

ECOgas weekly meeting

Weekly shift report

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Overview



- System status
- Stability run over the past week
- Weekly integrated charge
- Source OFF scan
- Conclusions

System status

- System is currently flushing with ECO₂ gas mixture
- Aging resumed after the stop for the test beam
- Currently source is ON and aging is ongoing
- Ar measurement as soon as this HFO bottle is over (before changing it and closer to the test beam)
- News from the GIF++ facility:
 - Test beam in July and August are confirmed with the same dates (05/07 - 19/07 and 23/08 – 6/09)
 - Safety inspection of the setup was carried out before test beam and it is ok for our setup
 - ATEX and F-gases trainings still with unknown dates

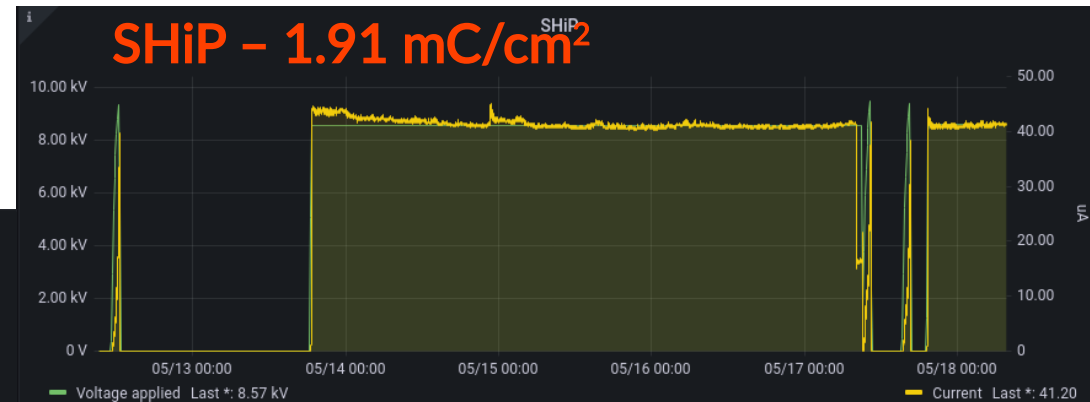
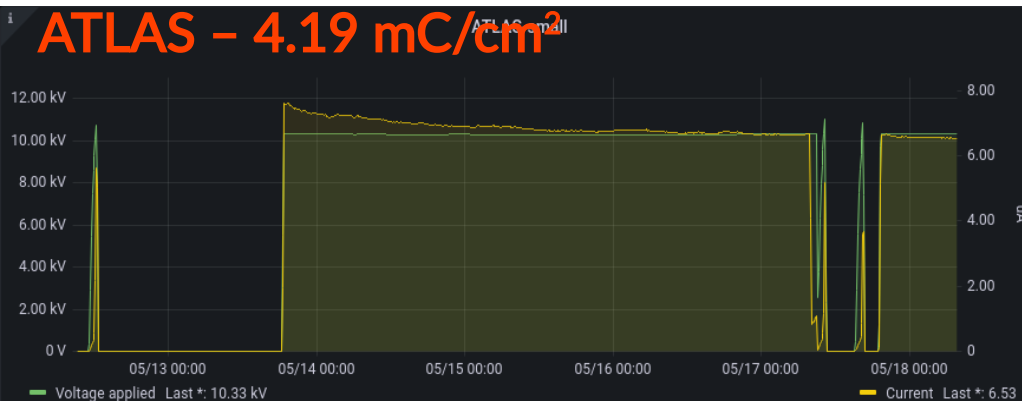
Stability and source off runs



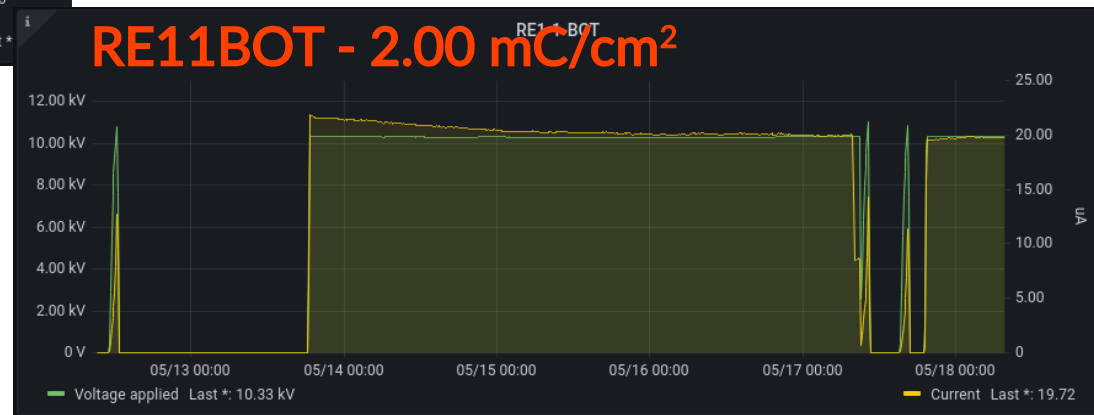
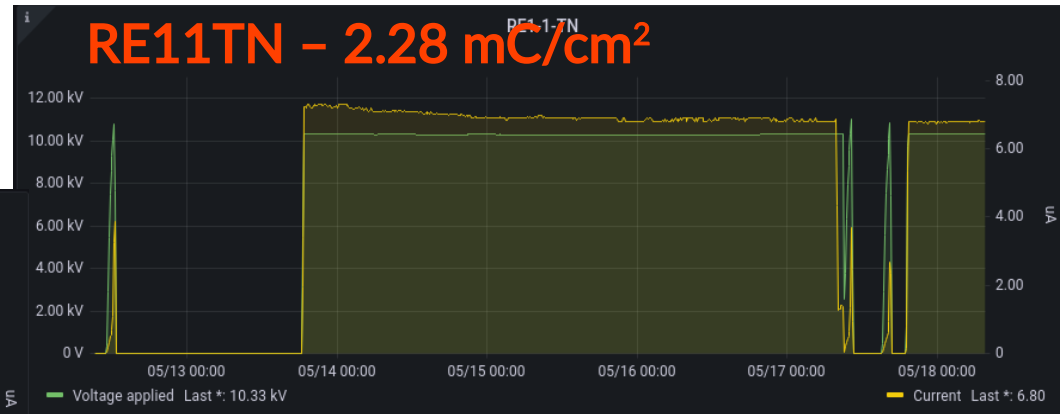
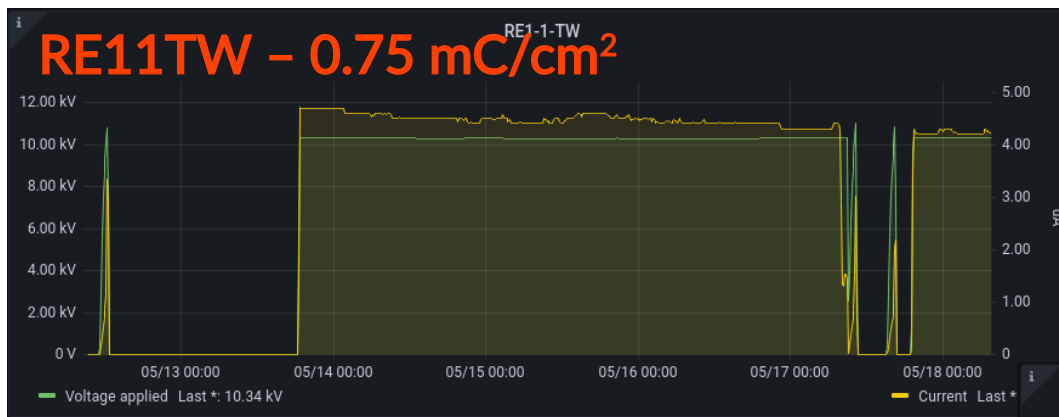
- Stability run id167: stopped due to source off on wednesday
- Stability run id168: started yesterday after source off and still ongoing

- Source off scan id478: before restarting irradiation
- Source off scan id479: yesterday morning as soon as source was off
- Source off scan id480: yesterday afternoon

Stability results - 1



Stability results - 2

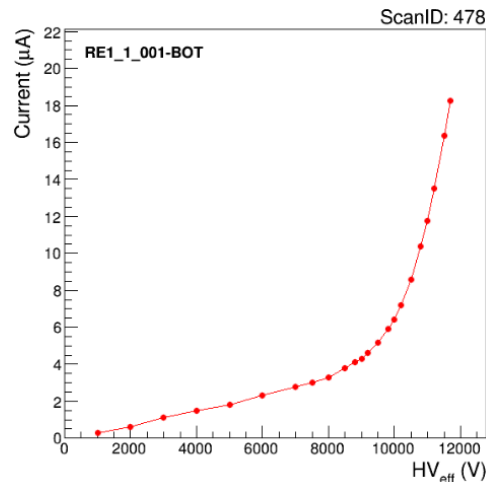
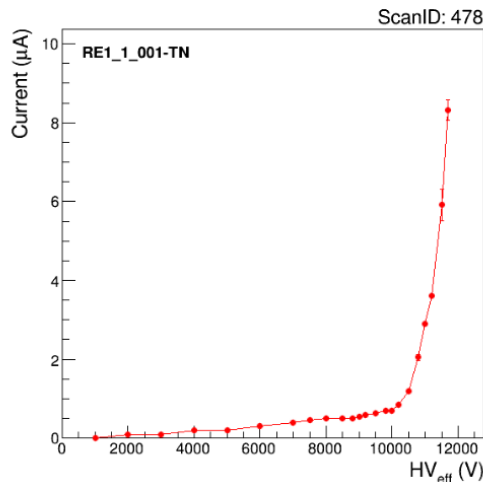
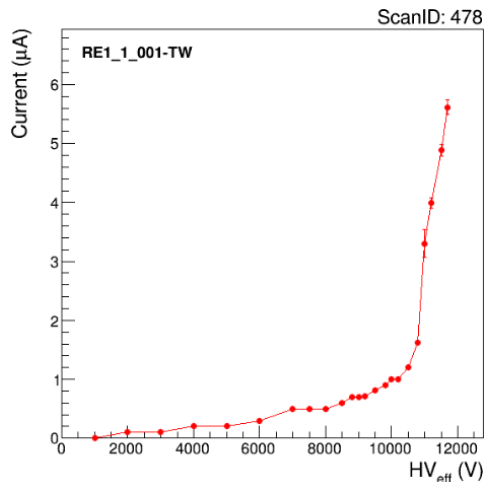


Source off scans - comparison

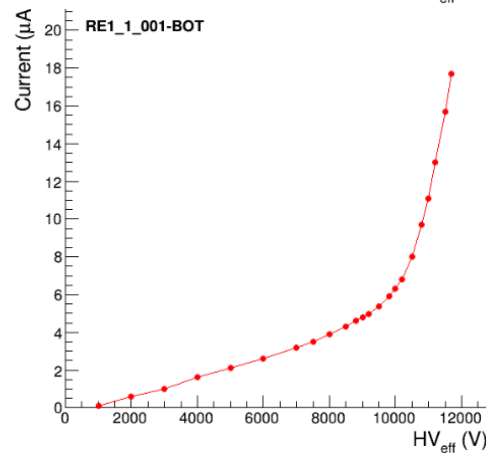
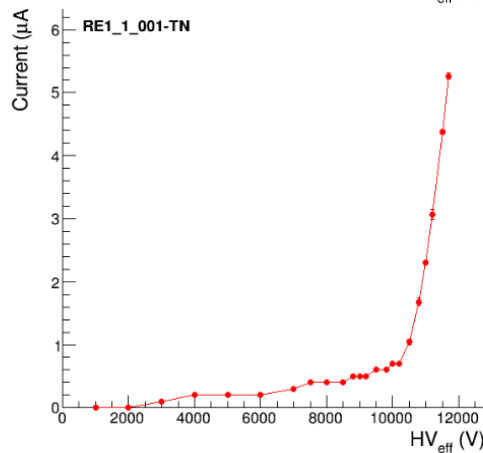
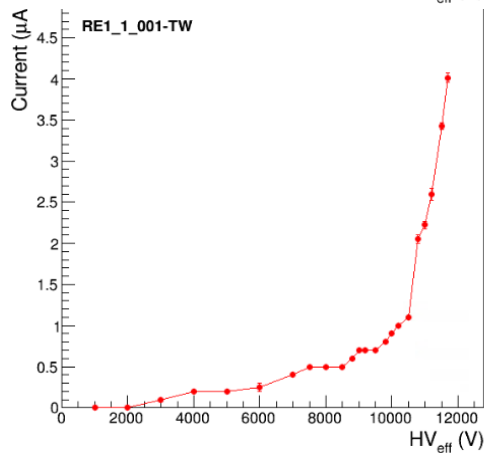
- Scans after RPCs off for some time (two weeks for test beam) vs after few days of irradiation

RE11

Before



After

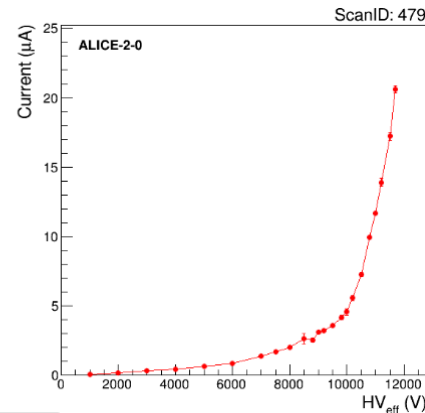
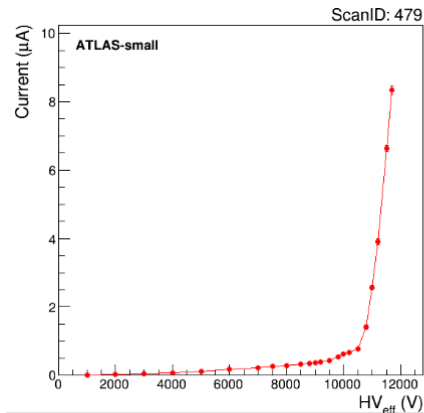
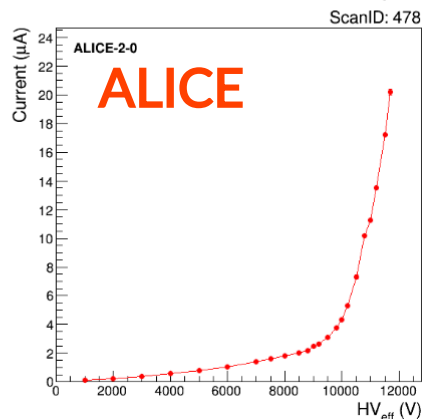
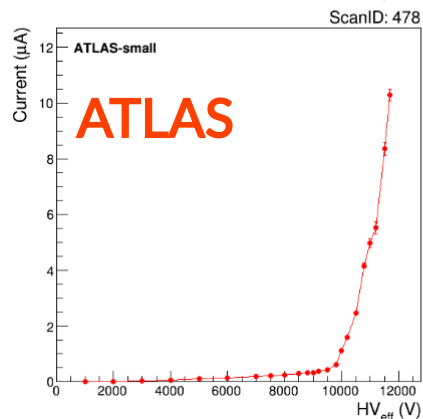
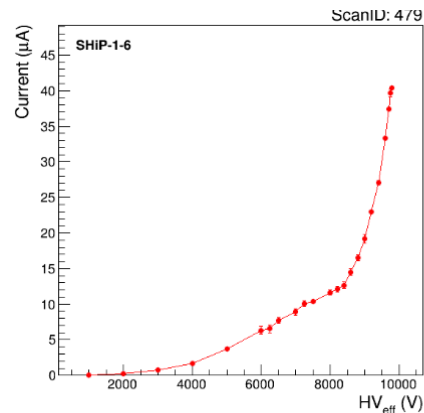
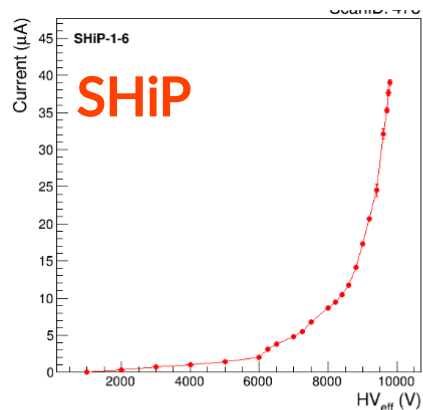


Source off scans - comparison

- Scans after RPCs off for some time (two weeks for test beam) vs after few days of irradiation

Before

After



Conclusion

- Good restart of aging, generally lower currents (most probably due to a setup that was placed back in front of our trolleys, ATLAS sMDT)
- Any news on humidity measurements saved on pc?
- EPDT chamber still not included in aging, news on the old chamber?
- HFO total used liters ~ 2000 L
- Stability with ID 168 still ongoing now, to be continued by the next shifter