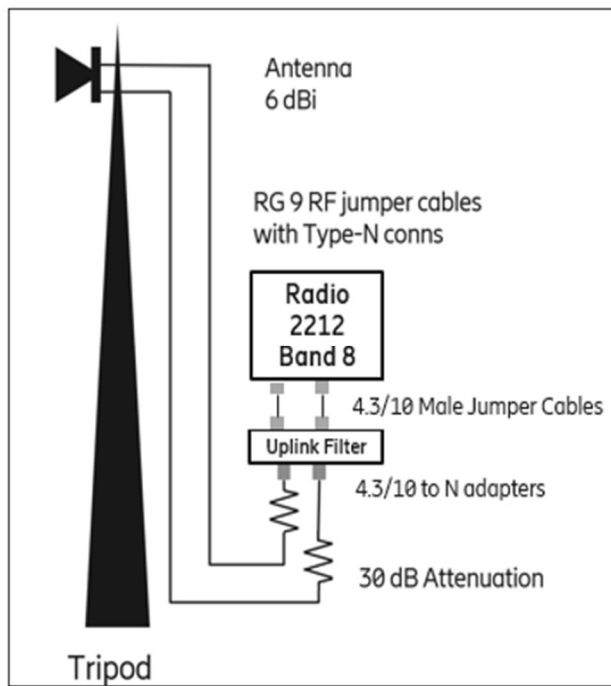


We will have one radio for the new system that uses Anterix 900Mhz spectrum. It uses Operating Band (DL Freq.) B8C (936.5-939.5 MHz).

The system will be used only for lab testing indoors at our facility. In addition, we will use attenuators to lower the output signal to OEM's recommended level for an indoor lab environment – see sketch below with details.



Installation of demo system at FT Lab, Suwanee Georgia:

*In the lab we are safely radiating indoors with an outdoor radio, because there is 30 dB of attenuation between the Radio 2212 and a low gain antenna (6 dBi). To safely operate the Radio 2212 Indoors, Ericsson strongly recommends implementing the following guidelines which describe the UIC set up.*

*Radio output power is set, and limited, to 300 mWatt x 2. This is right above the 250-mW low power limit where Ericsson guarantees the LTE specified 3GPP performance. This power level provides an adequate link budget in the UIC where there is 25 feet between the antenna and LTE gateway routers. The SINR is greater than 30 dB.*

*If the radio were to be ever mistakenly turned up to 40W x2, then the EIRP from the antenna would be  $(80/1000) \times 4 = 320\text{mW}$ . This is comparable to the power emitted by a cell phone; therefore, safe for anyone who might be very close to the radiating antenna. At full RF power, the attenuators would not catch fire due to their appropriate power rating.*

*It is also recommended that the lab area be monitored by a radiation hazard alarm, and signage noting that RF radiation is present in the area, but that it is below the permissible exposure level for the general population.*