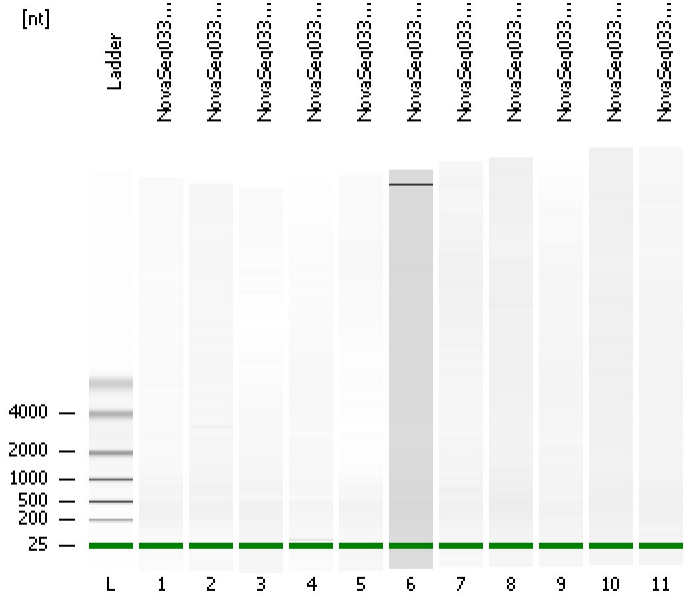


Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 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

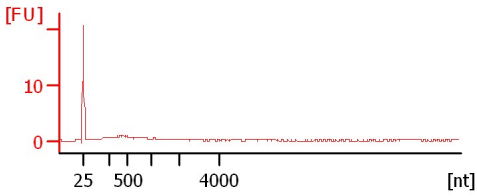
Assay Class: mRNA Pico  
Version: 2.6  
Assay Comments: mRNA Analysis pg sensitivity

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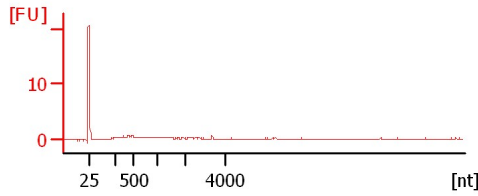
#### Chip Information:

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

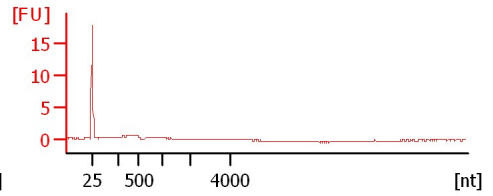
NovaSeq033 - 1 BC DNA



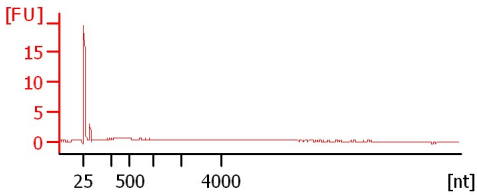
NovaSeq033 - 2 BC DNA



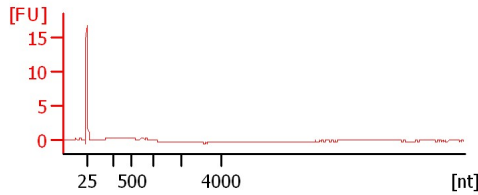
NovaSeq033 - 3 BC DNA



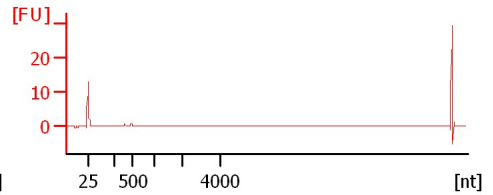
NovaSeq033 - 4 BC DNA



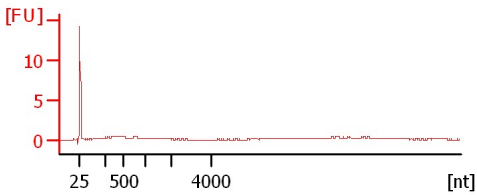
NovaSeq033 - 5 BC DNA



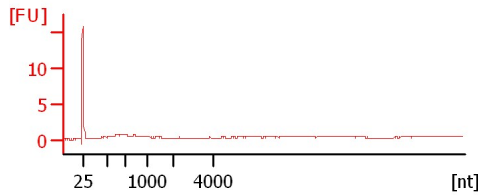
NovaSeq033 - 6 BC DNA



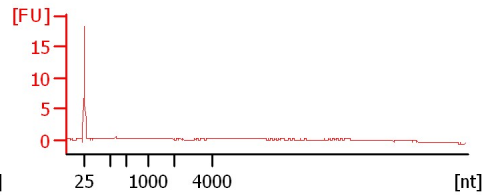
NovaSeq033 - 7 BC DNA



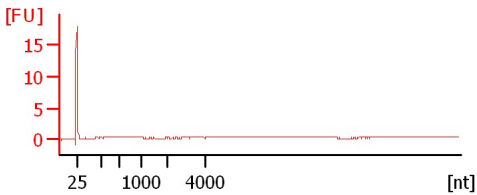
NovaSeq033 - 8 BC DNA



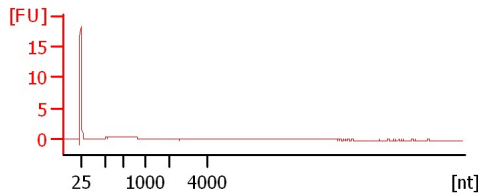
NovaSeq033 - 9 BC DNA



NovaSeq033 - 10 BC DNA



NovaSeq033 - 11 BC DNA



Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

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

Sample Name	Sample Comment	Status	Result Label	Result Color
NovaSeq033 - 1 BC DNA		✓		
NovaSeq033 - 2 BC DNA		✓		
NovaSeq033 - 3 BC DNA		✓		
NovaSeq033 - 4 BC DNA		✓		
NovaSeq033 - 5 BC DNA		✓		
NovaSeq033 - 6 BC DNA		✓		
NovaSeq033 - 7 BC DNA		✓		
NovaSeq033 - 8 BC DNA		✓		
NovaSeq033 - 9 BC DNA		✓		
NovaSeq033 - 10 BC DNA		✓		
NovaSeq033 - 11 BC DNA		✓		
Ladder		✓		

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 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

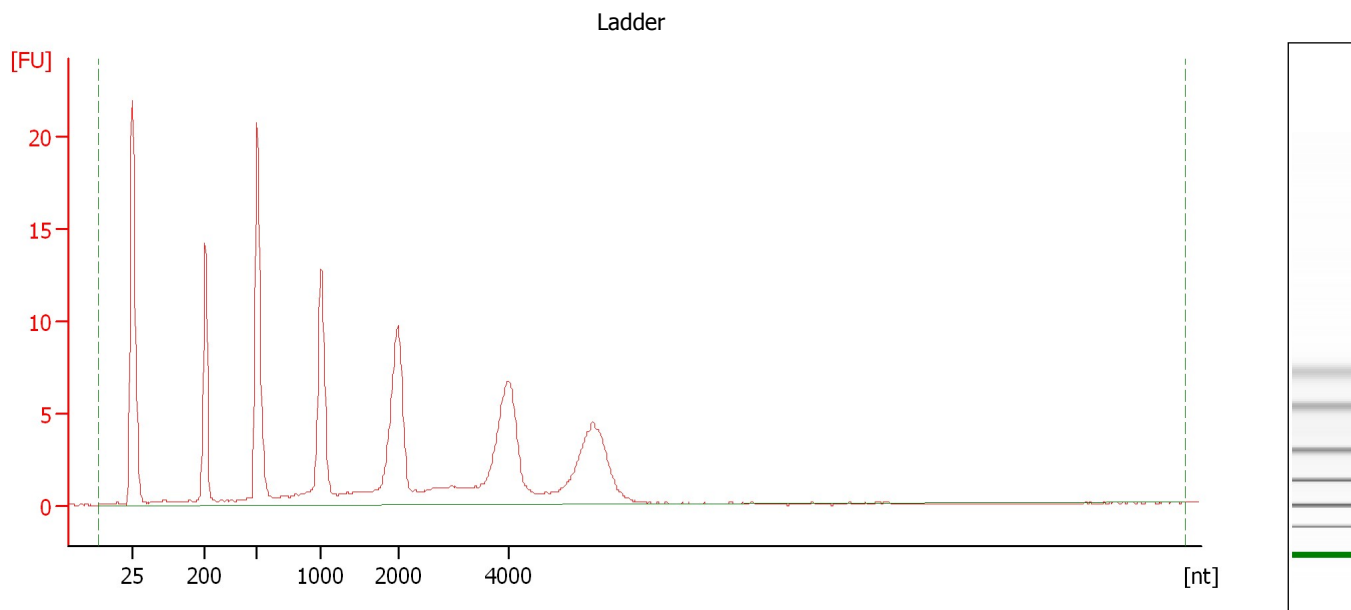
### Ladder

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\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary**



**Overall Results for Ladder**

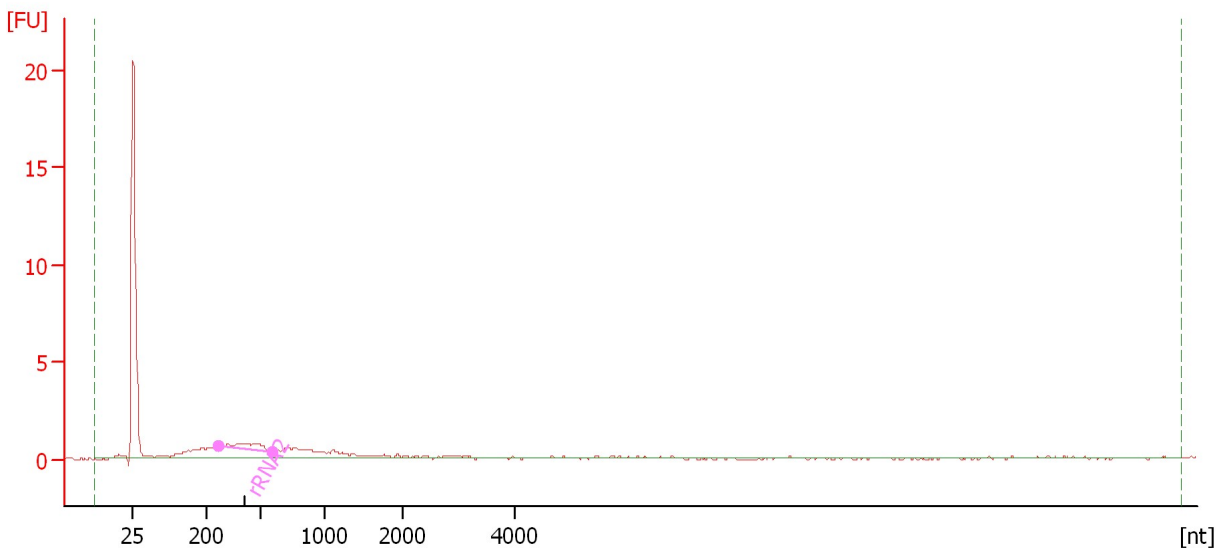
RNA Area: 170.8                      RNA Concentration: 1,000 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 1 BC DNA



**Overall Results for sample 1 : NovaSeq033 - 1 BC DNA**

RNA Area: 26.4                                      rRNA Contamination: 8.7 %  
RNA Concentration: 154 pg/μl

**Fragment table for sample 1 : NovaSeq033 - 1 BC DNA**

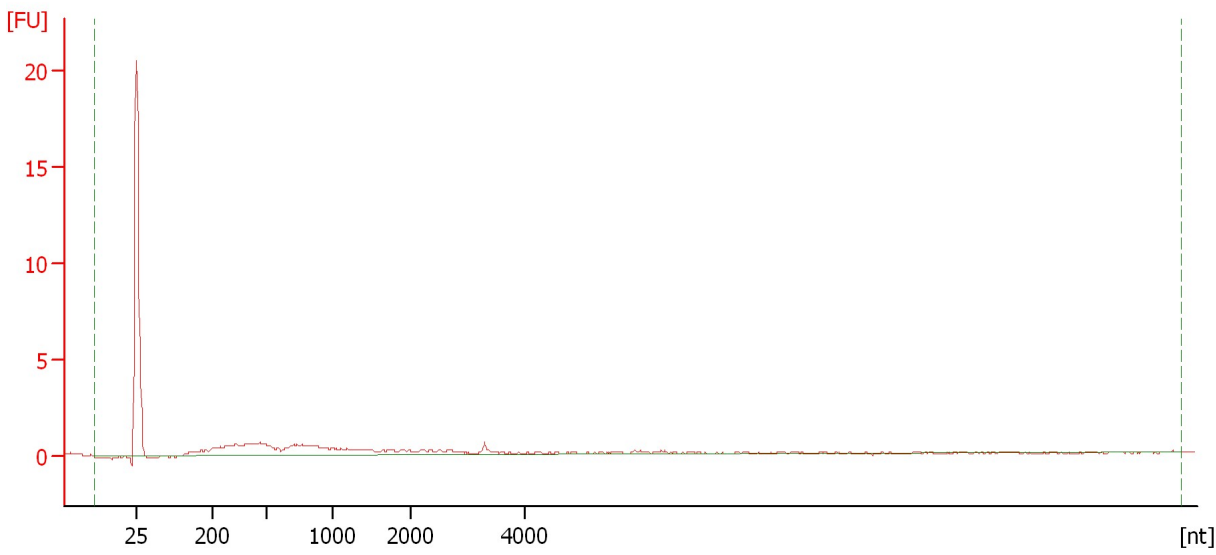
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
rRNA2	261	588	2.3	8.7

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 2 BC DNA



**Overall Results for sample 2 : NovaSeq033 - 2 BC DNA**

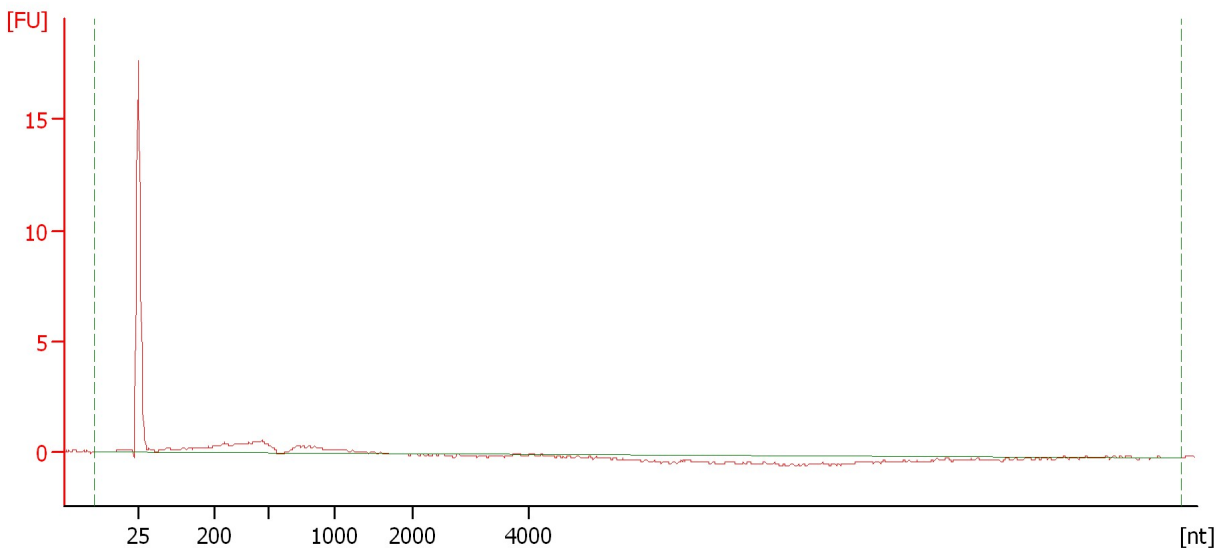
RNA Area: 25.3                      rRNA Contamination: 0.0 %  
RNA Concentration: 148 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 3 BC DNA



**Overall Results for sample 3 : NovaSeq033 - 3 BC DNA**

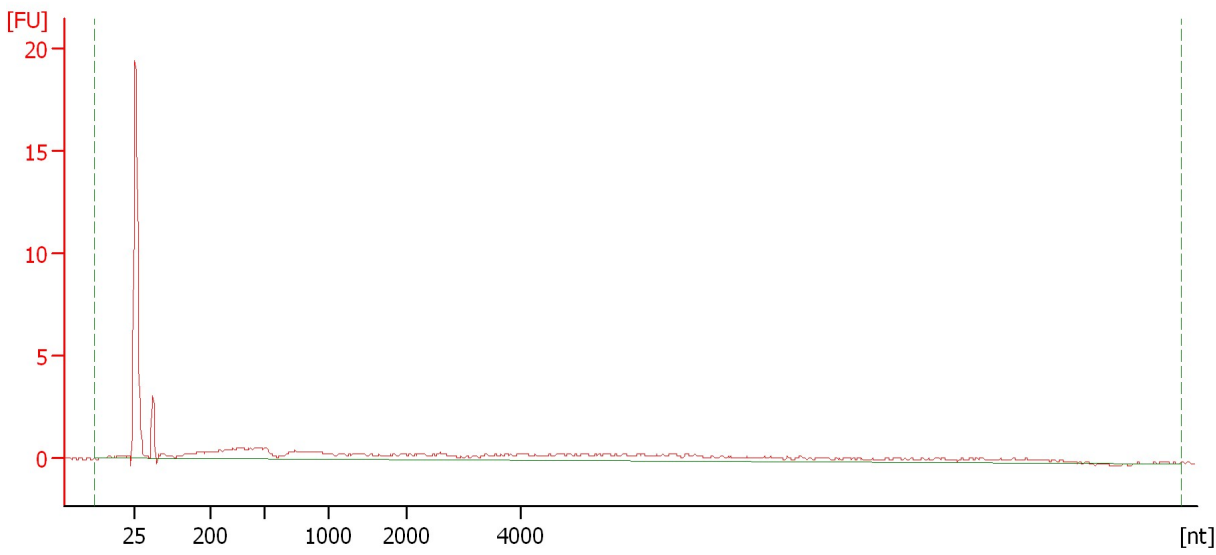
RNA Area:	13.3	rRNA Contamination:	0.0 %
RNA Concentration:	78 pg/μl		

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 4 BC DNA



**Overall Results for sample 4 : NovaSeq033 - 4 BC DNA**

RNA Area:	39.2	rRNA Contamination:	0.0 %
RNA Concentration:	229 pg/μl		

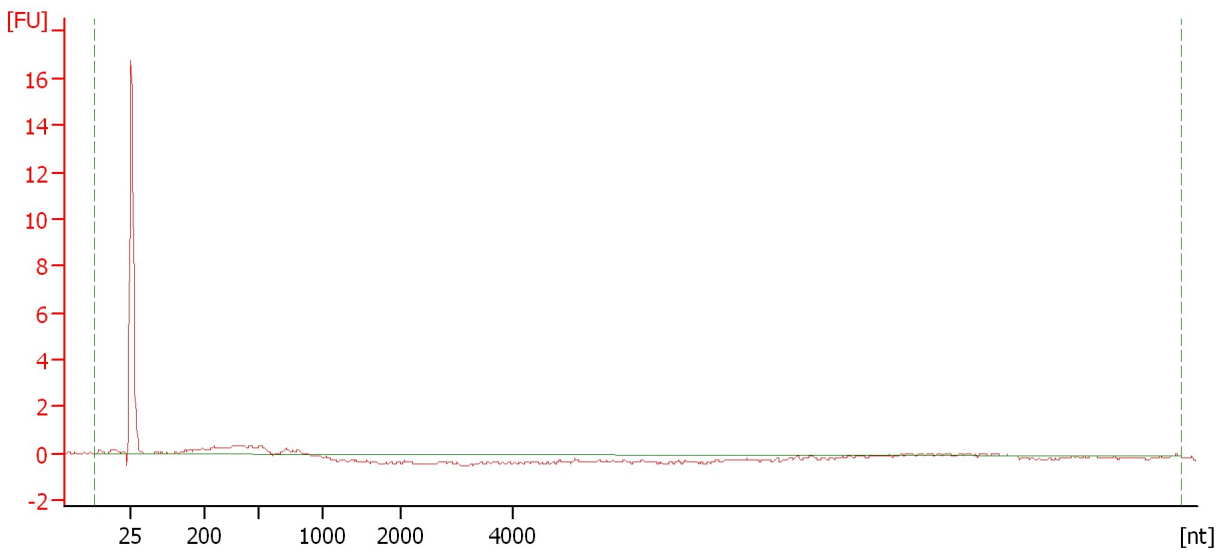


Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 5 BC DNA



**Overall Results for sample 5 : NovaSeq033 - 5 BC DNA**

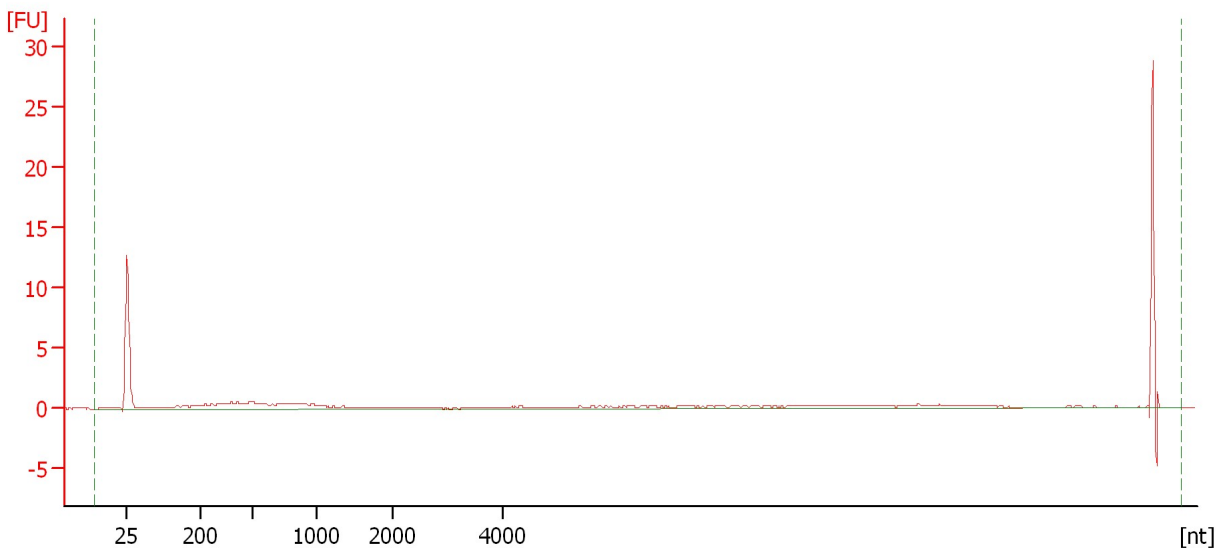
RNA Area: 7.6                      rRNA Contamination: 0.0 %  
RNA Concentration: 44 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 6 BC DNA



**Overall Results for sample 6 : NovaSeq033 - 6 BC DNA**

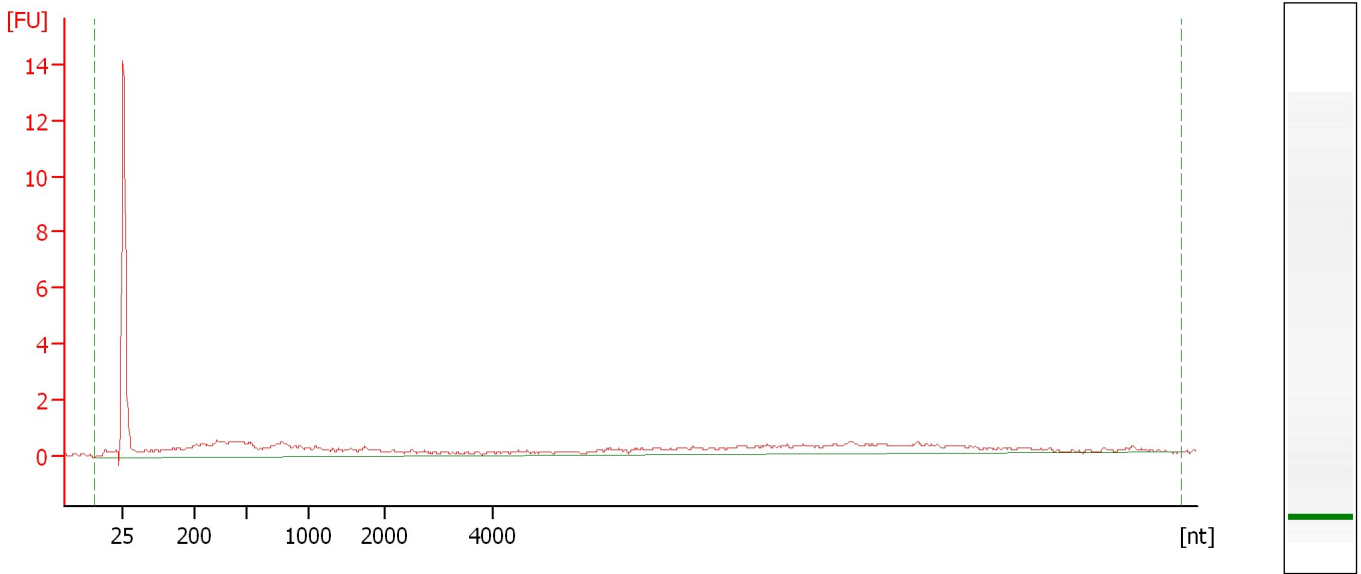
RNA Area: 30.7                      rRNA Contamination: 0.0 %  
RNA Concentration: 180 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 7 BC DNA



**Overall Results for sample 7 : NovaSeq033 - 7 BC DNA**

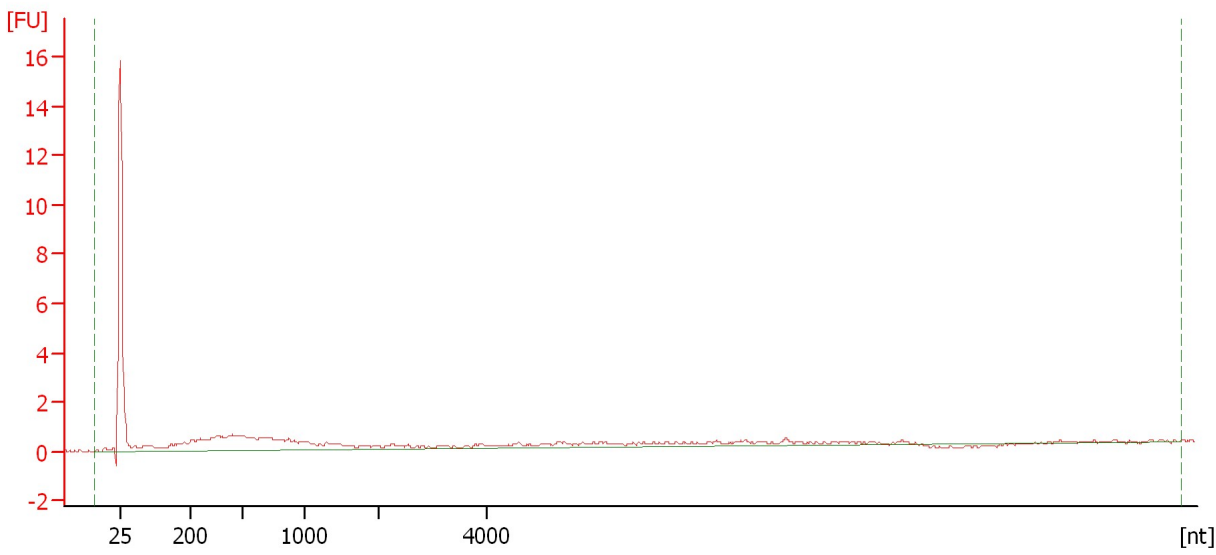
RNA Area:	37.1	rRNA Contamination:	0.0 %
RNA Concentration:	217 pg/μl		

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 8 BC DNA



**Overall Results for sample 8 : NovaSeq033 - 8 BC DNA**

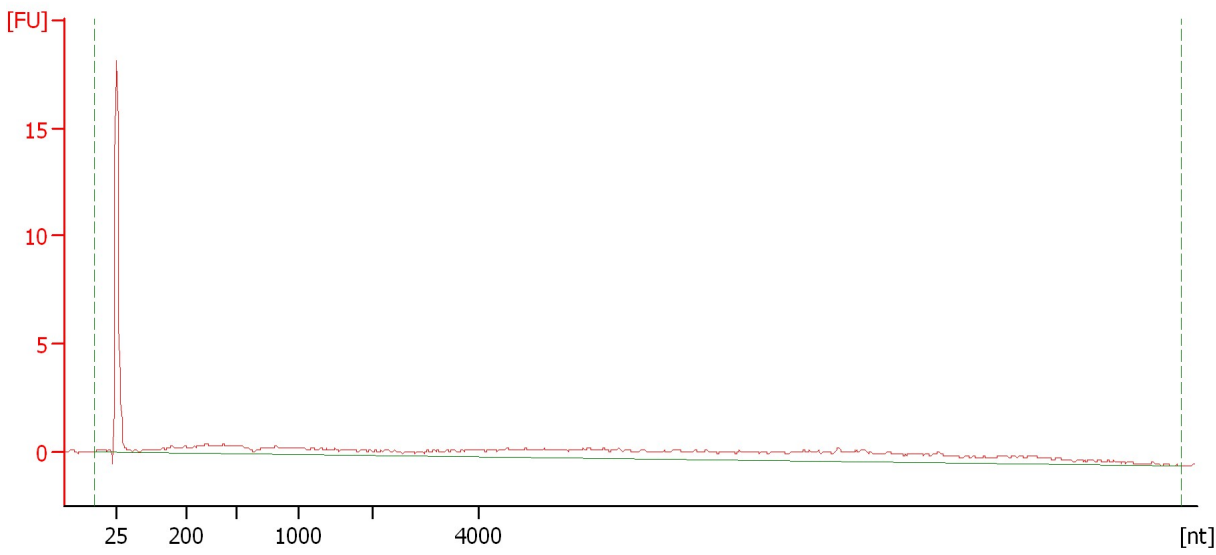
RNA Area: 27.2                      rRNA Contamination: 0.0 %  
RNA Concentration: 159 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 9 BC DNA



**Overall Results for sample 9 : NovaSeq033 - 9 BC DNA**

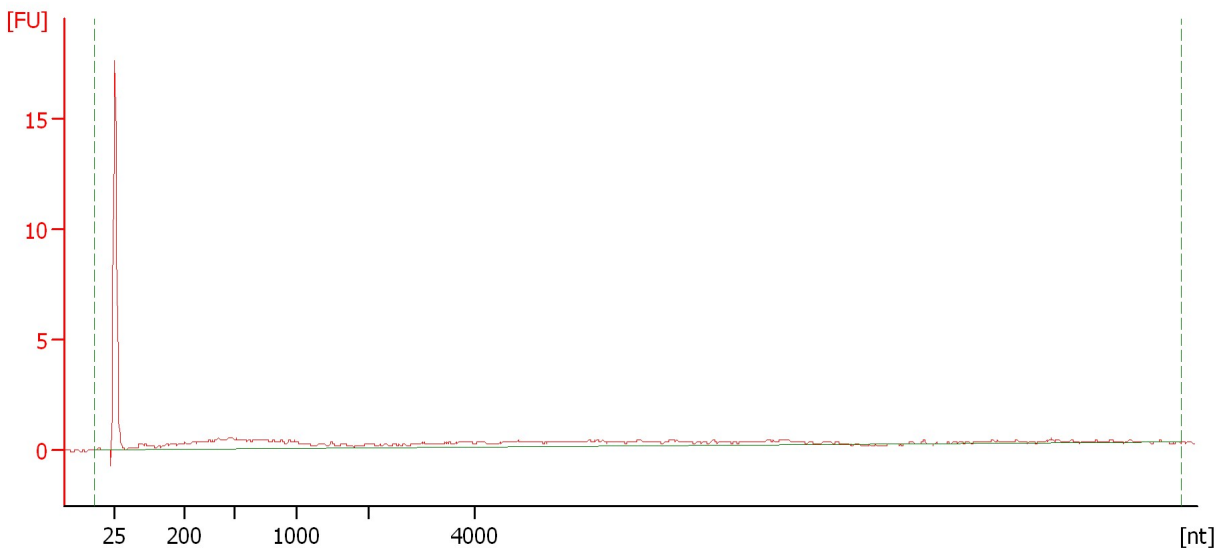
RNA Area: 47.1                      rRNA Contamination: 0.0 %  
RNA Concentration: 275 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 10 BC DNA



**Overall Results for sample 10 : NovaSeq033 - 10 BC DNA**

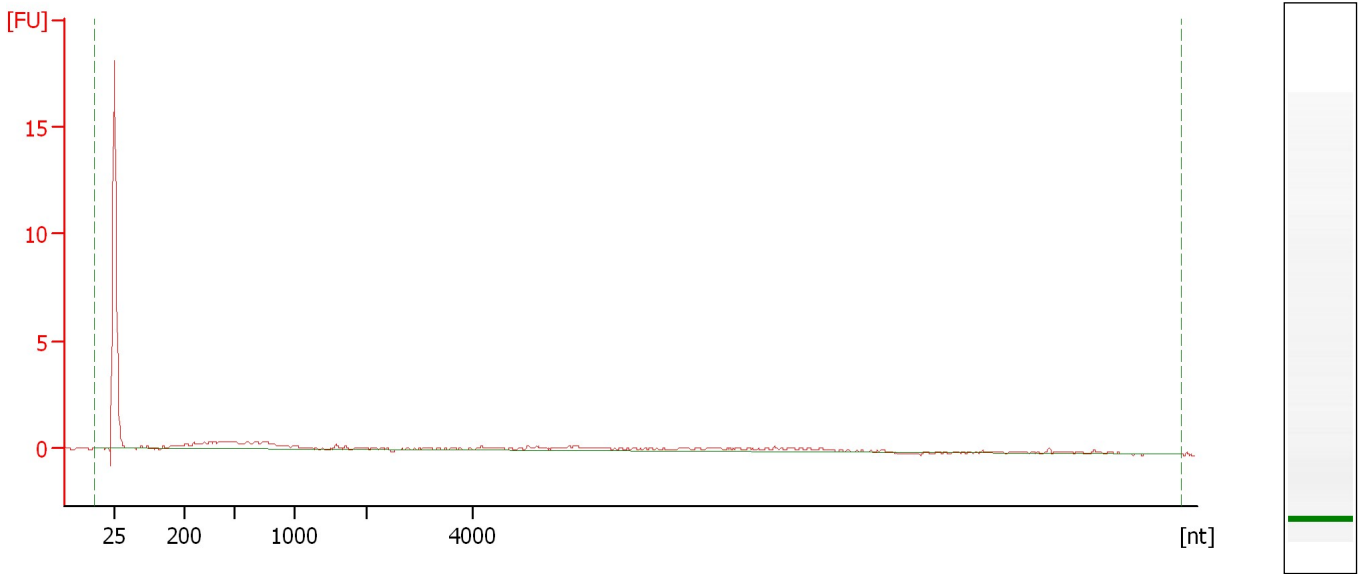
RNA Area: 29.9                      rRNA Contamination: 0.0 %  
RNA Concentration: 175 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Electropherogram Summary Continued ...**

NovaSeq033 - 11 BC DNA



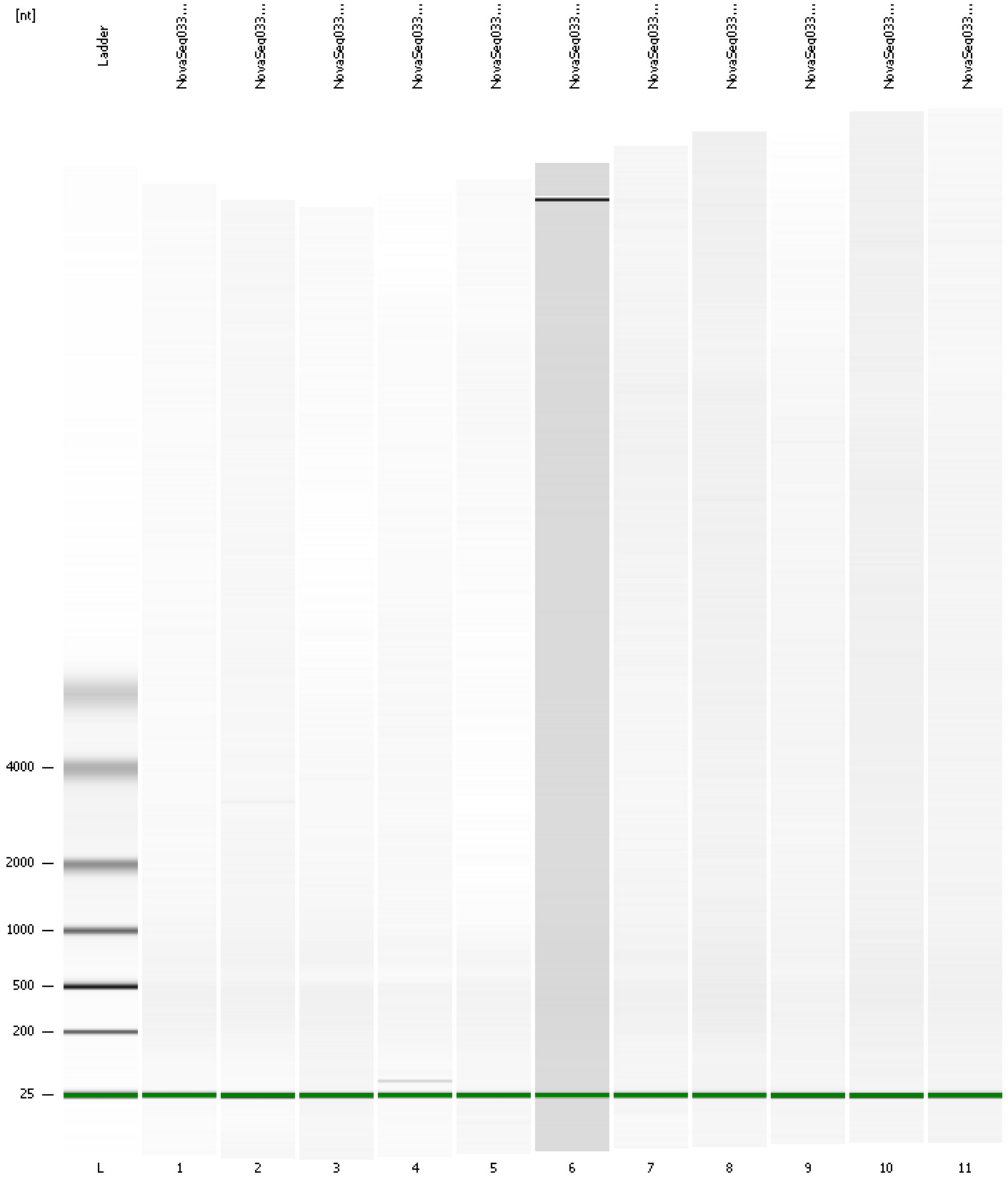
**Overall Results for sample 11 : NovaSeq033 - 11 BC DNA**

RNA Area: 17.8                      rRNA Contamination: 0.0 %  
RNA Concentration: 104 pg/μl

Assay Class: mRNA Pico  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
Modified: 5/14/2019 5:09:55 PM

**Gel Image**





Assay Class: mRNA Pico  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-05-14\2019-05-14\_001.xad

Created: 5/14/2019 4:44:01 PM  
 Modified: 5/14/2019 5:09:55 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		5/14/2019 5:09:54 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\2019-05-14\2019-05-14_001.xad)		Instrument	Run		5/14/2019 4:44:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		5/14/2019 4:44:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		5/14/2019 4:44:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		5/14/2019 4:44:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		5/14/2019 4:44:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		5/14/2019 4:44:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		5/14/2019 4:44:07 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1