

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...r\2100 expert\data\2016-11-21\2016-11-21\_005\_LopezRNAQC.xad

Created: 11/21/2016 4:01:56 PM  
Modified: 11/21/2016 4:32:36 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

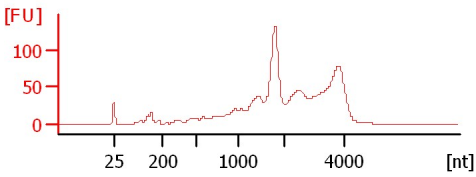
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)

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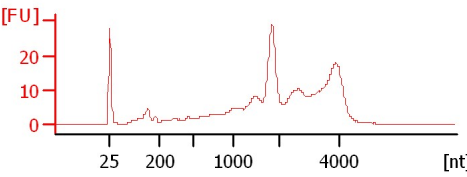
Chip Information:

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

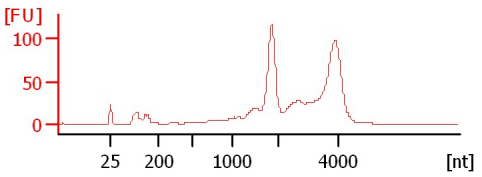
**1**  
Lopez RNA QC  
RIN: 6.90



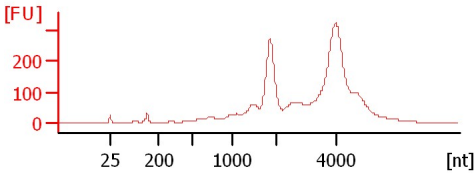
**4**  
Lopez RNA QC  
RIN: 7.60



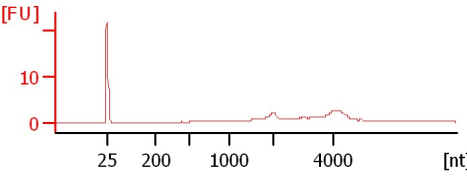
**25**  
Lopez RNA QC  
RIN: 8.60



**41**  
Lopez RNA QC  
RIN: 8.90



**44**  
Lopez RNA QC  
RIN: 5



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

Sample Name	Sample Comment	Status	Result Label	Result Color
1	Lopez RNA QC	✓	RIN: 6.90	
4	Lopez RNA QC	✓	RIN: 7.60	
25	Lopez RNA QC	✓	RIN: 8.60	
41	Lopez RNA QC	✓	RIN: 8.90	
44	Lopez RNA QC	✓	RIN:5	
Ladder		✓	All Other Samples	

**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] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
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] : 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

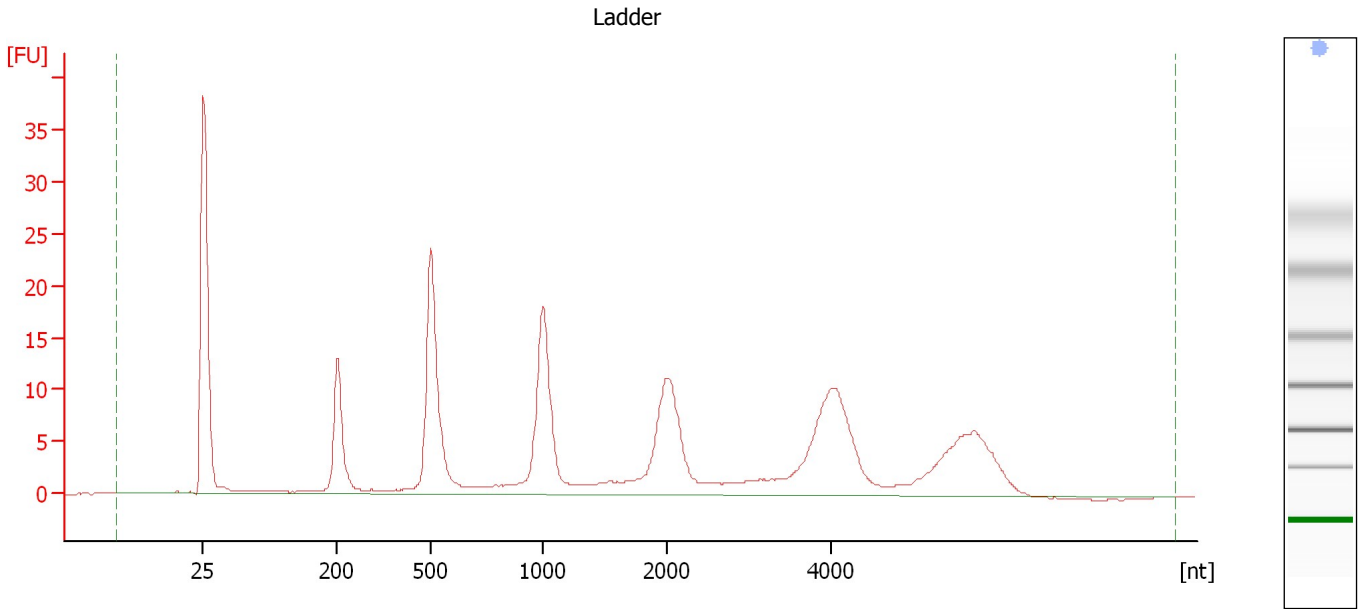
### Ladder

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

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**Electropherogram Summary**



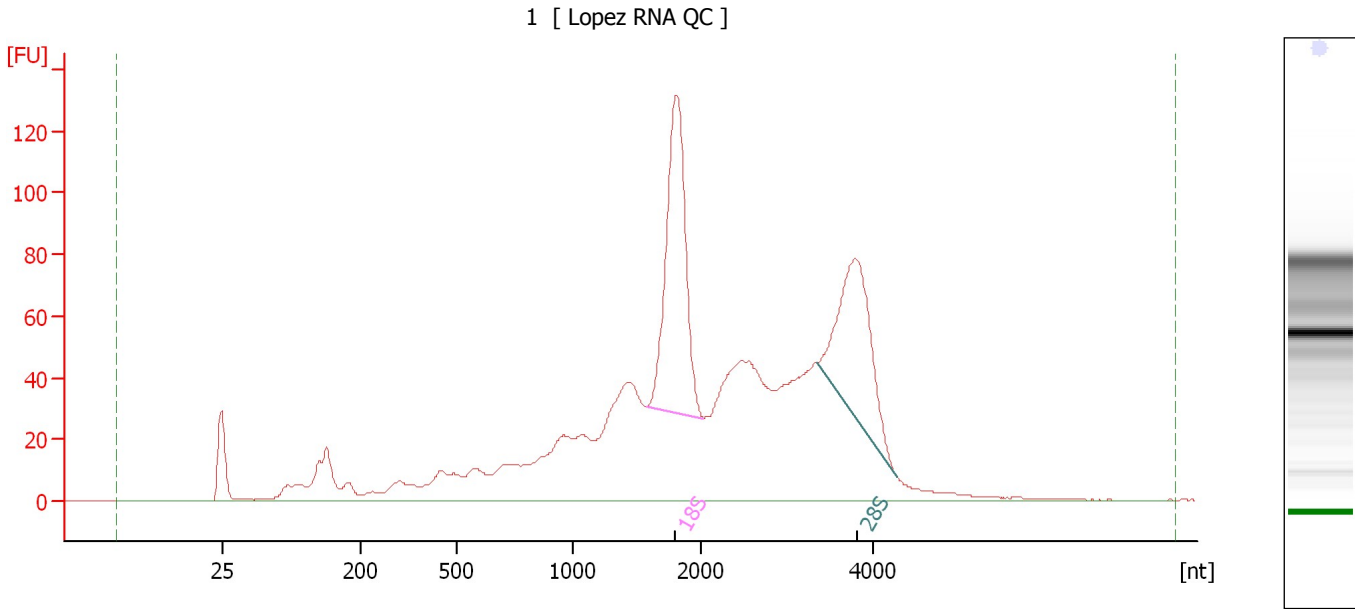
**Overall Results for Ladder**

RNA Area:	249.0	Result Flagging Color:	<span style="background-color: #add8e6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 1**

RNA Area:	1,752.4	RNA Integrity Number (RIN):	6.9 (B.02.08)
RNA Concentration:	7,038 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.7	Result Flagging Label:	RIN: 6.90

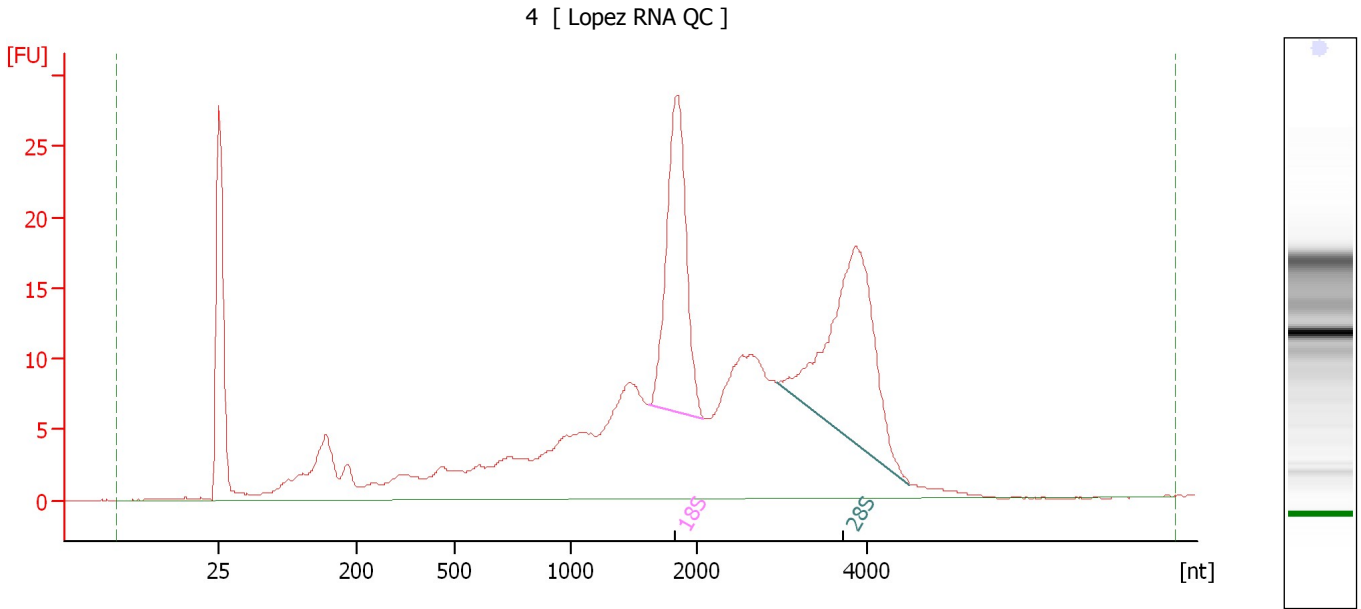
**Fragment table for sample 4 : 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,566	2,029	235.5	13.4
28S	3,349	4,283	168.2	9.6

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 4**

RNA Area:	404.6	RNA Integrity Number (RIN):	7.6 (B.02.08)
RNA Concentration:	1,625 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.2	Result Flagging Label:	RIN: 7.60

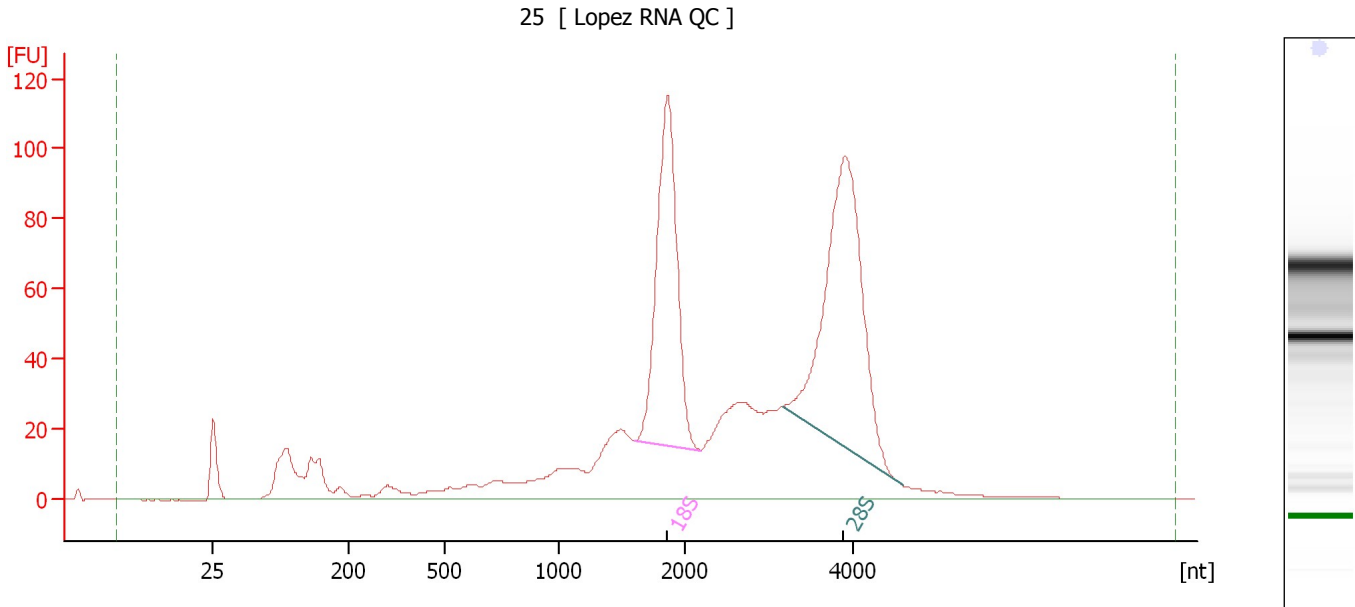
**Fragment table for sample 5 : 4**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,622	2,077	51.9	12.8
28S	2,927	4,491	62.6	15.5

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 25**

RNA Area:	1,333.3	RNA Integrity Number (RIN):	8.6 (B.02.08)
RNA Concentration:	5,355 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	1.3	Result Flagging Label:	RIN: 8.60

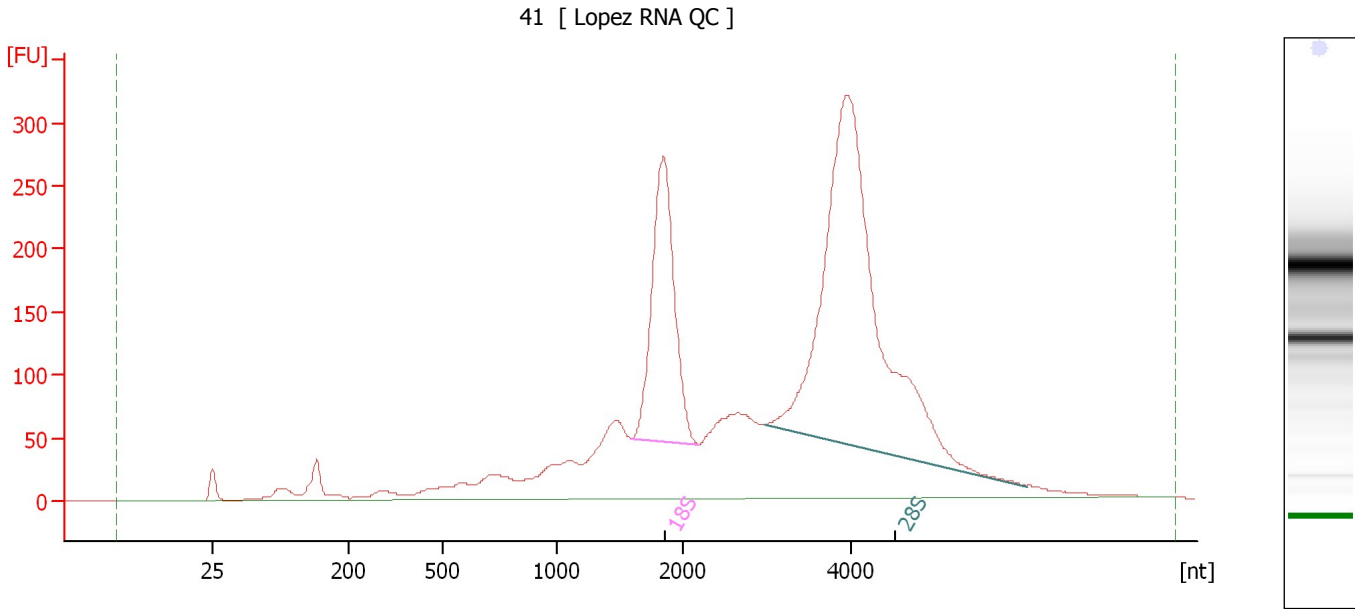
**Fragment table for sample 6 : 25**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,605	2,199	240.7	18.1
28S	3,161	4,579	311.0	23.3

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**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 41**

RNA Area:	4,351.0	RNA Integrity Number (RIN):	8.9 (B.02.08)
RNA Concentration:	17,476 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	2.4	Result Flagging Label:	RIN: 8.90

**Fragment table for sample 7 : 41**

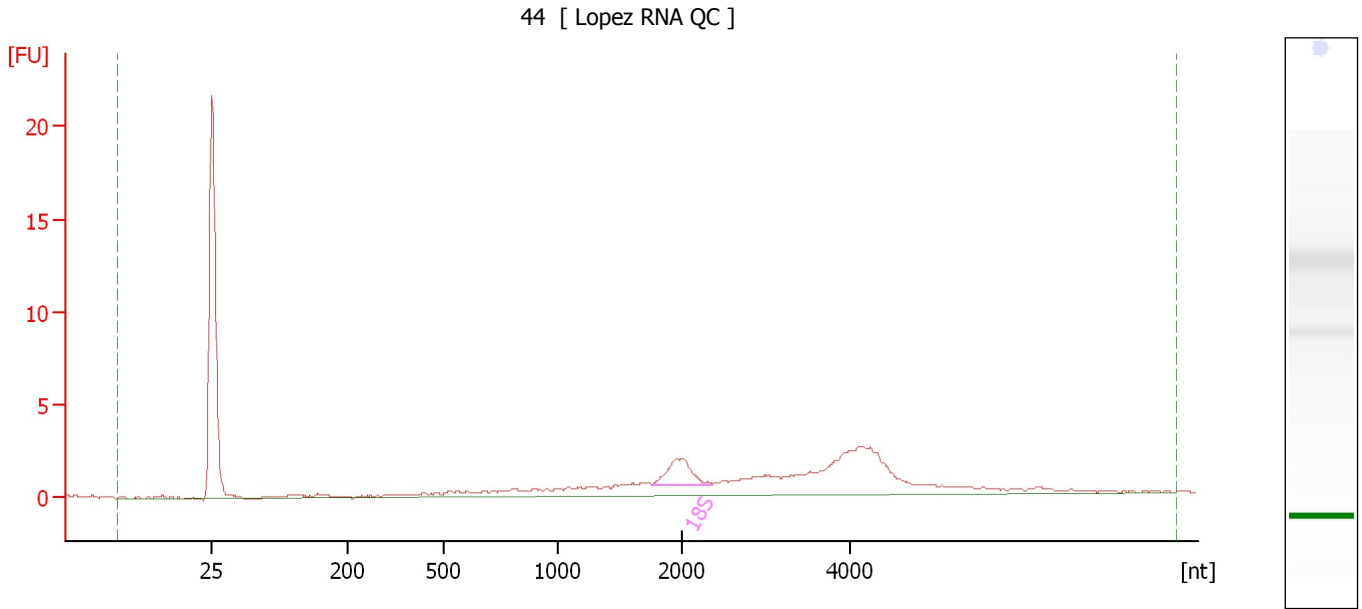
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,586	2,185	603.8	13.9
28S	2,985	6,080	1,467.6	33.7



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**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 44**

RNA Area:	46.4	RNA Integrity Number (RIN):	5 (B.02.08)
RNA Concentration:	186 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:5

**Fragment table for sample 8 : 44**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,764	2,363	3.8	8.2

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**Gel Image**

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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		11/21/2016 4:24:49 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-11-21\2016-11-21_005.xad)		Instrument	Run		11/21/2016 4:02:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		11/21/2016 4:02:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		11/21/2016 4:02:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		11/21/2016 4:02:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		11/21/2016 4:02:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		11/21/2016 4:02:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		11/21/2016 4:02:02 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1