

RF EXPOSURE EVALUATION

FCC ID: **2AFPC-HOOXCUP**

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 as specified in §1.1307(b):

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:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \left[\sqrt{f_{\text{(GHz)}}} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{16} \text{ where}$$

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

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 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

Mode: BDR

The maximum output power for low channel is: 1.726dBm= 1.488mW

Tune up tolerance is: 1.726 ± 1 dBm

The Max. Tune up Power =2.726dBm= 1.873mW

The calculation results= $1.873/5 \cdot \sqrt{2.402} = 0.581 < 3$

The maximum output power for middle channel is: 1.935dBm= 1.561mW

Tune up tolerance is: 1.935 ± 1 dBm

The Max. Tune up Power =2.935dBm= 1.966mW

The calculation results= $1.966/5 \cdot \sqrt{2.441} = 0.614 < 3$

The maximum output power for high channel is: 2.306dBm= 1.701mW

Tune up tolerance is: 2.306 ± 1 dBm

The Max. Tune up Power =3.306dBm= 2.141mW

The calculation results= $2.141/5 \cdot \sqrt{2.480} = 0.674 < 3$

Mode: EDR

The maximum output power for low channel is: 1.701dBm= 1.479mW

Tune up tolerance is: 1.701 ± 1 dBm

The Max. Tune up Power =2.701dBm= 1.863mW

The calculation results= $1.863/5 \cdot \sqrt{2.402} = 0.577 < 3$

The maximum output power for middle channel is: 1.910dBm= 1.552mW

Tune up tolerance is: 1.910 ± 1 dBm

The Max. Tune up Power =2.910dBm= 1.954mW

The calculation results= $1.954/5 \cdot \sqrt{2.441} = 0.611 < 3$

The maximum output power for high channel is: 2.252dBm= 1.680mW

Tune up tolerance is: 2.252 ± 1 dBm

The Max. Tune up Power =3.252dBm= 2.114mW

The calculation results= $2.114/5 \cdot \sqrt{2.480} = 0.666 < 3$

Test Results: **PASS.**