



GEMINI ANALYSIS REPORT

OWNER

Name

Ruby Rodd

Gemini date

dd/mm/yyyy

TECHNICIAN

Name

Corben Dallas

Analysis date

dd/mm/yyyy

CHERRY TEMP

Serial number

Temp *T...*

Loop *L...*

Exchangers *E...*

GENERAL DIAGNOSTIC

TEMP All clear

LOOP All clear

EXCHANGERS All clear

OTHER All clear

CHECK LIST

TEMPERATURE

Stability Channel 1



Stability Channel 2



Channel offset



T° Sensor 1



T° Sensor 2



Ambient Sensor



FLUIDIC

Pump activation



Flowrate value



Flow switch



Pressure values



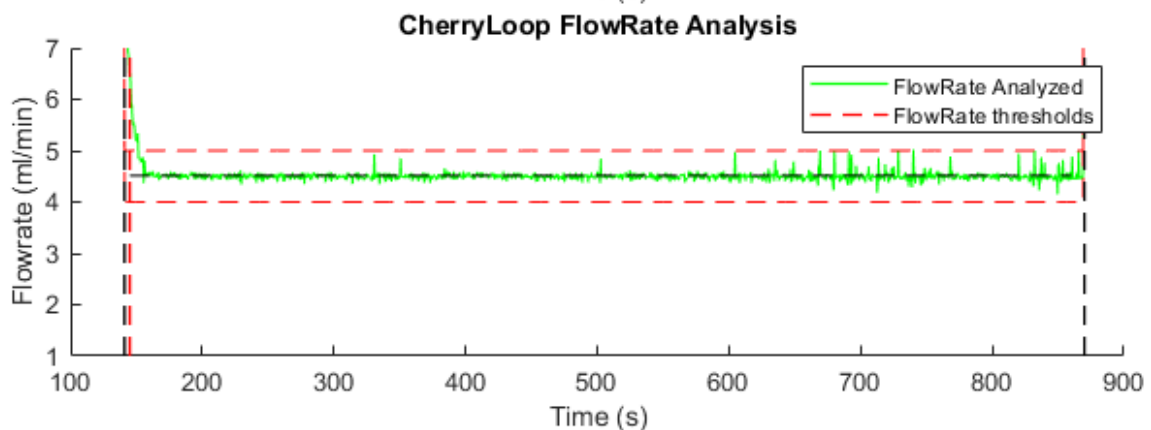
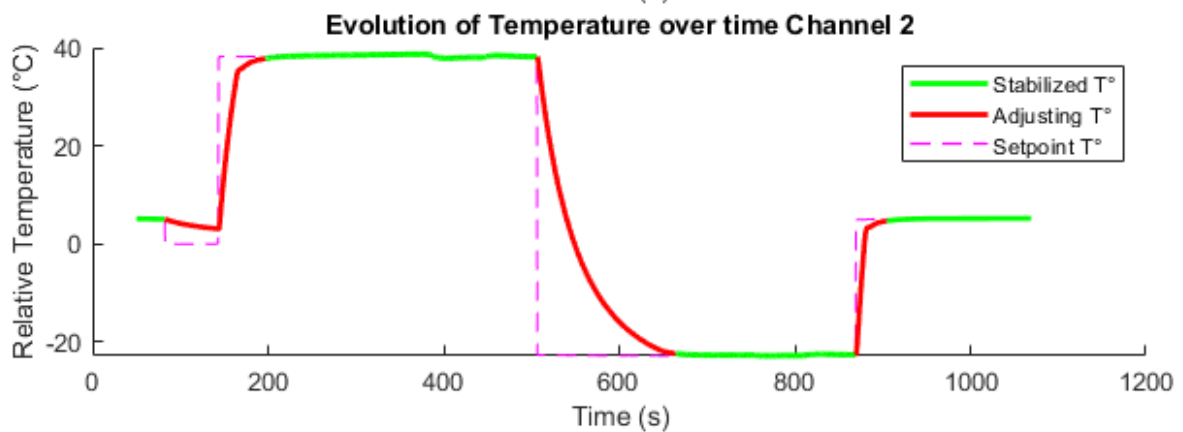
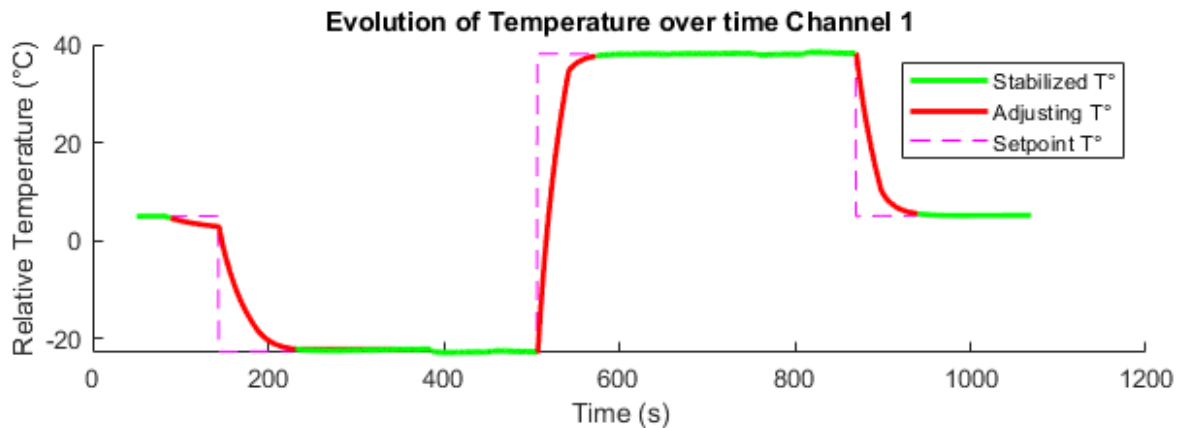
ADDITIONAL REMARKS

No additional remarks



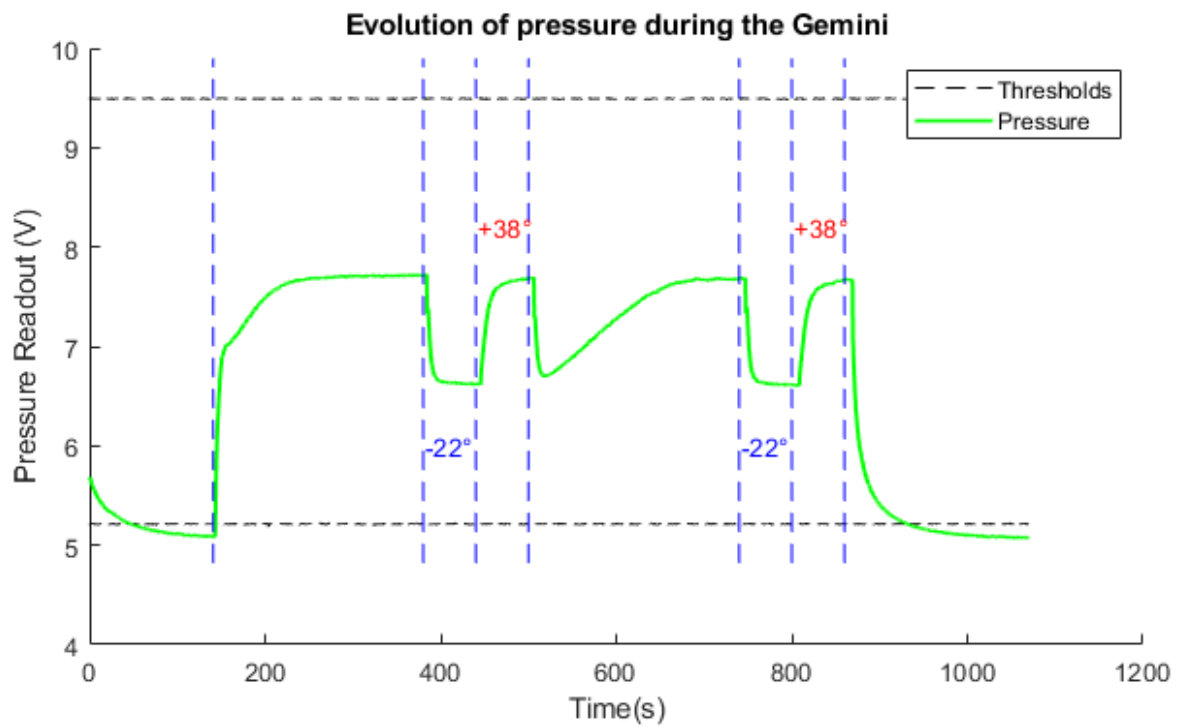


GEMINI ANALYSIS REPORT





GEMINI ANALYSIS REPORT





GEMINI ANALYSIS REPORT

GRAPH INFORMATION

1. EVOLUTION OF TEMPERATURE OVER TIME CHANNEL #1

This part of the analysis is to check if the Channel #1 and the coupled temperature sensor is behaving normally.

Channel#1 is cooled at -23°C for 6min and then heated at $+38^{\circ}\text{C}$ for 6 min again (relative to ambient t°).

On the graph the green part of the plot corresponds to temperature stabilized at $\pm 0.3^{\circ}\text{C}$ to the setpoint temperature. The red part of the plot corresponds to areas where the Channel is out of the 0.3°C range.

We analyze the time the system takes to stabilize and we check if the t° remains in the stabilized zone afterwards.

2. EVOLUTION OF TEMPERATURE OVER TIME CHANNEL#2

This analysis is the same as the previous one.

Channel#2 is first heated at $+38^{\circ}\text{C}$ for 6 min and then cooled at -23°C for 6min.

3. PUMP FLOWRATE

This analysis checks the flowrate regularity and the pumping device behavior.

This plot allows to check if the CherryLoop flowrate remains between 4 and 5 ml/min. It can highlight an eventual weakness of the pump before it affects the calibration. It also ensures that the flow (and thus the t°) going through the chip remains regular. Small flowrate overshoots are noise due to measurement artifacts and do not compromise calibration.

4. PRESSURE VALUE

The pressure value gives an image of the fluidic path: Irregularities can be analyzed, interpreted, and can then highlight the apparition of a default in a tubing or a device.

