

**FCC ID:2BNXJ-SMT-CAD01**

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:

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

433.922MHz:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d 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
ASK	0.43392	-32.53	0.0006	-32±1	-33.00	0.0005	<5	0.00007	3.00	YES

Note:  $\text{dbm} = \text{dbuv/m} - 95.2 - 2.15 = 65.82 - 95.2 - 2.15 = -31.53 \text{ dBm (ERP)}$ , so the conduct peak power =  $-31.53 - 1 = -32.53 \text{ dBm}$

**Conclusion:**

For the max result :  $0.00007 \leq \text{FCC Limit } 3.0$  for 1g SAR.