

KDB447498 SAR Exclusion Threshold

The Bluetooth transmitter has a measured conducted output power of 0.0011W (0.4dBm) which meets the SAR Test Exclusion Threshold as per FCC KDB 447498 4.3.1. The simultaneous transmission estimated SAR per 447498 4.3.2 is given by:

$$\text{SAR} = [P/d] * [\pm f/x] = 0.046\text{W/kg}$$

Where:

P = Maximum Channel Power (mW) = 1.1

d = Minimum Test Separation Distance (mm) = 5

f = Maximum Transmit Frequency (GHz) = 2.48

x = 7.5 for 1g SAR

This is the most conservative SAR estimation and will be applied to BOTH Face and Body configurations. Adding the Estimated SAR to the measured SAR gives: