

# **Test Report**

FCC ID: 2AG8N-17276

Date of issue: Oct. 10, 2018

Report Number: MTi180929E182

Q9 WIRELESS CHARGING PAD Sample Description:

Model(s): QC0016, QC0016-CCK, QC0016-GYW, E-QI-17276-A

Applicant: China Etech Groups Ltd

Room 3A15, Floor4, Block C, Bao Yuan HuaFeng Address:

Headquater, Economy Building, Xixiang Road, Baoan

District, Shenzhen

Date of Test: Sept. 12, 2018 - Oct. 10, 2018

> Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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Tel:(86-755)88850135 Fax: (86-755) 88850136 Address: No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China



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**Test Result Certification** 

| Applicant's name:                              | China Etech Groups Ltd   |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Address:                                       | Room 3A15, Floor4 ,Block C, Bao Yuan HuaFeng Headquater,<br>Economy Building, Xixiang Road, Baoan District, Shenzhen |  |  |  |  |  |
| Manufacture's name:                            | China Etech Gro  | China Etech Groups Ltd                             |  |  |  |  |
| Address:                                       |  | or4 ,Block C, Bao Yuan F<br>g, Xixiang Road, Baoan | •  |  |  |  |
| Product name:                                  | Q9 WIRELESS C  | CHARGING PAD                                       |  |  |  |  |
| Trademark:                                     | N/A  |  |  |  |  |  |
| Model name:                                    | QC0016, QC001  | 6-CCK, QC0016-GYW, I                               | E-QI-17276-A   |  |  |  |
| Standards:                                     | FCC Part 18  |  |  |  |  |  |
| Test Procedure:  ANSI C63.4-2014 FCC/OST MP-5: |  |  |  |  |  |  |
|  | EUT) is in compliance  |  | Ltd. and the test results sho<br>ts. And it is applicable only |  |  |  |
| Tested by                                      | y:   | L  | e Su   |  |  |  |
|  |  | Leo Su   | Oct. 10, 2018  |  |  |  |
| Reviewed by:                                   |  | 13 lue. Therg                                      |  |  |  |  |
|  | •  | Blue Zheng   | Oct. 10, 2018  |  |  |  |
| Approved b                                     | y:   | Smithighen   |  |  |  |  |
|  |  | Smith Chen   | Oct. 10, 2018  |  |  |  |



1 GENERAL INFORMATION

#### 1.1 Feature of equipment under test (EUT)

| Product name:              | Q9 WIRELESS CHARGING PAD  |
|----------------------------|---|
| Brand name:                | N/A   |
| Model name:                | QC0016  |
| Series model:              | QC0016-CCK, QC0016-GYW, E-QI-17276-A  |
| Deference in serial model: | The wireless module used in the product is the same, just named and different colors. |
| Operation frequency:       | 115 – 205 kHz   |
| Operational mode:          | Wireless charging   |
| Modulation type:           | Load modulation   |
| Antenna type:              | Coil Antenna  |
| Power source:              | DC 5V form adapter  |
| Adapter information:       | N/A   |

#### 1.2 Test mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Test mode | Description  |
|-----------|--------------|
| Mode 1    | Charger mode |

Note: The test modes were carried out for all operation modes. The final test mode of the EUT was the worst test mode for EMI, and its test data was showed.

## 1.3 EUT test setup

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

#### 1.4 Ancillary equipment

| Equipment    | Model     | S/N | Manufacturer                         |
|--------------|-----------|-----|--------------------------------------|
| Adapter      | QC5800-EU | /   | Shenzhen Kosun<br>Industrial Co.,Ltd |
| Mobile phone | S8        | /   | SAMSUNG                              |



1.5 Measurement Uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

| Conducted emission(150kHz~30MHz) | ± 2.5 dB  |
|----------------------------------|-----------|
| Radiated emission(30MHz~1GHz)    | ± 4.2 dB  |
| Radiated emission (above 1GHz)   | ± 4.3 dB  |
| Temperature                      | ±1 degree |
| Humidity                         | ±5%       |



2 SUMMARY OF TEST RESULT

| Item                 | Item Description of Test |      |  |
|----------------------|--------------------------|------|--|
| FCC Part 18          |                          |      |  |
| 1 Conducted emission |                          | Pass |  |
| 2 Radiated emission  |                          | Pass |  |
| N/A: Not applicable  |                          |      |  |



3 TEST FACILITIES AND ACCREDITATIONS

# 3.1 Test laboratory

| Test Laboratory       | Shenzhen Microtest Co., Ltd   |  |  |
|-----------------------|---|--|--|
| Location              | No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China |  |  |
| FCC Registration No.: | 448573  |  |  |

# 3.2 Environmental conditions

| Temperature:         | 20°C~30°C    |
|----------------------|--------------|
| Humidity             | 30%~70%      |
| Atmospheric pressure | 98kPa~101kPa |

# 3.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

| RF frequency                     | 1 x 10-7  |  |
|----------------------------------|-----------|--|
| RF power, conducted              | ± 1 dB    |  |
| Conducted emission(150kHz~30MHz) | ± 2.5 dB  |  |
| Radiated emission(30MHz~1GHz)    | ± 4.2 dB  |  |
| Radiated emission (above 1GHz)   | ± 4.3 dB  |  |
| Temperature                      | ±1 degree |  |
| Humidity                         | ±5%       |  |

## 3.4 Test software

| Software<br>Name | Manufacturer | Model | Version   |  |
|------------------|--------------|-------|-----------|--|
| RF Test System   | Farad        | LZ-RF | Lz_Rf 3A3 |  |



**4 LIST OF TEST EQUIPMENT** 

| Equipmen t No. | Equipment<br>Name                                     | Manufactur<br>er                    | Model              | Serial No.        | Calibratio<br>n date | Due date   |
|----------------|---|-------------------------------------|--------------------|-------------------|----------------------|------------|
| MTI-E001       | Spectrum<br>Analyzer                                  | Agilent                             | E4407B             | MY41441082        | 2017/10/18           | 2018/10/17 |
| MTI-E002       | CMU 200<br>universal radio<br>communication<br>tester | Rohde&schw<br>arz                   | CMU 200            | 114587            | 2017/10/18           | 2018/10/17 |
| MTI-E004       | EMI Test Receiver                                     | Rohde&schw<br>arz                   | ESPI               | 1000314           | 2017/10/18           | 2018/10/17 |
| MTI-E006       | Broadband<br>antenna                                  | schwarabeck                         | VULB916<br>3       | 872               | 2017/10/18           | 2018/10/17 |
| MTI-E007       | Horn antenna  | schwarabeck                         | BBHA912<br>0D      | 1201              | 2017/10/18           | 2018/10/17 |
| MTI-E014       | amplifier   | America                             | 8447D              | 3113A06150        | 2017/10/18           | 2018/10/17 |
| MTI-E015       | Conduction<br>Immunity Signal<br>Generator            | Schloder                            | CDG6000            | 126A1343/20<br>15 | 2017/10/18           | 2018/10/17 |
| MTI-E016       | Coupled<br>decoupling<br>network                      | Schloder                            | CDA<br>M2/M3       | A2210332/20<br>15 | 2017/10/18           | 2018/10/17 |
| MTI-E032       | Comprehensive<br>test instrument                      | Rohde&schw<br>arz                   | CMW500             | 124192            | 2018/04/13           | 2019/04/12 |
| MTI-E034       | amplifier   | Agilent                             | 8449B              | 3008A02400        | 2017/10/22           | 2018/10/21 |
| MTI-E037       | Artificial power<br>network                           | Schwarzbeck                         | NSLK812<br>7       | #841              | 2017/10/26           | 2018/10/25 |
| MTI-E040       | Spectrum<br>analyzer                                  | Agilent                             | N9020A             | MY49100060        | 2018/03/05           | 2019/03/04 |
| MTI-E041       | Signal generator                                      | Agilent                             | N5182A             | MY49060455        | 2018/02/23           | 2019/02/22 |
| MTI-E042       | Analog signal generator                               | Agilent                             | E4421B             | GB40051240        | 2018/02/23           | 2019/02/22 |
| MTI-E043       | Power probe   | Dare<br>Instruments                 | RPR3006<br>W       | 16I00054SN<br>O16 | 2018/02/28           | 2019/02/28 |
| MTI-E047       | 10dB attenuator                                       | Mini-Circuits                       | UNAT-10+           | 15542             | 2018/05/23           | 2019/05/23 |
| MTI-E049       | spectrum<br>analyzer                                  | Rohde&schw<br>arz                   | FSP-38             | 100019            | 2017/10/18           | 2018/10/17 |
| MTI-E050       | PSG Signal generator                                  | Agilent                             | E8257D             | MY46520873        | 2018/04/24           | 2019/04/23 |
| MTI-E051       | Active Loop<br>Antenna 9kHz -<br>30MHz                | Schwarzbeek                         | FMZB<br>1519 B     | 00044             | 2018/2/26            | 2019/02/25 |
| MTI-E052       | 18-40GHz<br>amplifier                                 | Chengdu<br>step Micro<br>Technology | ZLNA-18-<br>40G-21 | 1608001           | 2017/10/18           | 2018/10/17 |
| MTI-E053       | 15-40G Antenna  | Schwarzbeek                         | BBHA917<br>0       | BBHA91705<br>82   | 2017/10/18           | 2018/10/17 |
| MTI-E058       | Artificial power network                              | Schwarzbeck                         | NSLK812<br>7       | #841              | 2017/12/05           | 2018/12/04 |

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



#### 5 TEST RESULTS

#### 5.1 Conducted emission

#### **5.1.1 Limits**

For the following equipment, when designed to be connected to the public utility (AC) power line the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN).

| Frequency | Conducted limit (dBµV) |           |  |  |  |  |
|-----------|------------------------|-----------|--|--|--|--|
| (MHz)     | Quasi-peak             | Average   |  |  |  |  |
| 0.15 -0.5 | 66 - 56 *              | 56 - 46 * |  |  |  |  |
| 0.5 -5    | 56                     | 46        |  |  |  |  |
| 5 -30     | 60                     | 50        |  |  |  |  |

Note: the limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

#### 5.1.2 Test Procedures

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

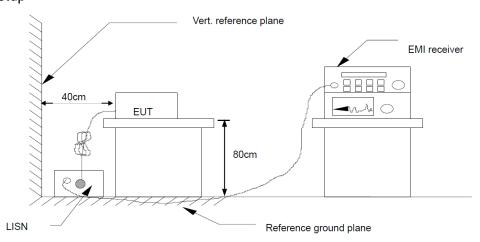
Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN is at least 80 cm from nearest part of EUT chassis.

For the actual test configuration, please refer to the related Item – photographs of the test setup.

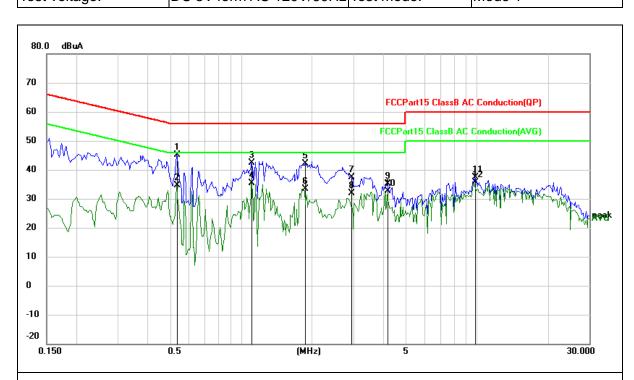
#### 5.1.3 Test Setup



#### 5.1.4 Test Result



Temperature:27°CRelative Humidity:65%Pressure:101kPaPhase:LTest voltage:DC 5V form AC 120V/60HzTest mode:Mode 1

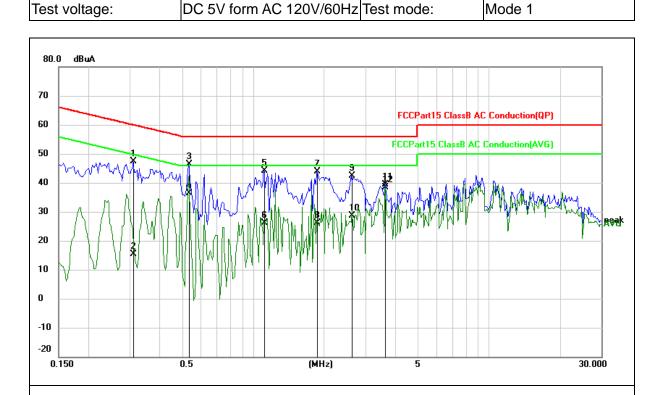


| No. | Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |  |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|--|
|     |     | MHz    | dBuV             | dB                | dBuA             | dBuA  | dB     | Detector | Comment |  |
| 1   |     | 0.5328 | 43.56            | 1.57              | 45.13            | 56.00 | -10.87 | QP       |         |  |
| 2   |     | 0.5328 | 33.10            | 1.57              | 34.67            | 46.00 | -11.33 | AVG      |         |  |
| 3   |     | 1.1109 | 40.79            | 1.58              | 42.37            | 56.00 | -13.63 | QP       |         |  |
| 4   | *   | 1.1109 | 33.87            | 1.58              | 35.45            | 46.00 | -10.55 | AVG      |         |  |
| 5   |     | 1.8687 | 40.65            | 1.59              | 42.24            | 56.00 | -13.76 | QP       |         |  |
| 6   |     | 1.8687 | 31.82            | 1.59              | 33.41            | 46.00 | -12.59 | AVG      |         |  |
| 7   |     | 2.9462 | 36.44            | 1.04              | 37.48            | 56.00 | -18.52 | QP       |         |  |
| 8   |     | 2.9462 | 30.92            | 1.04              | 31.96            | 46.00 | -14.04 | AVG      |         |  |
| 9   |     | 4.1718 | 34.35            | 0.79              | 35.14            | 56.00 | -20.86 | QP       |         |  |
| 10  |     | 4.1718 | 31.83            | 0.79              | 32.62            | 46.00 | -13.38 | AVG      |         |  |
| 11  |     | 9.8397 | 36.93            | 0.39              | 37.32            | 60.00 | -22.68 | QP       |         |  |
| 12  |     | 9.8397 | 35.20            | 0.39              | 35.59            | 50.00 | -14.41 | AVG      |         |  |



Temperature: 27°C Relative Humidity: 65%

Pressure: 101kPa Phase: N



| No. Mk. | Freq.  | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit | Over   |          |         |  |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|--|
|         | MHz    | dBuV             | dB                | dBuA             | dBuA  | dB     | Detector | Comment |  |
| 1       | 0.3102 | 45.73            | 1.57              | 47.30            | 59.97 | -12.67 | QP       |         |  |
| 2       | 0.3102 | 13.86            | 1.57              | 15.43            | 49.97 | -34.54 | AVG      |         |  |
| 3       | 0.5328 | 44.89            | 1.57              | 46.46            | 56.00 | -9.54  | QP       |         |  |
| 4       | 0.5328 | 34.70            | 1.57              | 36.27            | 46.00 | -9.73  | AVG      |         |  |
| 5       | 1.1148 | 42.52            | 1.58              | 44.10            | 56.00 | -11.90 | QP       |         |  |
| 6       | 1.1148 | 24.66            | 1.58              | 26.24            | 46.00 | -19.76 | AVG      |         |  |
| 7       | 1.8648 | 42.26            | 1.59              | 43.85            | 56.00 | -12.15 | QP       |         |  |
| 8       | 1.8648 | 24.44            | 1.59              | 26.03            | 46.00 | -19.97 | AVG      |         |  |
| 9       | 2.6148 | 41.29            | 1.19              | 42.48            | 56.00 | -13.52 | QP       |         |  |
| 10      | 2.6148 | 27.38            | 1.19              | 28.57            | 46.00 | -17.43 | AVG      |         |  |
| 11      | 3.6406 | 38.40            | 0.94              | 39.34            | 56.00 | -16.66 | QP       |         |  |
| 12 *    | 3.6406 | 37.35            | 0.94              | 38.29            | 46.00 | -7.71  | AVG      |         |  |



5.2 Radiated emission

#### 5.2.1 Limits

#### Frequency range (9kHz – 30MHz)

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

| Frequency<br>(MHz) | Field Strengths Limit<br>(at 3m) dBµV/m | Detector |
|--------------------|---|----------|
| 0.009-30           | 103.5                                   | Peak     |

#### Remark:

- (1) Emission level  $dB\mu V/m$  for  $0.009\sim30MHz=20log~(15)+40log~(300/3)~dB\mu V/m$ ;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

# Frequency range (30MHz - 1GHz)

| Frequency<br>(MHz) | Class B device<br>(at 3m) dBµV/m | Detector |
|--------------------|----------------------------------|----------|
| 30-88              | 40                               | QP       |
| 88-216             | 43.5                             | QP       |
| 216-1000           | 46                               | QP       |

#### 5.2.2 Test Procedures

The radiated emission tests were performed in the 3 meters.

The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

If the peak mode measured value compliance with and lower than quasi peak mode limit, the EUT shall be deemed to meet QP limits and then no additional QP mode measurement performed.

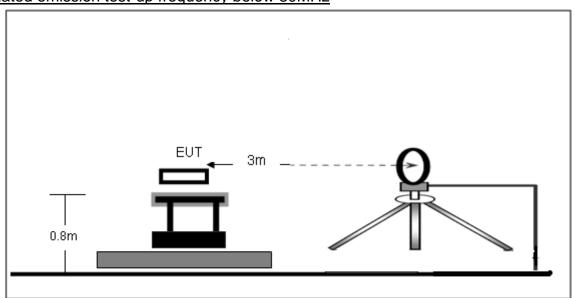
If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.

For the actual test configuration, please refer to the related item – EUT test photos.

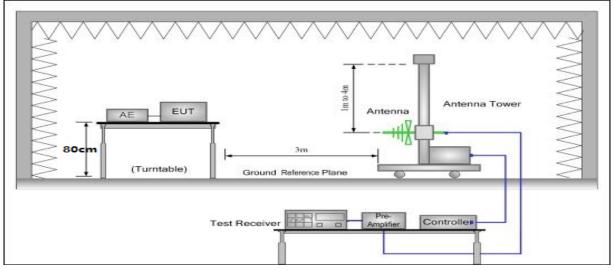


# 5.2.3 Test Setup

# Radiated emission test-up frequency below 30MHz



Radiated emission test-up frequency 30MHz~1GHz





## 5.2.4 Test Result

# Frequency range (9kHz - 30MHz)

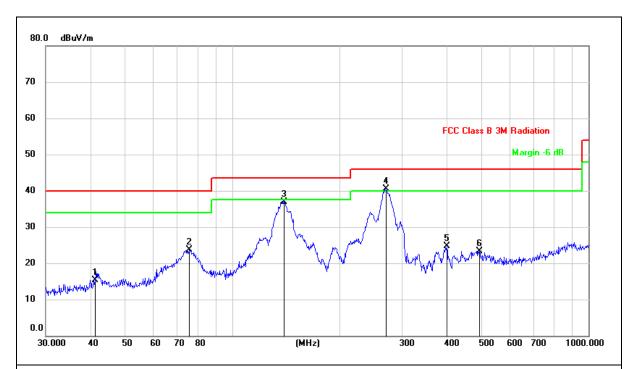
| Temperature:  | 23℃                     | Relative Humidity: | 59%        |
|---------------|-------------------------|--------------------|------------|
| Pressure:     | 101kPa                  | Polarization:      | Horizontal |
| Test voltage: | DC 5V form AC 120V/60Hz | Test mode:         | Mode 1     |

| Frequency | Reading<br>Level | Cable<br>Loss | Antenna<br>Factor | Emission<br>Level | Limits   | Margin | Detector | Comment    |
|-----------|------------------|---------------|-------------------|-------------------|----------|--------|----------|------------|
| (MHz)     | (dBµV)           | (dB)          | dB/m              | (dBµV/m)          | (dBµV/m) | (dB)   | Туре     |            |
| 0.017     | 56.05            | 0.30          | 20.55             | 76.90             | 103.5    | -26.60 | Pk       | Horizontal |
| 0.076     | 54.16            | 0.30          | 20.60             | 75.06             | 103.5    | -28.44 | Pk       | Horizontal |
| 0.115     | 68.73            | 0.30          | 20.75             | 89.78             | 103.5    | -13.72 | Pk       | Horizontal |
| 1.831     | 41.24            | 0.30          | 20.82             | 62.36             | 103.5    | -41.14 | Pk       | Horizontal |
| 8.744     | 36.62            | 0.30          | 20.87             | 57.79             | 103.5    | -45.71 | Pk       | Horizontal |
| 15.426    | 35.53            | 0.30          | 20.91             | 56.74             | 103.5    | -46.76 | Pk       | Horizontal |



Frequency range (30MHz - 1GHz)

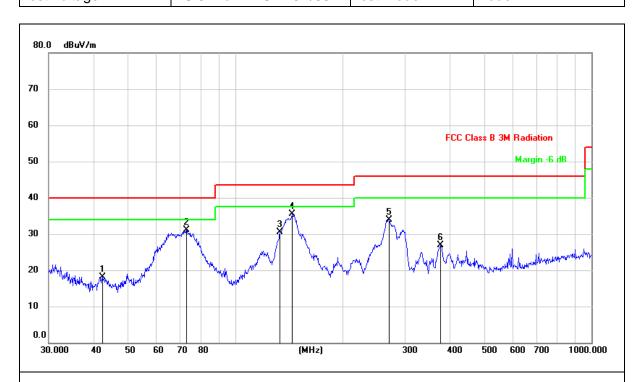
| Temperature:  | <b>23</b> ℃             | Relative Humidity: | 59%        |
|---------------|-------------------------|--------------------|------------|
| Pressure:     | 101kPa                  | Polarization:      | Horizontal |
| Test voltage: | DC 5V form AC 120V/60Hz | Test mode:         | Mode 1     |



| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          | Antenna<br>Height | Table<br>Degree |         |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
|     |     | MHz      | dBuV             | dBuV/m            | dBuV/m           | dBuV/m | dB     | Detector | cm                | degree          | Comment |
| 1   |     | 41.2764  | 25.74            | -10.41            | 15.33            | 40.00  | -24.67 | QP       |                   |                 |         |
| 2   |     | 75.7113  | 38.44            | -14.73            | 23.71            | 40.00  | -16.29 | QP       |                   |                 |         |
| 3   |     | 139.8508 | 51.88            | -14.90            | 36.98            | 43.50  | -6.52  | QP       |                   |                 |         |
| 4 1 | *   | 269.4284 | 49.97            | -9.47             | 40.50            | 46.00  | -5.50  | QP       |                   |                 |         |
| 5   |     | 400.4318 | 31.32            | -6.54             | 24.78            | 46.00  | -21.22 | QP       |                   |                 |         |
| 6   |     | 494.1984 | 28.56            | -5.16             | 23.40            | 46.00  | -22.60 | QP       |                   |                 |         |

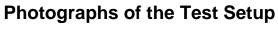


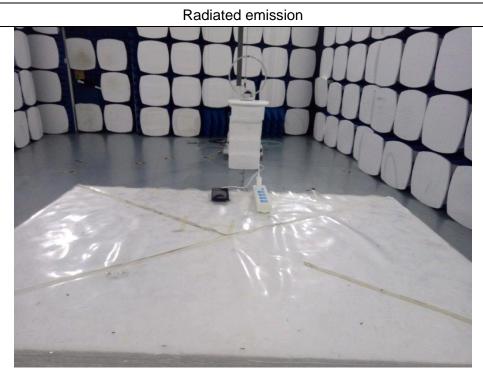
| Temperature:  | 23℃                     | Relative Humidity: | 59%      |
|---------------|-------------------------|--------------------|----------|
| Pressure:     | 101kPa                  | Polarization:      | Vertical |
| Test voltage: | DC 5V form AC 120V/60Hz | Test mode:         | Mode 1   |

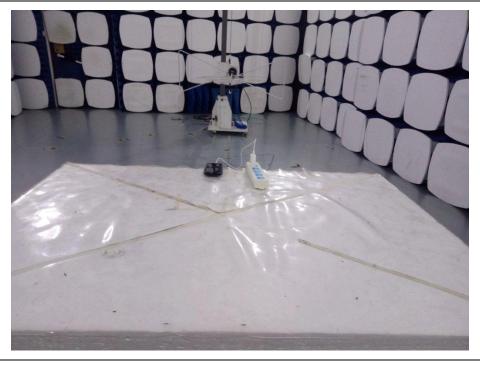


| No. | Mk. | Freq.    | Reading<br>Level | Correct<br>Factor | Measure-<br>ment | Limit  | Over   |          | Antenna<br>Height | Table<br>Degree |         |
|-----|-----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
|     |     | MHz      | dBuV             | dBuV/m            | dBuV/m           | dBuV/m | dB     | Detector | cm                | degree          | Comment |
| 1   |     | 42.4508  | 28.27            | -10.18            | 18.09            | 40.00  | -21.91 | QP       |                   |                 |         |
| 2   |     | 73.1025  | 44.82            | -13.63            | 31.19            | 40.00  | -8.81  | QP       |                   |                 |         |
| 3   |     | 133.6187 | 44.12            | -13.64            | 30.48            | 43.50  | -13.02 | QP       |                   |                 |         |
| 4   | *   | 144.3348 | 49.28            | -13.71            | 35.57            | 43.50  | -7.93  | QP       |                   |                 |         |
| 5   |     | 269.4284 | 42.41            | -8.59             | 33.82            | 46.00  | -12.18 | QP       |                   |                 |         |
| 6   |     | 377.2590 | 33.90            | -7.02             | 26.88            | 46.00  | -19.12 | QP       |                   |                 |         |

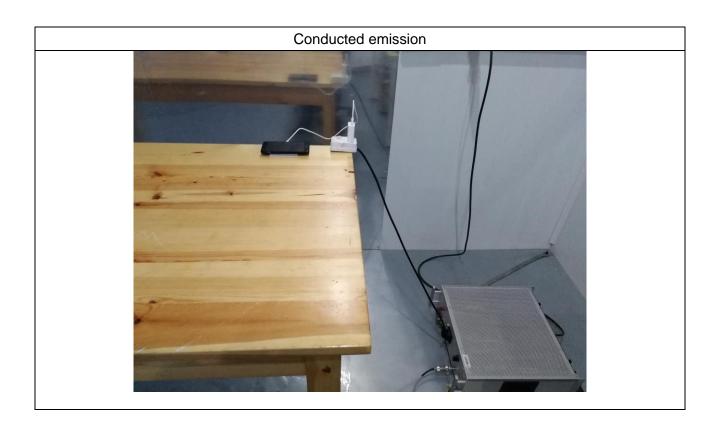


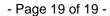














# Photographs of the EUT

See the APPENDIX 1: EUT PHOTO in the report NO.: MTi180929E182-1

----END OF REPORT----