

RF Exposure evaluation

FCC ID: X4YHASS130

1. Reference

According to 447498 D01 General RF Exposure Guidance v06

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:

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

Where:

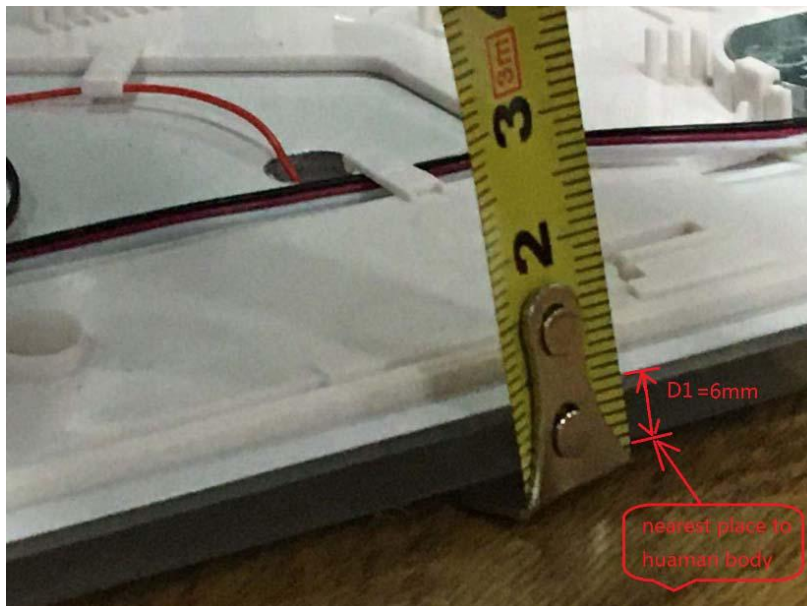
$f(\text{GHz})$ is the RF channel transmit frequency in GHz

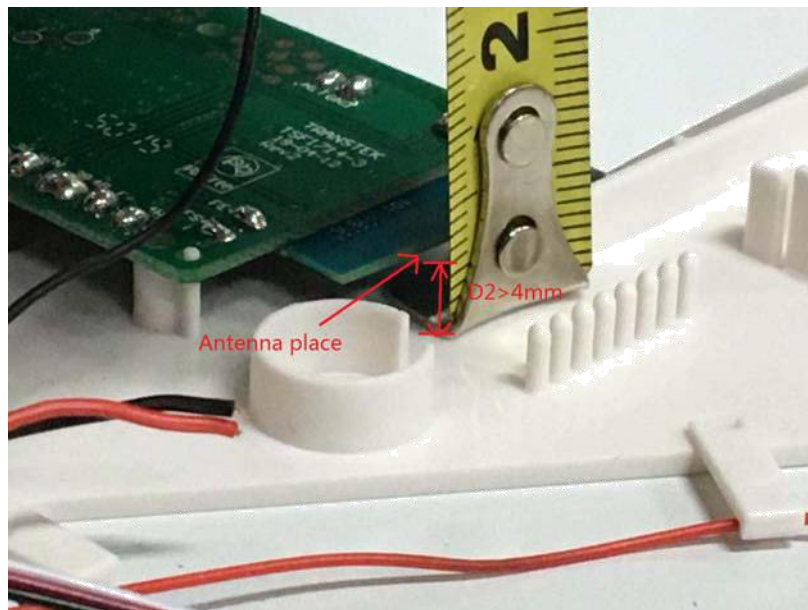
Power and distance are rounded to the nearest mW and mm before calculation The result is rounded to one decimal place for comparison

2. Test distance

As the plot exhibit below, the distance of body to the Antenna plane is more than 10mm.

$$d=d1+d2>10\text{mm}$$





3. Result

As the antenna EUT used was 0dBi and h duty cycle $\geq 98\%$ in test report, the sar exclusion value can obtained.

$P_t = 15.17\text{dBm} = 32.88\text{mW}$

Worse case is as below:

Frequency (MHz)	TX Power (mw)	Separation Distance (mm)	calculated value	exclusion thresholds
2412	32.88	10	5.1	7.5

4. Conclusion

The SAR evaluation is not required.