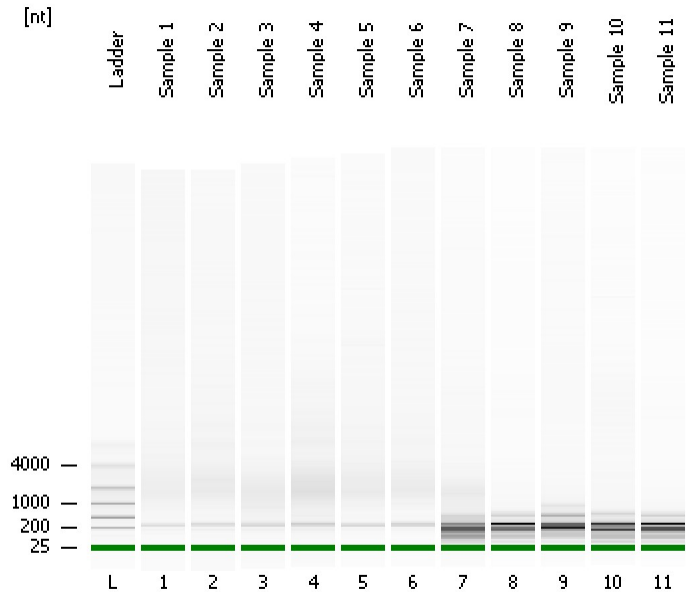


Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electrophoresis File Run Summary



Instrument Information:

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

Assay Information:

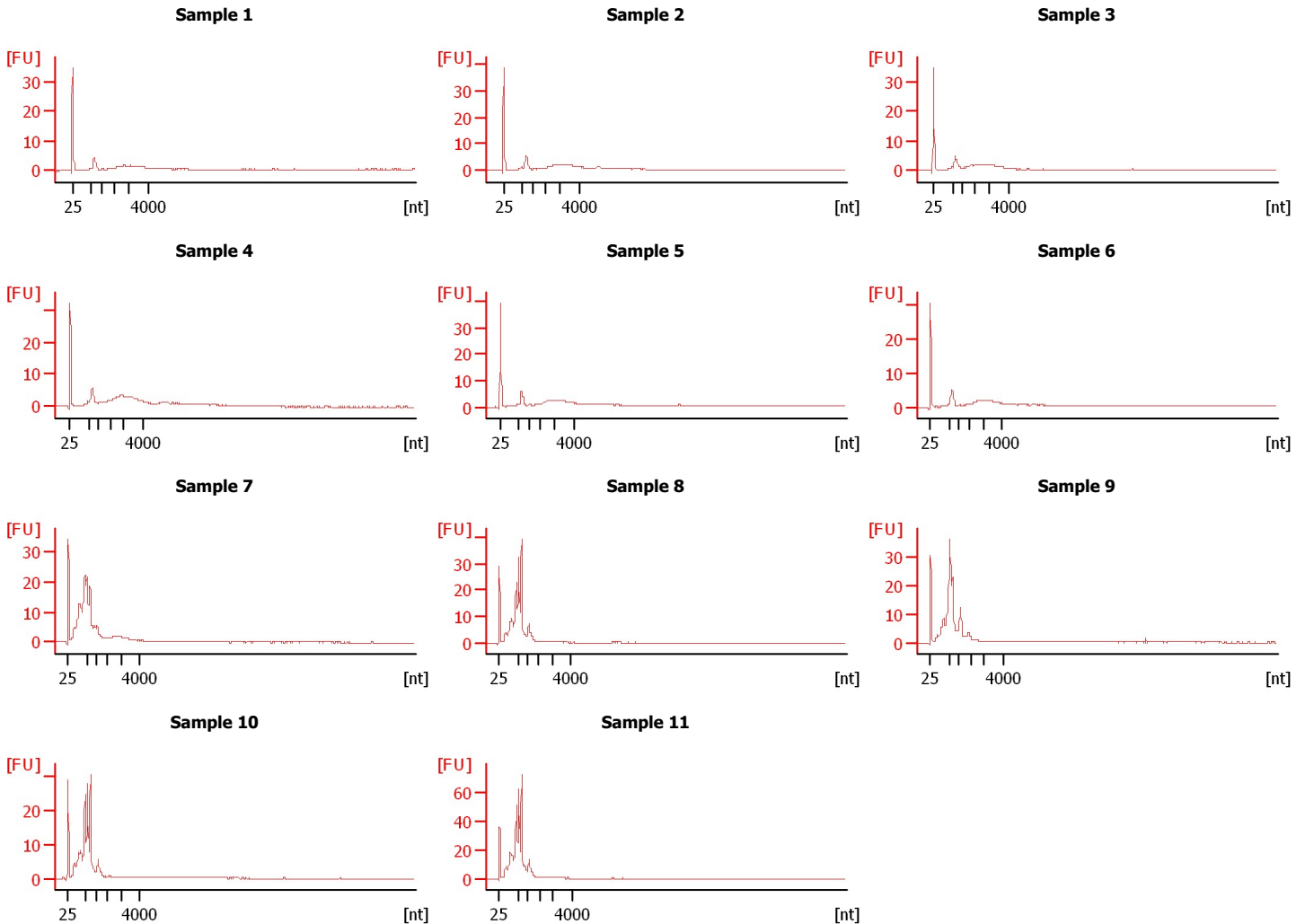
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

Assay Class: mRNA Pico
Version: 2.6
Assay Comments: mRNA Analysis pg sensitivity

© Copyright 2003 - 2009 Agilent Technologies, Inc.

Chip Information:

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



Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓		
Sample 2		✓		
Sample 3		✓		
Sample 4		✓		
Sample 5		✓		
Sample 6		✓		
Sample 7		✓		
Sample 8		✓		
Sample 9		✓		
Sample 10		✓		
Sample 11		✓		
Ladder		✓		

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 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

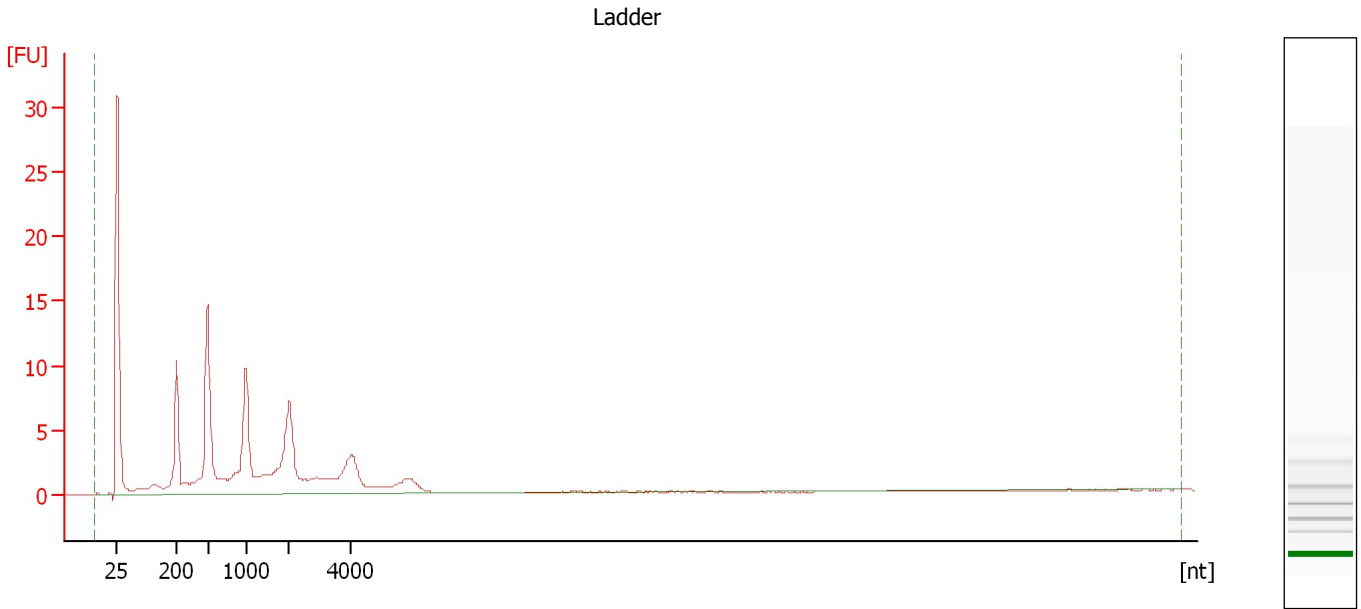
Ladder

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\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary



Overall Results for Ladder

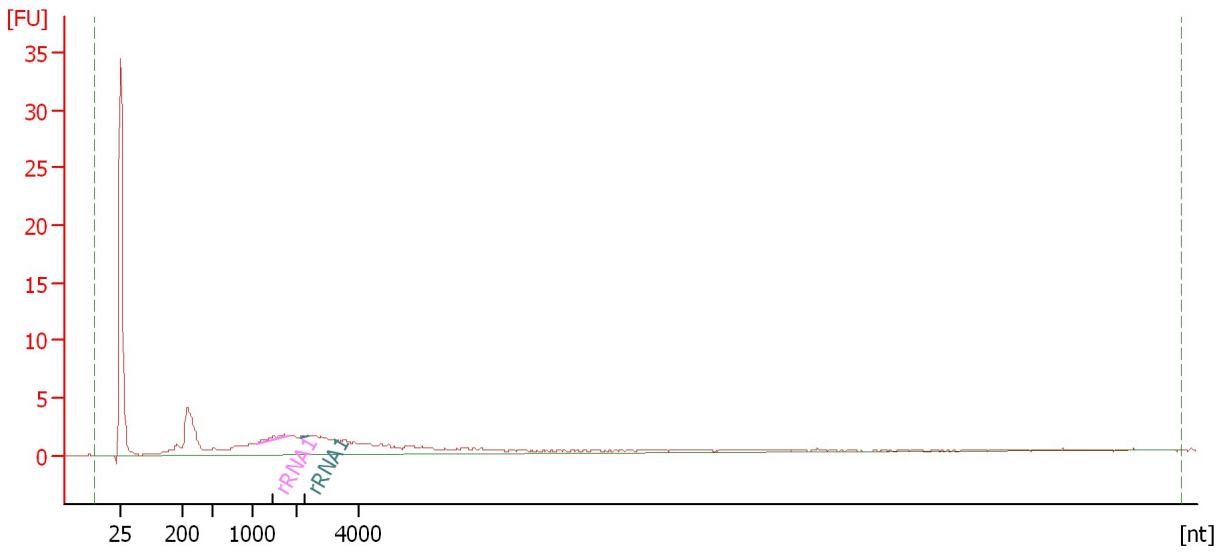
RNA Area: 129.3 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 1



Overall Results for sample 1 : Sample 1

RNA Area: 82.2 rRNA Contamination: 1.4 %
RNA Concentration: 636 pg/μl

Fragment table for sample 1 : Sample 1

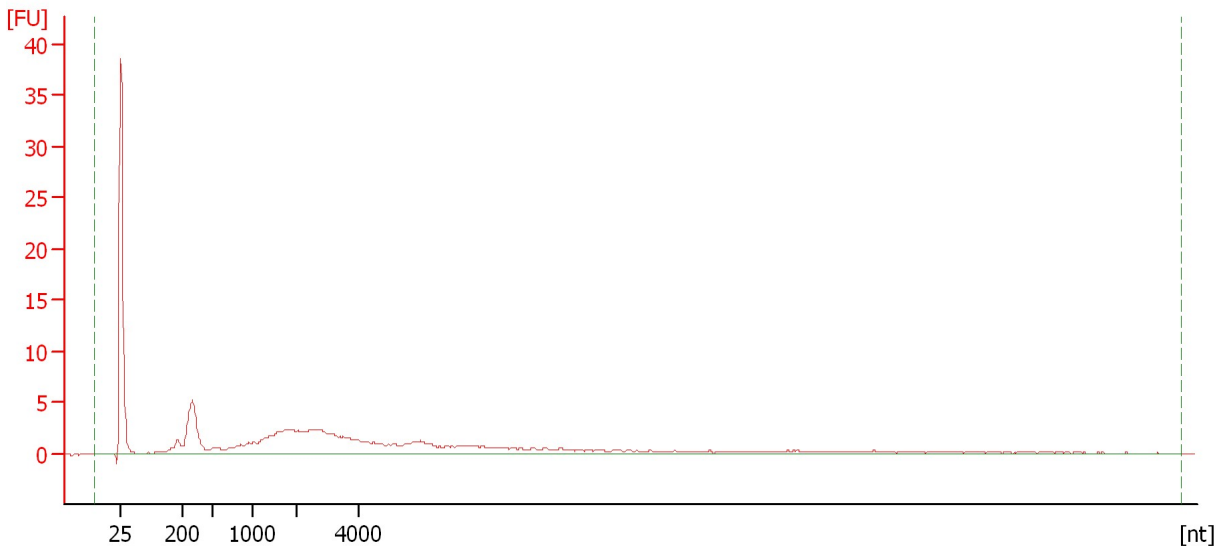
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,121	1,815	1.0	1.3
rRNA1	2,148	2,401	0.1	0.1

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 2



Overall Results for sample 2 : Sample 2

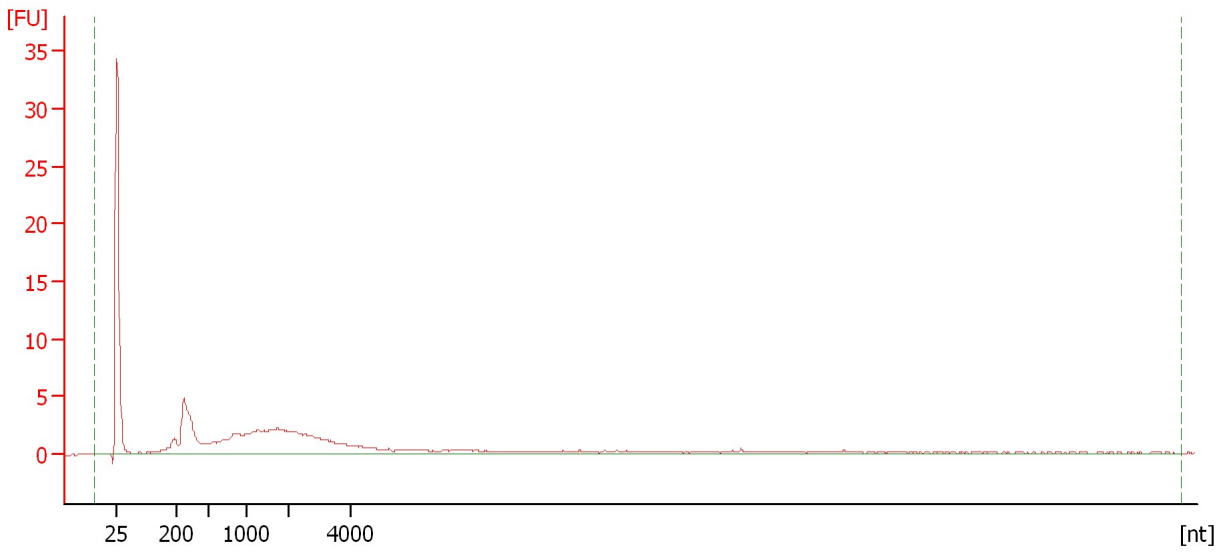
RNA Area: 112.0 rRNA Contamination: 0.0 %
RNA Concentration: 866 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 3



Overall Results for sample 3 : Sample 3

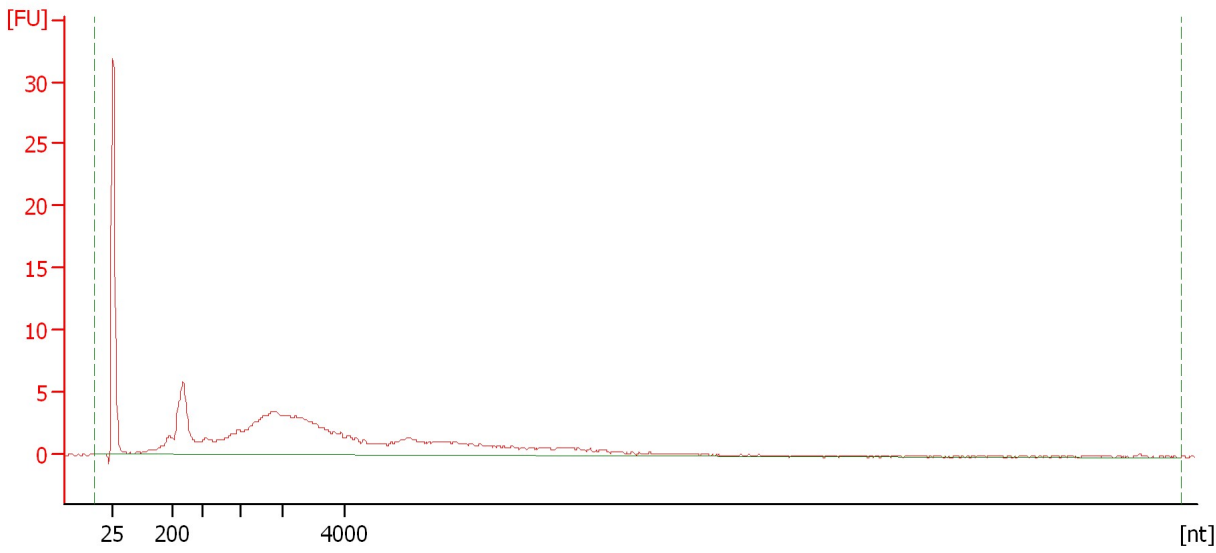
RNA Area: 93.8 rRNA Contamination: 0.0 %
RNA Concentration: 726 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 4



Overall Results for sample 4 : Sample 4

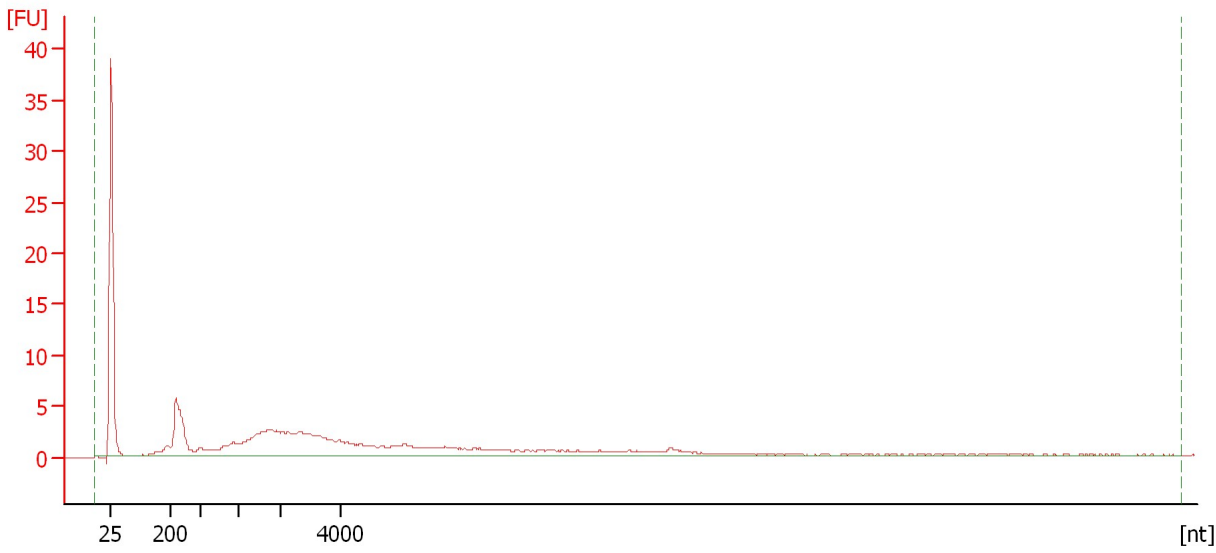
RNA Area:	144.2	rRNA Contamination:	0.0 %
RNA Concentration:	1,116 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 5



Overall Results for sample 5 : Sample 5

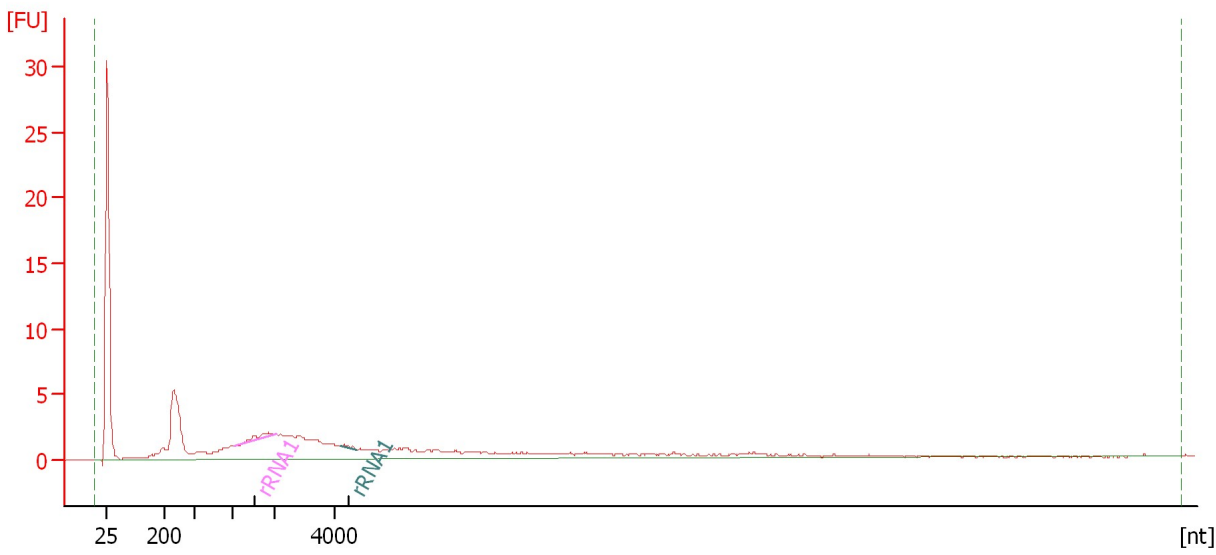
RNA Area: 123.4 rRNA Contamination: 0.0 %
RNA Concentration: 955 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 6



Overall Results for sample 6 : Sample 6

RNA Area: 93.7 rRNA Contamination: 2.3 %
RNA Concentration: 725 pg/μl

Fragment table for sample 6 : Sample 6

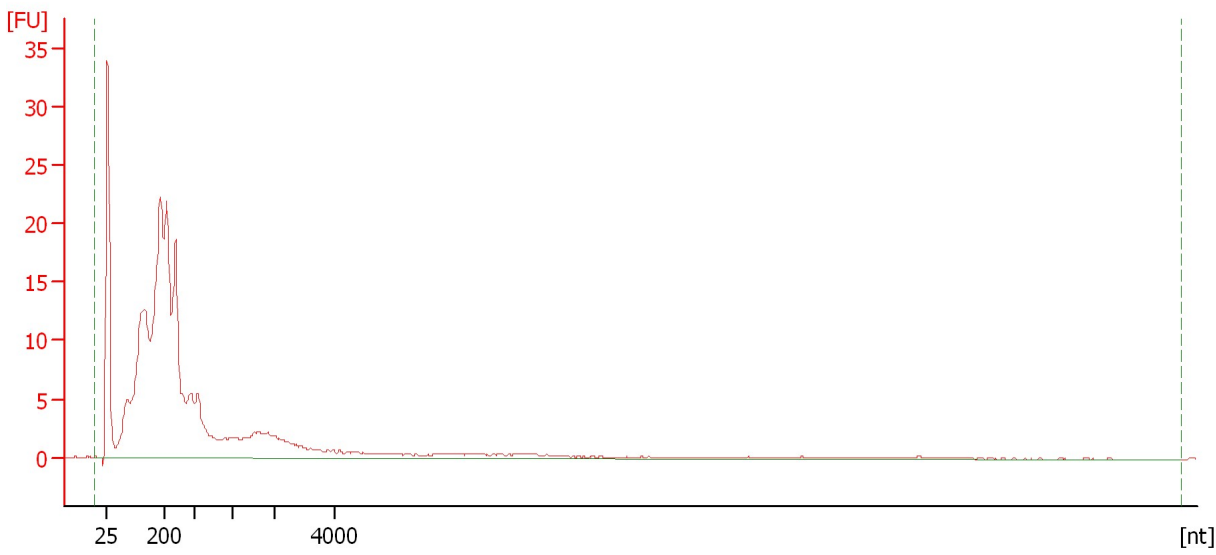
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,069	2,092	1.9	2.0
rRNA1	4,243	4,748	0.2	0.2

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 7



Overall Results for sample 7 : Sample 7

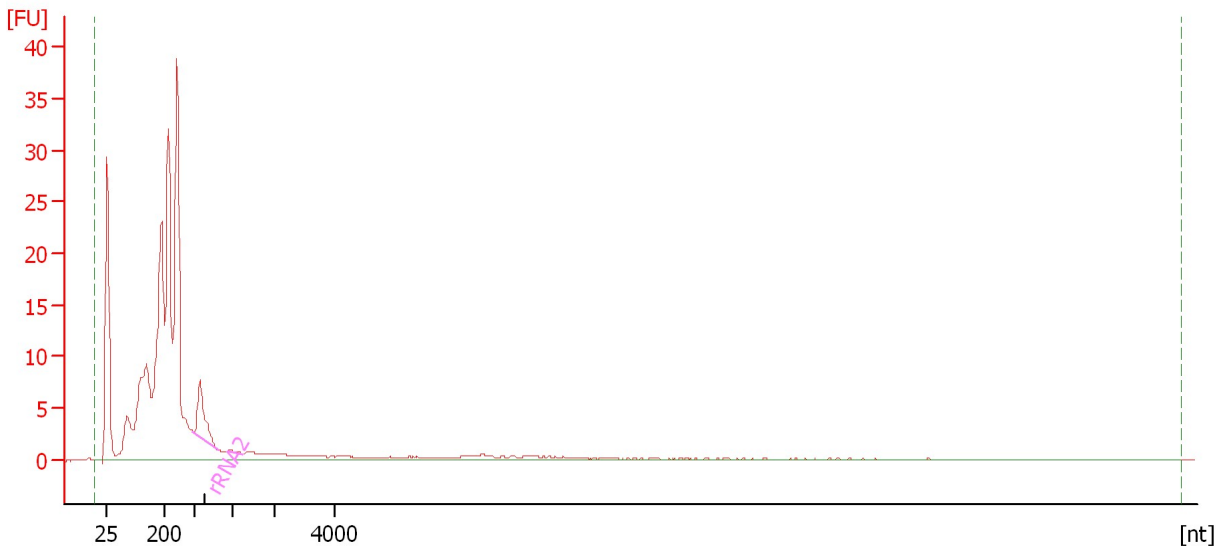
RNA Area: 322.7 rRNA Contamination: 0.0 %
RNA Concentration: 2,496 pg/μl

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 8



Overall Results for sample 8 : Sample 8

RNA Area: 299.2 rRNA Contamination: 4.0 %
RNA Concentration: 2,314 pg/μl

Fragment table for sample 8 : Sample 8

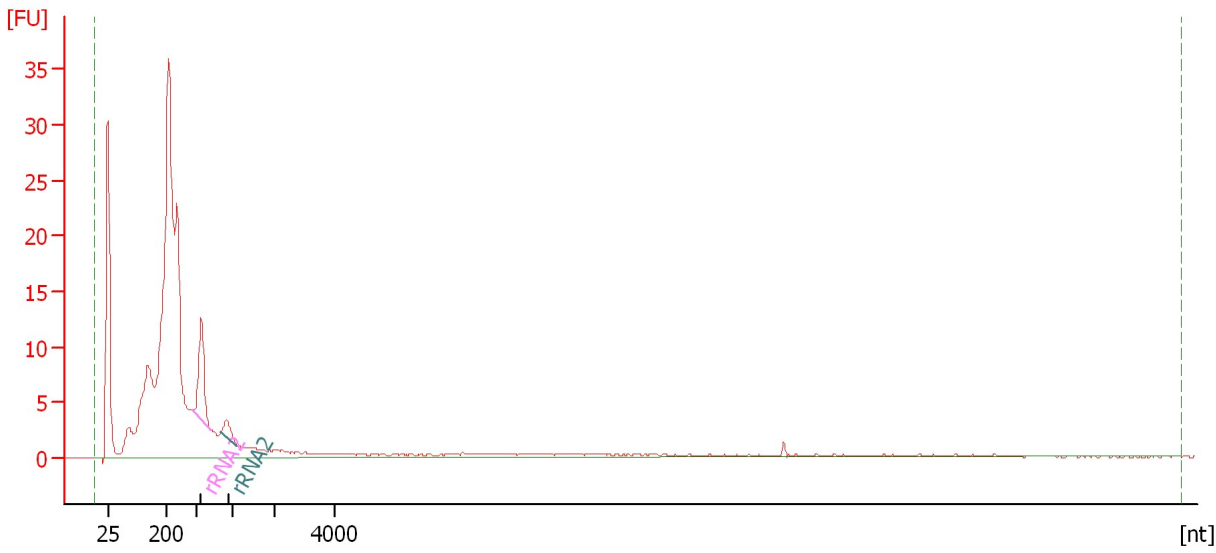
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	483	812	12.0	4.0

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 9



Overall Results for sample 9 : Sample 9

RNA Area: 297.3 rRNA Contamination: 6.2 %
RNA Concentration: 2,300 pg/μl

Fragment table for sample 9 : Sample 9

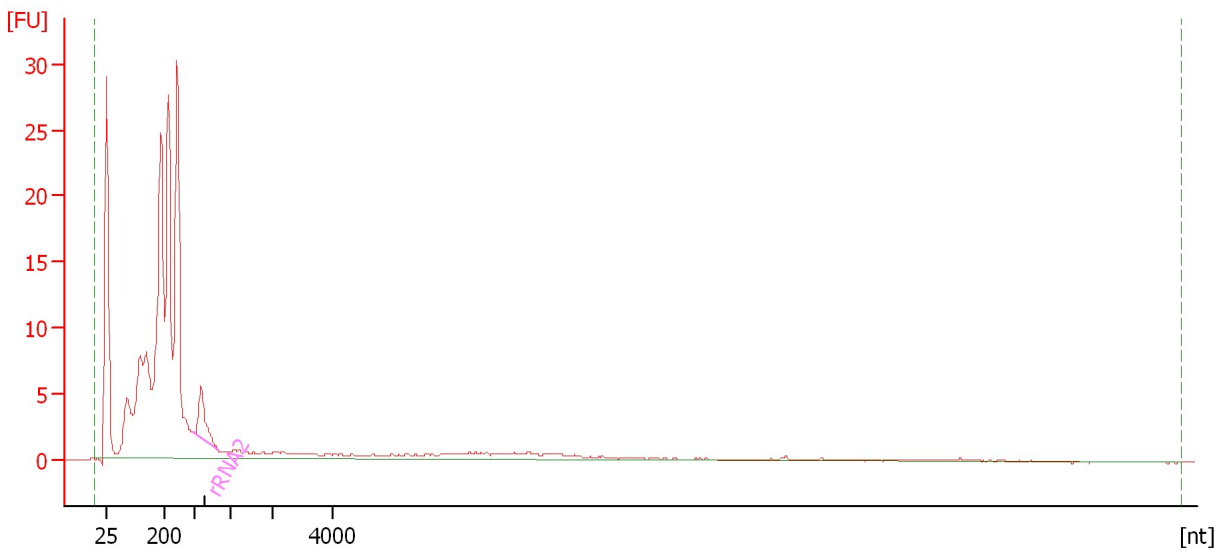
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	473	689	15.5	5.2
rRNA2	840	1,098	3.0	1.0

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 10



Overall Results for sample 10 : Sample 10

RNA Area: 262.2 rRNA Contamination: 3.2 %
RNA Concentration: 2,028 pg/μl

Fragment table for sample 10 : Sample 10

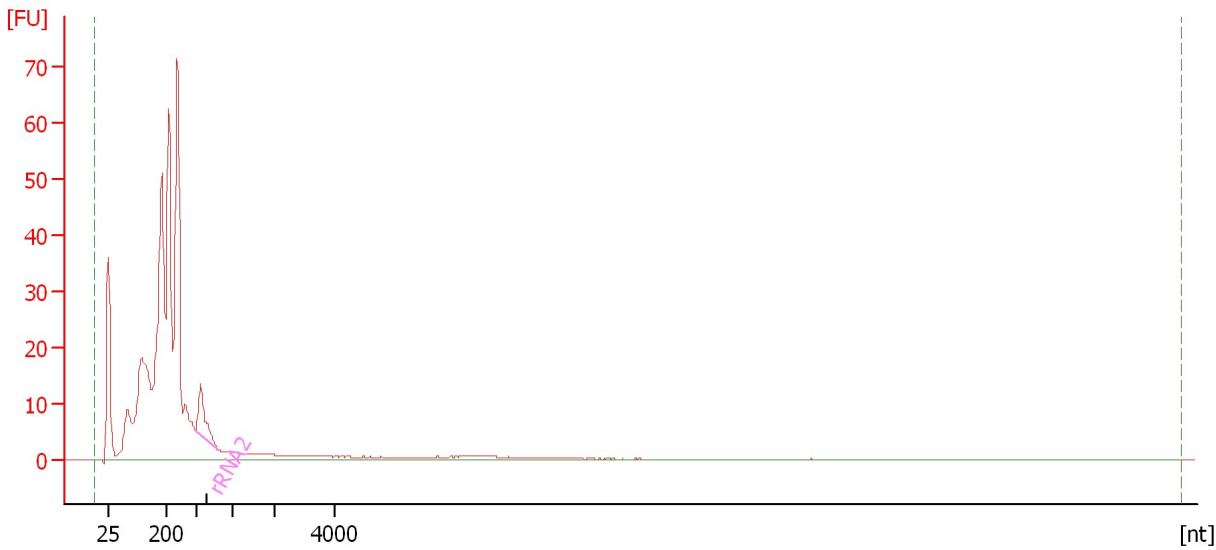
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	494	827	8.4	3.2

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Electropherogram Summary Continued ...

Sample 11



Overall Results for sample 11 : Sample 11

RNA Area: 558.2 rRNA Contamination: 3.4 %
RNA Concentration: 4,318 pg/μl

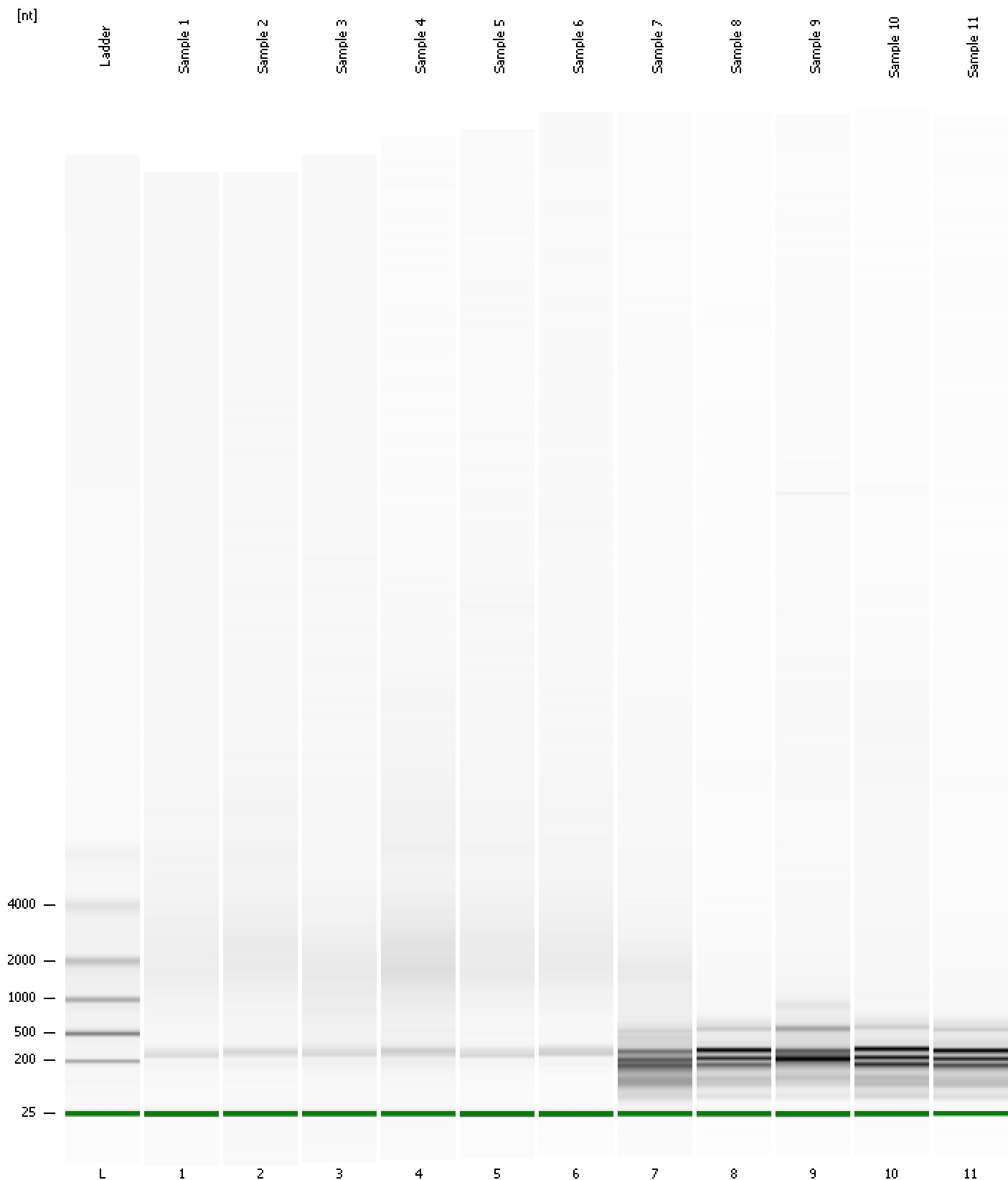
Fragment table for sample 11 : Sample 11

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	488	797	18.8	3.4

Assay Class: mRNA Pico
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
Modified: 3/12/2015 6:32:26 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad

Created: 3/12/2015 6:07:25 PM
 Modified: 3/12/2015 6:32:26 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		3/12/2015 8:32:21 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-12\2015-03-12_003.xad)		Instrument	Run		3/12/2015 8:07:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/12/2015 8:07:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/12/2015 8:07:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/12/2015 8:07:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/12/2015 8:07:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/12/2015 8:07:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/12/2015 8:07:25 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1