

**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:**

| Test Mode      | Channel Frequency (GHz) | Conducted power (dBm) | Conducted power (mW) | Max tune-up power (dBm) | Max tune-up power (mW) | Distance (mm) | Result calculation | SAR Exclusion threshold | SAR test exclusion |
|----------------|-------------------------|-----------------------|----------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK           | 2.402                   | 7.19                  | 5.24                 | 7.50                    | 5.62                   | 5.00          | 1.743              | 3.000                   | Yes                |
|                | 2.441                   | 7.56                  | 5.70                 | 7.50                    | 5.62                   | 5.00          | 1.757              | 3.000                   | Yes                |
|                | 2.480                   | 6.52                  | 4.49                 | 7.50                    | 5.62                   | 5.00          | 1.771              | 3.000                   | Yes                |
| $\pi/4$ -DQPSK | 2.402                   | 9.60                  | 9.12                 | 9.50                    | 8.91                   | 5.00          | 2.763              | 3.000                   | Yes                |
|                | 2.441                   | 9.88                  | 9.73                 | 9.50                    | 8.91                   | 5.00          | 2.785              | 3.000                   | Yes                |
|                | 2.480                   | 8.82                  | 7.62                 | 9.50                    | 8.91                   | 5.00          | 2.807              | 3.000                   | Yes                |
| 8-DPSK         | 2.402                   | 9.15                  | 8.22                 | 9.00                    | 7.94                   | 5.00          | 2.462              | 3.000                   | Yes                |
|                | 2.441                   | 9.44                  | 8.79                 | 9.00                    | 7.94                   | 5.00          | 2.482              | 3.000                   | Yes                |
|                | 2.480                   | 9.37                  | 8.65                 | 9.00                    | 7.94                   | 5.00          | 2.502              | 3.000                   | Yes                |

**BLE:**

| Test Mode | Channel Frequency (GHz) | Conducted power (dBm) | Conducted power (mW) | Max tune-up power (dBm) | Max tune-up power (mW) | Distance (mm) | Result calculation | SAR Exclusion threshold | SAR test exclusion |
|-----------|-------------------------|-----------------------|----------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| BLE(1M)   | 2.402                   | 4.70                  | 2.95                 | 5.00                    | 3.16                   | 5.00          | 0.980              | 3.000                   | Yes                |
|           | 2.440                   | 5.09                  | 3.23                 | 5.00                    | 3.16                   | 5.00          | 0.988              | 3.000                   | Yes                |
|           | 2.480                   | 3.92                  | 2.47                 | 5.00                    | 3.16                   | 5.00          | 0.996              | 3.000                   | Yes                |
| BLE(2M)   | 2.402                   | 4.91                  | 3.10                 | 5.00                    | 3.16                   | 5.00          | 0.980              | 3.000                   | Yes                |
|           | 2.440                   | 5.20                  | 3.31                 | 5.00                    | 3.16                   | 5.00          | 0.988              | 3.000                   | Yes                |
|           | 2.480                   | 4.19                  | 2.62                 | 5.00                    | 3.16                   | 5.00          | 0.996              | 3.000                   | Yes                |

**Conclusion:**

For the max result :  $2.807 \leq \text{FCC Limit } 3.00$  for 1g SAR.