



March 16, 2021

Subject: FCC Part 15C and ISSED Class 2 PERMISSIVE CHANGE for Neptune Technology Group Inc, Model MRX920v4, FCC ID: P2SMRXV4, IC: 4171B-MRXV4

The purpose of this report is to file for a Class II permissive change for the following reasons:

Two RF SPDT relays (K1 & K2) were replaced with two high linearity semiconductor RF switches (SKY134929-001, U12 and U13). Resistor R45 was changed from a pull-down to a pull-up resistor. An unused directional coupler (CPL1) and an unused bias tee (T1) were also removed from the transmit/receive path of the circuitry. The support circuitry for the directional coupler was also removed and an ESD diode D8 was added, but not to the transmit path.

Due to the changes above, the equipment was re-evaluated for continued compliance with Part 15.247, 15.209 and RSS-247 requirements. Based on the changes above the following tests were performed:

- Intentional Radiated emissions Part 15.247(d)
- Spurious Radiated emissions Part 15.209
- Bandwidth measurements
- Output Power measurements

No other hardware changes have been made to the original product. No additional changes were made to the transmitter circuitry of the radio and the changes described in this filing result in the same RF characteristics as in the original filing. All other original test results continue to be representative of the equipment.

There is no increase in the output power, no RF Exposure condition changed, and the device remains in the same equipment class. There are no other changes to the device that indicate a need for a new FCC ID.

The test report shows that the product continues to meet the applicable subpart for CFR 47, Part 15.207, 15.209, and 15.247.

See the test report and additional submittal exhibits for details.

Best Regards,

Sandi McEnery
Agent for Neptune Technology Group Inc.