



Report No.: PTC23052210301E-FC02

FCC TEST REPORT

FCC ID: 2BBAE-DP-1

Product	:	2.4G TPMS
Model Name	:	DP-1
Brand	:	DEEPMOTO
Report No.	:	PTC23052210301E-FC02
Prepared for		
Shenzhen Shendu Software Co., Ltd.		
308, Building A, Wenle Industrial Zone, Longzhu Community, Xixiang Street, Bao an District, Shenzhen		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.		



Report No.: PTC23052210301E-FC02

TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Shendu Software Co., Ltd.
Address : 308, Building A, Wenle Industrial Zone, Longzhu Community,
Xixiang Street, Bao an District, Shenzhen
Manufacture's name : Shenzhen Shendu Software Co., Ltd.
Address : 308, Building A, Wenle Industrial Zone, Longzhu Community,
Xixiang Street, Bao an District, Shenzhen
Product name : 2.4G TPMS
Model name : DP-1
Test procedure : FCC CFR47 Part 1.1307(b)(1)
Test Date : May. 24, 2023 to Jun. 20, 2023
Date of Issue : Aug. 11, 2023
Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Ronnie Liu'.

Ronnie Liu / Manager



Contents

	Page
2 TEST SUMMARY	4
3 GENERAL INFORMATION	5
3.1 GENERAL DESCRIPTION OF E.U.T.	5
4 RF EXPOSURE	6
4.1 REQUIREMENTS	6
4.2 THE PROCEDURES / LIMIT	6
4.3 MPE CALCULATION METHOD	7
4.4 TEST RESULT	7



Report No.: PTC23052210301E-FC02

2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	2.4G TPMS
Model Name	:	DP-1
Additional model	:	N/A
Specification	:	BLE
Operation Frequency	:	2402-2480MHz
Number of Channel	:	40 channels For DTS
Type of Modulation	:	GFSK, For DTS
Antenna installation	:	External antenna
Antenna Gain	:	-1.26 dBi
Power supply	:	DC 3V
Hardware Version	:	1.2
Software Version	:	1.1.6



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta \phi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Mode	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
2462	0.75	-4.29	-4.29 ± 1	0.468813	0.000093	1	Pass

*****THE END REPORT*****