



# FCC RF Test Report

APPLICANT : Motorola Mobility LLC  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
MODEL NAME : 9370, 9842  
FCC ID : IHDT56VE2  
STANDARD : FCC Part 15 Subpart C §15.225  
CLASSIFICATION : (DXX) Low Power Communication Device Transmitter

The product was received on Oct. 14, 2016 and testing was completed on Nov. 04, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

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Prepared by: James Huang / Manager



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Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (KUNSHAN) INC.**

**No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China**



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## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FR6O1212-02D | Rev. 01 | Initial issue of report | Nov. 08, 2016 |
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## SUMMARY OF THE TEST RESULT

| Applied Standard: 47 CFR FCC Part 15 Subpart C / IC RSS-210 issue 9 |                     |             |                                         |          |                                      |
|---------------------------------------------------------------------|---------------------|-------------|-----------------------------------------|----------|--------------------------------------|
| Part                                                                | FCC Rule            | IC Rule     | Description of Test                     | Result   | Under Limit                          |
| 3.1                                                                 | 15.207              | RSS-GEN 8.8 | AC Power Line Conducted Emissions       | Complies | 5.40 dB at 2.978MHz                  |
| 3.2                                                                 | 15.215(c)           | -           | 20dB Spectrum Bandwidth                 | Complies | -                                    |
|                                                                     | -                   | RSS-GEN 6.6 | 99% OBW Spectrum Bandwidth              | Complies | -                                    |
| 3.3                                                                 | 15.225(e)           | B.6         | Frequency Stability                     | Complies | -                                    |
| 3.4                                                                 | 15.225(a)(b)(c)     | B.6         | Field Strength of Fundamental Emissions | Complies | 56.69 dB at 13.560 MHz               |
| 3.5                                                                 | 15.225(d)<br>15.209 | B.6         | Radiated Emissions                      | Complies | 13.65 dB at 1.547 MHz for Quasi-Peak |
| 3.6                                                                 | 15.203              | -           | Antenna Requirements                    | Complies | -                                    |

| Test Items                         | Uncertainty | Remark                   |
|------------------------------------|-------------|--------------------------|
| AC Power Line Conducted Emissions  | ±2.3dB      | Confidence levels of 95% |
| Radiated Emissions (30MHz~1000MHz) | ±5.1dB      | Confidence levels of 95% |



## 1. GENERAL INFORMATION

### 1.1 Applicant

**Motorola Mobility LLC**

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

### 1.2 Manufacturer

**Motorola Mobility LLC**

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

### 1.3 Product Feature of Equipment Under Test

| Product Feature                 |                                                                                                                                                                                                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Mobile Cellular Phone                                                                                                                                                                                              |
| Brand Name                      | Motorola                                                                                                                                                                                                           |
| Model Name                      | 9370, 9842                                                                                                                                                                                                         |
| FCC ID                          | IHDT56VE2                                                                                                                                                                                                          |
| EUT supports Radios application | GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/<br>HSPA+(16QAM uplink is not supported)/LTE/NFC/<br>WLAN2.4GHz 802.11b/g/n HT20<br>WLAN5GHz 802.11a/n HT20/HT40/<br>Bluetooth v3.0+EDR/Bluetooth v4.0 LE/<br>Bluetooth v4.2 LE |
| IMEI Code                       | Conducted:<br>Sample 1: 351857080023011/351857080023029<br>Conduction:<br>Sample 1: 351857080023011/351857080023029<br>Radiation:<br>Sample 1: 351857080022930/351857080022948                                     |
| HW Version                      | DVT2                                                                                                                                                                                                               |
| SW Version                      | NPN25.89_1063                                                                                                                                                                                                      |
| EUT Stage                       | Identical Prototype                                                                                                                                                                                                |

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT sample 1 and sample 2, the differences between two samples are only for SIM slot, sample 1 with dual SIM slot, sample 2 with single SIM slot. According to the difference, we only choose the sample 1 to perform full test.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |                    |
|-----------------------------------------|--------------------|
| <b>Tx/Rx Frequency Range</b>            | 13.553 ~ 13.567MHz |
| <b>Channel Number</b>                   | 1                  |
| <b>20dBW</b>                            | 2.49 KHz           |
| <b>99%OBW</b>                           | 2.10 KHz           |
| <b>Antenna Type</b>                     | Loop Antenna       |
| <b>Type of Modulation</b>               | ASK                |

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

## 1.5 Specification of Accessory

| Specification of Accessory |                         |                                                                           |                   |                                                                |
|----------------------------|-------------------------|---------------------------------------------------------------------------|-------------------|----------------------------------------------------------------|
| <b>AC Adapter</b>          | <b>Brand Name</b>       | Motorola(Salom)                                                           | <b>Model Name</b> | SSW-2680US/SSW-2680UK/<br>SSW-2680EU/SSW-2680MX/<br>SSW-2680AR |
|                            | <b>Power Rating</b>     | I/P: 100-240 Vac, 500mA, O/P: 5 Vdc,1600mA or 9Vdc,1600mA or 12Vdc,1200mA |                   |                                                                |
| <b>Battery 1</b>           | <b>Brand Name</b>       | motorola(Amperex)                                                         | <b>Model Name</b> | HG40                                                           |
|                            | <b>Power Rating</b>     | 3.8Vdc,2810/3000mAh<br>(Min/Typ)                                          | <b>Type</b>       | Li-ion                                                         |
| <b>Battery 2</b>           | <b>Brand Name</b>       | motorola(SUNWODA)                                                         | <b>Model Name</b> | HG40                                                           |
|                            | <b>Power Rating</b>     | 3.8Vdc,2810/3000mAh<br>(Min/Typ)                                          | <b>Type</b>       | Li-ion                                                         |
| <b>USB Cable</b>           | <b>Brand Name</b>       | Motorola                                                                  | <b>Model Name</b> | SKN6461A                                                       |
|                            | <b>Signal Line Type</b> | 1.0 meter, non-shielded cable, without ferrite core                       |                   |                                                                |
| <b>Earphone</b>            | <b>Brand Name</b>       | Motorola(Jiangxi Lianchuang)                                              | <b>Model Name</b> | MEMD1532B080008                                                |
|                            | <b>Signal Line Type</b> | 1.2 meter, non-shielded cable, without ferrite core                       |                   |                                                                |



## 1.6 Modification of EUT

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

## 1.7 Testing Location

|                           |                                                                                                                       |           |           |                                |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------|-----------|--------------------------------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL (KUNSHAN) INC.                                                                                  |           |           |                                |
| <b>Test Site Location</b> | No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China<br>TEL: +86-0512-5790-0158<br>FAX: +86-0512-5790-0958 |           |           |                                |
| <b>Test Site No.</b>      | <b>Sporton Site No.</b>                                                                                               |           |           | <b>FCC/IC Registration No.</b> |
|                           | TH01-KS                                                                                                               | CO01-KS   | 03CH02-KS | 418269/4086E                   |
| <b>Test Engineer</b>      | Ivan Zhang                                                                                                            | Morris Li | Mker Qi   |                                |
| <b>Temperature</b>        | 24~25°C                                                                                                               | 22~24°C   | 22~23°C   |                                |
| <b>Relative Humidity</b>  | 54~55%                                                                                                                | 46~48%    | 41~42%    |                                |

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

## 1.8 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.225
- ♦ ANSI C63.10-2013
- ♦ IC RSS-210 Issue 9
- ♦ IC RSS-Gen Issue 4

## 2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

### 2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations for searching the worst cases.

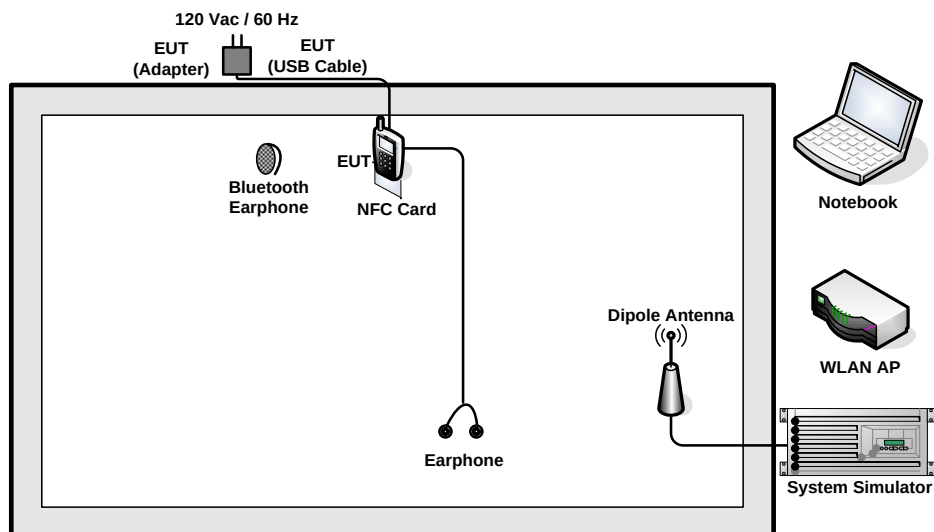
The following table is a list of the test modes shown in this test report.

| Test Items                        |                                         |
|-----------------------------------|-----------------------------------------|
| AC Power Line Conducted Emissions | Field Strength of Fundamental Emissions |
| 20dB Spectrum Bandwidth           | Frequency Stability                     |
| Radiated Emissions 9kHz~30MHz     | Radiated Emissions 30MHz~1GHz           |

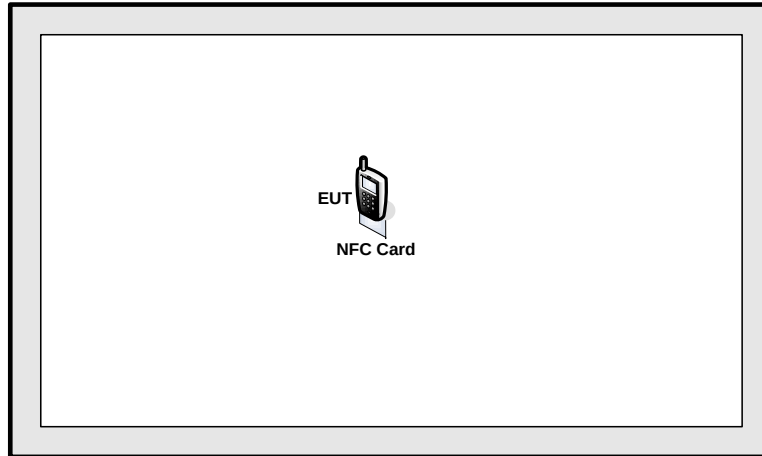
The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type F) was recorded in this report. Pre-scanned tests, X, Y, Z in three orthogonal panels to determine the final configuration (Y plane as worst plane) from all possible combinations.

### 2.2 Connection Diagram of Test System

#### <AC Conducted Emissions>



< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



## 2.3 Table for Supporting Units

| Support Unit       | Manufacturer | Model   | FCC ID         |
|--------------------|--------------|---------|----------------|
| System Simulator   | Anritsu      | MT8820C | N/A            |
| WLAN AP            | LINKSYS      | WRT600N | Q87-WRT600NV11 |
| Notebook           | Lenovo       | G480    | PRC4           |
| Bluetooth Earphone | Lenovo       | LBH308  | N/A            |

## 2.4 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.

### 3. TEST RESULTS

#### 3.1 AC Power Line Conducted Emissions Measurement

##### 3.1.1 Limit 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 (dB $\mu$ V) |           |
|--------------------------------|------------------------------|-----------|
|                                | 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.

For terminal test result, the testing follows FCC KDB 174176.

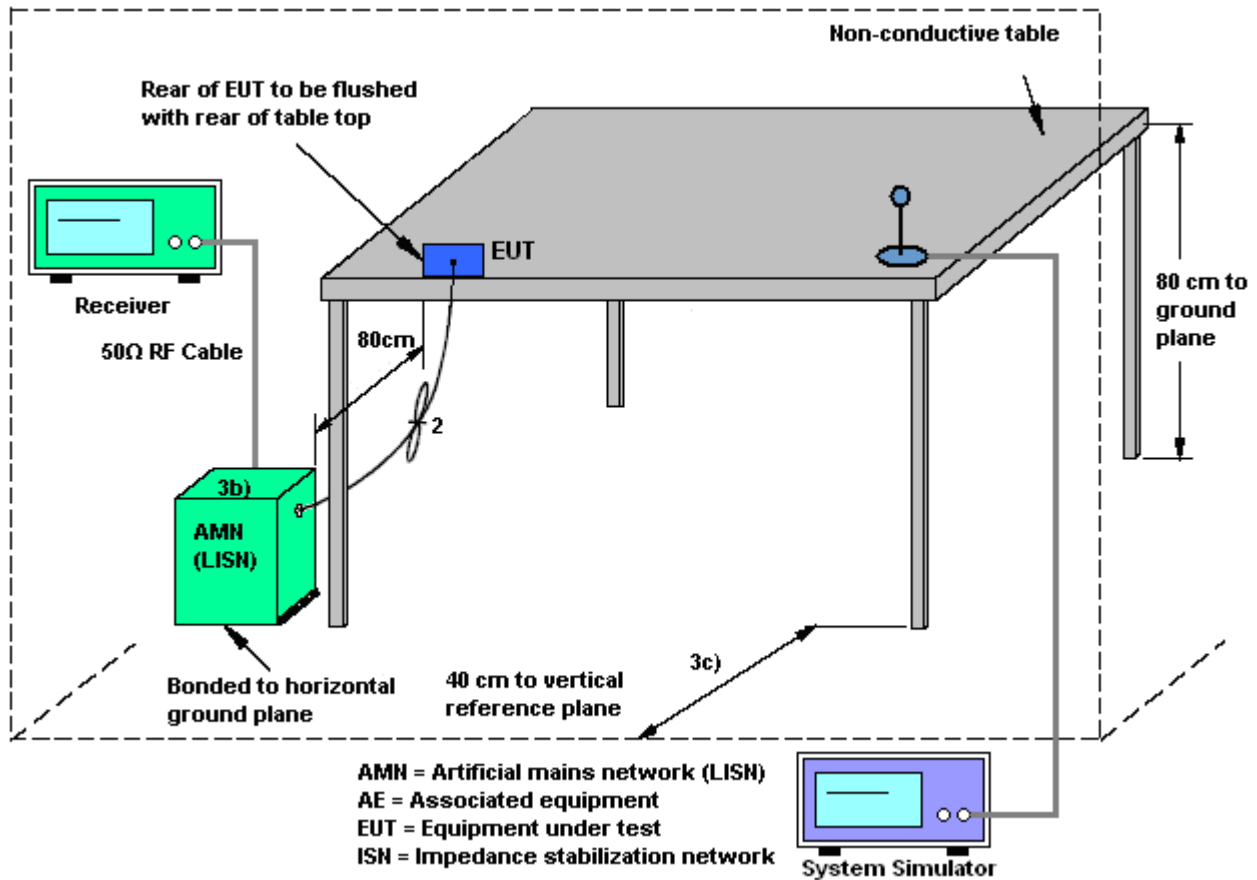
##### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it 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

Please refer to Appendix A.

## 3.2 20dB and 99% OBW Spectrum Bandwidth Measurement

### 3.2.1 Limit

Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

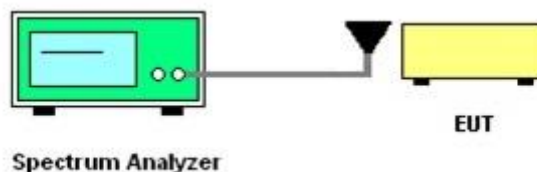
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Conducted Test Items

Please refer to Appendix B.

### 3.3 Frequency Stability Measurement

#### 3.3.1 Limit

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

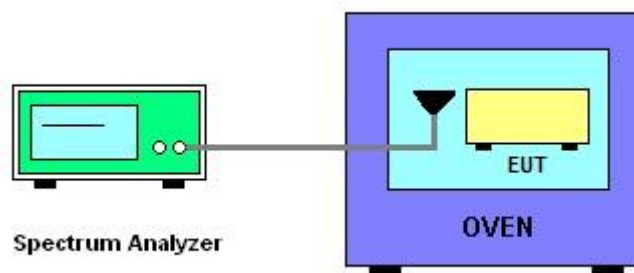
#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT.
2. EUT have transmitted signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire emissions bandwidth.
4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
5. The  $f_c$  is declaring of channel frequency. Then the frequency error formula is  $(f_c - f)/f_c \times 10^6$  ppm and the limit is less than  $\pm 100$ ppm.
6. Extreme temperature rule is -20°C~50°C.

#### 3.3.4 Test Setup



#### 3.3.5 Test Result of Conducted Test Items

Please refer to Appendix B.

### 3.4 Field Strength of Fundamental Emissions and Mask Measurement

#### 3.4.1 Limit

| Rules and specifications | FCC CFR 47 Part 15 section 15.225                                 |                                         |                                         |                                        |
|--------------------------|-------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|----------------------------------------|
|                          | IC RSS-210 B.6                                                    |                                         |                                         |                                        |
| Description              | Compliance with the spectrum mask is tested with RBW set to 9kHz. |                                         |                                         |                                        |
| Freq. of Emission (MHz)  | Field Strength<br>( $\mu$ V/m) at 30m                             | Field Strength<br>(dB $\mu$ V/m) at 30m | Field Strength<br>(dB $\mu$ V/m) at 10m | Field Strength<br>(dB $\mu$ V/m) at 3m |
| 1.705~13.110             | 30                                                                | 29.5                                    | 48.58                                   | 69.5                                   |
| 13.110~13.410            | 106                                                               | 40.5                                    | 59.58                                   | 80.5                                   |
| 13.410~13.553            | 334                                                               | 50.5                                    | 69.58                                   | 90.5                                   |
| 13.553~13.567            | 15848                                                             | 84.0                                    | 103.08                                  | 124.0                                  |
| 13.567~13.710            | 334                                                               | 50.5                                    | 69.58                                   | 90.5                                   |
| 13.710~14.010            | 106                                                               | 40.5                                    | 59.58                                   | 80.5                                   |
| 14.010~30.000            | 30                                                                | 29.5                                    | 48.58                                   | 69.5                                   |

#### 3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.4.3 Test Procedures

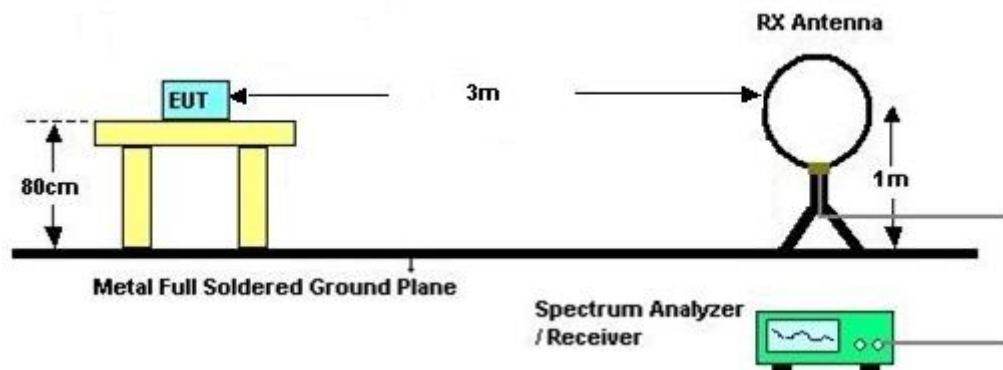
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure QP reading.

5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
6. Compliance with the spectrum mask is tested with RBW set to 9kHz.

Note: Emission level (dBμV/m) = 20 log Emission level (μV/m).

### 3.4.4 Test Setup

For radiated emissions below 30MHz



### 3.4.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix C.

## 3.5 Radiated Emissions Measurement

### 3.5.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

| Frequencies<br>(MHz) | Field Strength<br>( $\mu$ V/m) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(kHz)                    | 300                              |
| 0.490~1.705          | 24000/F(kHz)                   | 30                               |
| 1.705~30.0           | 30                             | 30                               |
| 30~88                | 100                            | 3                                |
| 88~216               | 150                            | 3                                |
| 216~960              | 200                            | 3                                |
| Above 960            | 500                            | 3                                |

### 3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.5.3 Measuring Instrument Setting

The following table is the setting of receiver.

| Receiver Parameter             | Setting             |
|--------------------------------|---------------------|
| Attenuation                    | Auto                |
| Frequency Range: 9kHz~150kHz   | RBW 200Hz for QP    |
| Frequency Range: 150kHz~30MHz  | RBW 9kHz for QP     |
| Frequency Range: 30MHz~1000MHz | RBW 120kHz for Peak |

**Note:** The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

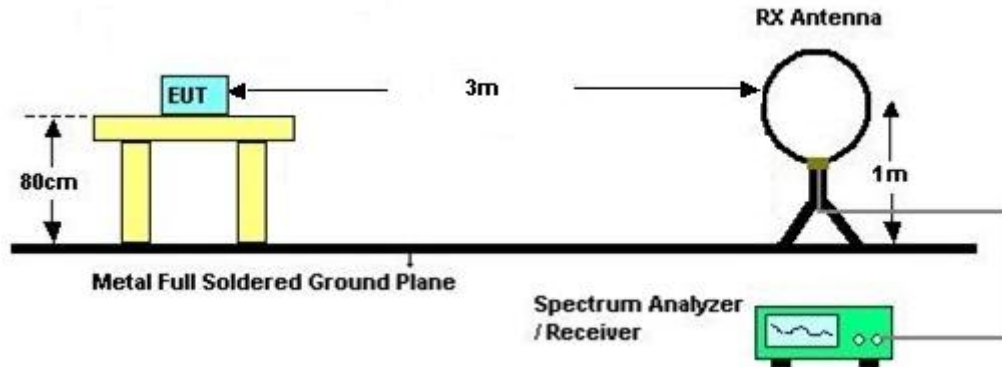


### 3.5.4 Test Procedures

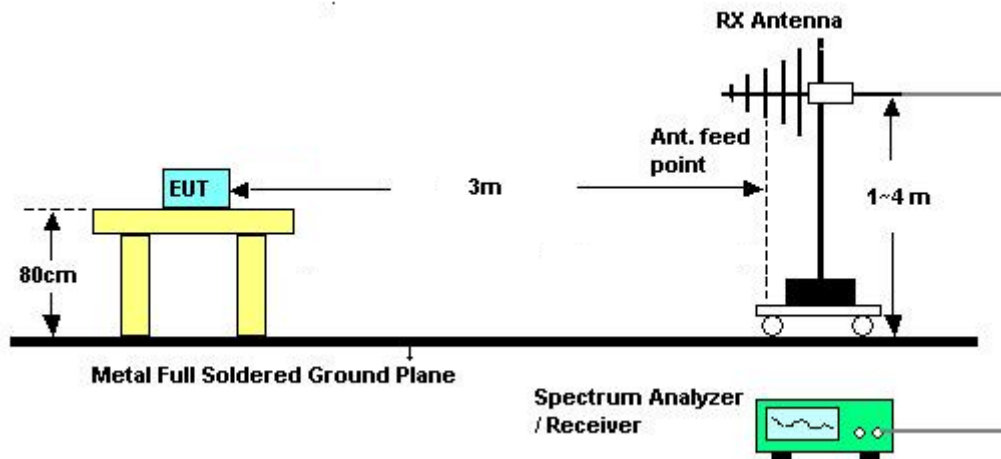
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
1. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
2. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
3. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
4. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
6. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

### 3.5.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



### 3.5.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix C.



## **3.6 Antenna Requirements**

### **3.6.1 Standard Applicable**

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

### **3.6.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



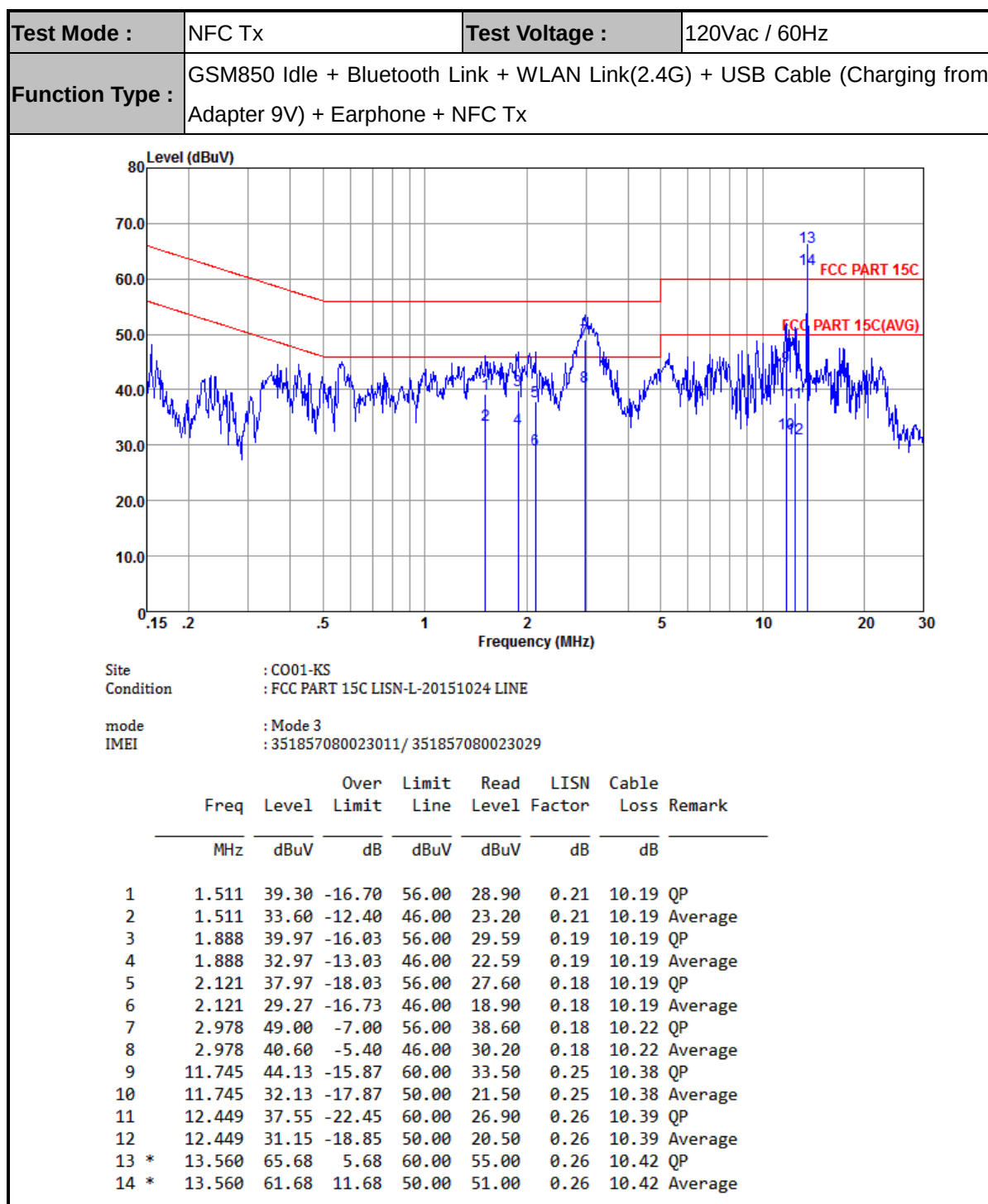
#### 4. LIST OF MEASURING EQUIPMENT

| Instrument                           | Manufacturer | Model No. | Serial No.       | Characteristics            | Calibration Date | Test Date     | Due Date      | Remark                |
|--------------------------------------|--------------|-----------|------------------|----------------------------|------------------|---------------|---------------|-----------------------|
| Spectrum Analyzer                    | R&S          | FSV40     | 101040           | 10Hz~40GHz                 | Aug. 09, 2016    | Nov. 04, 2016 | Aug. 08, 2017 | Conducted (TH01-KS)   |
| Thermal Chamber                      | Ten Billion  | TTC-B3S   | TBN-960502       | -40~+150°C                 | Oct. 13, 2016    | Nov. 04, 2016 | Oct. 12, 2017 | Conducted (TH01-KS)   |
| EMI Test Receiver                    | R&S          | ESR7      | 101403           | 9kHz~7GHz;<br>Max 30dBm    | Aug. 09, 2016    | Nov. 03, 2016 | Aug. 08, 2017 | Radiation (03CH02-KS) |
| Loop Antenna                         | R&S          | HFH2-Z2   | 100321           | 9kHz~30MHz                 | Nov. 07, 2015    | Nov. 03, 2016 | Nov. 06, 2016 | Radiation (03CH02-KS) |
| Bilog Antenna                        | TeseQ        | CBL6112D  | 37879            | 30MHz~2GHz                 | Aug. 20, 2016    | Nov. 03, 2016 | Aug. 19, 2017 | Radiation (03CH02-KS) |
| Amplifier                            | com-power    | PA-103A   | 161069           | 1kHz~1000MHz<br>/ 32 dB    | Apr. 22, 2016    | Nov. 03, 2016 | Apr. 21, 2017 | Radiation (03CH02-KS) |
| AC Power Source                      | Chroma       | 61601     | 6160100024<br>73 | N/A                        | NCR              | Nov. 03, 2016 | NCR           | Radiation (03CH02-KS) |
| Turn Table                           | MF           | MF7802    | N/A              | 0~360 degree               | NCR              | Nov. 03, 2016 | NCR           | Radiation (03CH02-KS) |
| Antenna Mast                         | MF           | MF7802    | N/A              | 1 m~4 m                    | NCR              | Nov. 03, 2016 | NCR           | Radiation (03CH02-KS) |
| EMI Receiver                         | R&S          | ESCI7     | 100768           | 9kHz~7GHz;                 | Apr. 29, 2016    | Nov. 04, 2016 | Apr. 28, 2017 | Conduction (CO01-KS)  |
| AC LISN                              | MessTec      | AN3016    | 060103           | 9kHz~30MHz                 | Oct. 13, 2016    | Nov. 04, 2016 | Oct. 12, 2017 | Conduction (CO01-KS)  |
| AC LISN<br>(for auxiliary equipment) | MessTec      | AN3016    | 060105           | 9kHz~30MHz                 | Oct. 13, 2016    | Nov. 04, 2016 | Oct. 12, 2017 | Conduction (CO01-KS)  |
| AC Power Source                      | Chroma       | 61602     | ABP000000<br>811 | AC 0V~300V,<br>45Hz~1000Hz | Oct. 13, 2016    | Nov. 04, 2016 | Oct. 12, 2017 | Conduction (CO01-KS)  |

NCR: No Calibration Required



## Appendix A. Test Results of Conducted Emission Test

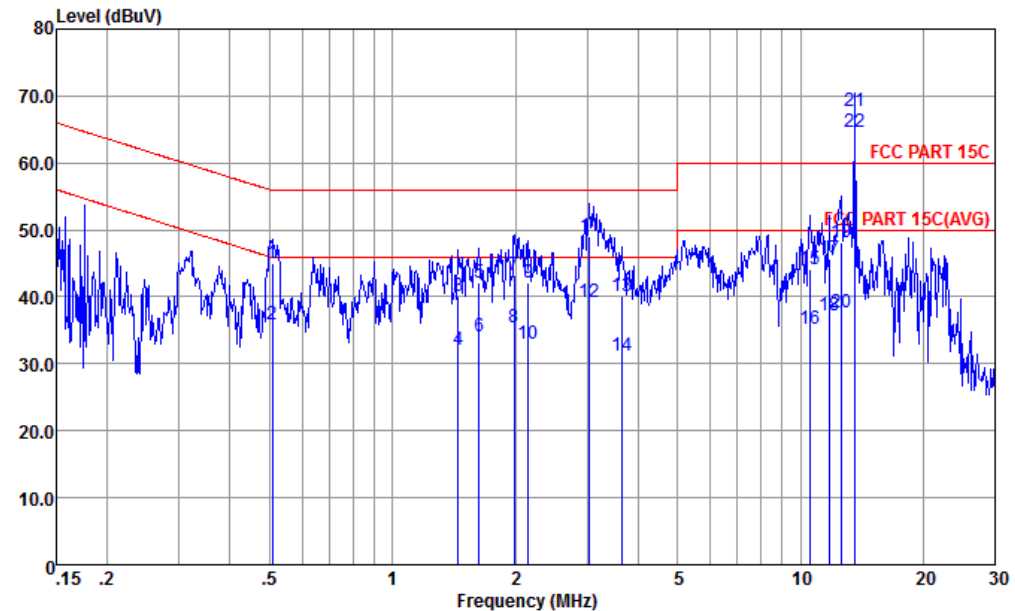


(1) With antenna

Remark: 13.560MHz is the NFC RF fundamental signal.



|                 |                                                                                                           |                |               |
|-----------------|-----------------------------------------------------------------------------------------------------------|----------------|---------------|
| Test Mode :     | NFC Tx                                                                                                    | Test Voltage : | 120Vac / 60Hz |
| Function Type : | GSM850 Idle + Bluetooth Link + WLAN Link(2.4G) + USB Cable (Charging from Adapter 9V) + Earphone + NFC Tx |                |               |

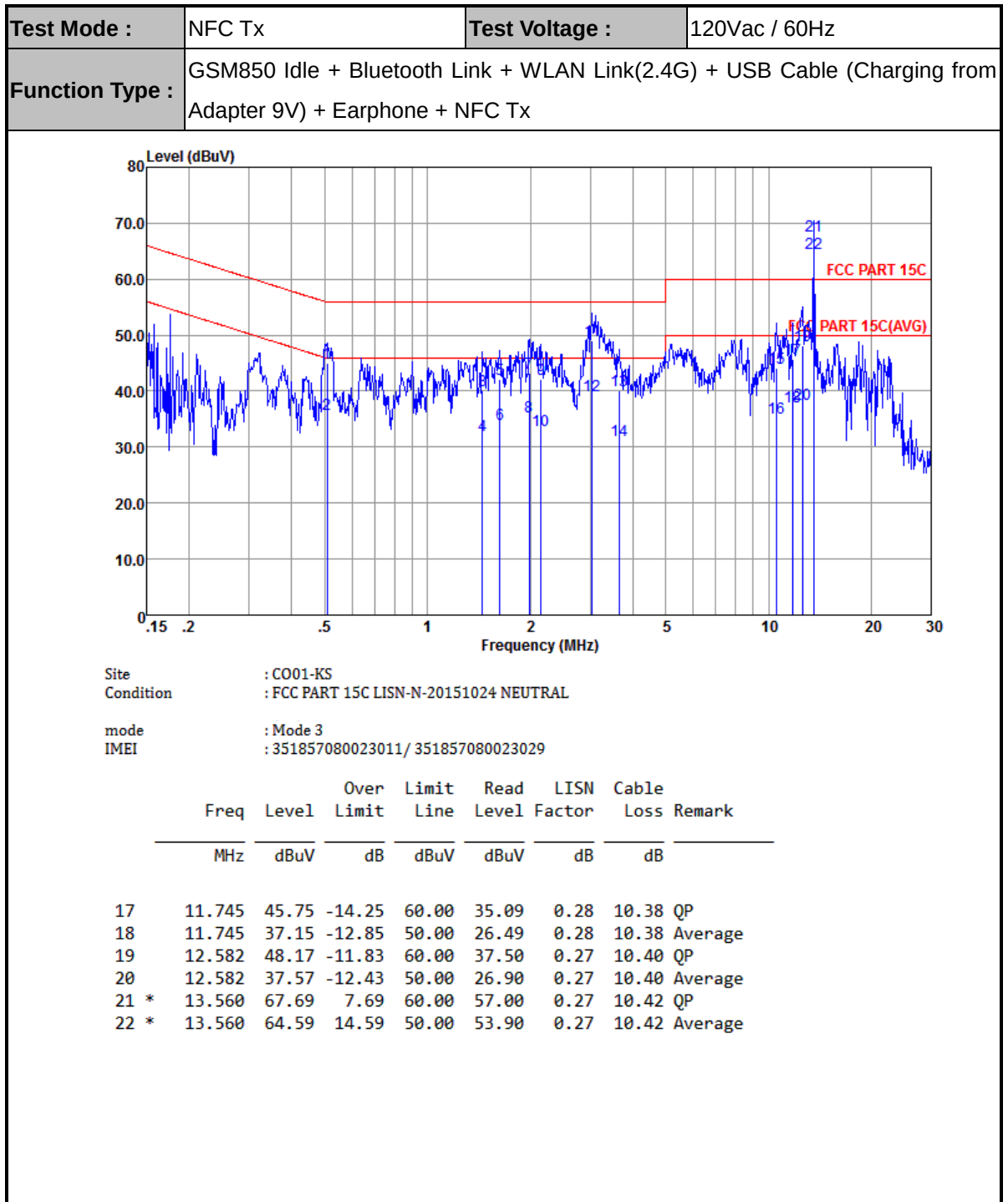


Site : CO01-KS  
Condition : FCC PART 15C LISN-N-20151024 NEUTRAL  
mode : Mode 3  
IMEI : 351857080023011/ 351857080023029

|    | Freq   | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|----|--------|-------|------------|------------|------------|-------------|------------|---------|
|    | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1  | 0.507  | 45.11 | -10.89     | 56.00      | 34.60      | 0.32        | 10.19      | QP      |
| 2  | 0.507  | 35.91 | -10.09     | 46.00      | 25.40      | 0.32        | 10.19      | Average |
| 3  | 1.449  | 40.06 | -15.94     | 56.00      | 29.49      | 0.38        | 10.19      | QP      |
| 4  | 1.449  | 32.16 | -13.84     | 46.00      | 21.59      | 0.38        | 10.19      | Average |
| 5  | 1.628  | 42.06 | -13.94     | 56.00      | 31.49      | 0.38        | 10.19      | QP      |
| 6  | 1.628  | 34.06 | -11.94     | 46.00      | 23.49      | 0.38        | 10.19      | Average |
| 7  | 1.991  | 43.17 | -12.83     | 56.00      | 32.60      | 0.38        | 10.19      | QP      |
| 8  | 1.991  | 35.47 | -10.53     | 46.00      | 24.90      | 0.38        | 10.19      | Average |
| 9  | 2.155  | 42.07 | -13.93     | 56.00      | 31.50      | 0.38        | 10.19      | QP      |
| 10 | 2.155  | 33.07 | -12.93     | 46.00      | 22.50      | 0.38        | 10.19      | Average |
| 11 | 3.041  | 49.09 | -6.91      | 56.00      | 38.50      | 0.37        | 10.22      | QP      |
| 12 | 3.041  | 39.19 | -6.81      | 46.00      | 28.60      | 0.37        | 10.22      | Average |
| 13 | 3.642  | 40.20 | -15.80     | 56.00      | 29.60      | 0.37        | 10.23      | QP      |
| 14 | 3.642  | 31.10 | -14.90     | 46.00      | 20.50      | 0.37        | 10.23      | Average |
| 15 | 10.564 | 44.13 | -15.87     | 60.00      | 33.50      | 0.28        | 10.35      | QP      |
| 16 | 10.564 | 35.13 | -14.87     | 50.00      | 24.50      | 0.28        | 10.35      | Average |

(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.

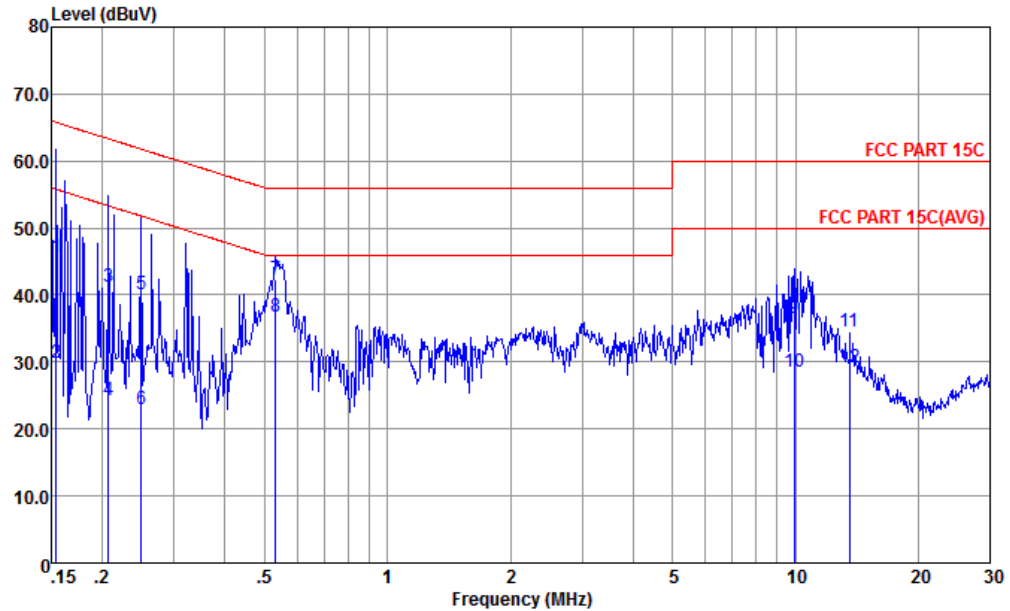


(1) with antenna

Remark: 13.560MHz is the NFC RF fundamental signal.



|                 |                                                                                                           |                |               |
|-----------------|-----------------------------------------------------------------------------------------------------------|----------------|---------------|
| Test Mode :     | NFC Tx                                                                                                    | Test Voltage : | 120Vac / 60Hz |
| Function Type : | GSM850 Idle + Bluetooth Link + WLAN Link(2.4G) + USB Cable (Charging from Adapter 9V) + Earphone + NFC Tx |                |               |

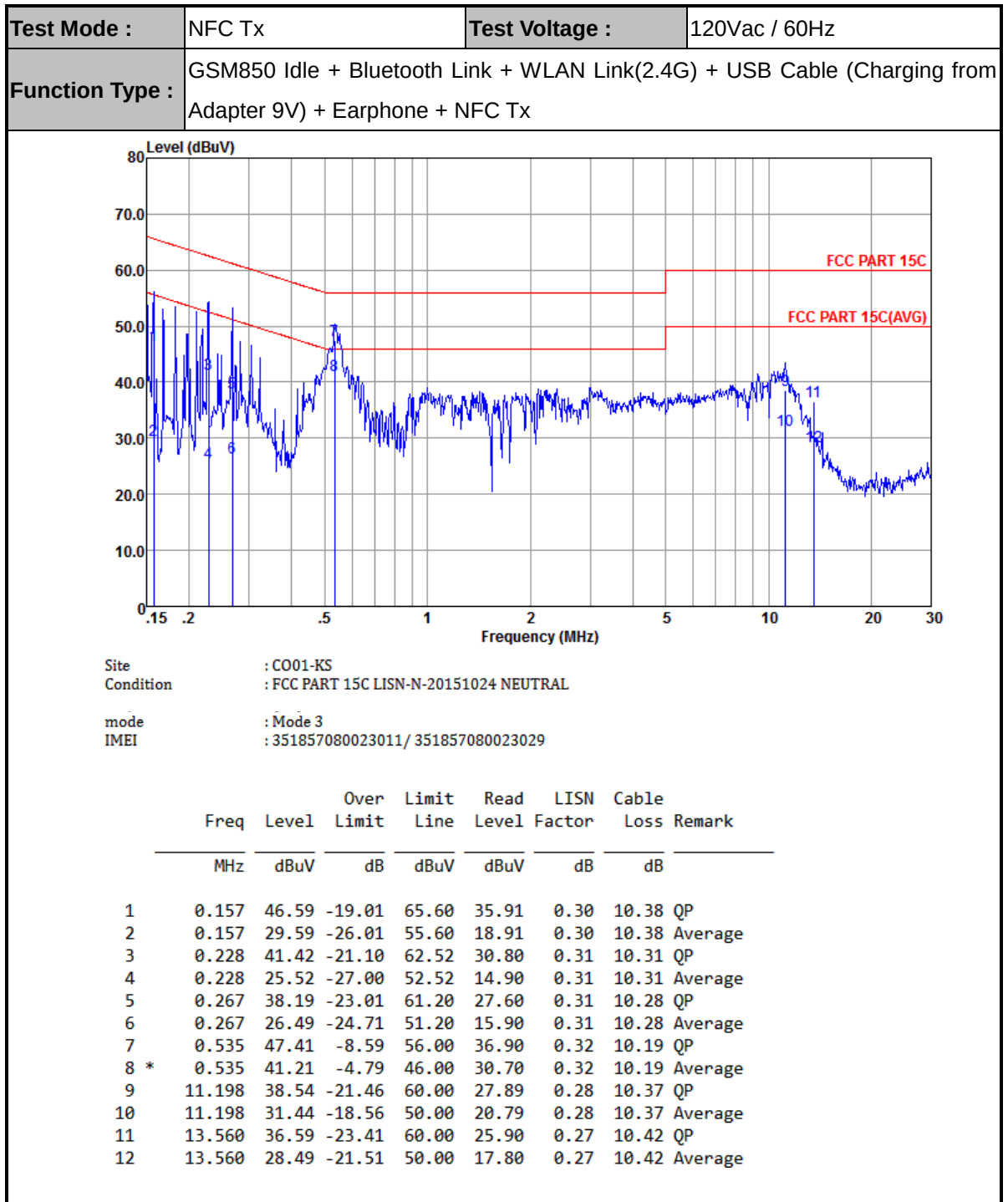


Site : CO01-KS  
Condition : FCC PART 15C LISN-L-20151024 LINE  
mode : Mode 3  
IMEI : 351857080023011/ 351857080023029

|     | Freq   | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark  |
|-----|--------|-------|------------|------------|------------|-------------|------------|---------|
|     | MHz    | dBuV  | dB         | dBuV       | dBuV       | dB          | dB         |         |
| 1   | 0.154  | 45.79 | -19.99     | 65.78      | 34.90      | 0.50        | 10.39      | QP      |
| 2   | 0.154  | 29.79 | -25.99     | 55.78      | 18.90      | 0.50        | 10.39      | Average |
| 3   | 0.207  | 41.25 | -22.07     | 63.32      | 30.70      | 0.22        | 10.33      | QP      |
| 4   | 0.207  | 24.35 | -28.97     | 53.32      | 13.80      | 0.22        | 10.33      | Average |
| 5   | 0.249  | 40.11 | -21.67     | 61.78      | 29.60      | 0.22        | 10.29      | QP      |
| 6   | 0.249  | 22.91 | -28.87     | 51.78      | 12.40      | 0.22        | 10.29      | Average |
| 7   | 0.532  | 42.32 | -13.68     | 56.00      | 31.90      | 0.23        | 10.19      | QP      |
| 8 * | 0.532  | 36.82 | -9.18      | 46.00      | 26.40      | 0.23        | 10.19      | Average |
| 9   | 9.913  | 36.49 | -23.51     | 60.00      | 25.90      | 0.25        | 10.34      | QP      |
| 10  | 9.913  | 28.49 | -21.51     | 50.00      | 17.90      | 0.25        | 10.34      | Average |
| 11  | 13.560 | 34.58 | -25.42     | 60.00      | 23.90      | 0.26        | 10.42      | QP      |
| 12  | 13.560 | 29.18 | -20.82     | 50.00      | 18.50      | 0.26        | 10.42      | Average |

(2) With dummy load

Remark: Only the fundamental NFC signal needs to be retested per C63.4.



(2) With dummy load

Remark: Only the fundamental NFC signal needs to be retested per C63.4.



## Appendix B. Test Results of Conducted Test Items

### B1. Test Result of 20dB Spectrum Bandwidth

| Test mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | NFC Tx                  |                | Test Frequency (MHz)                 |          | 13.56           |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------|----------------|--------------------------------------|----------|-----------------|---------|---------|----------|-----------------|----|--|---|---------------|------------|----------|-----------|----|--|---|---------------|------------|-----|----------|----|--|---|---------------|------------|----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------|-----|-----|---------|---------|----------|-----------------|----|--|---|---------------|------------|--|--|----|--|---|----------------|------------|--------|-----------------|----|--|---|----------------|------------|--|--|
| <div><div>Spectrum</div><div>Ref Level 0.00 dBm</div><div>Att 30 dB</div><div>RBW 1 kHz</div><div>SWT 20 ms</div><div>VBW 3 kHz</div><div>Mode Auto FFT</div></div> <div><div>IPk View</div><div><div><div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>-80 dBm</div><div>-90 dBm</div></div><div><div>M1</div><div>T1</div><div>T2</div></div><div><div>M1[1]</div><div>ndB</div><div>Bw</div><div>Q factor</div></div><div><div>-17.67 dBm</div><div>13.5592910 MHz</div><div>20.00 dB</div><div>2.489000000 kHz</div><div>5447.4</div></div></div></div><div><div>CF 13.56 MHz</div><div>691 pts</div><div>Span 10.0 kHz</div></div><div><div>Marker</div><table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td></td><td>1</td><td>13.559291 MHz</td><td>-17.67 dBm</td><td>ndB down</td><td>2.489 kHz</td></tr><tr><td>T1</td><td></td><td>1</td><td>13.558046 MHz</td><td>-37.44 dBm</td><td>ndB</td><td>20.00 dB</td></tr><tr><td>T2</td><td></td><td>1</td><td>13.560535 MHz</td><td>-37.91 dBm</td><td>Q factor</td><td>5447.4</td></tr></tbody></table></div></div> |     |                         |                | Type                                 | Ref      | Trc             | X-value | Y-value | Function | Function Result | M1 |  | 1 | 13.559291 MHz | -17.67 dBm | ndB down | 2.489 kHz | T1 |  | 1 | 13.558046 MHz | -37.44 dBm | ndB | 20.00 dB | T2 |  | 1 | 13.560535 MHz | -37.91 dBm | Q factor | 5447.4 | <div><div>Spectrum</div><div>Ref Level 0.00 dBm</div><div>Att 30 dB</div><div>RBW 1 kHz</div><div>SWT 20 ms</div><div>VBW 3 kHz</div><div>Mode Auto FFT</div></div> <div><div>IPk View</div><div><div><div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div><div>-80 dBm</div><div>-90 dBm</div></div><div><div>M1</div><div>T1</div><div>T2</div></div><div><div>M1[1]</div><div>Occ Bw</div></div><div><div>-17.57 dBm</div><div>13.5592910 MHz</div><div>2.098408104 kHz</div></div></div></div><div><div>CF 13.56 MHz</div><div>691 pts</div><div>Span 10.0 kHz</div></div><div><div>Marker</div><table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td></td><td>1</td><td>13.559291 MHz</td><td>-17.57 dBm</td><td></td><td></td></tr><tr><td>T1</td><td></td><td>1</td><td>13.5582344 MHz</td><td>-31.43 dBm</td><td>Occ Bw</td><td>2.098408104 kHz</td></tr><tr><td>T2</td><td></td><td>1</td><td>13.5603329 MHz</td><td>-31.33 dBm</td><td></td><td></td></tr></tbody></table></div></div> |  |  |  | Type | Ref | Trc | X-value | Y-value | Function | Function Result | M1 |  | 1 | 13.559291 MHz | -17.57 dBm |  |  | T1 |  | 1 | 13.5582344 MHz | -31.43 dBm | Occ Bw | 2.098408104 kHz | T2 |  | 1 | 13.5603329 MHz | -31.33 dBm |  |  |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ref | Trc                     | X-value        | Y-value                              | Function | Function Result |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| M1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 1                       | 13.559291 MHz  | -17.67 dBm                           | ndB down | 2.489 kHz       |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 1                       | 13.558046 MHz  | -37.44 dBm                           | ndB      | 20.00 dB        |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 1                       | 13.560535 MHz  | -37.91 dBm                           | Q factor | 5447.4          |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ref | Trc                     | X-value        | Y-value                              | Function | Function Result |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| M1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 1                       | 13.559291 MHz  | -17.57 dBm                           |          |                 |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| T1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 1                       | 13.5582344 MHz | -31.43 dBm                           | Occ Bw   | 2.098408104 kHz |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 1                       | 13.5603329 MHz | -31.33 dBm                           |          |                 |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| <div>Date: 4 NOV.2016 02:42:00</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                         |                | <div>Date: 4 NOV.2016 02:48:17</div> |          |                 |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| 20dB Bandwidth (kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | 2.49                    |                | 99% OccupiedBW(kHz)                  |          | 2.10            |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
| Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     | f <sub>L</sub> > 13.553 |                | 13.558046                            |          | Test Result     |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     | f <sub>H</sub> < 13.567 |                | 13.560535                            |          | Complies        |         |         |          |                 |    |  |   |               |            |          |           |    |  |   |               |            |     |          |    |  |   |               |            |          |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |      |     |     |         |         |          |                 |    |  |   |               |            |  |  |    |  |   |                |            |        |                 |    |  |   |                |            |  |  |

**B2. Test Result of Frequency Stability**

| <b>Voltage vs. Frequency Stability</b> |                                    | <b>Temperature vs. Frequency Stability</b> |                                    |
|----------------------------------------|------------------------------------|--------------------------------------------|------------------------------------|
| <b>Voltage (Vac)</b>                   | <b>Measurement Frequency (MHz)</b> | <b>Temperature (°C)</b>                    | <b>Measurement Frequency (MHz)</b> |
| 120                                    | 13.559284                          | -20                                        | 13.559277                          |
| 102                                    | 13.559284                          | -10                                        | 13.559277                          |
| 138                                    | 13.559284                          | 0                                          | 13.559277                          |
|                                        |                                    | 10                                         | 13.559277                          |
|                                        |                                    | 20                                         | 13.559284                          |
|                                        |                                    | 30                                         | 13.559277                          |
|                                        |                                    | 40                                         | 13.559277                          |
|                                        |                                    | 50                                         | 13.559277                          |
| <b>Max.Deviation (MHz)</b>             | -0.000717                          | <b>Max.Deviation (MHz)</b>                 | -0.000724                          |
| <b>Max.Deviation (ppm)</b>             | -52.8392                           | <b>Max.Deviation (ppm)</b>                 | -53.3555                           |
| <b>Limit</b>                           | <b>FS &lt; ±100 ppm</b>            | <b>Limit</b>                               | <b>FS &lt; ±100 ppm</b>            |
| <b>Test Result</b>                     | <b>PASS</b>                        | <b>Test Result</b>                         | <b>PASS</b>                        |

## Appendix C. Test Results of Radiated Test Items

### C1. Test Result of Field Strength of Fundamental Emissions

| Test Mode :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | NFC Tx |  |  |  | Test Frequency (MHz) |  | 13.56 |  |
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**C2. Results of Radiated Spurious Emissions (9 kHz~30MHz)**

|                    |        |                       |            |
|--------------------|--------|-----------------------|------------|
| <b>Test Mode :</b> | NFC Tx | <b>Polarization :</b> | Horizontal |
|--------------------|--------|-----------------------|------------|

| Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------|-------------------------|---------|
| 0.00999              | 57.92               | -69.7                   | 127.62                      | 37.31                   | 20.6                        | 0.01                    | -                    | -                       | Average |
| 0.01817              | 50                  | -72.42                  | 122.42                      | 29.39                   | 20.6                        | 0.01                    | -                    | -                       | Average |
| 1.323                | 41.68               | -23.48                  | 65.16                       | 21.93                   | 19.73                       | 0.02                    | -                    | -                       | QP      |
| 1.493                | 43.86               | -20.25                  | 64.11                       | 24.08                   | 19.75                       | 0.03                    | -                    | -                       | QP      |
| 2.18                 | 39.28               | -30.26                  | 69.54                       | 19.45                   | 19.8                        | 0.03                    | -                    | -                       | QP      |
| 11.762               | 43.68               | -25.86                  | 69.54                       | 23.54                   | 20                          | 0.14                    | -                    | -                       | QP      |

|                    |        |                       |          |
|--------------------|--------|-----------------------|----------|
| <b>Test Mode :</b> | NFC Tx | <b>Polarization :</b> | Vertical |
|--------------------|--------|-----------------------|----------|

| Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark  |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------|-------------------------|---------|
| 0.00971              | 60.5                | -67.36                  | 127.86                      | 39.89                   | 20.6                        | 0.01                    | -                    | -                       | Average |
| 0.03255              | 44.93               | -72.42                  | 117.35                      | 24.52                   | 20.4                        | 0.01                    | -                    | -                       | Average |
| 0.34425              | 53.65               | -43.2                   | 96.85                       | 33.14                   | 20.5                        | 0.01                    | -                    | -                       | Average |
| 1.547                | 50.16               | -13.65                  | 63.81                       | 30.38                   | 19.75                       | 0.03                    | -                    | -                       | QP      |
| 5.384                | 42.76               | -26.78                  | 69.54                       | 23.1                    | 19.59                       | 0.07                    | -                    | -                       | QP      |
| 15.414               | 42.46               | -27.08                  | 69.54                       | 22.58                   | 19.7                        | 0.18                    | -                    | -                       | QP      |

**Note:**

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Limit line = specific limits (dBμV) + distance extrapolation factor.

**C3.Results of Radiated Spurious Emissions (30MHz~1GHz)**

|                    |        |                       |            |
|--------------------|--------|-----------------------|------------|
| <b>Test Mode :</b> | NFC Tx | <b>Polarization :</b> | Horizontal |
|--------------------|--------|-----------------------|------------|

| Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| 30                   | 23.66               | -16.34                  | 40                          | 29.5                    | 25.8                        | 0.11                    | 31.75                      | 100                  | 20                      | Peak   |
| 103.72               | 16.46               | -27.04                  | 43.5                        | 29.48                   | 18.26                       | 0.24                    | 31.52                      | -                    | -                       | Peak   |
| 424.79               | 23.46               | -22.54                  | 46                          | 27.71                   | 24.9                        | 0.93                    | 30.08                      | -                    | -                       | Peak   |
| 723.55               | 25.65               | -20.35                  | 46                          | 26                      | 26.51                       | 1.26                    | 28.12                      | -                    | -                       | Peak   |
| 907.85               | 27.74               | -18.26                  | 46                          | 25.16                   | 27.71                       | 1.71                    | 26.84                      | -                    | -                       | Peak   |
| 997.09               | 29.78               | -24.22                  | 54                          | 24.26                   | 29.63                       | 1.91                    | 26.02                      | -                    | -                       | Peak   |

|                    |        |                       |          |
|--------------------|--------|-----------------------|----------|
| <b>Test Mode :</b> | NFC Tx | <b>Polarization :</b> | Vertical |
|--------------------|--------|-----------------------|----------|

| Frequency<br>( MHz ) | Level<br>( dBμV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBμV/m ) | Read<br>Level<br>(dBμV) | Antenna<br>Factor<br>( dB ) | Cable<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|--------|
| 40.67                | 24.01               | -15.99                  | 40                          | 34.22                   | 21.5                        | 0.13                    | 31.84                      | 100                  | 320                     | Peak   |
| 98.87                | 18.13               | -25.37                  | 43.5                        | 31.37                   | 18.03                       | 0.23                    | 31.5                       | -                    | -                       | Peak   |
| 401.51               | 23.67               | -22.33                  | 46                          | 28                      | 25.28                       | 0.93                    | 30.54                      | -                    | -                       | Peak   |
| 717.73               | 26.04               | -19.96                  | 46                          | 26.36                   | 26.58                       | 1.24                    | 28.14                      | -                    | -                       | Peak   |
| 890.39               | 28.23               | -17.77                  | 46                          | 26.03                   | 27.52                       | 1.65                    | 26.97                      | -                    | -                       | Peak   |
| 1000                 | 29.67               | -24.33                  | 54                          | 24.05                   | 29.7                        | 1.92                    | 26                         | -                    | -                       | Peak   |

**Note:**

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.