



Fangguang Inspection & Testing Co., Ltd.



RF Exposure Evaluation Declaration

Report No.: S20250512614302

Issue Date: 07-23-2025

Applicant: Wenzhou Woma Auto Parts Co..Ltd.
Floor 5th, Building 2nd, Changqiao Auto Parts Pioneer

Address: Park, Tangxia Town, Rui'an City, Wenzhou City,
Zhejiang Province, China

FCC ID: 2BPVITPMSTY046

Product: TPMS SENSOR

Model No.: TY-0910466

Trade Mark: /

FCC Rule Part(s): CFR 47, FCC Part 2.1091 Radio frequency radiation
exposure evaluation: mobile devices.

Item Receipt date: May. 14, 2025

Test Date: May. 19 ~ Jul. 09, 2025

Compiled By

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Approved By

Line Chen

(Line Chen)
Engineer Manager



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S20250512614302	Rev. 01	/	07-23-2025

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	TPMS SENSOR
Model Name:	TY-0910466
Trade Mark:	/
Input Voltage Range:	DC 3V (Button Cell)
Software Version:	WM_V3.1_V13
Hardware Version:	ZSN13_V1.5
Note:	This information is provided by the Customer and its authenticity is the responsibility of the Customer.

1.2. Product Specification Subjective to this Report

Operating Frequency	315MHz & 433.92MHz
Channel number	2
Type of modulation	FSK/ASK
Antenna Type:	LOOP Antenna
Antenna Gain:	0dBi

2. RF Exposure Evaluation

2.1. Limits

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)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	f/1500	6
1500-100,000	--	--	1	30

f = Frequency in MHz

Calculation Formula: $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

r = distance between observation point and center of the radiator in cm

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

2.2. Test Result of RF Exposure Evaluation

Product	TPMS SENSOR					
Test Item	RF Exposure Evaluation					

Mode	Maximum OutputPower (dB μ V/m)	Maximum OutputPower (dBm)	Antenna Gain (dBi)	PG		MPE (mW/cm ²)	MPE Limits (mW/cm ²)
				(dBm)	(mW)		
TX at 315MHz	71.48	-23.78	0	-23.78	0.00419	0.000000834	0.21
TX at 433.92MHz	76.70	-18.56	0	-18.56	0.01393	0.000002771	0.29

Remark: 1. MPE use distance is 20cm from manufacturer declaration of user manual.

Remark: 2. Use the maximum gain of all bands when evaluating.

Remark: 3. Maximum OutputPower refers to Report S20250512614301.

Remark: 4. EIRP(dBm)=E(dB μ V/m)+20log(D)-104.8, where D is the measurement distance in m.

During the test, D=3m.

CONCULISON:

The Max Power Density at R (20 cm) = 0.000002771mW/cm² < 0.29mW/cm².

So the EUT complies with the requirement.

Statement

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3/F., Comprehensive Laboratory Building, No.8, Ningyun Road, Xinwu District, Wuxi, Jiangsu, China (Ningyun Road Laboratory)

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