

**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:**

| 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               | 2.57                   | 1.81                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.77860            | 3.00                    | YES                |
|            | 2.441               | 3.52                   | 2.25                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.78490            | 3.00                    | YES                |
|            | 2.480               | 3.8                    | 2.40                  | 3±1                 | 4.00                    | 2.51                   | <5            | 0.79114            | 3.00                    | YES                |
| π/4-DQPSK  | 2.402               | 2.35                   | 1.72                  | 2.6±1               | 3.60                    | 2.29                   | <5            | 0.71010            | 3.00                    | YES                |
|            | 2.441               | 3.31                   | 2.14                  | 2.6±1               | 3.60                    | 2.29                   | <5            | 0.71584            | 3.00                    | YES                |
|            | 2.480               | 3.55                   | 2.26                  | 2.6±1               | 3.60                    | 2.29                   | <5            | 0.72153            | 3.00                    | YES                |
| 8DPSK      | 2.402               | 2.36                   | 1.72                  | 2.5±1               | 3.50                    | 2.24                   | <5            | 0.69393            | 3.00                    | YES                |
|            | 2.441               | 2.85                   | 1.93                  | 2.5±1               | 3.50                    | 2.24                   | <5            | 0.69954            | 3.00                    | YES                |
|            | 2.480               | 3.32                   | 2.15                  | 2.5±1               | 3.50                    | 2.24                   | <5            | 0.70511            | 3.00                    | YES                |

**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 calculation | SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| GFSK       | 2.402               | -3.65                  | 0.43                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15535            | 3.00                    | YES                |
|            | 2.44                | -3.33                  | 0.46                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15658            | 3.00                    | YES                |
|            | 2.480               | -3.01                  | 0.50                  | -4±1                | -3.00                   | 0.50                   | <5            | 0.15785            | 3.00                    | YES                |

**WIFI:**

| 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 |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|--------------------|
| 802.11b    | 2.412               | 9.1                    | 8.13                  | 8.5±1               | 9.50                    | 8.91                   | <5            | 2.76834            | 3.00                    | YES                |
|            | 2.437               | 9.4                    | 8.71                  | 8.5±1               | 9.50                    | 8.91                   | <5            | 2.78264            | 3.00                    | YES                |
|            | 2.462               | 9.3                    | 8.51                  | 8.5±1               | 9.50                    | 8.91                   | <5            | 2.79688            | 3.00                    | YES                |
| 802.11g    | 2.412               | 8.8                    | 7.59                  | 8±1                 | 9.00                    | 7.94                   | <5            | 2.46728            | 3.00                    | YES                |
|            | 2.437               | 8.5                    | 7.08                  | 8±1                 | 9.00                    | 7.94                   | <5            | 2.48003            | 3.00                    | YES                |
|            | 2.462               | 8.2                    | 6.61                  | 8±1                 | 9.00                    | 7.94                   | <5            | 2.49272            | 3.00                    | YES                |
| 802.11n20  | 2.412               | 7.6                    | 5.75                  | 7±1                 | 8.00                    | 6.31                   | <5            | 1.95983            | 3.00                    | YES                |
|            | 2.437               | 7.4                    | 5.50                  | 7±1                 | 8.00                    | 6.31                   | <5            | 1.96996            | 3.00                    | YES                |
|            | 2.462               | 7.8                    | 6.03                  | 7±1                 | 8.00                    | 6.31                   | <5            | 1.98004            | 3.00                    | YES                |
| 802.11n40  | 2.422               | 7.2                    | 5.25                  | 6.5±1               | 7.50                    | 5.62                   | <5            | 1.75032            | 3.00                    | YES                |
|            | 2.437               | 7                      | 5.01                  | 6.5±1               | 7.50                    | 5.62                   | <5            | 1.75573            | 3.00                    | YES                |
|            | 2.452               | 7.4                    | 5.50                  | 6.5±1               | 7.50                    | 5.62                   | <5            | 1.76113            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $2.79688 \leq 3.0$  for 1g SAR, No SAR is required.

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