

FCC ID: 2BPPB-MZS001

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.

433.944MHz:

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
ASK	0.43394	-25.57	0.0028	-25±1	-24.00	0.0040	<5	0.00052	3.00	YES

Note:dbm=dbuv/m-95.2-2.15=72.78-95.2-2.15=-24.57dBm(ERP), so the conduct peak power=-24.57-1=-25.57dBm

315.0152MHz:

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
ASK	0.31502	-28.75	0.0013	-28±1	-27.00	0.0020	<5	0.00022	3.00	YES

Note:dbm=dbuv/m-95.2-2.15=69.60-95.2-2.15=-27.75dBm(ERP), so the conduct peak power=-27.75-1=-28.75dBm

Conclusion:

For the max result : $0.00052 \leq$ FCC Limit 3.0 for 1g SAR.