

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Mymanu CLIK+ Smart Bluetooth Wireless Earbuds
Model Name	CLIK+
FCC ID	2API9-CLIK

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

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, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 before calculation

3. CALCULATION

According to the follow transmitter output power (P_t) formula: P_t = ($E \times d$) 2 /($30 \times g_t$) P_t =transmitter output power in watts g_t =numeric gain of the transmitting antenna (unitess) E=electric field strength in V/m d=measurement distance in meters (m)

For BT
According to the above test data,
P₊=4.88dBm=3.08mW

The result is rounded to one decimal place for comparison Worse case is as below: [2480MHz -3.0mW output power] $(3.08\text{mW} /5\text{mm}).[\sqrt{2.480}(\text{GHz})] = 0.97 < 3.0 \text{ for } 1-\text{g SAR}$

For 10.579MHz E=45.82dBuV/m(Peak)@3m

 $E[dB\mu V/m] = EIRP[dBm] - 20 log (d[meters]) + 104.77$, where E = field strength and d = distance at which field strength limit is specified in the rules

P=45.82-95.2=-49.38dBm

Pt=0.000012mW

The result for RF exposure evaluation SAR=3*0.000012/474= 0.000000076<3.0 for 1-g SAR

Simultaneous transmission between Bluetooth and 10.579MHz transmitter [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)/x}$] W/kg, for test separation distances \leq 50 mm; where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.

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4. CONCLUSION

The SAR evaluation is not required.

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