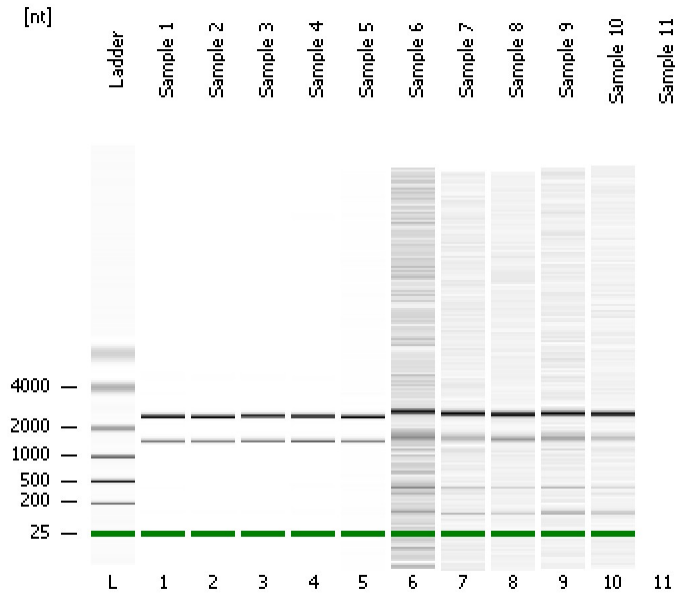


Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electrophoresis File Run Summary**



Instrument Information:

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

Assay Information:

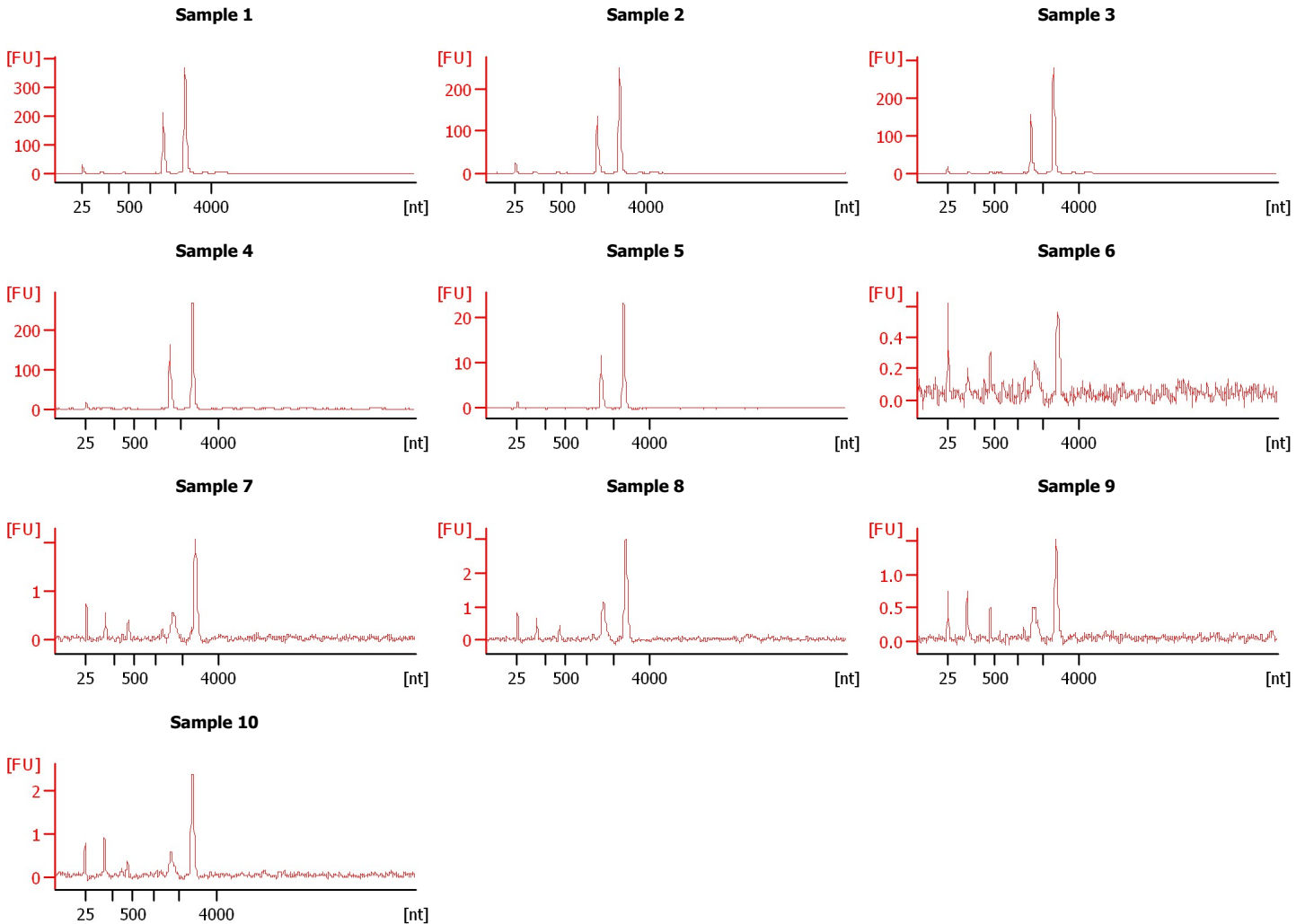
Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\mRNA Pico Series II.xsy

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:



Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓		
Sample 2		✓		
Sample 3		✓		
Sample 4		✓		
Sample 5		✓		
Sample 6		✓		
Sample 7		✓		
Sample 8		✓		
Sample 9		✓		
Sample 10		✓		
Sample 11		✓		
Ladder		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 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/ $\mu$ 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

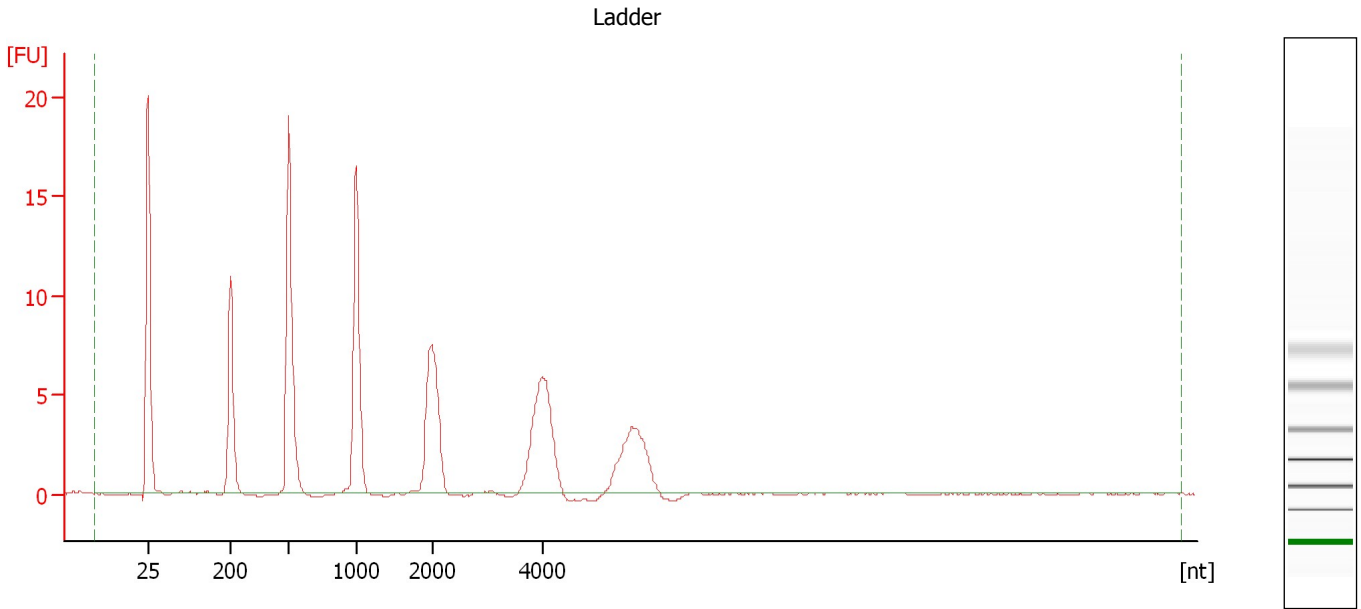
**Ladder**

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

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary**



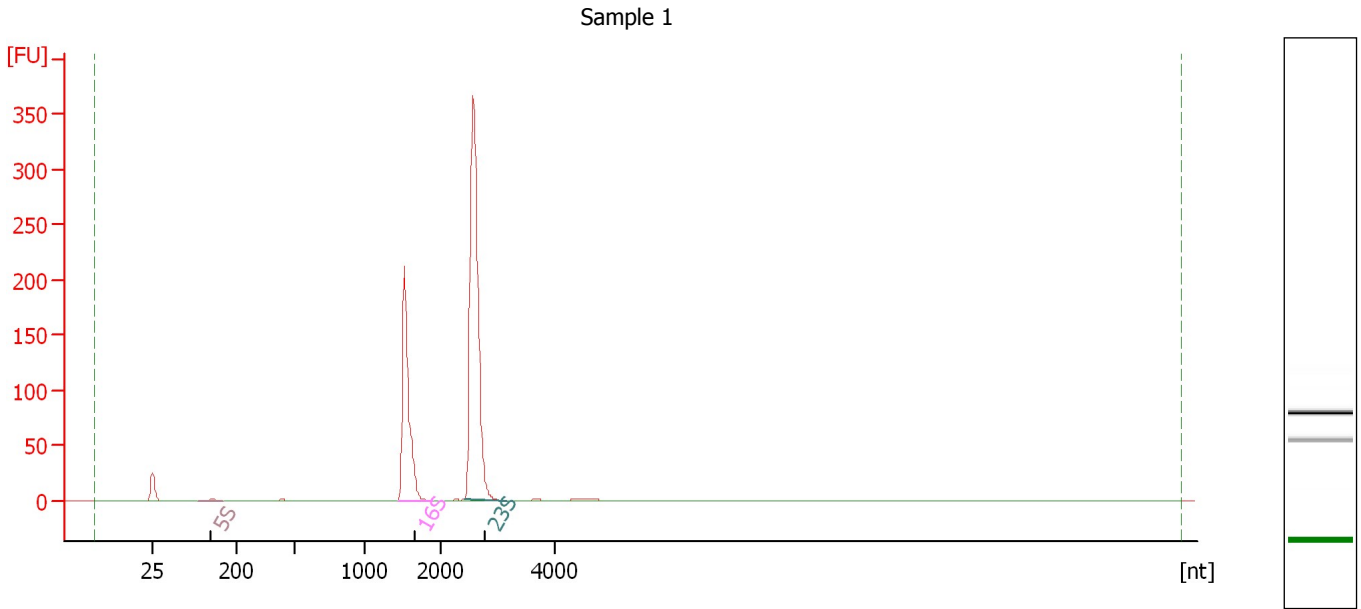
**Overall Results for Ladder**

RNA Area: 116.9                      RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Sample 1**

RNA Area: 834.3                      rRNA Contamination: 98.1 %  
RNA Concentration: 7,134 pg/μl

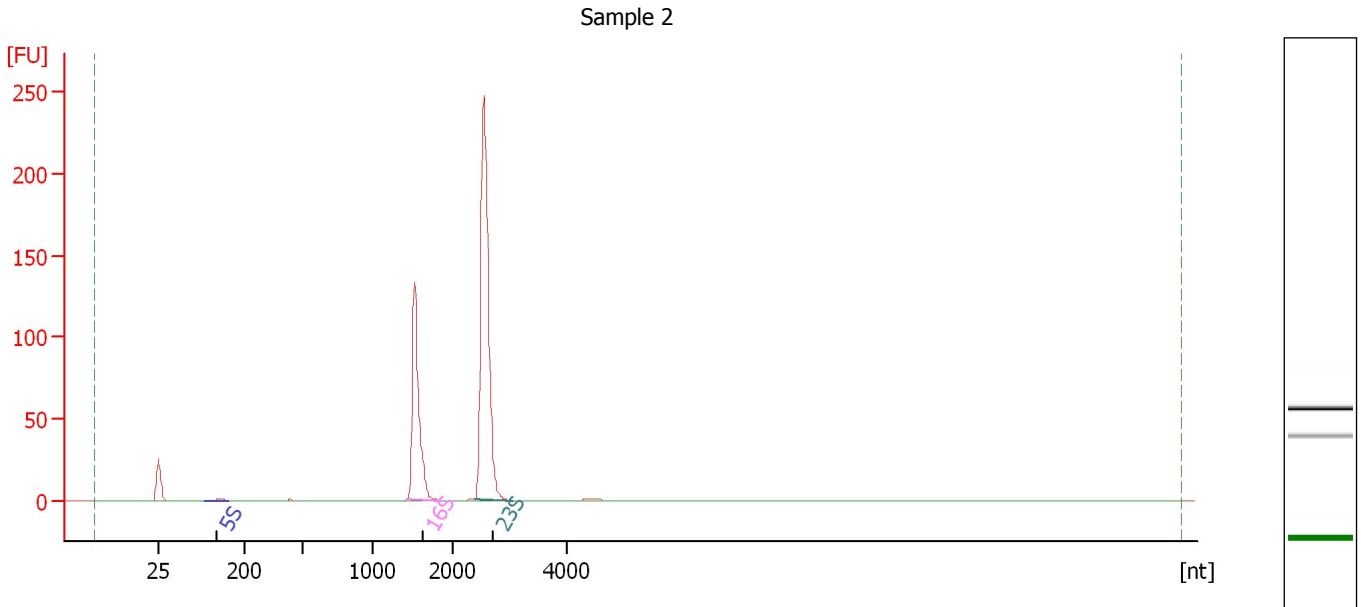
**Fragment table for sample 1 : Sample 1**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	120	170	1.9	0.2
16S	1,443	1,890	283.7	34.0
23S	2,402	3,182	535.1	64.1

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Sample 2**

RNA Area: 519.1                      rRNA Contamination: 98.0 %  
RNA Concentration: 4,439 pg/μl

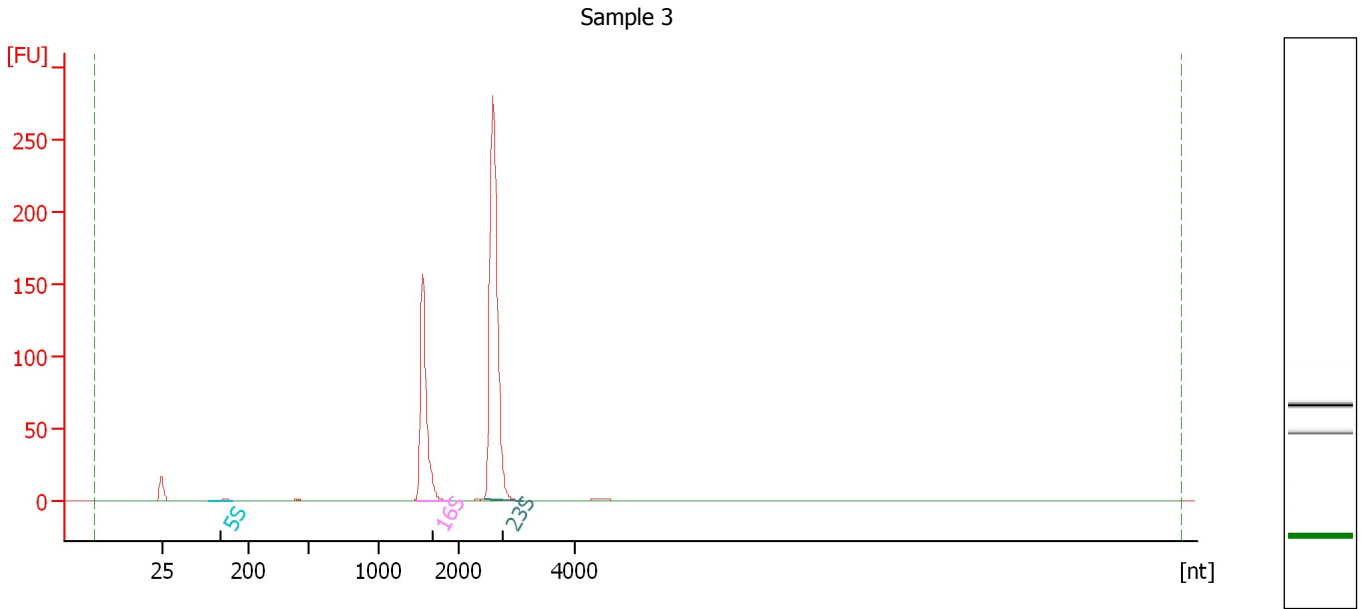
**Fragment table for sample 2 : Sample 2**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	120	170	1.5	0.3
16S	1,429	1,867	172.5	33.2
23S	2,402	3,058	336.3	64.8

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Sample 3**

RNA Area: 577.2                      rRNA Contamination: 98.1 %  
RNA Concentration: 4,936 pg/μl

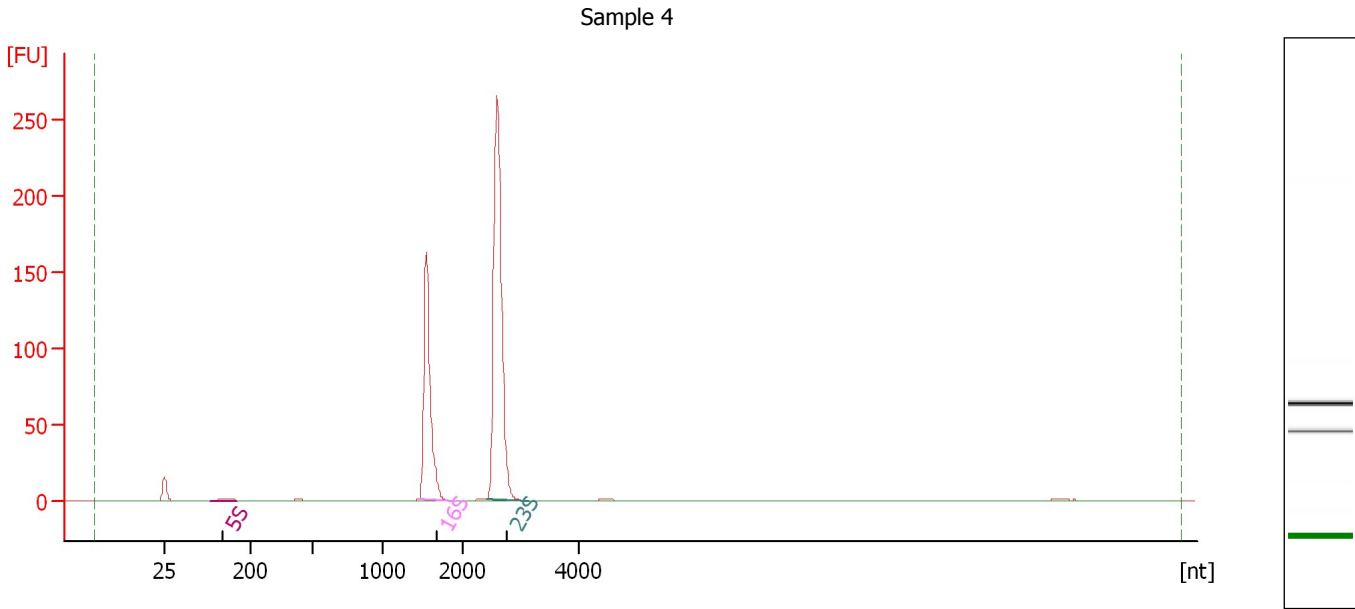
**Fragment table for sample 3 : Sample 3**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	120	170	1.2	0.2
16S	1,467	1,881	188.6	32.7
23S	2,445	3,134	377.5	65.4

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : Sample 4**

RNA Area: 595.1                      rRNA Contamination: 96.9 %  
RNA Concentration: 5,089 pg/μl

**Fragment table for sample 4 : Sample 4**

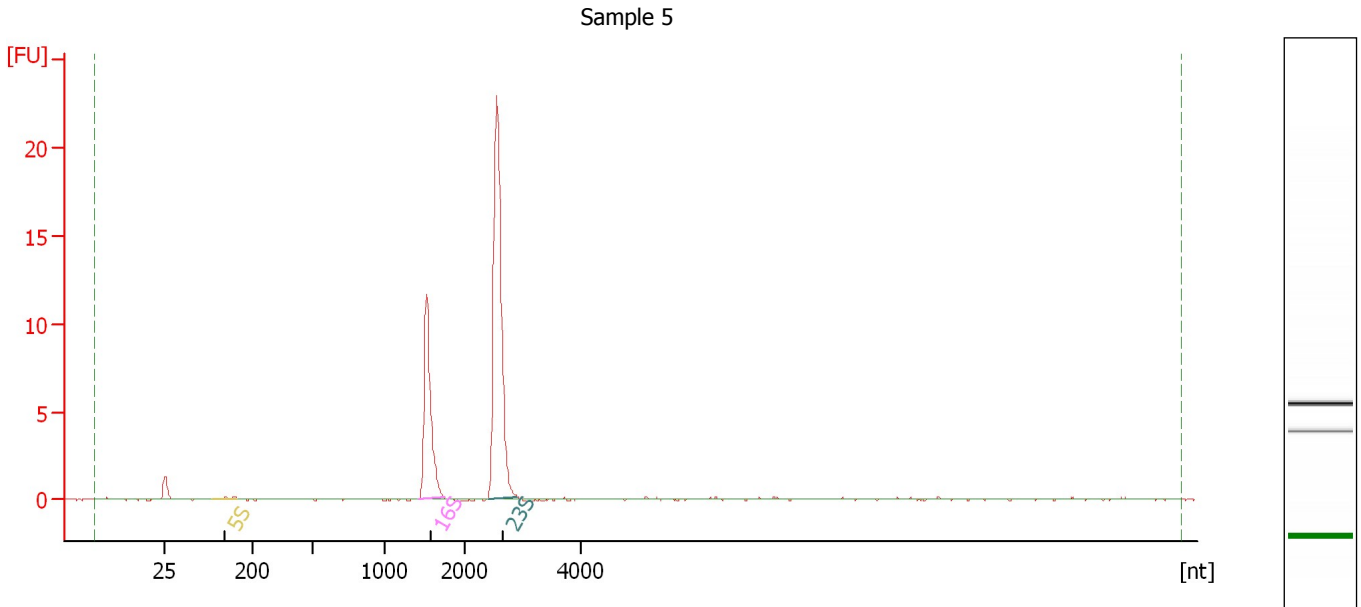
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	120	170	2.4	0.4
16S	1,444	1,895	204.2	34.3
23S	2,416	3,141	372.4	62.6



Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : Sample 5**

RNA Area: 47.6                      rRNA Contamination: 96.1 %  
RNA Concentration: 407 pg/μl

**Fragment table for sample 5 : Sample 5**

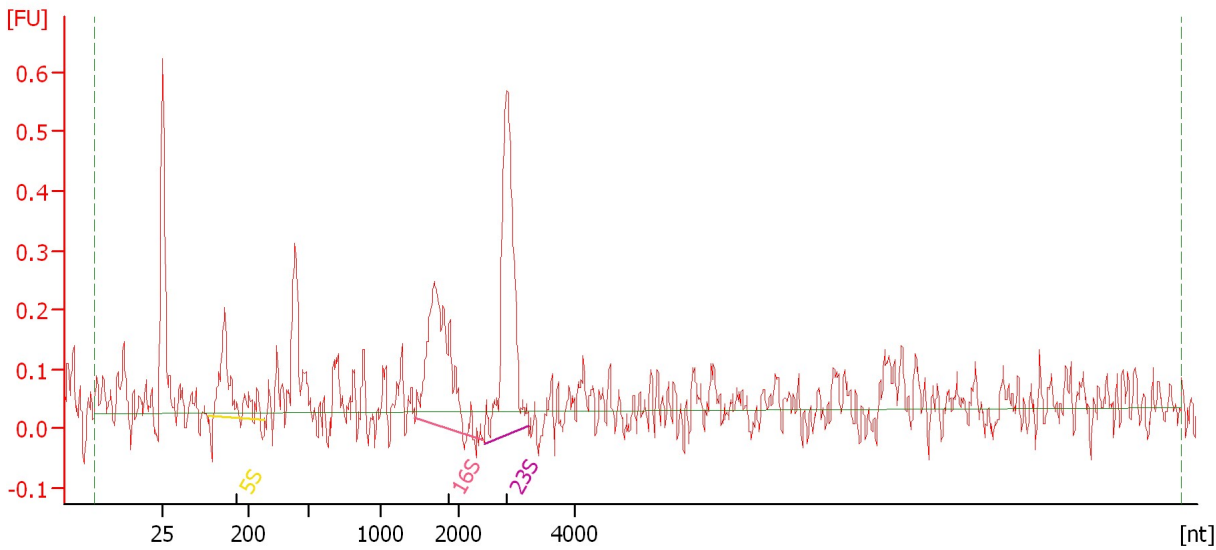
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	120	170	0.2	0.4
16S	1,437	1,746	14.9	31.3
23S	2,417	2,895	30.9	64.8

Assay Class: mRNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
 Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**

Sample 6



**Overall Results for sample 6 : Sample 6**

RNA Area: 5.3                                      rRNA Contamination: 0.0 %  
 RNA Concentration: 46 pg/μl

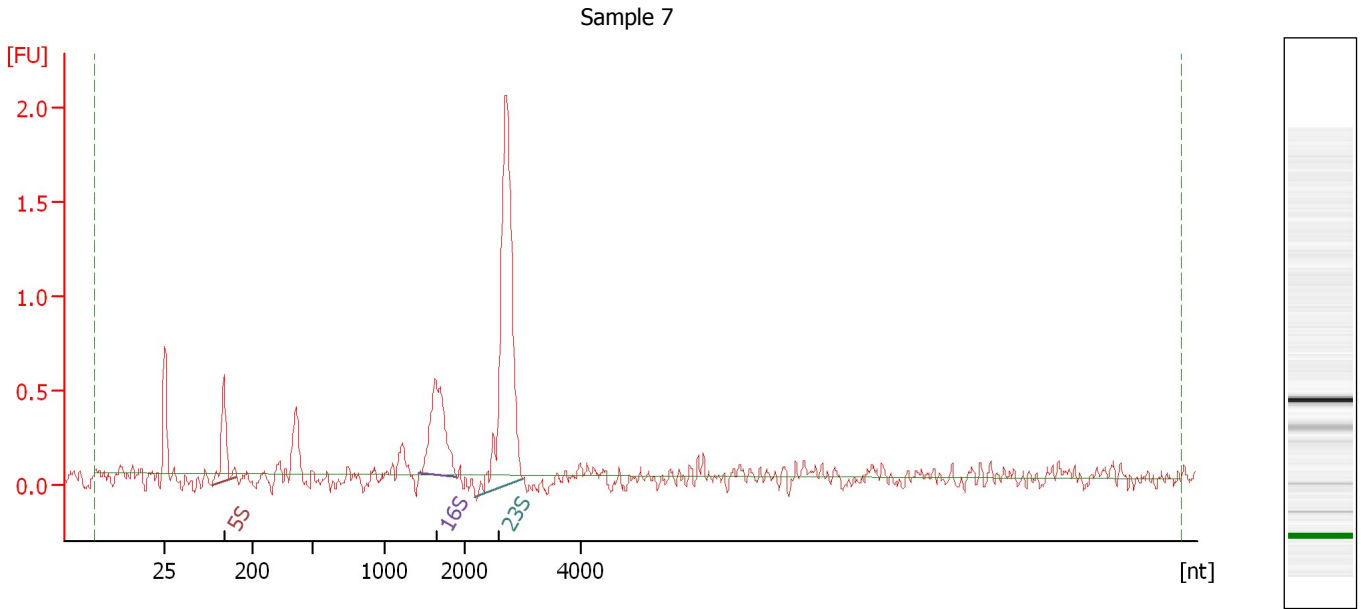
**Fragment table for sample 6 : Sample 6**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	120	279	0.5	9.4
16S	1,437	2,389	1.1	19.9
23S	2,416	3,195	1.3	24.1

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : Sample 7**

RNA Area: 8.1                      rRNA Contamination: 50.9 %  
RNA Concentration: 69 pg/μl

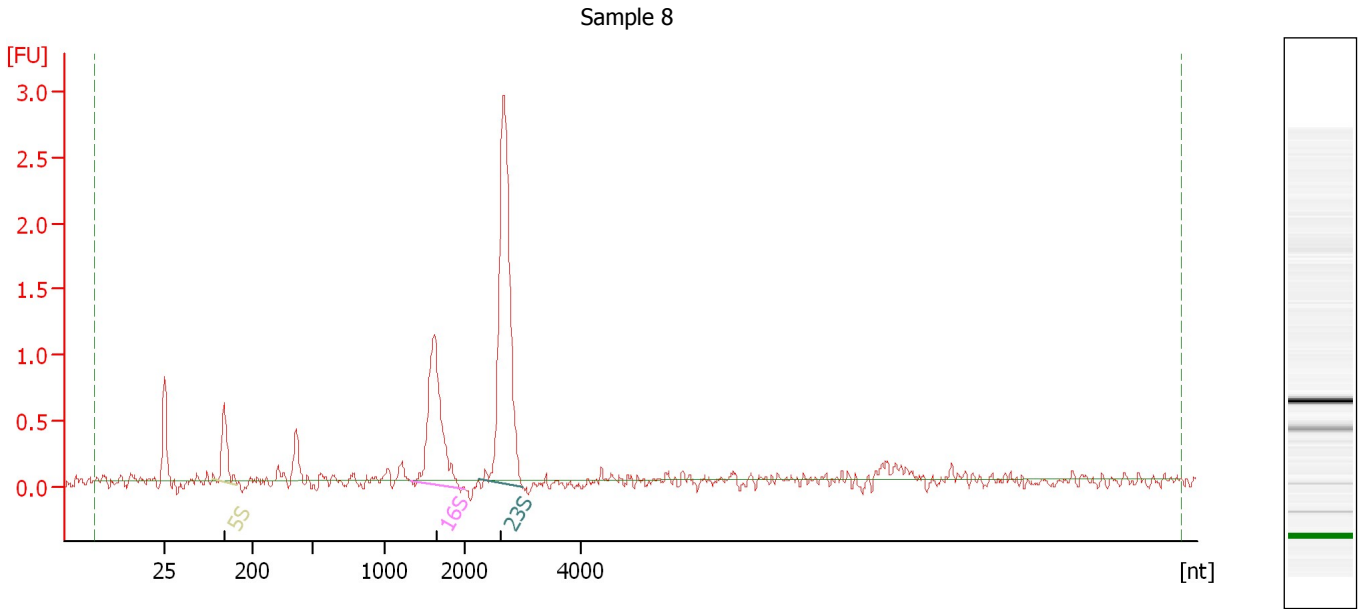
**Fragment table for sample 7 : Sample 7**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	120	170	0.9	10.7
16S	1,437	1,903	1.5	18.0
23S	2,196	2,991	4.1	50.9

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : Sample 8**

RNA Area: 11.3                      rRNA Contamination: 73.8 %  
RNA Concentration: 96 pg/μl

**Fragment table for sample 8 : Sample 8**

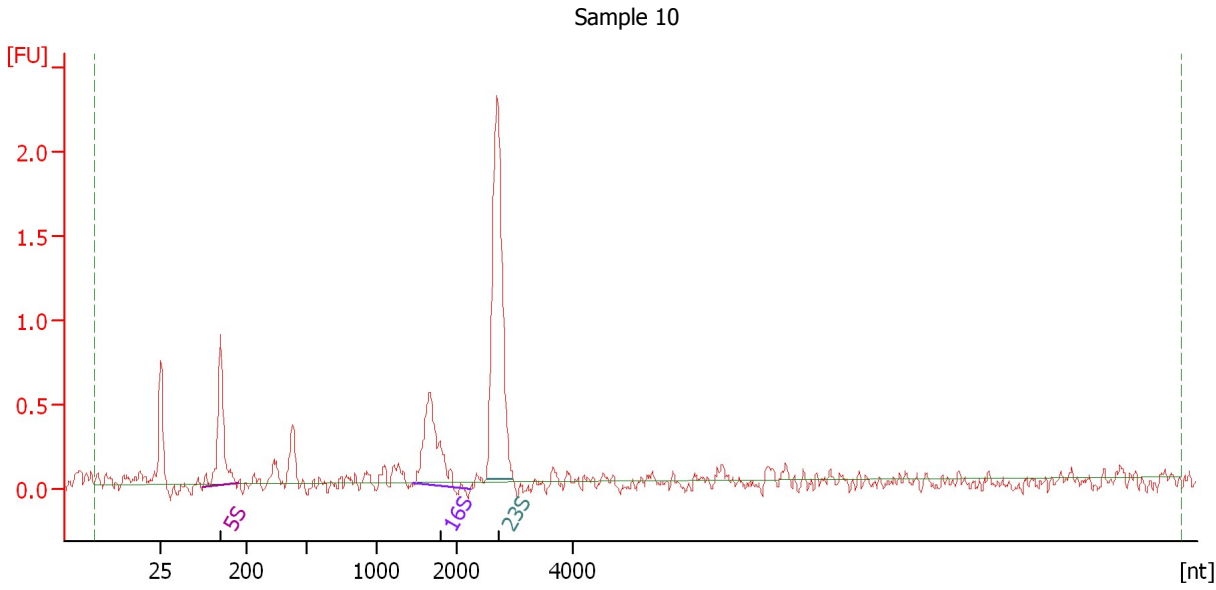
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	120	170	0.9	8.1
16S	1,324	1,999	2.8	25.0
23S	2,245	2,991	5.5	48.8



Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : Sample 10**

RNA Area: 9.9 rRNA Contamination: 40.2 %  
RNA Concentration: 84 pg/ $\mu$ l

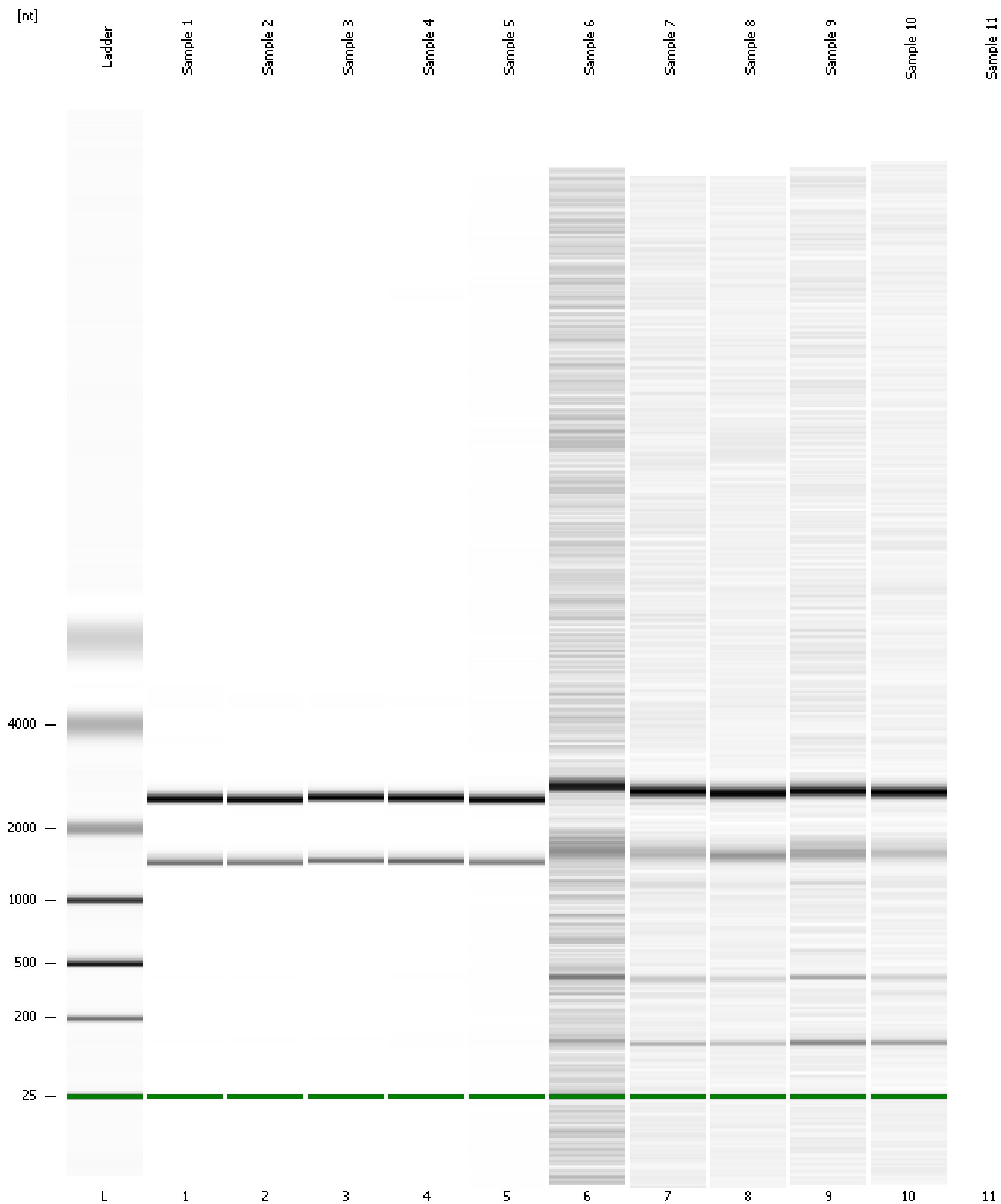
**Fragment table for sample 10 : Sample 10**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
5S	110	181	1.5	15.7
16S	1,437	2,246	1.5	15.3
23S	2,514	2,983	4.0	40.2

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Gel Image**



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Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
Modified: 12/22/2016 12:59:11 PM

**Invalid Samples**

Sample 11 has not been run, no results available.



Assay Class: mRNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2016-12-22\2016-12-22\_002.xad

Created: 12/22/2016 12:30:16 PM  
 Modified: 12/22/2016 12:59:11 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 11)		Instrument	Run		12/22/2016 12:54:29 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\2016-12-22\2016-12-22_002.xad)		Instrument	Run		12/22/2016 12:30:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		12/22/2016 12:30:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		12/22/2016 12:30:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		12/22/2016 12:30:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		12/22/2016 12:30:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		12/22/2016 12:30:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		12/22/2016 12:30:21 PM	(GMT --08:00) Pacific Standard Time	UC Davis	D8XSMGH1