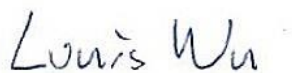


# FCC Test Report

APPLICANT : HMD Global Oy  
EQUIPMENT : Smart Phone  
BRAND NAME : NOKIA  
MODEL NAME : TA-1004  
FCC ID : 2AJOTTA-1004  
STANDARD : FCC 47 CFR FCC Part 15 Subpart B  
CLASSIFICATION : Certification

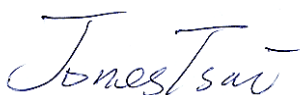
This is a variant report which is only valid together with the original test report. The product was received on Aug. 31, 2017 and testing was completed on Sep. 05, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

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



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Reviewed by: Louis Wu / Manager



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Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

**No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.**



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## REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FC783101   | Rev. 01 | Initial issue of report | Sep. 13, 2017 |
|            |         |                         |               |
|            |         |                         |               |
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|            |         |                         |               |
|            |         |                         |               |



## SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description           | Limit           | Result | Remark                                  |
|----------------|----------|-----------------------|-----------------|--------|-----------------------------------------|
| 3.1            | 15.107   | AC Conducted Emission | < 15.107 limits | PASS   | Under limit<br>9.70 dB at<br>0.182 MHz  |
| 3.2            | 15.109   | Radiated Emission     | < 15.109 limits | PASS   | Under limit<br>9.47 dB at<br>30.540 MHz |

**Remark:** This is a variant report which can be referred Class II Permissive Change. All the test cases were performed on original report which can be referred to Sporton Report Number FC712102. Based on the original report, the conducted emission and radiated emission test cases were verified.

## 1. General Description

### 1.1. Applicant

HMD Global Oy  
Karaportti 2, 02610 Espoo, Finland

### 1.2. Manufacturer

HMD Global Oy  
Karaportti 2, 02610 Espoo, Finland

### 1.3. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, NFC, ANT+ and GPS.

| Product Specification subjective to this standard |                                                                                                                                                             |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Antenna Type                                      | WWAN: PIFA Antenna<br>WLAN: PIFA Antenna<br>Bluetooth: PIFA Antenna<br>GPS / Glonass / Beidou: Monopole Antenna<br>NFC: Loop Antenna<br>ANT+ : PIFA Antenna |

### 1.4. Modification of EUT

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

## 1.5. Test Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

|                    |                                                                                                                                                                  |           |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                                                                                                       |           |
| Test Site Location | No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |           |
| Test Site No.      | Sporton Site No.                                                                                                                                                 |           |
|                    | CO05-HY                                                                                                                                                          | 03CH06-HY |

## 1.6. Applicable Standards

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

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

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

## 2. Test Configuration of Equipment Under Test

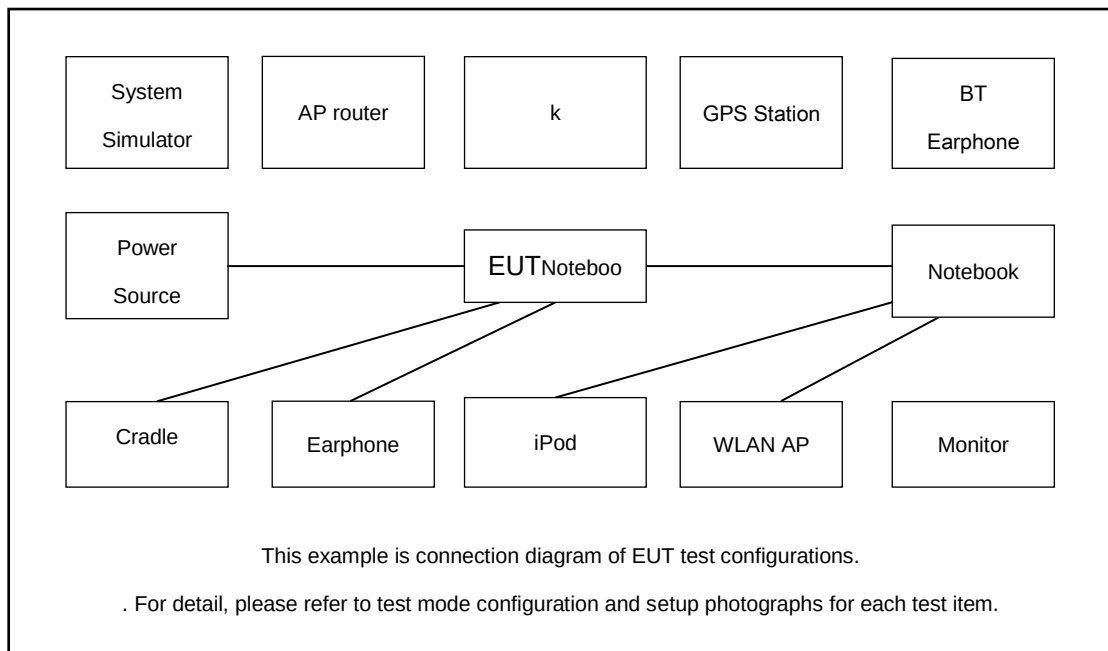
### 2.1. Test Mode

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

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

| Test Items                                                                                               | Function Type                                                                                                                  |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| AC Conducted Emission                                                                                    | Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + ANT+ Idle + Earphone + USB Cable (Data Link with Notebook) + SIM 1 |
| Radiated Emissions                                                                                       | Mode 1: GSM850 Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + ANT+ Idle + Earphone + USB Cable (Data Link with Notebook) + SIM 1 |
| <b>Remark:</b> Data Link with Notebook means data application transferred mode between EUT and Notebook. |                                                                                                                                |

### 2.2.Connection Diagram of Test System





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

| Item | Equipment          | Trade Name    | Model Name                          | FCC ID                                       | Data Cable       | Power Cord                                                 |
|------|--------------------|---------------|-------------------------------------|----------------------------------------------|------------------|------------------------------------------------------------|
| 1.   | System Simulator   | Anritsu       | MT8820C                             | N/A                                          | N/A              | Unshielded, 1.8 m                                          |
| 2.   | System Simulator   | R&S           | CMU 200                             | N/A                                          | N/A              | Unshielded, 1.8 m                                          |
| 3.   | Bluetooth Earphone | Sony Ericsson | MW600                               | PY7DDA-2029                                  | N/A              | N/A                                                        |
| 4.   | WLAN AP            | ASUS          | RT-AC66U                            | MSQ-RTAC66U                                  | N/A              | Unshielded, 1.8m                                           |
| 5.   | iPod               | Apple         | A1285                               | FCC DoC                                      | Shielded, 1.0 m  | N/A                                                        |
| 6.   | iPod EarPhone      | Apple         | N/A                                 | Verification                                 | Unshielded, 1.2m | N/A                                                        |
| 7.   | Notebook           | DELL          | Latitude E6320                      | FCC DoC/<br>Contains FCC ID:<br>QDS-BRCM1054 | N/A              | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 8.   | Notebook           | DELL          | Latitude E3340                      | FCC DoC/<br>Contains FCC ID:<br>PD97260NGU   | N/A              | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |
| 9.   | SD Card            | SanDisk       | MicroSD HC                          | FCC DoC                                      | N/A              | N/A                                                        |
| 10.  | SD Card            | SanDisk       | MicroSDHC<br>16GB Class<br>10 UHS-I | FCC DoC                                      | N/A              | N/A                                                        |
| 11.  | Wheel Counter      | N/A           | N/A                                 | N/A                                          | N/A              | N/A                                                        |



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

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

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

1. Data application is transferred between Laptop and EUT via USB cable.
2. EUT links with Notebook and execute ping.
3. Execute ANT+ application to connect with the wheel counter.

### 3. Test Result

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

##### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

\*Decreases with the logarithm of the frequency.

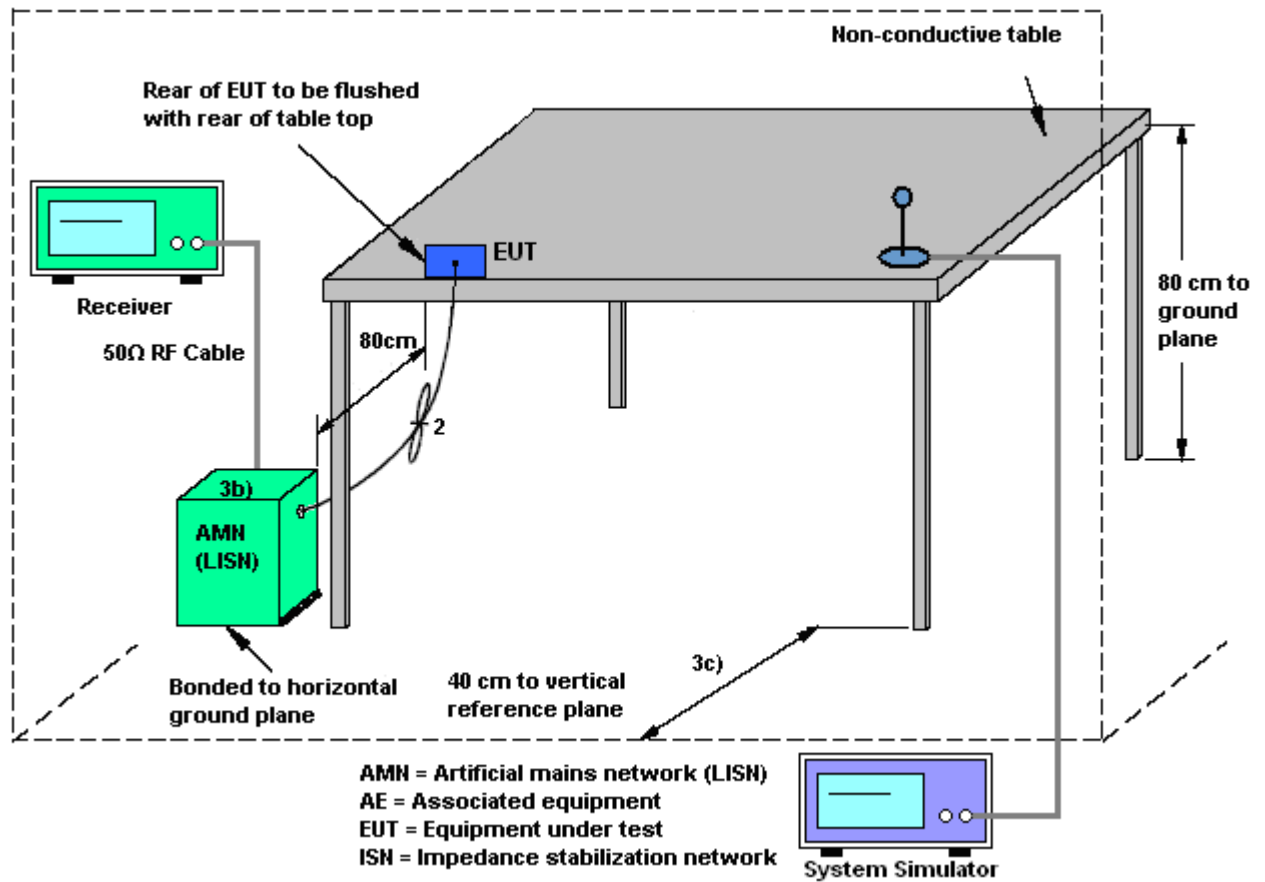
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedure

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

### 3.1.4 Test Setup

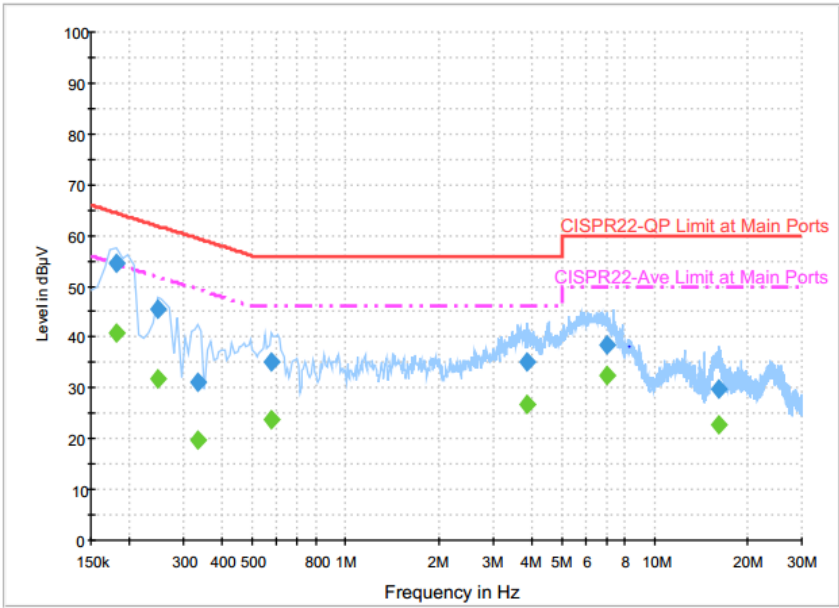


### 3.1.5 Test Result of AC Conducted Emission

|                        |               |                            |         |
|------------------------|---------------|----------------------------|---------|
| <b>Test Engineer :</b> | Shareef Yu    | <b>Temperature :</b>       | 27~28°C |
|                        |               | <b>Relative Humidity :</b> | 47~48%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz | <b>Phase :</b>             | Line    |

ENV216 Auto Test-L



The graph shows the AC conducted emission results. The Y-axis is 'Level in dBμV' ranging from 0 to 100. The X-axis is 'Frequency in Hz' on a logarithmic scale from 150k to 30M. A red solid line represents the 'CISPR22-QP Limit at Main Ports', and a magenta dashed line represents the 'CISPR22-Ave Limit at Main Ports'. The test data is shown as a blue line with green diamond markers. The data points are summarized in the tables below.

**Final Result : Quasi-Peak**

| Frequency (MHz) | Quasi-Peak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.182000        | 54.7              | Off    | L1   | 19.5       | 9.7         | 64.4         |
| 0.246000        | 45.6              | Off    | L1   | 19.5       | 16.3        | 61.9         |
| 0.334000        | 31.1              | Off    | L1   | 19.5       | 28.3        | 59.4         |
| 0.574000        | 35.2              | Off    | L1   | 19.5       | 20.8        | 56.0         |
| 3.862000        | 35.0              | Off    | L1   | 19.6       | 21.0        | 56.0         |
| 7.006000        | 38.3              | Off    | L1   | 19.6       | 21.7        | 60.0         |
| 16.094000       | 29.6              | Off    | L1   | 19.7       | 30.4        | 60.0         |

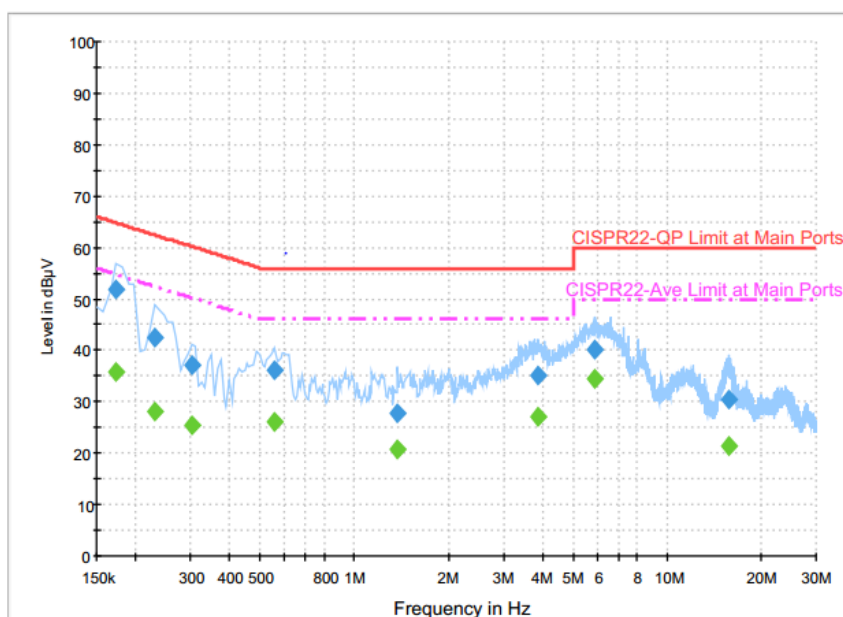
  

**Final Result : Average**

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.182000        | 40.9           | Off    | L1   | 19.5       | 13.5        | 54.4         |
| 0.246000        | 31.8           | Off    | L1   | 19.5       | 20.1        | 51.9         |
| 0.334000        | 19.6           | Off    | L1   | 19.5       | 29.8        | 49.4         |
| 0.574000        | 23.8           | Off    | L1   | 19.5       | 22.2        | 46.0         |
| 3.862000        | 26.7           | Off    | L1   | 19.6       | 19.3        | 46.0         |
| 7.006000        | 32.3           | Off    | L1   | 19.6       | 17.7        | 50.0         |
| 16.094000       | 22.6           | Off    | L1   | 19.7       | 27.4        | 50.0         |

|                        |                                                                                 |                            |         |
|------------------------|---------------------------------------------------------------------------------|----------------------------|---------|
| <b>Test Engineer :</b> | Shareef Yu                                                                      | <b>Temperature :</b>       | 27~28°C |
|                        |                                                                                 | <b>Relative Humidity :</b> | 47~48%  |
| <b>Test Voltage :</b>  | 120Vac / 60Hz                                                                   | <b>Phase :</b>             | Neutral |
| <b>Remark :</b>        | All emissions not reported here are more than 10 dB below the prescribed limit. |                            |         |

ENV216 Auto Test-N



### Final Result : Quasi-Peak

| Frequency (MHz) | Quasi-Peak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.174000        | 51.9              | Off    | N    | 19.5       | 12.9        | 64.8         |
| 0.230000        | 42.5              | Off    | N    | 19.5       | 19.9        | 62.4         |
| 0.302000        | 37.2              | Off    | N    | 19.5       | 23.0        | 60.2         |
| 0.558000        | 36.0              | Off    | N    | 19.5       | 20.0        | 56.0         |
| 1.374000        | 27.6              | Off    | N    | 19.5       | 28.4        | 56.0         |
| 3.870000        | 35.1              | Off    | N    | 19.6       | 20.9        | 56.0         |
| 5.854000        | 40.3              | Off    | N    | 19.6       | 19.7        | 60.0         |
| 15.782000       | 30.6              | Off    | N    | 19.8       | 29.4        | 60.0         |

### Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.174000        | 35.8           | Off    | N    | 19.5       | 19.0        | 54.8         |
| 0.230000        | 28.1           | Off    | N    | 19.5       | 24.3        | 52.4         |
| 0.302000        | 25.5           | Off    | N    | 19.5       | 24.7        | 50.2         |
| 0.558000        | 26.1           | Off    | N    | 19.5       | 19.9        | 46.0         |
| 1.374000        | 20.8           | Off    | N    | 19.5       | 25.2        | 46.0         |
| 3.870000        | 27.2           | Off    | N    | 19.6       | 18.8        | 46.0         |
| 5.854000        | 34.3           | Off    | N    | 19.6       | 15.7        | 50.0         |
| 15.782000       | 21.4           | Off    | N    | 19.8       | 28.6        | 50.0         |

## 3.2. Test of Radiated Emission Measurement

### 3.2.1. Limit of Radiated Emission

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

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

### 3.2.2. Measuring Instruments

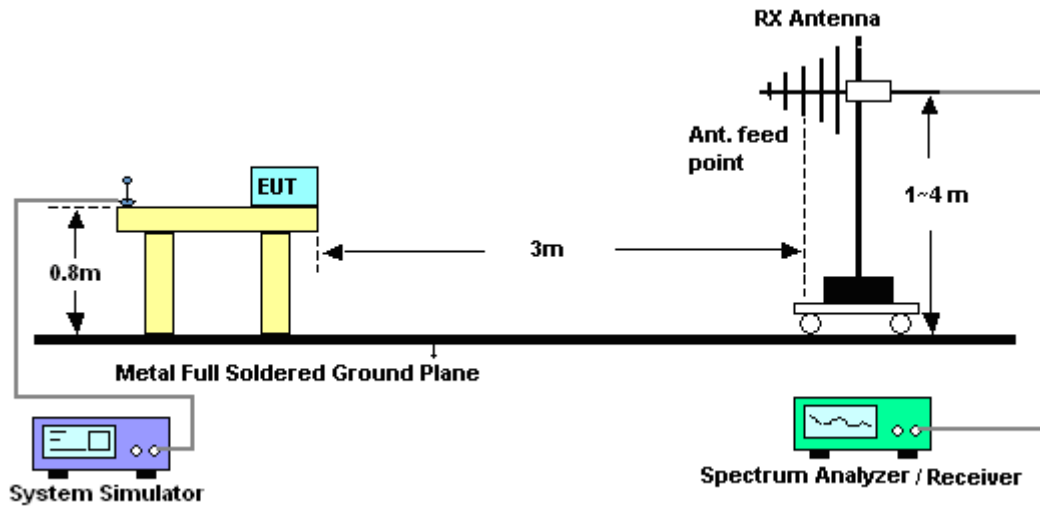
The measuring equipment is listed in the section 4 of this test report.

**3.2.3. Test Procedures**

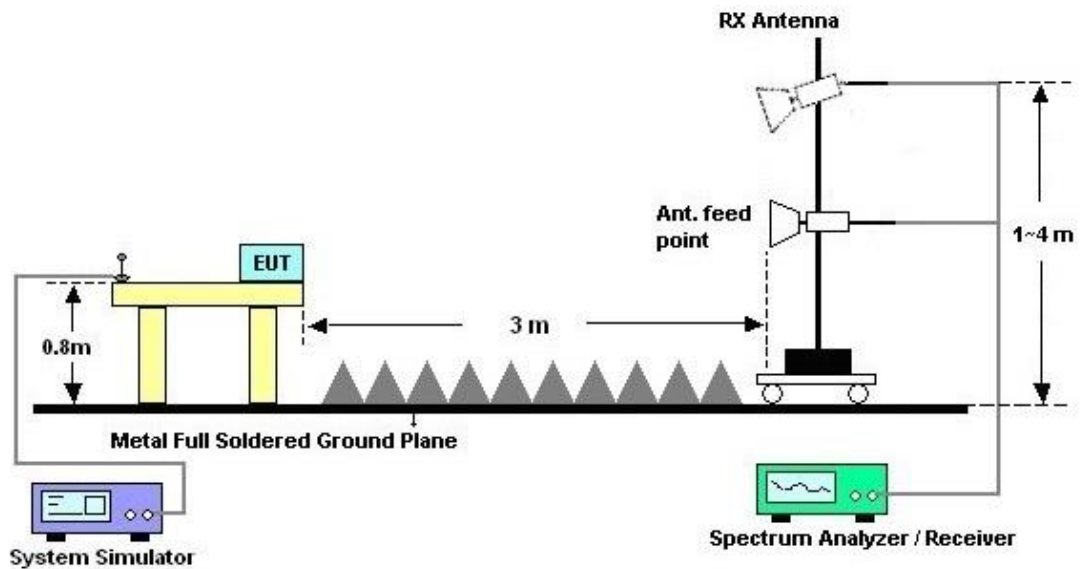
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna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

### 3.2.4. Test Setup of Radiated Emission

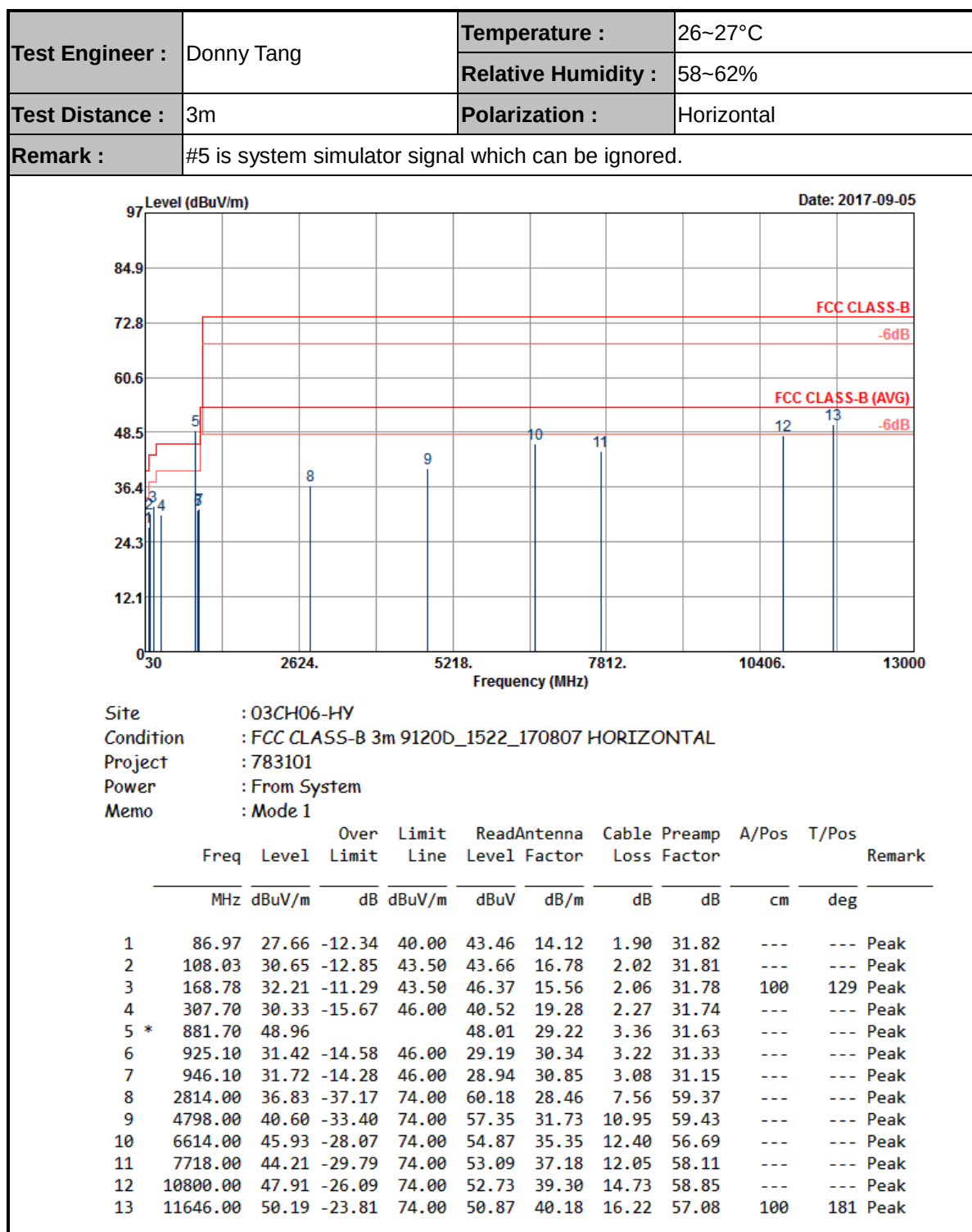
For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

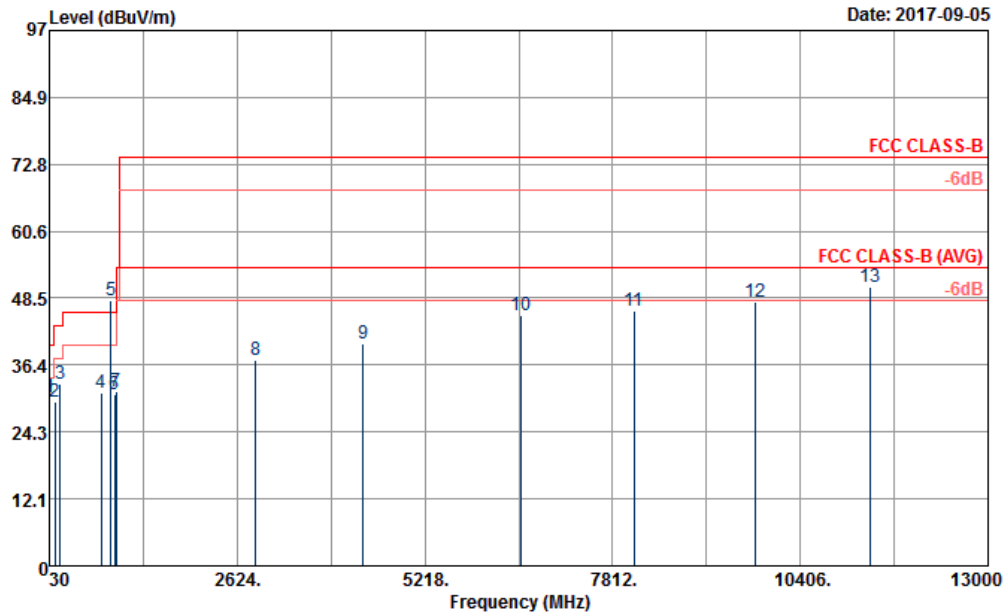


### 3.2.5. Test Result of Radiated Emission





|                 |                                                     |                     |          |
|-----------------|-----------------------------------------------------|---------------------|----------|
| Test Engineer : | Donny Tang                                          | Temperature :       | 26~27°C  |
|                 |                                                     | Relative Humidity : | 58~62%   |
| Test Distance : | 3m                                                  | Polarization :      | Vertical |
| Remark :        | #5 is system simulator signal which can be ignored. |                     |          |



Site : 03CH06-HY  
 Condition : FCC CLASS-B 3m 9120D\_1522\_170807 VERTICAL  
 Project : 783101  
 Power : From System  
 Memo : Mode 1

|     | Freq     | Level  | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss | A/Pos | T/Pos | Remark   |
|-----|----------|--------|------------|------------|-------------------|--------------|-------------|-------|-------|----------|
|     | MHz      | dBuV/m | dB         | dBuV/m     | dBuV              | dB/m         | dB          | dB    | cm    | deg      |
| 1   | 30.54    | 30.53  | -9.47      | 40.00      | 36.70             | 23.77        | 1.90        | 31.84 | 100   | 147 Peak |
| 2   | 110.46   | 29.66  | -13.84     | 43.50      | 42.45             | 17.00        | 2.02        | 31.81 | ---   | ---      |
| 3   | 174.72   | 33.09  | -10.41     | 43.50      | 47.72             | 15.13        | 2.02        | 31.78 | ---   | ---      |
| 4   | 746.60   | 31.45  | -14.55     | 46.00      | 31.83             | 28.27        | 3.40        | 32.05 | ---   | ---      |
| 5 * | 881.70   | 48.02  |            |            | 47.07             | 29.22        | 3.36        | 31.63 | ---   | ---      |
| 6   | 928.60   | 30.97  | -15.03     | 46.00      | 28.64             | 30.43        | 3.19        | 31.29 | ---   | ---      |
| 7   | 951.70   | 31.52  | -14.48     | 46.00      | 28.62             | 30.94        | 3.05        | 31.09 | ---   | ---      |
| 8   | 2876.00  | 37.18  | -36.82     | 74.00      | 60.36             | 28.58        | 7.59        | 59.35 | ---   | ---      |
| 9   | 4362.00  | 40.29  | -33.71     | 74.00      | 58.55             | 30.93        | 10.82       | 60.01 | ---   | ---      |
| 10  | 6546.00  | 45.34  | -28.66     | 74.00      | 54.39             | 35.18        | 12.27       | 56.50 | ---   | ---      |
| 11  | 8104.00  | 46.29  | -27.71     | 74.00      | 55.10             | 36.44        | 12.75       | 58.00 | ---   | ---      |
| 12  | 9790.00  | 47.86  | -26.14     | 74.00      | 54.98             | 38.29        | 14.36       | 59.77 | ---   | ---      |
| 13  | 11370.00 | 50.43  | -23.57     | 74.00      | 52.09             | 40.24        | 15.75       | 57.65 | 100   | 157 Peak |



## 4. List of Measuring Equipment

| Instrument        | Manufacturer    | Model No.               | Serial No.    | Characteristics | Calibration Date | Test Date                     | Due Date      | Remark                |
|-------------------|-----------------|-------------------------|---------------|-----------------|------------------|-------------------------------|---------------|-----------------------|
| AC Power Source   | ChainTek        | APC-1000W               | N/A           | N/A             | N/A              | Sep. 05, 2017                 | N/A           | Conduction (CO05-HY)  |
| LISN              | Rohde & Schwarz | ENV216                  | 100080        | 9kHz~30MHz      | Nov. 29, 2016    | Sep. 05, 2017                 | Nov. 28, 2017 | Conduction (CO05-HY)  |
| LISN              | Rohde & Schwarz | ENV216                  | 100081        | 9kHz~30MHz      | Dec. 06, 2016    | Sep. 05, 2017                 | Dec. 05, 2017 | Conduction (CO05-HY)  |
| EMI Test Receiver | Rohde & Schwarz | ESU26                   | 100472        | 20Hz~26.5GHz    | Dec. 29, 2016    | Sep. 05, 2017                 | Dec. 28, 2017 | Conduction (CO05-HY)  |
| Bilog Antenna     | Schaffner       | CBL6111C&N-6-06         | 2725&AT-N0601 | 30MHz~1GHz      | Oct. 15, 2016    | Sep. 04, 2017 ~ Sep. 05, 2017 | Oct. 14, 2017 | Radiation (03CH06-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESU26                   | 100472        | 20Hz~26.5GHz    | Dec. 29, 2016    | Sep. 04, 2017 ~ Sep. 05, 2017 | Dec. 28, 2017 | Radiation (03CH06-HY) |
| Preamplifier      | SONOMA          | 310N                    | 186713        | 9kHz~1GHz       | Apr. 25, 2017    | Sep. 04, 2017 ~ Sep. 05, 2017 | Apr. 24, 2018 | Radiation (03CH06-HY) |
| Preamplifier      | MITEQ           | AMF-7D-0010 1800-30-10P | 1850117       | 1GHz ~ 18GHz    | May 22, 2017     | Sep. 04, 2017 ~ Sep. 05, 2017 | May 21, 2018  | Radiation (03CH06-HY) |
| Antenna Mast      | MF              | MF-7802                 | MF780208212   | 1m~4m           | N/A              | Sep. 04, 2017 ~ Sep. 05, 2017 | N/A           | Radiation (03CH06-HY) |
| Turn Table        | INN-CO          | DS2000                  | 420/650/00    | 0-360 degree    | N/A              | Sep. 04, 2017 ~ Sep. 05, 2017 | N/A           | Radiation (03CH06-HY) |
| Horn Antenna      | SCHWARZBECK     | BBHA 9120 D             | 9120D-1522    | 1G~18GHz        | Mar. 17, 2017    | Sep. 04, 2017 ~ Sep. 05, 2017 | Mar. 16, 2018 | Radiation (03CH06-HY) |

## 5. Uncertainty of Evaluation

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 2.70 |
|----------------------------------------------------------------------------|------|

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

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 3.90 |
|----------------------------------------------------------------------------|------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2Uc(y)$ ) | 4.70 |
|----------------------------------------------------------------------------|------|