

Assay Class: Eukaryote Total RNA Pico
Data Path: C:\...expert\data\2016-03-29\2016-03-29_003_HiSeq453_TotalRNA.xad

Created: 3/29/2016 12:24:45 PM
Modified: 3/29/2016 12:56:32 PM

Electrophoresis File Run Summary

Instrument Information:

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

Assay Information:

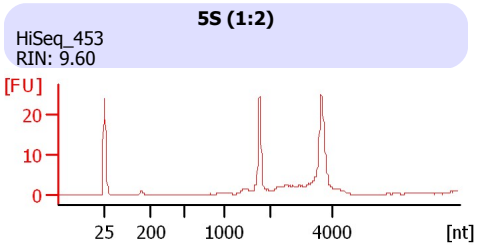
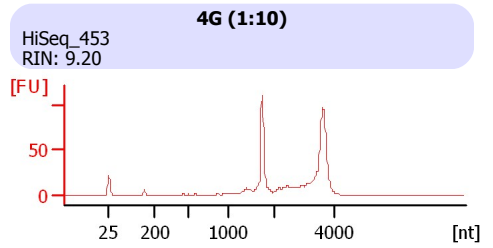
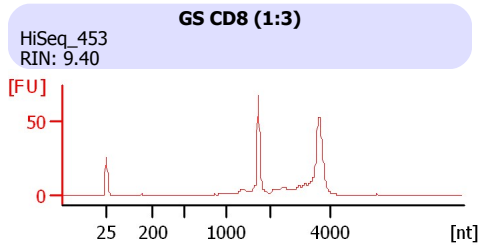
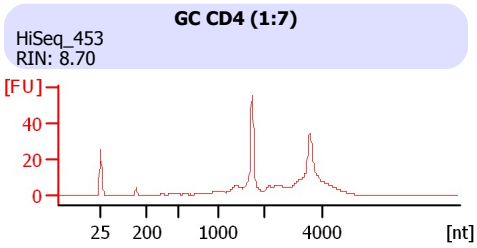
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100
expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
GC CD4 (1:7)	HiSeq_453	✓	RIN: 8.70	
GS CD8 (1:3)	HiSeq_453	✓	RIN: 9.40	
4G (1:10)	HiSeq_453	✓	RIN: 9.20	
5S (1:2)	HiSeq_453	✓	RIN: 9.60	
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/ 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

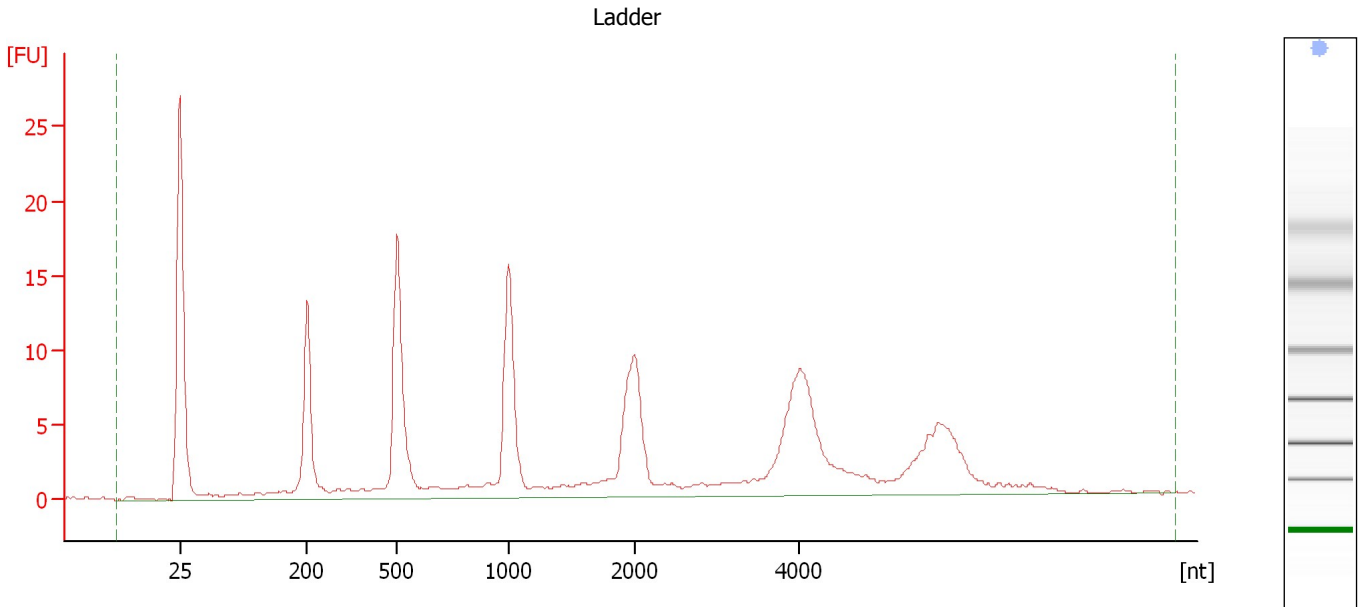
Ladder

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

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Electropherogram Summary



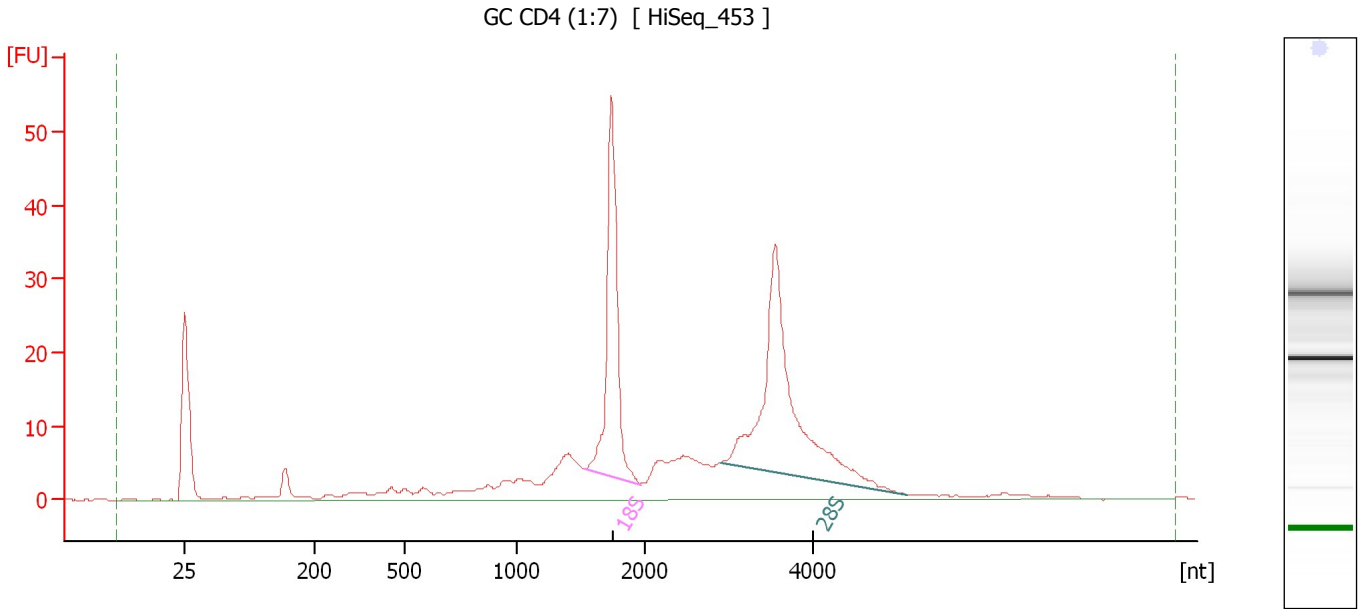
Overall Results for Ladder

RNA Area:	186.3	Result Flagging Color:	
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

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Electropherogram Summary Continued ...



Overall Results for sample 1 : GC CD4 (1:7)

RNA Area:	342.0	RNA Integrity Number (RIN):	8.7 (B.02.08)
RNA Concentration:	1,836 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.4	Result Flagging Label:	RIN: 8.70

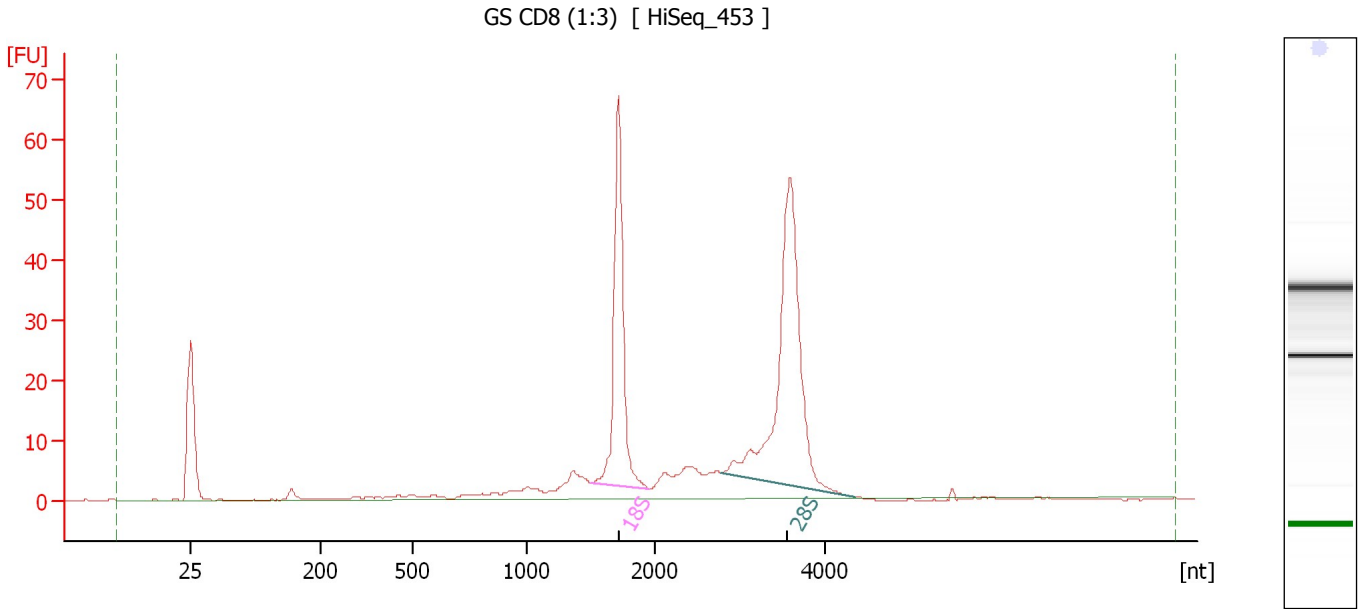
Fragment table for sample 1 : GC CD4 (1:7)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,532	1,968	65.6	19.2
28S	2,922	5,129	93.0	27.2

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Electropherogram Summary Continued ...



Overall Results for sample 2 : GS CD8 (1:3)

RNA Area:	297.2	RNA Integrity Number (RIN):	9.4 (B.02.08)
RNA Concentration:	1,595 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.6	Result Flagging Label:	RIN: 9.40

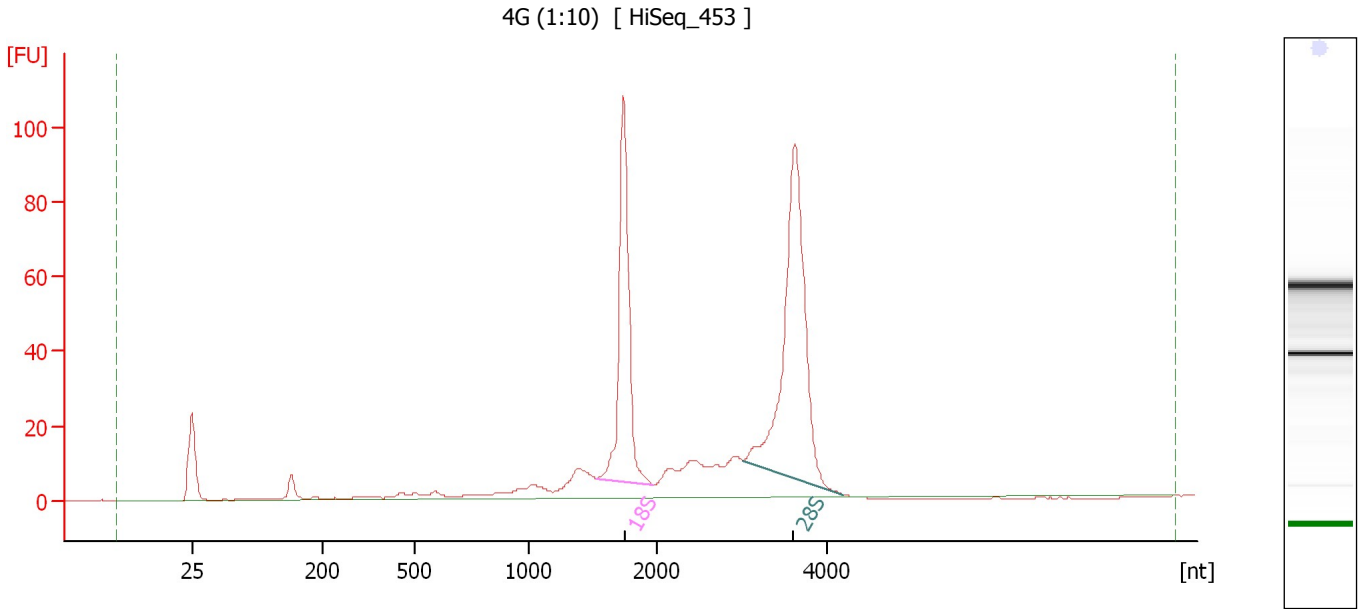
Fragment table for sample 2 : GS CD8 (1:3)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,507	1,954	72.7	24.5
28S	2,776	4,354	116.4	39.2

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Electropherogram Summary Continued ...



Overall Results for sample 3 : 4G (1:10)

RNA Area:	542.8	RNA Integrity Number (RIN):	9.2 (B.02.08)
RNA Concentration:	2,914 pg/μl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.5	Result Flagging Label:	RIN: 9.20

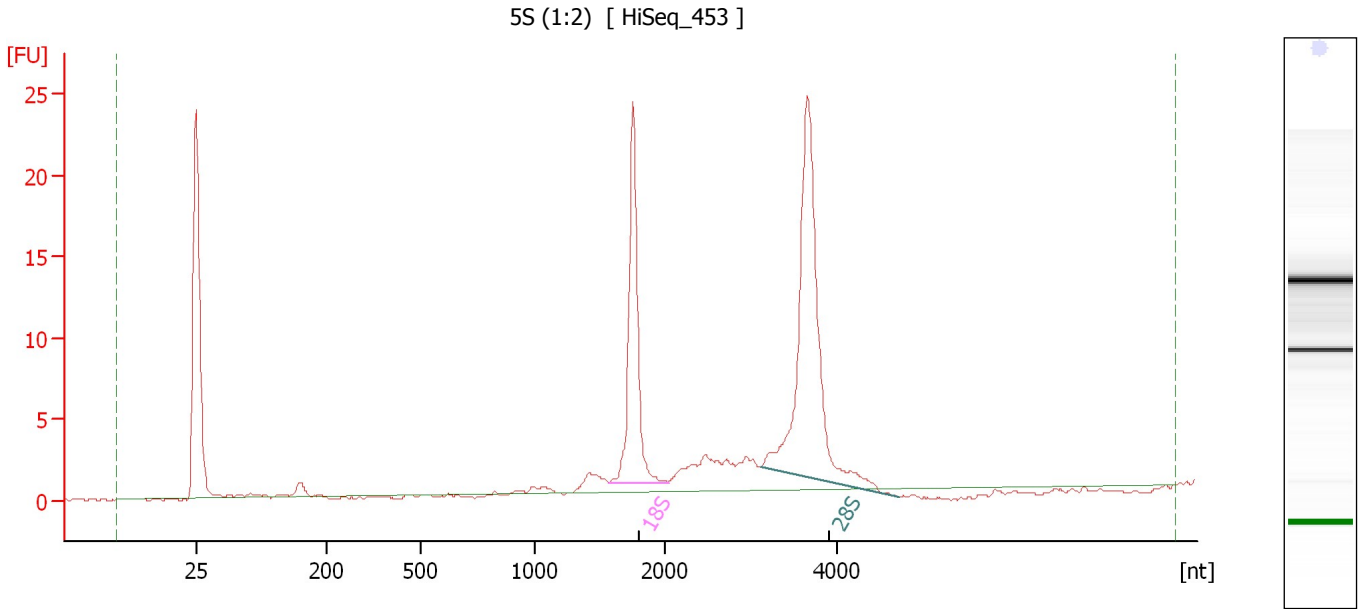
Fragment table for sample 3 : 4G (1:10)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,533	1,971	126.8	23.4
28S	3,014	4,198	196.2	36.1

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Electropherogram Summary Continued ...



Overall Results for sample 4 : 5S (1:2)

RNA Area:	105.3	RNA Integrity Number (RIN):	9.6 (B.02.08)
RNA Concentration:	565 µg/µl	Result Flagging Color:	
rRNA Ratio [28s / 18s]:	1.8	Result Flagging Label:	RIN: 9.60

Fragment table for sample 4 : 5S (1:2)

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,571	2,034	25.3	24.0
28S	3,108	4,731	46.5	44.2

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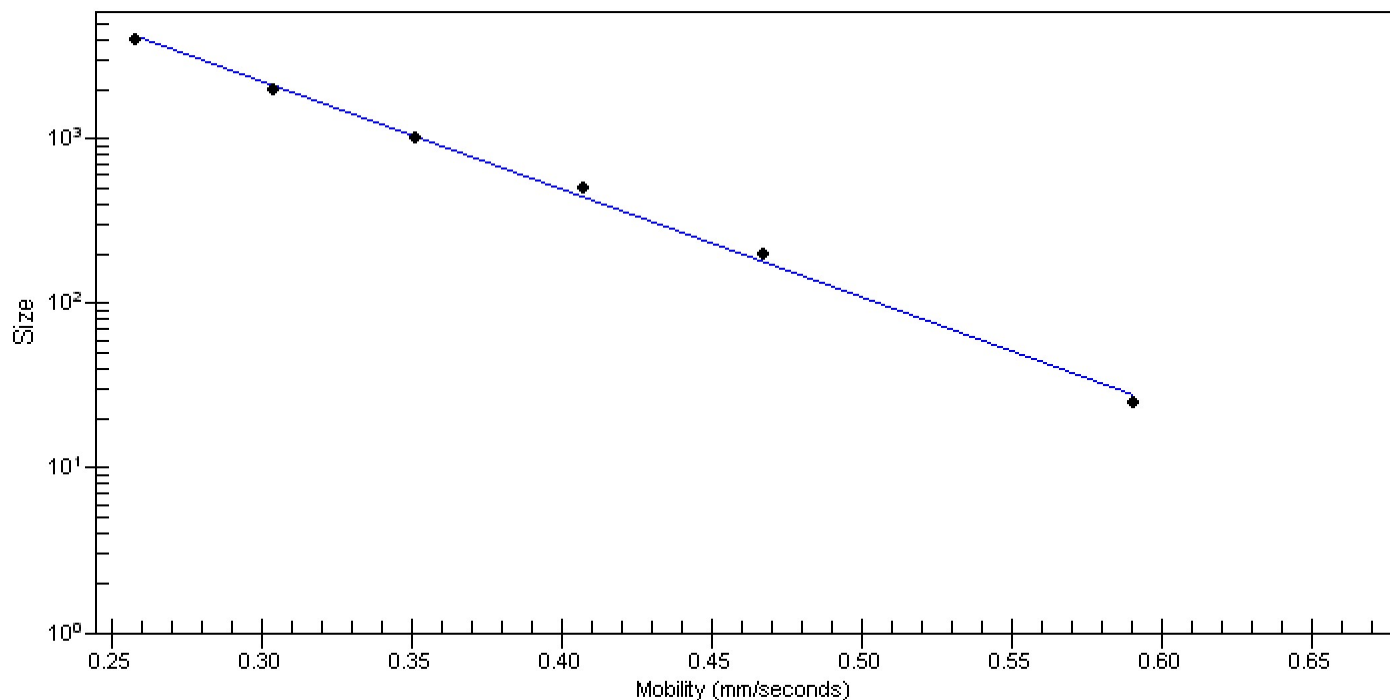
Gel Image

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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: 8)		Instrument	Run		3/29/2016 12:41:54 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2016-03-29\2016-03-29_003.xad)		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/29/2016 12:24:50 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1