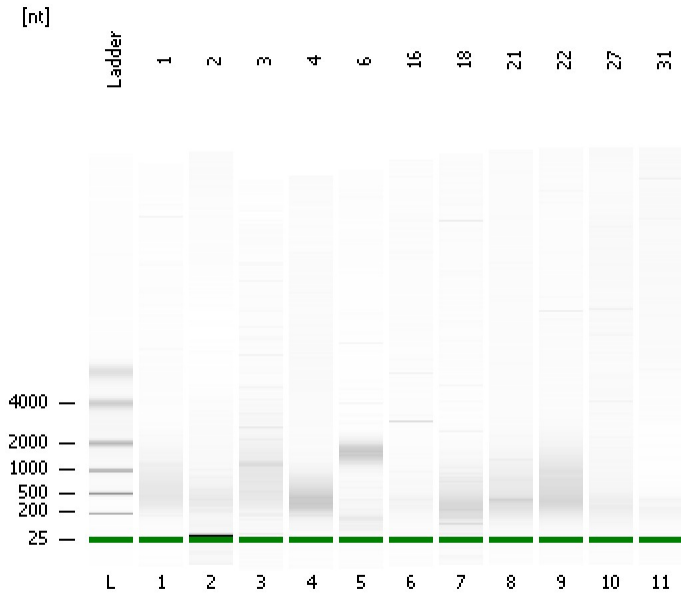


Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

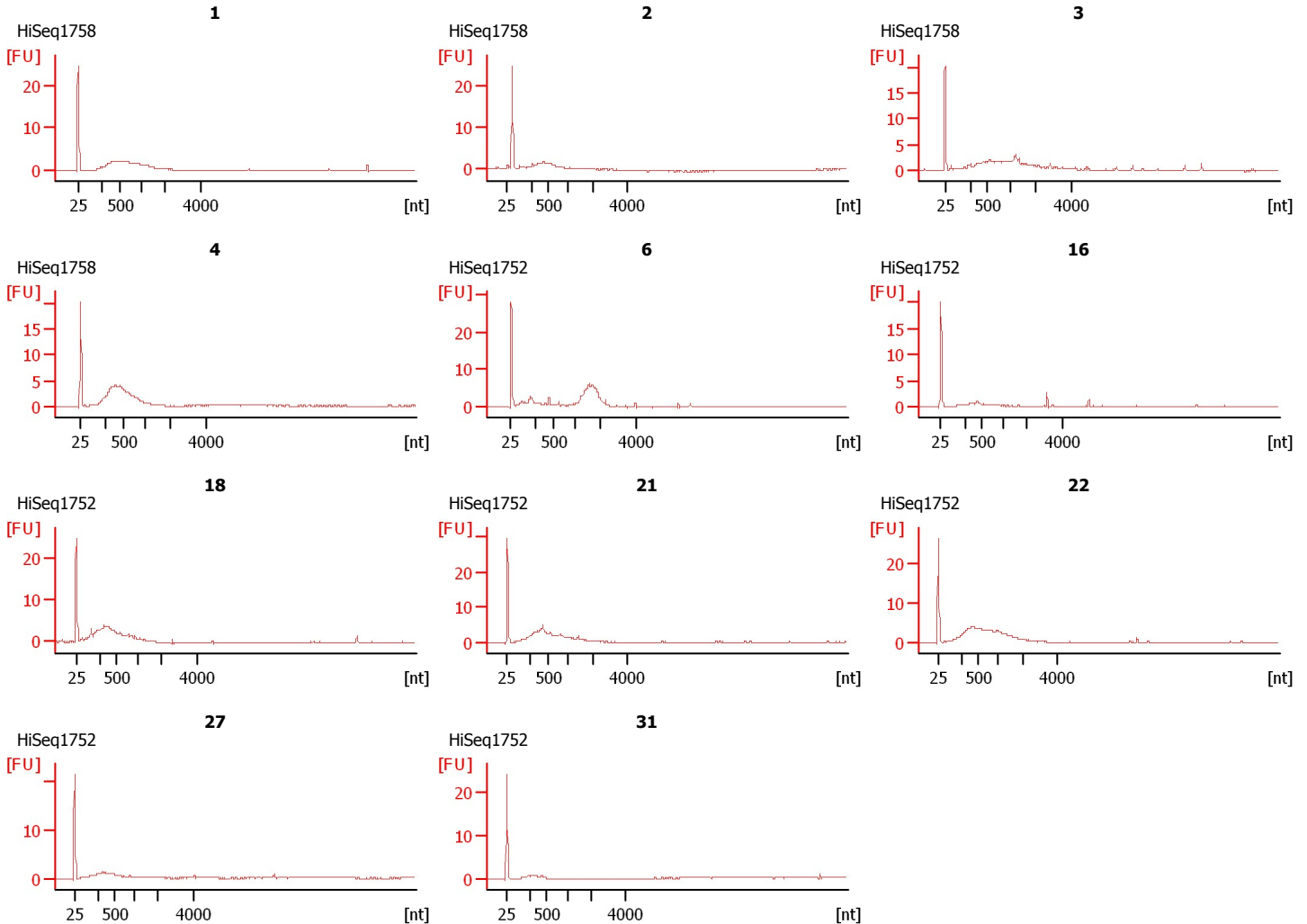
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Status	Result Label	Result Color
1	HiSeq1758	✓		
2	HiSeq1758	✓		
3	HiSeq1758	✓		
4	HiSeq1758	✓		
6	HiSeq1752	✓		
16	HiSeq1752	✓		
18	HiSeq1752	✓		
21	HiSeq1752	✓		
22	HiSeq1752	✓		
27	HiSeq1752	✓		
31	HiSeq1752	✓		
Ladder		✓		

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 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

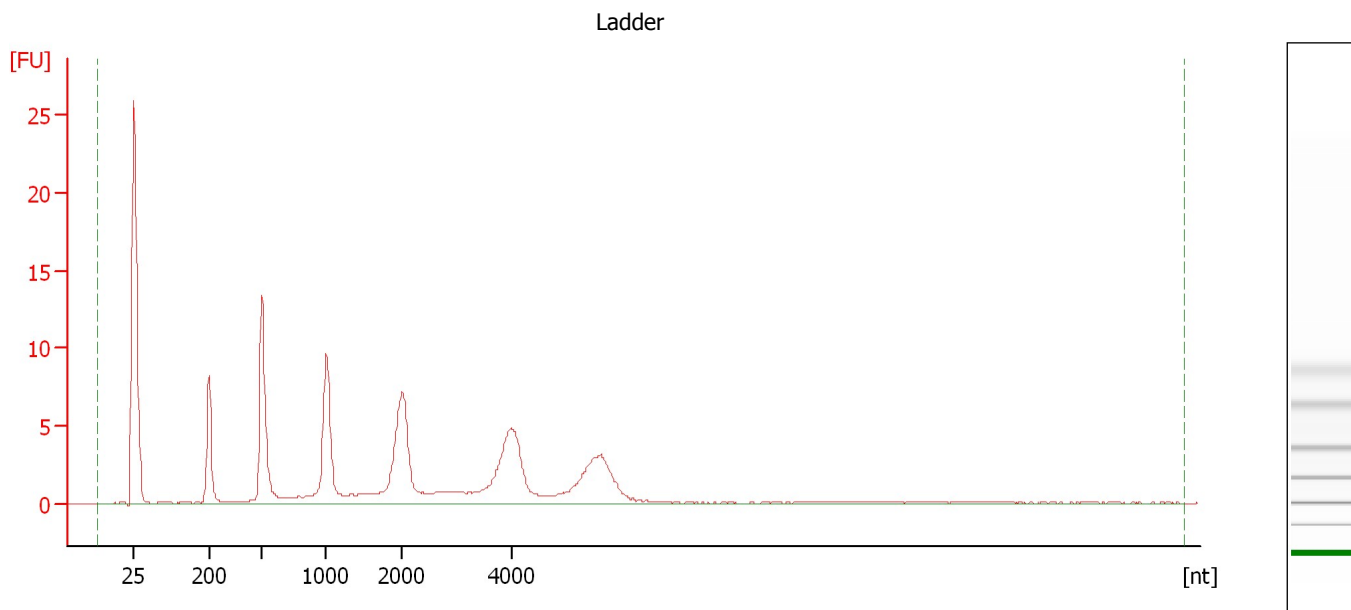
Ladder

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

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary



Overall Results for Ladder

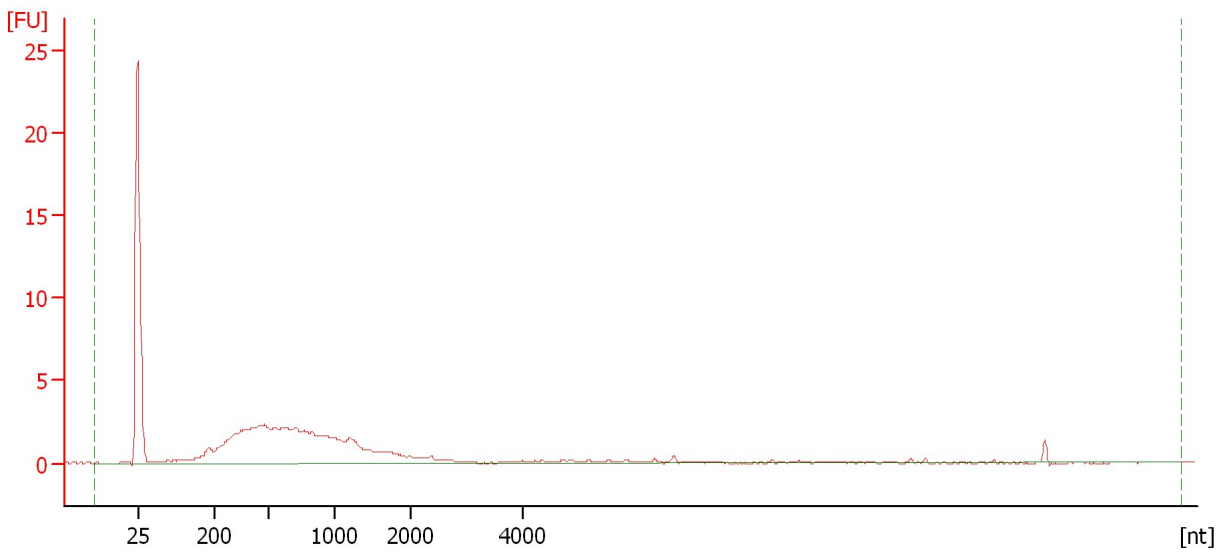
RNA Area: 130.5 RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

1 [HiSeq1758]



Overall Results for sample 1 : 1

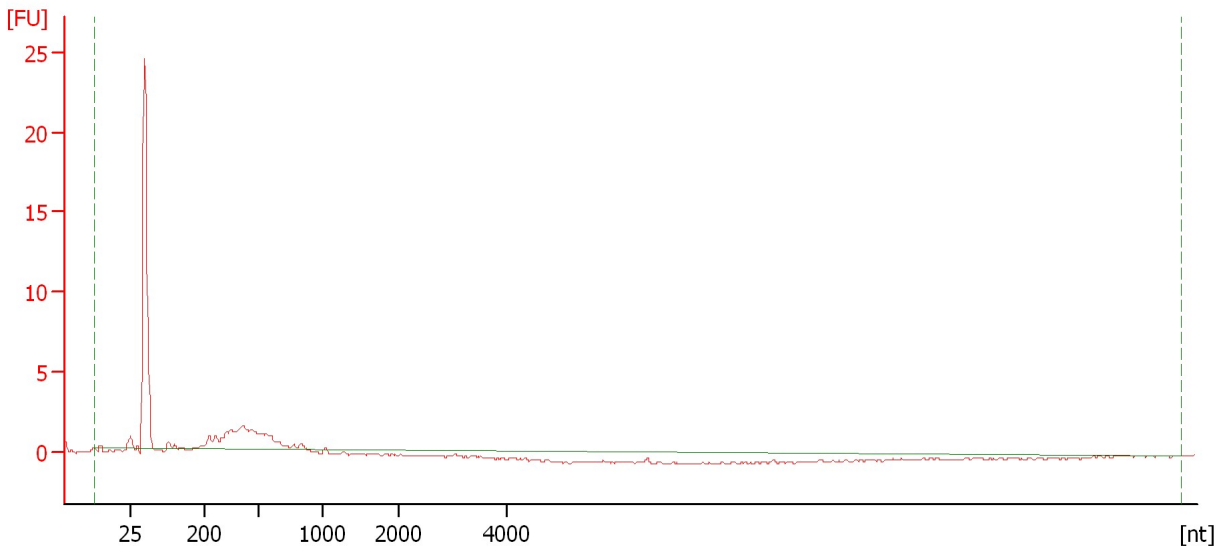
RNA Area:	77.3	rRNA Contamination:	0.0 %
RNA Concentration:	592 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

2 [HiSeq1758]



Overall Results for sample 2 : 2

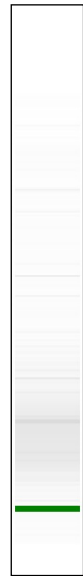
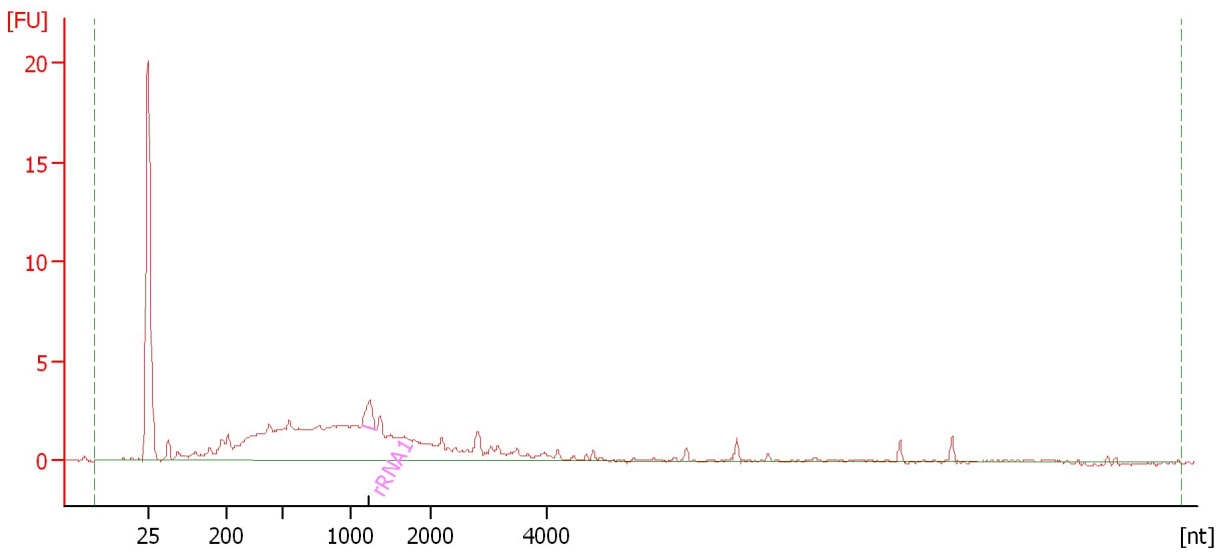
RNA Area:	57.0	rRNA Contamination:	0.0 %
RNA Concentration:	436 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

3 [HiSeq1758]



Overall Results for sample 3 : 3

RNA Area: 88.2 rRNA Contamination: 2.3 %
RNA Concentration: 676 pg/μl

Fragment table for sample 3 : 3

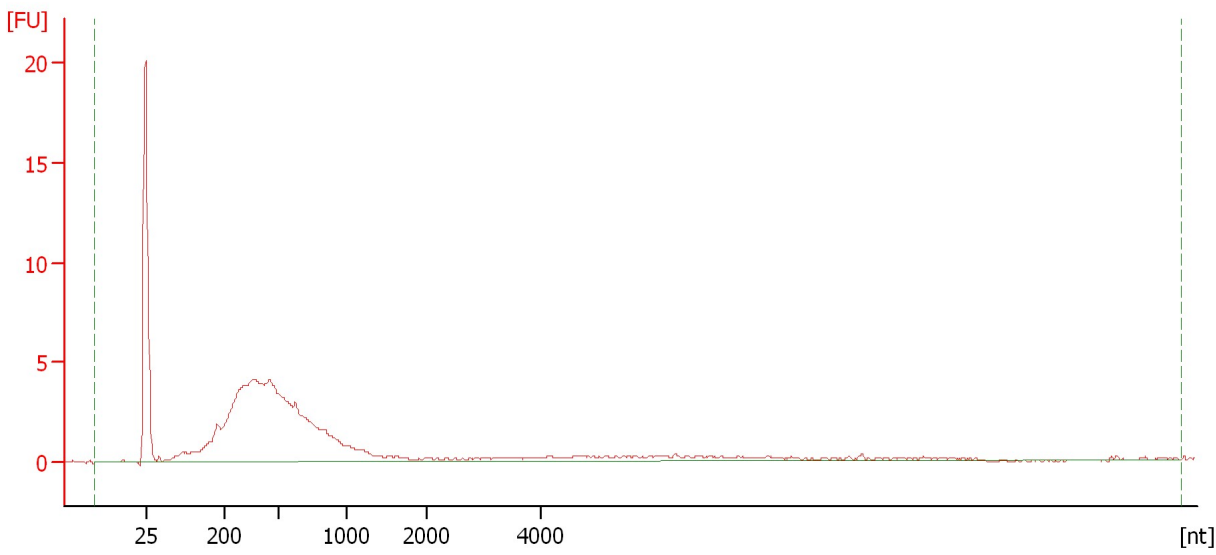
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	1,130	1,319	2.0	2.3

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

4 [HiSeq1758]



Overall Results for sample 4 : 4

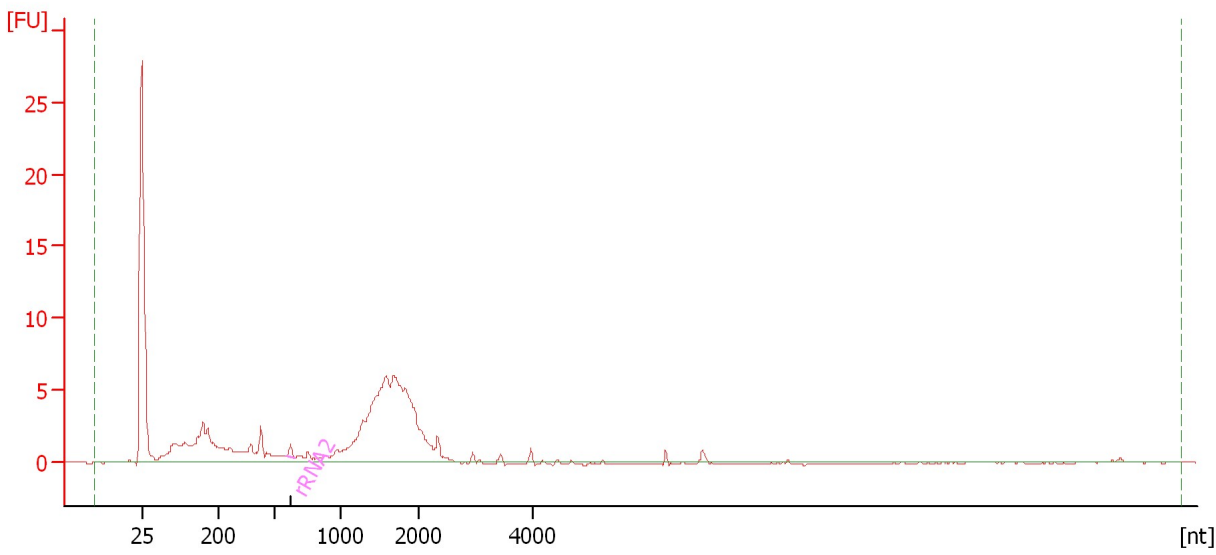
RNA Area:	104.0	rRNA Contamination:	0.0 %
RNA Concentration:	797 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

6 [HiSeq1752]



Overall Results for sample 5 : 6

RNA Area: 102.9 rRNA Contamination: 0.7 %
RNA Concentration: 788 pg/μl

Fragment table for sample 5 : 6

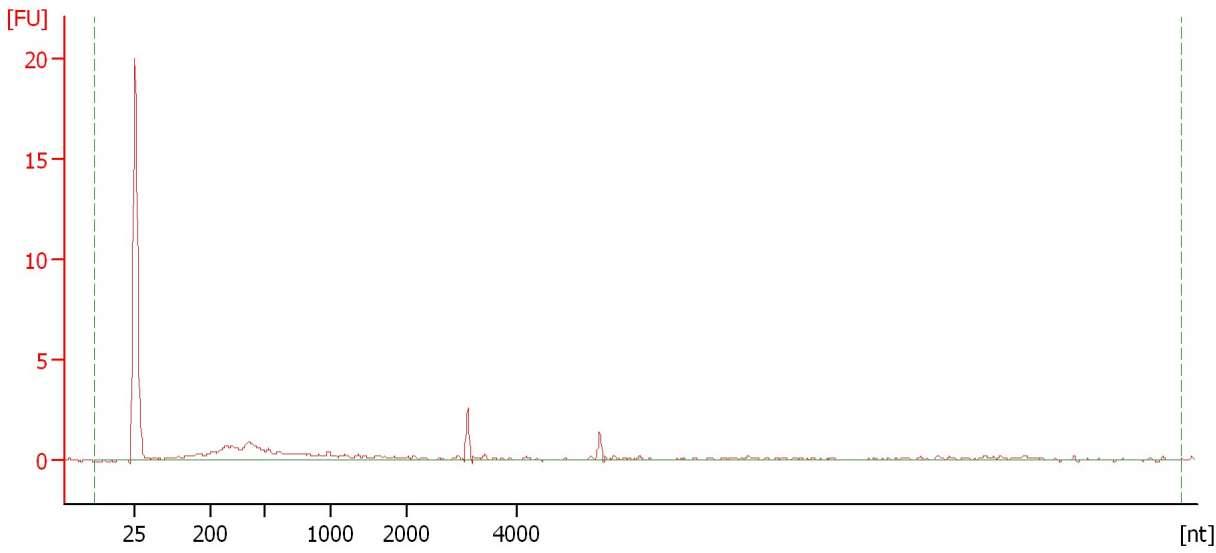
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	591	650	0.7	0.7

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

16 [HiSeq1752]



Overall Results for sample 6 : 16

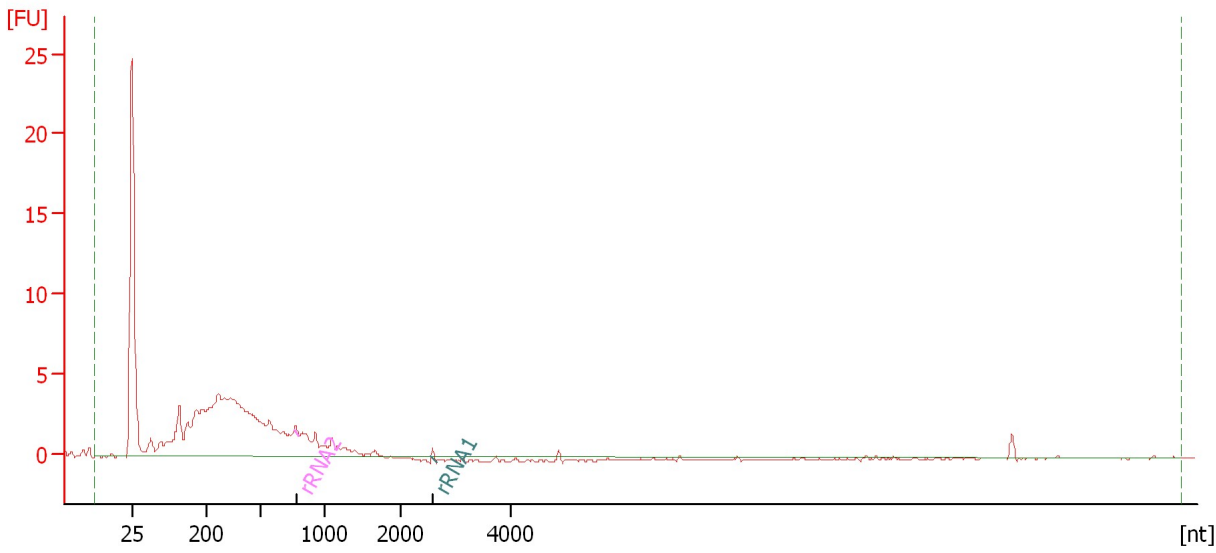
RNA Area:	26.4	rRNA Contamination:	0.0 %
RNA Concentration:	202 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

18 [HiSeq1752]



Overall Results for sample 7 : 18

RNA Area: 98.1 rRNA Contamination: 0.6 %
RNA Concentration: 751 pg/μl

Fragment table for sample 7 : 18

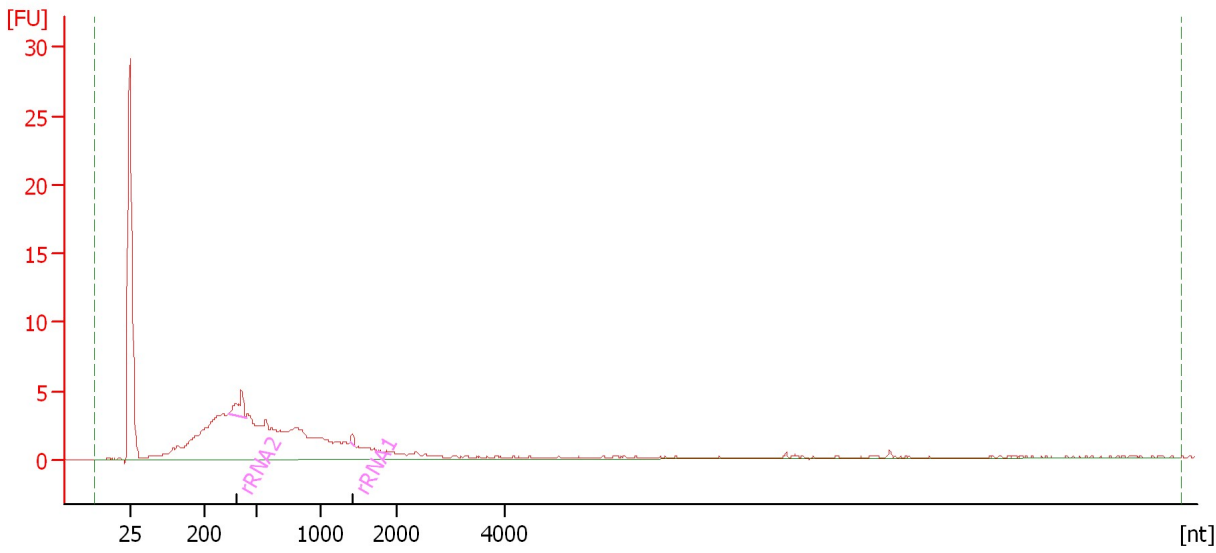
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	762	805	0.3	0.3
rRNA1	2,554	2,641	0.3	0.3

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

21 [HiSeq1752]



Overall Results for sample 8 : 21

RNA Area: 110.3 rRNA Contamination: 3.3 %
RNA Concentration: 845 pg/μl

Fragment table for sample 8 : 21

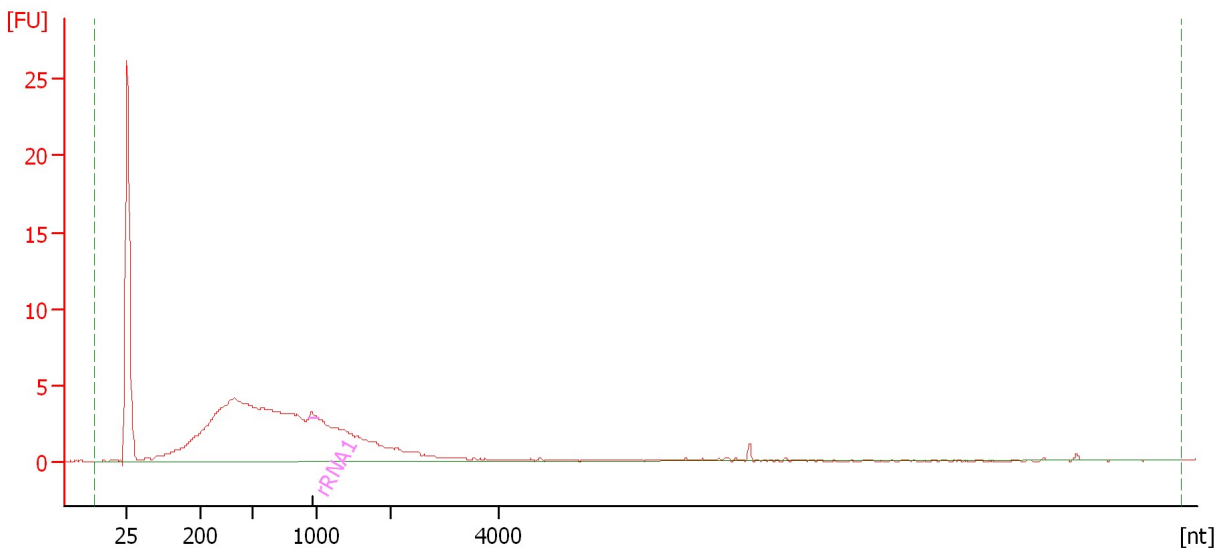
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	344	440	3.2	2.9
rRNA1	1,384	1,458	0.4	0.4

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

22 [HiSeq1752]



Overall Results for sample 9 : 22

RNA Area: 140.1 rRNA Contamination: 0.3 %
RNA Concentration: 1,073 pg/μl

Fragment table for sample 9 : 22

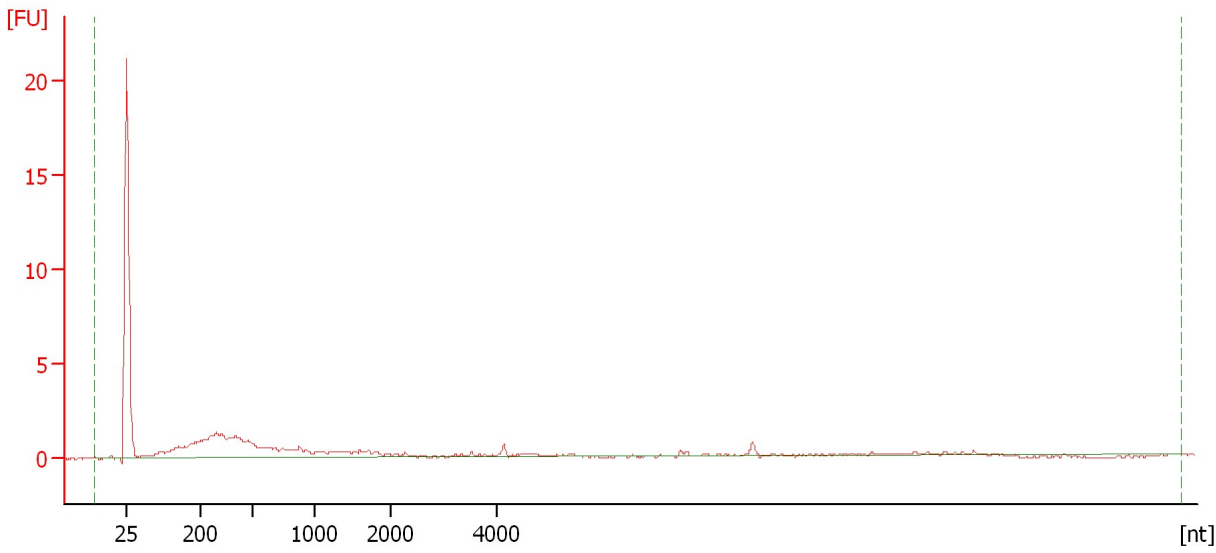
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA1	939	1,024	0.4	0.3

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

27 [HiSeq1752]



Overall Results for sample 10 : 27

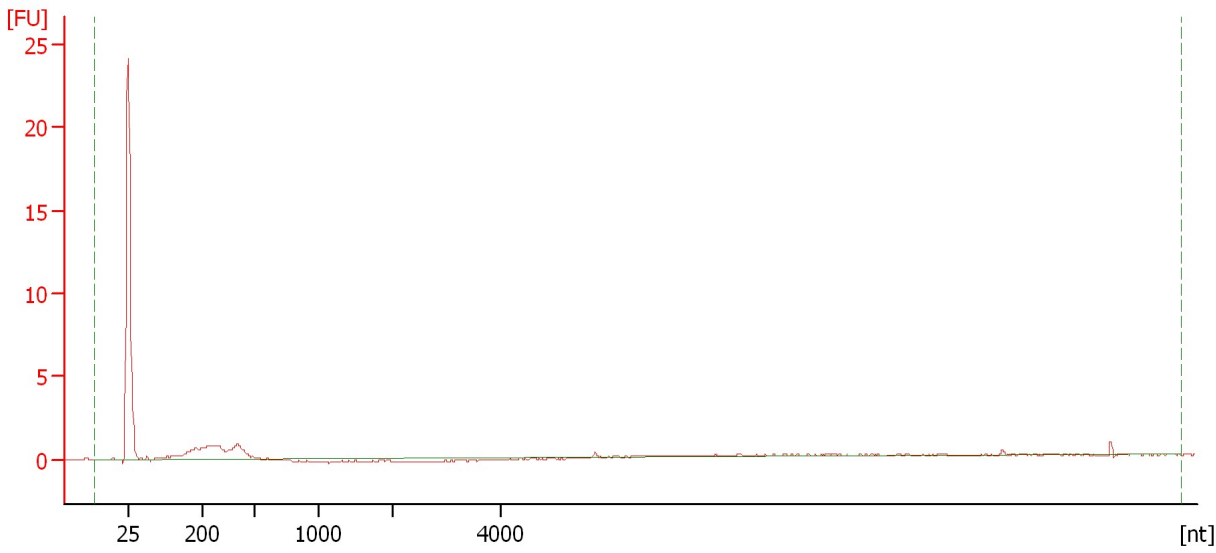
RNA Area:	31.0	rRNA Contamination:	0.0 %
RNA Concentration:	237 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Electropherogram Summary Continued ...

31 [HiSeq1752]



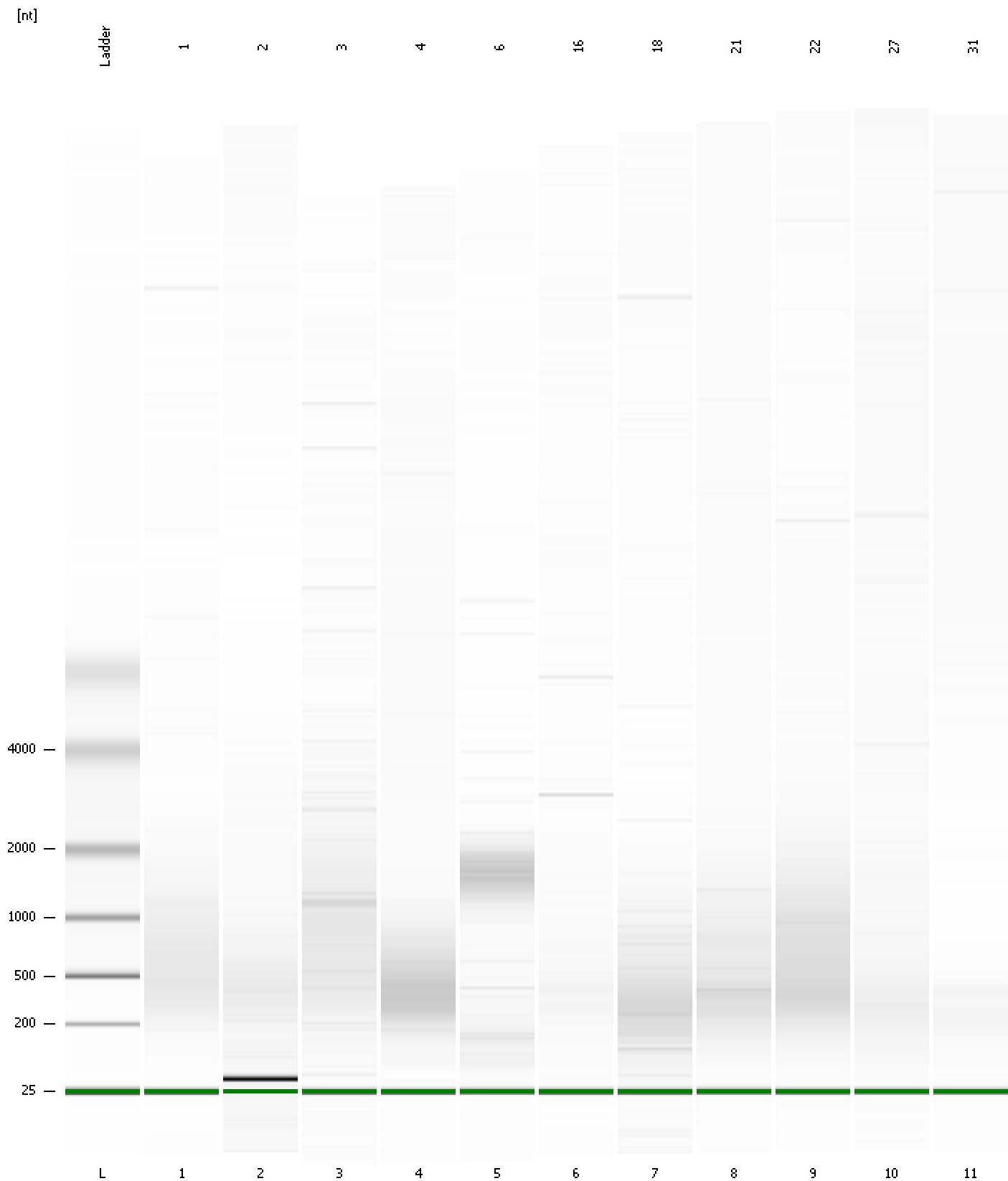
Overall Results for sample 11 : 31

RNA Area:	16.7	rRNA Contamination:	0.0 %
RNA Concentration:	128 pg/μl		

Assay Class: mRNA Pico
Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
Modified: 4/15/2019 2:14:23 PM

Gel Image



Assay Class: mRNA Pico
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-04-15\2019-04-15_002.xad

Created: 4/15/2019 1:44:03 PM
 Modified: 4/15/2019 2:14:23 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		4/15/2019 2:09:56 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\2019-04-15\2019-04-15_002.xad)		Instrument	Run		4/15/2019 1:44:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		4/15/2019 1:44:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		4/15/2019 1:44:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		4/15/2019 1:44:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		4/15/2019 1:44:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		4/15/2019 1:44:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		4/15/2019 1:44:08 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1