

**FCC ID:2BGN7-D1688A**

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:

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

- $f(\text{GHz})$  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.

433.9154MHz

| 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 |
|------------|---------------------|-----------------------|----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| ASK        | 0.43392             | -28.16                | 0.00                 | -28±1               | -27.00                  | 0.00                   | <5            | 0.00026            | 3.00                    | YES                |

Note:  $\text{dbm} = \text{dbuv/m} - 95.2 - 2.15 = 70.19 - 95.2 - 2.15 = -27.16 \text{ dBm (ERP)}$ , so the conducted peak power =  $-27.16 - 1 = -28.16 \text{ dBm}$

**Conclusion:**

For the max result :  $0.00026 \leq$  FCC Limit 3.0 for 1g SAR.