



**FCC ID: 2AGHAD20**

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.

**BT-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 calculatio n | SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|---------------------|-------------------------|--------------------|
| GFSK       | 2.402               | 1.16                   | 1.31                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49127             | 3.00                    | YES                |
|            | 2.441               | 1.14                   | 1.30                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49524             | 3.00                    | YES                |
|            | 2.480               | 0.17                   | 1.04                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49918             | 3.00                    | YES                |
| Pi/4 DQPSK | 2.402               | 1.45                   | 1.40                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49127             | 3.00                    | YES                |
|            | 2.441               | 1.50                   | 1.41                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49524             | 3.00                    | YES                |
|            | 2.480               | 0.46                   | 1.11                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49918             | 3.00                    | YES                |
| 8DPSK      | 2.402               | 1.72                   | 1.49                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49127             | 3.00                    | YES                |
|            | 2.441               | 1.59                   | 1.44                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49524             | 3.00                    | YES                |
|            | 2.480               | 1.13                   | 1.30                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49918             | 3.00                    | YES                |

**BT-BLE**

| 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 calculatio n | SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|---------------------|-------------------------|--------------------|
| GFSK       | 2.402               | 1.39                   | 1.38                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49127             | 3.00                    | YES                |
|            | 2.441               | 1.24                   | 1.33                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49524             | 3.00                    | YES                |
|            | 2.480               | 1.12                   | 1.29                  | 1±1                 | 2.00                    | 1.58                   | <5            | 0.49918             | 3.00                    | YES                |

**Conclusion:**

For the max result :  $0.49918 \leq \text{FCC Limit } 3.0$  for 1g SAR.