

TEST REPORT

Reference No..... : WTX22X07156173W002
FCC ID : 2A8HY-GLVTSLCM
Applicant : Galvanox
Address..... : 282 Dupont Ave, Newburgh, New York 12550, United States
Manufacturer : Dongguan Haopin Technology Co., Ltd.
Address..... : 5 / F, Building 6, Kusai Kejiyuan, Fumin South Road, Dongguan City, China
Product Name : Wireless Charging Car Mount for MagSafe
Model No..... : GLVTSLCM
Standards : KDB 680106 D01 V03
Date of Receipt sample : 2022-07-29
Date of Test..... : 2022-07-29 to 2022-08-18
Date of Issue : 2022-08-18
Test Report Form No. : WTX_KDB 680106 D01 V03W
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

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Report version

Version No.	Date of issue	Description
Rev.00	2022-08-18	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	Wireless Charging Car Mount for MagSafe
Trade Name:	Galvanox
Model No.:	GLVTSLCM
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	110~205KHz
Modulation Type:	FSK
Antenna Type:	Coil Antenna
Antenna Gain:	0 dBi
Rated Voltage:	Input: 5V, 9V, 12V
Rated Current:	Input: 2A, 2A, 1.67A
Rated Power:	Output: 5W/7.5W/10W/15W

1.2 Auxiliary Equipment List and Details

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
Adapter	KOSP	CE200A0120V	/
Smart phone	Apple	IPhone 11	/
wireless charging tester	YBZ	YBZ wireless charging tester	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
DC Cable	1.25	Unshielded	Without Ferrite

EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB-C Cable	1.00	Unshielded	Without Ferrite

1.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200AC	180ZX10226	2021-05-20	2024-05-19

2. RF Exposure Test Report

2.1 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

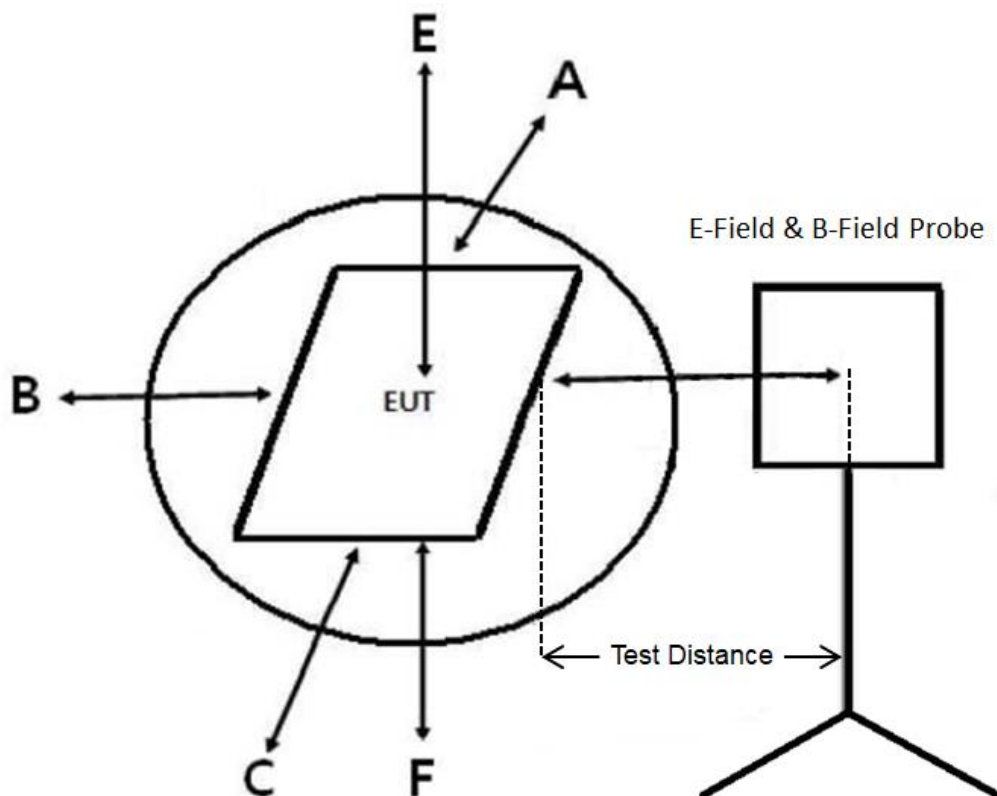
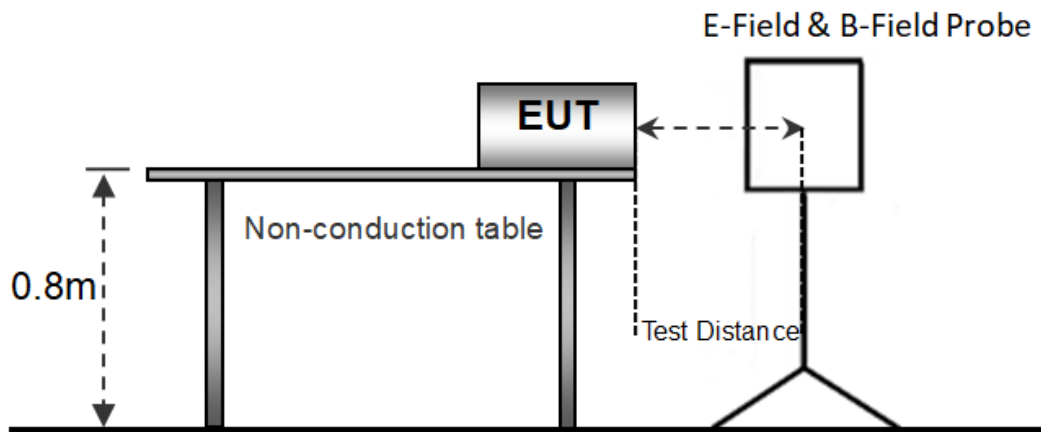
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	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
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

2.2 Test Conditions

Test Mode	Description	Remark
TM1	Wireless Charging	Output 5W
TM2	Wireless Charging	Output 10W
TM3	Wireless Charging	Output 15W
Measurement Distance:	15 cm	

2.3 Test Procedure



- The measurement probe was placed at test distance (15 cm for A, B, C, D, F and 20 cm for E) which is between the edge of the charger and the geometric center of probe.
- The highest emission level was recorded at the measurement points (A, B, C, D, E, F).
- The EUT was measured according to the distance of KDB 680106 D01 V03.

2.4 Test Result

The EUT complies with item 5.2 of KDB 680106 D01V03

1. Power transfer frequency is less than 1 MHz
Yes, the device operates in the frequency range from 110kHz to 205kHz.
2. Output power from each primary coil is less than or equal to 15 watts
Yes, the maximum output power of the primary coil is equal to 15W.
3. The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
Yes, the client device includes only single primary coils.
4. Client device is inserted in or placed directly in contact with the transmitter
Yes, Client device is placed directly in contact with the transmitter.
5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
Yes, It is mobile exposure conditions only.
6. The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
Yes, The EUT field strength levels are less than 50% of the MPE limit, refer to test TM1, TM2, TM3 list, and the coils can't be transmitted simultaneously.

Test Mode: TM1

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	0.9038	614	307
Point F	0.2248	614	307
Point A	0.2195	614	307
Point B	0.4268	614	307
Point C	0.4813	614	307
Point D	0.2918	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.3075	1.63	0.815
Point F	0.2784	1.63	0.815
Point A	0.2014	1.63	0.815
Point B	0.1034	1.63	0.815
Point C	0.0840	1.63	0.815
Point D	0.0941	1.63	0.815

Test Mode: TM2

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	1.3718	614	307
Point F	0.5222	614	307
Point A	0.5209	614	307
Point B	0.5597	614	307
Point C	1.2471	614	307
Point D	0.6520	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.7150	1.63	0.815
Point F	0.5224	1.63	0.815
Point A	0.5275	1.63	0.815
Point B	0.1004	1.63	0.815
Point C	0.0945	1.63	0.815
Point D	0.1007	1.63	0.815

Test Mode: TM3

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	1.8527	614	307
Point F	0.4154	614	307
Point A	0.3876	614	307
Point B	0.8981	614	307
Point C	0.4475	614	307
Point D	0.4200	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.7395	1.63	0.815
Point F	0.3932	1.63	0.815
Point A	0.3672	1.63	0.815
Point B	0.1031	1.63	0.815
Point C	0.0938	1.63	0.815
Point D	0.0907	1.63	0.815

Note: 1. The EUT was tested at 3 (X, Y, Z) orthogonal positions, and the worst-case position data was reported. Worst data for Electric Field Emissions (X), worst data for Magnetic Field Emissions (Z)

2.5 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Electric Field Emissions	Radiated	± 1.56 (V/m)
Magnetic Field Emissions	Radiated	± 0.08 (A/m)

2.6 Test Photos



APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******