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| TNC Testing Form (REV1) | |
| Leaf on the Tree | PTT Circuit |
| Device Under Test (Testing Tree Number): | 1.2.1 |
| Date: | 11/1/20 |
| Person(s) Conducting Experiment: | Kobe Keopraseuth |
| Signature: |  |
| Experiment Purpose: | The purpose of this experiment is to verify that the PTT circuit can pull 15V ,going into the drain, to 0 V when the it is turned on. |
| Experiment Procedure: | We will implement the circuit shown below and input 15 V with a pull-up resistor, to act as the radio’s 15 V. Then we will use a tactile switch to switch the PTT circuit on and measure the voltage across the drain to source to see. |
| Equipment Settings / Software Settings (w Revision): | We use a breadboard to hook up the circuit shown below and a dc power supply for the 15 V. We used LTspice for designing the circuit. We use 3.3V reference to supply to the gate. Also, we will use a voltmeter to measure the drain to source voltage. |
| Testing Diagram / Picture: |  |
| Data Points: | A picture containing person  Description automatically generated |
| Pass / Fail: | Pass |
| Interpreted Notes: | As shown, when a high signal is inputted into the circuit, then it is able to decrease the 15V at the drain down to 3.2 mV which very close to 0 V |
| Recommendations for Modifications: | None |