TCT通测检测 TESTING CENTRE TECHNOLOGY								
TEST REPORT								
FCC ID: 2AIGY-C10G								
Test Report No::	TCT240902E017	$(\mathcal{C})$						
Date of issue:	Sep. 05, 2024							
Testing laboratory::	SHENZHEN TONGCE TESTING	G LAB						
Testing location/ address:	Fuhai Subdistrict, Bao'an Distric	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China						
Applicant's name::	Dongguan Saftire Auto Safety T		$(\mathbf{c})$					
Address:	1, 3rd Floor, Small technology co Songshan Lake, DongGuan, Ch	•						
Manufacturer's name :	Dongguan Saftire Auto Safety To							
Address:	1, 3rd Floor, Small technology companies Pioneer Park, Songshan Lake, DongGuan, China							
Standard(s):	KDB 447498 D01 General RF Exposure Guidance v06							
Product Name::	Tire pressure sensor							
Trade Mark:	N/A							
Model/Type reference :	C10G, T02W, T03W, T05F, T07W, T08W, T10W, T10W-B, T03G, T09-A, T09-B, T09-C, T09-D, T04Z, T12S, T12A, T12B, T12C, T06E-J, T06E-B, Z01, C05WB, C10G-B, C15W, C15, C15-B, C16-A, C16-B, M01-A, M01-B, M01-C							
Rating(s):	DC 3V	$\langle \mathcal{C} \rangle$						
Date of receipt of test item	Sep. 02, 2024							
Date (s) of performance of test:	<sup>F</sup> Sep. 02, 2024 ~ Sep. 05, 2024							
Tested by (+signature) :	Ronaldo LUO Ronald Folisce							
Check by (+signature) :	Beryl ZHAO							
Approved by (+signature):	Tomsin							
General disclaimer:								

#### General disclaimer:

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# **1. General Product Information**

## 1.1. EUT description

Product Name:	Tire pressure sensor		$(c^{\star})$
Model/Type reference:	C10G		
Sample Number	TCT240902E0016-0101		
Operation Frequency:	433.92MHz	S.	
Modulation Type:	FSK		
Antenna Type:	Sheet Metal Antenna		
Antenna Gain:	1dBi		
Rating(s):	DC 3V		

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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.		Model	No.		Tested with
1	1 C10G				
Other models	T02W, T03W, T09-A, T09-B, T T06E-J, T06E- C16				
		odels are derivative del names. So the te			
					Page 3 of 6

## 2. General Information

#### 2.1. Test environment and mode

Normal condition					
(C					
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	
/	/	/	/	/	
<u> </u>					

#### 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
- SHENZHEN TONGCE TESTING LAB
- CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development 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  $\leq$  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
433.92	71.39	-28.54	-29±1	-28	0.002	5	0.0002	3.0

Note: computational formula

EIRP[dBm] = E[dBµV/m] + 20 log (d[m]) - 104.77; Max. 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\*\*\*\*\*