

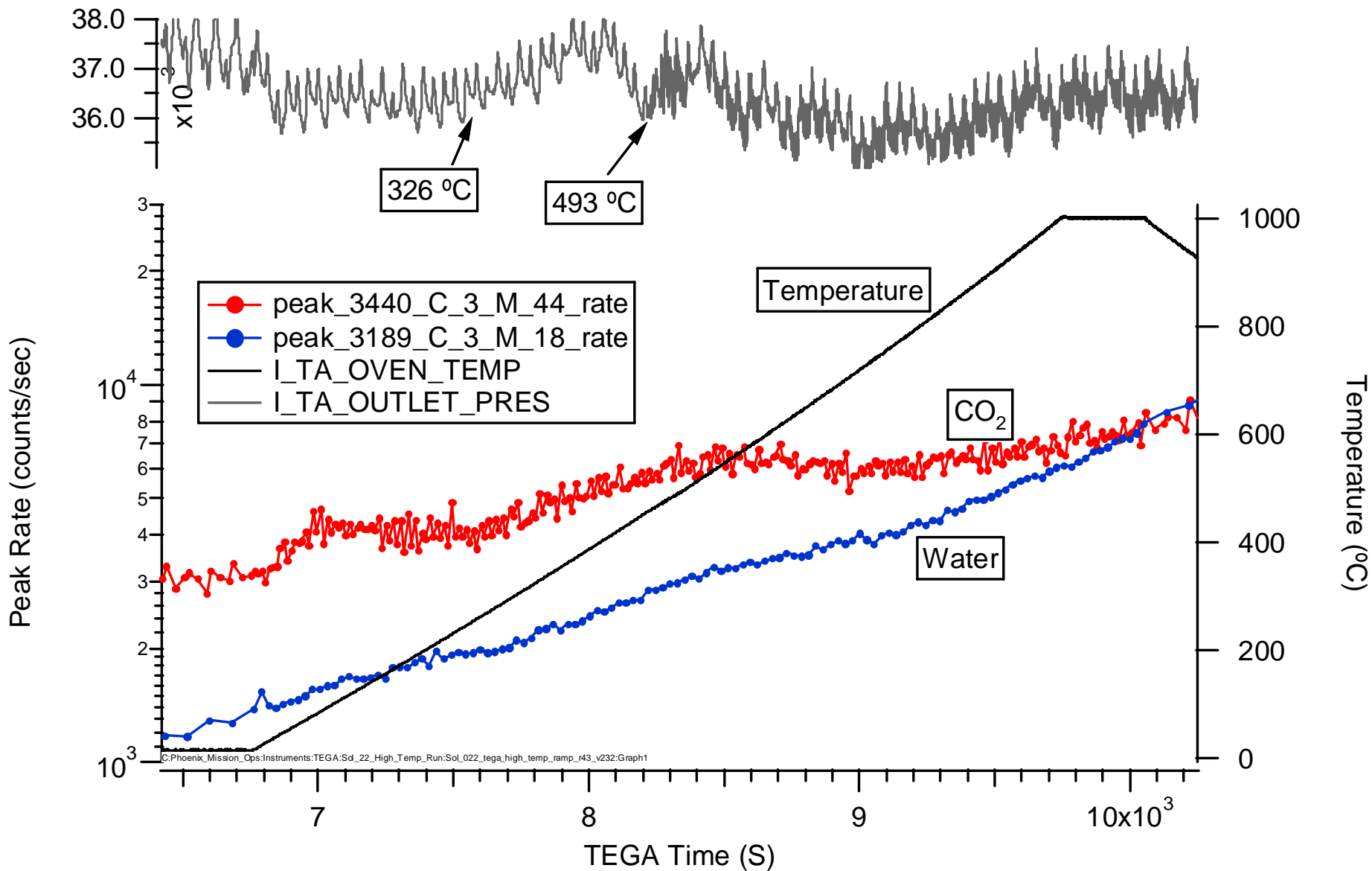
# TEGA Measurements through Sol 25

## Quicklook and VERY Preliminary!

- Characterization Phase
  - Atmosphere measurement
    - Need Calibration Gas Run to get absolute measurements
- Pristine Atmosphere Runs
  - Sols 9,11,12,16
    - Primary Objective measure D/H ratio, water vapor
    - Need calibration gas run
- Soil Sample
  - Sequence Completed on Sol 25
    - Minimal to no water observed in Low T and Mid T
    - Some Adsorbed CO<sub>2</sub>

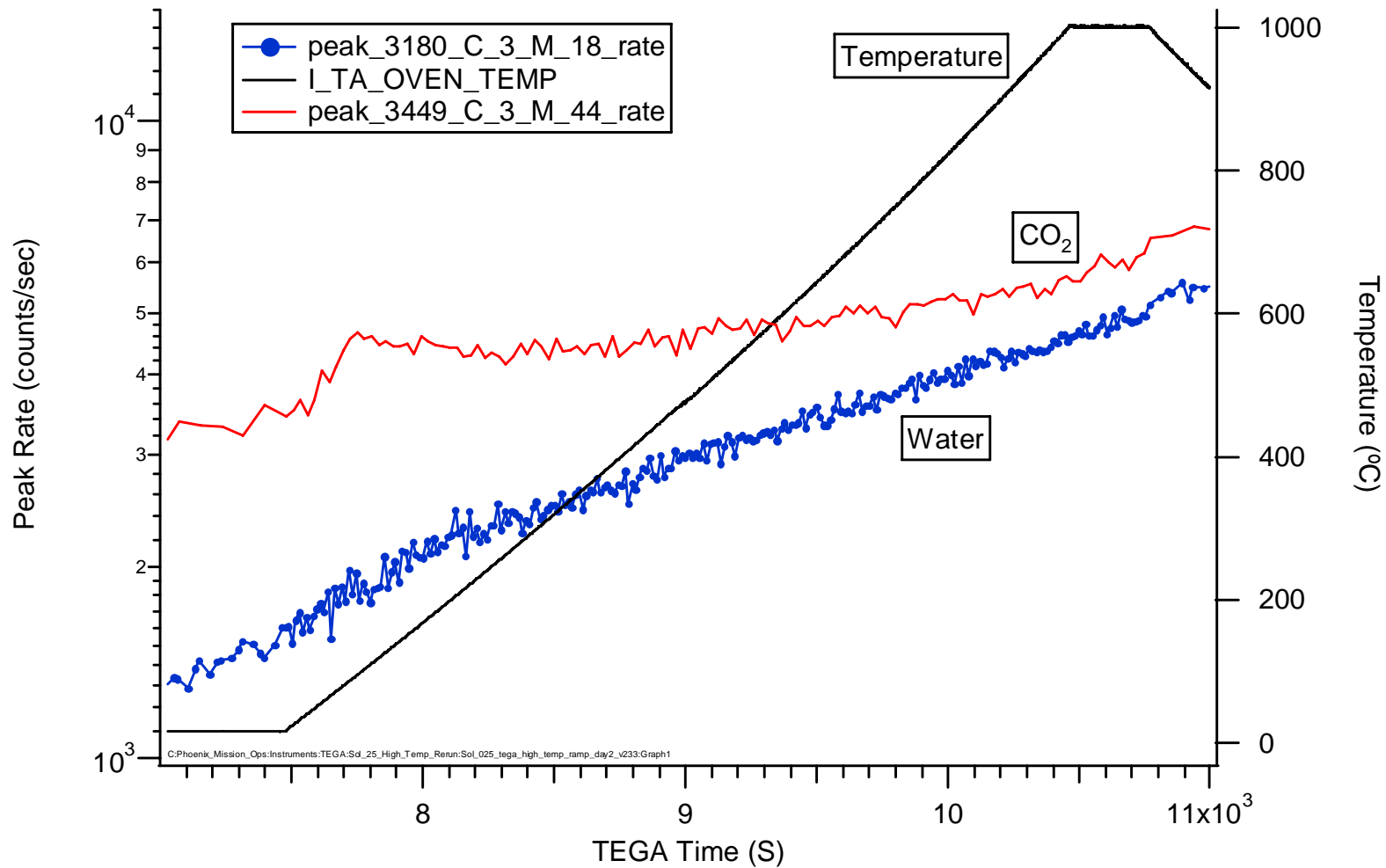
# TEGA High Temperature Run (Day 1)

## Dodo



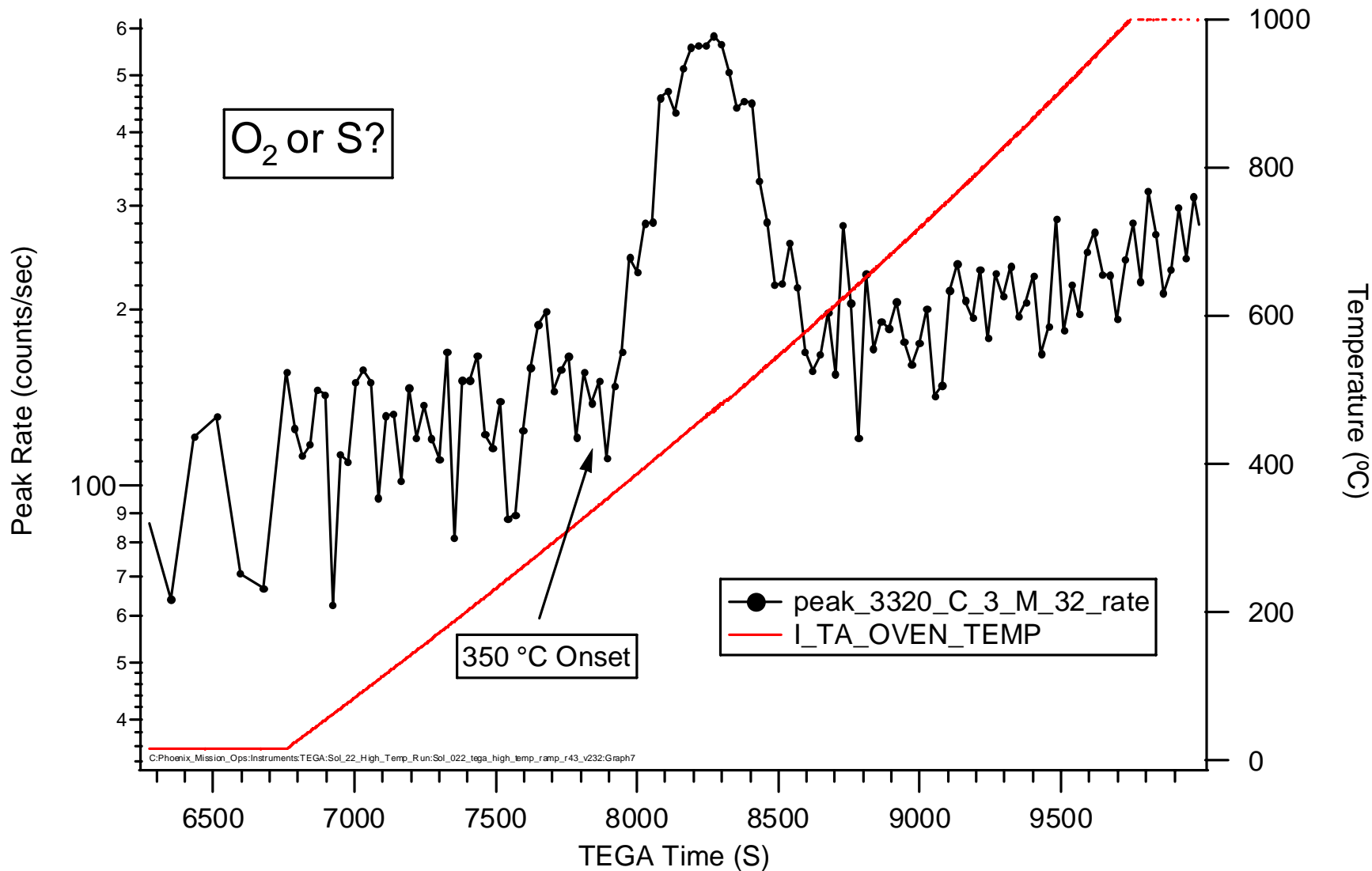
# TEGA High Temperature Rerun (Day 2)

## Dodo

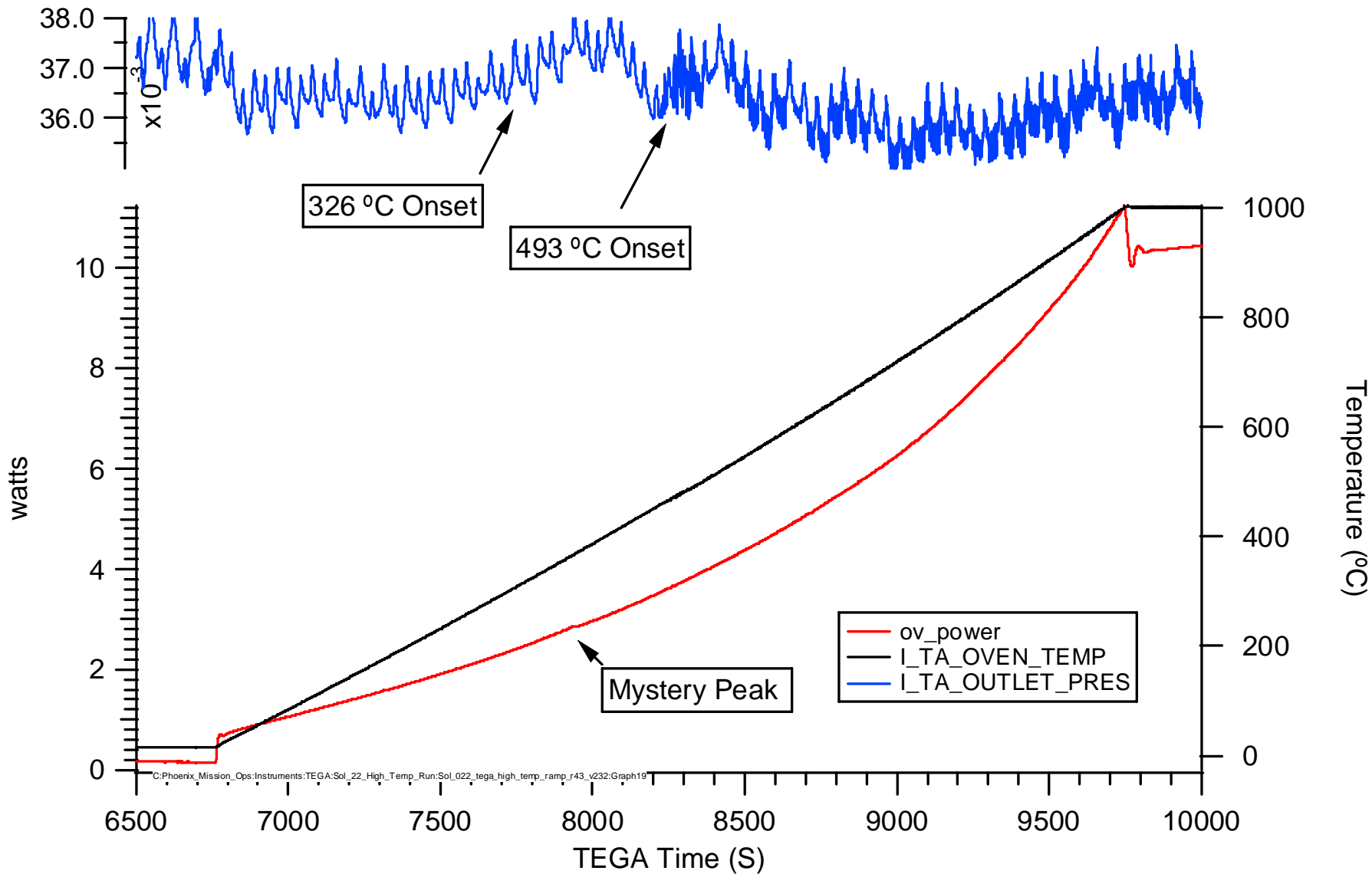


# TEGA High Temperature Run (Day 1)

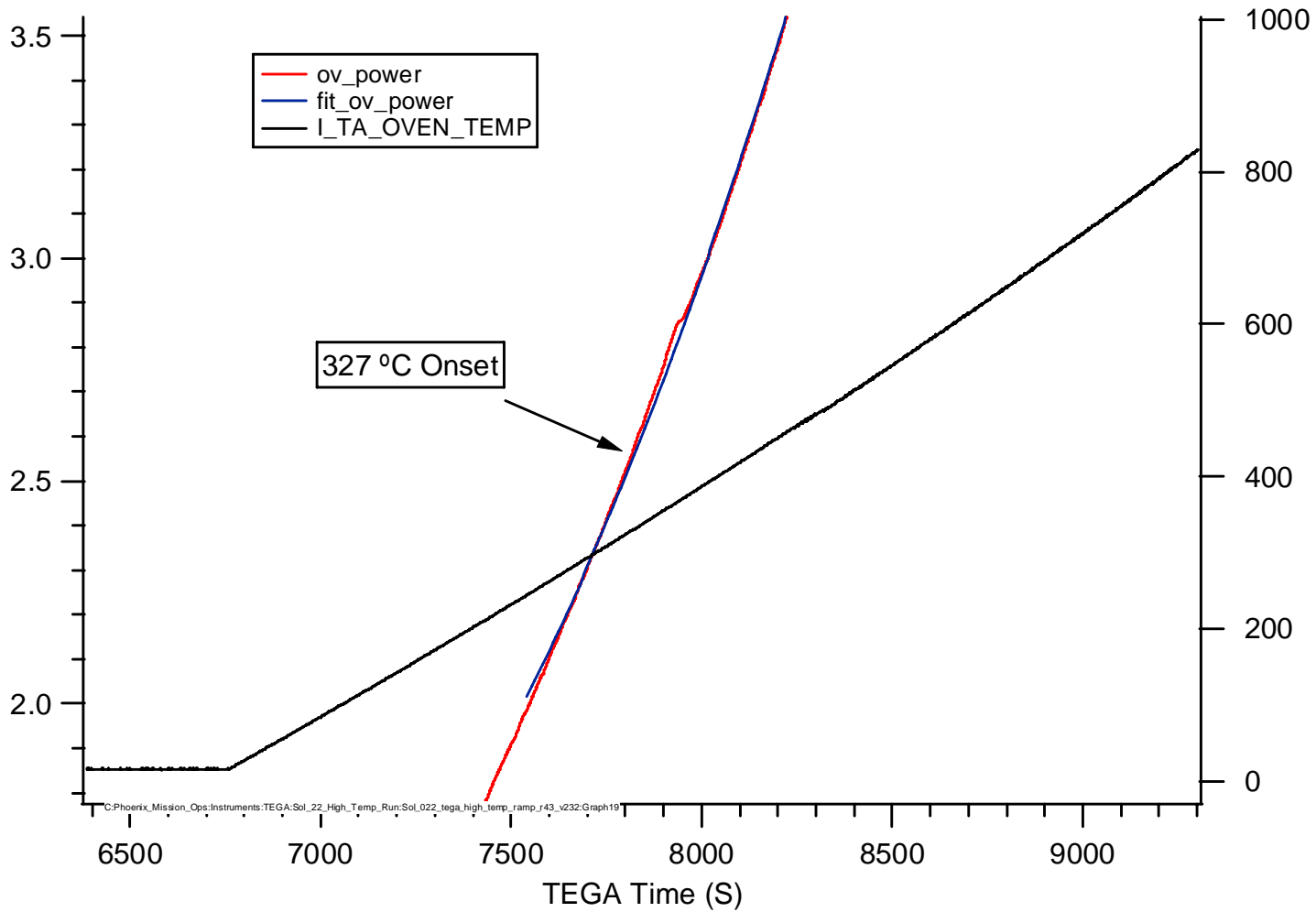
## Dodo



# TEGA High Temperature Run (Day 1) Dodo

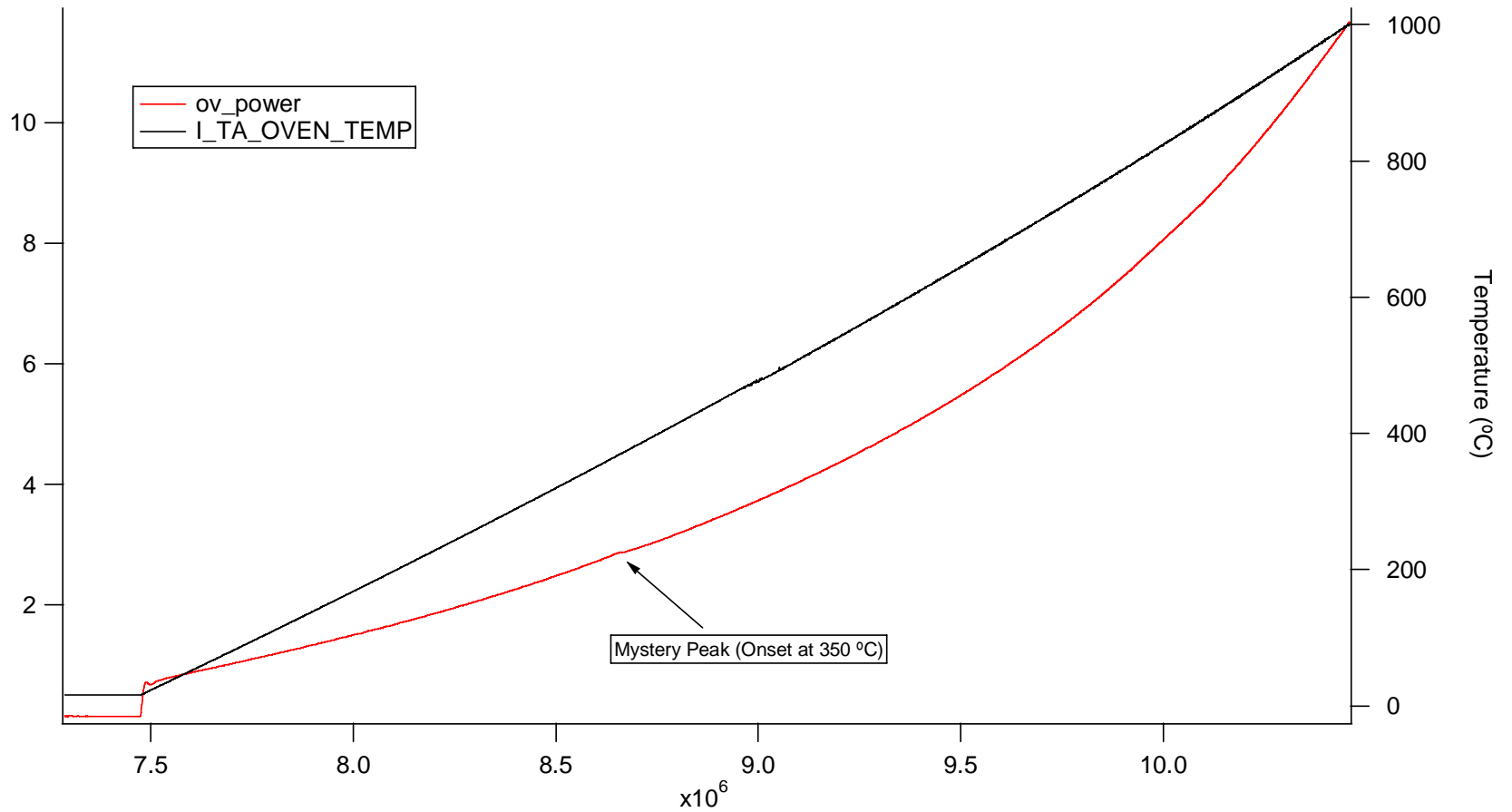


# TEGA High Temperature Run (Day 1) Dodo

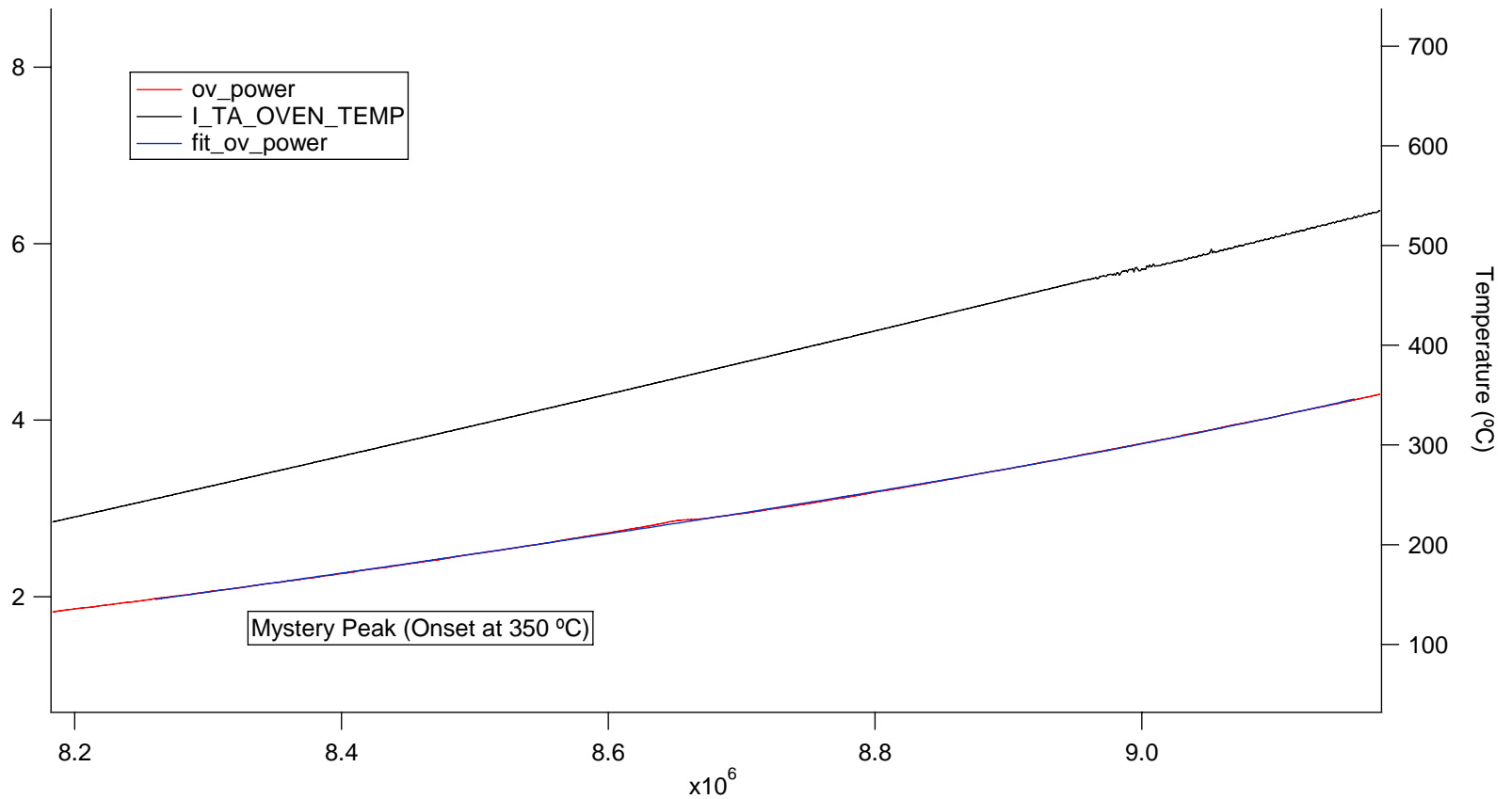


# TEGA High Temperature Rerun (Day 2)

## Dodo



# TEGA High Temperature Rerun (Day 2) Dodo



# Preliminary Interpretation

- Very little water release (surprising)
- No SO<sub>2</sub> observed, but calibration may be an issue
- No organics fragments observed
- CO<sub>2</sub> and O<sub>2</sub> prominent gases released

# Candidate Phases

## VERY Preliminary

### ➤ CO<sub>2</sub>

- Carbonates (low temperature decomposition of Fe-Mg carbonates)
- Combustion of organic

### ➤ O<sub>2</sub> (or S)

- Decomposition of Fe and/or Mn oxides
- Decomposition of sulfates (SO<sub>2</sub> peak missed in calibration)