FCC MPE TEST REPORT

FCC ID:2AWF9-GBW5A

Product: Vehicle wireless

Trade Name: N/A

Model Name: W5

Serial Model: W5S, W5C, W02E, W02, W02S, W02H, A2, A3

Report No.: UNIA21031105ER-01

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name:	ShenZhenshi GYBB Technology Co., Ltd.
Address ·	11F, Building 11#, E-commerce Intl. Centre, China South City, Pinghu, LongGang, Shenzhen, Guangdong, China
Manufacture's Name:	ShenZhenshi GYBB Technology Co., Ltd.
Address:	11F, Building 11#, E-commerce Intl. Centre, China South City, Pinghu, LongGang, Shenzhen, Guangdong, China
Product description	
Product name:	Vehicle wireless
Trade Mark:	N/A
Model and/or type reference .:	W5, W5S, W5C, W02E, W02, W02S, W02H, A2, A3
Standards:	FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03
Co., Ltd., and the test results with the FCC requirements. A report. This report shall not be reproducument may be altered or personnel only, and shall be reported.	·
Prepared by:	Bob (image) Bob liao/Editor
Reviewer:	Kahn yang/Supervisor
Approved & Authorized Sign	One A. I.

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

	ChannelList										
Channel Frequency(KHz) Channel Frequency(M											
01	125										

The EUT antenna is Coil Antenna. No antenna other than that furnish edby the responsible party shall be used with thedevice.

- 1. SUMMARY OF TESTRESULTS
- 1.1 Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Appsv03

FCC CFR 47								
Standard Section	Test Item	Judgment	Remark					
FCC CFR 47 part1,	Electric Field Strength (E) (V/m)	PASS						
1.1310 KDB680106 D01v03(3)(3)	Magnetic Field Strength (H) (A/m)	PASS						

Note:1:Charging frequency is less than 1 MHz;

Yes, The working frequency of the prototype is 125KHz.

2:The output power of each primary coil is less than 15 watts;

Yes, The maximum output power of the prototype is 15 watts.

3:The energy transfer only includes the primary and secondary coils. Some charging systems contain multiple primary coils, which can detect multiple charged products. The coupling of energy is only between the paired primary and secondary coils.

Yes, the transfer system includes only single primary and secondary coils.

4:Client device is placed directly in contact with the transmitter.

Yes.

5:Mobile exposure conditions only (mobile exposure conditions are not covered by this exclusion).

Yes, the EUT is for mobile exponsure conditions only.

6:The aggregate H-field strengths at 15 cmsurrounding the device and 20cm above the top surface form all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, the EUT h-field strengths levels are less than 50% of the MPE limit.

1.2 MEASUREMENTUNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based onastandard uncertainty multiplied by a coverage factor of k=2, providing a level of confidenceofapproximately 95%.

No.	Item	Uncertainty
1	Allemissions,radiated(<30M)(9KHz-30MHz)	±2.45dB
2	Temperature	±0.5°C
3	Humidity	±2%

1.3 TestInstruments

Description	Brand	Model No.	Frequency Range	Calibrated Until	
Broadband Field Meter	NARDA	NBM-550		Sep. 01, 2021	
Magnetic Field Meter	NARDA	ELT-400	1–400kHz	Sep. 01, 2021	
Magnetic Probe	NARDA	HF-3061	300kHz-30MHz	Sep. 01, 2021	
Magnetic Probe	NARDA	HF-0191	27-1000MHz	Sep. 01, 2021	
Broadband Field Meter	NARDA	NBM-550	_	Sep. 01, 2021	
Electric Field Meter	COMBINOVA	EFM 200	5Hz-400kHz	Sep. 01, 2021	
E-Field Probe	NARDA	EF-0391	100kHz–3GHz	Sep. 01, 2021	
E-Field Probe	NARDA	EF-6091	100MHz-60GHz	Sep. 01, 2021	

NOTE: The calibration interval of the above test instruments is 12 months.

2 MAXIMUM PERMISSIBLEEXPOSURE

2.1 MAXIMUM PERMISSIBLEEXPOSURE

Limit of Maximum PermissibleExposure

	Limits for Oc	cupational / Controllec	I Exposure	
FrequencyRange(M Hz)	ElectricFieldStrengt h (E)(V/m)	MagneticField Strength (H)(A/m)	Power Density(S) (mW/cm²)	Averaging Time E ², H ² or S (minutes)
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
	Limits for Genera	al Population / Uncontr	olled Exposure	
FrequencyRange(M Hz)	ElectricFieldStrengt h (E)(V/m)	MagneticFieldStreng th (H)(A/m)	Power Density(S)(mW/cm²	AveragingTime E ², H ² orS(minutes)
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	30

Note 1: f = frequency in MHz; *Plane-wave equivalent power density.

^{2:} For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

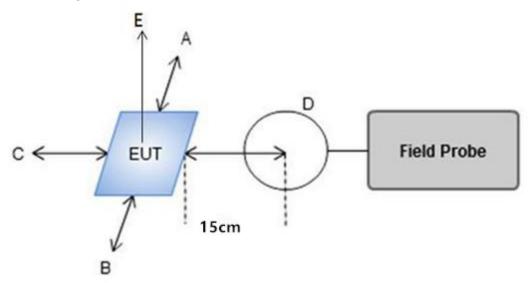
^{3:} Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

3.TESTPROCEDURE

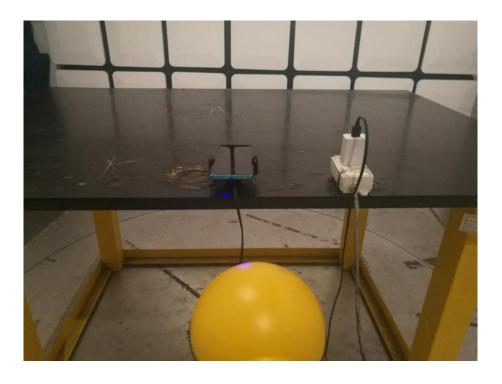
a. For devices designed for typical desktop applications, such a wireless charging pads,RFexposure evaluation should be conducted assuming a user separation distance of 15 cm.

E and H field strength measurements or numerical modeling may be used todemonstratecompliance. Measurements should be made from all sides and the top of theprimary/clientpair at the 15 cm surrounding the device and 20 cm above the top surface.

4.1 TESTSETUP



4.2 TESTPHOTO



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4.3 RESULT OF MAXIMUM PERMISSIBLEEXPOSURE

For Full load mode:

E-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		Limits Test (V/m)
0.125	1.21	1.19	1.16	1.08	1.12	307	614

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

	~						/
Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.26	0.24	0.25	0.22	0.21	0.815	1.63

For Half Load mode:

E-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (V/m)

Frequency	Test	Test	Test	Test	Test		Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E		(V/m)
0.125	1.21	1.17	1.24	1.18	1.20	307	614

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

	7						
Frequency	Test	Test	Test	Test	Test		Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.24	0.25	0.23	0.20	0.25	0.815	1.63

For No loadmode:

E-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface(V/m)

ſ	Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
	Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (V/m)	(V/m)
	0.125	1.23	1.14	1.25	1.24	1.22	307	614

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface(A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits Test
Range (MHz)	Position A	Position B	Position C	Position D	Position E	Limit (A/m)	(A/m)
0.125	0.18	0.21	0.23	0.25	0.22	0.815	1.63
