

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                             |                                                                                                                                        |                                                                                    |                                                                                                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br><i>Test report no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                         | <b>CN2257U7 001</b>                                                                                         | <b>Auftrags-Nr.:</b><br><i>Order no.:</i>                                                                                              | <b>168377830</b>                                                                   | <b>Seite 1 von 27</b><br><i>Page 1 of 27</i>                                                                |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                | N/A                                                                                                         | <b>Auftragsdatum:</b><br><i>Order date:</i>                                                                                            | 2022-06-17                                                                         |                                                                                                             |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Shandong Kangtai Industry Co.,Ltd.</b><br>#389,Jincheng Road Zhaoyuan 265400, Shandong City, China       |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                | Wireless charging module                                                                                    |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type no.:</i>                                                                                                                                                                                                                                                                                                                                                                                         | WL0125                                                                                                      |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>                                                                                                                                                                                                                                                                                                                                                                                                           | Type test                                                                                                   |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | CFR47 FCC Part 15: Subpart C Section 15.209<br>CFR47 FCC Part 15: Subpart C Section 15.215                  |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Wareneingangsdatum:</b><br><i>Date of sample receipt:</i>                                                                                                                                                                                                                                                                                                                                                                                               | 2022-07-11                                                                                                  | Refer to photos document                                                                                                               |                                                                                    |                                                                                                             |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample no.:</i>                                                                                                                                                                                                                                                                                                                                                                                                          | A003295820-001                                                                                              |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>                                                                                                                                                                                                                                                                                                                                                                                                             | 2022-07-29                                                                                                  |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>                                                                                                                                                                                                                                                                                                                                                                                                        | TÜV Rheinland (Shenzhen)<br>Co., Ltd.                                                                       |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>                                                                                                                                                                                                                                                                                                                                                                                                     | TÜV Rheinland (Shenzhen)<br>Co., Ltd.                                                                       |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>                                                                                                                                                                                                                                                                                                                                                                                                              | Pass                                                                                                        |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>geprüft von:</b><br><i>tested by:</i>                                                                                                                                                                                                                                                                                                                                                                                                                   |  <b>Jonat<br/>han Li</b> |                                                                                                                                        | <b>genehmigt von:</b><br><i>authorized by:</i>                                     |  <b>Winnie<br/>Hou</b> |
| <b>Datum:</b><br><i>Date:</i>                                                                                                                                                                                                                                                                                                                                                                                                                              | 2022-08-19                                                                                                  |                                                                                                                                        | <b>Ausstellungsdatum:</b><br><i>Issue date:</i>                                    | 2022-08-19                                                                                                  |
| <b>Stellung / Position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sachverständige(r) / Expert                                                                                 |                                                                                                                                        | <b>Stellung / Position</b>                                                         | Sachverständige(r) / Expert                                                                                 |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  | FCC ID: 2A78H-WL0125                                                                                        |                                                                                                                                        |                                                                                    |                                                                                                             |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>                                                                                                                                                                                                                                                                                                                                                     | Prüfmuster vollständig und unbeschädigt<br><i>Test item complete and undamaged:</i>                         |                                                                                                                                        |                                                                                    |                                                                                                             |
| * Legende: 1 = sehr gut<br>P(ass) = entspricht o.g. Prüfgrundlage(n)<br>Legend: 1 = very good<br>P(ass) = passed a.m. test specifications(s)                                                                                                                                                                                                                                                                                                               | 2 = gut<br>2 = good                                                                                         | 3 = befriedigend<br>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)<br>3 = satisfactory<br>F(ail) = failed a.m. test specifications(s) | 4 = ausreichend<br>N/A = nicht anwendbar<br>4 = sufficient<br>N/A = not applicable | 5 = mangelhaft<br>N/T = nicht getestet<br>5 = poor<br>N/T = not tested                                      |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> |                                                                                                             |                                                                                                                                        |                                                                                    |                                                                                                             |

V05

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## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT**

*RESULT: Pass*

**5.1.2 99% BANDWIDTH**

*RESULT: Pass*

**5.1.3 20dB BANDWIDTH**

*RESULT: Pass*

**5.1.4 RADIATED SPURIOUS EMISSION**

*RESULT: Pass*

**6.1.1 ELECTROMAGNETIC FIELDS**

*RESULT: Pass*

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

## 2 Test Sites

### 2.1 Test Facilities

**TÜV Rheinland (Shenzhen) Co., Ltd.**

No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, China

FCC Registration No.: CN1260

### 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| Radio Spectrum Testing                    |              |                   |              |            |
|-------------------------------------------|--------------|-------------------|--------------|------------|
| Description                               | Manufacturer | Model             | Serial No.   | Cal. Until |
| EXA Signal Analyzer, Multi-touch          | Keysight     | N9010B            | MY60241175   | 2022-09-28 |
| Power Control Unit                        | Tonscend     | JS0806-4ADC       | N/A          | 2022-09-28 |
| Automation Control Unit                   | Tonscend     | JS0806-2          | 21C8060396   | 2022-09-28 |
| Test Software                             | Tonscend     | JS1120-3          | N/A          | N/A        |
| Control PC                                | Lenovo       | TianYi510S-071MB  | YLX23JMF     | N/A        |
| Unwanted Emission Testing                 |              |                   |              |            |
| Description                               | Manufacturer | Model             | Serial No.   | Cal. Until |
| EMI Test Receiver                         | R&S          | ESR 7             | 102021       | 2022-08-10 |
| Signal Analyzer                           | R&S          | FSV 40            | 101439       | 2022-08-09 |
| System Controller Interface               | R&S          | SCI-100           | S10010038    | N/A        |
| Filterbank                                | R&S          | Wlan              | 100759       | 2022-08-09 |
| OSP                                       | R&S          | OSP 120           | 102040       | N/A        |
| Pre-amplifier                             | R&S          | SCU08F1           | 08320031     | 2022-08-09 |
| Amplifier                                 | R&S          | SCU-18F           | 180070       | 2022-08-09 |
| Amplifier                                 | R&S          | SCU40A            | 100475       | 2022-08-09 |
| Trilog Broadband Antenna (30 MHz - 7 GHz) | Schwarzbeck  | VULB 9162         | 193          | 2022-08-08 |
| Double-Ridged Antenna (1 -18 GHz)         | ETS-LINDGREN | 3117              | 00218717     | 2022-08-08 |
| Wideband Ridged Horn Antenna (18-40 GHz)  | Steatite     | QMS-00880         | 19067        | 2022-08-08 |
| Active Loop Antenna                       | Schwarzbeck  | FMZB 1513         | 302          | 2022-09-13 |
| Test software                             | R&S          | EMC32 (V10.60.10) | N/A          | N/A        |
| Control PC                                | Dell         | OptiPlex 7050     | 36NV9P2      | N/A        |
| 3m Semi-Anechoic Chamber                  | Albatross    | SAC-3m            | APC17151-SAC | 2024-06-22 |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

| Parameter                  | Uncertainty (k=2)     |
|----------------------------|-----------------------|
| Occupied Channel Bandwidth | $\pm 2.08 \%$         |
| All emissions, radiated    | $\pm 4.17 \text{ dB}$ |

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huangguan Road Middle, Longhua District, Shenzhen 518110, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The product is a **wireless charging module** which supports wireless charging function.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

Table 2: Technical Specification of EUT

| General Information of EUT     | Value                    |
|--------------------------------|--------------------------|
| Kind of Equipment              | Wireless charging module |
| Type Designation               | WL0125                   |
| FCC ID                         | 2A78H-WL0125             |
| Operating Voltage              | DC 20~36V                |
| Technical Specification of WPT |                          |
| Operating Frequency            | 111-205KHz               |
| Modulation                     | FSK                      |
| Antenna Type                   | Induction Coil Antenna   |
| Antenna Gain                   | 0 dBi                    |
| Antenna number                 | 1                        |
| Wireless Charger output power  | 15W Maximum              |

#### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging
- B. Off

#### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

#### 3.5 Submitted Documents

- Application Form

- PCB Layout

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 & 6. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test were applied on model WL0125.

### 4.3 Special Accessories and Auxiliary Equipment

Table 3: List of Accessories and Auxiliary Equipment

| Description     | Manufacturer | Model | S/N    | Rating               |
|-----------------|--------------|-------|--------|----------------------|
| Dummy Load      | YBZ          | N/A   | N/A    | N/A                  |
| DC power Supply | Topward      | 3303D | 809332 | 0-30 Volts, 0-3 Amps |

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

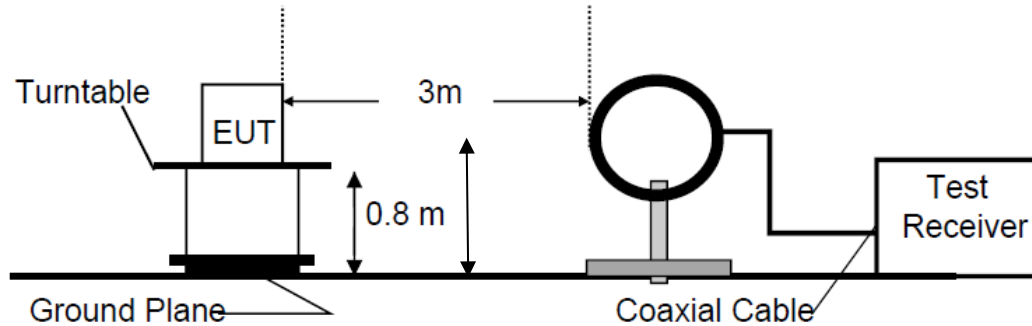
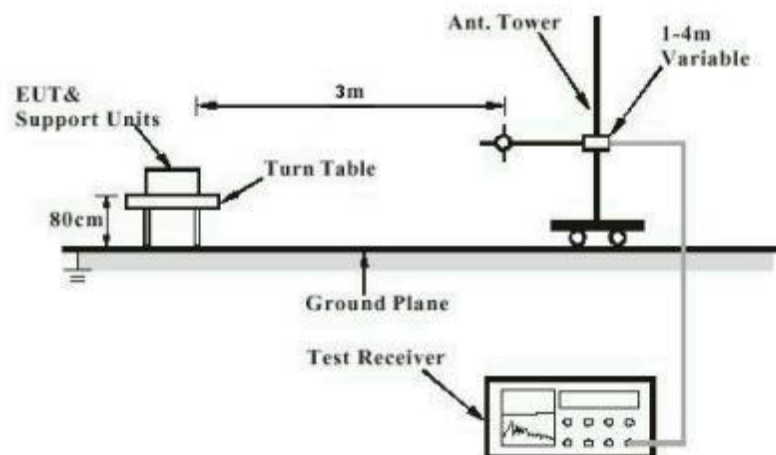


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:

Pass

##### Test Specification

Test standard : Part 15.203

According to the manufacturer declared, the EUT has one internal antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

## 5.1.2 99% Bandwidth

### RESULT:

**Pass**

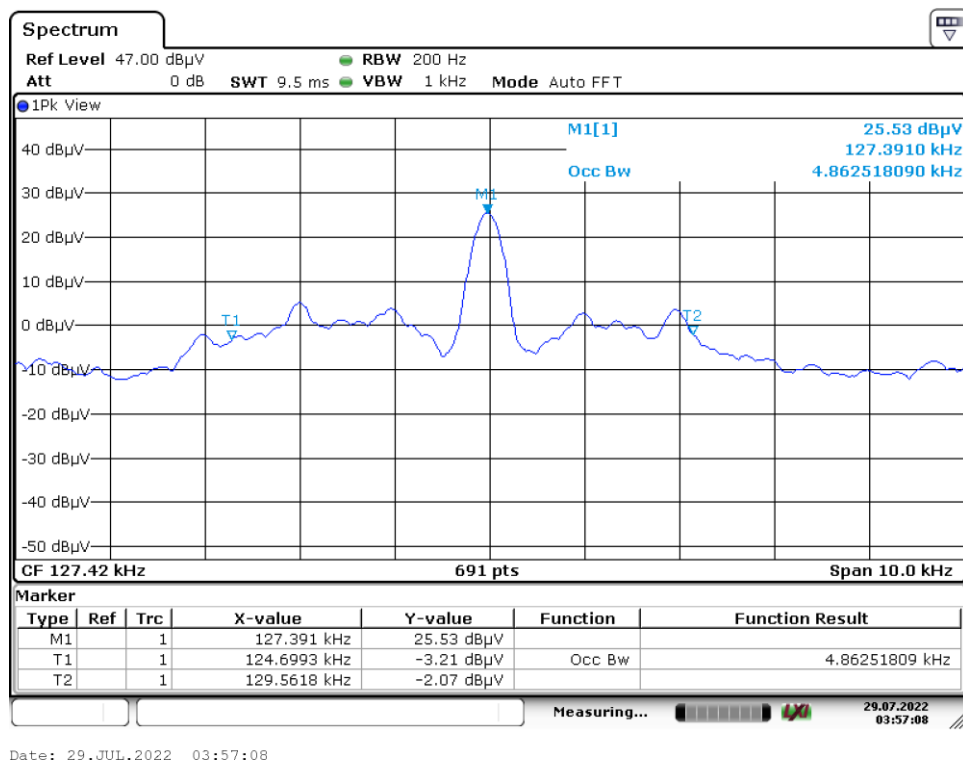
#### Test Specification

Basic standard : ANSI C63.10: 2013  
Kind of test site : Shielded Room

#### Test Setup

Date of testing : 2022-07-29  
Input voltage : DC 24V by DC source  
Operation mode : A  
Ambient temperature : 24.2 °C  
Relative humidity : 53 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the following test plots.



### 5.1.3 20dB Bandwidth

**RESULT:**

**Pass**

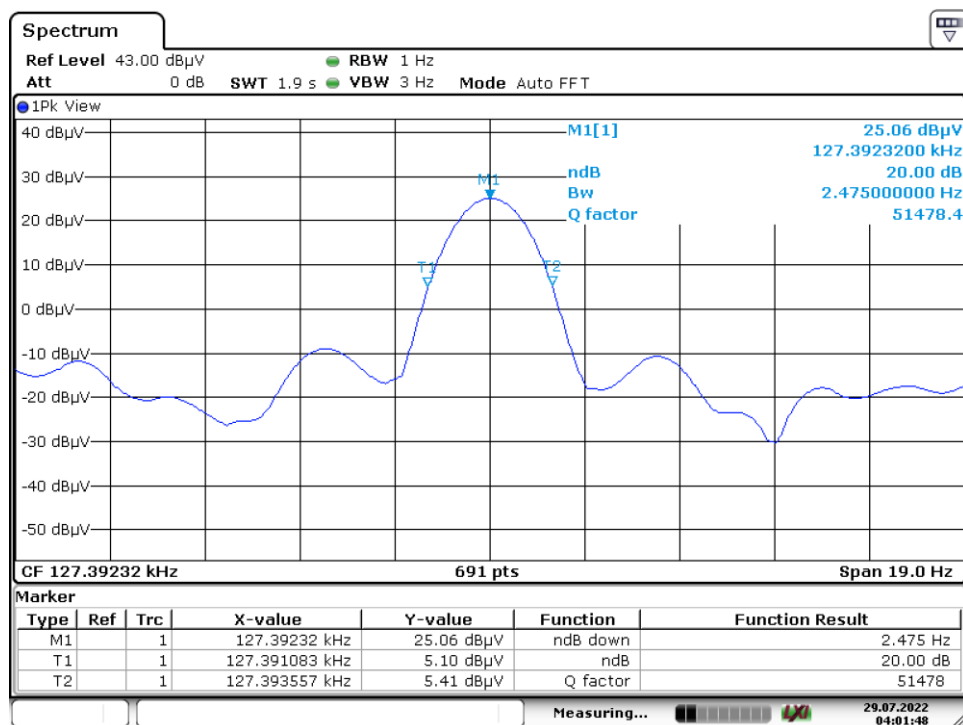
**Test Specification**

Test standard : FCC Part 15.215(c)  
Basic standard : ANSI C63.10: 2013  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 2022-07-29  
Input voltage : DC 24V by DC source  
Operation mode : A  
Ambient temperature : 24.2 °C  
Relative humidity : 53 %  
Atmospheric pressure : 101 kPa

For the measurement records, refer to the following test plots.



Date: 29.JUL.2022 04:01:48

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## 5.1.4 Radiated Spurious Emission

**RESULT:**

**Pass**

### Test Specification

|                   |                            |
|-------------------|----------------------------|
| Test standard     | : FCC Part 15.209 & 15.205 |
| Basic standard    | : ANSI C63.10: 2013        |
| Limits            | : Refer to 15.209(a)       |
| Kind of test site | : 3m Semi-anechoic Chamber |

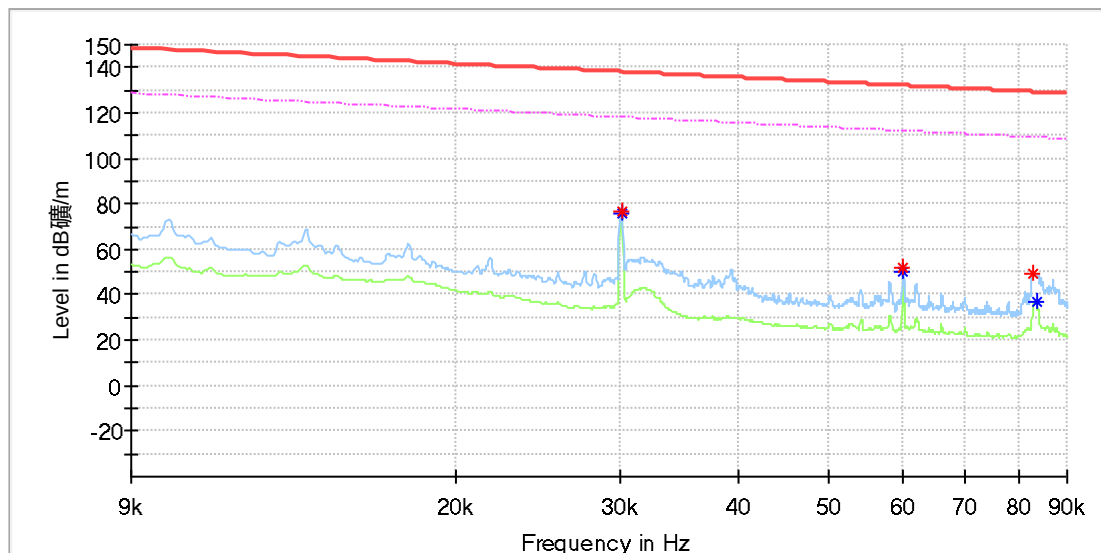
### Test Setup

|                      |                       |
|----------------------|-----------------------|
| Date of testing      | : 2022-07-29          |
| Input voltage        | : DC 24V by DC source |
| Operation mode       | : A                   |
| Ambient temperature  | : 23 °C               |
| Relative humidity    | : 56 %                |
| Atmospheric pressure | : 101 kPa             |

Refer to following test plots for details of test result.

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Wireless charging module |
| Model:              | WL0125                   |
| Test Mode:          | Charging                 |
| Order No/Sample No: | 168377830/A003295820-001 |
| Test Voltage:       | DC 24V From DC Source    |
| Remark:             | Temp 23 Humi:56%         |
| Test Standard:      | FCC Part 15C             |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |

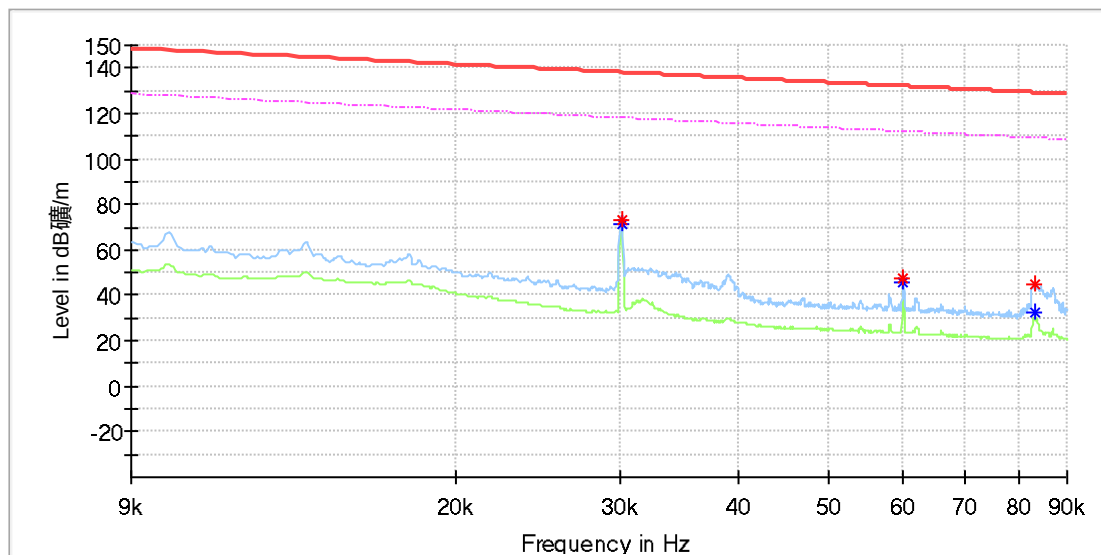


## Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.030060        | 76.95            | ---              | 138.03         | 61.09       | 100.0       | X   | 195.0         | 20.0         |
| 0.030060        | ---              | 76.10            | 118.03         | 41.93       | 100.0       | X   | 195.0         | 20.0         |
| 0.060146        | 51.80            | ---              | 132.01         | 80.21       | 100.0       | X   | 195.0         | 20.0         |
| 0.060146        | ---              | 50.44            | 112.01         | 61.57       | 100.0       | X   | 195.0         | 20.0         |
| 0.082941        | 49.24            | ---              | 129.22         | 79.98       | 100.0       | X   | 195.0         | 20.0         |
| 0.083404        | ---              | 36.91            | 109.17         | 72.26       | 100.0       | X   | 195.0         | 20.0         |

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | Wireless charging module |
| Model:              | WL0125                   |
| Test Mode:          | Charging                 |
| Order No/Sample No: | 168377830/A003295820-001 |
| Test Voltage:       | DC 24V From DC Source    |
| Remark:             | Temp 23 Humi:56%         |
| Test Standard:      | FCC Part 15C             |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |

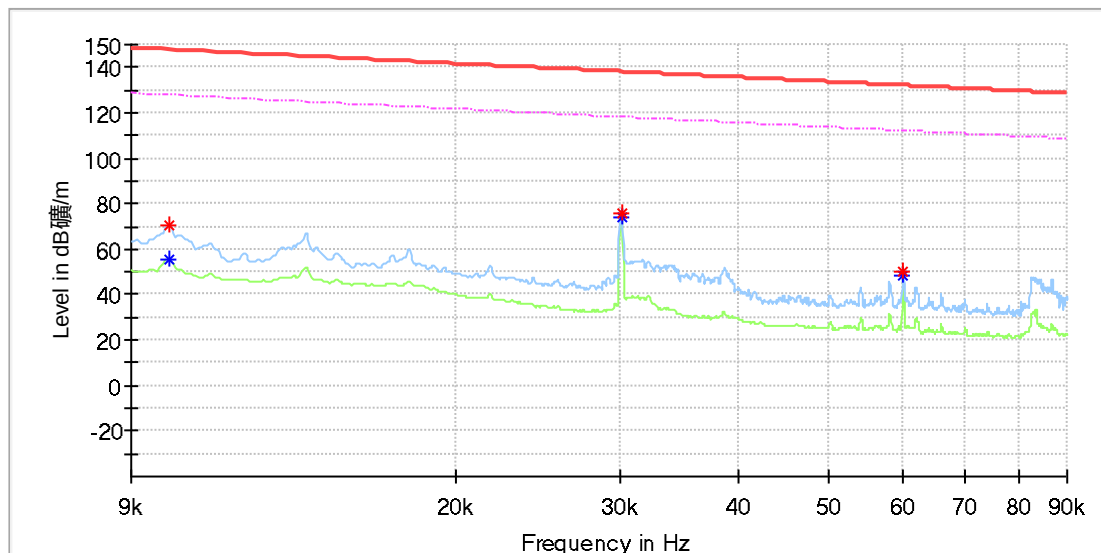


## Critical Freqs

| Frequency (MHz) | MaxPeak (dBμV/m) | Average (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.030060        | 72.70            | ---              | 138.03         | 65.33       | 100.0       | Y   | 259.0         | 20.0         |
| 0.030060        | ---              | 71.32            | 118.03         | 46.71       | 100.0       | Y   | 259.0         | 20.0         |
| 0.060146        | 47.17            | ---              | 132.01         | 84.84       | 100.0       | Y   | 259.0         | 20.0         |
| 0.060146        | ---              | 45.33            | 112.01         | 66.68       | 100.0       | Y   | 259.0         | 20.0         |
| 0.083115        | 44.65            | ---              | 129.20         | 84.55       | 100.0       | Y   | 259.0         | 20.0         |
| 0.083173        | ---              | 32.34            | 109.20         | 76.85       | 100.0       | Y   | 259.0         | 20.0         |

## EUT Information

EUT Name: wireless charging module  
Model: WL0125  
Test Mode: Charging  
Order No/Sample No: 168377830/A003295820-001  
Test Voltage: DC 24V From DC Source  
Remark: Temp 23 Humi:56%  
Test Standard: FCC Part 15C  
Tested By: Kei Zhang  
Reviewed By: Terry Yin

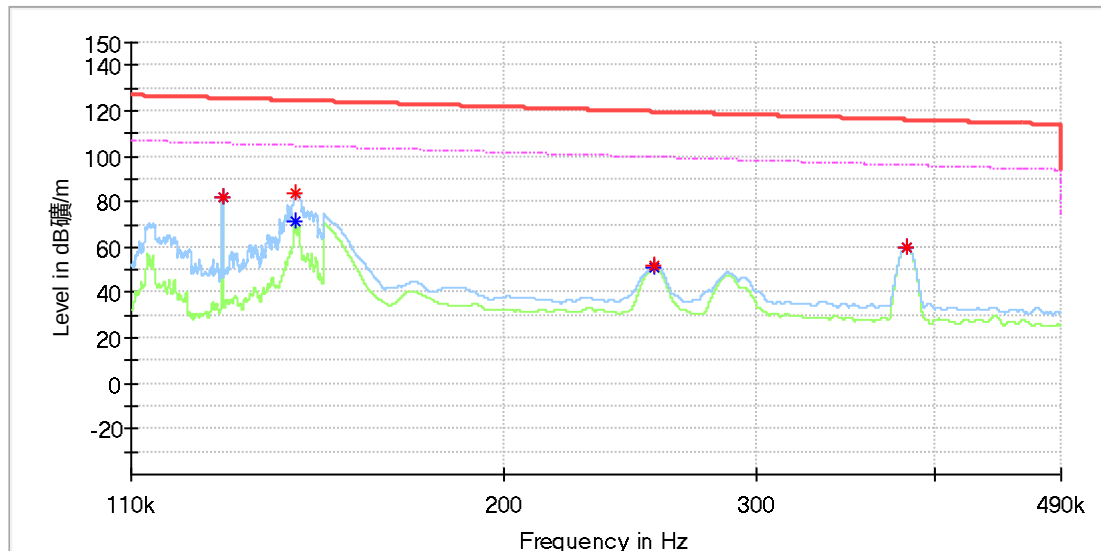


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.009868        | 70.54            | ---              | 147.70         | 77.16       | 100.0       | Z   | 213.0         | 20.0         |
| 0.009868        | ---              | 55.53            | 127.70         | 72.17       | 100.0       | Z   | 213.0         | 20.0         |
| 0.030060        | 75.71            | ---              | 138.03         | 62.32       | 100.0       | Z   | 213.0         | 20.0         |
| 0.030060        | ---              | 74.39            | 118.03         | 43.64       | 100.0       | Z   | 213.0         | 20.0         |
| 0.060146        | 50.35            | ---              | 132.01         | 81.66       | 100.0       | Z   | 213.0         | 20.0         |
| 0.060146        | ---              | 48.41            | 112.01         | 63.60       | 100.0       | Z   | 213.0         | 20.0         |

## EUT Information

EUT Name: wireless charging module  
Model: WL0125  
Test Mode: Charging  
Order No/Sample No: 168377830/A003295820-001  
Test Voltage: DC 24V From DC Source  
Remark: Temp 23 Humi:56%  
Test Standard: FCC Part 15C  
Tested By: Kei Zhang  
Reviewed By: Terry Yin

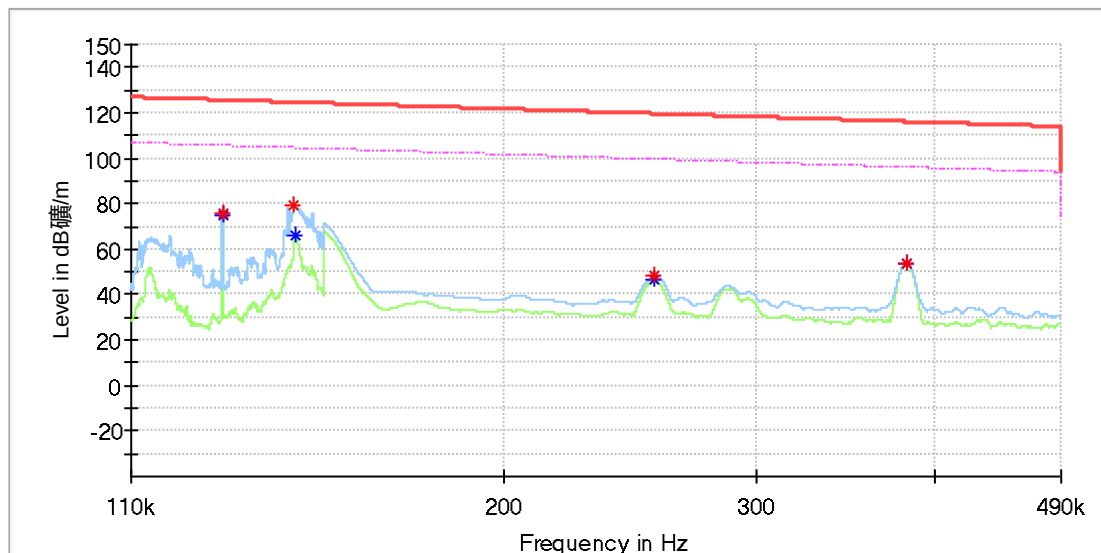


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.127400        | 82.37            | ---              | 125.49         | 43.13       | 100.0       | X   | 124.0         | 20.0         |
| 0.127400        | ---              | 81.86            | 105.49         | 23.63       | 100.0       | X   | 124.0         | 20.0         |
| 0.143057        | ---              | 71.52            | 104.49         | 32.96       | 100.0       | X   | 196.0         | 20.0         |
| 0.143114        | 84.04            | ---              | 124.48         | 40.44       | 100.0       | X   | 196.0         | 20.0         |
| 0.254850        | ---              | 50.64            | 99.48          | 48.84       | 100.0       | X   | 215.0         | 20.0         |
| 0.255100        | 51.99            | ---              | 119.47         | 67.48       | 100.0       | X   | 215.0         | 20.0         |
| 0.382250        | 60.20            | ---              | 115.96         | 55.76       | 100.0       | X   | 129.0         | 20.0         |
| 0.382250        | ---              | 60.08            | 95.96          | 35.87       | 100.0       | X   | 129.0         | 20.0         |

## EUT Information

EUT Name: wireless charging module  
Model: WL0125  
Test Mode: Charging  
Order No/Sample No: 168377830/A003295820-001  
Test Voltage: DC 24V From DC Source  
Remark: Temp 23 Humi:56%  
Test Standard: FCC Part 15C  
Tested By: Kei Zhang  
Reviewed By: Terry Yin

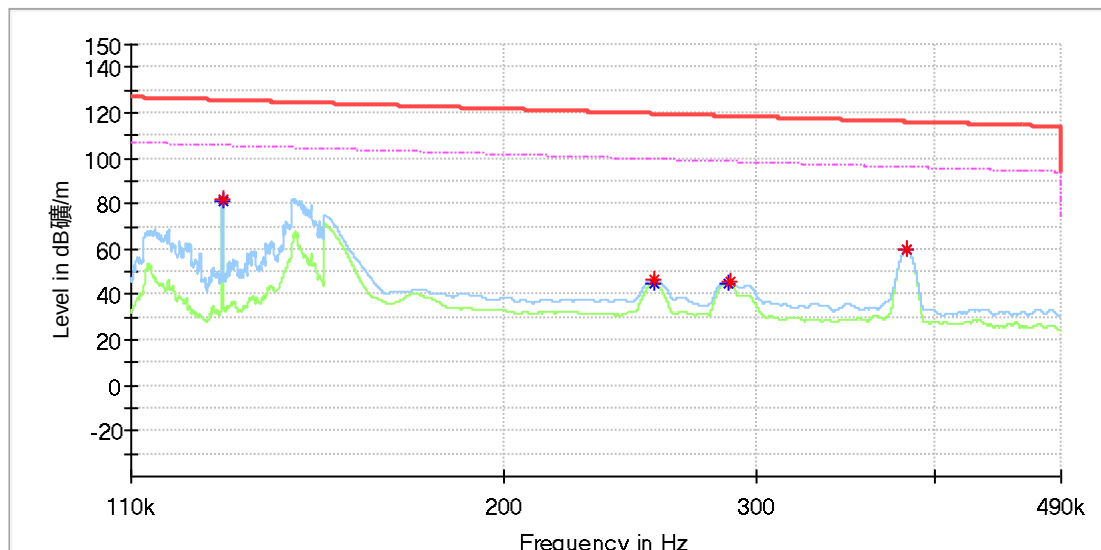


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.127400        | 75.92            | ---              | 125.49         | 49.58       | 100.0       | Y   | 222.0         | 20.0         |
| 0.127400        | ---              | 75.09            | 105.49         | 30.40       | 100.0       | Y   | 222.0         | 20.0         |
| 0.142886        | 78.94            | ---              | 124.50         | 45.56       | 100.0       | Y   | 246.0         | 20.0         |
| 0.143200        | ---              | 66.17            | 104.48         | 38.31       | 100.0       | Y   | 246.0         | 20.0         |
| 0.254600        | ---              | 46.21            | 99.48          | 53.28       | 100.0       | Y   | 140.0         | 20.0         |
| 0.255100        | 47.99            | ---              | 119.47         | 71.48       | 100.0       | Y   | 140.0         | 20.0         |
| 0.382250        | ---              | 53.65            | 95.96          | 42.31       | 100.0       | Y   | 225.0         | 20.0         |
| 0.382300        | 53.95            | ---              | 115.96         | 62.01       | 100.0       | Y   | 225.0         | 20.0         |

## EUT Information

EUT Name: wireless charging module  
Model: WL0125  
Test Mode: Charging  
Order No/Sample No: 168377830/A003295820-001  
Test Voltage: DC 24V From DC Source  
Remark: Temp 23 Humi:56%  
Test Standard: FCC Part 15C  
Tested By: Kei Zhang  
Reviewed By: Terry Yin

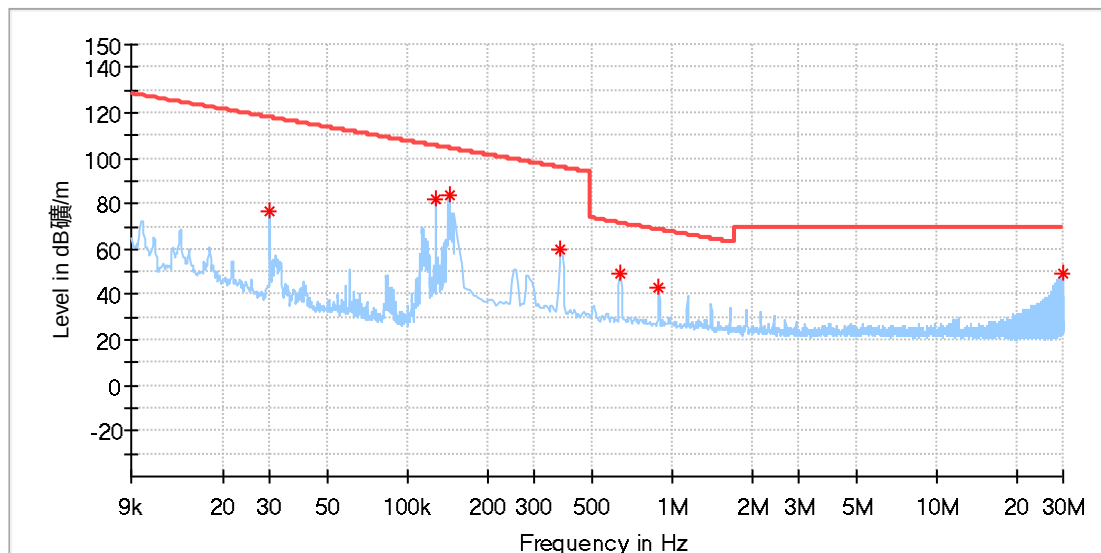


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.127400        | 81.94            | ---              | 125.49         | 43.56       | 100.0       | Z   | 144.0         | 20.0         |
| 0.127400        | ---              | 81.20            | 105.49         | 24.29       | 100.0       | Z   | 144.0         | 20.0         |
| 0.254700        | 46.47            | ---              | 119.48         | 73.01       | 100.0       | Z   | 235.0         | 20.0         |
| 0.254700        | ---              | 44.61            | 99.48          | 54.87       | 100.0       | Z   | 235.0         | 20.0         |
| 0.287100        | ---              | 45.02            | 98.44          | 53.42       | 100.0       | Z   | 194.0         | 20.0         |
| 0.287600        | 46.10            | ---              | 118.43         | 72.32       | 100.0       | Z   | 194.0         | 20.0         |
| 0.382250        | 59.64            | ---              | 115.96         | 56.31       | 100.0       | Z   | 127.0         | 20.0         |
| 0.382250        | ---              | 59.51            | 95.96          | 36.44       | 100.0       | Z   | 127.0         | 20.0         |

## EUT Information

EUT Name: wireless charging module  
Model: WL0125  
Test Mode: Charging  
Order No/Sample No: 168377830/A003295820-001  
Test Voltage: DC 24V From DC Source  
Remark: Temp 23 Humi:56%  
Test Standard: FCC Part 15C  
Tested By: Kei Zhang  
Reviewed By: Terry Yin

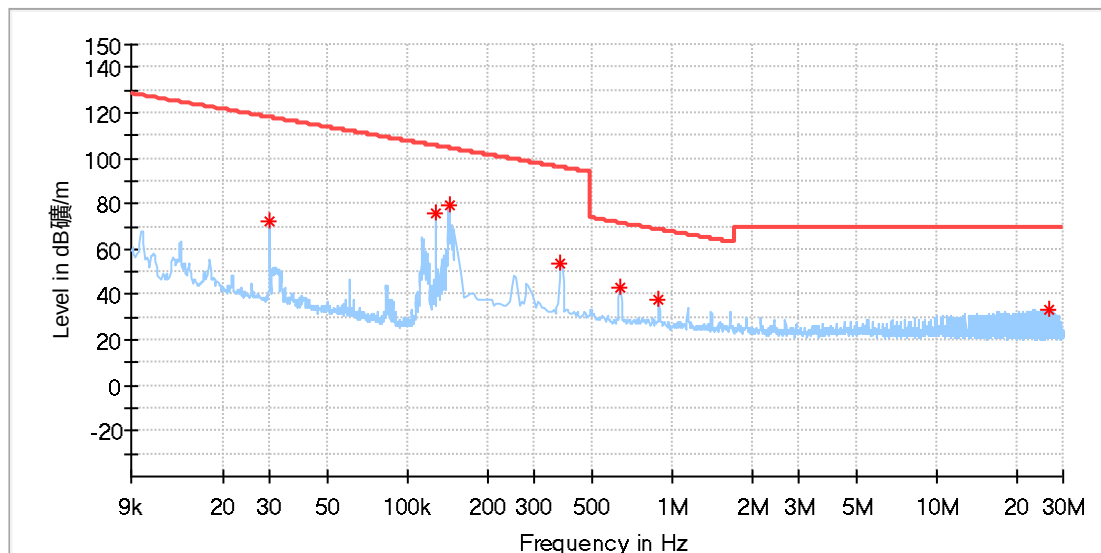


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.030049        | 76.92            | 118.03         | 41.12       | 100.0       | X   | 204.0         | 20.1         |
| 0.127440        | 82.37            | 105.49         | 23.12       | 100.0       | X   | 144.0         | 20.1         |
| 0.143353        | 83.44            | 104.47         | 21.03       | 100.0       | X   | 186.0         | 20.1         |
| 0.378265        | 60.20            | 96.05          | 35.84       | 100.0       | X   | 143.0         | 20.1         |
| 0.637258        | 49.36            | 71.52          | 22.17       | 100.0       | X   | 131.0         | 20.1         |
| 0.887471        | 42.80            | 68.66          | 25.85       | 100.0       | X   | 127.0         | 20.1         |
| 29.938544       | 48.98            | 69.50          | 20.52       | 100.0       | X   | 36.0          | 20.7         |

## EUT Information

EUT Name: wireless charging module  
Model: WL0125  
Test Mode: Charging  
Order No/Sample No: 168377830/A003295820-001  
Test Voltage: DC 24V From DC Source  
Remark: Temp 23 Humi:56%  
Test Standard: FCC Part 15C  
Tested By: Kei Zhang  
Reviewed By: Terry Yin

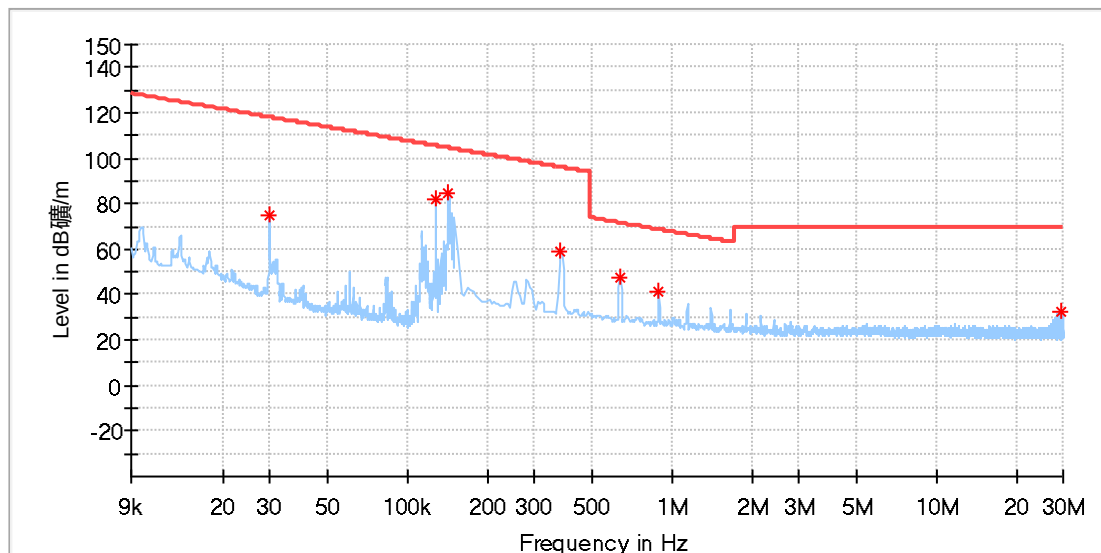


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.030049        | 71.93            | 118.03         | 46.11       | 100.0       | Y   | 245.0         | 20.1         |
| 0.127440        | 75.48            | 105.49         | 30.01       | 100.0       | Y   | 227.0         | 20.1         |
| 0.143353        | 78.91            | 104.47         | 25.56       | 100.0       | Y   | 238.0         | 20.1         |
| 0.378265        | 53.62            | 96.05          | 42.43       | 100.0       | Y   | 227.0         | 20.1         |
| 0.637258        | 42.74            | 71.52          | 28.78       | 100.0       | Y   | 200.0         | 20.1         |
| 0.887471        | 37.33            | 68.66          | 31.33       | 100.0       | Y   | 34.0          | 20.1         |
| 26.624316       | 33.68            | 69.50          | 35.82       | 100.0       | Y   | 34.0          | 20.7         |

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | wireless charging module |
| Model:              | WL0125                   |
| Test Mode:          | Charging                 |
| Order No/Sample No: | 168377830/A003295820-001 |
| Test Voltage:       | DC 24V From DC Source    |
| Remark:             | Temp 23 Humi:56%         |
| Test Standard:      | FCC Part 15C             |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |

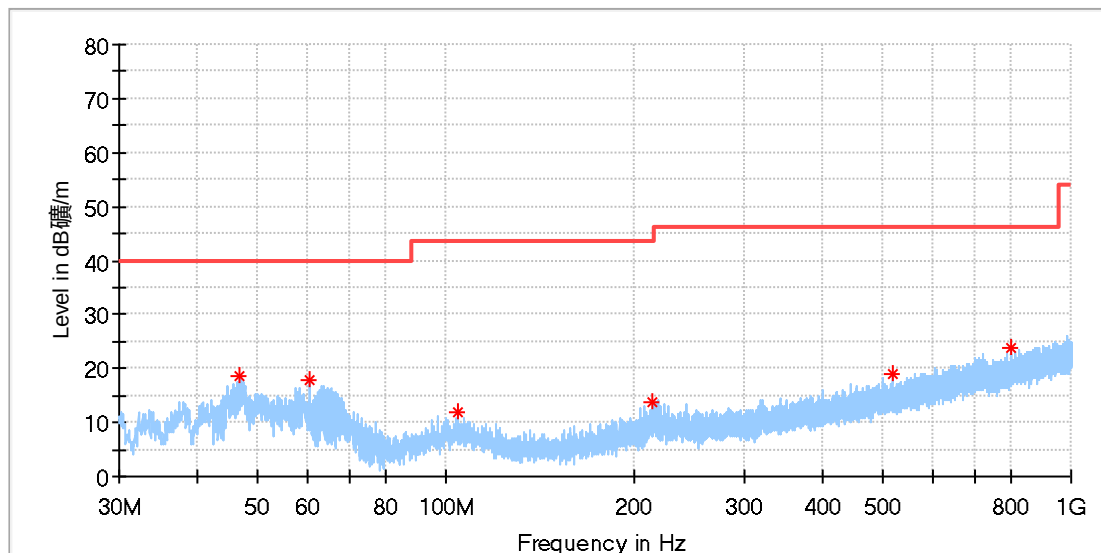


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 0.030049        | 75.28            | 118.03         | 42.75       | 100.0       | Z   | 198.0         | 20.1         |
| 0.127440        | 81.56            | 105.49         | 23.93       | 100.0       | Z   | 155.0         | 20.1         |
| 0.142446        | 84.22            | 104.53         | 20.31       | 100.0       | Z   | 188.0         | 20.1         |
| 0.378265        | 59.39            | 96.05          | 36.66       | 100.0       | Z   | 129.0         | 20.1         |
| 0.637258        | 47.85            | 71.52          | 23.67       | 100.0       | Z   | 116.0         | 20.1         |
| 0.891860        | 40.93            | 68.61          | 27.68       | 100.0       | Z   | 99.0          | 20.1         |
| 29.429338       | 32.59            | 69.50          | 36.91       | 100.0       | Z   | 36.0          | 20.7         |

## EUT Information

|                     |                          |
|---------------------|--------------------------|
| EUT Name:           | wireless charging module |
| Model:              | WL0125                   |
| Test Mode:          | Charging                 |
| Order No/Sample No: | 168377830/A003295820-001 |
| Test Voltage:       | DC 24V From DC Source    |
| Remark:             | Temp 23 Humi:56%         |
| Test Standard:      | FCC Part 15C             |
| Tested By:          | Kei Zhang                |
| Reviewed By:        | Terry Yin                |

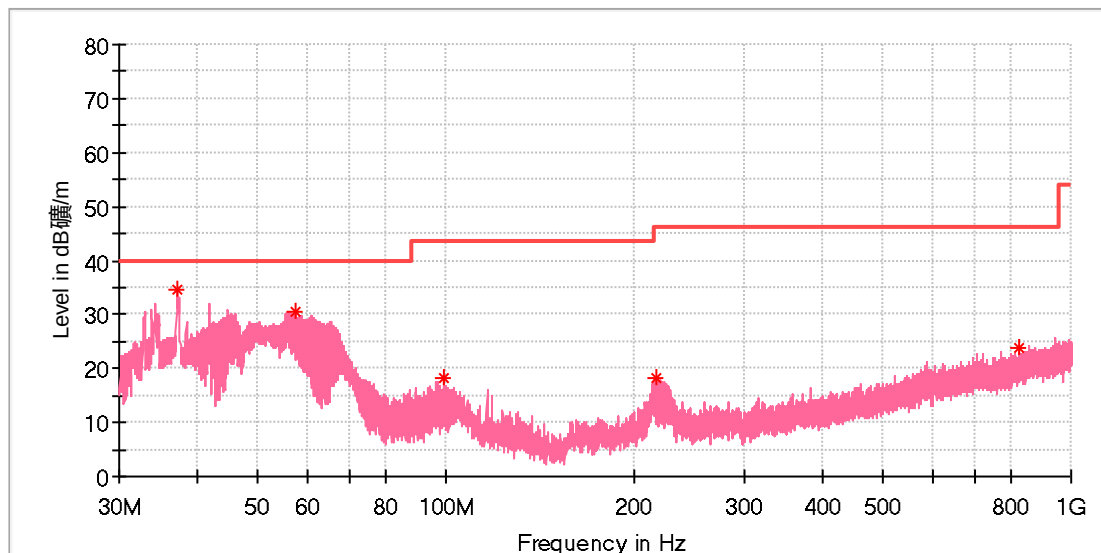


## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 46.863077       | 18.70            | 40.00          | 21.30       | 100.0       | H   | 354.0         | -18.9        |
| 60.517692       | 17.86            | 40.00          | 22.14       | 100.0       | H   | 252.0         | -19.4        |
| 104.615385      | 11.82            | 43.50          | 31.68       | 100.0       | H   | 339.0         | -19.1        |
| 214.523846      | 13.88            | 43.50          | 29.62       | 100.0       | H   | 281.0         | -19.0        |
| 516.529615      | 19.09            | 46.00          | 26.91       | 100.0       | H   | 50.0          | -12.0        |
| 801.933462      | 23.70            | 46.00          | 22.30       | 100.0       | H   | 0.0           | -6.8         |

## EUT Information

EUT Name: wireless charging module  
Model: WL0125  
Test Mode: Charging  
Order No/Sample No: 168377830/A003295820-001  
Test Voltage: DC 24V From DC Source  
Remark: Temp 23 Humi:56%  
Test Standard: FCC Part 15C  
Tested By: Kei Zhang  
Reviewed By: Terry Yin



## Critical\_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 37.200385       | 34.64            | 40.00          | 5.36        | 100.0       | V   | 89.0          | -21.4        |
| 57.458462       | 30.54            | 40.00          | 9.46        | 100.0       | V   | 135.0         | -19.0        |
| 99.131154       | 18.13            | 43.50          | 25.37       | 100.0       | V   | 160.0         | -19.4        |
| 216.575769      | 18.14            | 46.00          | 27.86       | 100.0       | V   | 192.0         | -19.0        |
| 826.966923      | 23.97            | 46.00          | 22.03       | 100.0       | V   | 125.0         | -6.2         |

## 6 Safety Human Exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

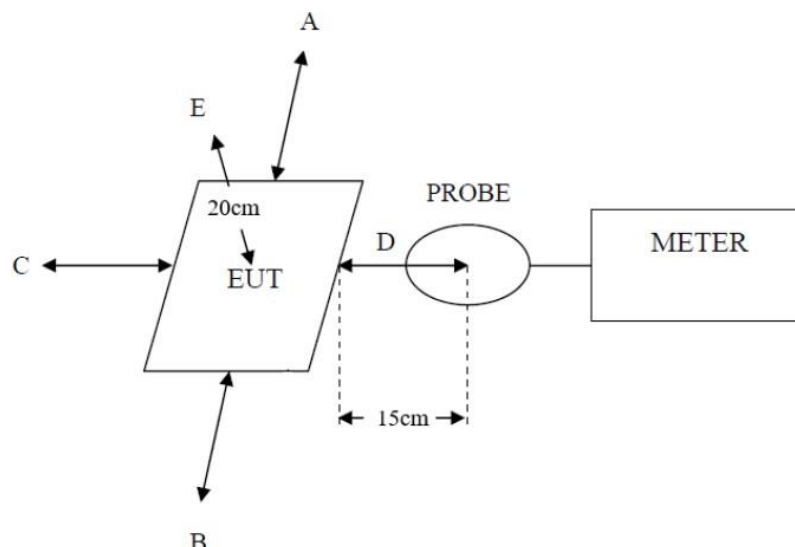
**RESULT:**
**Pass**
**Test Specification**

Test standard : CFR47 FCC Part 2: Subpart J Section 1.1310  
FCC CFR 47 Part 1(1.1310) KDB 680106 D01 v03

According to the table 1 of FCC Part 2.1310, the reference limit as below:

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposure</b>         |                               |                               |                                     |                          |
| 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                        |
| 300-1,500                                                      |                               |                               | f/300                               | 6                        |
| 1,500-100,000                                                  |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 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                       |
| 300-1,500                                                      |                               |                               | f/1500                              | 30                       |
| 1,500-100,000                                                  |                               |                               | 1.0                                 | 30                       |

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

**Test Setup:**


**Prüfbericht - Nr.:** CN2257U7 001  
*Test Report No.:*Seite 26 von 27  
Page 26 of 27**Test Result:**

Table: H-Field Strength at 0 cm from the edges and surface of the EUT

| EUT Test Mode                       | Measured H-Field Strength Values (A/m) |                 |                 |                 |                 | 50% Limit (A/m) | Limit (A/m) | Result |
|-------------------------------------|----------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------|--------|
|                                     | Test Position A                        | Test Position B | Test Position C | Test Position D | Test Position E |                 |             |        |
| Device working at the maximum power | 0.2384                                 | 0.2496          | 0.2672          | 0.2416          | 0.2376          | 0.815           | 1.63        | Pass   |

7 Photographs of the Test Set-Up

Refer to test photo document.

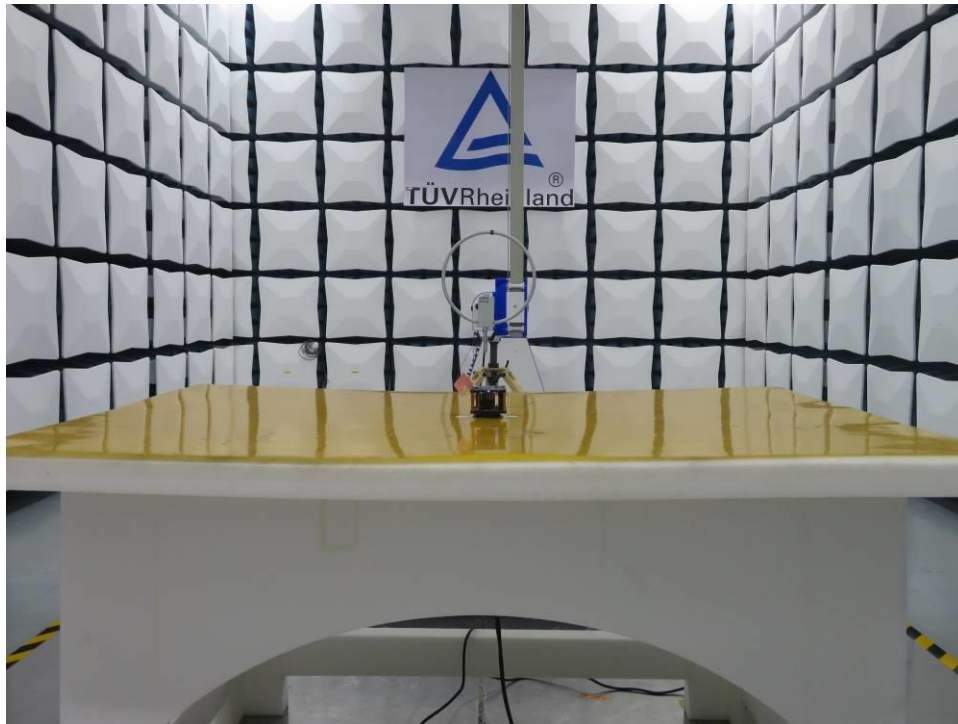
8 List of Tables

|                                                           |   |
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| Table 1: List of Test and Measurement Equipment.....      | 5 |
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| Table 3: List of Accessories and Auxiliary Equipment..... | 8 |

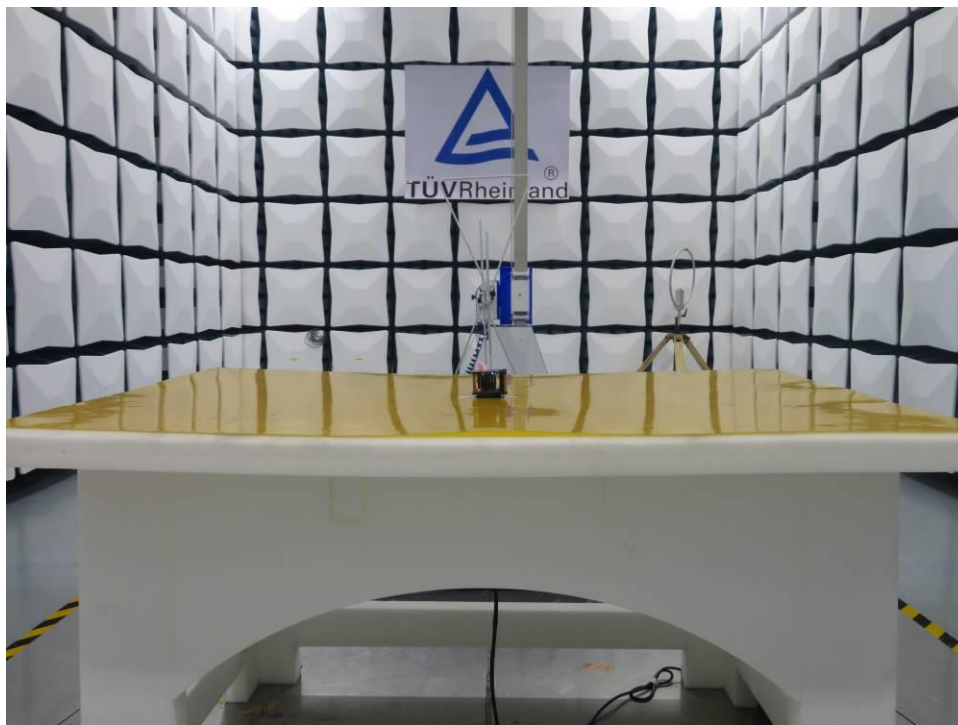
## Appendix A: Photographs of the Test Set-Up

|                                                                               |          |
|-------------------------------------------------------------------------------|----------|
| <b>APPENDIX A: PHOTOGRAPHS OF THE TEST SET-UP .....</b>                       | <b>1</b> |
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| PHOTOGRAPH 3: SET-UP PHOTO FOR RF EXPOSURE .....                              | 3        |

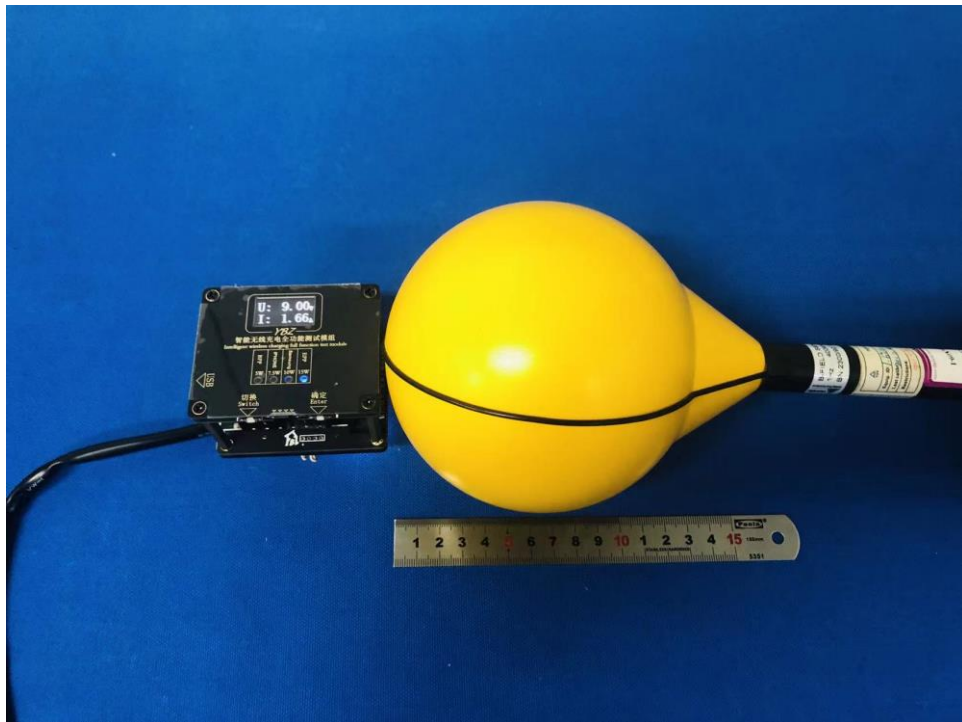
**Photograph 1: Set-up photo for Radiated Spurious Emission, 9KHz - 30MHz**



**Photograph 2: Set-up photo for Radiated Spurious Emission, 30MHz - 1GHz**



Photograph 3: Set-up photo for RF Exposure



-----THE END-----