

FCC ID: 2BGXQ-RT06

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 ≤ 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 ≤ 7.5 for 10-g extremity SAR, where:

- f(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) | EIRP power (dBm) | EIRP 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 | 4.97 | 3.14 | 5±1 | 6 | 3.98 | <5 | 1.23400 | 3.00 | YES |
| | 2.441 | 5.70 | 3.72 | 5±1 | 6 | 3.98 | <5 | 1.24398 | 3.00 | YES |
| | 2.480 | 5.98 | 3.96 | 5±1 | 6 | 3.98 | <5 | 1.25388 | 3.00 | YES |
| π/4-DQPSK | 2.402 | 5.49 | 3.54 | 6±1 | 7 | 5.01 | <5 | 1.55352 | 3.00 | YES |
| | 2.441 | 6.22 | 4.19 | 6±1 | 7 | 5.01 | <5 | 1.56608 | 3.00 | YES |
| | 2.480 | 6.50 | 4.47 | 6±1 | 7 | 5.01 | <5 | 1.57854 | 3.00 | YES |
| 8-DQPSK | 2.402 | 5.79 | 3.79 | 6±1 | 7 | 5.01 | <5 | 1.55352 | 3.00 | YES |
| | 2.441 | 6.43 | 4.40 | 6±1 | 7 | 5.01 | <5 | 1.56608 | 3.00 | YES |
| | 2.480 | 6.68 | 4.66 | 6±1 | 7 | 5.01 | <5 | 1.57854 | 3.00 | YES |
| BLE1M | 2.402 | 5.16 | 3.28 | 6±1 | 7 | 5.01 | <5 | 1.55352 | 3.00 | YES |
| | 2.440 | 5.83 | 3.83 | 6±1 | 7 | 5.01 | <5 | 1.56576 | 3.00 | YES |
| | 2.480 | 6.14 | 4.11 | 6±1 | 7 | 5.01 | <5 | 1.57854 | 3.00 | YES |
| BLE2M | 2.402 | 5.20 | 3.31 | 6±1 | 7 | 5.01 | <5 | 1.55352 | 3.00 | YES |
| | 2.440 | 5.85 | 3.85 | 6±1 | 7 | 5.01 | <5 | 1.56576 | 3.00 | YES |
| | 2.480 | 6.15 | 4.12 | 6±1 | 7 | 5.01 | <5 | 1.57854 | 3.00 | YES |

Conclusion:

For the max result : $1.57854 \leq 3.0$ for 1g SAR, SAR is not required.

Signature: 

Date: 2024-07-19

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