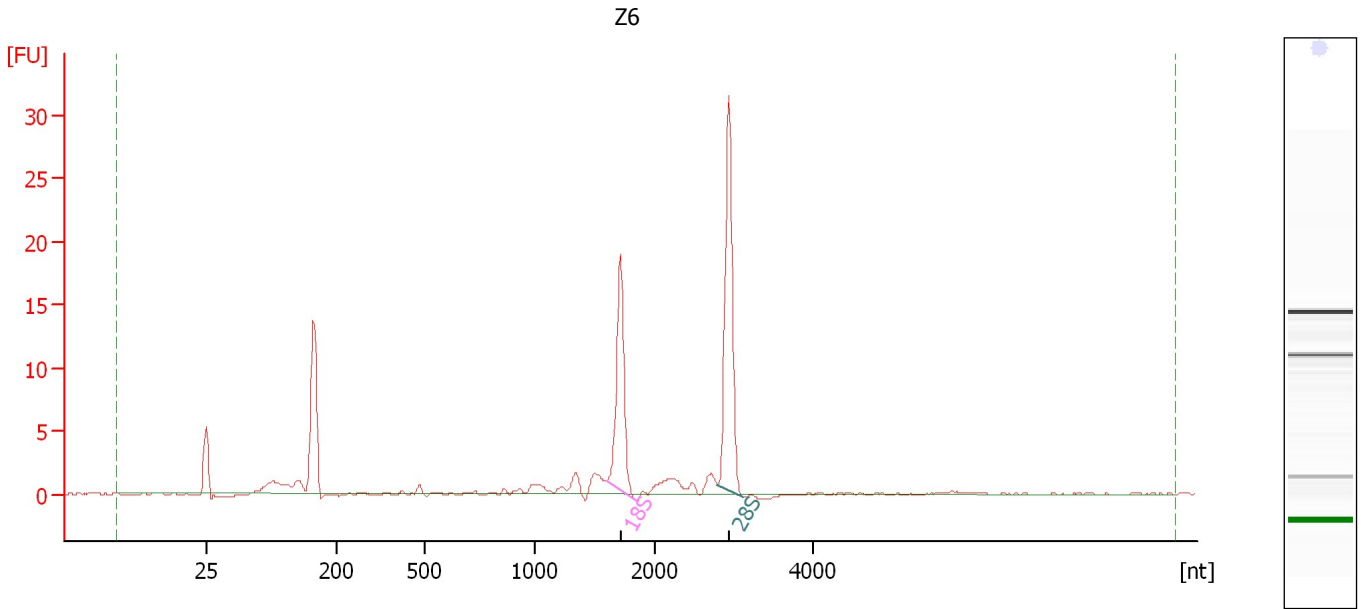
Fragment table for sample 9 : Z5

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,422	1,827	61.5	33.4
28S	2,796	3,132	87.2	47.4

Assay Class: Eukaryote Total RNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
 Modified: 4/15/2014 12:02:38 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Z6

RNA Area:	78.2	RNA Integrity Number (RIN):	7 (B.02.08)
RNA Concentration:	547 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN:7

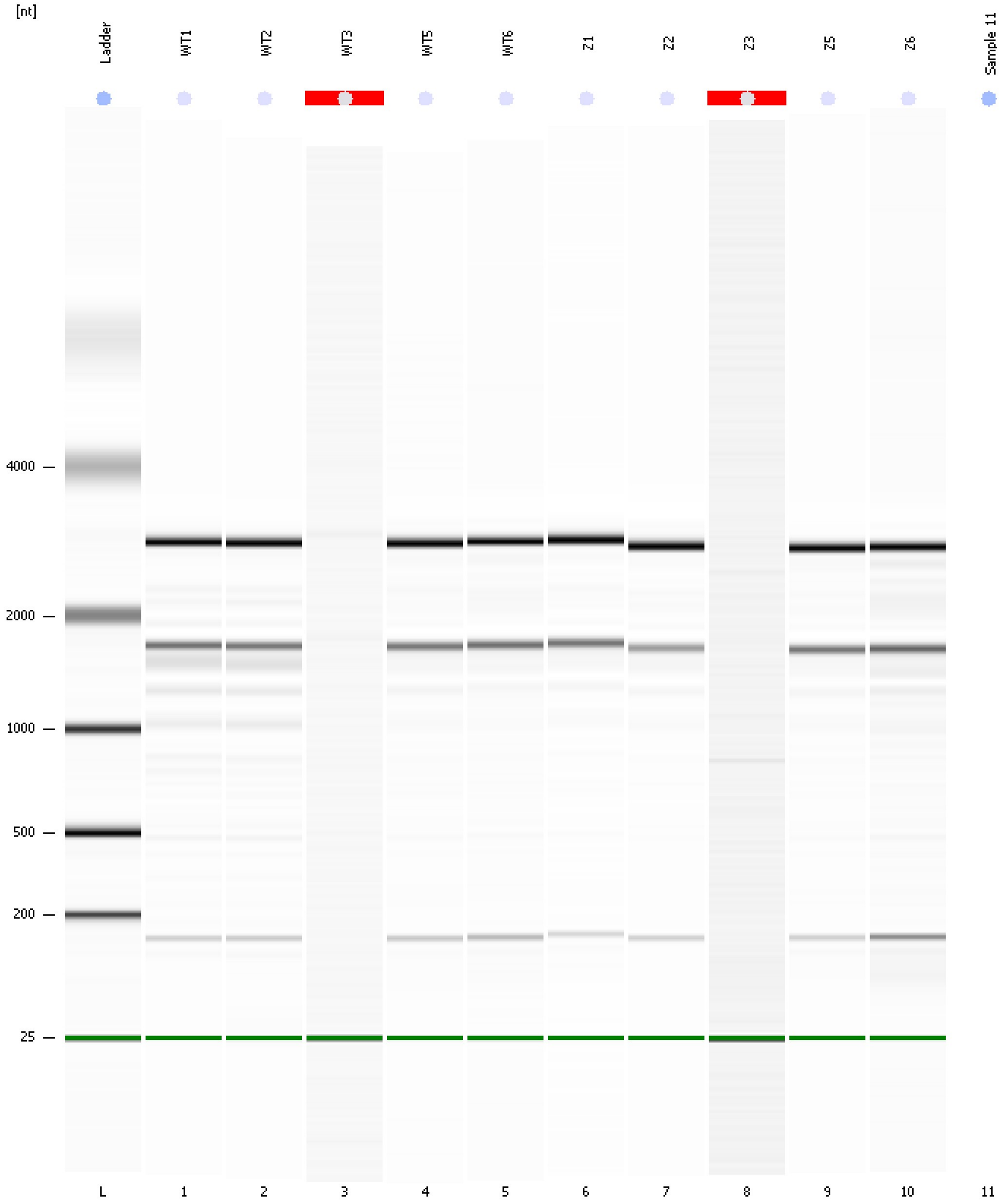
Fragment table for sample 10 : Z6

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,594	1,842	17.9	22.9
28S	2,783	3,107	25.2	32.2

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 PM

Gel Image



Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
Modified: 4/15/2014 12:02:38 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\2014-04-15\2014-04-15_002.xad

Created: 4/15/2014 11:40:16 AM
 Modified: 4/15/2014 12:02:38 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		4/15/2014 12:01:45 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2014-04-15\2014-04-15_002.xad)		Instrument	Run		4/15/2014 11:40:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/15/2014 11:40:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/15/2014 11:40:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/15/2014 11:40:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/15/2014 11:40:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/15/2014 11:40:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/15/2014 11:40:22 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1