

RF EXPOSURE EVALUATION

FCC ID: **2ADS9-E6-XX**

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation:

$$P(\text{mW}) / (d(\text{mm}) * \text{SQRT}(f, \text{GHz})) < 1/3$$

The maximum Peak output power for low channel is: $8.43\text{dBm} = 6.97\text{mW}$

The low frequency for WiFi is $f=2.412$ (GHz), and result in $\text{SQRT}(f) = 5.818$

So the antenna distance shall be $6.97 / (1/3 * 5.818)$, at least **3.59** mm.

The maximum Peak output power for middle channel is: $7.51\text{dBm} = 5.64\text{mW}$

The middle frequency for WiFi is $f=2.437$ (GHz), and result in $\text{SQRT}(f) = 5.939$

So the antenna distance shall be $5.64 / (1/3 * 5.939)$, at least **2.85**mm.

The maximum Peak output power for high channel is: $6.59\text{dBm} = 4.56\text{mW}$

The high frequency for WiFi is $f=2.462$ (GHz), and result in $\text{SQRT}(f) = 6.061$

So the antenna distance shall be $4.56 / (1/3 * 6.061)$, at least **2.26** mm.

I.e. the minimum distance from antenna to outer side of the enclosure is 3.59mm. The actual distance is 4.08mm, so the result is **PASS**.



