

FCC ID: 2ABU6-MTAG29

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.

Antenna Type: PCB Antenna

Antenna Gain: 2.47 dBi

1M

| 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 | 1g SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|---------------------|----------------------------|--------------------|
| GFSK | 2.402 | 0.59 | 1.146 | 0±1 | 1.0 | 1.259 | <5 | 0.39023 | 3.00 | YES |
| | 2.441 | 0.78 | 1.197 | 0±1 | 1.0 | 1.259 | <5 | 0.39338 | 3.00 | YES |
| | 2.480 | -1.73 | 0.671 | -1±1 | 0.0 | 1.000 | <5 | 0.31496 | 3.00 | YES |

2M

| 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 | 1g SAR Exclusion threshold | SAR test exclusion |
|------------|---------------------|------------------------|-----------------------|---------------------|-------------------------|------------------------|---------------|---------------------|----------------------------|--------------------|
| GFSK | 2.402 | 0.61 | 1.151 | 0±1 | 1.0 | 1.259 | <5 | 0.39023 | 3.00 | YES |
| | 2.441 | 0.82 | 1.208 | 0±1 | 1.0 | 1.259 | <5 | 0.39338 | 3.00 | YES |
| | 2.480 | -1.72 | 0.673 | -1±1 | 0.0 | 1.000 | <5 | 0.31496 | 3.00 | YES |

Conclusion:

For the max result : $0.39338 \leq 3.0$ for 1-g SAR, No SAR is required.

Signature:

Date: 2022-01-18

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