

**FCC ID: 2BGFM-D1196E**

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               | 3.794                  | 2.40                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860            | 3.00                    | YES                |
|               | 2.441               | 3.576                  | 2.28                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.78490            | 3.00                    | YES                |
|               | 2.480               | 3.49                   | 2.23                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.79114            | 3.00                    | YES                |
| $\pi$ /4DQPSK | 2.402               | 4.454                  | 2.79                  | 4±1                 | 5.00                    | 3.16                   | <5            | 0.98020            | 3.00                    | YES                |
|               | 2.441               | 4.258                  | 2.67                  | 4±1                 | 5.00                    | 3.16                   | <5            | 0.98813            | 3.00                    | YES                |
|               | 2.480               | 4.123                  | 2.58                  | 4±1                 | 5.00                    | 3.16                   | <5            | 0.99599            | 3.00                    | YES                |
| 8DQPSK        | 2.402               | 4.745                  | 2.98                  | 4±1                 | 5.00                    | 3.16                   | <5            | 0.98020            | 3.00                    | YES                |
|               | 2.441               | 4.498                  | 2.82                  | 4±1                 | 5.00                    | 3.16                   | <5            | 0.98813            | 3.00                    | YES                |
|               | 2.480               | 4.391                  | 2.75                  | 4±1                 | 5.00                    | 3.16                   | <5            | 0.99599            | 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               | 3.252                  | 2.11                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860            | 3.00                    | YES                |
|            | 2.44                | 3.054                  | 2.02                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.78474            | 3.00                    | YES                |
|            | 2.480               | 2.96                   | 1.98                  | 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               | 3.357                  | 2.17                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860            | 3.00                    | YES                |
|            | 2.44                | 3.267                  | 2.12                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.78474            | 3.00                    | YES                |
|            | 2.480               | 3.199                  | 2.09                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.79114            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.99599 \leq$  FCC Limit 3.0 for 1g SAR.