



RF EXPOSURE REPORT

Report No.: DDT-B25050812-5E02

Applicant	:	Suzhou Sate Auto Electronic Co., Ltd.
Applicant Address	:	Building 36, Loufeng Venture Capital Industrial Park, Yangtai Road, Suzhou industrial Park, Jiangsu Province, China
Equipment Under Test	:	TPMS Sensor
Model No.	:	TSB48-S
Trade Mark	:	
FCC ID	:	TTETSB48-S
Manufacturer	:	Suzhou Sate Auto Electronic Co., Ltd.
Manufacturer Address	:	Building 36, Loufeng Venture Capital Industrial Park, Yangtai Road, Suzhou industrial Park, Jiangsu Province, China
Issued By	:	Suzhou Dongdian Testing Service Co., Ltd.
Address	:	Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China Tel: +86-0512-62531270, E-mail: ddt@dgddt.com , http://www.ddttest.com



REPORT

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Test Report Declare

Applicant	:	Suzhou Sate Auto Electronic Co., Ltd.
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Standard Used:

KDB447498 D04 Interim General RF Exposure Guidance v01

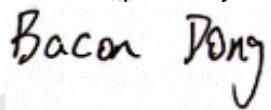
We Declare:

The equipment described above is tested by Suzhou Dongdian Testing Service Co.,Ltd and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Suzhou Dongdian Testing Service Co.,Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.

Report No:	DDT-B25050812-5E02		
Date of Receipt:	May. 16, 2025	Date of Test:	May. 21, 2025 ~ May. 29, 2025

Prepared By:



Bacon Dong/Engineer

Reviewed By:



Leon Wu/Director

Authorized By:



Chris Zhong/EMC Manager

Note:

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Suzhou Dongdian Testing Service Co., Ltd.

The results reported herein have been performed in accordance with the laboratory's terms of accreditation.

This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jun. 05, 2025	

1. General information

1.1. Description of Equipment

EUT Description	: TPMS Sensor
Model Number	: TSB48-S
Serial Number	: N/A
Hardware Version	: V1.0
Software Version	: N/A
Sample Type	: Vehicle Device
EUT function description	: Please refer to user manual of this device
Power supply	: Internal 3V DC 2032 Lithium battery power supply
Support Frequency	: 433.92MHz
Max. Power	: 76.00dB μ V/m@3m (Test result)
Max. EIRP	: -19.26dBm/ 0.011858 (mW) (Calculate result)
Conducted Power	-4.36 dBm (Measured values)
Type of Modulation	: FSK
Antenna Type	: Internal PCB loop antenna

Note:

$$EIRP(W) = (E1 * d)^2 / 30$$

$$EIRP(dBm) = 10 \log_{10}(EIRP(W)) + 30 = E2 + 20 \log(d) - 104.8$$

Conducted Power = Max. EIRP - Antenna Gain

E1: Electric field strength in V/m

E2: Electric field strength in dB μ V/m

d: measurement distance in m

1.2. Assess laboratory

Lab Information	<p>Company Name: Suzhou Dongdian Testing Service Co.,Ltd.</p> <p>Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China.</p> <p>Tel: +86-0512-62531270, E-mail: ddt@dgddt.com, http://www.ddttest.com</p>
Accreditation Certificate	<p>A2LA (Certificate No.: 7346.01)</p> <p>Suzhou Dongdian Testing Service Co.,Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1397)</p> <p>Suzhou Dongdian Testing Service Co.,Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p> <p>IC (IC Designation No.: 32952; CAB No.:CN0182)</p> <p>Suzhou Dongdian Testing Service Co.,Ltd. has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.</p>
<p>Note 1: All tests measurement facilities use to collect the measurement data are located at Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, China.</p> <p>Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.</p> <p>Note 3: The test anechoic chamber in Suzhou Dongdian Testing Service Co.,Ltd had been</p>	

calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

2. RF Exposure Evaluation

2.1. Requirement

Per § 1.1307(b)(3)(i)(A), a single RF source is *exempt RF device* (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions.

This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

2.2. Estimation result

Mode	Band (MHz)	Conducted Power (dBm) (Measured values)	Conducted Power Tune-up (dBm)	Conducted Power Tune-up (mW)	Limit (mW)
Transmitter Emissions	433.92	-4.36	-4	0.398107	1

Conclusion: No SAR and evaluation of exposure required since transmitter power is below FCC threshold 1mW.

END OF REPORT