

For FCC Standalone SAR test exclusion considerations

FCC ID: 2AB9R-BRC0550901

Tunable Range	
F(GHz) Low	F(GHz) High
2.425	2.475

According to **KDB 447498 D01 General RF Exposure Guidance v05**

4.3.1 Standalone SAR test exclusion considerations

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:

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

Note: when the minimum test separation distance is $<$ 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Based on the Maximum measured transmitter power:

Pout Conducted (dBm)	Maximum Antenna Gain (dBi)	Pout EIRP (mW)
1.809	2.34	2.60

Maximum TX Power is 1.52mW Conducted and 2.60mW EIRP

$[(2.60 \text{ mW}) / 5 \text{ mm}] \cdot \sqrt{2.475(\text{GHz})} = 0.82 < 3.0$

Conclusion: ZigBee SAR was not required.