

**FCC ID:2BGMZ-GW88**

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.

EDR:

| 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               | 2.151                  | 1.64                  | 2±1                 | 3.00                    | 2.00                   | <5            | 0.61847            | 3.00                    | YES                |
|               | 2.441               | 3.16                   | 2.07                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.78490            | 3.00                    | YES                |
|               | 2.480               | 4.871                  | 3.07                  | 4±1                 | 5.00                    | 3.16                   | <5            | 0.99599            | 3.00                    | YES                |
| $\pi$ /4DQPSK | 2.402               | 3.062                  | 2.02                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860            | 3.00                    | YES                |
|               | 2.441               | 3.945                  | 2.48                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.78490            | 3.00                    | YES                |
|               | 2.480               | 5.56                   | 3.60                  | 5±1                 | 6.00                    | 3.98                   | <5            | 1.25388            | 3.00                    | YES                |

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               | -0.43                  | 0.91                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39023            | 3.00                    | YES                |
|            | 2.44                | 0.487                  | 1.12                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39330            | 3.00                    | YES                |
|            | 2.480               | 2.125                  | 1.63                  | 2±1                 | 3.00                    | 2.00                   | <5            | 0.62843            | 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               | -0.64                  | 0.86                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39023            | 3.00                    | YES                |
|            | 2.44                | 0.453                  | 1.11                  | 0±1                 | 1.00                    | 1.26                   | <5            | 0.39330            | 3.00                    | YES                |
|            | 2.480               | 2.174                  | 1.65                  | 2±1                 | 3.00                    | 2.00                   | <5            | 0.62843            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $1.25388 \leq \text{FCC Limit } 3.0$  for 1g SAR.