



FCC ID: 2AJXE-ASR-023B

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:

- $f(\text{GHz})$ 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) | Conducted power (dBm) | EIRP (dBm) | Conducted power (mW) | Tune-up power (dBm) | Max tune-up power (dBm) | Max tune-up power (mW) | Distance (mm) | Result calculation | SAR Exclusion threshold |
|------------|---------------------|-----------------------|------------|----------------------|---------------------|-------------------------|------------------------|---------------|--------------------|-------------------------|
| GFSK | 2.402 | 6.81 | 8.81 | 7.60 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.46216 | 3.00 |
| | 2.441 | 6.82 | 8.82 | 7.62 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.48207 | 3.00 |
| | 2.480 | 6.89 | 8.89 | 7.74 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.50182 | 3.00 |
| Pi/4 DQPSK | 2.402 | 6.16 | 8.16 | 6.55 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.46216 | 3.00 |
| | 2.441 | 6.18 | 8.18 | 6.58 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.48207 | 3.00 |
| | 2.480 | 6.07 | 8.07 | 6.41 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.50182 | 3.00 |
| 8DPSK | 2.402 | 6.39 | 8.39 | 6.90 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.46216 | 3.00 |
| | 2.441 | 6.67 | 8.67 | 7.36 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.48207 | 3.00 |
| | 2.480 | 5.95 | 7.95 | 6.24 | 8 ± 1 | 9.00 | 7.94 | < 5 | 2.50182 | 3.00 |

Note: Antenna Gain: 2dBi, EIRP = Conducted power + Antenna Gain

Conclusion:

For the max result : $2.50182 \leq \text{FCC Limit } 3.0$ for 1g SAR.