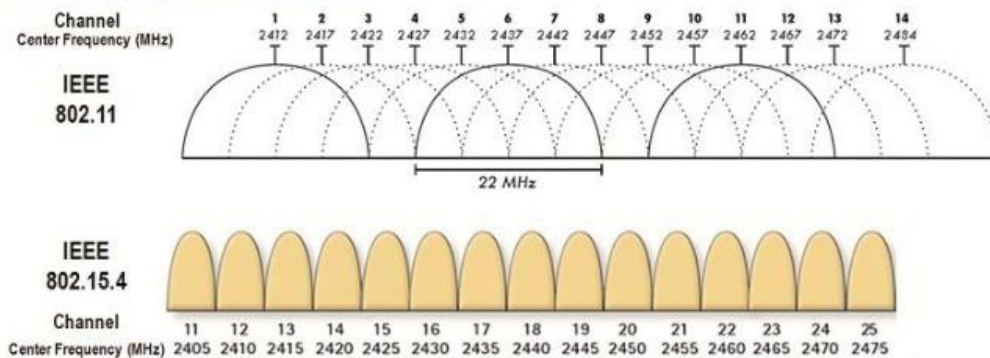


## **The MotionMonitor xGen Hardware Guide: Configuring Xsens RF Channels**

### **Q: How do you select the appropriate wireless communication for Xsens?**

Typically, a WiFi analyzer is useful in choosing a radio frequency channel over which an Xsens system will communicate. The diagram below provides an overview of the 2.4GHz channel spectrum that Xsens Awinda station is based on (bottom row), and how WiFi channels use this spectrum (top row).

#### **6.5.2 Choosing a Radio Channel**



It is best to choose a channel (from 11 to 25) for Xsens communication that is not covered by WiFi use. For example, if a WiFi analyzer indicated that 50% of Channel 1 is already in use, IEEE 802.15.4 channels 11, 12, 13, or 14 would not be good to choose for Xsens communication. Typically, channels 11, 15, 20, and 25 are not used by WiFi.

Wireless communication is subject to change in different environments. Radio channel selections may have to be changed if a system is used portably and data is collected in different spaces. It is recommended that channels are tested for each environment to determine which allow for the least amount of drop outs.