

FCC ID: 2ADZH-BW04

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\left[\sqrt{f(GHz)}\right] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

--f(GHz) is the RF channel transmit frequency in GHz

--Power and distance are rounded to the nearest mW and mm before calculation

--The result is rounded to one decimal place for comparison

eirp = pt x gt = (EXd)²/30 where: pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless), E = electric field strength in V/m, --- $10^{((dBuV/m)/20)}/10^{6}$ d = measurement distance in meters (m) ---3m So pt = (EXd)²/30 x gt

For BT DSS mode

Field strength = 97.47dBuV/m @3m Ant gain =0.8dBi, so Ant numeric gain=1.20

So pt={ $[10^{(97.47/20)}/10^6 \times 3]^2/30\times 1.20$ }x1000 mW =1.39mW So (1.39mW /5mm)x $\sqrt{2.402}$ = 0.431<3

For BT DTS mode

Field strength = 94.19dBuV/m @3m Ant gain =0.8dBi, so Ant numeric gain= 1.20

So pt={ $[10^{(94.19/20)}/10^6 \times 3]^2/30\times 1.20$ }x1000 mW = 0.655mW So (0.655mW /5mm)x $\sqrt{2.480}$ = 0.206<3

Then SAR evaluation is not required