Microtest
微测检测

# Test Report

Report No.: MTi180907E036

Date of issue: Sept. 08, 2018

| | |
|---|---|
| Sample Description: | Wireless 5W charging pad made from ABS |
| Model(s): | P308.84, P308.841, P308.843, P308.844, P308.845, P308.629, E-QI-184342-A2 |
| Applicant: | |
| Address: | |
| Date of Test: | June 04, 2018 - June 13, 2018 |

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# Table of Contents

| General information | |
|---|---|
| Applicant's name: | |
| Address: | |
| Manufacture's Name: | |
| Address: | |
| **Product description** | |
| Product name: | Wireless 5W charging pad made from ABS |
| Trademark: | N/A |
| Model name: | P308.84 |
| Serial Model: | P308.841, P308.843, P308.844, P308.845, P308.629, E-QI-184342-A2 |
| Deference in serial model | The wireless module used in the product is the same, just different in appearance and color. |
| Standards: | EN 303 417 V1.1.1 (2017-09) |

*This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) is in compliance with the Radio equipment directive requirements. And it is applicable only to the tested sample identified in the report.*

Tested by: Demi Mu June 13,2018

Reviewed by: Blue Zheng June 13,2018

Approved by: Smith Chen June 13,2018

# 1. Summary of Test Result

| No. | Description of Test | Reference: Clause No | Result |
|---|---|---|---|
| 1 | Permitted range of operating frequencies | 4.3.2 | Pass |
| 2 | Operating frequency ranges | 4.3.3 | Pass |
| 3 | H-field requirements | 4.3.4 | Pass |
| 4 | Transmitter spurious emissions | 4.3.5 | Pass |
| 5 | Transmitter out of band (OOB) emissions | 4.3.6 | Pass |
| 6 | WPT system unwanted conducted emissions | 4.3.7 | N/A* |
| 7 | Receiver blocking | 4.4.2 | Pass |
| ** This applies to all WPT systems where the cable to the primary coil exceeds a length of 3 m and where the cable is not installed in the ground or any metallic structures.<br>** The EUT only work in mode 4 | | | |

# 2. General description

## 2.1. Feature of equipment under test (EUT)

| | |
|---|---|
| Product name: | Wireless 5W charging pad made from ABS |
| Model name: | P308.84 |
| Serial Model: | P308.841, P308.843, P308.844, P308.845, P308.629, E-QI-184342-A2 |
| Deference in serial model | The wireless module used in the product is the same, just different in appearance and color. |
| TX/RX frequency range: | 110-205kHz |
| Radiated H-Field: | -11.835dBuA/m(@3m) |
| Operational Mode: | Mode 4(see table 2) |
| Antenna Designation: | Coil Antenna |
| Power Source: | DC 5V from adapter |
| Adapter information: | N/A |
| Note: The is a receiver device only use to energy transmission | |

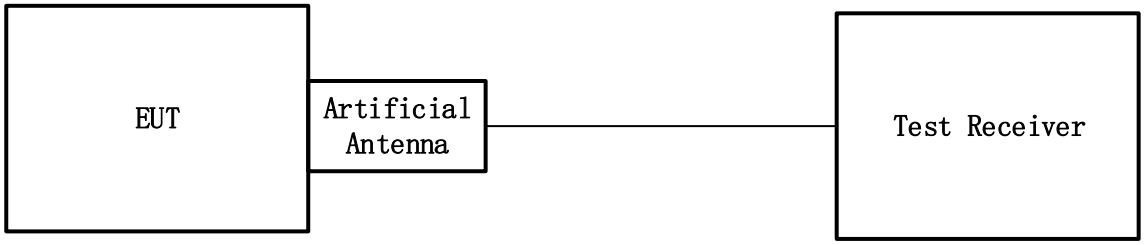
## 2.2. EUT operation mode

Testing shall be made under normal test conditions, and also, where stated, under extreme test conditions.

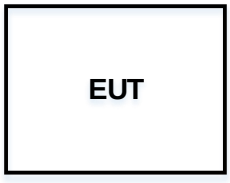
| Test mode | Description |
|---|---|
| Mode 1 | Wireless charging |

## 2.3. EUT test setup

For Conducted test:




For Radiated test:



See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

## 2.4. Test conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 20ºC~30ºC
- Humidity: 30%~70%
- Atmospheric pressure: 98kPa~101kPa

## 2.5. Ancillary equipment list

| Equipment | Model | S/N | Manufacturer |
|---|---|---|---|
| Adapter | HW-050100E01 | / | / |

## 2.6. Measurement uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI TR 100 028 [i.14]. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

| **Parameters** | **Uncertainty** |
|---|---|
| RF frequency | ±1.12 x $10^{-8}$ |
| RF power, conducted | ± 1 dB |
| Radiated emission of transmitter | ±4.7 dB |
| Radiated emission of receiver | ±4.7 dB |
| Temperature | ±0.5 °C |
| Humidity | ±0.5 % |

# 3. Testing site

| | |
|---|---|
| Test laboratory: | Shenzhen Microtest Co., Ltd. |
| Laboratory location: | No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China |
| CNAS Registration No.: | L5868 |
| Telephone: | (86-755)88850135 |
| Fax: | (86-755)88850136 |

# 4. List of test equipment

| Software Name: EMI Measurement Software<br>Manufacturer: Farad<br>Model: EZ-EMC | | | | | | |
|---|---|---|---|---|---|---|
| Equipment No. | Equipment Name | Manufacturer | Model | Serial No. | Calibration date | Due date |
| MTI-E001 | Spectrum Analyzer | Agilent | E4407B | MY41441082 | 2017/09/18 | 2018/09/17 |
| MTI-E002 | CMU 200 universal radio communication tester | Rohde&schwarz | CMU 200 | 114587 | 2017/09/18 | 2018/09/17 |
| MTI-E004 | EMI Test Receiver | Rohde&schwarz | ESPI | 1000314 | 2017/09/18 | 2018/09/17 |
| MTI-E006 | Broadband antenna | schwarabeck | VULB9163 | 872 | 2017/09/18 | 2018/09/17 |
| MTI-E007 | Horn antenna | schwarabeck | BBHA9120D | 1201 | 2017/09/18 | 2018/09/17 |
| MTI-E014 | amplifier | America | 8447D | 3113A06150 | 2017/09/18 | 2018/09/17 |
| MTI-E015 | Conduction Immunity Signal Generator | Schloder | CDG6000 | 126A1343/2015 | 2017/09/18 | 2018/09/17 |
| MTI-E016 | Coupled decoupling network | Schloder | CDA M2/M3 | A2210332/2015 | 2017/09/18 | 2018/09/17 |
| MTI-E032 | Comprehensive test instrument | Rohde&schwarz | CMW500 | 124192 | 2018/04/13 | 2019/04/12 |
| MTI-E034 | amplifier | Agilent | 8449B | 3008A02400 | 2017/08/22 | 2018/08/21 |
| MTI-E040 | Spectrum analyzer | Agilent | N9020A | MY49100060 | 2018/03/04 | 2019/03/03 |
| MTI-E041 | Signal generator | Agilent | N5182A | MY49060455 | 2018/02/22 | 2019/02/21 |
| MTI-E042 | Analog signal generator | Agilent | E4421B | GB40051240 | 2018/02/22 | 2019/02/21 |
| MTI-E043 | Power probe | Dare Instruments | RPR3006W | 16I00054SNO16 | 2018/02/28 | 2019/02/27 |
| MTI-E047 | 10dB attenuator | Mini-Circuits | UNAT-10+ | 15542 | 2018/05/23 | 2019/05/22 |
| MTI-E049 | spectrum analyzer | Rohde&schwarz | FSP-38 | 100019 | 2017/09/18 | 2018/09/17 |
| MTI-E050 | PSG Signal generator | Agilent | E8257D | MY46520873 | 2018/04/24 | 2019/04/23 |
| MTI-E051 | Active Loop Antenna 9kHz - 30MHz | Schwarzbeek | FMZB 1519 B | 00044 | 2018/02/26 | 2019/02/25 |
| MTI-E052 | 18-40GHz amplifier | Chengdu step Micro Technology | ZLNA-18-40G-21 | 1608001 | 2017/09/18 | 2018/09/17 |
| MTI-E053 | 15-40G Antenna | Schwarzbeek | BBHA9170 | BBHA9170582 | 2017/09/18 | 2018/09/17 |
| Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI). | | | | | | |

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

# 5. Transmitter parameters

## 5.1. Permitted range of operating frequencies

### 5.1.1. Definition

The permitted range of operating frequencies denotes the frequency ranges set out in Table 1. It likewise denotes the respective frequency range for accommodation of the fundamental WPT frequency of the EUT within its operating frequency range (OFR).

### 5.1.2. Limits

The permitted range of operating frequency range(s) for intentional emissions shall be within 19 - 21 kHz, 59 - 61 kHz,79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz, see Table 2.

**Table 2**

| Operational Mode | Set-up | Function of base station | Function of Mobile device | Test scenario | Conformance and Requirements |
|---|---|---|---|---|---|
| Mode 1: base station in stand-by, idle mode | Single device | Transmitter | Not applicable | Single radiation test (TX) with the base station/charging pad. The test set-up as described in clause 6.1.2 shall be used. | • Operating frequency range (clause 4.3.3) • H-Field emission (clause 4.3.4) • TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) • Performance criteria test (RX test) (clause 4.4) |
| Mode 2: Communication before charging, adjustment charging mode / position | In combination | TX and RX | TX and RX | Specific test setup, declared by the manufacturer. Manufacturer shall declare the maximal distance between base station and mobile device the WPT system is able to communicate (distance D). The test setup- up shall be performed with the largest communication distance. The test set-up as described in clause 6.1.3 shall be used. | • Operating frequency range (clause 4.3.3) • H-Field emission (clause 4.3.4) • TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) • Wanted performance criteria test (RX test) (clause 4.4) |
| Mode 3: Communication | WPT system alignment | TX and RX | TX and RX | Worst case alignment | |
| Mode 4: energy transmission | WPT system alignment | TX and RX | TX and RX | Both tests can be performed within one set-up, worst-case alignment. The test set-up as described in clause 6.1.4 shall be used. | • Operating frequency range (clause 4.3.3) • H-Field emission (clause 4.3.4) • TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) • Wanted Performance criteria test (RX test) (clause 4.4) |

### 5.1.3. Test Procedures

Follow the test procedure as described in EN 303 417 V1.1.1 Clause 4.3.3.2 to measure the permitted range of operating frequencies at normal condition.

5.1.4. Test Result

| Permitted range of operating frequencies | | | | |
|---|---|---|---|---|
| $F_L$ (KHz) (kHz) | $F_H$(kHz) | Limit (KHz) | | Result |
| 110 | 205 | $F_L \geq 100$ | $F_H \leq 300$ | Pass |

## 5.2. Operating frequency range(s) (OFR)

### 5.2.1. Definition

The operating frequency range is the frequency range over which the WPT system is intentionally transmitting (all operational modes, see clause 4.2.3, Table 2).

The operating frequency range(s) of the WPT system are determined by the lowest (fL) and highest frequency ($f_H$) as occupied by the power envelope.

The WPT system could have more than one operating frequency range.

For a single frequency systems the OFR is equal to the occupied bandwidth (OBW) of the WPT system.

For multi-frequency systems the OFR is described in Figures 2 and 3.

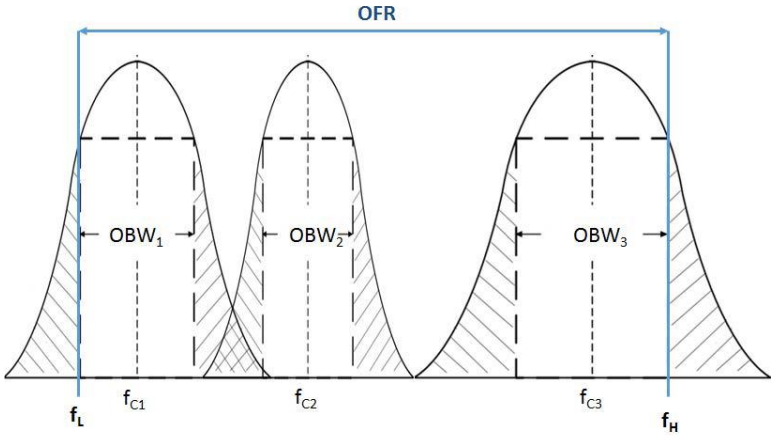



**Figure 2: OFR of a multi - frequency WPT system within one frequency range of Table 2 and within one WPT system cycle time**

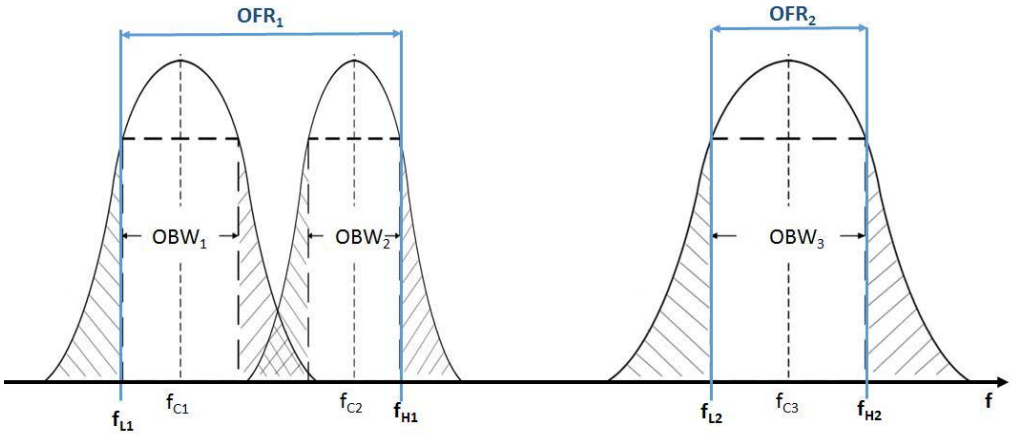



**Figure 3: OFR of a multi - frequency WPT system within two frequency ranges of Table 2 and within one WPT system cycle time**

**Limits**

The operating frequency range for emissions shall be within one of the following limits: 19 - 21 kHz, 59 - 61 kHz,79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz.

### 5.2.2. Test Procedures

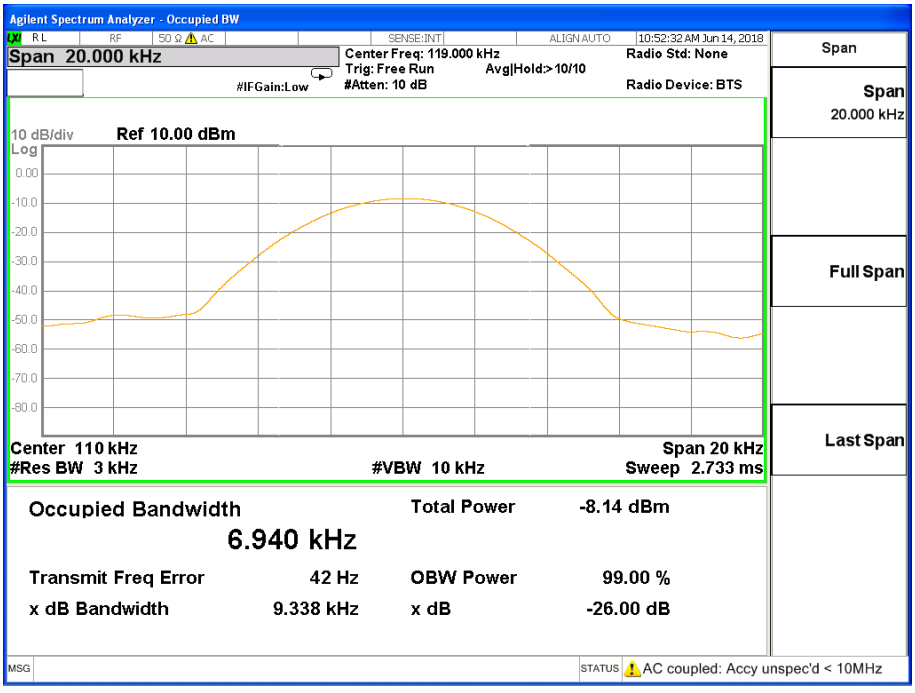
The conformance test suite for operating frequency ranges shall be as defined in clause 6.2.1.
The manufacturer shall declare all necessary information (distance, orientation) which are necessary to set-up the different alignments as defined in clause 6.1.1 for each operational mode as defined in clause 4.2.3, Table 2.

Conformance shall be established under test conditions to be declared by the manufacturer according to clause 4.1. The interpretation of the results for the measurements uncertainty shall be as given in clause 5.11.

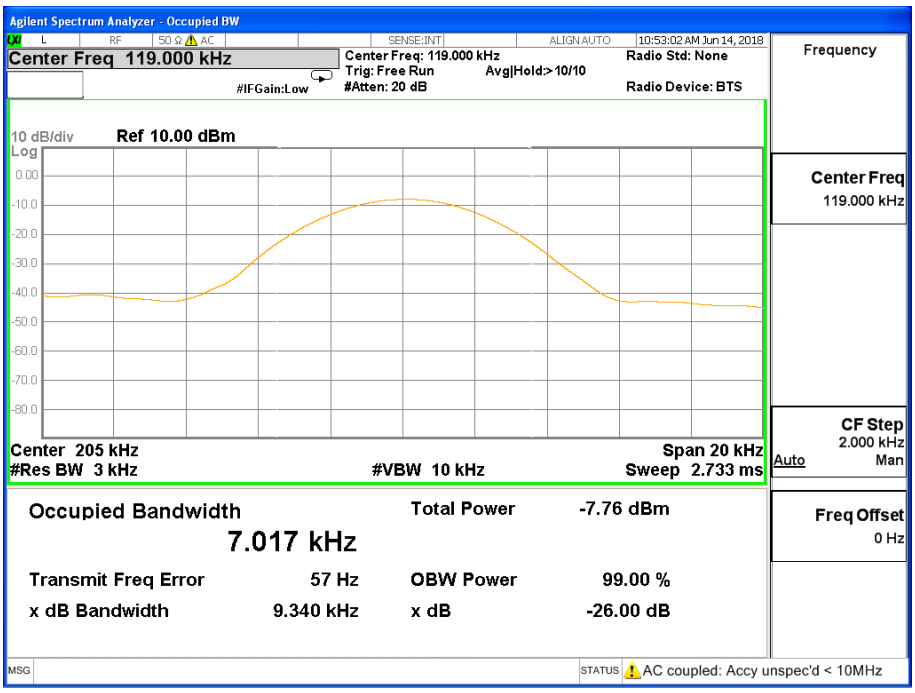
### 5.2.3. Test Result

| Operating frequency range(s) (OFR) | | | | |
|---|---|---|---|---|
| $F_L$ (KHz) (kHz) | $F_H$(kHz) | Limit (KHz) | | Result |
| 110 | 205 | $F_L \geq 100$ | $F_H \leq 300$ | Pass |
| Note:<br>$F_L$ (KHz) = $F_{centre}$ – OBW1/2<br>$F_H$ (KHz) = $F_{centre}$ + OBW2/2 | | | | |

**99% OBW**



## 99% OBW



## 5.3. H-field requirements

### 5.3.1. Definition

The radiated H-field is defined in the direction of maximum field strength under specified conditions of measurement.

### 5.3.2. Limits

The H-field limits are provided in Table 3.

**Table 3: H-field limits**

| Frequency range [MHz] | H-field strength limit [dBμA/m at 10 m] | Comments |
|---|---|---|
| 0.019 ≤ f < 0.021 | 72 | |
| 0.059 ≤ f < 0.061 | 69.1 descending 10 dB/dec | Note 1 |
| 0.079 ≤ f < 0.090 | 67.8 descending 10 dB/dec | Note 2 |
| 0.100 ≤ f < 0.119 | 42 | |
| 0.119 ≤ f < 0.135 | 66 descending 10 dB/dec | Note 1 |
| 0.135 ≤ f < 0.140 | 42 | |
| 0.140 ≤ f < 0.1485 | 37.7 | |
| 0.1485 ≤ f < 0.30 | -5 | |
| 6.765 ≤ f < 6.795 | 42 | |
| Note 1: Limit is 42 dBμA/m for the following spot frequencies: 60 kHz ± 250 Hz and 129,1 kHz ± 500 Hz.<br>Note 2: At the time of preparation of the present document the feasibility of increased limits for high power wireless power transmission systems to charge vehicles [i.4] was prepared. New specific requirements for such systems (e.g. higher H-field emission limits in the 79 - 90 kHz band) will be reflected within a future revision of the present document. | | |

### 5.3.3. Test Procedures

Follow the test procedure as described in EN 303 417 V1.1.1 Clause 6.2.1 to measure the H-field requirements at normal condition.

### 5.3.4. Test Result

Pre-scan EUT X, YX Z axis, and find the worst case at X axis.

| Frequency (MHz) | Level (dBuA/m)@3m | $C_3$Factor (dB) | Level (dBuA/m)@10m | Limit (dBuA/m)@10m | Result |
|---|---|---|---|---|---|
| 0.110 | -11.835 | 31.524 | -43.359 | 42 | Pass |

| Frequency (MHz) | Level (dBuA/m)@3m | $C_3$Factor (dB) | Level (dBuA/m)@10m | Limit (dBuA/m)@10m | Result |
|---|---|---|---|---|---|
| 0.205 | -15.471 | 33.271 | -48.742 | -5 | Pass |

Note:1. $H3_m=H10_m+C_3$ refer to ETSI EN300 330 Annex H.2

Level(dBuA/m)@10m = Level(dBuA/m)@3m - C3

## 5.4. Transmitter spurious emissions

### 5.4.1. Definition

The transmitter spurious emissions for a single frequency system are to be considered in frequency ranges defined in Figure 4 ($f < f_{SL}$ and $f > f_{SH}$).

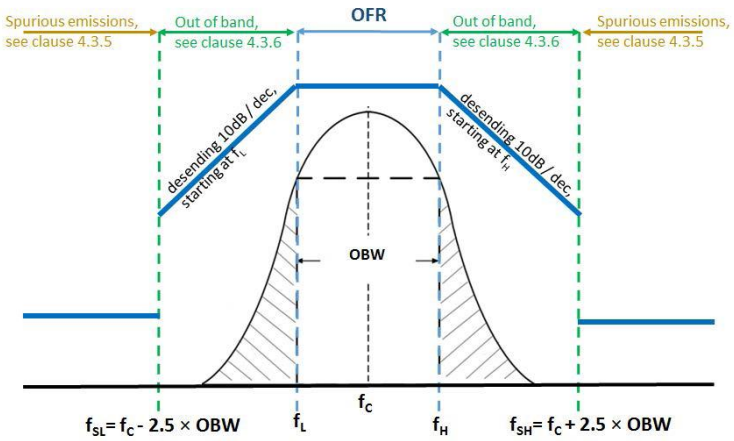



**Figure 4: Out of band and spurious domain of a single frequency WPT system**

The transmitter spurious emissions for a multi frequency system (within one WPT frequency range from Table 2) are to be considered in frequency ranges defined in Figure 5 ( $f < f_{SL}$ and $f > f_{SH}$).

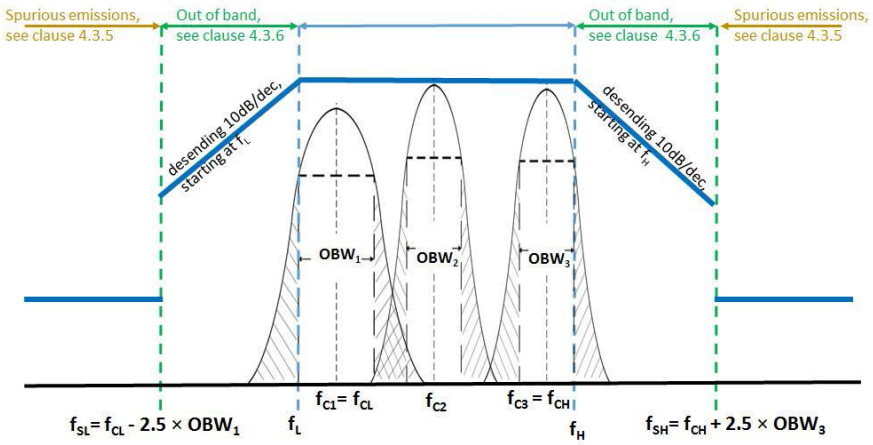



**Figure 5: Out of band and spurious domain of a multi - frequency system**

**(during one WPT system cycle time)** 4.3.5.3

### 5.4.2. Limits

The radiated field strength of spurious emissions below 30 MHz shall not exceed the generated H-field given in Table 4.

| State (see note) | Frequency 9 kHz ≤ f < 10 MHz | Frequency 10 MHz ≤ f < 30 MHz |
|---|---|---|
| Operating | 27 dBµA/m at 9 kHz descending | -3.5 dBµA/m |
| Standby | 5.5 dBµA/m at 9 kHz descending | -25 dBµA/m |
| Note: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2. | | |

The power of any radiated spurious emission between 30 MHz and 1 GHz shall not exceed the values given in Table 5.

**Table 5**

| State (see note) | 47 MHz to 74 MHz<br>87.5 MHz to 118 MHz<br>174 MHz to 230 MHz<br>470 MHz to 790 MHz | Other frequencies between 30 MHz to 1 000 MHz |
|---|---|---|
| Operating | 4 nW | 250 nW |
| Standby | 2 nW | 2 nW |
| Note: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2. | | |

5.4.3. Test Procedures

Follow the test procedure as described in EN 300 330 V2.1.1 Clause 6.2.1. to measure the transmitter spurious emissions at normal condition.

5.4.4. Test Result

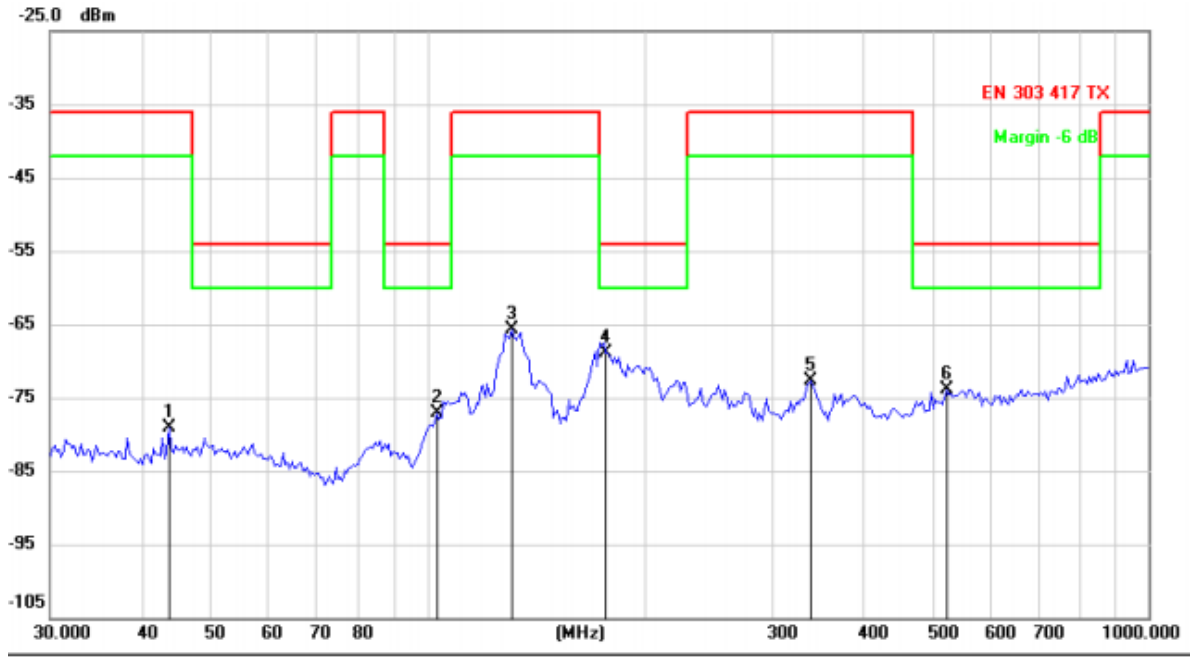
Pre-scan EUT X, YX Z axis, and find the worst case at X axis.

9KHz-30MHz Emission

| No. | Frequency | Result@3m | $C_3$ | Result @10m | Limit@10m | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | dBuA/m | (dB) | dBuA/m | dBuA/m | (dB) | |
| 1 | 15.5785 | -26.42 | 22.38 | -48.80 | -3.6 | -45.20 | Peak |

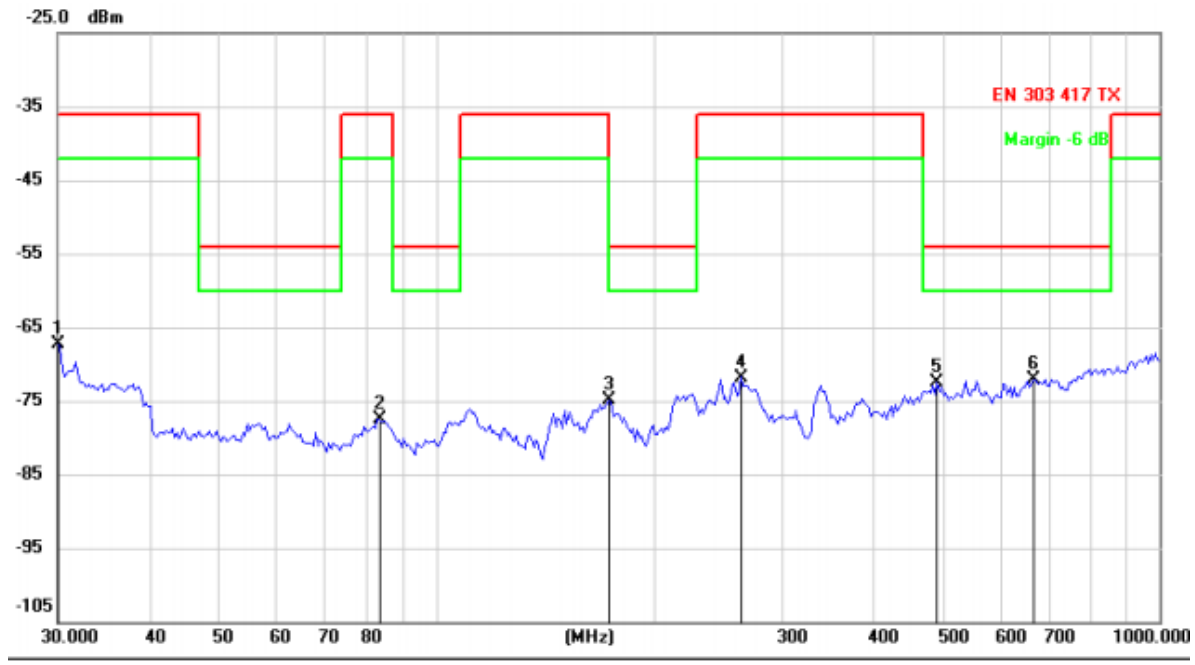
Note: $H_{3m}=H_{10m}+C_3$ refer to ETSI EN300 330 Annex H.2
Result @10m= Result@3m - $C_3$
Margin= Result @10m - Limit@10m

| | | | |
|---|---|---|---|
| EUT | Wireless 5W charging pad made from ABS | Model name: | P308.84 |
| Temperature: | 25℃ | Relative Humidity: | 52% |
| Pressure: | 101kPa | Phase: | H |
| Test voltage: | DC 5V form AC 230V/50Hz | Test mode: | Mode 1 |




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBm | dBm | dBm | dBm | dB | Detector | cm | degree | Comment |
| 1 | | 43.8119 | -78.72 | -0.44 | -79.16 | -36.00 | -43.16 | peak | | | |
| 2 | | 103.0800 | -73.93 | -3.21 | -77.14 | -54.00 | -23.14 | peak | | | |
| 3 | | 130.8369 | -59.73 | -6.02 | -65.75 | -36.00 | -29.75 | peak | | | |
| 4 | * | 176.8875 | -63.23 | -5.70 | -68.93 | -54.00 | -14.93 | peak | | | |
| 5 | | 339.5887 | -74.24 | 1.59 | -72.65 | -36.00 | -36.65 | peak | | | |
| 6 | | 524.5538 | -78.37 | 4.52 | -73.85 | -54.00 | -19.85 | peak | | | |

| | | | |
|---|---|---|---|
| EUT | Wireless 5W charging pad made from ABS | Model name: | P308.84 |
| Temperature: | 25℃ | Relative Humidity: | 52% |
| Pressure: | 101kPa | Phase: | V |
| Test voltage: | DC 5V form AC 230V/50Hz | Test mode: | Mode 1 |




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBm | dBm | dBm | dBm | dB | Detector | cm | degree | Comment |
| 1 | | 30.0000 | -65.41 | -1.93 | -67.34 | -36.00 | -31.34 | peak | | | |
| 2 | | 82.9385 | -72.59 | -4.94 | -77.53 | -36.00 | -41.53 | peak | | | |
| 3 | | 173.2050 | -71.58 | -3.25 | -74.83 | -36.00 | -38.83 | peak | | | |
| 4 | | 263.8190 | -71.11 | -0.69 | -71.80 | -36.00 | -35.80 | peak | | | |
| 5 | | 492.4685 | -77.53 | 5.11 | -72.42 | -54.00 | -18.42 | peak | | | |
| 6 | * | 670.4891 | -78.31 | 6.12 | -72.19 | -54.00 | -18.19 | peak | | | |

## 5.5. Transmitter out of band (OOB) emissions

### 5.5.1. Definition

The WPT system out of band emissions are to be considered in frequency ranges defined in Figure 4 and Figure 5 (between $f_{SL}$ and $f_L$ and between $f_H$ and $f_{SH}$).

### 5.5.2. Limits

The OOB limits are visualized in Figures 4 and 5; they are descending from the intentional limits from Table 3 at $f_H/f_L$ with 10 dB/decade.

### 5.5.3. Test Procedures

Follow the test procedure as described in EN 303 417 V1.1.1 Clause 6.2.1 to measure the transmitter out of band (OOB) emissions at normal condition.

### 5.5.4. Test Result

| No. | Frequency | Result@3 m | $C_3$ | Result @10m | Limit@10m | Margin | Remark |
|---|---|---|---|---|---|---|---|
| | (MHz) | dBuA/m | (dB) | dBuA/m | dBuA/m | (dB) | |
| 1 | FcL-2.5 X $OBW_1$ | -12.35 | 31.2 | -43.55 | 16.77 | 60.32 | Peak |
| 2 | $F_L$ | -13.27 | 31.2 | -44.47 | 16.64 | 61.11 | Peak |
| 3 | $F_H$ | -14.45 | 31.2 | -45.65 | 16.24 | 61.89 | Peak |
| 4 | FcH-2.5 X $OBW_2$ | -16.38 | 31.2 | -47.58 | 16.08 | 63.66 | Peak |

Note: $H_{3m}=H_{10m}+C_3$ refer to ETSI EN300 330 Annex H.2

## 5.6. WPT system unwanted conducted emissions

### 5.6.1. Definition

WPT system unwanted conducted emissions are based on the emissions of the unwanted common mode current on the cable between the off board power supply and the primary coil seen as a monopole radiator driven against the power supply.

### 5.6.2. Limits

The common mode current (ICM) between 1 MHz and 30 MHz shall not exceed the following limit:

$$ICM = 47 - 8 \times \log(f)\ dB\mu A$$

Note: f is the frequency in MHz.

### 5.6.3. Test Procedures

Follow the test procedure as described in EN 303 417 V1.1.1 Clause 6.2.4 to measure the WPT system unwanted conducted emissions.

### 5.6.4. Test Result

Not application

## 5.7. Receiver blocking

### 5.7.1. Definition

Blocking is a measure of the capability of the receiver to receive a wanted signal without exceeding a given degradation due to the presence of an unwanted input signal at any frequencies other than those of the receiver spurious responses.

The test shall be performed in the relevant operational modes (see clause 4.2.3).

The wanted performance criteria from clause 4.2.2 shall be used as criterion for the receiver blocking tests.

### 5.7.2. Limits

The receiver blocking limits in Table 6 shall be fulfilled

| | In-band signal | OOB signal | Remote-band signal |
|---|---|---|---|
| Frequency | Centre frequency (fc) of the WPT | f = fc ± F (see note) | f = fc ± 10 × F (see note) |
| Signal level field strength at the EUT | 72 dBµA/m | 72 dBµA/m | 82 dBµA/m |
| Note: F = OFR see clause 4.3.3. | | | |

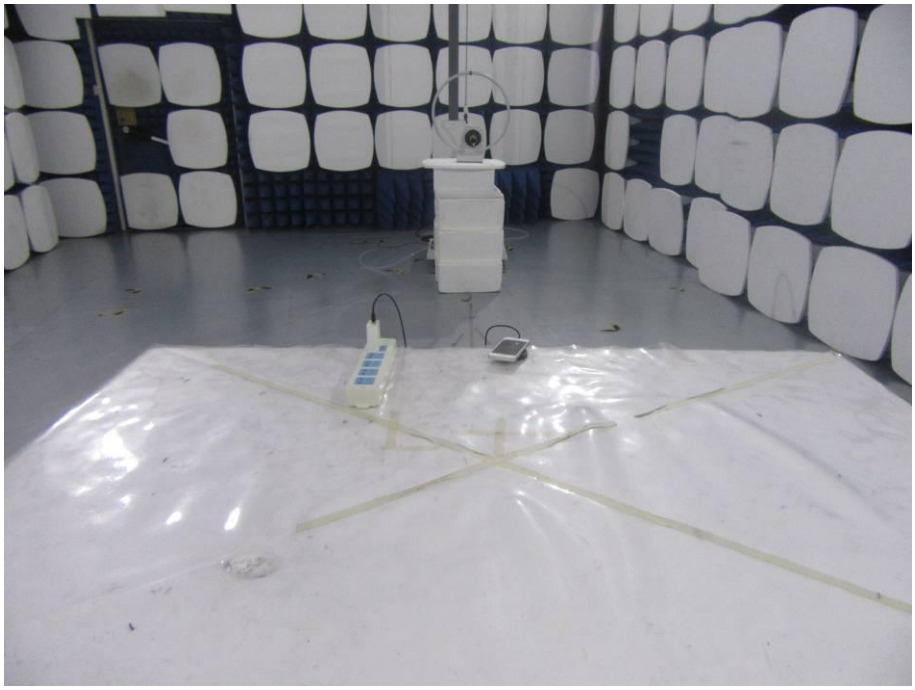
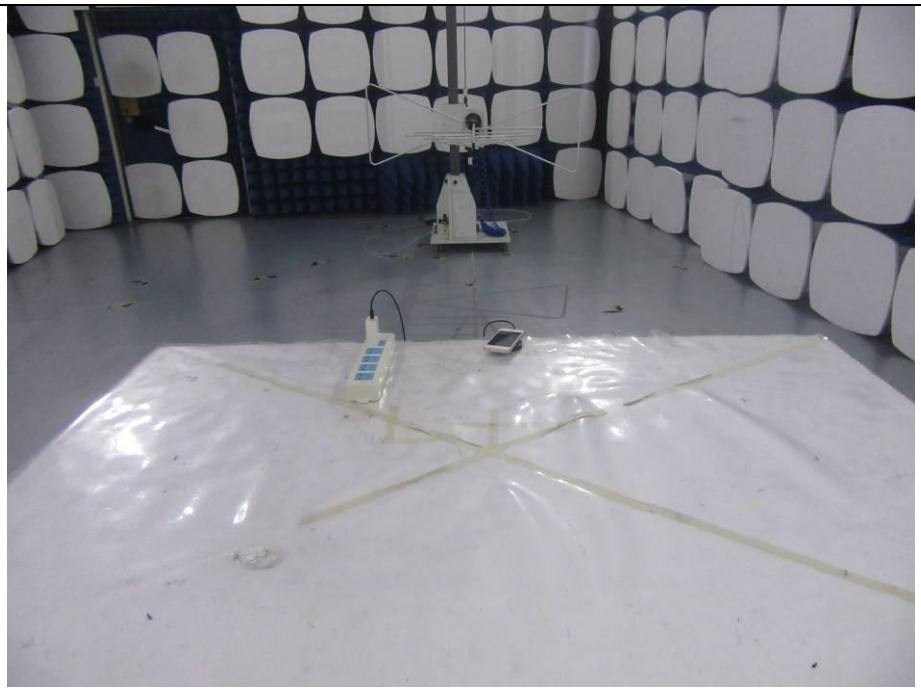
### 5.7.3. Test Procedures

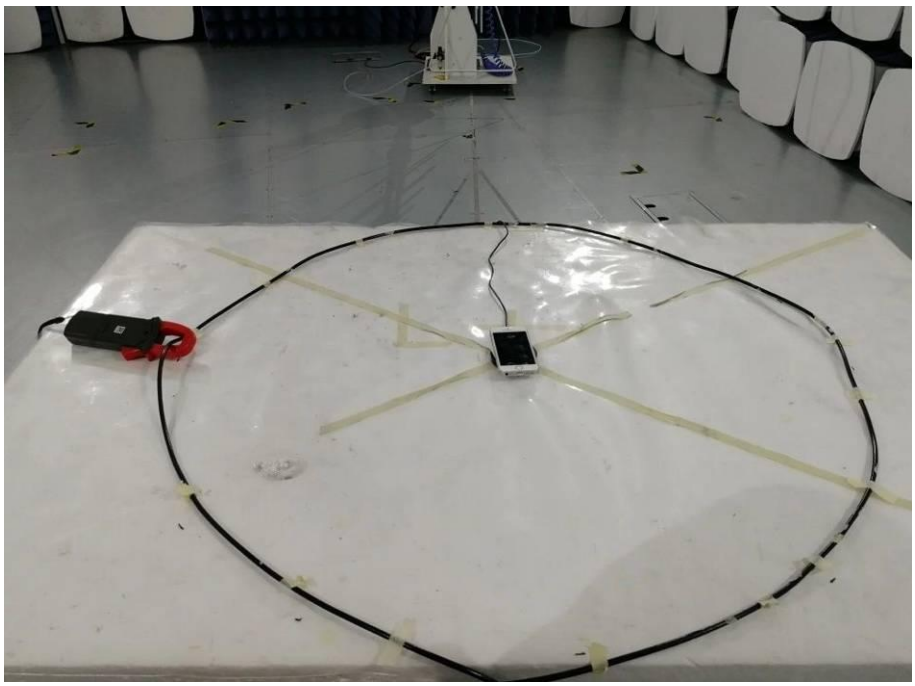
Follow the test procedure as described in EN 303 417 V1.1.1 Clause 6.3.2 to measure Receiver blocking.

### 5.7.4. Test Result

| Test Frequency | Blocking Signal (dBuA/m) | Performance Criterion | Result |
|---|---|---|---|
| Fc-10 X OFR | 75 | Without degradation of Performance | Pass |
| Fc | 68 | Without degradation of Performance | Pass |
| Fc+ OFR | 68 | Without degradation of Performance | Pass |
| Fc+0 X OFR | 75 | Without degradation of Performance | Pass |

# Photographs of the Test Setup

| Radiated emission below 30MHz |
| --- |
|  |
| Radiated emission above 30MHz |
|  |

| Receiver blocking |
| --- |
|  |

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