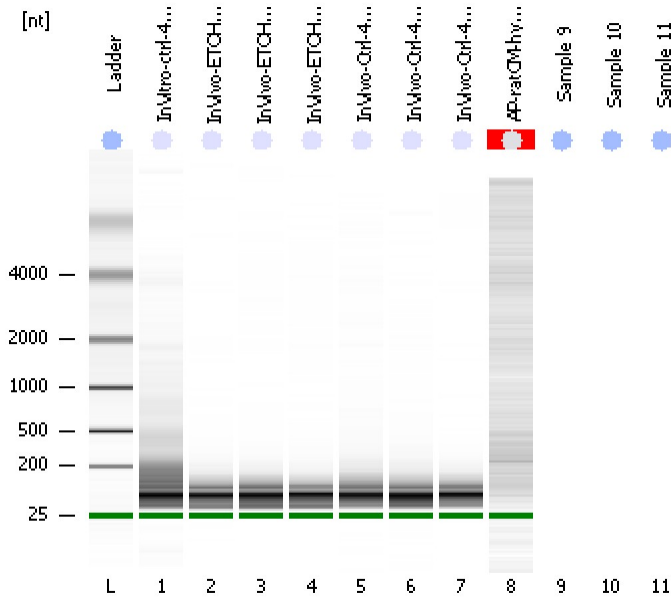


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

Electrophoresis File Run Summary



Instrument Information:

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

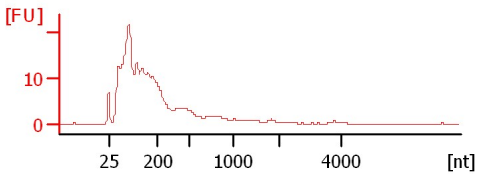
Assay Information:

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)  
© Copyright 2003 - 2009 Agilent Technologies, Inc.

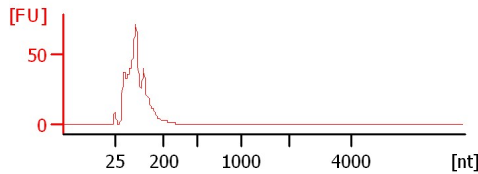
Chip Information:

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

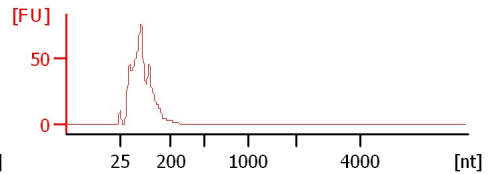
**InVivo-ctrl-4hr-3**  
RIN: 2.30



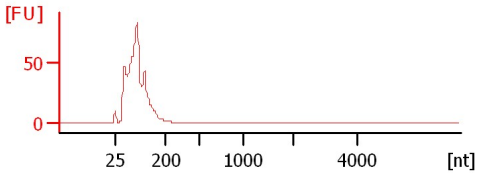
**InVivo-ETOH-4hr-1**  
RIN: 2.60



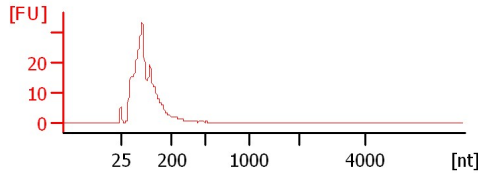
**InVivo-ETOH-4hr-2**  
RIN: 2.60



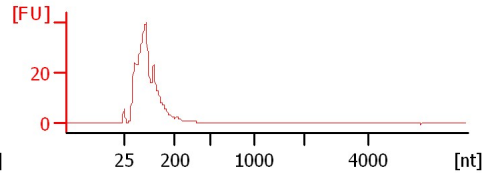
**InVivo-ETOH-4hr-3**  
RIN: 2.60



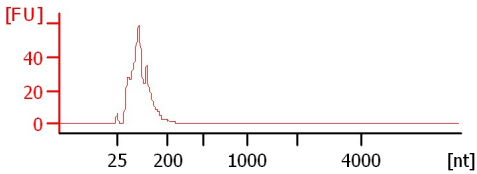
**InVivo-Ctrl-4hr-1**  
RIN: 2.50



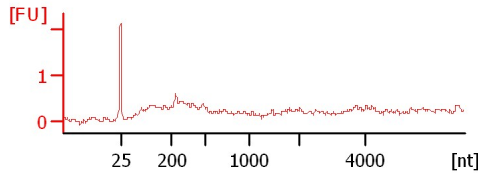
**InVivo-Ctrl-4hr-2**  
RIN: 2.60



**InVivo-Ctrl-4hr-3**  
RIN: 2.60



**AP-ratCM-hypo-1(retest)**  
RIN N/A



Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
 Modified: 3/31/2016 11:45:13 AM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
InVitro-ctrl-4hr-3		✓	RIN: 2.30	
InVivo-ETOH-4hr-1		✓	RIN: 2.60	
InVivo-ETOH-4hr-2		✓	RIN: 2.60	
InVivo-ETOH-4hr-3		✓	RIN: 2.60	
InVivo-Ctrl-4hr-1		✓	RIN: 2.50	
InVivo-Ctrl-4hr-2		✓	RIN: 2.60	
InVivo-Ctrl-4hr-3		✓	RIN: 2.60	
AP-ratCM-hypo-1(retest)		✓	RIN N/A	
Sample 9				
Sample 10				
Sample 11				
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**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

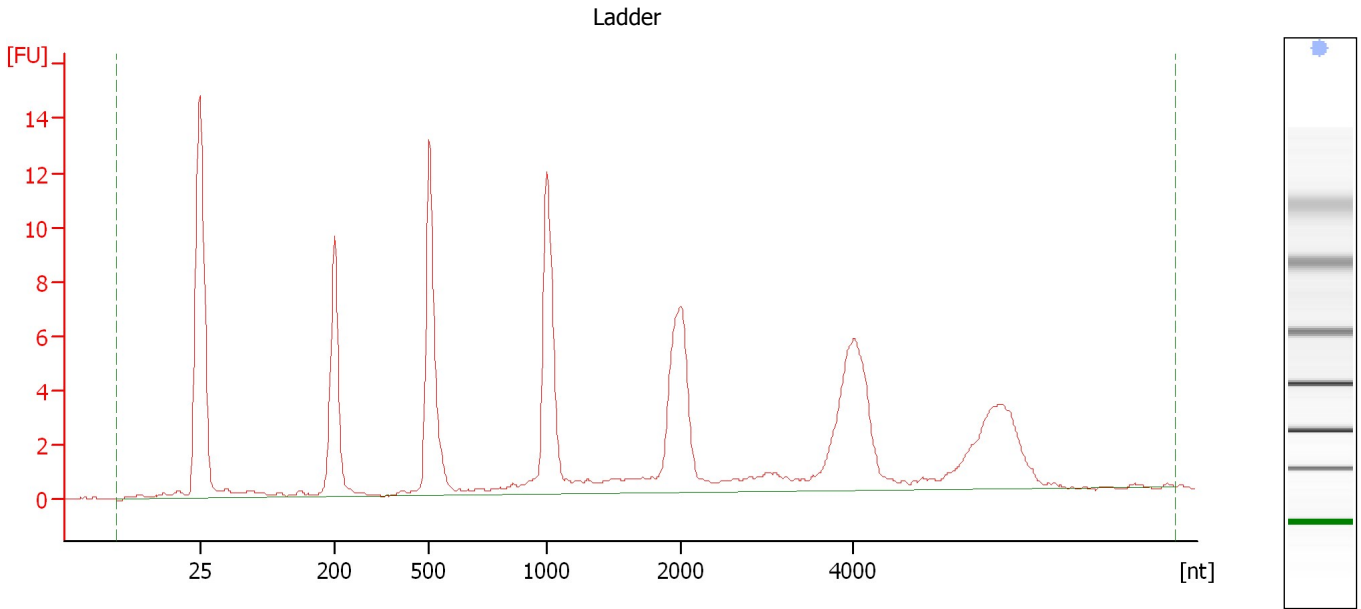
**Ladder**

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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary**



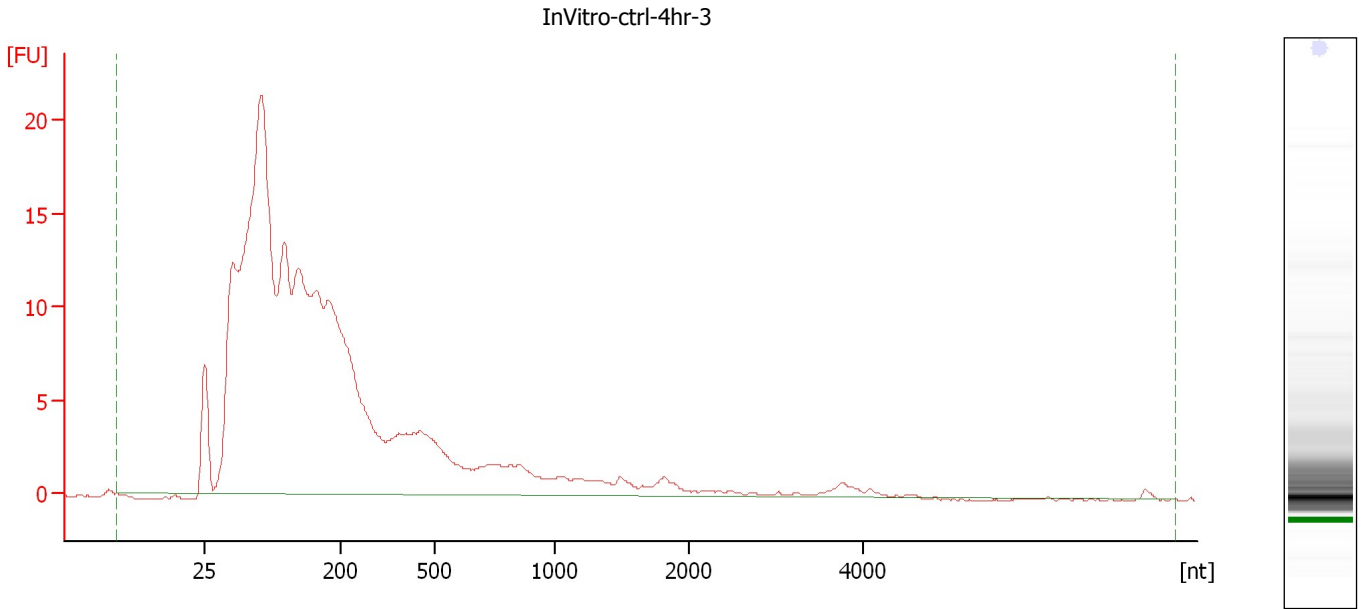
**Overall Results for Ladder**

RNA Area:	113.9	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

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



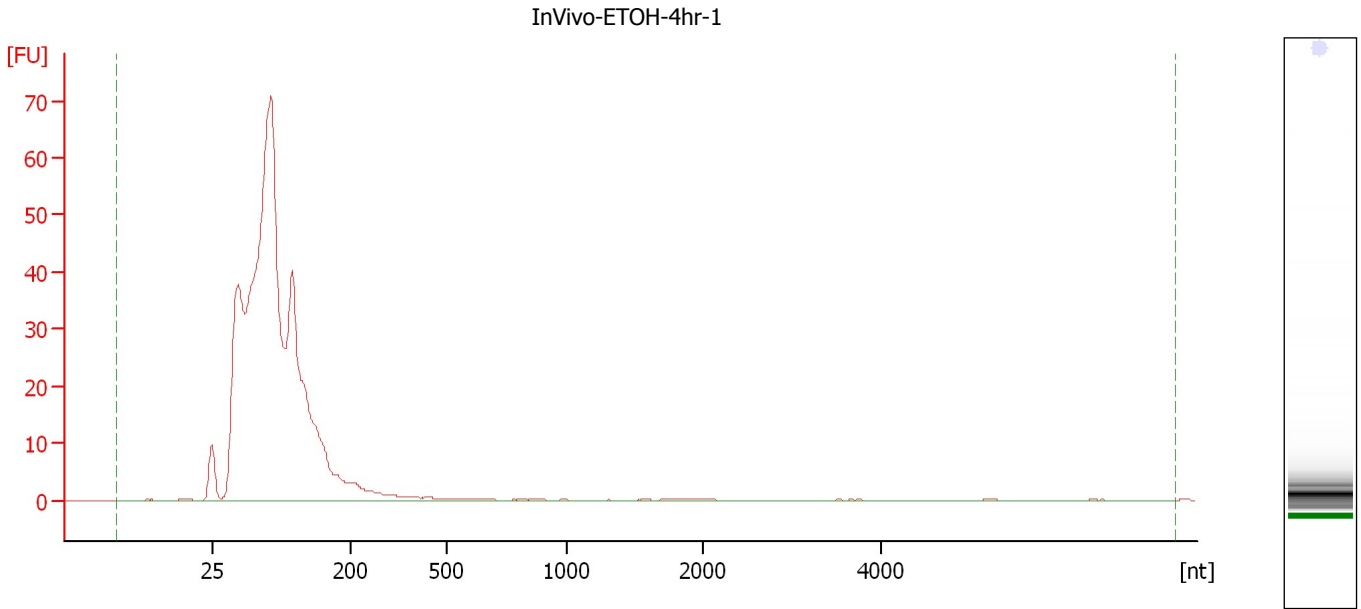
**Overall Results for sample 1 : InVitro-ctrl-4hr-3**

RNA Area:	351.3	RNA Integrity Number (RIN):	2.3 (B.02.08)
RNA Concentration:	3,084 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: 2.30

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



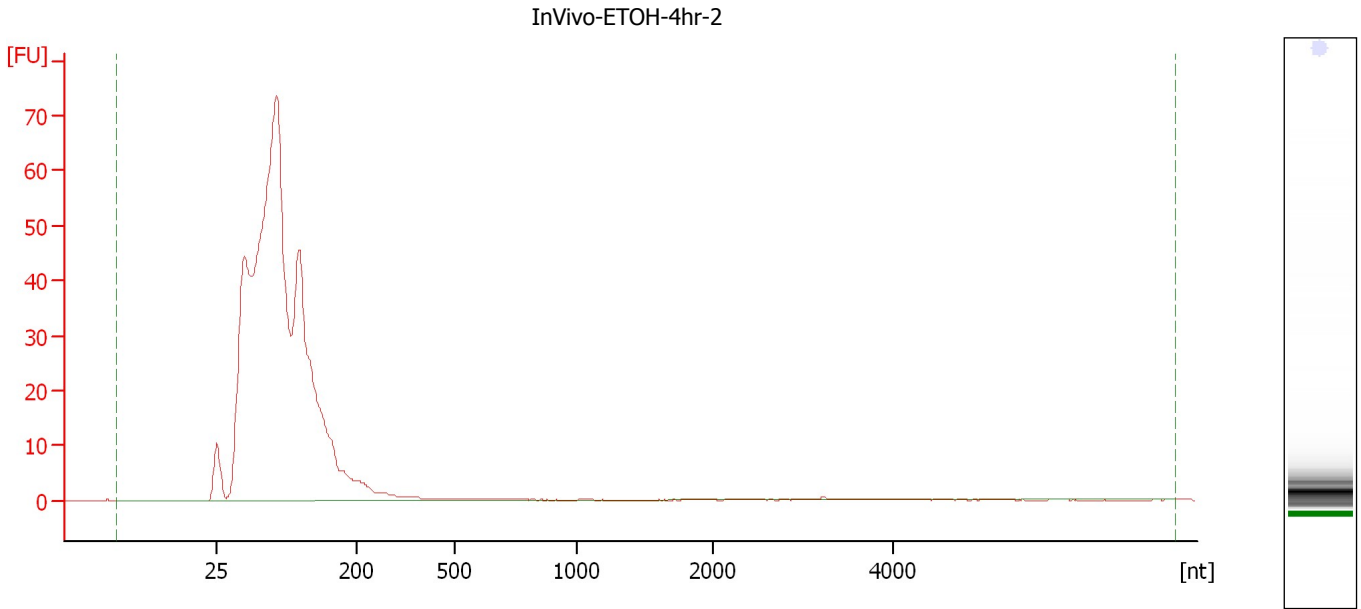
**Overall Results for sample 2 : InVivo-ETOH-4hr-1**

RNA Area:	597.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	5,244 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: 2.60

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



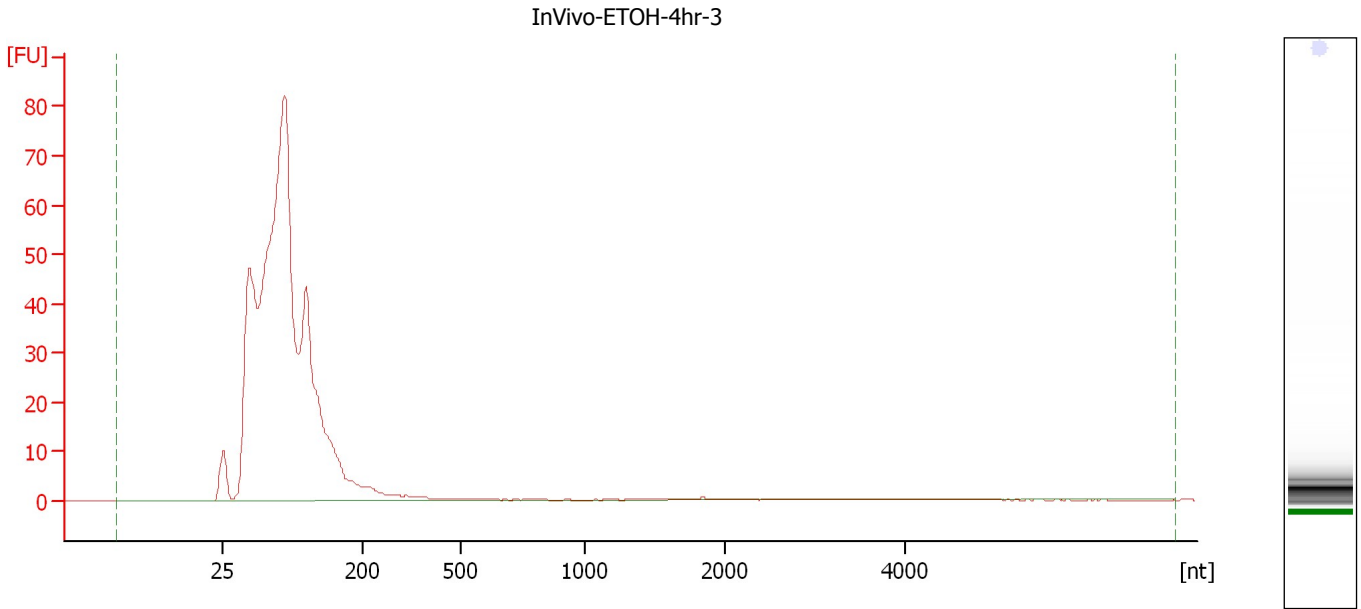
**Overall Results for sample 3 : InVivo-ETOH-4hr-2**

RNA Area:	684.6	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	6,009 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: 2.60

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : InVivo-ETOH-4hr-3**

RNA Area:	688.9	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	6,047 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: 2.60

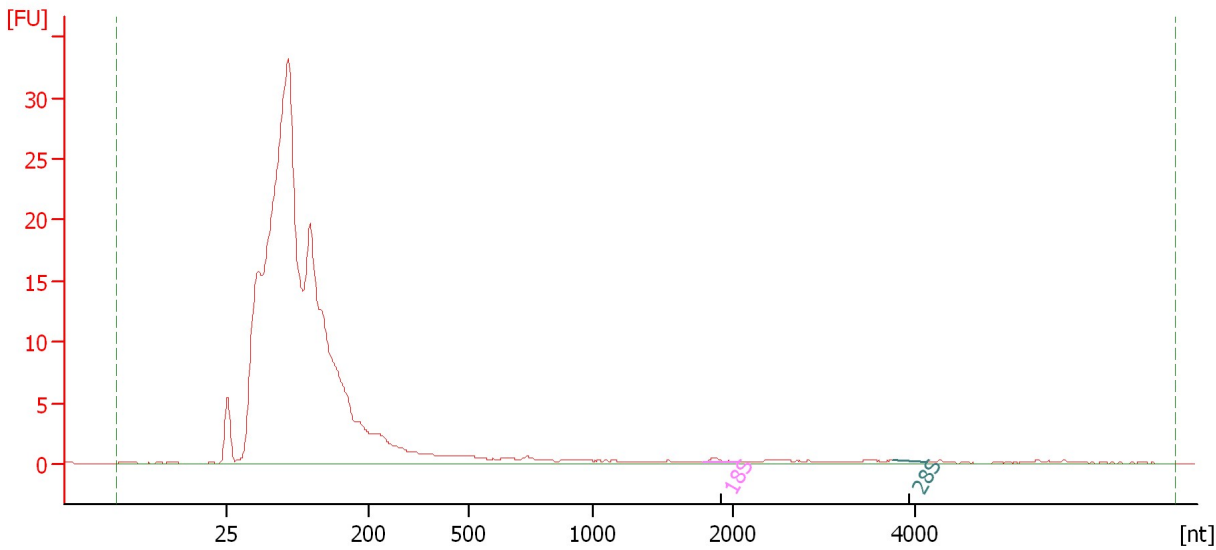


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**

InVivo-Ctrl-4hr-1



**Overall Results for sample 5 : InVivo-Ctrl-4hr-1**

RNA Area: 320.1 RNA Integrity Number (RIN): 2.5 (B.02.08)  
RNA Concentration: 2,810 pg/μl Result Flagging Color:   
rRNA Ratio [28s / 18s]: 0.2 Result Flagging Label: RIN: 2.50

**Fragment table for sample 5 : InVivo-Ctrl-4hr-1**

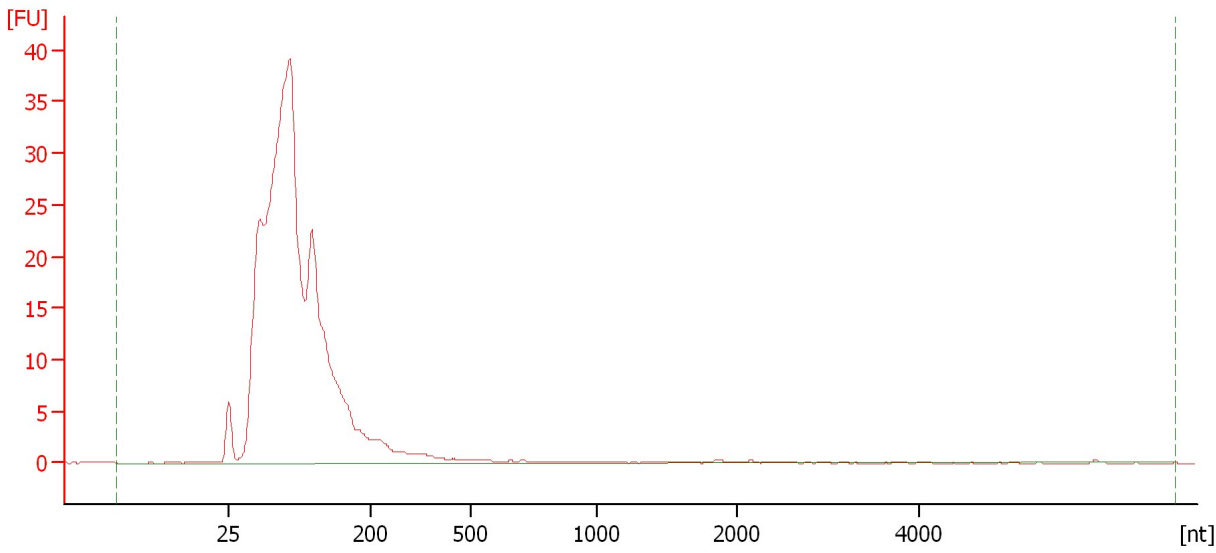
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,793	2,082	0.5	0.2
28S	3,758	4,144	0.1	0.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**

InVivo-Ctrl-4hr-2



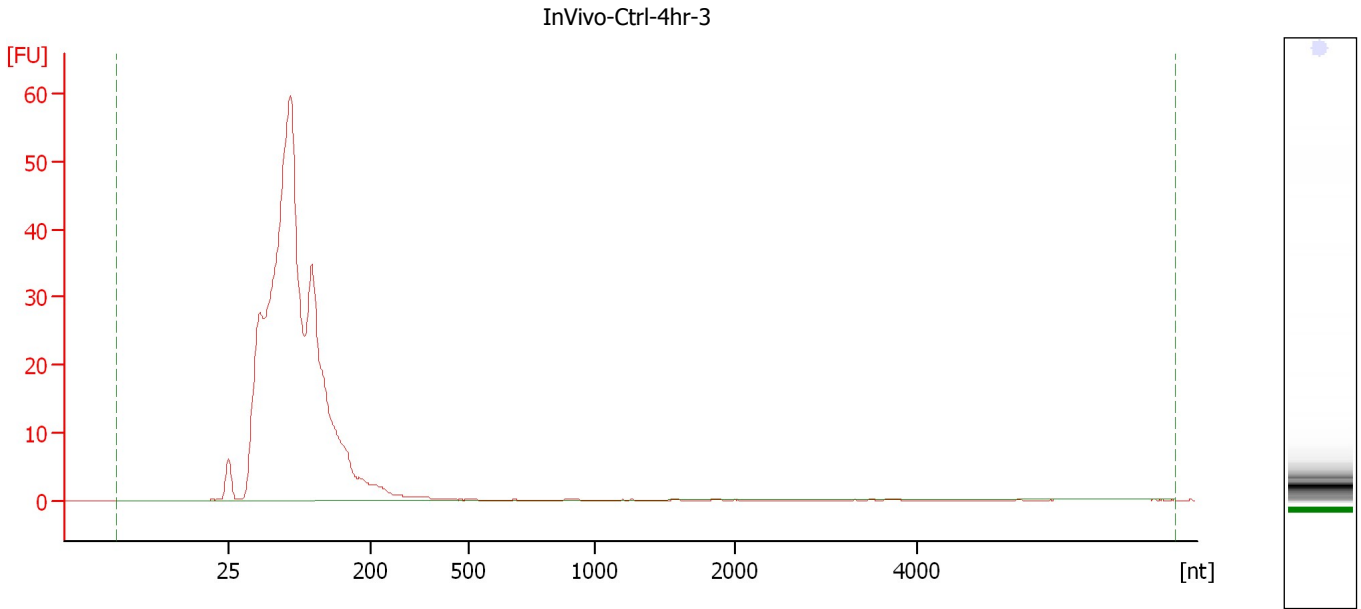
**Overall Results for sample 6 : InVivo-Ctrl-4hr-2**

RNA Area:	369.4	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	3,242 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: 2.60

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : InVivo-Ctrl-4hr-3**

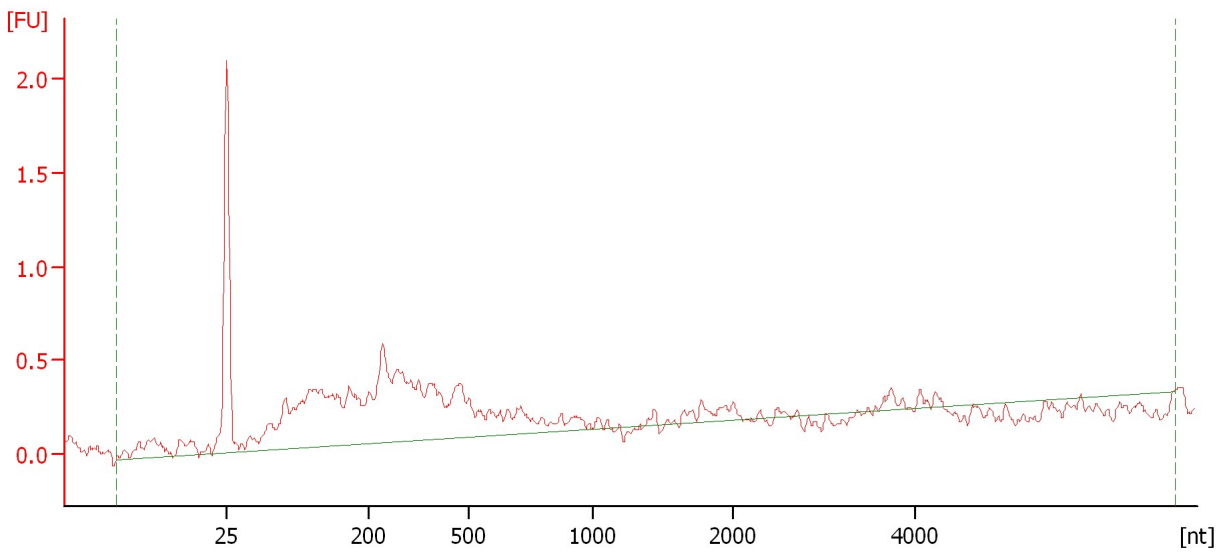
RNA Area:	480.3	RNA Integrity Number (RIN):	2.6 (B.02.08)
RNA Concentration:	4,216 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 2.60

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad


Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Electropherogram Summary Continued ...**

AP-ratCM-hypo-1(retest)



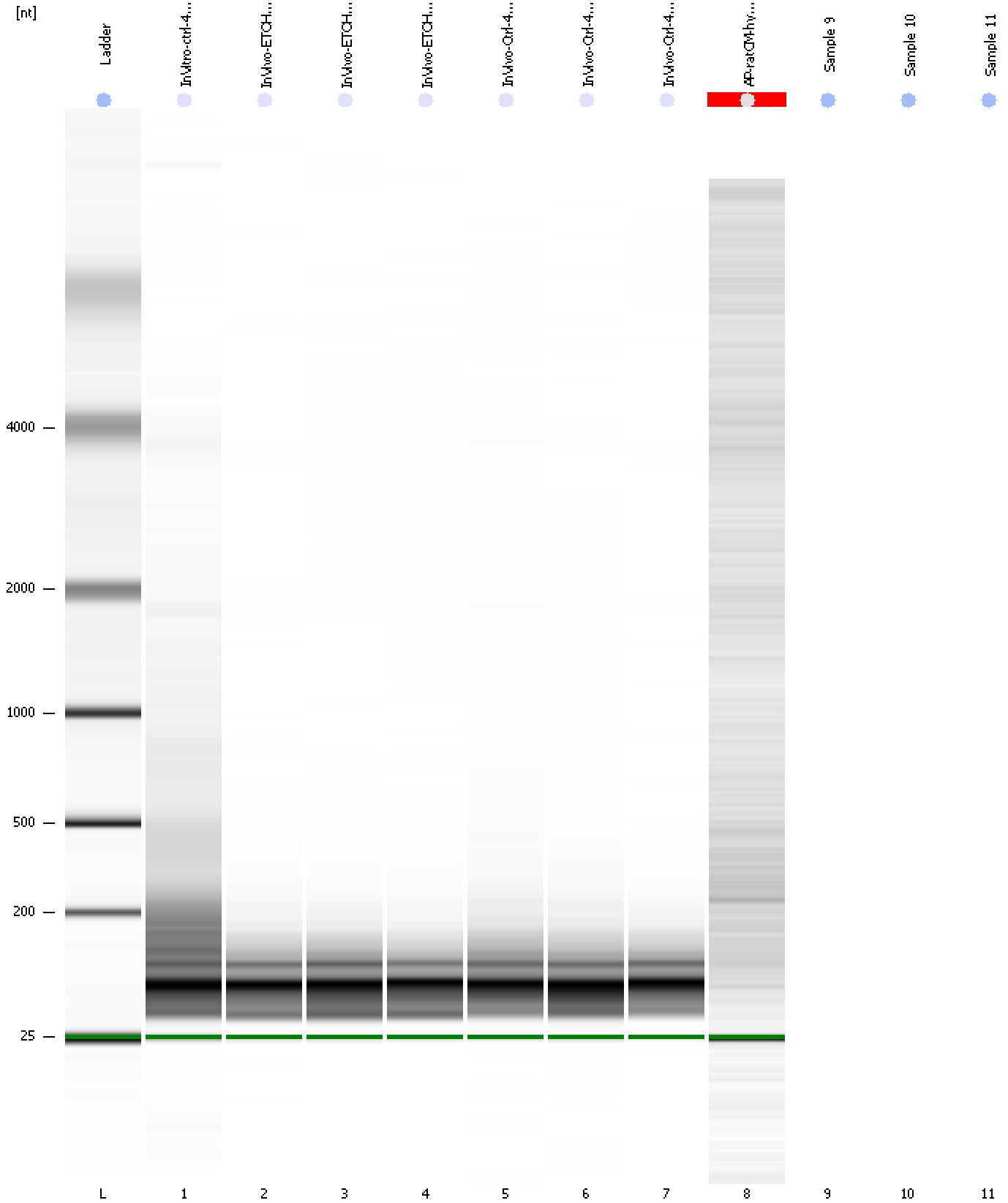
**Overall Results for sample 8 : AP-ratCM-hypo-1(retest)**

RNA Area:	11.2	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	98 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:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Gel Image**

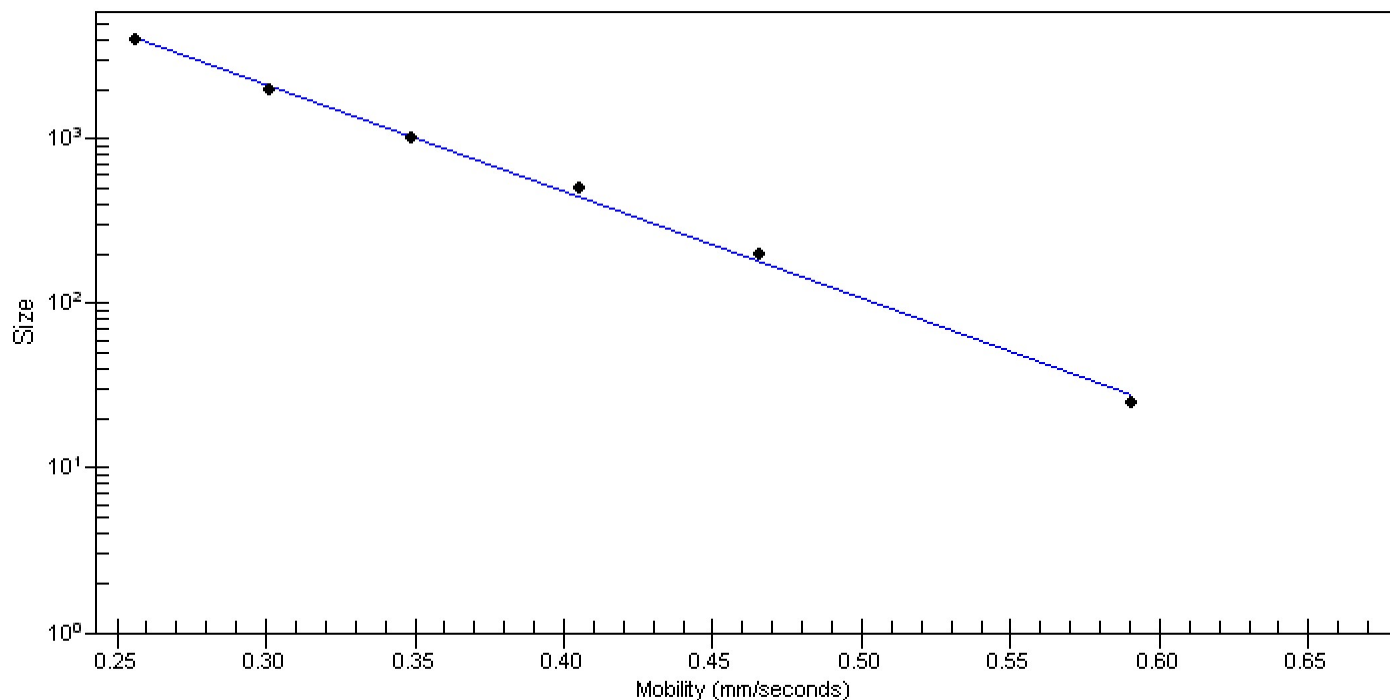


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Curves**

**Standard Curve**



Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
Modified: 3/31/2016 11:45:13 AM

**Invalid Samples**

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-03-31\2016-03-31\_002.xad

Created: 3/31/2016 11:07:07 AM  
 Modified: 3/31/2016 11:45:13 AM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 9)		Instrument	Run		3/31/2016 11:25:41 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\2016-03-31\2016-03-31_002.xad)		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/31/2016 11:07:13 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1