

	TEST REPOR	 T							
FCC ID:	2AGEB-TCT								
Test Report No::	TCT240607E029								
Date of issue::	Jun. 18, 2024								
Testing laboratory:	SHENZHEN TONGCE TESTING	LAB							
Testing location/ address:	2101 & 2201, Zhenchang Factory Subdistrict, Bao'an District, Shen People's Republic of China								
Applicant's name::	Shenzhen ZKC Software Techno	henzhen ZKC Software Technology Co., Ltd							
Address::	1st Floor, No. 1 Block, Zhongkenuo Industry Park, Beiqi Road, Xixiang Town, Bao'an District, Shenzhen, China								
Manufacturer's name:	Shenzhen ZKC Software Technology Co., Ltd								
Address:	1st Floor, No. 1 Block, Zhongkenuo Industry Park, Beiqi Road, Xixiang Town, Bao'an District, Shenzhen, China								
Standard(s):	KDB 447498 D01 General RF Ex	posure Guidance v06	6						
Product Name::	TPMS Configuration Tool								
Trade Mark:	N/A								
Model/Type reference:	TCT	(c <sup>1</sup> )							
Rating(s)::	Rechargeable Li-ion Battery DC	3.6V							
Date of receipt of test item:	Jun. 07, 2024	(C)	(C <sup>(</sup> )						
Date (s) of performance of test:	Jun. 07, 2024 ~ Jun. 18, 2024								
Tested by (+signature) :	Ronaldo LUO	Porale Lange							
Check by (+signature):	Beryl ZHAO								
Approved by (+signature):	Tomsin	Joms is st							

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# 1. General Product Information

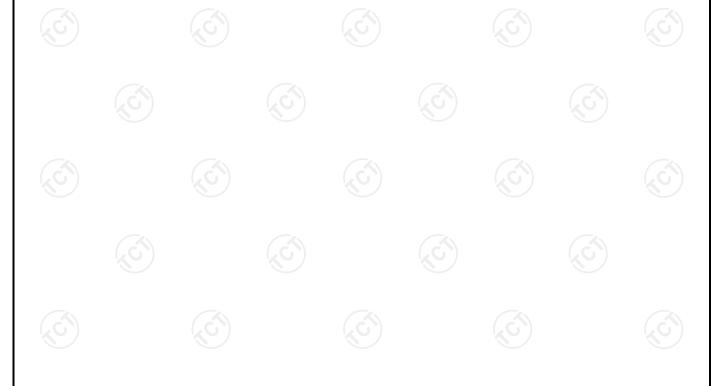
# 1.1. EUT description

Product Name:	TPMS Configuration Tool
Model/Type reference:	тст
Sample Number:	TCT240607E007-0101
Operation Frequency:	For BLE: 2402MHz~2480MHz For WIFI: 2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20)) 2422MHz~2452MHz (802.11n(HT40)) For RFID: 125kHz
Modulation Type:	For BLE: GFSK For WIFI: DSSS(802.11b), OFDM (802.11g/802.11n) For RFID: FSK
Antenna Type:	For BLE/WIFI: PCB Antenna For RFID: Internal Antenna
Antenna Gain:	BLE/WIFI: 0.94dBi
Rating(s):	Rechargeable Li-ion Battery DC 3.6V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

# 1.2. Model(s) list

None.



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# 2. General Information

## 2.1. Test environment and mode

Item	Normal condition								
Temperature	+25°C								
Voltage	DC 3.6V								
Humidity	56%								
Atmospheric Pressure:	1008 mbar								
Test Mode:									
Engineering mode:	Keep the EUT in continuous transmitting by select channel								

## 2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1			1	1

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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## 3. Facilities and Accreditations

#### 3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

**Designation Number: CN1205** 

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339





### 4. Test Results and Measurement Data

According to KDB 447498 D01 General RF Exposure Guidance v06, 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 level in excess of the commission's guidance.

The 1-g SAR test exclusion thresholds:

- a) For 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by: [(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq$  3.0 for 1-g SAR, where
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
  - The result is rounded to one decimal place for comparison
- b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g test exclusion thresholds are determined by the following (also illustrated in Appendix B):
  - 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)·(f<sub>(MHz)</sub>/150)]} mW, for 100 MHz to 1500 MHz
  - 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)·10]} mW, for > 1500 MHz and ≤ 6 GHz
- c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
  - 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by [1 + log(100/f<sub>(MHz)</sub>)]
  - 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by ½

· BLE(1M):

Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 19	2.440	0.55	0±1	1	1.26	5	0.39	3.0

BLE(2M):

Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 19	2.440	0.44	0±1	(1)	1.26	5	0.39	3.0



### · WIFI:

Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 03	2.422	8.90	8±1	9	7.94	5	2.47	3.0

## RFID

Frequency (MHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	SAR Exclusion threshold per 4.3.1 c)2) in mW
0.125	-5.33	-6±1	-5	0.32	5	925.70

Note:  $E[dB\mu V/m]=87.75$ computational formula  $ERP[dBm] = E[dB\mu V/m] + 20 log (d[m]) - 104.77+2.15;$ 

#### Result:

Base on the calculation value, No SAR measurement is required.

\*\*\*\*\*END OF REPORT\*\*\*\*\*