

**FCC ID:2BDRZ-M10**

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.

**BLE:1M**

| 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 |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK       | 2.402               | -3.416                 | 0.46                  | -3±1                | -2.00                   | 0.63                   | <5            | 0.19558            | 3.00                    | YES                |
|            | 2.44                | -4.007                 | 0.40                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15658            | 3.00                    | YES                |
|            | 2.480               | -4.241                 | 0.38                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15785            | 3.00                    | YES                |

**BLE:2M**

| 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 |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK       | 2.402               | -3.482                 | 0.45                  | -3±1                | -2.00                   | 0.63                   | <5            | 0.19558            | 3.00                    | YES                |
|            | 2.44                | -3.995                 | 0.40                  | -3±1                | -2.00                   | 0.63                   | <5            | 0.19712            | 3.00                    | YES                |
|            | 2.480               | -4.122                 | 0.39                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15785            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.19712 \leq$  FCC Limit 3.0 for 1g SAR.