

FCC ID: 2BUPB-6T00AI

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.

314.9MHz:

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	0.3149	-17.24	0.02	-17±1	-16.00	0.03	<5	0.00282	3.00	YES

Note:dbm=dbuv/m-95.2-2.15=75.11-95.2-2.15=-22.24dBm(ERP), so the conduct peak power=-22.24-(-5)=-17.24dBm

433.96MHz:

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	0.43396	-13.93	0.04	-13±1	-12.00	0.06	<5	0.00831	3.00	YES

Note:dbm=dbuv/m-95.2-2.15=78.42-95.2-2.15=-18.93dBm(ERP), so the conduct peak power=-18.93-(-5)=-13.93dBm

Conclusion:

315MHz+433MHz supported simultaneous transmission:

315MHz+433MHz: $\Sigma \text{MPE Ratio} = 0.00282/3 + 0.00831/3 = 0.00371 \leq 1$, So passed.