

MPE ESTIMATION
FCC ID: XK3315TXA

1. Limit for Portable Equipment Exposure

Frequency	1-g SAR
100MHz-6GHz	3.0

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

2. Estimation Result

Frequency (MHz)	PK Output Power(dBm)	Output Power(mW)	Test Separation Distance (mm)	Measurement Result	1-g SAR
433.932	-11.08	0.078	5	0.01	3.0
Note: 1. use the maximum E-field strength(86.27dBuV/m) for the RF exposure evaluation 2. $E(\text{dBuV/m}) = \text{EIRP}(\text{dBm}) - 95.2$ for distance 3m so the $\text{EIRP} = 86.27\text{dBuV/m} - 95.2 = -8.93\text{dBm}$ 3. $\text{EIRP}(\text{dBm}) = \text{ERP} + 2.15\text{dBi}$ so the $\text{ERP} = -8.93\text{dBm} - 2.15\text{dBi} = -11.08\text{dBm}$					

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