



Maximum Permissible Exposure (Nerve Stimulation)

FCC ID : 2AV4OZENLETCOIL4000
Equipment : ZENLET COIL
Brand Name : Zenlet
Model Name : ZENLET COIL
Applicant : ZENLET CO.,LTD.
2F., No.45, Ln. 150, Sec. 1, Jiuzong Rd., Neihu Dist., Taipei
City 114, Taiwan (R.O.C.)
Manufacturer : Powergene Technology Co., Ltd. Taiwan Branch
1F-5, No.1, Wuquan 1st Rd., Xinzhuang Dist., New Taipei
City, Taiwan
Standard : 47 CFR Part 2.1091

The product was received on May 08, 2020, and testing was started from May 14, 2020 and completed on May 16, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB680106 D01 RF Exposure Wireless Charging Apps v03 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of United States government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.5	-	Maximum Permissible Exposure	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None.

Reviewed by: Sam Tsai

Report Producer: Debby Hung



1 Human Exposure Assessment

1.1 Maximum Permissible Exposure

1.1.1 Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	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 ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density
Note 2: For the applicable limit, see FCC 1.1310

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2.1091

The following reference test guidance is not within the scope of accreditation of TAF:

- KDB680106 D01 RF Exposure Wireless Charging Apps v03



1.3 Testing Location Information

Testing Location				
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)		
		TEL	886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH07-HY	Justin	19.6~25.1°C / 51~55%	14/May/2020

1.4 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	
1	Notebook	Dell	PP13S	
2	Adapter for NB	Dell	AA90PM111	
3	IPHONE	APPLE	A1905	
4	AC Adapter	ASUS	PA-1050-39	



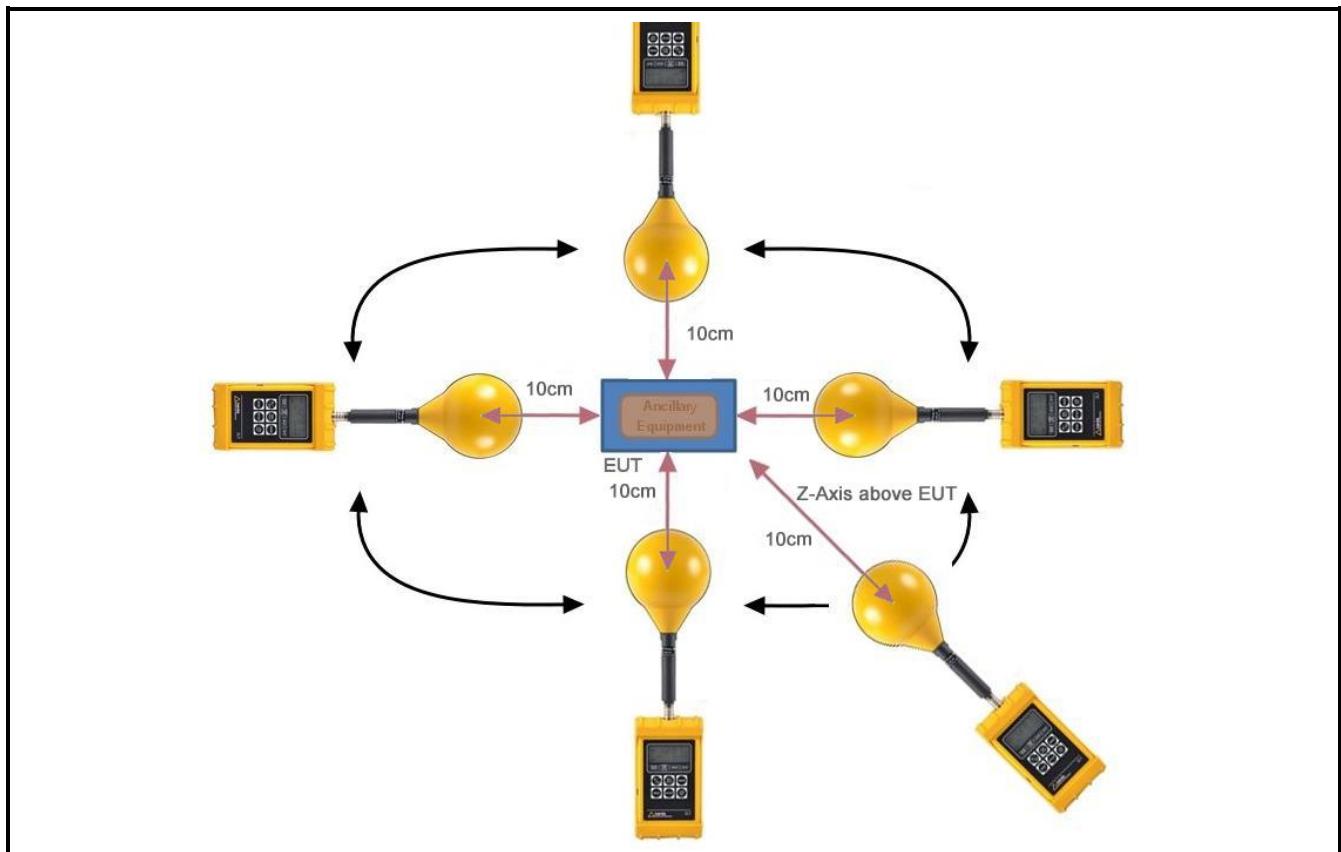
1.5 The Worst Condition

Ancillary Equipment	Charging Condition	Worst Charging Condition
IPHONE	Charging Mode	Low power<25%

1.5.1 Test Method

Test Method	
<input checked="" type="checkbox"/>	Performed aggregate both leakage E-field and H-field at surrounding the device from all simultaneous transmitting coils.
<input checked="" type="checkbox"/>	During testing, the EUT was placed on a non-conductive table top and the ancillary equipment (e.g., mobile phone) was placed on the EUT for charging. Maximum E-field and H-field measurements were tested 10cm from each side of the EUT. Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.
<input checked="" type="checkbox"/>	E-field transfer to H-field
-	$E\text{-field} = Z_0 \times H\text{-field}$ $H\text{-field} = E\text{-field} \div Z_0$ Where Z_0 = Free Space Impedance = 377Ω

1.5.2 Test Setup



Note1 : find worst position for each axis.

Note2 : This shall be measured as the distance from the edge of the device to the center of the measurement probe.

**1.5.3 Result of Maximum Permissible Exposure**

Maximum Permissible Exposure				
Charging Condition	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
Low power<25%	10cm	Left	0.78	0.002
Low power<25%	10cm	Right	0.78	0.002
Low power<25%	10cm	Top	1.65	0.004
Low power<25%	10cm	Bottom	0.69	0.002
Low power<25%	10cm	Z-axis above EUT	0.87	0.002
Limit			614.00	1.63
Margin Limit (%)			0.27%	0.27%



2 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
B-Field Probe	Narda Safety Test Solutions GmbH	B-Field Probe 100 cm ²	M-0652	50Hz~400kHz	20/Jul/2018	19/Jul/2020
Exposure Level Tester	Narda Safety Test Solutions GmbH	ELT-400	N-0210	100kHz~3MHz	20/Jul/2018	19/Jul/2020
Probe EF	Narda Safety Test Solutions GmbH	0391 E-Field	D-0667	0.1MHz ~ 3GHz	20/Jul/2018	19/Jul/2020
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-550	E-0847	0.1MHz ~ 3GHz	20/Jul/2018	19/Jul/2020