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| TNC Testing Form (REV1) | |
| Leaf on the Tree | Bit Transitions |
| Device Under Test (Testing Tree Number): | 2.3.2.1.4 |
| Date: | 10/31/2020 |
| Person(s) Conducting Experiment: | David Cain |
| Signature: |  |
| Experiment Purpose: | The purpose of this experiment is to ensure that the waveforms of our output do not suffer due to bit transitions. |
| Experiment Procedure: | Force the TNC into a debugging broadcast mode, then use the Digilent  discovery 2 to measure the waveform frequency at many points. |
| Equipment Settings / Software Settings (w Revision): | The Digilent will be set to record the waveform and an optical inspection will be used. |
| Testing Diagram / Picture: |  |
| Data Points: |  |
| Pass / Fail: | Fail |
| Interpreted Notes: | There is an obvious phase shift when the bits are transitioning. |
| Recommendations for Modifications: | Correct code that generates the output to calculate the next expected starting point of each bit. |