MPE Report

Report No.:STS2606087H02

Issued for

THINKCAR TECH CO., LTD.

2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China

Product Name:	Automotive Diagnostic Device
Brand Name:	THINKCAR, MUCAR
Model Name:	GVCI
Series Model(s):	N/A
FCC ID:	2AUARTKGVCI
Test Standards:	FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

TEST REPORT

Applicant's Name.....: THINKCAR TECH CO., LTD.

Address .....: 2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China

Manufacturer's Name.....: THINKCAR TECH CO., LTD.

Address .....: 2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen, China

Product Description

Product Name.....: Automotive Diagnostic Device

Brand .....: THINKCAR, MUCAR

Model Number .....: . GVCI

Series Model(s).....: N/A

Standards .....: FCC 47CFR §2.1091
447498 D04 Interim General RF Exposure Guidance v01

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Date of Test

Date of receipt of test item.....: 12 June 2026

Date (s) of performance of tests.....: 12 June 2026 ~ 16 July 2026

Date of Issue.....: 16 July 2026

Test Result.....: **Pass**

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Skylar. Li

(Skylar Li)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	16 July 2026	STS2606087H02	ALL	Initial Issue

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

<table>
<tr><td>Product Name</td><td>Automotive Diagnostic Device</td></tr>
<tr><td>Brand</td><td>THINKCAR, MUCAR</td></tr>
<tr><td>Model Name</td><td>GVCI</td></tr>
<tr><td>Series Model(s)</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>N/A</td></tr>
<tr><td>Product Description</td><td>The EUT is Automotive Diagnostic Device
<table>
<tr><td>Operation Frequency:</td><td>Bluetooth:2402~2480 MHz
2.4G WLAN:
802.11b/g/n(20MHz): 2412~2462MHz
802.11n(40MHz):2422~2452MHz
5.2G RLAN:
IEEE 802.11a/ n(HT20)/ac(VHT20): 5.180GHz-5.240GHz
IEEE 802.11n(HT40)/ac(VHT40): 5.190GHz-5.230GHz
IEEE 802.11ac(VHT80) : 5.210GHz
5.8G RLAN:
IEEE 802.11a/ n(HT20)/ac(VHT20): 5.745GHz-5.825GHz
IEEE 802.11a/ n(HT40)/ac(VHT40): 5.755GHz-5.795GHz
IEEE 802.11ac(VHT80): 5.775GHz</td></tr>
<tr><td>Modulation Type:</td><td>BT BR(1Mbps): GFSK
BT EDR(2Mbps): π/4-DQPSK
BT EDR(3Mbps): 8DPSK
2.4G WLAN:
802.11b(DSSS):CCK,DQPSK,DBPSK
802.11g(OFDM):BPSK,QPSK,16-QAM, 64-QAM
802.11n(OFDM):BPSK,QPSK,16-QAM, 64-QAM
5G RLAN:
802.11a(OFDM):BPSK,QPSK,16-QAM, 64-QAM
802.11n(OFDM):BPSK,QPSK,16-QAM, 64-QAM
802.11ac(OFDM):BPSK,QPSK,16-QAM, 64-QAM,256-QAM</td></tr>
<tr><td>Antenna gain:</td><td>Bluetooth:-1.88dBi
2.4G WLAN: 0.48dBi
5.2G RLAN: -1.13dBi
5.8G RLAN: 3.26dBi</td></tr>
<tr><td>Antenna Designation:</td><td>Bluetooth: PCB
2.4G WLAN/5G RLAN: FPC</td></tr>
</table></td></tr>
<tr><td>Power Rating</td><td>Input: 9-18V 130mA</td></tr>
<tr><td>Adapter</td><td>N/A</td></tr>
</table>

Battery	N/A
Hardware Version	V1.0
Software Version	V1.0
Sample Number	260612003-2

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD
Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th}\ (\text{mW}) = \begin{cases} ERP_{20\ cm}(d/20\ \text{cm})^x & d \le 20\ \text{cm} \\ ERP_{20\ cm} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);

(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least λ/2π, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of λ/4 or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a}\frac{P_i}{P_{th,i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{th,j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{Exposure\ Limit_k}\leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth,j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.

2.3 TEST RESULT

Tune up

RF Function	Tune Up Power (dBm)	Tune Up Power (dBm)
BT	2±1	3
BLE	2±1	3
2.4G WLAN	18±1	19
5.2G RLAN	15±1	16
5.8G RLAN	14±1	15

RF Function	Frequency (GHz)	Separation distance (cm)	EIRP (dBm)	ERP (dBm)	ERP (W)	Limit (W)	Ratio	Result
BT	2.441.	20	1.12	-1.03	0.001	0.768	0.001	Pass
BLE	2.44	20	1.12	-1.03	0.001	0.768	0.001	Pass
2.4G WLAN	2.462	20	19.48	17.33	0.054	0.768	0.070	Pass
5.2G RLAN	5.24	20	14.87	12.72	0.019	0.768	0.024	Pass
5.8G RLAN	5.785	20	18.26	16.11	0.041	0.768	0.053	Pass

Multiple transmission:

BT+2.4G WLAN+5.8G RLAN =0.001+0.070+0.053=0.124＜1

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements.

2. ERP=EIRP-2.15

※※※※※END OF THE REPORT※※※※※