

# FCC ID: 2AYCB-AM100PD

## > Test Standards and Limits

- 1. According to KDB 447498 D01 v06, Section 4.3.1
- 2. FCC Radiofrequency radiation exposure limits:

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

[(max power of channel)/(min test separation distance)]\*[ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation

distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

For 2.4G band device, the limit of worse case is  $P_{max} \le 3.0^*D_{min}$ )/ f = 3.0\*5/ 2.480 = 9.525mW

### Measurement and Calculation

### 1. Maximum transmit power

1M. Antenna Gain: 0dBi

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)
Bluetooth DTS	0	2402	-24.05
	19	2440	-23.68
	39	2480	-23.01

#### 2. MPE Calculation

The Max Conducted Peak Output Power is 0.005mW. The Max Antenna Gain is 0dBi.

According to the formula. calculate the EIRP test result: EIRP=  $P \times G = 0.005 \text{ mW} \times 1 = 0.005 \text{mW} < 9.525 \text{mW}$ 

So the SAR report is not required.

-End of the Report-