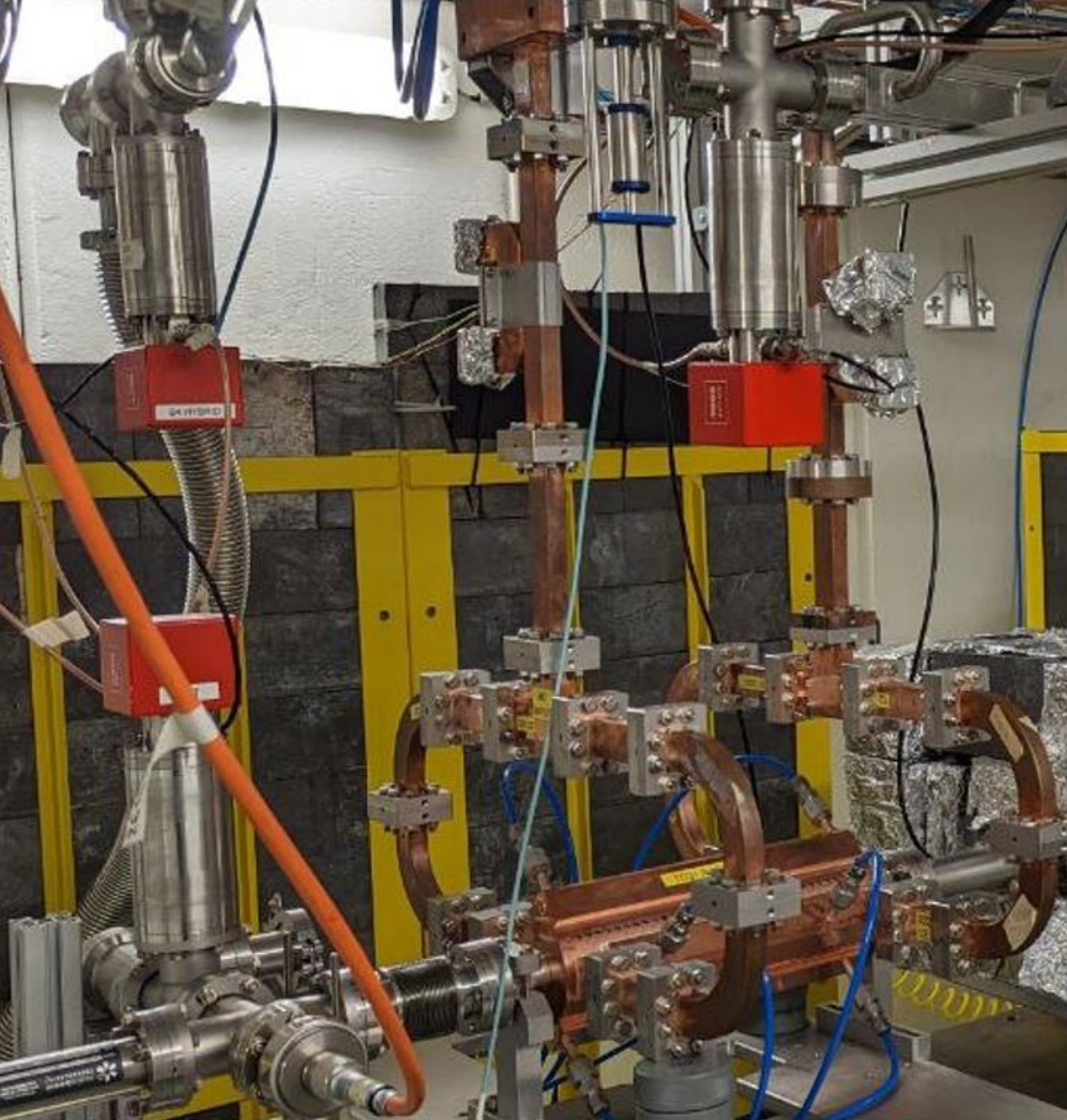




X-Box Summary

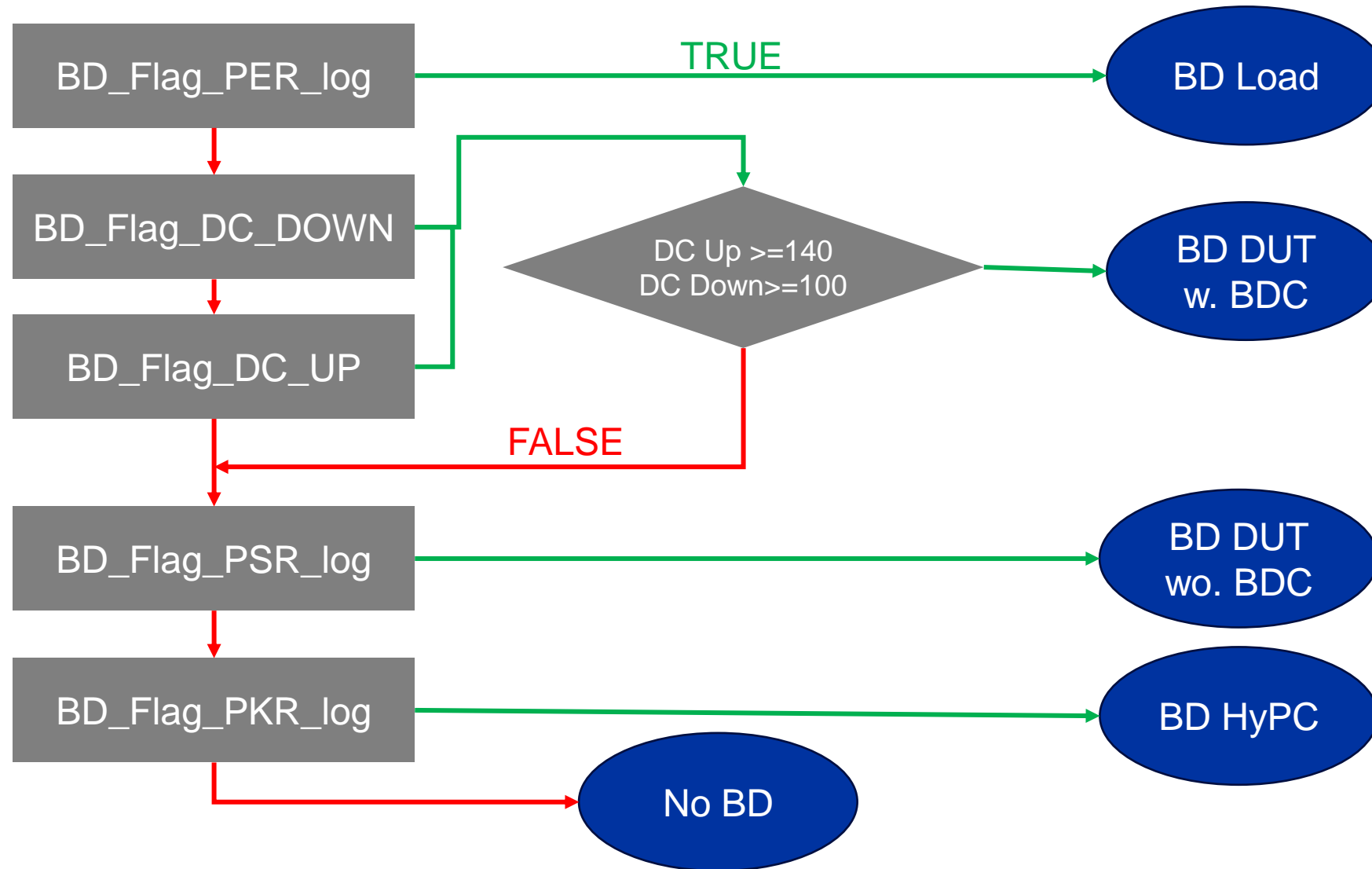
21.02.2024



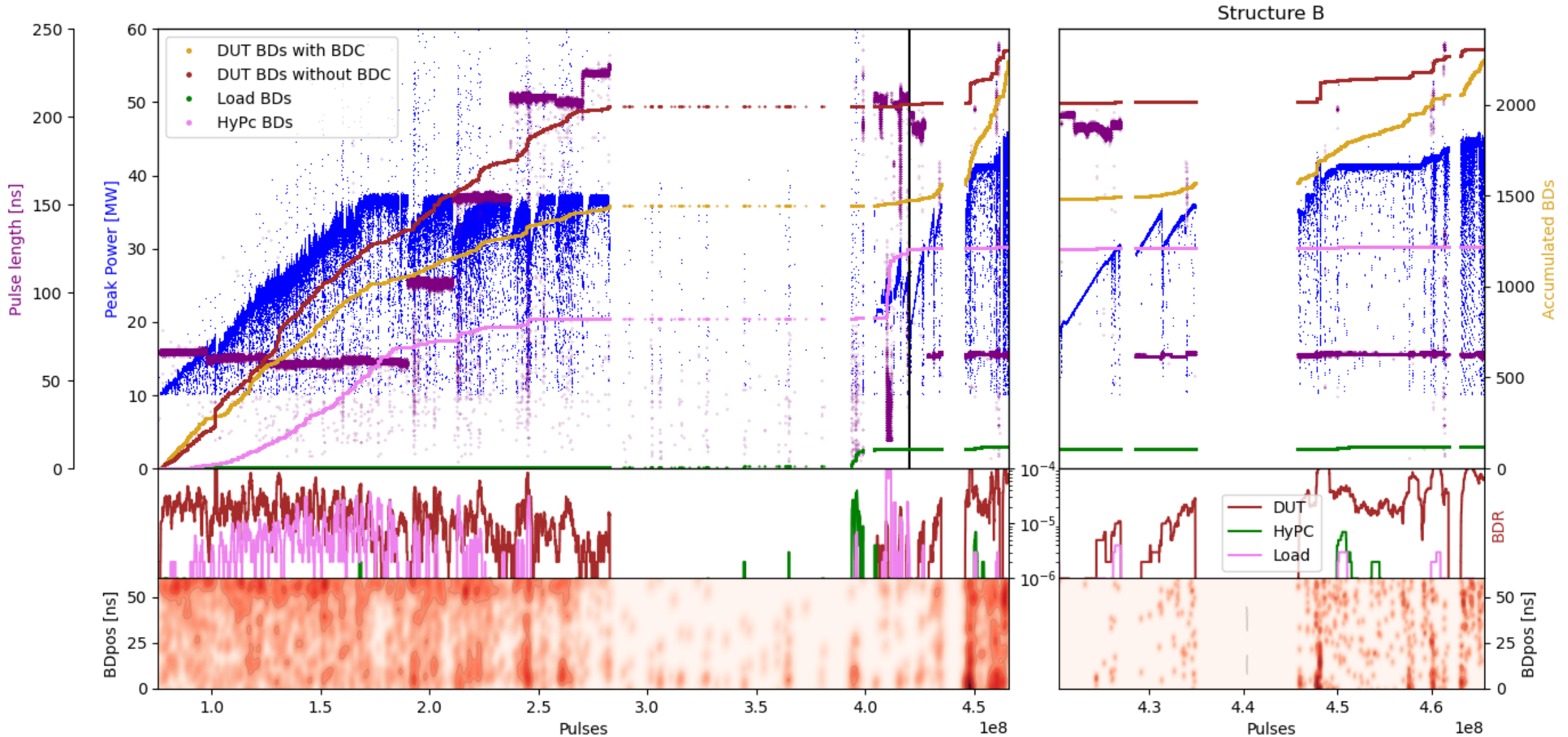
X-Box 2 TD31 N3 N4: Structure B

- **Restarted 26.01.2024**
- 100:1 ratio, all power to Structure B
- Starting power ~25 MW
- Pulse width 50ns
- Currently at 46MW

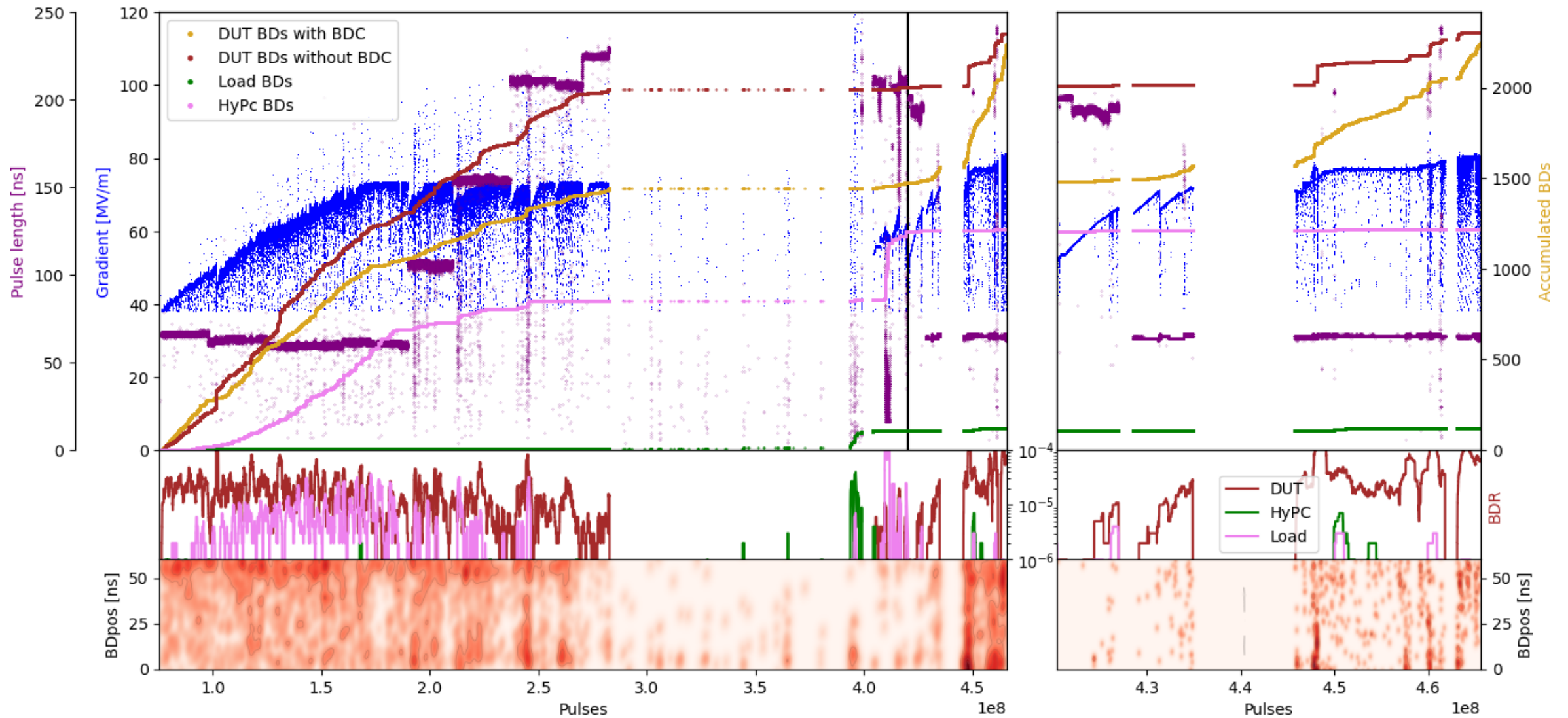
X-Box 2: Reminder on BD classification



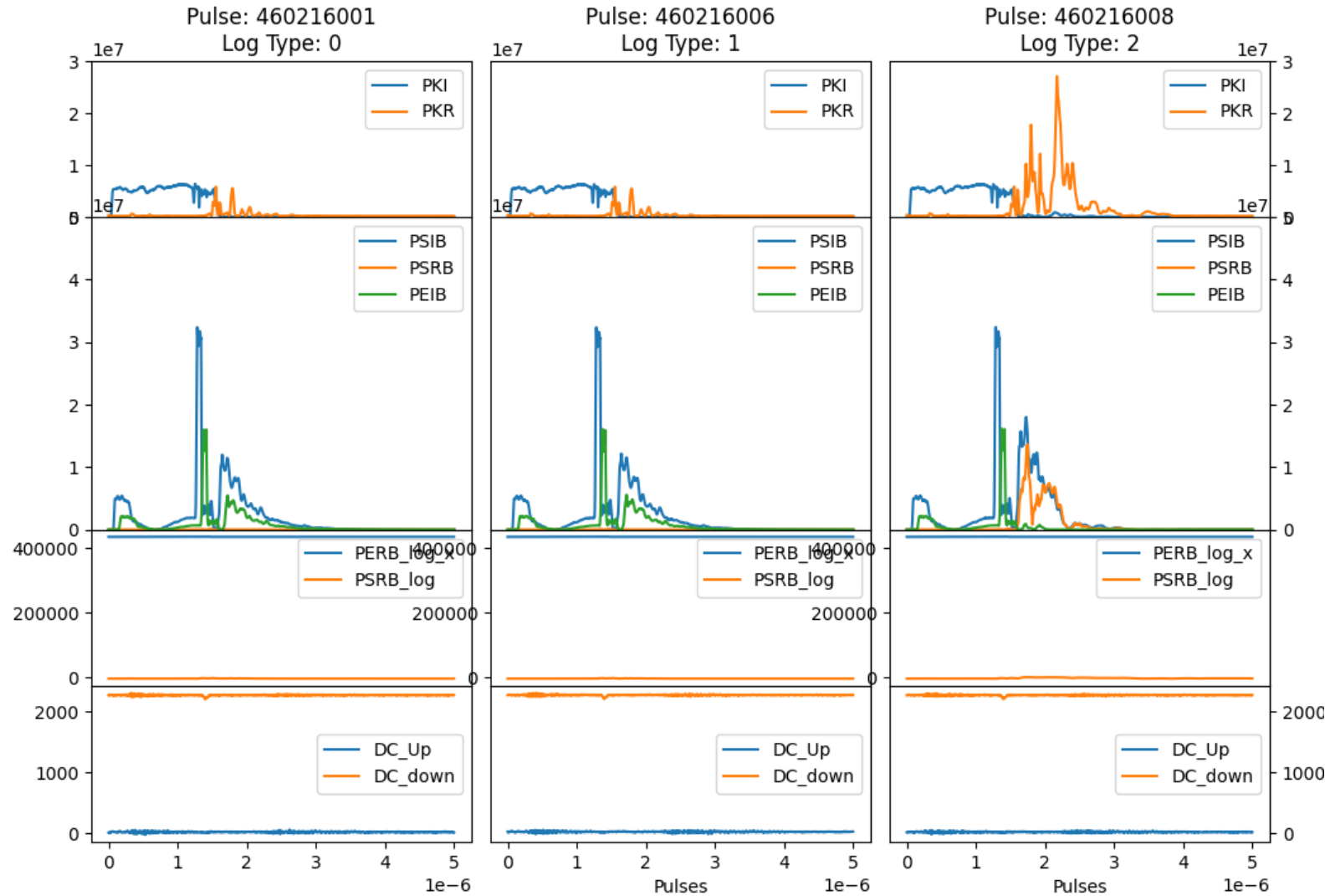
X-Box 2: TD31 N3 N4 Structure B – Peak Power



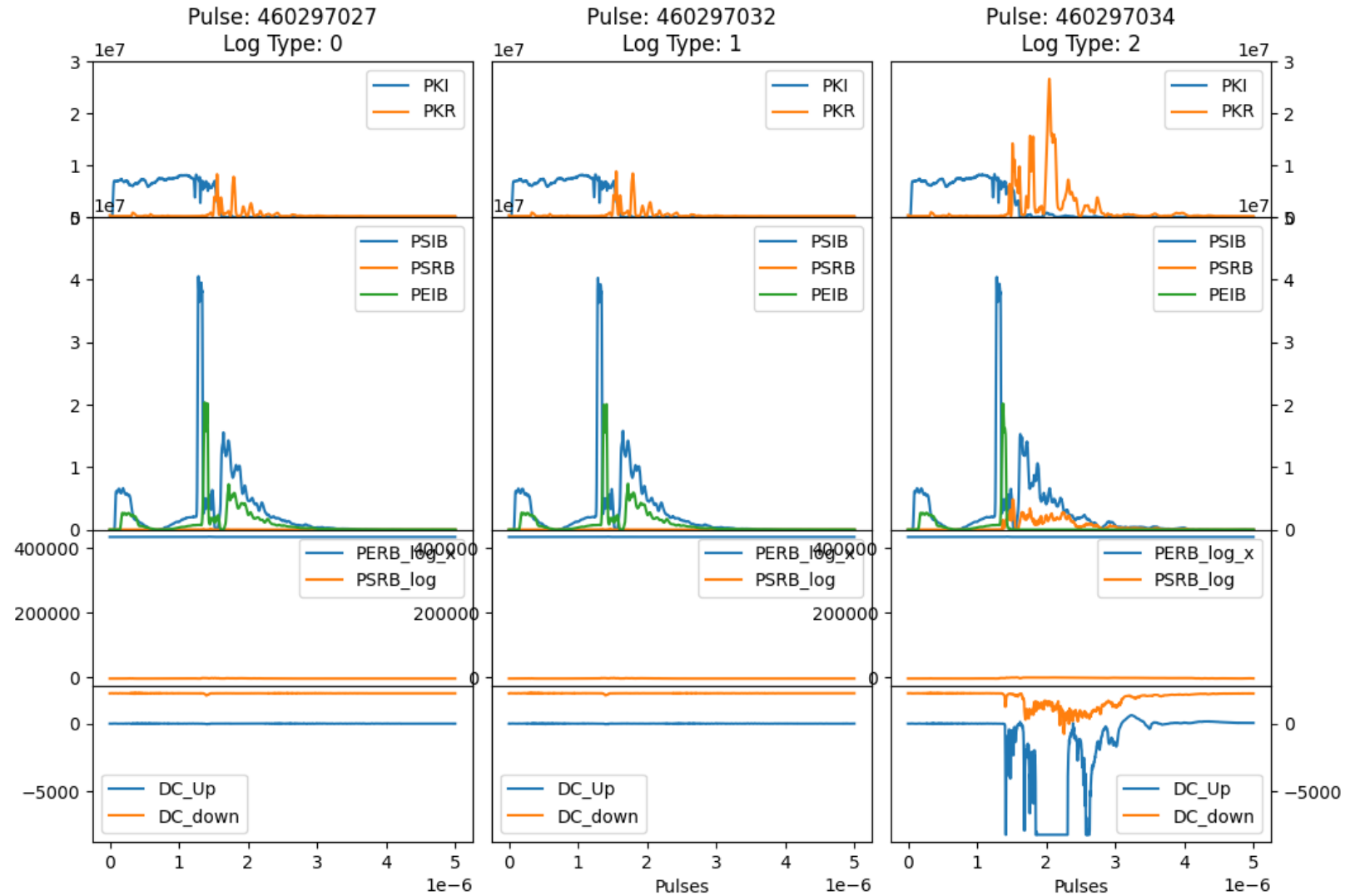
X-Box 2: TD31 N3 N4 Structure B – Gradient



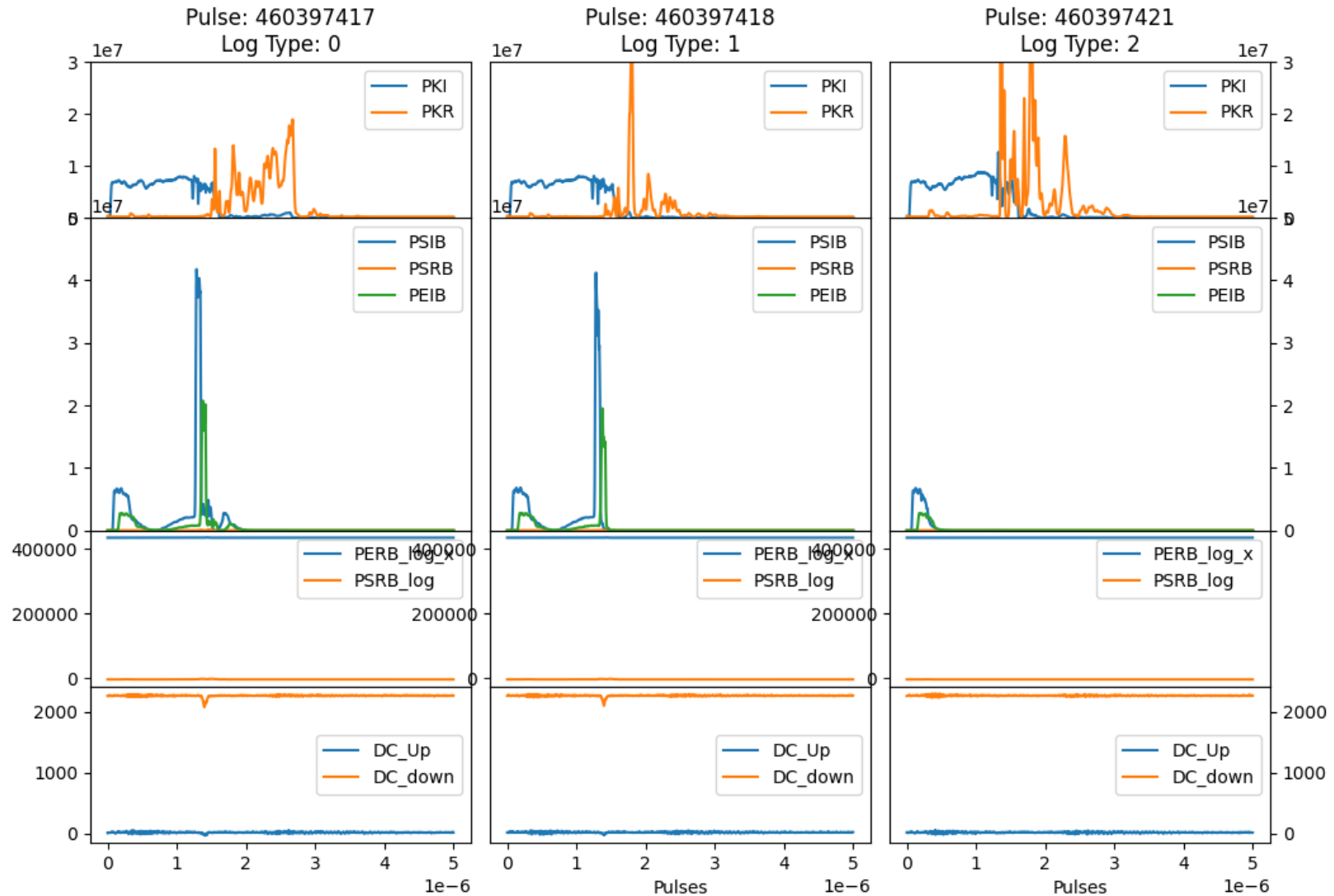
X-Box 2: 15 Feb 2024 Pulse 460216008



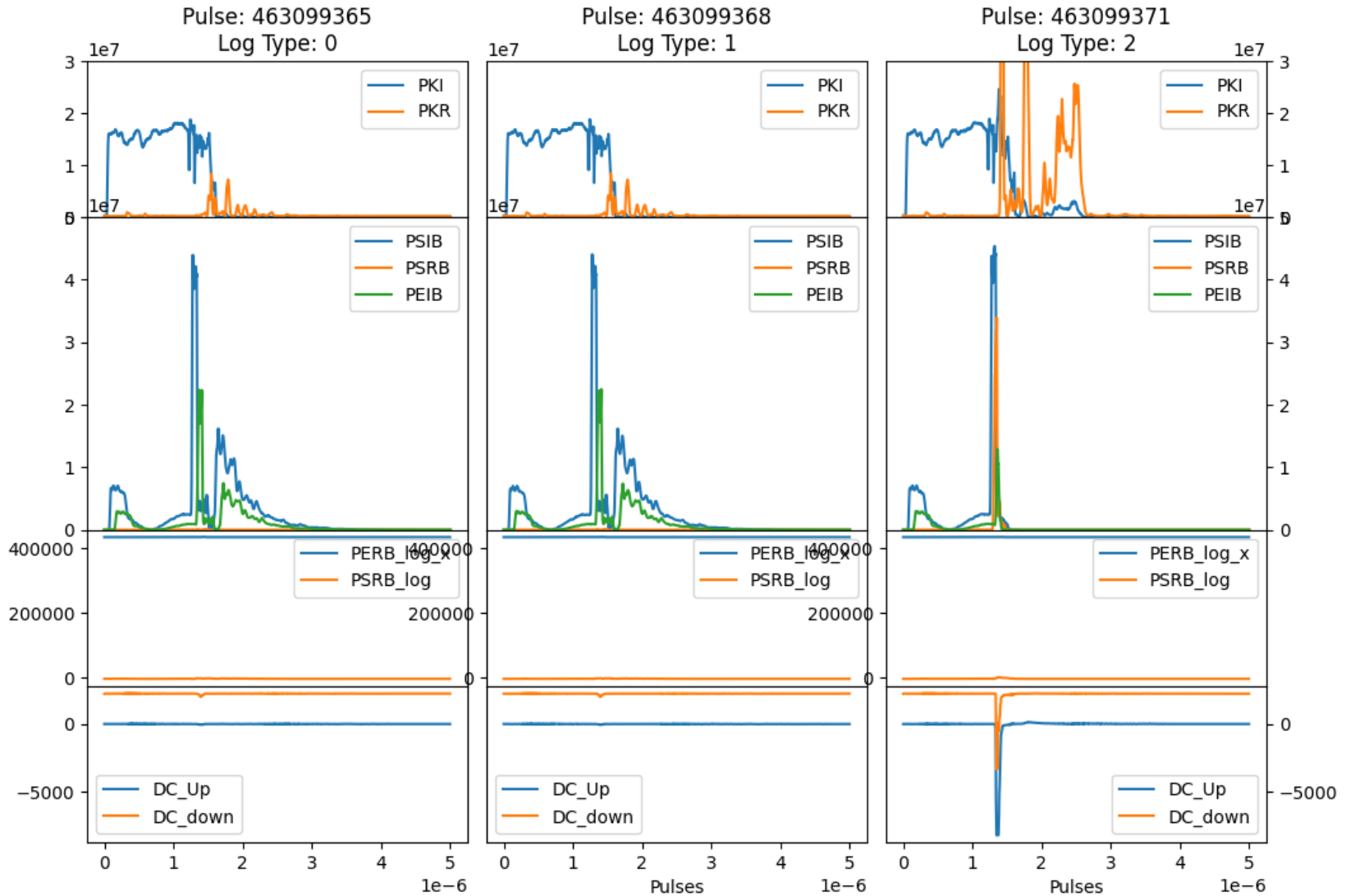
X-Box 2: 15 Feb 2024 Pulse 460297034



X-Box 2: 15 Feb 2024 Pulse 460397421

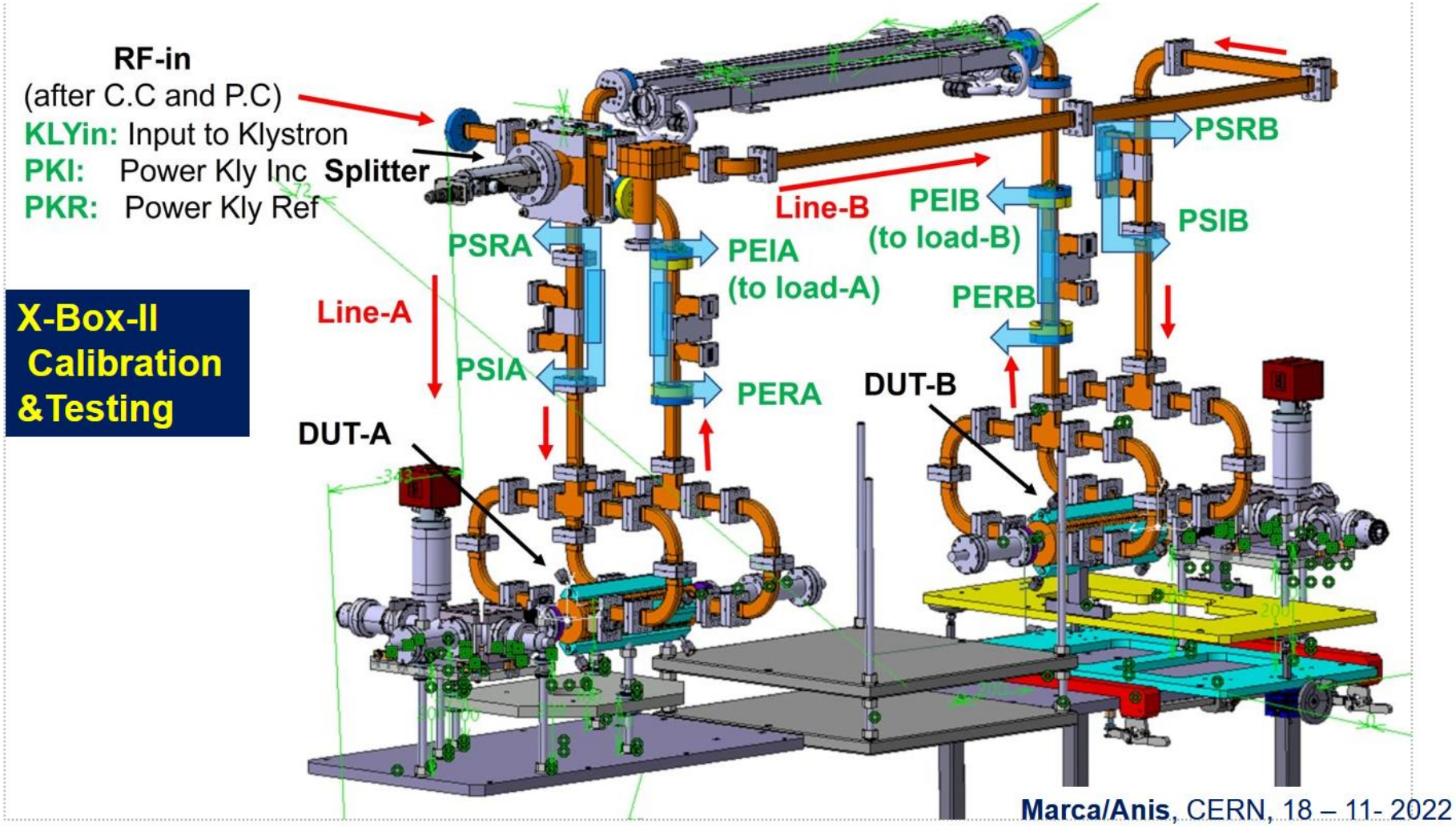


X-Box 2: 17 Feb 2024 Pulse 463099371



X-Box 2: future integration of BOC

- HPDC before CC not used
 - Not enough acquisition signals
- After BOC?

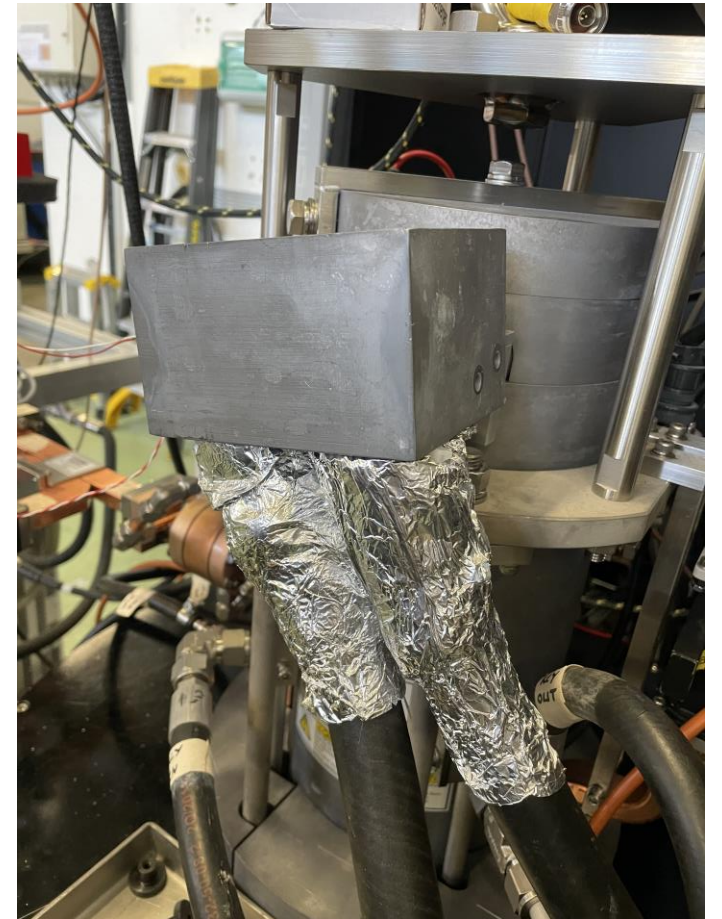
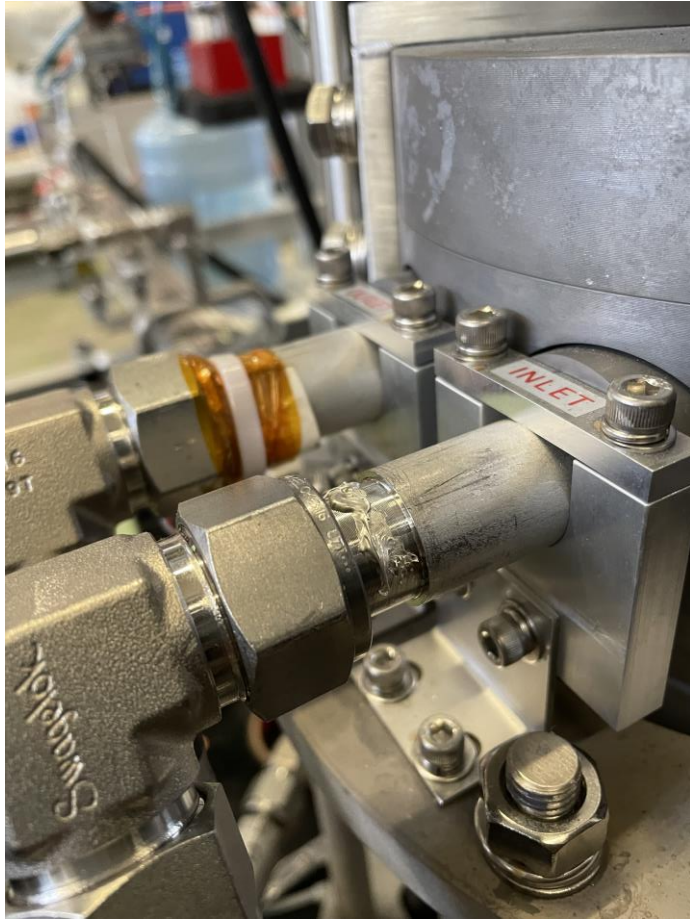


X-Box 3: High Efficiency Tubes Characterisation

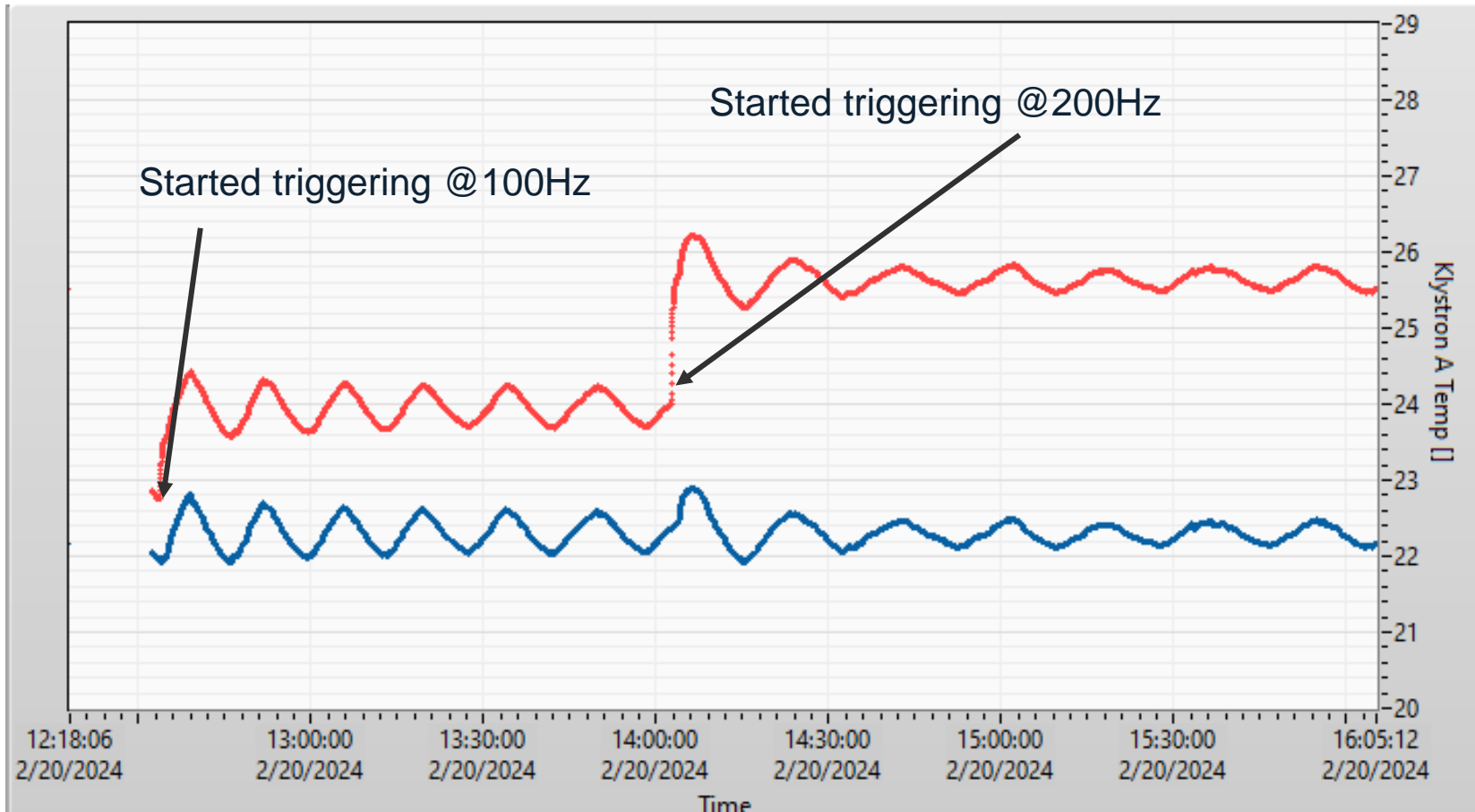


- **New campaign based on calorimetry**
 - Flow meters have arrived!
 - Temperature sensors available too
- Installation of surface temperature sensors in collector to measure power of high voltage pulse
 - We need to insulate and ensure thermic contact – lot of variations from room temperature
- Problem with signal analyser due to trigger
 - May have found a solution

X-Box 3 HEK: Collector calorimetry



X-Box 3 HEK: Collector calorimetry



Klystron A Temp= Collector input temp

Klystron B Temp= Collector output temp

Flow is 50 l/min



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