MPE REPORT
FCC ID: 2A3NY-KG-SS-V1

Product	:	Radar Sensor
Model Name	:	KG-SS-V1、KG-SS-V2、KG-SS-VH1、KG-SS-VH2、KG-SS-VHPro
Brand	:	KuaiGolf®
Report No.	:	PTC21051004902E-FC02

Prepared for

KUAI internet technology development (Shanghai) Co., Ltd

16th Floor, No.127 Guotong Road, Yangpu District, Shanghai (Centralized Registration Place)

Prepared by

Precise Testing & Certification Co., Ltd

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

1   TEST RESULT CERTIFICATION

Applicant's name	:	KUAI internet technology development (Shanghai) Co., Ltd
Address	:	16th Floor, No.127 Guotong Road, Yangpu District, Shanghai (Centralized Registration Place)
Manufacture's name	:	KUAI internet technology development (Shanghai) Co., Ltd
Address	:	16th Floor, No.127 Guotong Road, Yangpu District, Shanghai (Centralized Registration Place)
Product name	:	Radar Sensor
Model name	:	KG-SS-V1、KG-SS-V2、KG-SS-VH1、KG-SS-VH2、KG-SS-VHPro
Standards	:	FCC CFR47 Part 15 Section 15.247
Test procedure	:	ANSI C63.10:2013
Test Date	:	Sept.06, 2021 to Sept. 26, 2021
Date of Issue	:	Oct. 25, 2021
Test Result	:	Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:
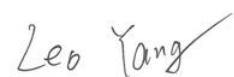
Leo Yang

Leo Yang / Engineer

Technical Manager:

Chris Du

Chris Du / Manager

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: $Pd = (Pout*G)\backslash (4*pi*R^2)$

Where

Pd= Power density in mW/cm2

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm (20cm)

Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

R=20cm BT:
Peak Power: [2480MHz, 2.122±1dBm (2.052mW) output power]
Gain:0dBi=1
 $Pd = (Pout*G) \backslash (4*pi*R^2)$

So , Pd= 0.00041 mW/cm2

Conclusion:

For the max result: 0.00041≤ 1.0 for 1g SAR, No SAR is required

----END OF REPORT----