

Assay Class: mRNA Pico  
Data Path: C:\... expert\data\2016-04-26\2016-04-26\_001\_QC073\_TotalRNAQC.xad

Created: 4/26/2016 11:21:47 AM  
Modified: 4/26/2016 2:55:52 PM

**Electrophoresis File Run Summary**

Instrument Information:

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

Assay Information:

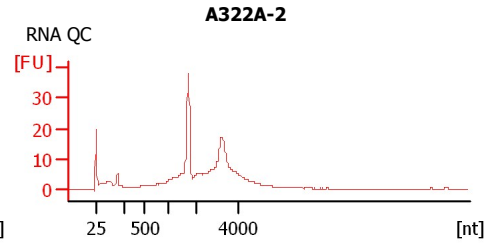
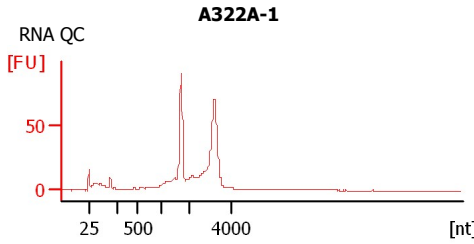
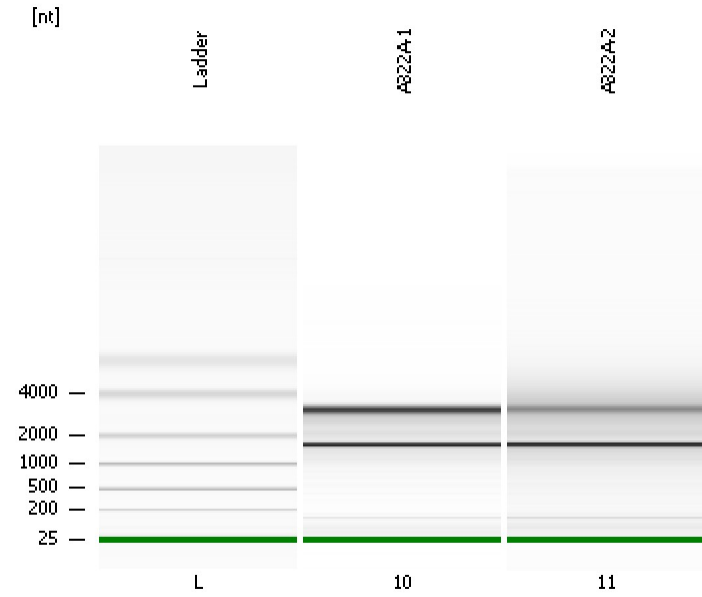
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
A322A-1	RNA QC	✓		
A322A-2	RNA QC	✓		
Ladder		✓		

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**

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## 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/ $\mu$ l] : 1000  
Lower Marker Concentration [pg/ $\mu$ l] : 0  
Upper Marker Concentration [pg/ $\mu$ 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

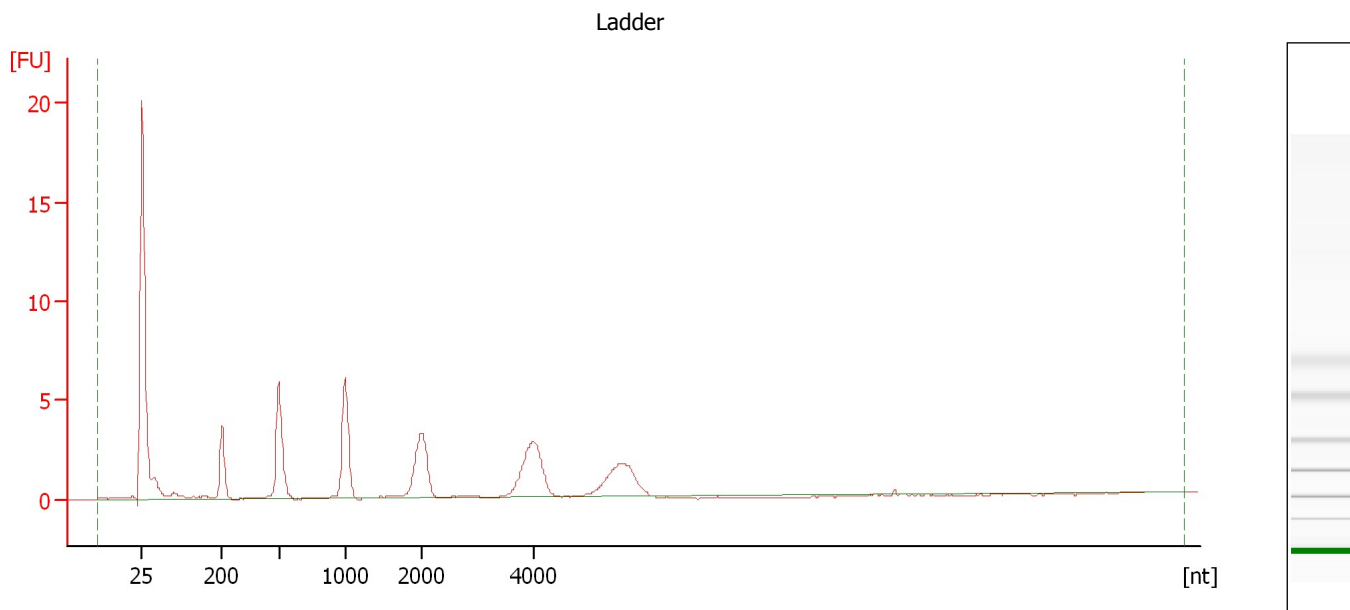
### Ladder

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

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**Electropherogram Summary**



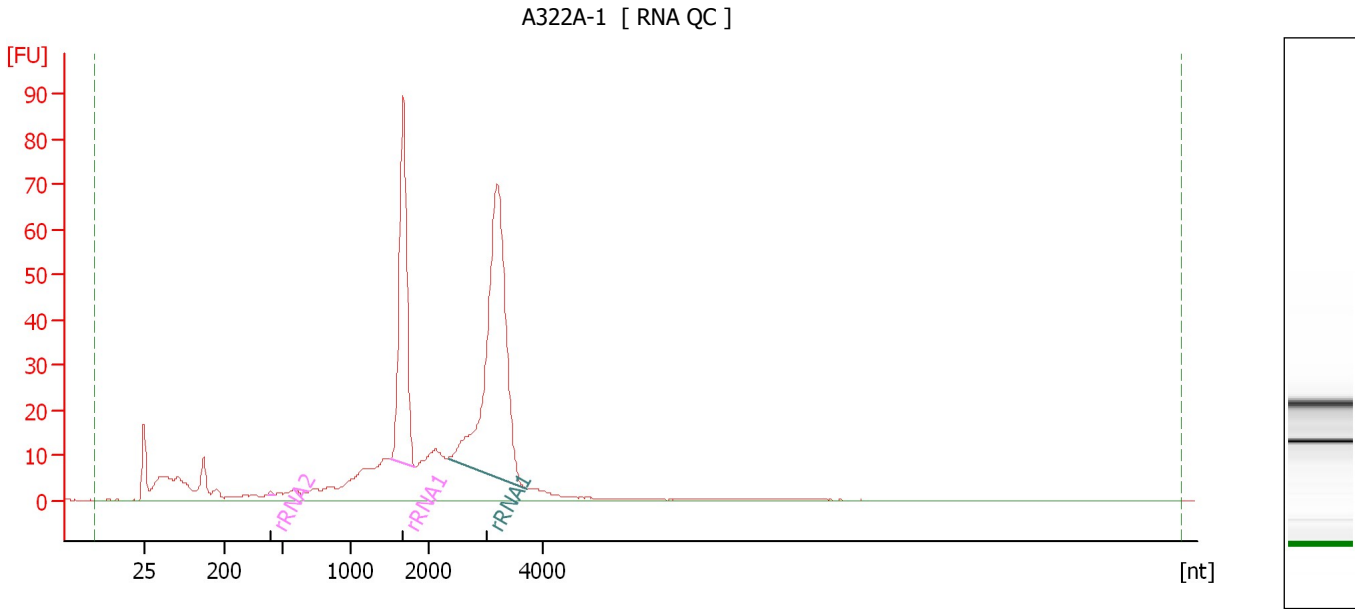
**Overall Results for Ladder**

RNA Area: 52.2                      RNA Concentration: 1,000 pg/μl

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : A322A-1**

RNA Area: 727.5                      rRNA Contamination: 48.7 %  
 RNA Concentration: 13,947 pg/μl

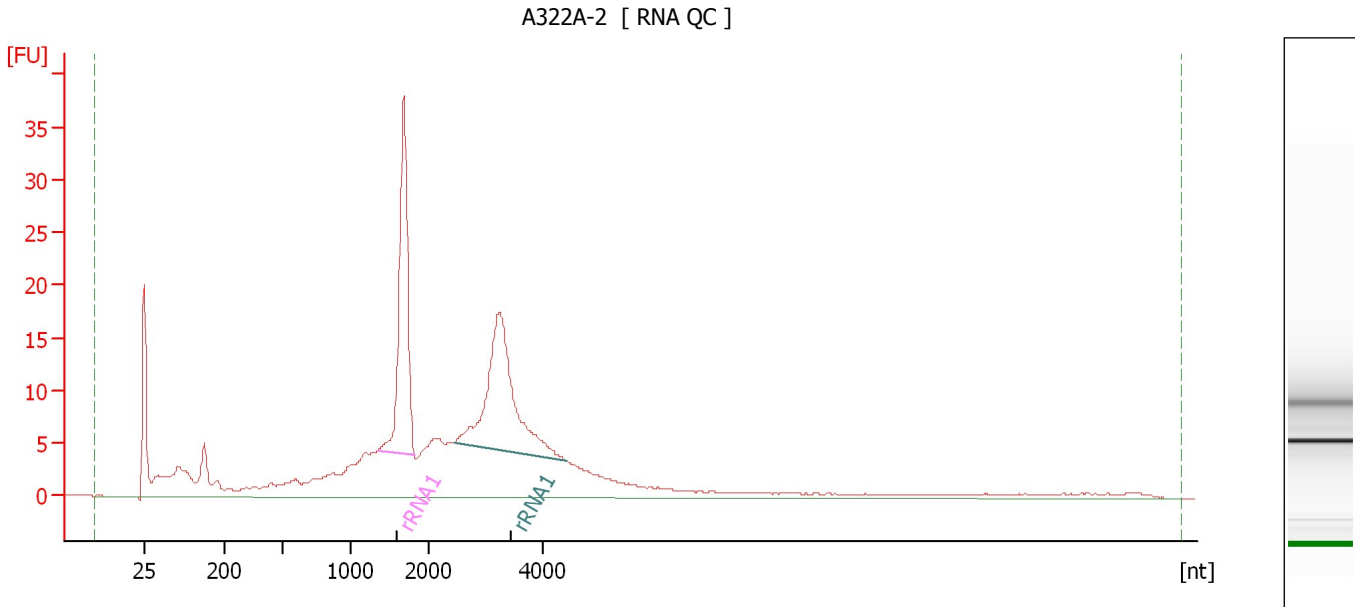
**Fragment table for sample 10 : A322A-1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	422	455	0.5	0.1
rRNA1	1,516	1,831	131.4	18.1
rRNA1	2,340	3,708	222.4	30.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : A322A-2**

RNA Area: 396.5                      rRNA Contamination: 30.8 %  
RNA Concentration: 7,603 pg/μl

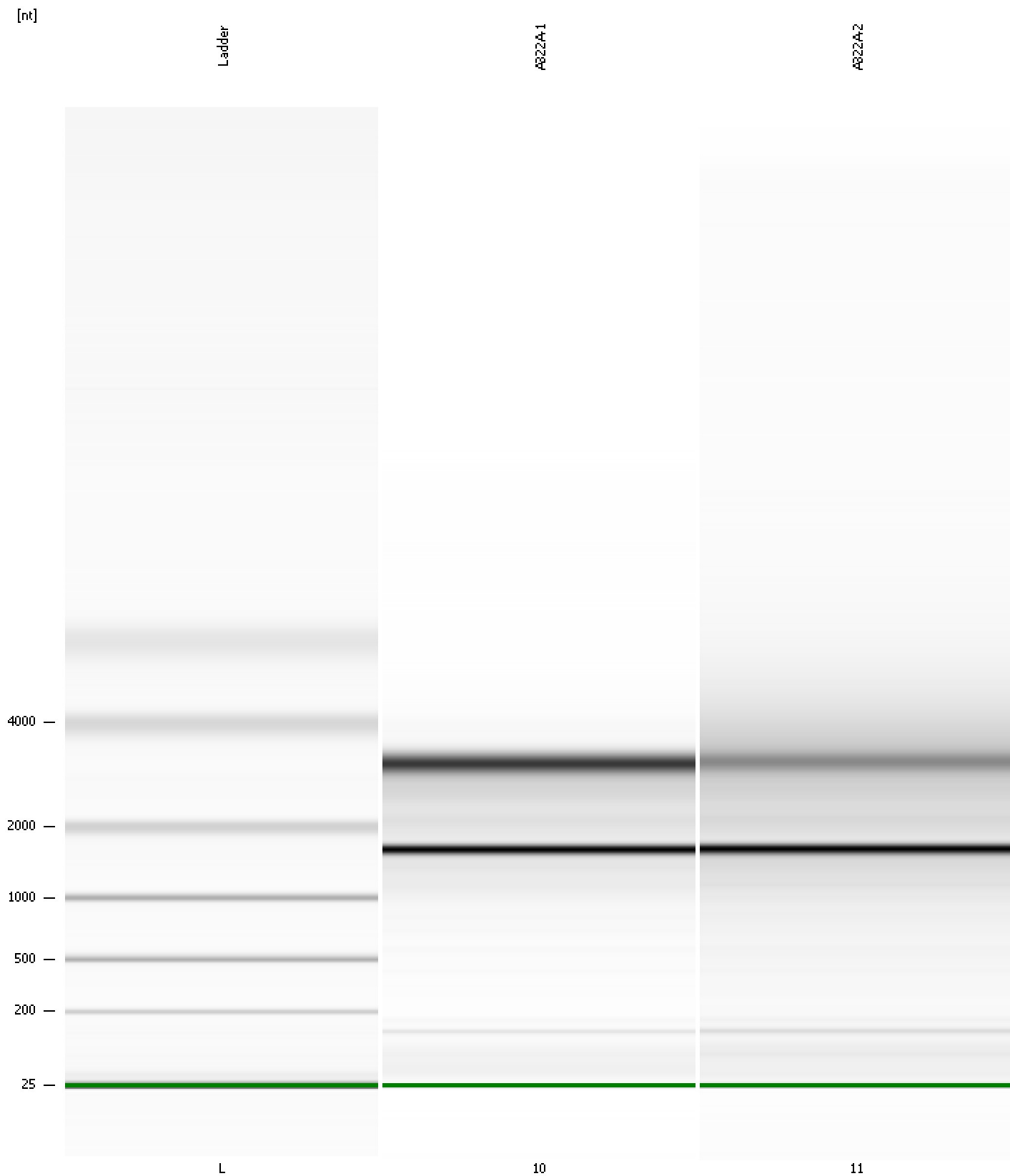
**Fragment table for sample 11 : A322A-2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,354	1,821	60.0	15.1
rRNA1	2,452	4,434	61.9	15.6

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**Gel Image**

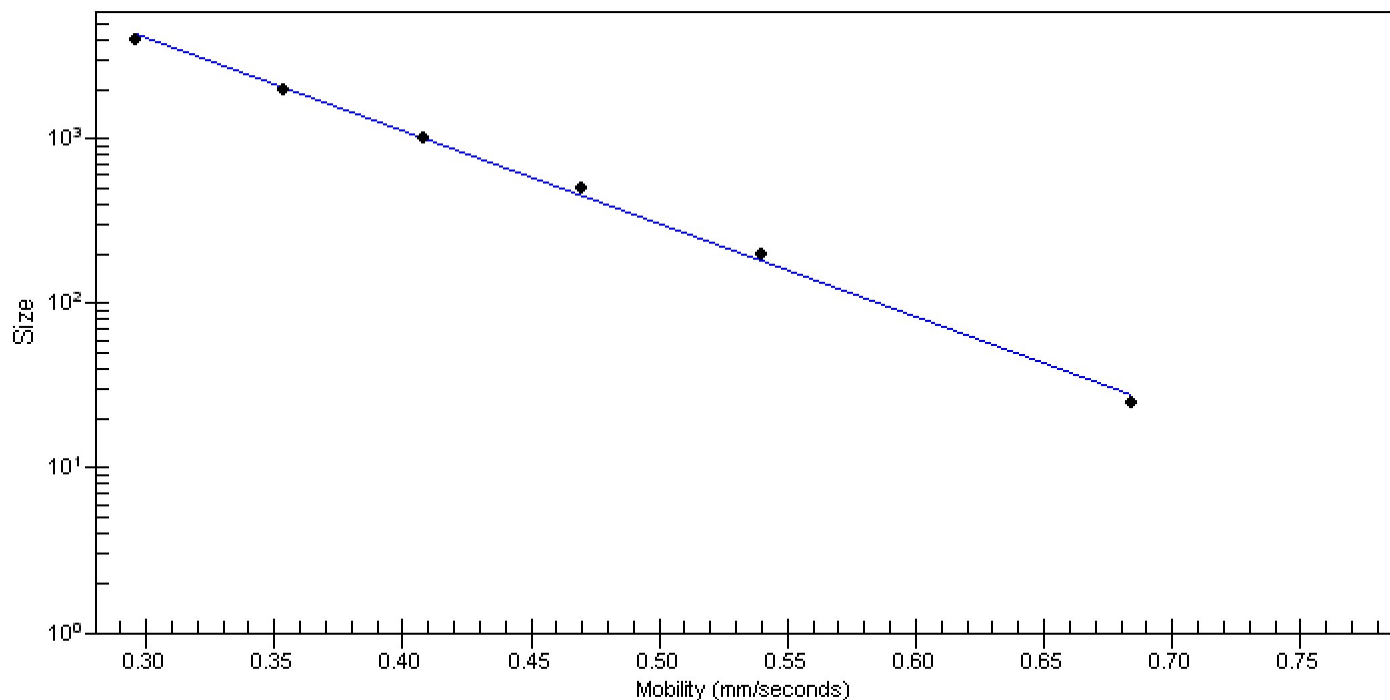


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**Curves**

**Standard Curve**





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**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		4/26/2016 11:47:40 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-04-26\2016-04-26_001.xad)		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/26/2016 11:21:53 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1