FCC RF EXPOSURE REPORT

Applicant	:	Hangzhou Kangbazi Intelligent Technology Co., Ltd
Address	:	Room 511, Building 1,No.425 Qingchuan Street, Xihu District, Hangzhou City, Zhejiang Province
Equipment	:	Zigbee temperature humidity sensor
Model No.	:	KCTW1Z-04, KCTW1Z-**（* can be 0-9,A-Z,a-z or Blank, means the appearance is different）
Trade Name	:	**kangbazi**
FCC ID.	:	2A5TM-KCTW1Z

I HEREBY CERTIFY THAT :

The sample was received on Mar. 29, 2022 and the testing was completed on Apr. 08, 2022 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li / Supervisor

Device category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation)
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm^2) ☒ General Population/Uncontrolled exposure (S=1mW/cm^2)
Antenna diversity	☒ Single antenna ☐ Multiple antennas 　　☐ Tx diversity 　　☐ Rx diversity 　　☐ Tx/Rx diversity
Evaluation applied	☒ MPE Evaluation* ☐ SAR Evaluation ☐ N/A

TEST RESULTS

No non-compliance noted.

Calculation

Given $E = \dfrac{\sqrt{30 \times P \times G}}{d}$ & $S = \dfrac{E^2}{3770}$

Where   E = Field strength in Volts / meter
P = Power in Watts
G = Numeric antenna gain
d = Distance in meters
S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770 d^2}$$

Changing to units of mW and cm, using:

P (mW) = P (W) / 1000 and
d (cm) = d(m) /100

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$ **Equation 1**

Where   d = Distance in cm
P = Power in mW
G = Numeric antenna gain
S = Power density in mW / cm^2

Maximum Permissible Exposure

Test Mode	Frequency band (MHz)	Measured power(dBm)	Max.TuneupP ower(dBm)	Peak output power(mW)	Antenna gain (*Numeric*)	Distance (cm)	Power density (mW/cm2)	Limit (mW/cm2)
ZigBee	2405-2480	6.14	7.14	5.176	1.28	20	0.001320849	1

Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

----------------------- **End of the report** -----------------------