

#### **EXHIBIT 4    CFR 47, Part 2.1033, c(4)**

##### **TYPE OF EMISSION**

The SPECTRUM II radio is employed to process digital information of various types. Voice, data, video, and many other information types can be encoded and transmitted across this radio system.

The necessary bandwidth is 10.0MHz.

The modulation of the radio is 4FSK and the nature of the modulation signal is "two or more channels containing quantized or digital information".

Thus, the emission designator can be stated as **10M0F7W**

The 10M0 portion of the designator is derived as follows

10M0 = 10.0MHz necessary bandwidth [CFR47 Part 202(a)]

The F7W portion of the designator is derived as follows

F = Frequency Modulation [CFR47 Part 2.201(c)]

7 = the nature of the modulation [CFR47 Part 2.201(d)]

W = the type of information transmitted [CFR47 Part 2.201(e)]

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**EXHIBIT 5    CFR 47, Part 2.1033, c(5)**

**FREQUENCY RANGE**

The frequency range of this product is from **27,500 MHz to 28,350 MHz.**

27,700 MHz to 27,800 MHz for Tx

28,150 MHz to 28,250 MHz for Rx.

**EXHIBIT 6    CFR 47, Part 2.1033, c(6)**

**RANGE OF OPERATING POWER VALUES**

The operating power ranges from 0.040 Watts (16dBm) to 0.250 Watts (24dBm).

**EXHIBIT 7     CFR 47, Part 2.1033, c(7)**

**FCC RULES ON THE MAXIMUM POWER RATING**

FCC CFR 47, Part 101.113: Transmitter power limitations, applicable to this product, defines the maximum power rating as 55dBW / 85dBm.

**EXHIBIT 8    CFR 47, Part 2.1033, c(8)**

**THE DC POWER INPUT**

For normal operation over the power range, the DC voltages applied to and the DC currents into several elements of the final radio frequency amplifying device are

+8.4 VDC @ 3.75 A max.,  
-8.0 VDC @ 0.25 A max., and,  
+8.4 VDC Switched @ 2.2 A max.