



RF Exposure Requirements

1 General Information

Client Information

Applicant : Zhongshan Kebaishi Electric Appliance Co.,Ltd

Address of applicant : 2 of Fifth Floor, No.10 Yongyi 1st Road, Yongxing Industrial Park, Henglan Town, Zhongshan City,Guangdong Province 528478,China

Manufacturer : Shenzhen WELMAG Intelligence technology Co., Ltd.

Address of manufacturer : 5 Floor, 3th building, Hongtu Industrial Zone, Xixiang, Baoan district, Shenzhen,China.

General Description of E.U.T

FCC ID : 2BMKR-WMT400RS

Product Name : Remote Controller

Model No. : WMT400-RS, WMT401-RS

Model Description : Two models are identical except for the printing of keys. Therefore the full tests were performed on model WMT400-RS.

Rating : Battery 3V (2*1.5V AAA)

Battery Capacity : ---

Power Adapter : ---

Technical Characteristics of EUT

Operating Frequency : 433.92 MHz

Max. Field Strength : 78.77 dBuV/m (at 3m distance)

Modulation : ASK

Type of Antenna : PCB Printed Antenna

Antenna Gain : 2 dBi



2 RF Exposure Exemption

According to S1.1307(b)(3) and 447498 D04 Interim General RF Exposure Guidance v01, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radiofrequency energy level in excess limit for maximum permissible exposure.

FCC Rule Part 1.1307 (b)(3)(i)(A): The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A).

3 RF Exposure Evaluation

Calculated the EIRP from the radiated field strength in the far field using Equation:

$$\text{EIRP} = E_{\text{Meas}} + 20 \log(d_{\text{Meas}}) - 104.7$$

Where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dB μ V/m

d_{Meas} is the measurement distance, in m

4 Calculation Result

Radio Access Technology	Min. Distance (cm)	Prediction Frequency (MHz)	Max. Field Strength (dB μ V/m)	EIRP (dBm)	EIRP (mW)	SAR Test Exclusion Threshold (mW)	Result
SRD	0.5	433.92	78.77	-16.39	0.02	1	Pass

=====End of Report=====