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| TNC Testing Form (REV1) | |
| Leaf on the Tree | Power Consumption |
| Device Under Test (Testing Tree Number): | 1.2.3.1 |
| Date: | 1/11/20 |
| Person(s) Conducting Experiment: | Kobe Keopraseuth |
| Signature: |  |
| Experiment Purpose: | The purpose of this experiment was to measure the power consumed by the PTT circuit when turned on. Also, to see how stable the MOSFET’s internal temperature is. |
| Experiment Procedure: | I used the soldered circuit on a perf board with 3.3V supplied to gate from my microcontroller and 15 V DC supply with a 10k ohm pull-up resistor connected to drain. Used a multimeter to measure current and voltage across drain to source. |
| Equipment Settings / Software Settings (w Revision): | Used a stm32 for the 3.3V DC supply and an external 15 V supply. Used a multimeter to measure current and voltage across drain to source. |
| Testing Diagram / Picture: | **Diagram  Description automatically generated** |
| Data Points: | A picture containing person, meter, holding, table  Description automatically generated  A picture containing person  Description automatically generated |
| Pass / Fail: | Pass |
| Interpreted Notes: | The calculated Power consumption was 4.16 uW, which barely consumes any power. After leaving the MOSFET on for some time, it not necessary to measure the temperature considering that the MOSFET really did not heat up. |
| Recommendations for Modifications: | None |