

## FCC MPE Calculation (Portable Device)

EUT Description: Robot Cleaner

Company: Moneual INC.

Model: RYDIS MR6550

FCC ID: ZBTMR6550

Frequency: 2403-2479 MHz (11 channels)

Mid-Channel: 2.441 GHz (channel 39)

Mid-Channel Peak Power, Conducted: -0.06 dBm == 0.99 mW

Antenna Gain: G = -2.43 dBi

For devices intended for the **General Population** and used in an **uncontrolled** manner, routine evaluation (SAR) for this device is not required, because the source-based time-averaged power (average conducted power or average radiated EIRP, whichever is the highest).

### Calculation:

$$\text{Limit} = 60/2.441 = 24.58 \text{ mW}$$

$$P_{\text{radiated, max}} = P_{\text{conducted, dBm}} + G_{\text{dBi}} = -0.06 \text{ dBm} + -2.43 \text{ dBi} == -2.49 \text{ dBm} = 0.56 \text{ mW}$$

### Conclusion:

The emitted power appears to be (far) below the required limit, so PASS.

Note 1: f shall be the mid-band frequency expressed in GHz; the limit calculated with this mid-band frequency applies to all channels. For PTT with body-worn or face-held modes, d is the distance from the device case to a person's body; for modules with antennas inside laptops, d is the distance from the antenna to the person's body.

Note 2: Average Power levels are always equal or below the measured Peak Power levels, which means that calculating the EIRP using the Peak power can be considered as worst case.)