

FCC ID: 2AB4KMTYH8247

> 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)] ≤ 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
- 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 ≤ 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 $P_{\text{max}} \le 3.0^* D_{\text{min}} / f = 3.0^* 5 / 2.480 = 9.525 \text{mW}$

Measurement and Calculation

1. Maximum transmit power

Antenna Gain: -0.58 dBi

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]
DH5	Ant1	2402	-2.72
		2441	-0.28
		2480	1.76
2DH5	Ant1	2402	-2.46
		2441	0.34
		2480	2.18
3DH5	Ant1	2402	-2.34
		2441	0.11
		2480	2.78

2. MPE Calculation

The Max Conducted Peak Output Power is 2.78 dBm. The Max Antenna Gain is -0.58 dBi.

According to the formula. calculate the EIRP test result: $EIRP = P \times G = 0.92 \text{ mW } \times 1.90 = 1.748 \text{mW} < 9.525 \text{mW}$

So the SAR report is not required.

-End of the Report-