

# FCC Test Report

APPLICANT : Solnik S.A.  
EQUIPMENT : Mobile Phone  
BRAND NAME : HYUNDAI  
MODEL NAME : HY1-7372  
FCC ID : 2AFRUHY1-7372  
STANDARD : FCC 47 CFR FCC Part 15 Subpart B  
CLASSIFICATION : Certification

The product was received on Oct. 09, 2016 and testing was completed on Oct. 13, 2016. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

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



Prepared by: Ken Chen / Manager



Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (SHENZHEN) INC.**

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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FC6O0902   | Rev. 01 | Initial issue of report | Oct. 27, 2016 |
|            |         |                         |               |
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## SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description           | Limit           | Result | Remark                                  |
|----------------|----------|-----------------------|-----------------|--------|-----------------------------------------|
| 3.1            | 15.107   | AC Conducted Emission | < 15.107 limits | PASS   | Under limit<br>11.77 dB at<br>0.150 MHz |
| 3.2            | 15.109   | Radiated Emission     | < 15.109 limits | PASS   | Under limit<br>6.45 dB at<br>32.970 MHz |



## 1. General Description

### 1.1. Applicant

**Solnik S.A.**

Dr. Emilio Ravignani 1724 Ciudad Autonoma de Buenos Aires Zip Code 1414 Argentina

### 1.2. Manufacturer

**Gionee Communication Equipment Co., Ltd.**

21/F, Times Technology Building, No. 7028, Shennan Avenue, Futian District, Shenzhen, China

### 1.3. Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Phone                                                                                                                  |
| Brand Name                      | HYUNDAI                                                                                                                       |
| Model Name                      | HY1-7372                                                                                                                      |
| FCC ID                          | 2AFRUHY1-7372                                                                                                                 |
| EUT supports Radios application | GSM/GPRS/EGPRS/<br>WCDMA/HSPA/DC-HSDPA/HSPA+/LTE<br>WLAN2.4GHz 802.11b/g/n HT20/HT40/<br>Bluetooth v3.0+EDR/Bluetooth v4.0 LE |
| IMEI Code                       | Conduction: 354147042119900/354147043119909<br>Radiation: 354147042119991/354147043119990                                     |
| HW Version                      | Ultra Shadow_Mainboard_P2                                                                                                     |
| SW Version                      | Ultra Shadow_0205_V5353                                                                                                       |
| EUT Stage                       | Pre-Production                                                                                                                |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4. Product Specification of Equipment Under Test

| Standards-related Product Specification |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tx Frequency</b>                     | GSM850: 824.2 MHz ~ 848.8 MHz<br>GSM1900: 1850.2 MHz ~ 1909.8MHz<br>WCDMA Band V: 826.4 MHz ~ 846.6 MHz<br>WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz<br>LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz<br>LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz<br>802.11b/g/n: 2412 MHz ~ 2462 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz                                                                                                                                                        |
| <b>Rx Frequency</b>                     | GSM850: 869.2 MHz ~ 893.8 MHz<br>GSM1900: 1930.2 MHz ~ 1989.8 MHz<br>WCDMA Band V: 871.4 MHz ~ 891.6 MHz<br>WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz<br>LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz<br>LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz<br>802.11b/g/n: 2412 MHz ~ 2462 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz<br>GPS : 1.57542 GHz<br>Glonass : 1602 MHz + $n \times 0.5625\text{MHz}$ ( $n=-7, -6, -5, \dots, 0, \dots, 6$ )                                       |
| <b>Antenna Type</b>                     | WWAN : FPC Antenna<br>WLAN : FPC Antenna<br>Bluetooth : FPC Antenna<br>GPS/Glonass : FPC Antenna                                                                                                                                                                                                                                                                                                                                                               |
| <b>Type of Modulation</b>               | GSM: GMSK<br>GPRS: GMSK<br>EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK<br>WCDMA : BPSK (Uplink)<br>HSDPA/DC-HSDPA : QPSK (Uplink)<br>HSUPA : QPSK (Uplink)<br>HSPA+ : 16QAM (Uplink)<br>DC-HSDPA : 64QAM<br>LTE: QPSK / 16QAM<br>802.11b : DSSS (DBPSK / DQPSK / CCK)<br>802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>Bluetooth LE : GFSK<br>Bluetooth (1Mbps) : GFSK<br>Bluetooth (2Mbps) : $\pi/4$ -DQPSK<br>Bluetooth (3Mbps) : 8-DPSK<br>GPS/Glonass : BPSK |

## 1.5. Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6. Test Location

|                           |                                                                                                                                                                                    |  |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL (SHENZHEN) INC.                                                                                                                                              |  |
| <b>Test Site Location</b> | 1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China<br>TEL: +86-755-8637-9589<br>FAX: +86-755-8637-9595 |  |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                                            |  |
|                           | CO01-SZ                                                                                                                                                                            |  |

|                           |                                                                                                                                                                 |                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL (SHENZHEN) INC.                                                                                                                           |                             |
| <b>Test Site Location</b> | No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China<br>TEL: +86-755- 3320-2398 |                             |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                                                                         | <b>FCC Registration No.</b> |
|                           | 03CH02-SZ                                                                                                                                                       | 566869                      |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

## 1.7. Applicable Standards

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

- ♦ FCC 47 CFR FCC Part 15 Subpart B
- ♦ ANSI C63.4-2014

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

## 2. Test Configuration of Equipment Under Test

### 2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The following tables are showing the test modes as the worst cases and recorded in this report.

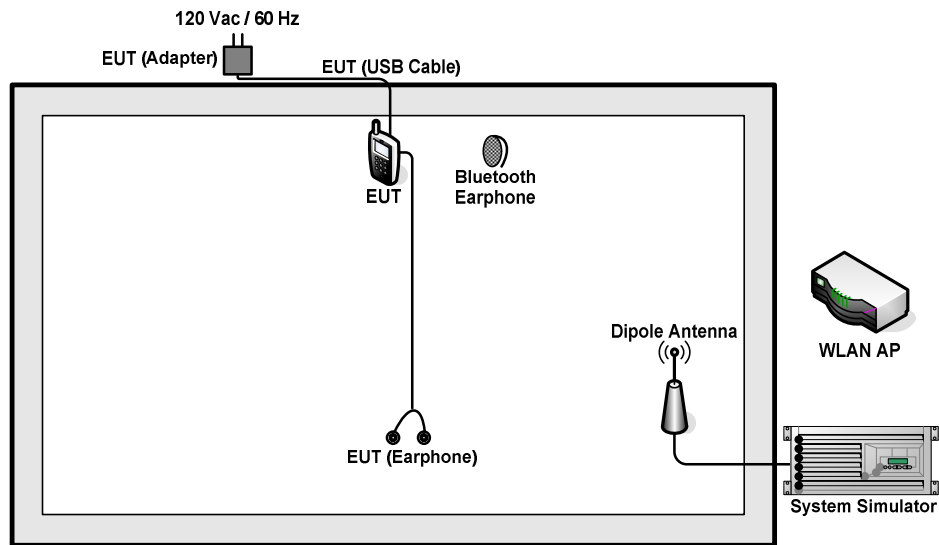
| Item | EUT Configuration                                     | Test Condition |           |           |
|------|-------------------------------------------------------|----------------|-----------|-----------|
|      |                                                       | EMI AC         | EMI RE<1G | EMI RE≥1G |
| 1.   | Charging Mode (EUT with adapter)                      | ☒              | ☒         | ☒         |
| 2.   | Data application transferred mode (EUT with notebook) | ☒              | ☒         | ☒         |

#### Abbreviations:

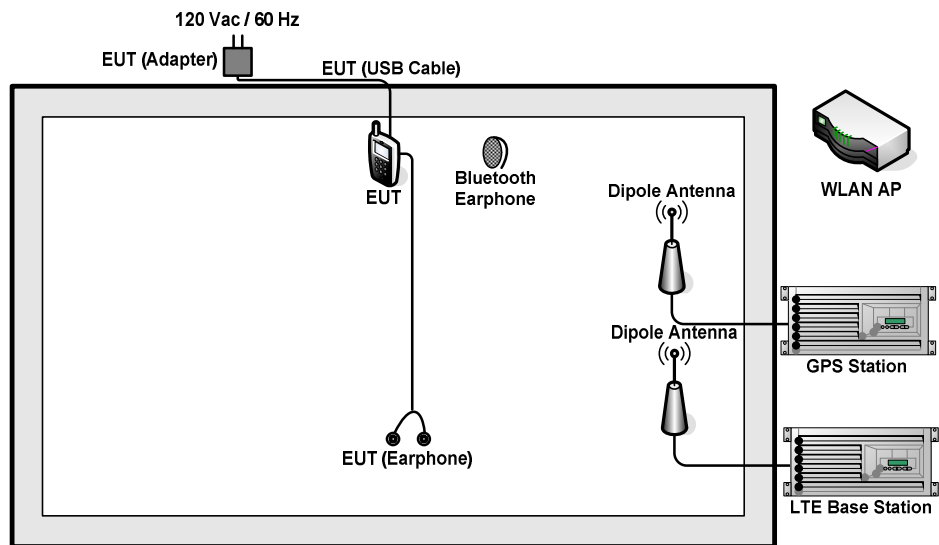
- EMI AC: AC conducted emissions
- EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz
- EMI RE < 1G: EUT radiated emissions < 1GHz

| Test Items                                                                                                                                                                                                                                                                                                                                                                                                   | EUT Configure Mode | Function Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Conducted Emission                                                                                                                                                                                                                                                                                                                                                                                        | 1/2                | Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Rear) <Fig.1><br>Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Front) <Fig.1><br>Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 <Fig.1><br>Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + GPS Rx <Fig.2><br>Mode 5: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Glonass Rx <Fig.3> |
| Radiated Emissions < 1GHz                                                                                                                                                                                                                                                                                                                                                                                    | 1/2                | Mode 1: GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Rear) <Fig.1><br>Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + Camera (Front) <Fig.1><br>Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + MPEG4 <Fig.1><br>Mode 4: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + GPS Rx <Fig.2><br>Mode 5: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Glonass Rx <Fig.3> |
| Radiated Emissions ≥ 1GHz                                                                                                                                                                                                                                                                                                                                                                                    | 1/2                | Mode 1: LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + GPS Rx <Fig.2><br>Mode 2: LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Glonass Rx <Fig.3>                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Remark:</b> <ol style="list-style-type: none"> <li>The worst case of AC is mode 1 and the USB Link mode is mode 5, the test data of these modes were reported.</li> <li>The worst case of RE &lt; 1G is mode 4 and the USB Link mode is mode 5, the test data of these modes were reported.</li> <li>Data Link with Notebook means data application transferred mode between EUT and Notebook.</li> </ol> |                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

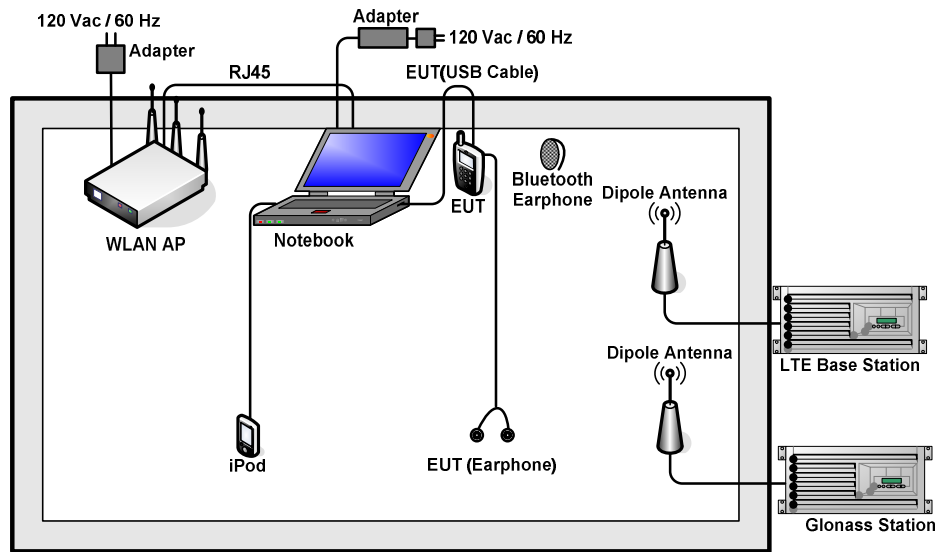
## 2.2. Connection Diagram of Test System



**<Fig.1>**



**<Fig.2>**



**<Fig.3>**

## 2.3. Support Unit used in test configuration and system

| Item | Equipment          | Trade Name | Model Name | FCC ID      | Data Cable     | Power Cord                                                 |
|------|--------------------|------------|------------|-------------|----------------|------------------------------------------------------------|
| 1.   | LTE Base Station   | Anritsu    | MT8820C    | N/A         | N/A            | Unshielded, 1.8 m                                          |
| 2.   | Glonass Station    | RACELOGIC  | RLLS03-2P  | N/A         | N/A            | Unshielded, 1.8 m                                          |
| 3.   | GPS Station        | ADIVIC     | MP9000     | N/A         | N/A            | Unshielded, 1.8 m                                          |
| 4.   | WLAN AP            | Dlink      | DIR-820L   | KA2IR820LA1 | N/A            | Unshielded, 1.8m                                           |
| 5.   | Notebook           | Lenovo     | E540       | FCC DoC     | N/A            | AC I/P:<br>Unshielded, 1.8 m<br>DC O/P:<br>Shielded, 1.8 m |
| 6.   | Bluetooth Earphone | Nokia      | BH-108     | PYAHS-107W  | N/A            | N/A                                                        |
| 7.   | iPod               | Apple      | MC525 ZP/A | N/A         | Shielded, 1.0m | N/A                                                        |



## **2.4. EUT Operation Test Setup**

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Data application is transferred between Notebook and EUT via USB cable.
2. Turn on GPS/Glonass function to make the EUT receive continuous signals from GPS/Glonass station.
3. Execute "Video player" to play MPEG4 files.
4. Turn on camera to capture images.

### 3. Test Result

#### 3.1. Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment that is 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 within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission<br>(MHz) | Conducted limit (dBuV) |           |
|--------------------------------|------------------------|-----------|
|                                | Quasi-peak             | Average   |
| 0.15-0.5                       | 66 to 56*              | 56 to 46* |
| 0.5-5                          | 56                     | 46        |
| 5-30                           | 60                     | 50        |

\*Decreases with the logarithm of the frequency.

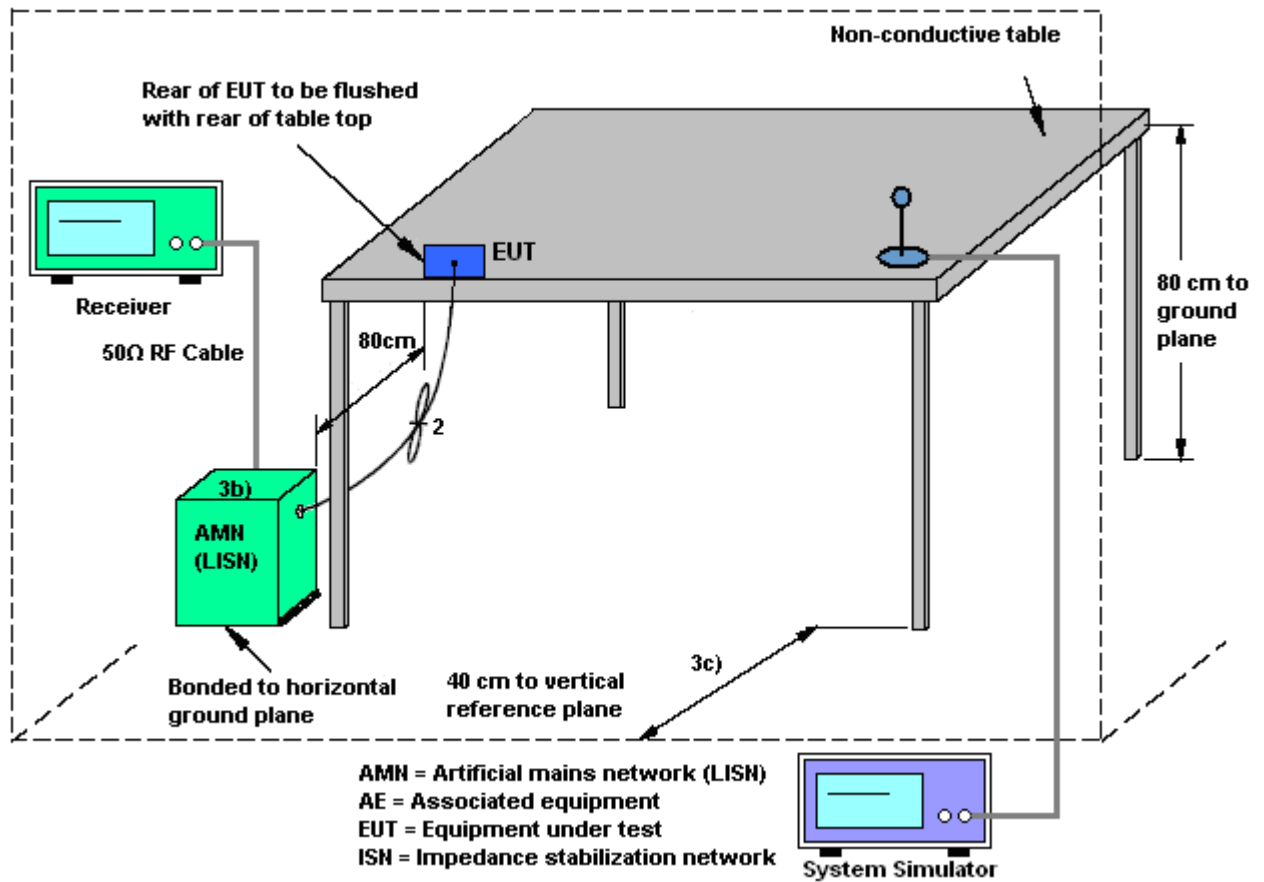
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedure

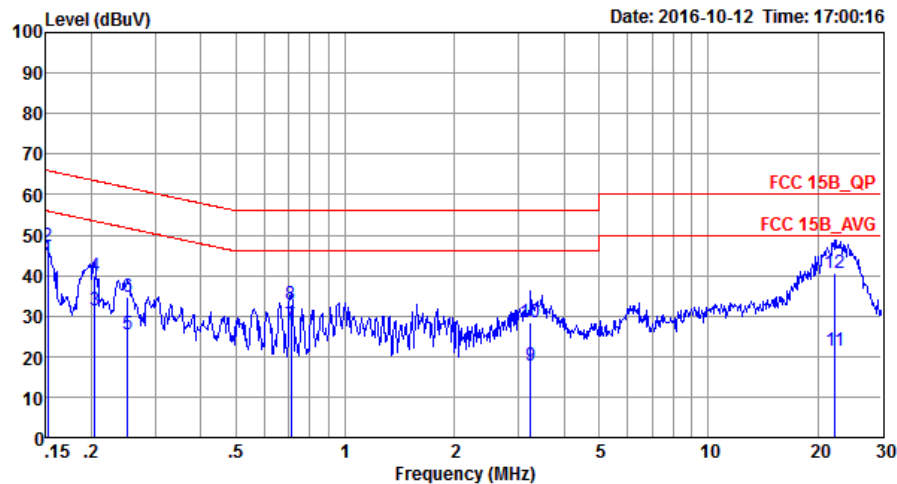
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

### 3.1.4 Test Setup



### 3.1.5 Test Result of AC Conducted Emission

|                        |                                                                                                            |                            |        |
|------------------------|------------------------------------------------------------------------------------------------------------|----------------------------|--------|
| <b>Test Mode :</b>     | Mode 1                                                                                                     | <b>Temperature :</b>       | 21~23℃ |
| <b>Test Engineer :</b> | Tao Cheng                                                                                                  | <b>Relative Humidity :</b> | 41~43% |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                                              | <b>Phase :</b>             | Line   |
| <b>Function Type :</b> | GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)<br>+ Earphone + Camera (Rear) |                            |        |

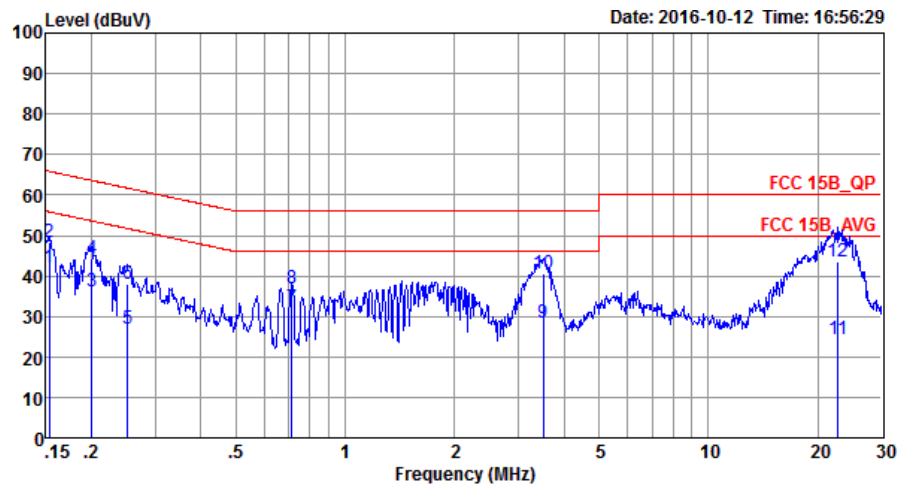


Site : CO01-SZ  
Condition: FCC 15B\_QP LISN\_20160509 LINE  
Project : (FC) 600902  
Mode : Mode 1

|     | Freq  | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|-----|-------|-------|------------|------------|------------|-------------|------------|---------|
|     | MHz   | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1 * | 0.15  | 44.14 | -11.77     | 55.91      | 33.40      | 0.14        | 10.60      | Average |
| 2   | 0.15  | 47.34 | -18.57     | 65.91      | 36.60      | 0.14        | 10.60      | QP      |
| 3   | 0.20  | 31.31 | -22.14     | 53.45      | 20.70      | 0.11        | 10.50      | Average |
| 4   | 0.20  | 39.71 | -23.74     | 63.45      | 29.10      | 0.11        | 10.50      | QP      |
| 5   | 0.25  | 25.56 | -26.13     | 51.69      | 15.00      | 0.11        | 10.45      | Average |
| 6   | 0.25  | 34.76 | -26.93     | 61.69      | 24.20      | 0.11        | 10.45      | QP      |
| 7   | 0.71  | 27.77 | -18.23     | 46.00      | 17.50      | 0.11        | 10.16      | Average |
| 8   | 0.71  | 32.87 | -23.13     | 56.00      | 22.60      | 0.11        | 10.16      | QP      |
| 9   | 3.24  | 17.63 | -28.37     | 46.00      | 7.31       | 0.12        | 10.20      | Average |
| 10  | 3.24  | 28.43 | -27.57     | 56.00      | 18.11      | 0.12        | 10.20      | QP      |
| 11  | 22.30 | 21.24 | -28.76     | 50.00      | 10.20      | 0.45        | 10.59      | Average |
| 12  | 22.30 | 40.64 | -19.36     | 60.00      | 29.60      | 0.45        | 10.59      | QP      |



|                 |                                                                                                            |                     |         |
|-----------------|------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode :     | Mode 1                                                                                                     | Temperature :       | 21~23℃  |
| Test Engineer : | Tao Cheng                                                                                                  | Relative Humidity : | 41~43%  |
| Test Voltage :  | 120Vac / 60Hz                                                                                              | Phase :             | Neutral |
| Function Type : | GSM850 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter)<br>+ Earphone + Camera (Rear) |                     |         |

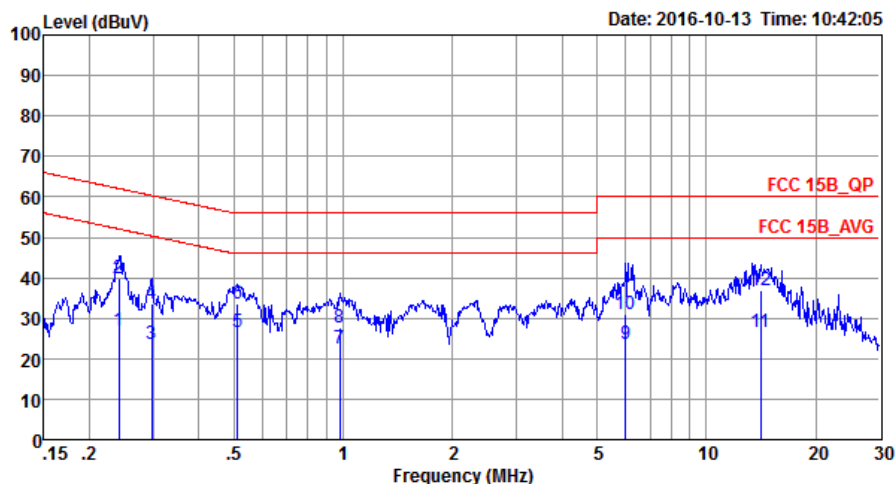


Site : C001-SZ  
Condition: FCC 15B\_QP LISN\_20160509 NEUTRAL  
Project : (FC)600902  
Mode : Mode 1

|     | Freq  | Level | Over   | Limit | Read  | LISN   | Cable |         |  |
|-----|-------|-------|--------|-------|-------|--------|-------|---------|--|
|     | MHz   | dBuV  | Limit  | Line  | Level | Factor | Loss  | Remark  |  |
|     |       |       | dB     | dBuV  | dBuV  | dB     | dB    |         |  |
| 1 * | 0.15  | 42.13 | -13.69 | 55.82 | 31.40 | 0.14   | 10.59 | Average |  |
| 2   | 0.15  | 48.33 | -17.49 | 65.82 | 37.60 | 0.14   | 10.59 | QP      |  |
| 3   | 0.20  | 36.01 | -17.57 | 53.58 | 25.40 | 0.11   | 10.50 | Average |  |
| 4   | 0.20  | 44.31 | -19.27 | 63.58 | 33.70 | 0.11   | 10.50 | QP      |  |
| 5   | 0.25  | 27.06 | -24.63 | 51.69 | 16.50 | 0.11   | 10.45 | Average |  |
| 6   | 0.25  | 38.16 | -23.53 | 61.69 | 27.60 | 0.11   | 10.45 | QP      |  |
| 7   | 0.71  | 32.07 | -13.93 | 46.00 | 21.80 | 0.11   | 10.16 | Average |  |
| 8   | 0.71  | 36.97 | -19.03 | 56.00 | 26.70 | 0.11   | 10.16 | QP      |  |
| 9   | 3.51  | 28.34 | -17.66 | 46.00 | 18.00 | 0.13   | 10.21 | Average |  |
| 10  | 3.51  | 40.44 | -15.56 | 56.00 | 30.10 | 0.13   | 10.21 | QP      |  |
| 11  | 22.78 | 24.34 | -25.66 | 50.00 | 13.30 | 0.46   | 10.58 | Average |  |
| 12  | 22.78 | 43.44 | -16.56 | 60.00 | 32.40 | 0.46   | 10.58 | QP      |  |



|                 |                                                                                                            |                     |        |
|-----------------|------------------------------------------------------------------------------------------------------------|---------------------|--------|
| Test Mode :     | Mode 5                                                                                                     | Temperature :       | 21~23℃ |
| Test Engineer : | Tao Cheng                                                                                                  | Relative Humidity : | 41~43% |
| Test Voltage :  | 120Vac / 60Hz                                                                                              | Phase :             | Line   |
| Function Type : | LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Glonass Rx |                     |        |

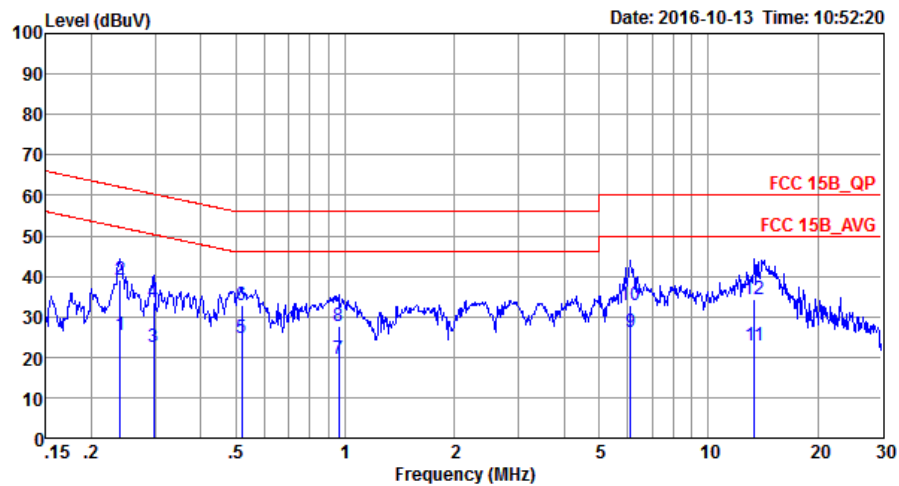


Site : C001-SZ  
Condition: FCC 15B\_QP LISN\_20160509 LINE  
Project : (FC) 600902  
Mode : Mode 5

|     | Freq  | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|-----|-------|-------|------------|------------|------------|-------------|------------|---------|
|     | MHz   | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1   | 0.24  | 26.87 | -25.17     | 52.04      | 16.30      | 0.11        | 10.46      | Average |
| 2   | 0.24  | 39.67 | -22.37     | 62.04      | 29.10      | 0.11        | 10.46      | QP      |
| 3   | 0.30  | 23.53 | -26.79     | 50.32      | 13.00      | 0.11        | 10.42      | Average |
| 4   | 0.30  | 33.63 | -26.69     | 60.32      | 23.10      | 0.11        | 10.42      | QP      |
| 5 * | 0.51  | 26.43 | -19.57     | 46.00      | 16.10      | 0.11        | 10.22      | Average |
| 6   | 0.51  | 33.63 | -22.37     | 56.00      | 23.30      | 0.11        | 10.22      | QP      |
| 7   | 0.98  | 22.37 | -23.63     | 46.00      | 12.10      | 0.11        | 10.16      | Average |
| 8   | 0.98  | 27.77 | -28.23     | 56.00      | 17.50      | 0.11        | 10.16      | QP      |
| 9   | 5.99  | 23.64 | -26.36     | 50.00      | 13.20      | 0.16        | 10.28      | Average |
| 10  | 5.99  | 31.04 | -28.96     | 60.00      | 20.60      | 0.16        | 10.28      | QP      |
| 11  | 14.14 | 26.38 | -23.62     | 50.00      | 15.70      | 0.29        | 10.39      | Average |
| 12  | 14.14 | 36.88 | -23.12     | 60.00      | 26.20      | 0.29        | 10.39      | QP      |



|                 |                                                                                                            |                     |         |
|-----------------|------------------------------------------------------------------------------------------------------------|---------------------|---------|
| Test Mode :     | Mode 5                                                                                                     | Temperature :       | 21~23℃  |
| Test Engineer : | Tao Cheng                                                                                                  | Relative Humidity : | 41~43%  |
| Test Voltage :  | 120Vac / 60Hz                                                                                              | Phase :             | Neutral |
| Function Type : | LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Glonass Rx |                     |         |



Site : C001-SZ  
Condition: FCC 15B\_QP LISN\_20160509 NEUTRAL  
Project : (FC)600902  
Mode : Mode 5

|     | Freq  | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|-----|-------|-------|------------|------------|------------|-------------|------------|---------|
|     | MHz   | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1   | 0.24  | 25.47 | -26.61     | 52.08      | 14.90      | 0.11        | 10.46      | Average |
| 2   | 0.24  | 39.17 | -22.91     | 62.08      | 28.60      | 0.11        | 10.46      | QP      |
| 3   | 0.30  | 22.63 | -27.69     | 50.32      | 12.10      | 0.11        | 10.42      | Average |
| 4   | 0.30  | 33.73 | -26.59     | 60.32      | 23.20      | 0.11        | 10.42      | QP      |
| 5 * | 0.52  | 24.62 | -21.38     | 46.00      | 14.30      | 0.11        | 10.21      | Average |
| 6   | 0.52  | 32.72 | -23.28     | 56.00      | 22.40      | 0.11        | 10.21      | QP      |
| 7   | 0.96  | 19.57 | -26.43     | 46.00      | 9.30       | 0.11        | 10.16      | Average |
| 8   | 0.96  | 27.67 | -28.33     | 56.00      | 17.40      | 0.11        | 10.16      | QP      |
| 9   | 6.12  | 26.24 | -23.76     | 50.00      | 15.80      | 0.16        | 10.28      | Average |
| 10  | 6.12  | 32.74 | -27.26     | 60.00      | 22.30      | 0.16        | 10.28      | QP      |
| 11  | 13.41 | 22.88 | -27.12     | 50.00      | 12.20      | 0.29        | 10.39      | Average |
| 12  | 13.41 | 34.48 | -25.52     | 60.00      | 23.80      | 0.29        | 10.39      | QP      |

## **3.2. Test of Radiated Emission Measurement**

### **3.2.1. Limit of Radiated Emission**

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

| <b>Frequency<br/>(MHz)</b> | <b>Field Strength<br/>(microvolts/meter)</b> | <b>Measurement Distance<br/>(meters)</b> |
|----------------------------|----------------------------------------------|------------------------------------------|
| 30 – 88                    | 100                                          | 3                                        |
| 88 – 216                   | 150                                          | 3                                        |
| 216 - 960                  | 200                                          | 3                                        |
| Above 960                  | 500                                          | 3                                        |

### **3.2.2. Measuring Instruments**

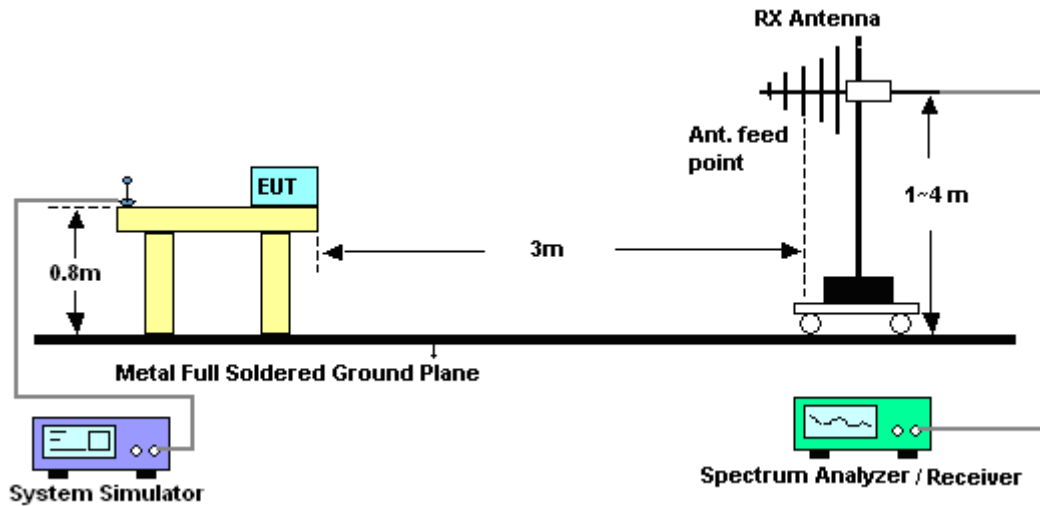
The measuring equipment is listed in the section 4 of this test report.

### **3.2.3. Test Procedures**

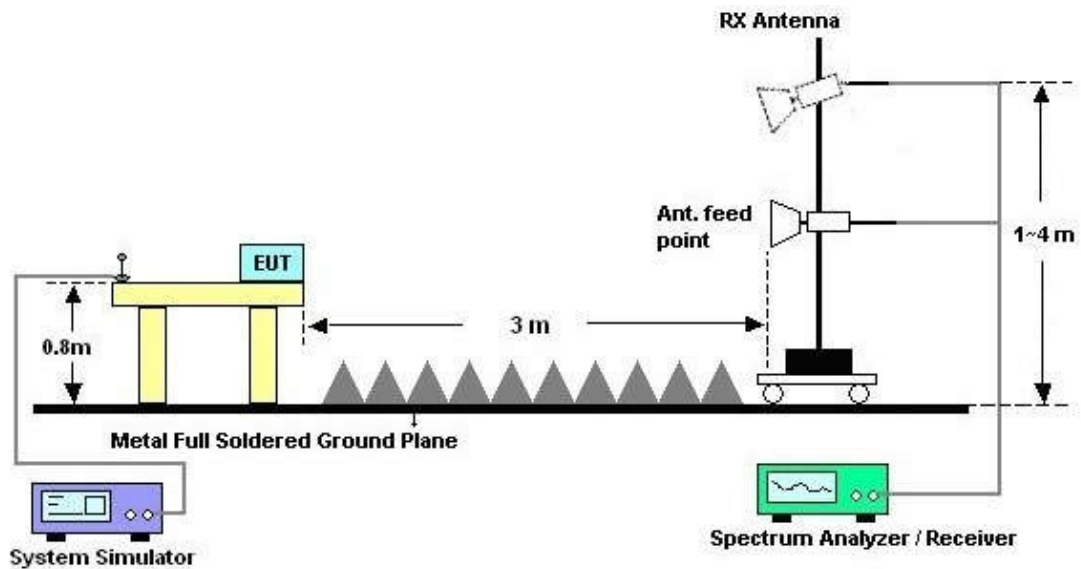
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level

### 3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



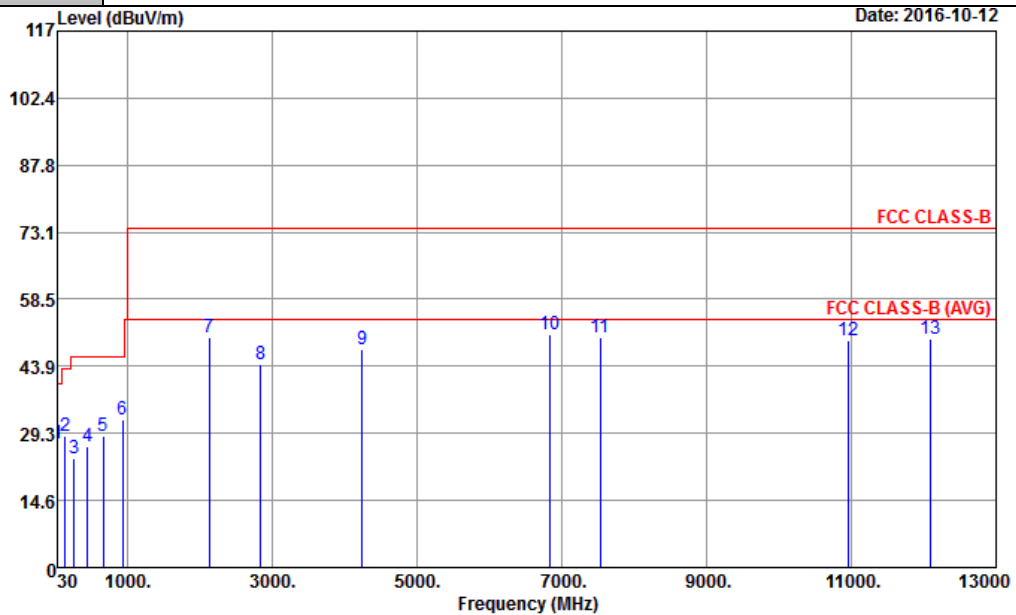
For radiated emissions above 1GHz





## 3.2.5. Test Result of Radiated Emission

|                 |                                                                                                      |                     |            |
|-----------------|------------------------------------------------------------------------------------------------------|---------------------|------------|
| Test Mode :     | Mode 4                                                                                               | Temperature :       | 23~25°C    |
| Test Engineer : | Peng Wang                                                                                            | Relative Humidity : | 48~52%     |
| Test Distance : | 3m                                                                                                   | Polarization :      | Horizontal |
| Function Type : | LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + GPS Rx |                     |            |
| Remark :        | #7 is system simulator signal which can be ignored.                                                  |                     |            |

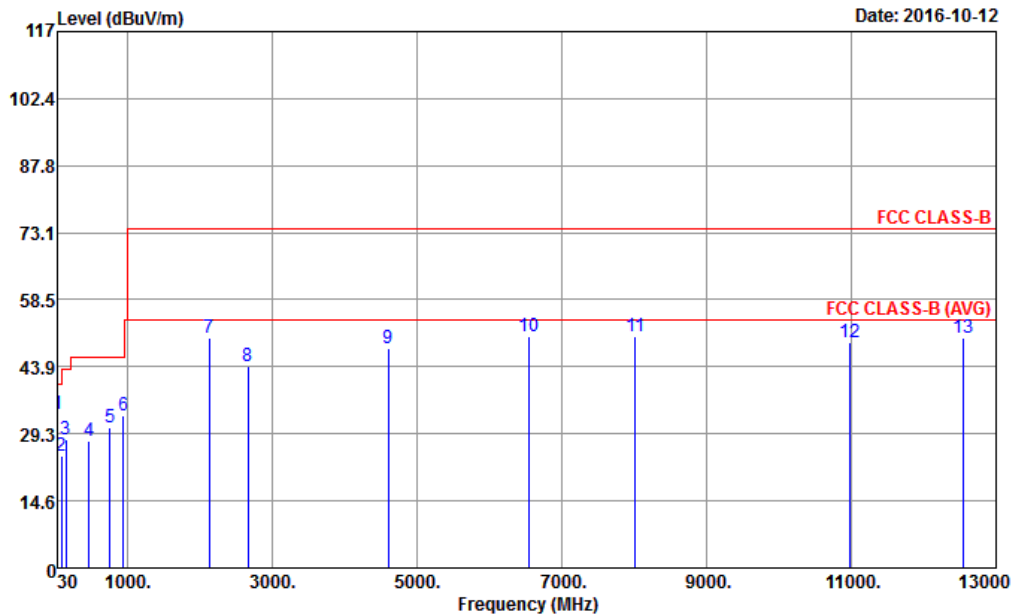


Site : 03CH02-SZ  
Condition : FCC CLASS-B 3m LF\_ANT(23188)6\_15101 HORIZONTAL  
Project : (FC) 600902  
Mode : Mode 4  
IMEI : 354147042119991/354147043119990

|    | Freq     | Level  | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|----|----------|--------|------------|------------|-------------------|----------------|------------|---------------|-------|-------|--------|
|    | MHz      | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m           | dB         | dB            | cm    | deg   |        |
| 1  | 30.00    | 26.95  | -13.05     | 40.00      | 30.83             | 26.60          | 1.22       | 31.70         | 100   | 0     | Peak   |
| 2  | 133.41   | 28.70  | -14.80     | 43.50      | 40.34             | 17.93          | 1.89       | 31.46         | ---   | ---   | Peak   |
| 3  | 262.74   | 23.88  | -22.12     | 46.00      | 35.65             | 17.01          | 2.37       | 31.15         | ---   | ---   | Peak   |
| 4  | 443.50   | 26.40  | -19.60     | 46.00      | 30.44             | 24.31          | 2.95       | 31.30         | ---   | ---   | Peak   |
| 5  | 659.80   | 28.54  | -17.46     | 46.00      | 31.08             | 25.53          | 3.43       | 31.50         | ---   | ---   | Peak   |
| 6  | 934.20   | 32.13  | -13.87     | 46.00      | 30.79             | 28.74          | 4.10       | 31.50         | ---   | ---   | Peak   |
| 7  | 2132.00  | 50.28  |            |            | 68.90             | 32.34          | 6.14       | 57.10         | ---   | ---   | Peak   |
| 8  | 2840.00  | 44.22  | -29.78     | 74.00      | 60.81             | 32.97          | 7.22       | 56.78         | ---   | ---   | Peak   |
| 9  | 4242.00  | 47.50  | -26.50     | 74.00      | 62.07             | 34.05          | 8.84       | 57.46         | ---   | ---   | Peak   |
| 10 | 6828.00  | 50.72  | -23.28     | 74.00      | 60.87             | 36.17          | 11.46      | 57.78         | 100   | 156   | Peak   |
| 11 | 7530.00  | 50.24  | -23.76     | 74.00      | 59.64             | 36.31          | 11.71      | 57.42         | ---   | ---   | Peak   |
| 12 | 10964.00 | 49.67  | -24.33     | 74.00      | 51.93             | 38.78          | 14.63      | 55.67         | ---   | ---   | Peak   |
| 13 | 12088.00 | 49.86  | -24.14     | 74.00      | 52.45             | 39.47          | 14.72      | 56.78         | ---   | ---   | Peak   |



|                 |                                                                                                      |                     |          |
|-----------------|------------------------------------------------------------------------------------------------------|---------------------|----------|
| Test Mode :     | Mode 4                                                                                               | Temperature :       | 23~25°C  |
| Test Engineer : | Peng Wang                                                                                            | Relative Humidity : | 48~52%   |
| Test Distance : | 3m                                                                                                   | Polarization :      | Vertical |
| Function Type : | LTE Band 4 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Charging from Adapter) + Earphone + GPS Rx |                     |          |
| Remark :        | #7 is system simulator signal which can be ignored.                                                  |                     |          |

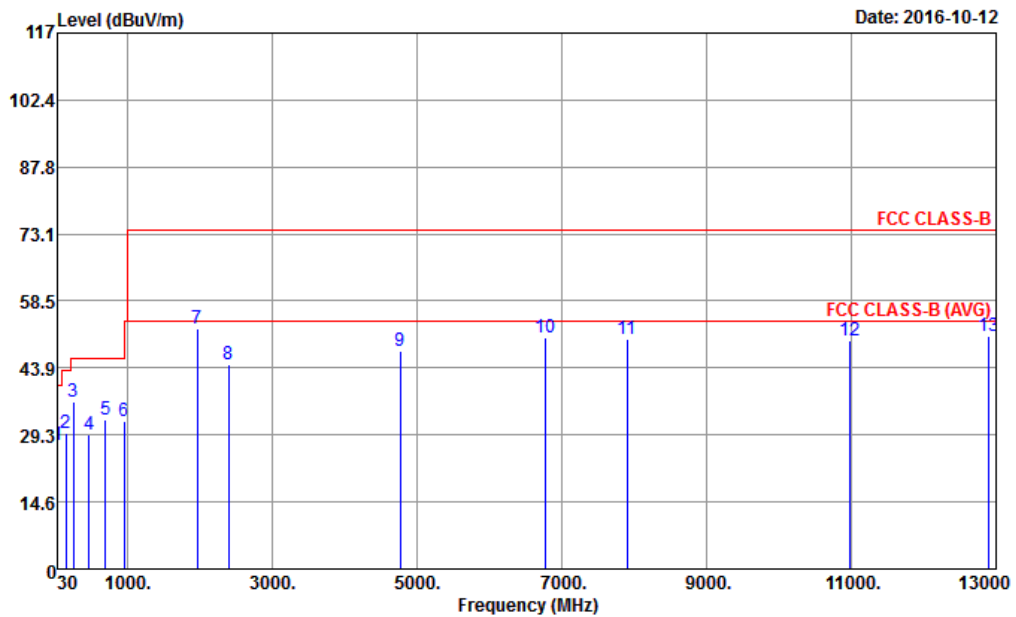


Site : 03CH02-SZ  
Condition : FCC CLASS-B 3m LF\_ANT(23188)6\_15101 VERTICAL  
Project : (FC) 600902  
Mode : Mode 4  
IMEI : 354147042119991/354147043119990

|    | Freq     | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level | Factor | Cable<br>Loss | Preamp<br>Factor | A/Pos | T/Pos | Remark |
|----|----------|--------|---------------|---------------|----------------------|--------|---------------|------------------|-------|-------|--------|
|    | MHz      | dBuV/m | dB            | dBuV/m        | dBuV                 | dB/m   | dB            | dB               | cm    | deg   |        |
| 1  | 32.97    | 33.55  | -6.45         | 40.00         | 38.52                | 25.46  | 1.22          | 31.65            | 100   | 150   | Peak   |
| 2  | 82.11    | 24.56  | -15.44        | 40.00         | 38.82                | 15.72  | 1.62          | 31.60            | ---   | ---   | Peak   |
| 3  | 145.56   | 27.99  | -15.51        | 43.50         | 39.71                | 17.70  | 1.99          | 31.41            | ---   | ---   | Peak   |
| 4  | 463.80   | 27.69  | -18.31        | 46.00         | 32.08                | 23.99  | 2.95          | 31.33            | ---   | ---   | Peak   |
| 5  | 756.40   | 30.77  | -15.23        | 46.00         | 31.57                | 27.05  | 3.65          | 31.50            | ---   | ---   | Peak   |
| 6  | 940.50   | 33.18  | -12.82        | 46.00         | 31.77                | 28.81  | 4.10          | 31.50            | ---   | ---   | Peak   |
| 7  | 2132.00  | 50.35  |               |               | 68.97                | 32.34  | 6.14          | 57.10            | ---   | ---   | Peak   |
| 8  | 2664.00  | 43.95  | -30.05        | 74.00         | 60.93                | 32.83  | 6.92          | 56.73            | ---   | ---   | Peak   |
| 9  | 4604.00  | 47.87  | -26.13        | 74.00         | 61.51                | 34.26  | 9.24          | 57.14            | ---   | ---   | Peak   |
| 10 | 6538.00  | 50.42  | -23.58        | 74.00         | 60.18                | 36.29  | 11.26         | 57.31            | 100   | 236   | Peak   |
| 11 | 8020.00  | 50.37  | -23.63        | 74.00         | 57.58                | 36.49  | 11.92         | 55.62            | ---   | ---   | Peak   |
| 12 | 10972.00 | 49.36  | -24.64        | 74.00         | 51.57                | 38.79  | 14.63         | 55.63            | ---   | ---   | Peak   |
| 13 | 12552.00 | 50.17  | -23.83        | 74.00         | 53.16                | 39.26  | 15.33         | 57.58            | ---   | ---   | Peak   |



|                 |                                                                                                            |                     |            |
|-----------------|------------------------------------------------------------------------------------------------------------|---------------------|------------|
| Test Mode :     | Mode 5                                                                                                     | Temperature :       | 23~25°C    |
| Test Engineer : | Peng Wang                                                                                                  | Relative Humidity : | 48~52%     |
| Test Distance : | 3m                                                                                                         | Polarization :      | Horizontal |
| Function Type : | LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Glonass Rx |                     |            |
| Remark :        | #7 is system simulator signal which can be ignored.                                                        |                     |            |

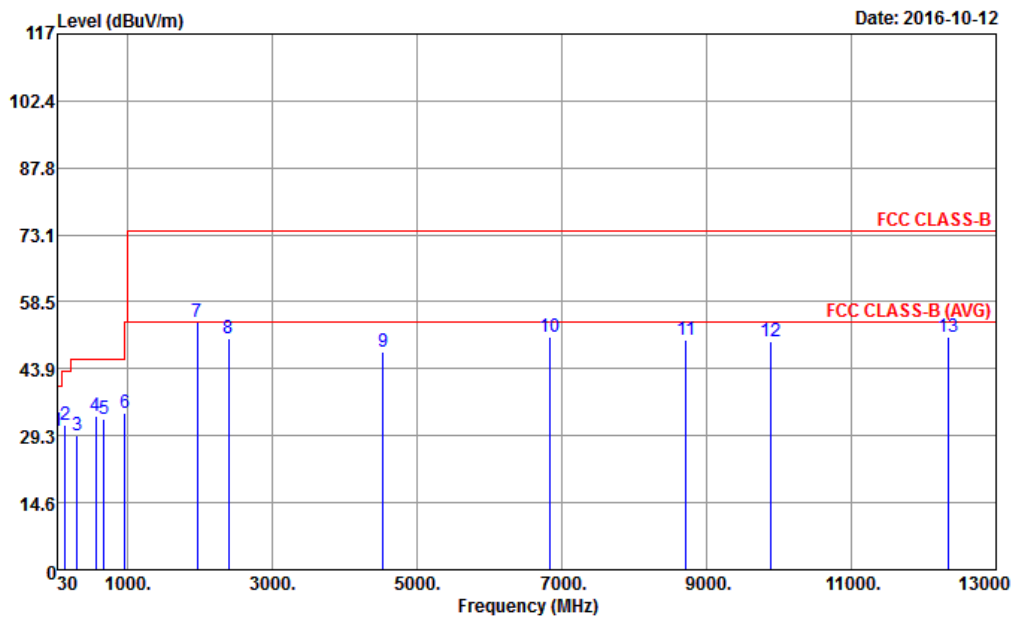


Site : 03CH02-SZ  
Condition : FCC CLASS-B 3m LF\_ANT(23188)6\_15101 HORIZONTAL  
Project : (FC) 600902  
Mode : Mode 5  
IMEI : 354147042119991/354147043119990

|    | Freq     | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | A/Pos | T/Pos | Remark |      |
|----|----------|--------|------------|------------|-------------------|--------------|-------------|-------|-------|--------|------|
|    | MHz      | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m         | dB          | dB    | cm    | deg    |      |
| 1  | 39.99    | 27.03  | -12.97     | 40.00      | 35.71             | 21.70        | 1.22        | 31.60 | ---   | ---    | Peak |
| 2  | 143.67   | 29.80  | -13.70     | 43.50      | 41.50             | 17.73        | 1.99        | 31.42 | ---   | ---    | Peak |
| 3  | 252.48   | 36.43  | -9.57      | 46.00      | 48.59             | 16.58        | 2.37        | 31.11 | 100   | 0      | Peak |
| 4  | 463.80   | 29.43  | -16.57     | 46.00      | 33.82             | 23.99        | 2.95        | 31.33 | ---   | ---    | Peak |
| 5  | 696.90   | 32.43  | -13.57     | 46.00      | 33.96             | 26.43        | 3.54        | 31.50 | ---   | ---    | Peak |
| 6  | 949.60   | 32.34  | -13.66     | 46.00      | 30.84             | 28.90        | 4.10        | 31.50 | ---   | ---    | Peak |
| 7  | 1960.00  | 52.47  |            |            | 71.90             | 31.74        | 6.12        | 57.29 | ---   | ---    | Peak |
| 8  | 2392.00  | 44.73  | -29.27     | 74.00      | 62.37             | 32.60        | 6.55        | 56.79 | ---   | ---    | Peak |
| 9  | 4768.00  | 47.57  | -26.43     | 74.00      | 60.48             | 34.37        | 9.44        | 56.72 | ---   | ---    | Peak |
| 10 | 6780.00  | 50.67  | -23.33     | 74.00      | 60.76             | 36.19        | 11.42       | 57.70 | ---   | ---    | Peak |
| 11 | 7904.00  | 50.19  | -23.81     | 74.00      | 57.90             | 36.46        | 11.86       | 56.03 | ---   | ---    | Peak |
| 12 | 10980.00 | 49.99  | -24.01     | 74.00      | 52.16             | 38.79        | 14.67       | 55.63 | ---   | ---    | Peak |
| 13 | 12900.00 | 50.79  | -23.21     | 74.00      | 53.36             | 39.06        | 15.55       | 57.18 | 100   | 200    | Peak |



|                 |                                                                                                            |                     |          |
|-----------------|------------------------------------------------------------------------------------------------------------|---------------------|----------|
| Test Mode :     | Mode 5                                                                                                     | Temperature :       | 23~25°C  |
| Test Engineer : | Peng Wang                                                                                                  | Relative Humidity : | 48~52%   |
| Test Distance : | 3m                                                                                                         | Polarization :      | Vertical |
| Function Type : | LTE Band 2 Idle + Bluetooth Idle + WLAN Idle + USB Cable (Data Link with Notebook) + Earphone + Glonass Rx |                     |          |
| Remark :        | #7 is system simulator signal which can be ignored.                                                        |                     |          |



Site : 03CH02-SZ  
Condition : FCC CLASS-B 3m LF\_ANT(23188)6\_15101 VERTICAL  
Project : (FC) 600902  
Mode : Mode 5  
IMEI : 354147042119991/354147043119990

|    | Freq     | Level  | Over<br>Limit | Limit<br>Line | ReadAntenna<br>Level | Factor | Cable<br>Loss | Preamp<br>Factor | A/Pos | T/Pos | Remark |
|----|----------|--------|---------------|---------------|----------------------|--------|---------------|------------------|-------|-------|--------|
|    | MHz      | dBuV/m | dB            | dBuV/m        | dBuV                 | dB/m   | dB            | dB               | cm    | deg   |        |
| 1  | 39.72    | 30.22  | -9.78         | 40.00         | 38.90                | 21.70  | 1.22          | 31.60            | 100   | 20    | Peak   |
| 2  | 143.13   | 31.46  | -12.04        | 43.50         | 43.16                | 17.73  | 1.99          | 31.42            | ---   | ---   | Peak   |
| 3  | 298.65   | 29.17  | -16.83        | 46.00         | 39.49                | 18.46  | 2.51          | 31.29            | ---   | ---   | Peak   |
| 4  | 564.60   | 33.53  | -12.47        | 46.00         | 37.56                | 24.22  | 3.18          | 31.43            | ---   | ---   | Peak   |
| 5  | 675.90   | 32.86  | -13.14        | 46.00         | 34.95                | 25.92  | 3.49          | 31.50            | ---   | ---   | Peak   |
| 6  | 960.10   | 34.27  | -19.73        | 54.00         | 32.66                | 29.01  | 4.10          | 31.50            | ---   | ---   | Peak   |
| 7  | 1960.00  | 53.98  |               |               | 73.41                | 31.74  | 6.12          | 57.29            | ---   | ---   | Peak   |
| 8  | 2394.00  | 50.62  | -23.38        | 74.00         | 68.26                | 32.60  | 6.55          | 56.79            | ---   | ---   | Peak   |
| 9  | 4534.00  | 47.73  | -26.27        | 74.00         | 61.66                | 34.22  | 9.16          | 57.31            | ---   | ---   | Peak   |
| 10 | 6838.00  | 50.72  | -23.28        | 74.00         | 60.86                | 36.17  | 11.47         | 57.78            | ---   | ---   | Peak   |
| 11 | 8720.00  | 50.22  | -23.78        | 74.00         | 56.18                | 36.46  | 12.48         | 54.90            | ---   | ---   | Peak   |
| 12 | 9896.00  | 49.78  | -24.22        | 74.00         | 54.15                | 37.98  | 13.86         | 56.21            | ---   | ---   | Peak   |
| 13 | 12330.00 | 50.90  | -23.10        | 74.00         | 53.74                | 39.37  | 15.08         | 57.29            | 100   | 150   | Peak   |



## 4. List of Measuring Equipment

| Instrument                              | Manufacturer    | Model No.                    | Serial No.   | Characteristics           | Calibration Date | Test Date                       | Due Date      | Remark                   |
|-----------------------------------------|-----------------|------------------------------|--------------|---------------------------|------------------|---------------------------------|---------------|--------------------------|
| EMI Receiver                            | R&S             | ESCI7                        | 100724       | 9kHz~3GHz;                | Nov. 23, 2015    | Oct. 12, 2016~<br>Oct. 13, 2016 | Nov. 22, 2016 | Conduction<br>(CO01-SZ)  |
| AC LISN                                 | EMCO            | 3816/2SH                     | 00103892     | 9kHz~30MHz                | Jan. 12, 2016    | Oct. 12, 2016~<br>Oct. 13, 2016 | Jan. 11, 2017 | Conduction<br>(CO01-SZ)  |
| AC LISN<br>(for auxiliary<br>equipment) | MessTec         | 3816/2SH                     | 00103912     | 9kHz~30MHz                | Jan. 12, 2016    | Oct. 12, 2016~<br>Oct. 13, 2016 | Jan. 11, 2017 | Conduction<br>(CO01-SZ)  |
| AC Power<br>Source                      | Chroma          | 61602                        | 616020000891 | 100Vac~250Vac             | Jul. 16, 2016    | Oct. 12, 2016~<br>Oct. 13, 2016 | Jul. 15, 2017 | Conduction<br>(CO01-SZ)  |
| Pulse Limiter                           | COM-POWER       | LIT-153<br>Transient Limiter | 53139        | 150kHz~30MHz              | Oct. 11, 2016    | Oct. 12, 2016~<br>Oct. 13, 2016 | Oct. 10, 2017 | Conduction<br>(CO01-SZ)  |
| EMI Test<br>Receiver&SA                 | KEYSIGHT        | N9038A                       | MY54450083   | 20Hz~8.4GHz               | May 07, 2016     | Oct. 12, 2016                   | May 06, 2017  | Radiation<br>(03CH02-SZ) |
| Spectrum<br>Analyzer                    | R&S             | FSV40                        | 101041       | 10kHz~40GHz;<br>Max 30dBm | Oct. 11, 2016    | Oct. 12, 2016                   | Oct. 10, 2017 | Radiation<br>(03CH02-SZ) |
| Bilog Antenna                           | TeseQ           | CBL6112D                     | 35407        | 30MHz~2GHz                | May 21, 2016     | Oct. 12, 2016                   | May 20, 2017  | Radiation<br>(03CH02-SZ) |
| Double Ridge<br>Horn Antenna            | SCHWARZBE<br>CK | BBHA 9120D                   | 9120D-1285   | 1GHz~18GHz                | Jan. 11, 2016    | Oct. 12, 2016                   | Jan. 10, 2017 | Radiation<br>(03CH02-SZ) |
| Amplifier                               | HP              | 8447F                        | 3113A04622   | 9kHz~1300MHz<br>/ 30 dB   | Jul. 16, 2016    | Oct. 12, 2016                   | Jul. 15, 2017 | Radiation<br>(03CH02-SZ) |
| HF Amplifier                            | MITEQ           | AMF-7D-001018<br>00-30-10P-R | 1707137      | 1GHz~18GHz                | Oct. 11, 2016    | Oct. 12, 2016                   | Oct. 10, 2017 | Radiation<br>(03CH02-SZ) |
| AC Power<br>Source                      | Chroma          | 61601                        | 616010002470 | N/A                       | NCR              | Oct. 12, 2016                   | NCR           | Radiation<br>(03CH02-SZ) |
| Turn Table                              | Chaintek        | T-200                        | N/A          | 0~360 degree              | NCR              | Oct. 12, 2016                   | NCR           | Radiation<br>(03CH02-SZ) |
| Antenna Mast                            | Chaintek        | MBS-400                      | N/A          | 1 m~4 m                   | NCR              | Oct. 12, 2016                   | NCR           | Radiation<br>(03CH02-SZ) |

NCR: No Calibration Required

## 5. Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 2.5dB |
|-------------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.0dB |
|-------------------------------------------------------------------------|-------|

### Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

|                                                                         |       |
|-------------------------------------------------------------------------|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ ) | 5.1dB |
|-------------------------------------------------------------------------|-------|