

# Maximum Permissible Exposure

Equipment : Wireless Power  
Brand Name : INPAQ  
Model No. : WPC-W-A-TX-CF-001  
FCC ID : 2ALND-WPCWATXCF01  
Standard : 47 CFR Part 2.1091  
Applicant / Manufacturer : INPAQ Technology Co., Ltd.  
No. 11, Ke-Yi St., Chunan, Miaoli 350 Taiwan  
R.O.C.

The product sample received on Mar. 13, 2017 and completely tested on Mar. 27, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in IEEE C95.1 and shown compliance with the applicable technical standards.

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

Reviewed by:

  
Jordan Hsiao / Manager





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## Revision History

[illegible]

# 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 <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
| 0.3-3.0                                                             | 614                               | 1.63                              | (100)*                                   | 6                                                                |
| 3.0-30                                                              | 1842 / f                          | 4.89 / f                          | (900 / f <sup>2</sup> )*                 | 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 <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
| 0.3-1.34                                                            | 614                               | 1.63                              | (100)*                                   | 30                                                               |
| 1.34-30                                                             | 824/f                             | 2.19/f                            | (180/f <sup>2</sup> )*                   | 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                    |                                   |                                   |                                          |                                                                  |

### 1.1.2 Testing Applied Standards

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

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v02 - Part 2 Section 2.109

## 1.2 Accessories and Support Equipment

| Accessories Information |   |   |   |   |
|-------------------------|---|---|---|---|
| -                       | - | - | - | - |

| Support Equipment |           |            |            |        |
|-------------------|-----------|------------|------------|--------|
| No.               | Equipment | Brand Name | Model Name | FCC ID |
| 1                 | Load      | -          | -          | -      |

Note.Support equipment No.1 was provided by customer.

## 1.3 Testing Location Information

| Testing Location                      |        |                                                                                                            |               |                  |             |
|---------------------------------------|--------|------------------------------------------------------------------------------------------------------------|---------------|------------------|-------------|
| <input checked="" type="checkbox"/>   | HWA YA | ADD : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District,<br>Tao Yuan City, Taiwan, R.O.C. |               |                  |             |
|                                       |        | TEL : 886-3-327-3456                      FAX : 886-3-327-0973                                             |               |                  |             |
| Test Site Registration Number: 553509 |        |                                                                                                            |               |                  |             |
| Test Condition                        |        | Test Site No.                                                                                              | Test Engineer | Test Environment | Test Date   |
| RF Conducted                          |        | TH01-HY                                                                                                    | Ryan          | 23.5°C / 64.3%   | 27/Mar/2017 |

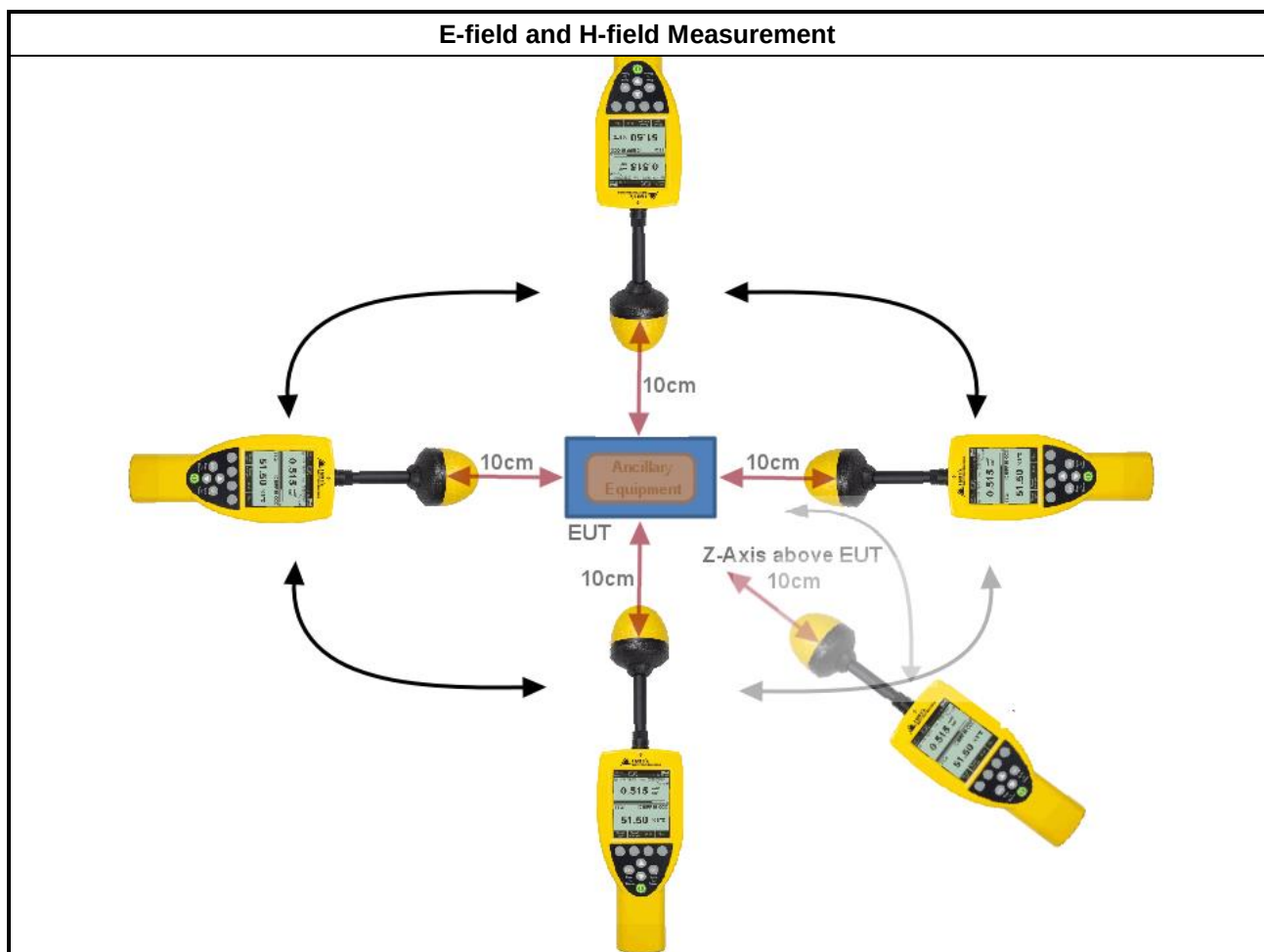
## 1.4 The Worst Charging Condition

| Ancillary Equipment | Charging Condition | Worst Charging Condition |
|---------------------|--------------------|--------------------------|
| Fixture Load        | Charging Mode      | Charging Mode            |

### 1.4.1 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. |

### 1.4.2 Test Setup



**1.4.3 Result of Maximum Permissible Exposure**

| <b>Maximum Permissible Exposure (394 kHz)</b> |                   |                            |                      |                            |
|-----------------------------------------------|-------------------|----------------------------|----------------------|----------------------------|
| <b>Charging Condition</b>                     | <b>Separation</b> | <b>Probe from EUT Side</b> | <b>E-field (V/m)</b> | <b>H-field Limit (A/m)</b> |
| Operating                                     | 10cm              | Left                       | 0.28                 | 0.001                      |
| Operating                                     | 10cm              | Right                      | 0.4                  | 0.001                      |
| Operating                                     | 10cm              | Top                        | 0.6                  | 0.002                      |
| Operating                                     | 10cm              | Bottom                     | 0.31                 | 0.001                      |
| Operating                                     | 10cm              | Z-axis above EUT           | 0.23                 | 0.001                      |
| <b>Limit</b>                                  |                   |                            | 614                  | 1.63                       |
| <b>Margin Limit (%)</b>                       |                   |                            | 0.10%                | 0.10%                      |

## 2 Test Equipment and Calibration Data

### Instrument for Conducted Test

| Instrument            | Manufacturer                     | Model No.    | Serial No. | Spec.         | Calibration Date | Calibration Due Date |
|-----------------------|----------------------------------|--------------|------------|---------------|------------------|----------------------|
| Probe EF              | Narda Safety Test Solutions GmbH | 0391 E-Field | D-0667     | 0.1MHz ~ 3GHz | 09/Jun/2016      | 08/Jun/2017          |
| Broadband Field Meter | Narda Safety Test Solutions GmbH | NBM-550      | E-0847     | 0.1MHz ~ 3GHz | 09/Jun/2016      | 08/Jun/2017          |