

**FCC ID: 2BEN8-HE-415**

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.

433.925MHz:

| 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        | 0.43393             | -13.98                 | 0.04                  | -13±1               | -12.00                  | 0.06                   | <5            | 0.00831            | 3.00                    | YES                |

Note:  $\text{dbm} = \text{dbuv}/\text{m} - 95.2 - 2.15 = 85.37 - 95.2 - 2.15 = -11.98\text{dBm(ERP)}$ , so the conduct peak power =  $-11.98 - 2 = -13.98\text{dBm}$

**Conclusion:**

For the max result :  $0.00831 \leq \text{FCC Limit } 3.0$  for 1g SAR.