CLIMAX TECHNOLOGY CO., LTD.

No. 258, Sinhu 2nd Rd., Neihu District, Taipei City 114, Taiwan (R.O.C.)

Federal Communications Commission Authorization and Evaluation Division **Equipment Authorization Branch** 7435 Oakland Mills Road Columbia, MD 21046

Applicant's declaration concerning RF Radiation Exposure

We hereby indicate that the product Product description: Repeater Model No: RP-29

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The integral antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter within the host device.

A safety statement concerning minimum separation distances from enclosure of the Product : Repeater will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6M22007-20072-C-1 and the accompanying calculations.

Company: CLIMAX TECHNOLOGY CO., LTD. Address: No. 258, Sinhu 2nd Rd., Neihu District, Taipei City 114, Taiwan (R.O.C.)

Date: 2020.08.04

Signature

George Lin



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22007-20072-C-1 FCC ID: GX9RP29F1919

3.2 Equivalent Isotropic Radiated Power (EIRP)

FCC Rule: 15.247(b)(3)

Left Module EIRP = max. conducted output power + antenna gain EIRP =-4.08 dBm + (1.81 dBi [antenna gain claimed by manufacturer] = -2.27 dBm = 0.59 mW

Right Module

EIRP = max. conducted output power + antenna gain EIRP =12.27 dBm + (1.65 dBi [antenna gain claimed by manufacturer] = 13.92 dBm = 24.66 Mw

Test equipment used: ETSTW-RE 055

3.3 Exemption Limits for Routine Evaluation according to

47 CFR FCC Part 2 Subpart J, section 2.1091

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a "worst case" or conservative prediction.

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20 cm normally can be maintained between the user and the device.

MPE Calculation Method

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time $ E ^2$, $ H ^2$ or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22007-20072-C-1 FCC ID: GX9RP29F1919 E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric) d = Separation distance between radiator and human body (m) The formula can be changed to $Pd \cdot \frac{30 \times P \times G}{377 \times d^2}$ mW/cm².

Left Module

Established separation distance is 20 cm. Operating frequency band : 918.0375-924.48 MHz

The product meets RF exposure requirement.

Because the power density of 0.0001 mW/cm² at 918.0375 MHz is below the power density limit of 0.6120 mW/cm².

Right Module

Established separation distance is 20 cm. Operating frequency band : 918.0375-924.48 MHz

The product meets RF exposure requirement.

Because the power density of 0.0049 mW/cm^2 at 918.0375 MHz is below the power density limit of 0.6120 mW/cm^2 .