	<b>TEST REPOR</b>	T			
FCC ID :	2AUAR393TKX11				
Test Report No:	TCT230425E056	$\langle \zeta \rangle$			
Date of issue:	Jul. 10, 2023				
Testing laboratory:	SHENZHEN TONGCE TESTIN	G LAB			
Testing location/ address:	2101 & 2201, Zhenchang Facto Fuhai Subdistrict, Bao'an Distric 518103, People's Republic of C	ct, Shenzhen, Gua			
Applicant's name::	THINKCAR TECH CO., LTD.	$\langle \zeta \rangle$			
Address:	2606, building 4, phase II, Tiana Bantian, Longgang District, She		u community,		
Manufacturer's name :	THINKCAR TECH CO., LTD.		3		
Address:	2606, building 4, phase II, Tiana Bantian, Longgang District, She		a community,		
Standard(s):	KDB 447498 D01 General RF E	Exposure Guidanc	e v06		
Product Name::	Remote Diagnostic Service		N. C.		
Trade Mark:	THINKCAR, XHINKCAR, MUCAR				
Model/Type reference :	TKX11, THINKTOOL Expert 39 THINKTOOL Platinum 393, TH				
Rating(s):	Adapter Information: Model: PSYB0502500 Input: AC 100-240V, 50/60Hz, 0 Output: DC 5.0V, 2.5A, 12.5W Rechargeable Li-ion Battery DC		Ś		
Date of receipt of test item	Apr. 25, 2023		3		
Date (s) of performance of test:	Apr. 25, 2023 - Jul. 10, 2023				
Tested by (+signature) :	Brews XU	Forents out	REFE CO		
Check by (+signature) :	Beryl ZHAO	Baylon			
Approved by (+signature):	Tomsin	Tomsitis	BA		

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# **1. General Product Information**

### 1.1. EUT description

Product Name:	Remote Diagnostic Service		
Model/Type reference:	ТКХ11		
Sample Number:	TCT230425E041-0101		
Operation Frequency:	315MHz, 433.92MHz	S S	
Modulation Type:	FSK		
Antenna Type:	Internal Antenna		
Antenna Gain:	0dBi		
Rating(s):	Adapter Information: Model: PSYB0502500 Input: AC 100-240V, 50/60Hz, 0.6A Max Output: DC 5.0V, 2.5A, 12.5W Rechargeable Li-ion Battery DC 3.8V		

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

No.		М	odel No.			Test	ed with	
1	TKX11						$\boxtimes$	
)ther mode	THINKTOOL Expert 393, THINKTOOL Euro 393, THINKTOOL Platinum 393, THINKTOOL X10 Pro, TKX10							
layout, di			ivative model arks and colo					
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						Pa	ge 3 of 6	

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## 2. General Information

#### 2.1. Test environment and mode

ltem		Normal condition	n	
Temperature		+25ºC		
Voltage		DC 3.8V		$(\mathbf{C})$
Humidity		56%		
Atmospheric Pressure:		1008 mbar		(c
Test Mode:				
Engineering mode:	Keep the EU	T in continuous transmi	tting by sele	ect 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
Mater				

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

#### 4.1. Requirements

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 for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  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

### 4.2. Test Result

	Frequency (MHz)	Electric field strength (dBuV/m)@3m	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
Ī	315	86.17	-13.76	-13±1	-12	0.063	5	0.0002	3.0
	433.92	94.07	-5.86	-5±1	-4	0.40	5	0.001	3.0

Note: computational formula

 $EIRP[dBm] = E[dB\mu V/m] + 20 \log (d[m]) - 104.77;$ 

Conducted Power = EIRP-4.7;

where

E is the electric field strength in V/m; d is the measurement distance in meters (m) **Result:** 

Because the max tune up power is less than the exemption limit, so No SAR measurement is required.

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