

## TEST REPORT

**Report No.: 18091162HKG-005**

BBPOS International Limited

Application For Certification  
(Original Grant)

This report contains the data of 13MHZ RFID portion only

**FCC ID: 2AB7X-WISECUBE**

Transceiver

**Prepared and Checked by:**

**Approved by:**

Signed On File

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Date: November 06, 2018

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## TEST REPORT

### GENERAL INFORMATION

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| <b>Grantee:</b>                  | BBPOS International Limited                                                            |
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| <b>Manufacturer Address:</b>     | Suite 1903-04, Tower 2, Nina Tower,<br>8 Yeung Uk Road, Tsuen Wan,<br>N.T., Hong Kong. |
| <b>Brand Name:</b>               | BBPOS                                                                                  |
| <b>Model:</b>                    | WiseCube                                                                               |
| <b>Type of EUT:</b>              | Transceiver                                                                            |
| <b>Description of EUT:</b>       | WiseCube                                                                               |
| <b>Serial Number:</b>            | N/A                                                                                    |
| <b>FCC ID:</b>                   | 2AB7X-WISECUBE                                                                         |
| <b>Date of Sample Submitted:</b> | September 27, 2018                                                                     |
| <b>Date of Test:</b>             | September 27, 2018 to November 02, 2018                                                |
| <b>Report No.:</b>               | 18091162HKG-005                                                                        |
| <b>Report Date:</b>              | November 06, 2018                                                                      |
| <b>Environmental Conditions:</b> | Temperature: +10 to 40°C<br>Humidity: 10 to 90%                                        |

## TEST REPORT

### SUMMARY OF TEST RESULT

| Test Specification                                     | Reference | Results |
|--------------------------------------------------------|-----------|---------|
| Transmitter Field Strength<br>Frequency Stability      | 15.225    | Pass    |
| Radiated Emission<br>Radiated Emission on the Bandedge | 15.209    | Pass    |
| Radiated Emission in Restricted Bands                  | 15.205    | Pass    |

The equipment under test is found to be complying with the following standards:  
FCC Part 15, October 1, 2016 Edition

Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the pervisions of this section.  
2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.

## TEST REPORT

### TABLE OF CONTENTS

|             |                                                 |           |
|-------------|-------------------------------------------------|-----------|
| <b>1.0</b>  | <b>GENERAL DESCRIPTION .....</b>                | <b>5</b>  |
| 1.1         | Product Description .....                       | 5         |
| 1.2         | Related Submittal(s) Grants.....                | 5         |
| 1.3         | Test Methodology .....                          | 5         |
| 1.4         | Test Facility .....                             | 5         |
| <b>2.0</b>  | <b>SYSTEM TEST CONFIGURATION.....</b>           | <b>6</b>  |
| 2.1         | Justification .....                             | 6         |
| 2.2         | EUT Exercising Software .....                   | 6         |
| 2.3         | Special Accessories.....                        | 6         |
| 2.4         | Measurement Uncertainty .....                   | 6         |
| 2.5         | Support Equipment List and Description .....    | 6         |
| <b>3.0</b>  | <b>EMISSION RESULTS.....</b>                    | <b>7</b>  |
| 3.1         | Field Strength Calculation.....                 | 7         |
| 3.2         | Radiated Emission Configuration Photograph..... | 8         |
| 3.3         | Radiated Emission Data.....                     | 8         |
| 3.4         | Frequency Stability.....                        | 10        |
| <b>4.0</b>  | <b>EQUIPMENT PHOTOGRAPHS .....</b>              | <b>11</b> |
| <b>5.0</b>  | <b>PRODUCT LABELLING.....</b>                   | <b>11</b> |
| <b>6.0</b>  | <b>TECHNICAL SPECIFICATIONS .....</b>           | <b>11</b> |
| <b>7.0</b>  | <b>INSTRUCTION MANUAL.....</b>                  | <b>11</b> |
| <b>8.0</b>  | <b>MISCELLANEOUS INFORMATION .....</b>          | <b>12</b> |
| 8.1         | Measured Bandwidth.....                         | 12        |
| 8.2         | Discussion of Pulse Desensitization .....       | 13        |
| 8.3         | Calculation of Average Factor .....             | 13        |
| 8.4         | Emissions Test Procedures .....                 | 14        |
| <b>9.0</b>  | <b>CONFIDENTIALITY REQUEST .....</b>            | <b>18</b> |
| <b>10.0</b> | <b>EQUIPMENT LIST .....</b>                     | <b>18</b> |

## TEST REPORT

### 1.0 GENERAL DESCRIPTION

#### 1.1 Product Description

The Equipment Under Test (EUT) is an 13MHz RFID card reader which can support Bluetooth 2.1 and 4.2. For the RFID function, it uses to identify the tags. The EUT is powered by 3.7V internal battery.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

#### 1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

#### 1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the “**Justification Section**” of this Application.

#### 1.4 Test Facility

The 3m Chamber and conducted measurement facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been placed on file with the FCC.

## TEST REPORT

### 2.0 SYSTEM TEST CONFIGURATION

#### 2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.10 (2013).

The device was powered by fully charged 3.7V internal battery.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data report in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table. The unit was operated standalone and placed in the center of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

All relevant operation modes have been tested, and the worst case data was included in this report.

#### 2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF signal continuously.

#### 2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

#### 2.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

#### 2.5 Support Equipment List and Description

1. C3 EMV Test card (Supplied by Client)
2. Mobile phone (Brand: Samsung, Model: SM-G9287)(Supplied by Client)

## TEST REPORT

### 3.0 EMISSION RESULTS

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

#### 3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CF - AG - AV$$

where FS = Field Strength in dB $\mu$ V/m

RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

$$FS = RR + LF$$

where FS = Field Strength in dB $\mu$ V/m

RR = RA - AG - AV in dB $\mu$ V

LF = CF + AF in dB

Assume a receiver reading of 52.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 32 dB $\mu$ V/m. This value in dB $\mu$ V/m was converted to its corresponding level in  $\mu$ V/m.

$$RA = 52.0 \text{ dB}\mu\text{V/m}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$AV = 5.0 \text{ dB}$$

$$FS = RR + LF$$

$$FS = 18 + 9 = 27 \text{ dB}\mu\text{V/m}$$

$$RR = 18.0 \text{ dB}\mu\text{V}$$

$$LF = 9.0 \text{ dB}$$

$$\text{Level in } \mu\text{V/m} = \text{Common Antilogarithm } [(27 \text{ dB}\mu\text{V/m})/20] = 22.4 \mu\text{V/m}$$

## TEST REPORT

### 3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 691.626 MHz

For electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

### 3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 7.5 dB

## TEST REPORT

### RADIATED EMISSIONS

Model: WiseCube

Worst-Case Operating Mode: Transmitting

Table 1  
Pursuant to FCC Part 15 Section 15.225 Requirement

| Polarization | Frequency (MHz) | Reading (dBμV) | Pre-amp (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Distance Factor (-dB) | Calculated at 30m (dBμV/m) | Limit at 30m (dBμV/m) | Margin (dB) |
|--------------|-----------------|----------------|--------------|---------------------|--------------------|-----------------------|----------------------------|-----------------------|-------------|
| V            | 13.560          | 43.7           | 0            | 10.8                | 54.5               | 40.0                  | 14.5                       | 84.0                  | -69.5       |
| V            | 27.120          | 22.8           | 0            | 9.5                 | 32.3               | 40.0                  | -7.7                       | 29.5                  | -37.2       |

| Polari-<br>zation | Frequency (MHz) | Reading (dBμV) | Pre-amp (dB) | Antenna Factor (dB) | Net at 3m (dBμV/m) | Limit at 3m (dBμV/m) | Margin (dB) |
|-------------------|-----------------|----------------|--------------|---------------------|--------------------|----------------------|-------------|
| V                 | 40.680          | 37.3           | 16           | 10.0                | 31.3               | 40.0                 | -8.7        |
| H                 | 67.800          | 39.7           | 16           | 8.0                 | 31.7               | 40.0                 | -8.3        |
| H                 | 94.920          | 36.0           | 16           | 11.0                | 31.0               | 43.5                 | -12.5       |
| H                 | 122.040         | 37.8           | 16           | 14.0                | 35.8               | 43.5                 | -7.7        |
| H                 | 135.600         | 32.8           | 16           | 14.0                | 30.8               | 43.5                 | -12.7       |
| H                 | 149.160         | 34.8           | 16           | 14.0                | 32.8               | 43.5                 | -10.7       |
| H                 | 162.718         | 32.5           | 16           | 16.0                | 32.5               | 43.5                 | -11.0       |
| H                 | 176.307         | 24.4           | 16           | 25.0                | 33.4               | 43.5                 | -10.1       |
| H                 | 230.511         | 32.1           | 16           | 18.0                | 34.1               | 46.0                 | -11.9       |
| H                 | 257.659         | 31.0           | 16           | 21.0                | 36.0               | 46.0                 | -10.0       |
| H                 | 284.776         | 25.2           | 16           | 22.0                | 31.2               | 46.0                 | -14.8       |
| H                 | 311.894         | 26.1           | 16           | 23.0                | 33.1               | 46.0                 | -12.9       |
| H                 | 393.276         | 23.3           | 16           | 25.0                | 32.3               | 46.0                 | -13.7       |
| H                 | 691.626         | 24.5           | 16           | 30.0                | 38.5               | 46.0                 | -7.5        |

- NOTES:
1. Peak Detector Data unless otherwise stated.
  2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
  3. Negative sign in the column shows value below limit.
  4. Loop antenna is used for the emissions below 30MHz.
  5. Emission within the restricted band meets the requirement of FCC Part 15 Section 15.205.
  6. Measurement Uncertainty is  $\pm 5.3$ dB at a level of confidence of 95%.

## TEST REPORT

### 3.4 Frequency Stability

#### FCC Part 15 Section 15.225

**Data Table**  
**Frequency Deviation with Voltage Variation**

| Operating frequency |                  | 13.560840MHz             |                     |           |
|---------------------|------------------|--------------------------|---------------------|-----------|
| Test Voltage (V)    | Temperature (°C) | Measured frequency (MHz) | Frequency error (%) | Limit (%) |
| 3.7                 | + 50             | 13.560686                | -0.00072            | ±0.01     |
| 3.7                 | + 40             | 13.560708                | -0.00056            | ±0.01     |
| 3.7                 | + 30             | 13.560716                | -0.00050            | ±0.01     |
| 3.7                 | + 20             | 13.560784                | 0                   | ±0.01     |
| 3.7                 | + 10             | 13.560810                | 0.00019             | ±0.01     |
| 3.7                 | 0                | 13.560816                | 0.00024             | ±0.01     |
| 3.7                 | - 10             | 13.560822                | 0.00028             | ±0.01     |
| 3.7                 | - 20             | 13.560832                | 0.00035             | ±0.01     |

| Nominal frequency<br>Temperature (°C)<br>Humidity (%) | Voltage | Frequency (MHz) | Frequency error (ppm) | Limite (ppm) | Result |
|-------------------------------------------------------|---------|-----------------|-----------------------|--------------|--------|
| 20°C 50%                                              | 3.7     | 13.560784       | 0                     | 100          | Pass   |
| 20°C 50%                                              | 3.4     | 13.560790       | 0.442                 | 100          | Pass   |
| 20°C 50%                                              | 3.1     | 13.560796       | 0.885                 | 100          | Pass   |

The device is deemed to comply with the requirement of FCC15.225(e).

## TEST REPORT

### 4.0 EQUIPMENT PHOTOGRAPHS

For electronic filing, the photographs are saved with filename: external photos.pdf and internal photos.pdf.

### 5.0 PRODUCT LABELLING

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

### 6.0 TECHNICAL SPECIFICATIONS

For electronic filing, the block diagram and schematic of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

### 7.0 INSTRUCTION MANUAL

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

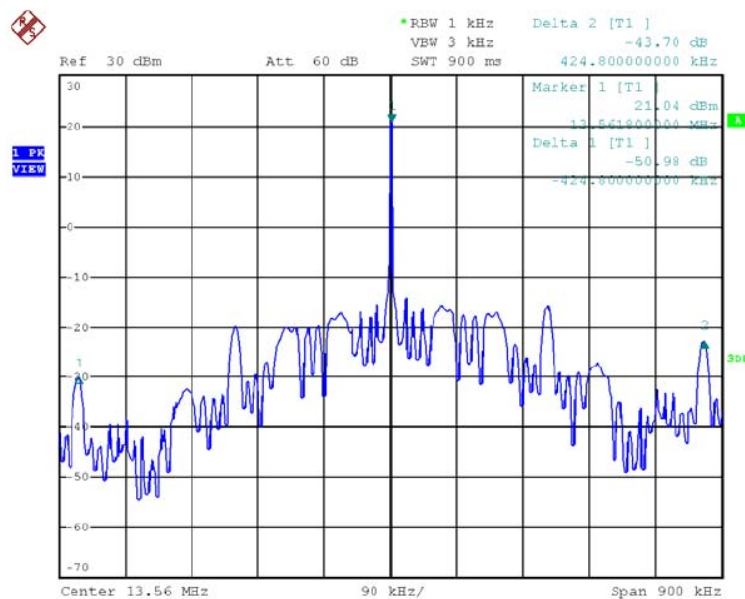
## TEST REPORT

### 8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth such as pulse desensitization and averaging factor (calculation and timing diagram).

#### 8.1 Measured Bandwidth

The plot saved in bw.pdf which shows the fundamental emission is confined in the specified band. The emission of the fundamental is 54.5 dB $\mu$ V/m and it is below the limit of 50.5 dB $\mu$ V/m in the range of (13.410-13.553MHz) and (13.567-13.710MHz) and the limit of 40.5 dB $\mu$ V/m in the frequency range of (13.110-14.410MHz) and (13.710-14.010MHz). In the frequency range from 13.110-14.010MHz, we can not find any emission higher than the fundamental emission. Therefore they meet the requirement of Section 15.225(a), (b), (c), & (d).



## TEST REPORT

### 8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. Since the transmitter transmits the RF signal continuously.

### 8.3 Calculation of Average Factor

The average factor is not applicable for this device as the transmitted signal is a continuously signal.

## TEST REPORT

### 8.4 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services Hong Kong Ltd. in the measurements of transmitter operating under the Part 15, Subpart C rules.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower. For line conducted emissions, the range scanned is 150 kHz to 30 MHz.

## TEST REPORT

### 8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.10 (2013).

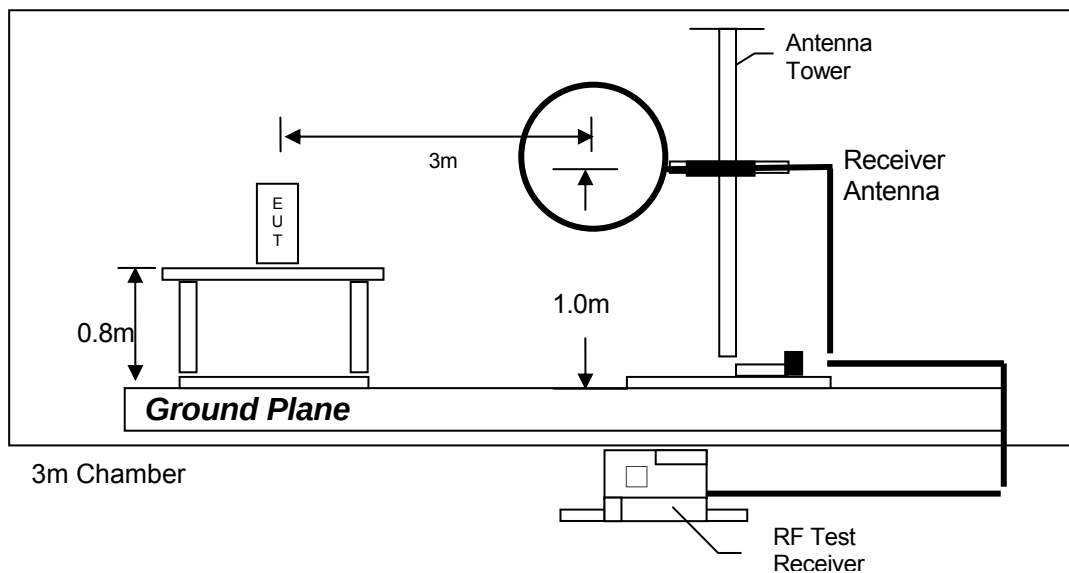
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 3 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

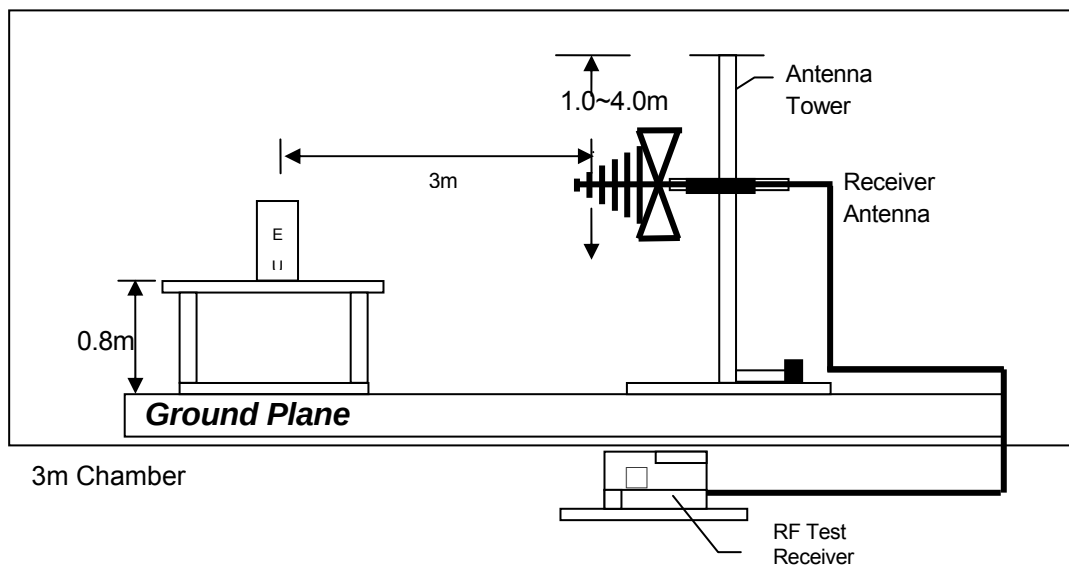
## TEST REPORT

### 8.4.1 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.



Test setup of radiated emissions up to 30MHz



Test setup of radiated emissions above 1GHz

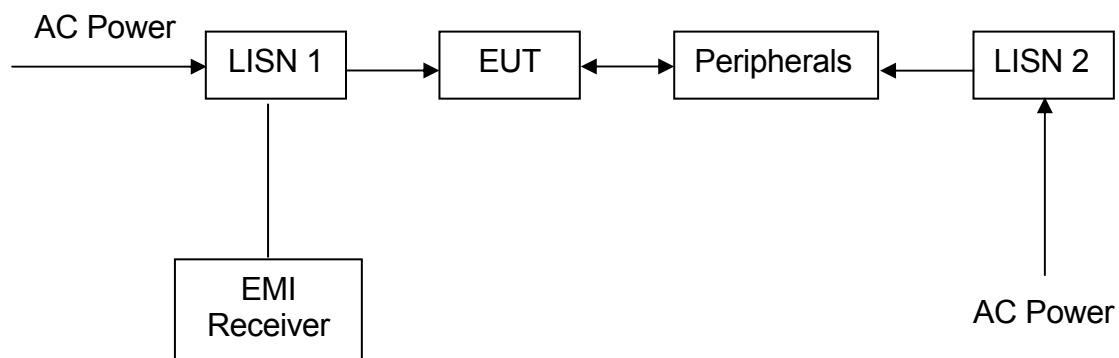
## TEST REPORT

### 8.4.2 Conducted Emission Test Procedures

For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. For floor-standing equipment, the EUT and all cables were insulated, if required, from the ground plane by up to 12 mm of insulating material. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.

All connecting cables of EUT and peripherals were moved to find the maximum emission.

### 8.4.3 Conducted Emission Test Setup



## TEST REPORT

### 9.0 CONFIDENTIALITY REQUEST

For electronic filing, a preliminary copy of the confidentiality request is saved with filename: request.pdf.

### 10.0 EQUIPMENT LIST

#### 1) Radiated Emissions Test

| Equipment            | EMI Test Receiver | Spectrum Analyzer | Biconical Antenna |
|----------------------|-------------------|-------------------|-------------------|
| Registration No.     | EW-3156           | EW-3281           | EW-0571           |
| Manufacturer         | ROHDESCHWARZ      | ROHDESCHWARZ      | EMCO              |
| Model No.            | ESR26             | FSV40             | 3104C             |
| Calibration Date     | November 10, 2017 | January 02, 2018  | February 27, 2018 |
| Calibration Due Date | November 10, 2018 | January 02, 2019  | August 27, 2019   |

| Equipment            | Log Periodic Antenna | Double Ridged Guide Antenna | Log Periodic Antenna |
|----------------------|----------------------|-----------------------------|----------------------|
| Registration No.     | EW-1042              | EW-1133                     | EW-0447              |
| Manufacturer         | EMCO                 | EMCO                        | EMCO                 |
| Model No.            | 3148                 | 3115                        | 3146                 |
| Calibration Date     | June 19, 2017        | May 24, 2017                | January 17, 2018     |
| Calibration Due Date | December 19, 2018    | November 24, 2018           | July 17, 2019        |

| Equipment            | BiConiLog Antenna | Double Ridged Guide Antenna | Biconical Antenna |
|----------------------|-------------------|-----------------------------|-------------------|
| Registration No.     | EW-3061           | EW-0194                     | EW-2512           |
| Manufacturer         | EMCO              | EMCO                        | EMCO              |
| Model No.            | 3142E             | 3115                        | 3104C             |
| Calibration Date     | November 02, 2017 | March 14, 2018              | August 06, 2018   |
| Calibration Due Date | November 02, 2018 | September 14, 2019          | February 06, 2020 |

| Equipment            | Active Loop H-field Antenna (9kHz to 30MHz) | RF CABLE (9kHz to 1000 MHz) | RF Pre-amplifier (9kHz to 40GHz) |
|----------------------|---------------------------------------------|-----------------------------|----------------------------------|
| Registration No.     | EW-2313                                     | EW-3170                     | EW-3006                          |
| Manufacturer         | ELETROMETRIC                                | UNBRANDED                   | SCHWARZBECK                      |
| Model No.            | EM-6876                                     | 9kHz to 1000MHz             | BBV 9718                         |
| Calibration Date     | March 08, 2018                              | May 11, 2018                | April 26, 2018                   |
| Calibration Due Date | September 08, 2019                          | May 11, 2019                | April 26, 2019                   |

#### 2) Bandedge Measurement and Frequency Stability Measurement

| Equipment            | Spectrum Analyzer | Temperature & Humidity Chamber |
|----------------------|-------------------|--------------------------------|
| Registration No.     | EW-3281           | EW-2134                        |
| Manufacturer         | ROHDESCHWARZ      | GIANT FORCE                    |
| Model No.            | FSV40             | GTH-750-40-CP-SD               |
| Calibration Date     | January 02, 2018  | September 04, 2018             |
| Calibration Due Date | January 02, 2019  | September 04, 2019             |

**END OF TEST REPORT**