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RF exposure analysis for the equipment CB2-BLUE13M (FCC ID: CB2-BLUE13M)

The output power of the device is extremely low (1,06 mW conducted, 0,45 mW eirp) and far below the $60/f(\text{GHz}) \text{ mW}$ ($60/2.45 \text{ mW} = 24.48 \text{ mW}$) threshold. For that reason the equipment is categorically excluded from routine environmental evaluation for RF exposure and it is deemed to comply with FCC limits for exposure to electromagnetic fields.

This product integrates an AR5550 CDMA modem (FCC ID: N7NAR5550, IC: 2417C-AR5550). The AR5550 modem is granted with a modular approval for mobile applications. Integration has been done meeting the following conditions:

1. At least 20cm separation distance between the antenna and any person body is maintained at all times.
2. To comply with FCC/IC regulations limiting both maximum RF output power and human exposure to RF radiation, the maximum antenna gain including cable loss in a mobile only exposure condition does not exceed 4.25dBi for CDMA 800 band and 6.1dBi for CDMA PCS band.
3. The AR5550 antenna is not co-located with any other antennas.

Product configuration is as follows:

