

FCC TEST REPORT

Report No.....: AB26070191FW02

FCC ID.....: 2BXBH-S-ALB

Applicant.....: Shenzhen VAPON Technology Co. Ltd

Address.....: Room 506, Fuhong Building, No. 3 Dayang Road, Qiaotou, Fuhai Street, Fuyong, Shenzhen, Guangdong Province , china

Manufacturer.....: Shenzhen VAPON Technology Co. Ltd

Address.....: Room 506, Fuhong Building, No. 3 Dayang Road, Qiaotou, Fuhai Street, Fuyong, Shenzhen, Guangdong Province , china

Product Name.....: Tire Pressure Sensor (Programmable Universal Type)

Trade Mark.....: Vapon

Test Model.....: S-ALB

Additional Model(s).....: S-AL, S-RB

Standard.....: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1

Date of Receipt.....: 2026.07.10

Date of Issue.....: 2026.07.21

Test Result.....: Pass

Compiled by:
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Huaijie Li

Supervised by:
(Printed Name + Signature) David Huang

David Huang

Approved by:
(Printed Name + Signature) Jay Liu

Jay Liu

Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

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FCC TEST REPORT

EUT.....	: Tire Pressure Sensor (Programmable Universal Type)
Test Model.....	: S-ALB
Applicant.....	: Shenzhen VAPON Technology Co. Ltd
Address.....	: Room 506, Fuhong Building, No. 3 Dayang Road, Qiaotou, Fuhai Street, Fuyong, Shenzhen, Guangdong Province , china
Manufacturer.....	: Shenzhen VAPON Technology Co. Ltd
Address.....	: Room 506, Fuhong Building, No. 3 Dayang Road, Qiaotou, Fuhai Street, Fuyong, Shenzhen, Guangdong Province , china

Test Result	Positive
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The test report merely corresponds to the test sample.

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REPORT VERSION

Version No.	Issue Date	Description
01	2026.07.21	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name	Tire Pressure Sensor (Programmable Universal Type)
Trade Mark	Vapon
Model/Type Reference	S-ALB
Listed Model(s)	S-AL, S-RB
Model Difference	The difference between the main model and the series models lies only in their laser engraving markings.
Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 3V from battery
Battery	DC 3V
Test Sample(s) Number:	ABA391260701-S001 (Engineer Sample)
Radio Specification Subject to this Report	
Operating Frequency:	315MHz
Modulation Type:	ASK
Channel Number(s):	1
Antenna Type:	Internal Antenna
Antenna Gain:	0 dBi

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +86 755 85250797

E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

Company Number: 33924

CAB identifier: CN0185

2. RF EXPOSURE EVALUATION

2.1 Limit

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)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	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				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

f = frequency in MHz

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm², P_{out} = 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

P_d is the limit of MPE, 1 mW/cm². 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.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.2 Evaluation Result

Mode	Power (dBuV/m)	Antenna Gain	Max EIRP(dBm)	Max EIRP(mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
315MHz	65.41	0	-29.79	0.0010495	0.00000021	0.21	PASS

$EIRP = E - 20 \log(3) - 104.8 = 65.41 \text{ dBuV/m} - 95.2 = -29.79 \text{ dBm}$, E = electric field strength in dB μ V/m

So a SAR test is not required

*****THE END*****