

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.

| 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               | 6.92                   | 4.92                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.74308            | 3.00                    | YES                |
|            | 2.441               | 7.1                    | 5.13                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.75717            | 3.00                    | YES                |
|            | 2.480               | 6.54                   | 4.51                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.77115            | 3.00                    | YES                |
| π/4-DQPSK  | 2.402               | 6.93                   | 4.93                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.74308            | 3.00                    | YES                |
|            | 2.441               | 7.1                    | 5.13                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.75717            | 3.00                    | YES                |
|            | 2.480               | 6.54                   | 4.51                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.77115            | 3.00                    | YES                |
| 8-DQPSK    | 2.402               | 6.94                   | 4.94                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.74308            | 3.00                    | YES                |
|            | 2.441               | 7.11                   | 5.14                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.75717            | 3.00                    | YES                |
|            | 2.480               | 6.54                   | 4.51                  | 6.5±1               | 7.5                     | 5.62                   | <5            | 1.77115            | 3.00                    | YES                |
| BLE 1M     | 2.402               | 4.88                   | 3.08                  | 4±1                 | 5                       | 3.16                   | <5            | 0.98020            | 3.00                    | YES                |
|            | 2.44                | 4.98                   | 3.15                  | 4±1                 | 5                       | 3.16                   | <5            | 0.98793            | 3.00                    | YES                |
|            | 2.480               | 4.39                   | 2.75                  | 4±1                 | 5                       | 3.16                   | <5            | 0.99599            | 3.00                    | YES                |
| BLE 2M     | 2.402               | 4.79                   | 3.01                  | 4±1                 | 5                       | 3.16                   | <5            | 0.98020            | 3.00                    | YES                |
|            | 2.44                | 4.88                   | 3.08                  | 4±1                 | 5                       | 3.16                   | <5            | 0.98793            | 3.00                    | YES                |
|            | 2.480               | 4.25                   | 2.66                  | 4±1                 | 5                       | 3.16                   | <5            | 0.99599            | 3.00                    | YES                |

**Conclusion:**

For the max result :  $1.77115 \leq 3.0$  for 1g SAR, SAR is not required.



**Signature:**

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