



## 1 Version

### Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20240601135E-02	Rev.01	Initial report	2024-07-12

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### 3 General Information

#### 3.1 Client Information

Applicant:	Shenzhen YiGuo Electronic Technology Co., Ltd.
Address of Applicant:	3F-10 Building, JiaYiDa Industrial Park, LiaoKeng New Village, Langxin community,Shiyan Street,Baoan District,ShenZhen,China
Manufacturer:	Shenzhen YiGuo Electronic Technology Co., Ltd.
Address of Manufacturer:	3F-10 Building, JiaYiDa Industrial Park, LiaoKeng New Village, Langxin community,Shiyan Street,Baoan District,ShenZhen,China
Factory:	Shenzhen YiGuo Electronic Technology Co., Ltd.
Address of Factory:	3F-10 Building, JiaYiDa Industrial Park, LiaoKeng New Village, Langxin community,Shiyan Street,Baoan District,ShenZhen,China

#### 3.2 General Description of EUT

Product Name:	Solar tire pressure monitoring
Model No.:	KM-2T, KM-4T, KM-6T, KM-BT, KM-TK, KM-OE
Test Model No.:	KM-6T
Trade Mark:	N/A
Software Version:	V01
Hardware Version:	V5
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable
Operation Frequency:	433.92MHz
Channel Numbers:	1
Modulation Type:	FSK
Antenna Type:	PCB antenna
Antenna Gain:	-5.76dBi
Power Supply:	Button battery: DC 3V

## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 4.1.3 EUT RF Exposure

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

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 $\mu$ V/m  
 $d_{Meas}$  is the measurement distance, in m

Channel	EIRP (dBm)	Maximum tune-up Power (mW)	Exclusion threshold (mW)
Lowest (2403MHz)	-20.31	0.01	1

EIRP=74.89-95.2=-20.31dbm=0.01mW<1mW

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20240601135E-01.