

## FCC ID : 2AXGMBL-YQD01

### ➤ 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  $\leq$  50 mm are determined by:

$[(\text{max power of channel})/(\text{min test separation distance})]^*[\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

- $f(\text{GHz})$  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  
 $P_{\text{max}} \leq 3.0 * D_{\text{min}} / f = 3.0 * 5 / 2.480 = 9.525 \text{ mW}$

### ➤ Measurement and Calculation

#### 1. Maximum transmit power

BT, Antenna Gain: 0dBi

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)	Limit (dBm)	Verdict
GFSK	0	2402	1.03	30	PASS
	39	2441	<b>1.68</b>	30	PASS
	78	2480	0.91	30	PASS
pi/4-DQPSK	0	2402	0.97	21	PASS
	39	2441	1.60	21	PASS
	78	2480	0.87	21	PASS
8DPSK	0	2402	0.95	21	PASS
	39	2441	1.63	21	PASS
	78	2480	0.91	21	PASS

BLE, Antenna Gain: 0dBi

Operation Mode	Data Rate	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)	Limit (dBm)	Verdict
Bluetooth DTS	1M	0	2402	<b>0.10</b>	30	PASS
		19	2440	-0.11	30	PASS
		39	2480	-0.13	30	PASS

## 2. MPE Calculation

Mode	Max Measured power (dBm)	Max tune-up power (dBm)	Antenna gain	Antenna Gain Numeric	Evaluation result (mW)	Limits
BT	1.68	2	0	1	1.47	< 9.525mW
BLE	0.10	1	0	1	1.26	< 9.525mW

**So the SAR report is not required.**

-End of the Report-

