



Testing Tomorrow's Technology

October 17, 2023

Subject: FCC Part 15C Class 2 Permissive Change for Neptune Technology Group, Inc., Model R900, FCC ID: P2SR900CE

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

1. Neptune Technology Group, Inc is adding an additional Pit Antenna, internally referred to as the Plus Antenna. Here are the specs:

Antenna Type: Pit Antenna (Proprietary Omni Directional design)
Antenna Gain: 6.0 dBi
Impedance: 50 ohm
Manufacturer: Skywave Antennas

2. The physical enclosure of the EUT has been changed, however the enclosure material remains the same. The main PCB assembly that includes the 900 MHz transmitter circuitry and the cellular module and main battery + boost battery will all remain unchanged. Just reoriented to fit inside the new enclosure.
3. The internal Loop Antenna originally on the R900 has been removed. The RF switch that switches between the two antenna paths will be permanently set for the external antenna in the firmware.

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

- Intentional Radiated emissions Part 15.247(d)/RSS-247
- Spurious Radiated emissions Part 15.209/RSS-247

No other hardware changes have been made to the original product nor were there any additional changes to the transmitter circuitry of the radio. The changes described in this filing result in the same RF characteristics as in the original filing and all other original test results continue to be representative of the equipment. There is no increase in the output power; however, the antenna gain has increased. Therefore, the RF Exposure condition changed and an updated MPE evaluation exhibit has been included in the report submittal. The device remains the same equipment class and 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 of CFR 47, Part 15.207, 15.209, and 15.247. See the test report and additional submittal exhibits for details.

Best Regards,

George yang - Agent for Neptune Technology Group Inc.

3505 Francis Circle, Alpharetta, GA 30004
PH: 770-740-0717 Fax: 770-740-1508
www.ustech-lab.com