

# **Report from the week shift**

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**28/01/21 -03/02/21**

# Report from the week shift - HFO bottle

The HFO bottle is going to finish.



## Strategy during this week under this condition

- o Let the chambers in stability mode during the day and take data, while monitoring the HFO bottle status
- o Let the chambers in standby mode during the night for security;
- o Perform an HV scan (Tuesday) before restore the stability/standby mode

## Proposal (if it does not take a lot of work)

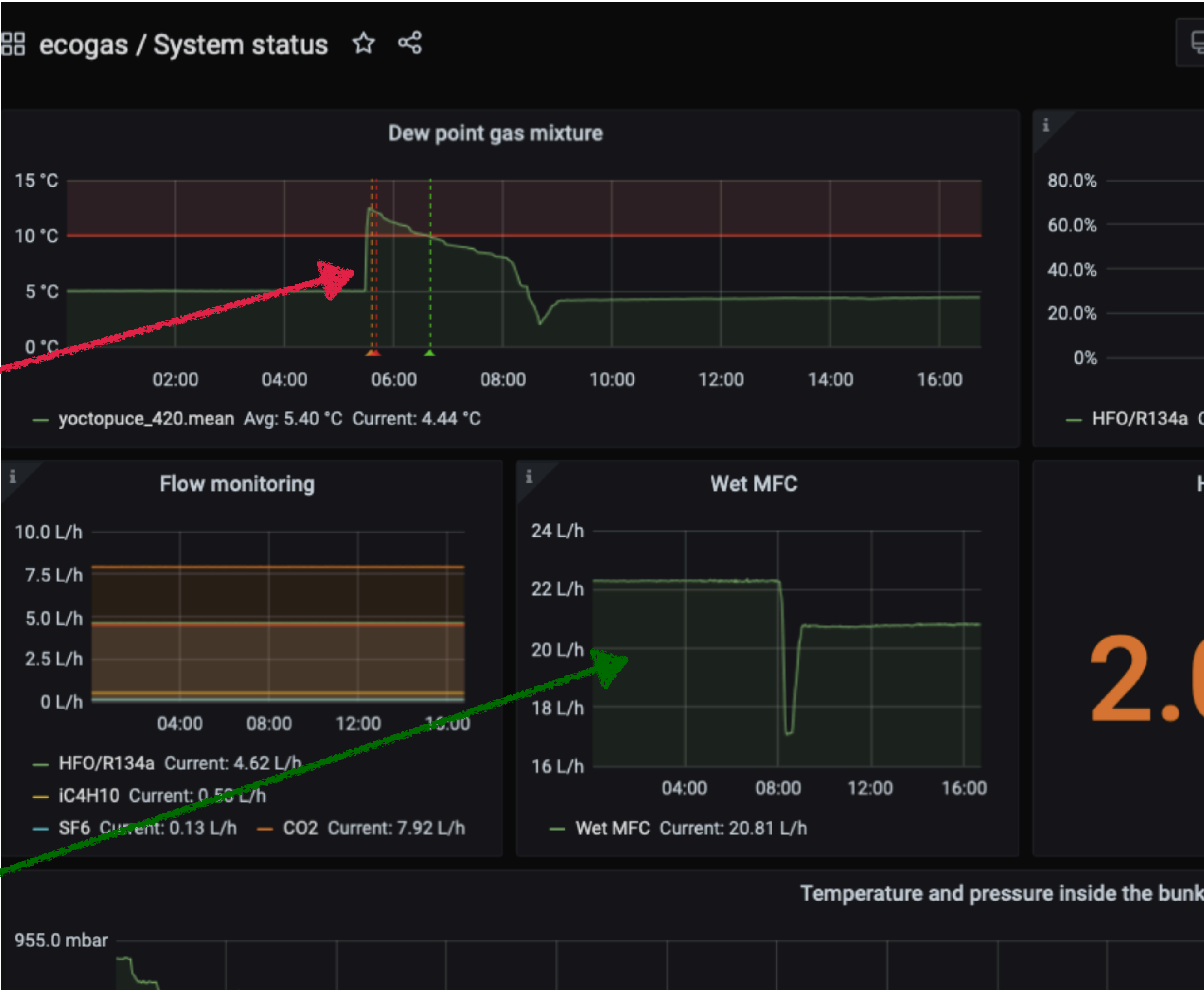
Is it possible to switch off automatically the chambers when one gas components is missed, maybe implementing this option in webdcs?

# Report from the week shift - Humidity

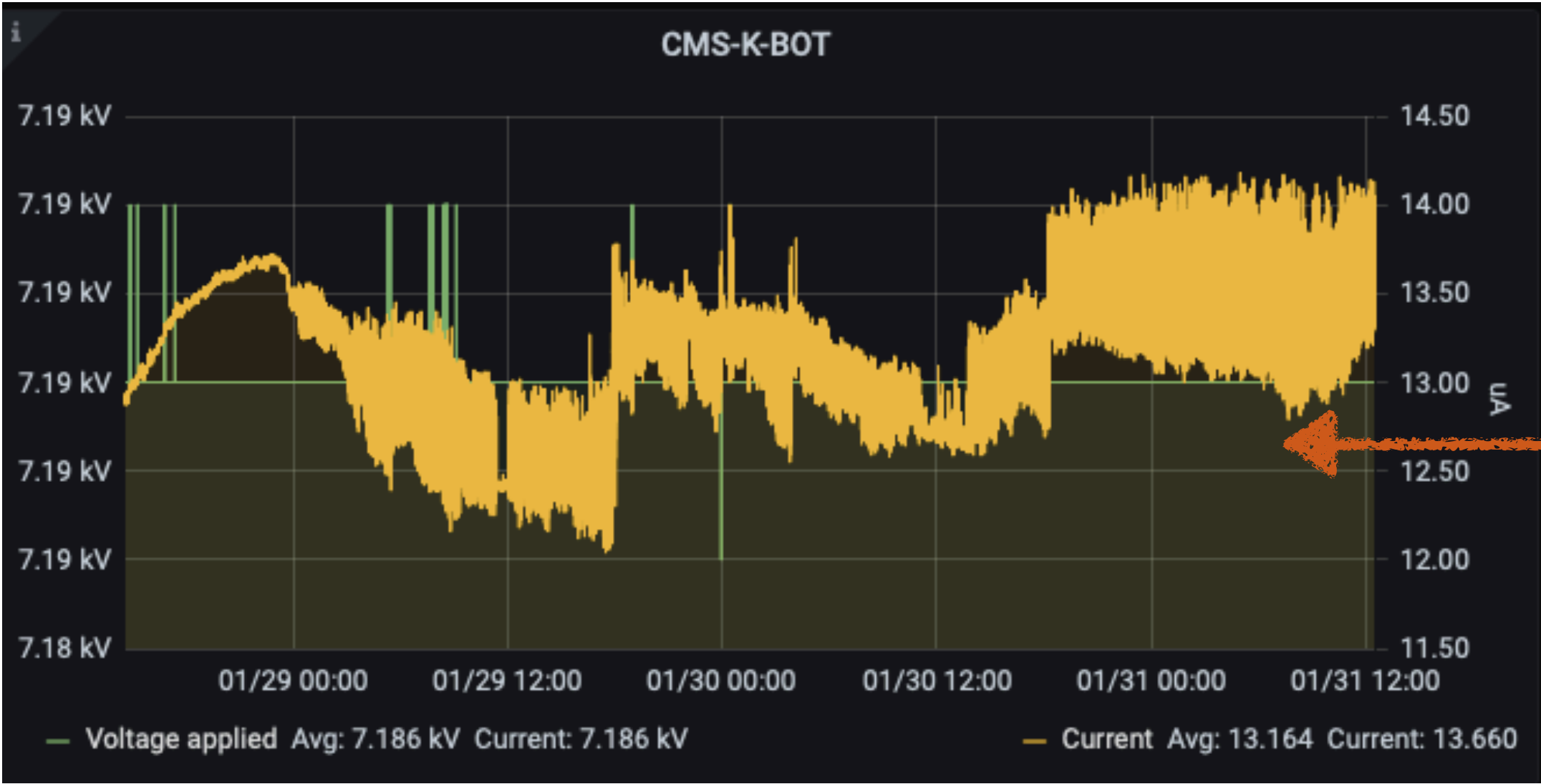
29<sup>th</sup> January

The humidity value got up quickly reaching 10 °C. The correct value has been restored at 9:00 a.m. manually. The wet MFC did not have the same shift, so maybe the problem is on the dry MFC. We have added wet MFC status in Graphana monitoring.

Added Wet MFC in Graphana monitoring



# Report from the week shift- CMS-Kodel Chambers



CMS-K-BOT seems to have some spikes.  
(Maybe connector problems?)

During these days the source has been switched On.  
GT chambers has increased their currents (reaching 100 uA), while the Kodel chambers seem to be unaffected.  
Any idea?



# Report from the week shift- HV Scan

DIP

HVscan

Stability

Hardware

Settings



HVscan - ID 000131

Scan overview

Voltages

Log file

ROOT Browser

Plots

DQM CAEN

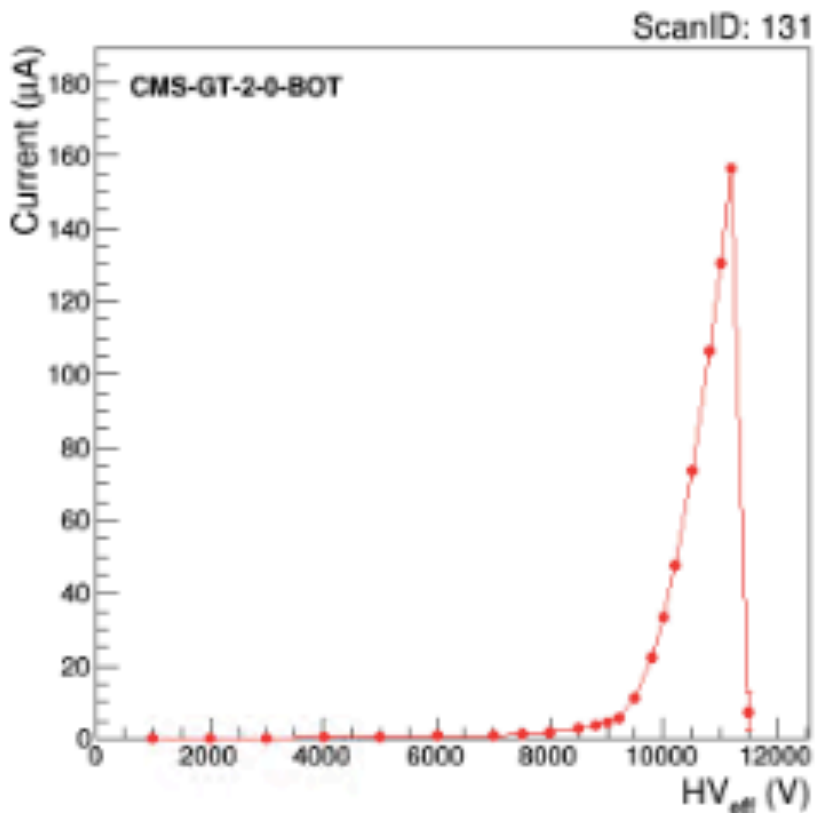
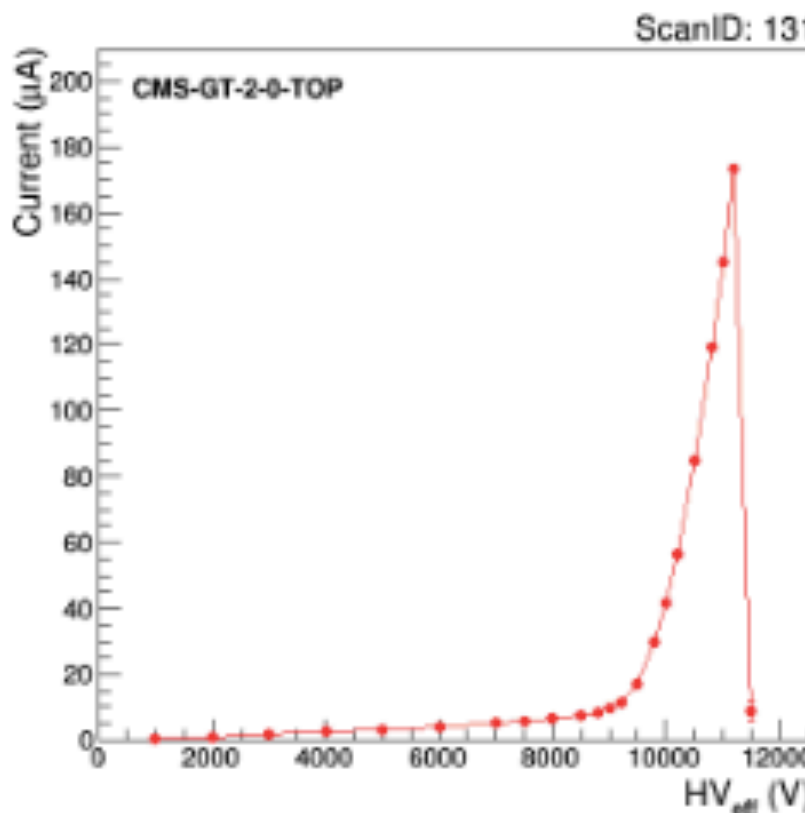
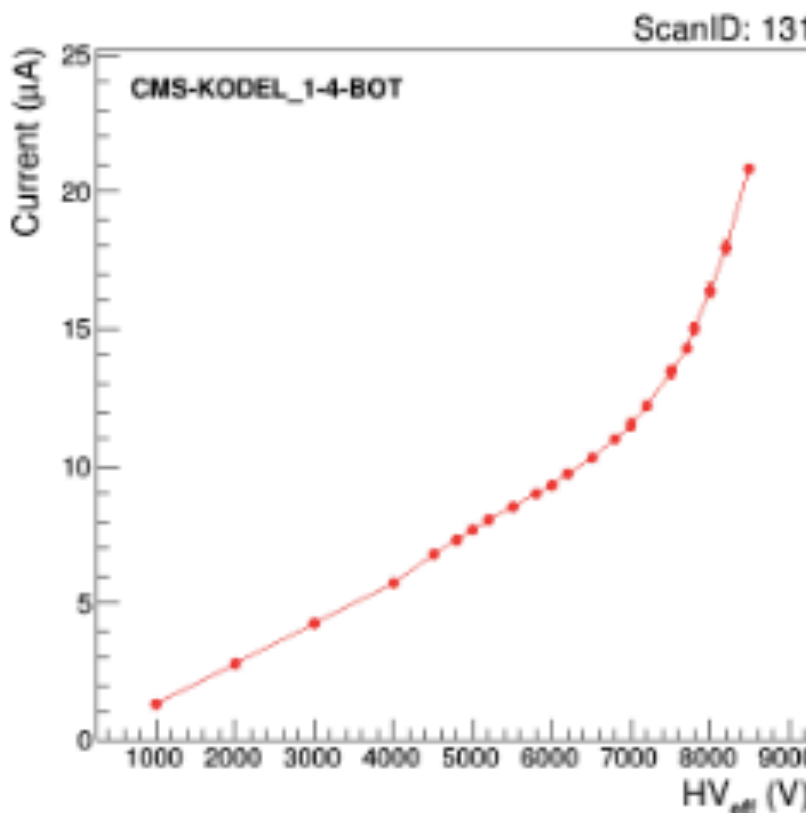
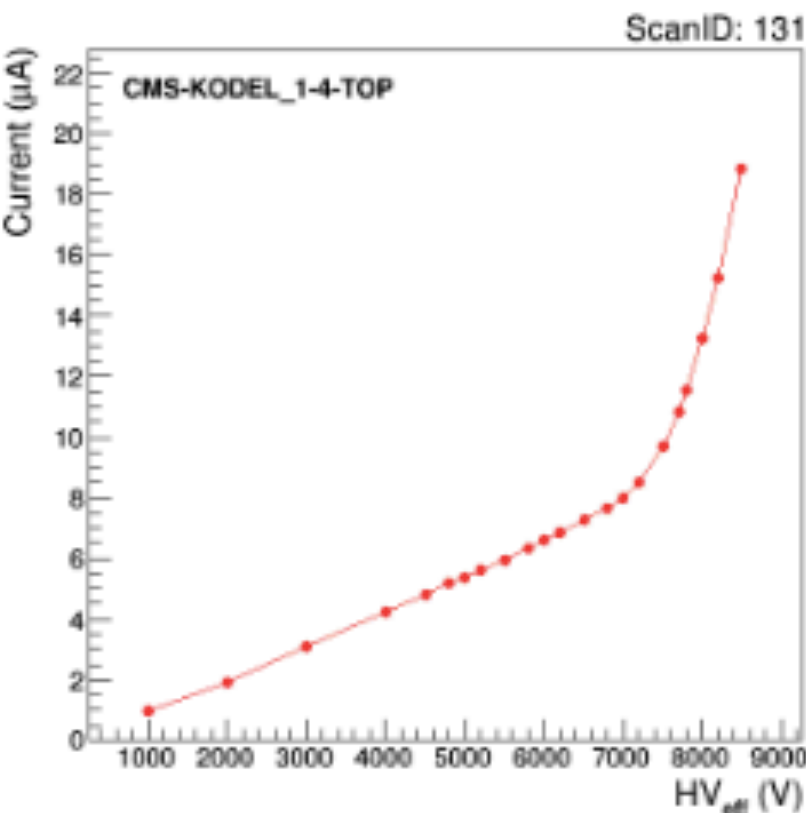
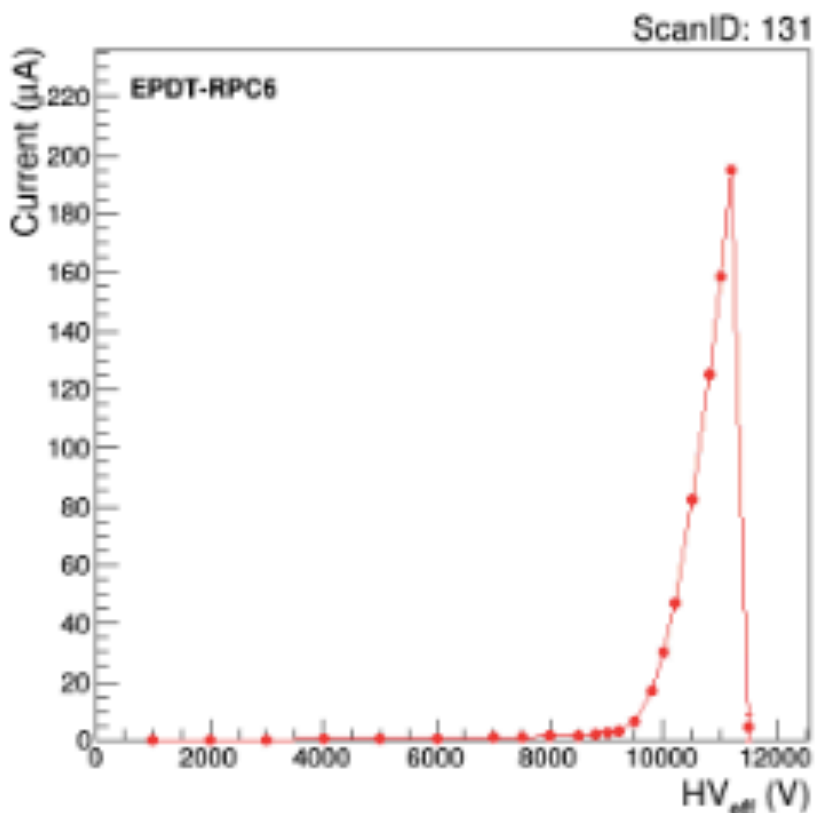
DQM DIP

HV point 1



Make/update plots

Source ON. Attenuation factor=4.6



During the HV scan, EPDT and CMS-GT chambers tripped

# Report from the week shift- Webdcs

- o I have tried to put the chambers in standby mode using webdcs, but the tension did not change. Then I have tried to stop the run, but the tension did not move anyway. I have put the high voltages at low values manually, connecting directly to the CAEN and I have stopped the stability/standby run.
- o We asked Jan and he fixed the problem (Thank you!!). The CAEN program crashed, so if we tried to move from Stability to Standby mode it was not able to change the status.
- o Also yesterday, after the HV scan, it seems that webdcs log does not change the status to stability, but the values from the CAEN were at the expected HV values and the trend in Graphana shows that the chambers were on stability mode.



**Thank you**