

# **FCC ID: 2BOD9-KTSA12**

## **Portable device**

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

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

- $f(\text{GHz})$  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

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

## **433.92**

### **Transmit power:**

Frequency (MHz)	EIRP power (dBuV/m)	EIRP power (dBm)
433.925	85.93	-9.27

$$\text{EIRP} = E - 104.8 + 20\log(D)$$

EIRP=conducted power + antenna gain

antenna gain: -1.22dBi;

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
FSK	0.433925	-10.49	0.089	-10±2	-8	0.158	<5	0.02088	3.00	YES

### **Conclusion:**

For the max result :  $0.02088 \leq 3.0$  for 1g SAR, SAR is not required.



**Signature:**

**Date:** 2025-04-10

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