

## RF Exposure Requirements

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Product Description: wireless microphone

Model No.: U-299H

FCC ID: Y4O-TXP2

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

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

- Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

- The result is rounded to one decimal place for comparison

### Calculation Result:

#### For 542-566MHz

Tx frequency range: 542.125~564.4MHz

Device category: Portable device (Distance: 5mm)

Maximum Conducted Output Power: 5.212dBm

Tune-Up output power: 6.0dBm

RF channel transmit frequency: 542.125MHz

Result: 0.586

Limit: 3.0

#### For 638-662MHz

Tx frequency range: 638.125~660.4MHz

Device category: Portable device (Distance: 5mm)

Maximum Conducted Output Power: 6.917dBm

Tune-Up output power: 7.0dBm

RF channel transmit frequency: 638.125MHz

Result: 0.801

Limit: 3.0

The exclusion thresholds is  $0.801 < 3$ , so the transmitter complies with the RF exposure requirements and the SAR is not required.