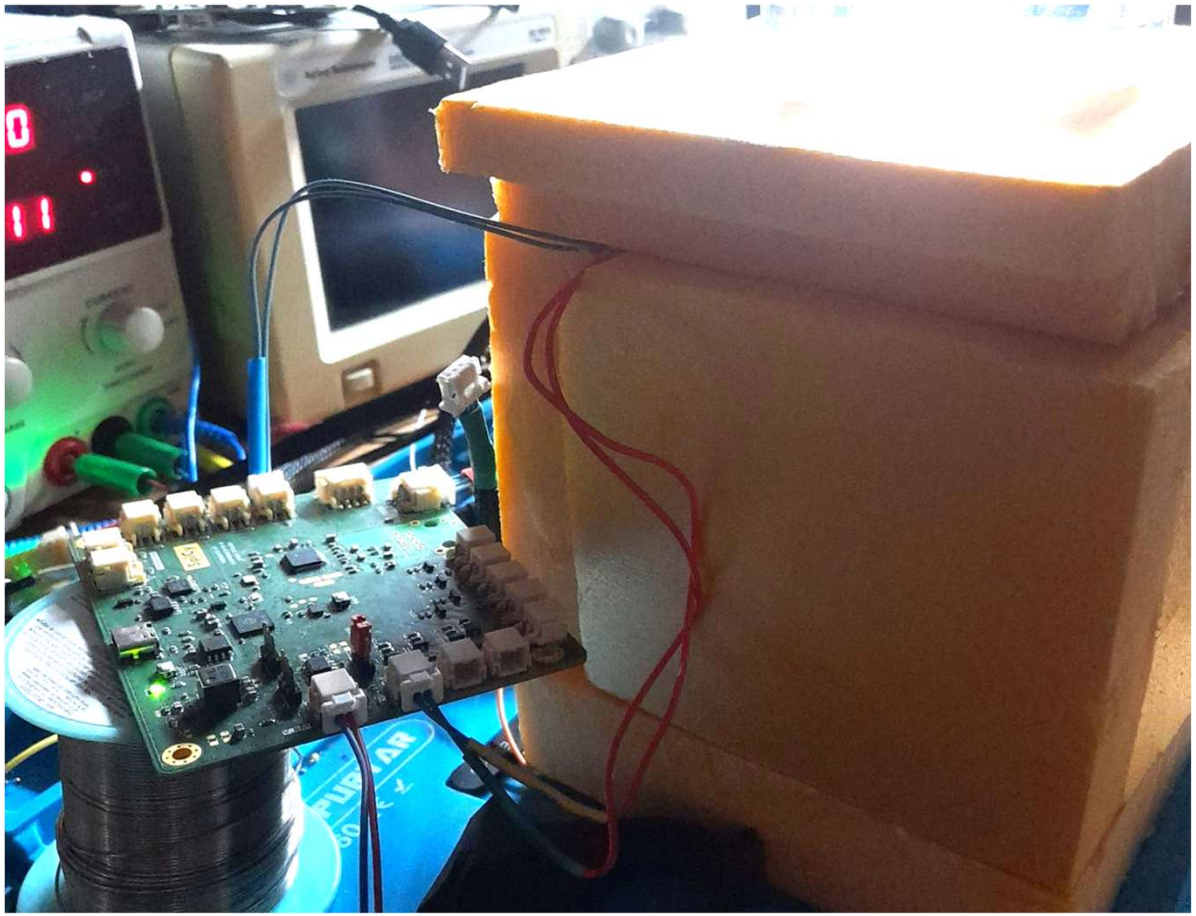
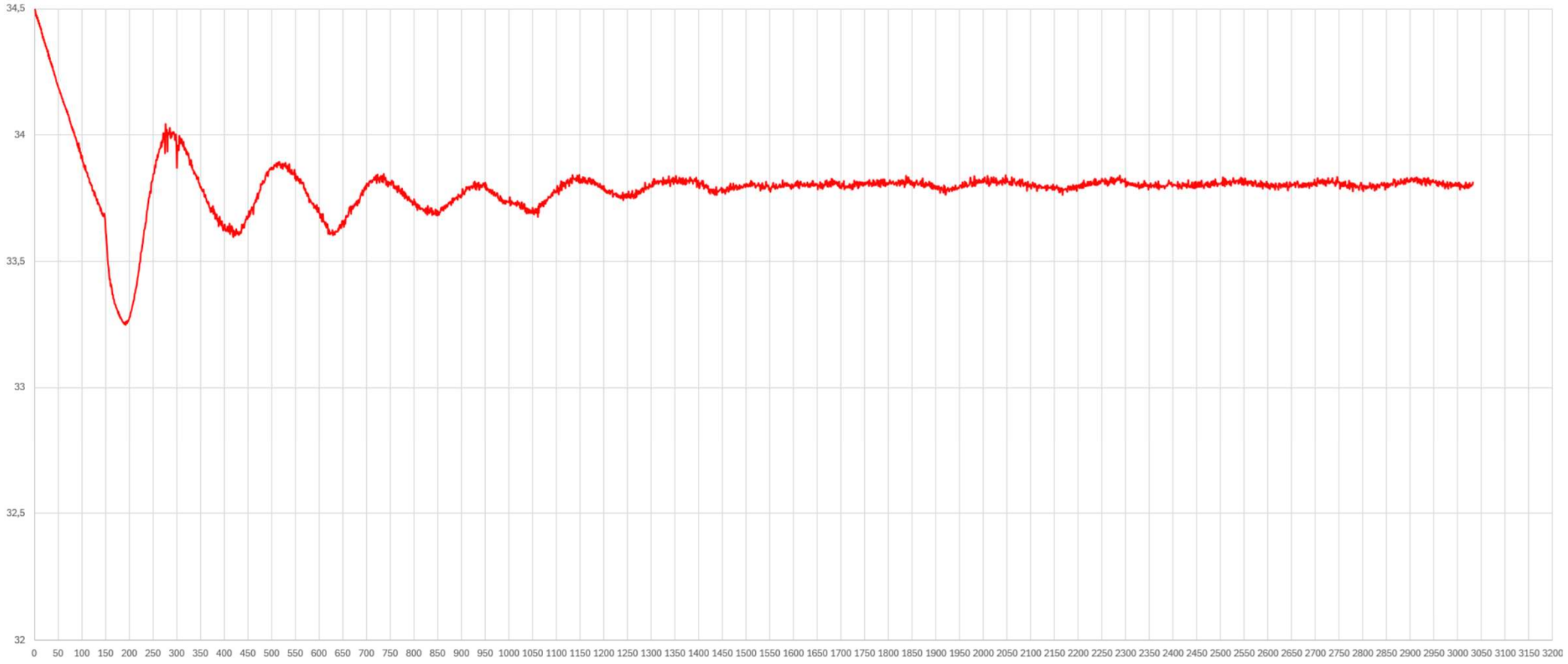
SpiCy BEXUS

thermal tests | Cube | Room Temperature



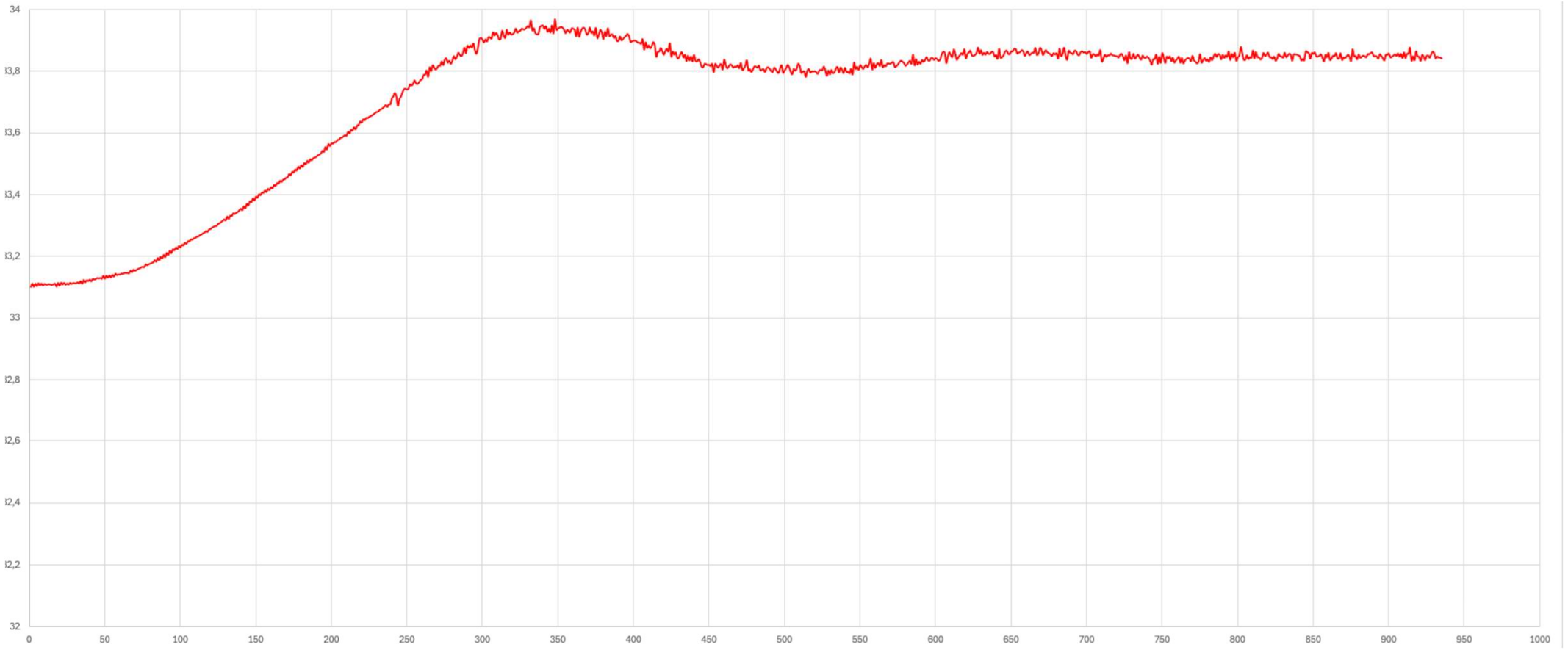
SpiCy
BEXUS

thermal tests | Cube | SetTemp=34 | kp=4 ki=0.008 ki_max=0.4



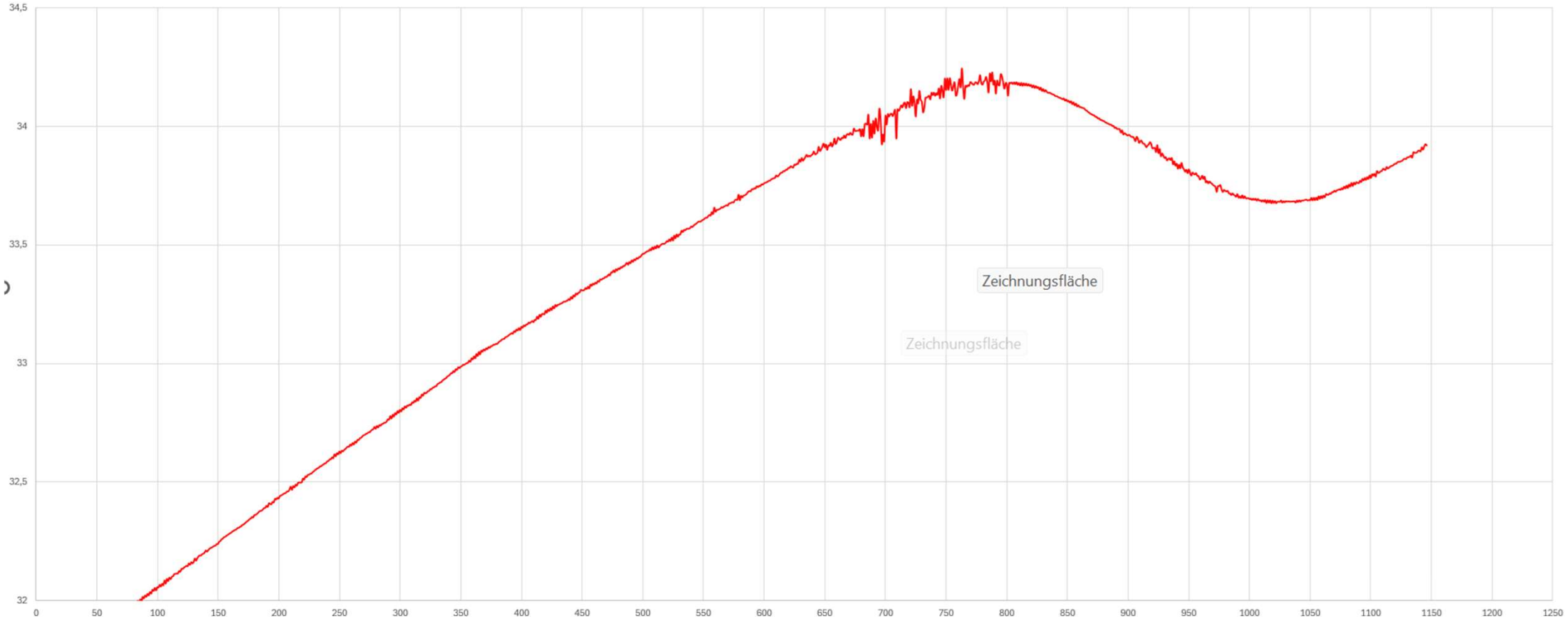
SpiCy
BEXUS

thermal tests | Cube | SetTemp=34 | kp=8 ki=0.0004 ki_max=0.1



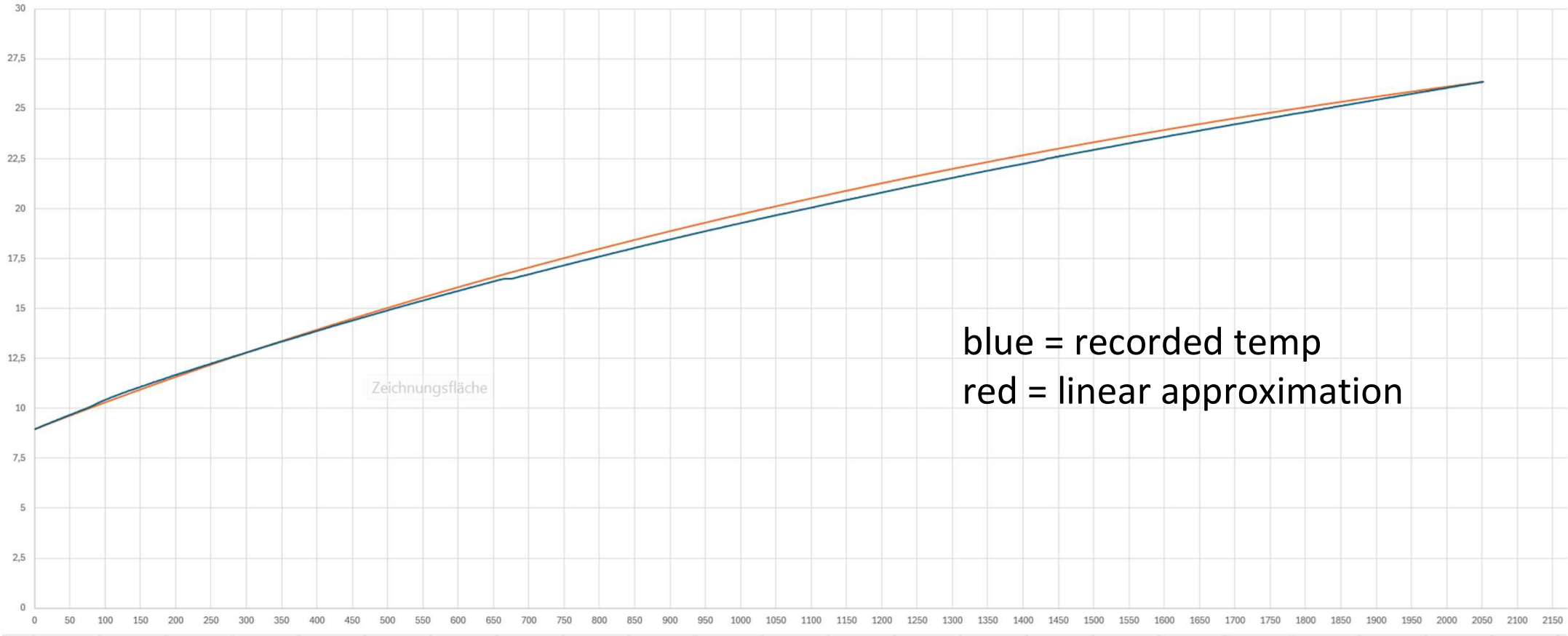
SpiCy BEXUS

thermal tests | Cube | SetTemp=34 | kp=4 ki=0.1 ki_max=3



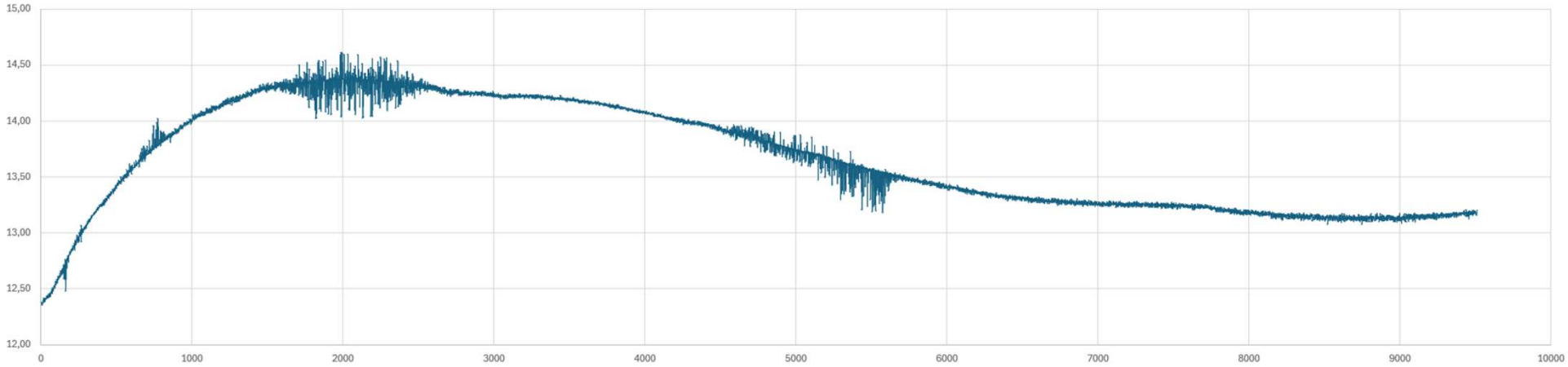
SpiCy BEXUS

thermal tests | Cube | Step Response Function | 2.5W



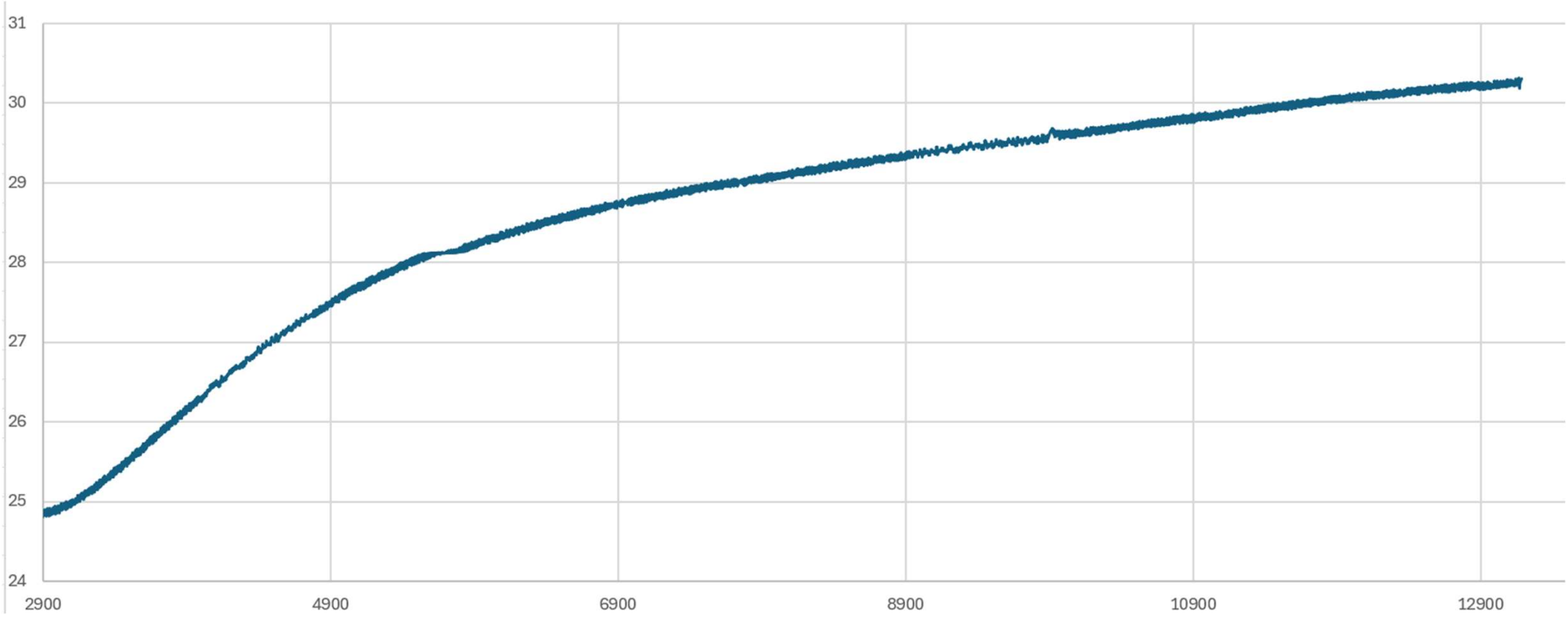
SpiCy
BEXUS

Thermal Tests | Module | Variation in Temperatur in Fynn‘s Fridge



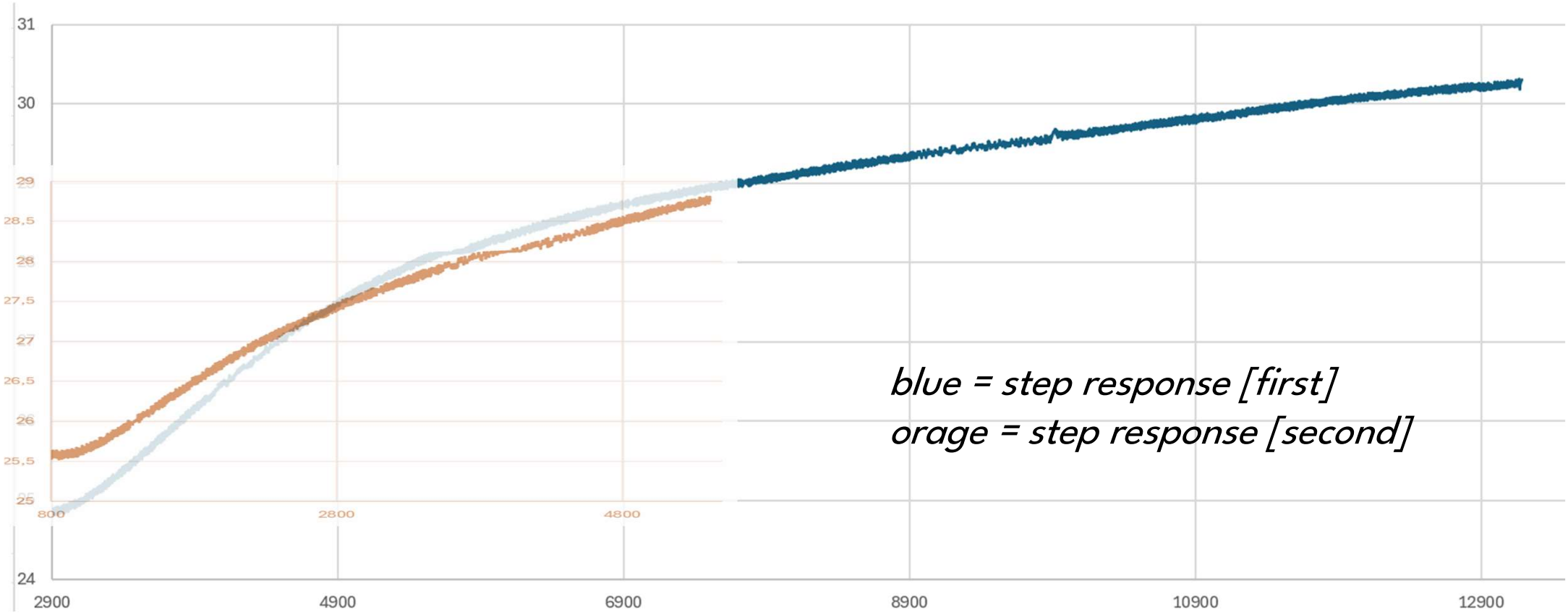
SpiCy
BEXUS

Thermal Tests | Module | 2.5W Step Response | Fynn‘s Fridge | [first recoding]



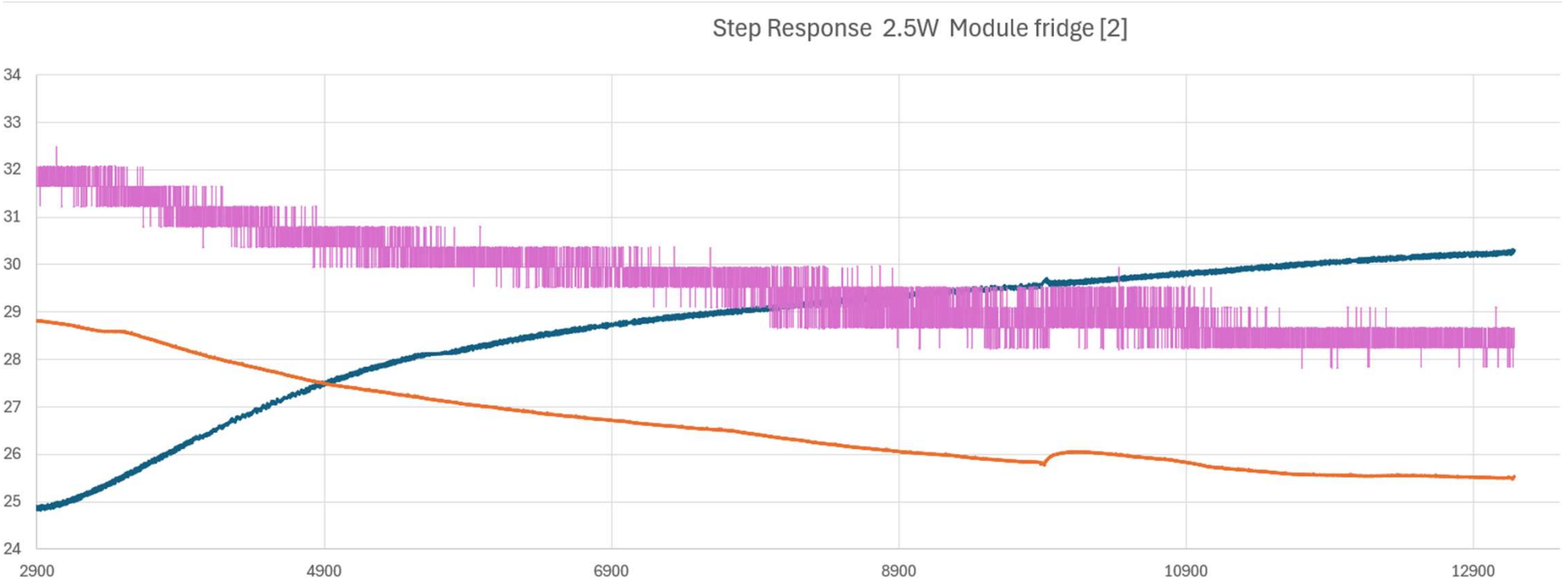
SpiCy BEXUS

Thermal Tests | Module | 2.5W Step Response | Fynn‘s Fridge | [second recording]



SpiCy BEXUS

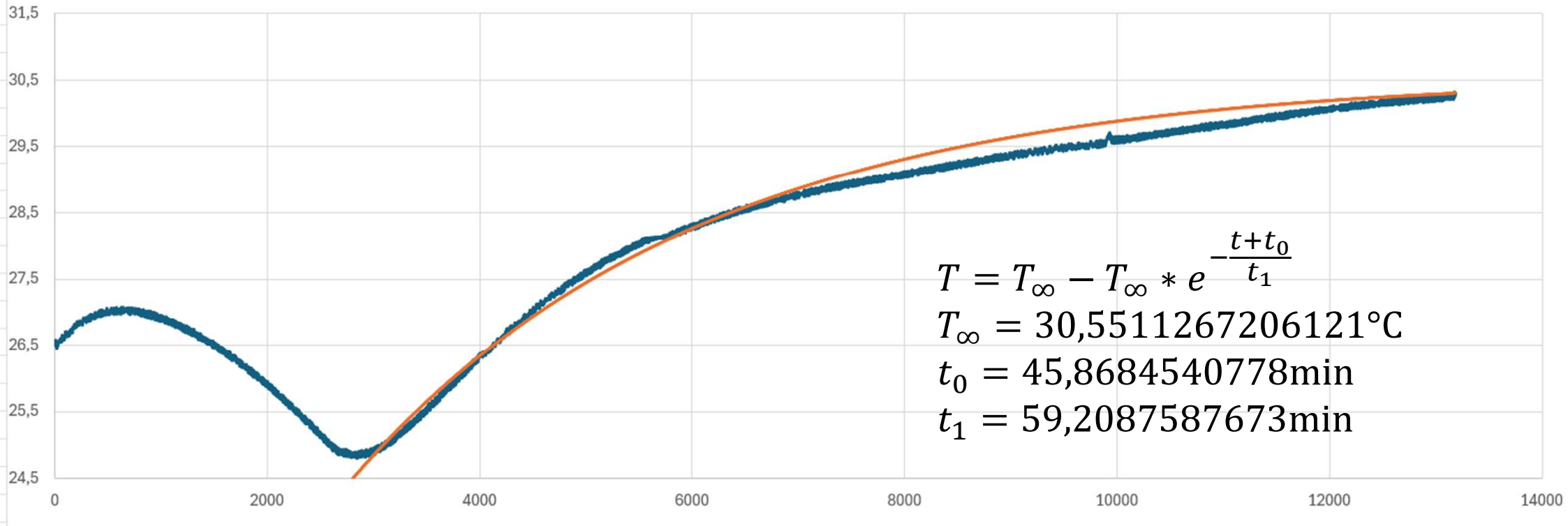
Thermal Tests | Module | 2.5W Step Response | Fynn‘s Fridge | [first recording]



blue = step response
lila = temp uC
orage = temp Motherboard

SpiCy BEXUS

Thermal Tests | Module | 2.5W Step Response | Fynn‘s Fridge | [first recording]



$$T = T_\infty - T_\infty * e^{-\frac{t+t_0}{t_1}}$$

$$T_\infty = 30{,}5511267206121°C$$

$$t_0 = 45{,}8684540778\text{min}$$

$$t_1 = 59{,}2087587673\text{min}$$

blue = step response

orage = linear aproximation