



# FCC Test Report

Report No: FCS202408296W02

Issued for

|                                                                                                                                                                                                                                                                          |                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Applicant:                                                                                                                                                                                                                                                               | Xthings Industry llc                                  |
| Address:                                                                                                                                                                                                                                                                 | 32920 Alvarado-Niles Rd Ste 220, Union City, CA 94587 |
| Product Name:                                                                                                                                                                                                                                                            | Smart Face Recognition Terminal                       |
| Brand Name:                                                                                                                                                                                                                                                              | N/A                                                   |
| Model Name:                                                                                                                                                                                                                                                              | CX7                                                   |
| Series Model:                                                                                                                                                                                                                                                            | FacePass 7 Pro                                        |
| FCC ID:                                                                                                                                                                                                                                                                  | 2BKHH-CX7                                             |
| Issued By: Flux Compliance Service Laboratory<br>Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan<br>Tel: 769-27280901 Fax:769-27280901 <a href="http://www.fcs-lab.com">http://www.fcs-lab.com</a> |                                                       |

**TEST RESULT CERTIFICATION**

Applicant's Name.....: Xthings Industry llc  
Address.....: 32920 Alvarado-Niles Rd Ste 220, Union City, CA 94587  
Manufacture's Name.....: Xthings Industry llc  
Address.....: 32920 Alvarado-Niles Rd Ste 220, Union City, CA 94587

**Product Description**

Product Name.....: Smart Face Recognition Terminal  
Brand Name .....: N/A  
Model Name.....: CX7  
Series Model.....: FacePass 7 Pro  
Test Standards.....: FCC Rules and Regulations Part 15 Subpart C, Section 209  
Test Procedure.....: ANSI C63.10:2013

This device described above has been tested FCS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test.....:**

Date (s) of performance of tests.: Aug 21, 2024~Aug 26, 2024

Date of Issue.....: Aug 26, 2024

Test Result.....: Pass

Tested by

:

*Scott Shen*

(Scott Shen)

Reviewed by

:

*Duke Qian*

(Duke Qian)

Approved by

:

*Jack Wang*

(Jack Wang)

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**Revision History**

| Rev. | Issue Date   | Effect Page | Contents      |
|------|--------------|-------------|---------------|
| 00   | Aug 26, 2024 | All         | Initial Issue |
|      |              |             |               |

## 1. SUMMARY OF TEST RESULTS

| FCC Rules and Regulations Part 15 Subpart C, Section 209 |                            |          |        |
|----------------------------------------------------------|----------------------------|----------|--------|
| Standard Section                                         | Test Item                  | Judgment | Remark |
| 15.207                                                   | Conducted Emission         | PASS     | --     |
| 15.209(a) (f)                                            | Radiated Spurious Emission | PASS     | --     |
| 15.215(c)                                                | 20dB Bandwidth             | PASS     | --     |
| 15.203                                                   | Antenna Requirement        | PASS     | --     |

## NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10-2013

## 1.1 TEST FACTORY

|                                                                                                               |                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Company Name:                                                                                                 | Flux Compliance Service Laboratory                                                                               |
| Address:                                                                                                      | Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan |
| Telephone:                                                                                                    | +86-769-27280901                                                                                                 |
| Fax:                                                                                                          | +86-769-27280901                                                                                                 |
| FCC Test Firm Registration Number: 514908<br>Designation number: CN0127<br>A2LA accreditation number: 5545.01 |                                                                                                                  |

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %**.

| No. | Item                                      | Uncertainty   |
|-----|-------------------------------------------|---------------|
| 1   | RF output power, conducted                | $\pm 0.71$ dB |
| 2   | Unwanted Emissions, conducted             | $\pm 2.98$ dB |
| 3   | Conducted Emission (9KHz-150KHz)          | $\pm 4.13$ dB |
| 4   | Conducted Emission (150KHz-30MHz)         | $\pm 4.74$ dB |
| 5   | All emissions,radiated (9KHz -30MHz)      | $\pm 3.1$ dB  |
| 6   | All emissions,radiated(<1G) 30MHz-1000MHz | $\pm 3.2$ dB  |
| 7   | All emissions,radiated (1GHz -18GHz)      | $\pm 3.66$ dB |
| 8   | All emissions,radiated (18GHz -40GHz)     | $\pm 4.31$ dB |
| 9   | Occupied bandwidth                        | 4(%)          |

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF THE EUT

|                         |                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name            | Smart Face Recognition Terminal                                                                                                                                                                                          |
| Trade Name              | N/A                                                                                                                                                                                                                      |
| Model Name              | CX7                                                                                                                                                                                                                      |
| Series Model            | FacePass 7 Pro                                                                                                                                                                                                           |
| Model Difference        | The above product with same circuit, PCB layout, electrical parts, materials and wiring structures, Appearance shape, the materials of decorative accessories is same, the only difference is the model name and colour. |
| Channel List            | Please refer to the Note 2.                                                                                                                                                                                              |
| Operation frequency     | 125KHz                                                                                                                                                                                                                   |
| Modulation Type         | ASK                                                                                                                                                                                                                      |
| Antenna Type            | Coil Antenna                                                                                                                                                                                                             |
| Power Supply            | Input:100-240V~50/60Hz 0.8A Max.<br>Output:12.0V $\overline{\sim}$ 2.0A 24.0W                                                                                                                                            |
| Hardware version number | V1.0                                                                                                                                                                                                                     |
| Software version number | V1.0                                                                                                                                                                                                                     |
| Connecting I/O Port(s)  | Please refer to the User's Manual                                                                                                                                                                                        |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Operation frequency:125KHz
3. Table for Filed Antenna

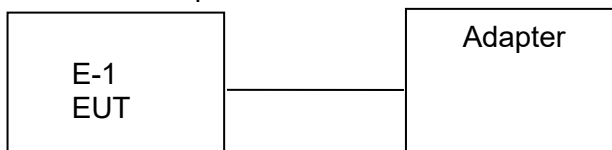
| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE    |
|------|-------|------------|--------------|-----------|------------|---------|
| 1    | N/A   | N/A        | Coil Antenna | N/A       | 0.0dBi     | Antenna |

## 2.2 DESCRIPTION OF THE TEST MODES

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

| Tested mode, Description |             |
|--------------------------|-------------|
| Mode                     | Description |
| Mode 1                   | TX Mode     |
|                          |             |

Mark:Only the worst data is recorded in the report.Mode 4 is the worst mode.



## 2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

### Necessary accessories

| Item | Equipment | Mfr/Brand                         | Model/Type No.  | Serial No. | Note     |
|------|-----------|-----------------------------------|-----------------|------------|----------|
| 1    | adapter   | Shenzhen ABP Technology Co., Ltd. | AB0301-1202000F | N/A        | Test use |
|      |           |                                   |                 |            |          |
|      |           |                                   |                 |            |          |

### Support units

| Item | Equipment | Mfr/Brand | Model/Type No. | Serial No. | Note |
|------|-----------|-----------|----------------|------------|------|
|      |           |           |                |            |      |
|      |           |           |                |            |      |
|      |           |           |                |            |      |
|      |           |           |                |            |      |

### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



## 2.4 EQUIPMENTS LIST

### Radiation Test equipment

| Kind of Equipment                | Manufacturer | Type No.     | Company No. | Last calibration | Calibrated until |
|----------------------------------|--------------|--------------|-------------|------------------|------------------|
| EMI Test Receiver                | R&S          | ESRP 3       | FCS-E001    | 2023.08.29       | 2024.08.28       |
| Signal Analyzer                  | R&S          | FSV40-N      | FCS-E012    | 2023.08.29       | 2024.08.28       |
| Active loop Antenna              | ZHINAN       | ZN30900C     | FCS-E013    | 2023.08.29       | 2024.08.28       |
| Bilog Antenna                    | SCHWARZBECK  | VULB 9168    | FCS-E002    | 2023.08.29       | 2024.08.28       |
| Horn Antenna                     | SCHWARZBECK  | BBHA 9120D   | FCS-E003    | 2023.08.29       | 2024.08.28       |
| SHF-EHF Horn Antenna (18G-40GHz) | A-INFO       | LB-180400-KF | FCS-E018    | 2023.08.29       | 2024.08.28       |
| Pre-Amplifier(0.1M-3G Hz)        | EMCI         | EM330N       | FCS-E004    | 2023.08.29       | 2024.08.28       |
| Pre-Amplifier (1G-18GHz)         | N/A          | TSAMP-0518SE | FCS-E014    | 2023.08.29       | 2024.08.28       |
| Pre-Amplifier (18G-40GHz)        | TERA-MW      | TRLA-0400    | FCS-E019    | 2023.08.29       | 2024.08.28       |
| Temperature & Humidity           | HTC-1        | victor       | FCS-E005    | 2023.08.29       | 2024.08.28       |

### Conduction Test equipment

| Kind of Equipment      | Manufacturer | Type No. | Company No. | Last calibration | Calibrated until |
|------------------------|--------------|----------|-------------|------------------|------------------|
| EMI Test Receiver      | R&S          | ESPI     | FCS-E020    | 2023.08.29       | 2024.08.28       |
| LISN                   | R&S          | ENV216   | FCS-E007    | 2023.08.29       | 2024.08.28       |
| LISN                   | ETS          | 3810/2NM | FCS-E009    | 2023.08.29       | 2024.08.28       |
| Temperature & Humidity | HTC-1        | victor   | FCS-E008    | 2023.08.29       | 2024.08.28       |

### RF Connected Test

| Kind of Equipment | Manufacturer | Type No. | Company No. | Last calibration | Calibrated until |
|-------------------|--------------|----------|-------------|------------------|------------------|
| Spectrum Analyzer | Keysight     | N9020A   | FCS-E015    | 2023.08.29       | 2024.08.28       |
| Spectrum Analyzer | Agilent      | E4447A   | MY50180039  | 2023.08.29       | 2024.08.28       |
| Spectrum Analyzer | R&S          | FSV-40   | 101499      | 2023.08.29       | 2024.08.28       |

### 3. RADIATED EMISSION MEASUREMENT

#### 3.1 LIMIT

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009mhz - 1000mhz)

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | 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                                |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- (5) 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 three bands are based on measurements employing an average detector.

### 3.2 TEST PROCEDURE

| Spectrum Parameter                    | Setting                         |
|---------------------------------------|---------------------------------|
| Attenuation                           | Auto                            |
| Detector                              | Peak/AV                         |
| Start Frequency                       | 1000 MHz(Peak/AV)               |
| Stop Frequency                        | 10th carrier hamonic(Peak/AV)   |
| RB / VB (emission in restricted band) | PK=1MHz / 1MHz, AV=1 MHz /10 Hz |

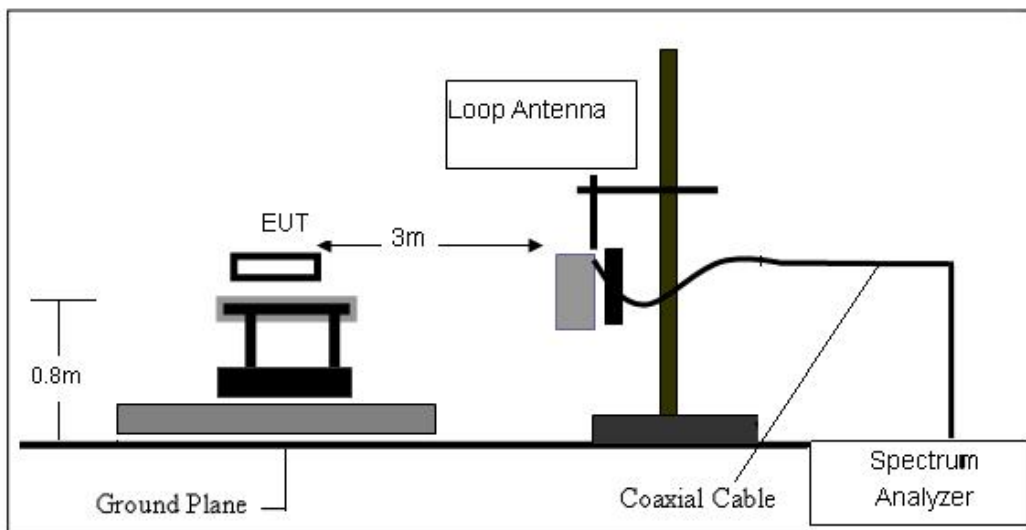
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

**Note:**

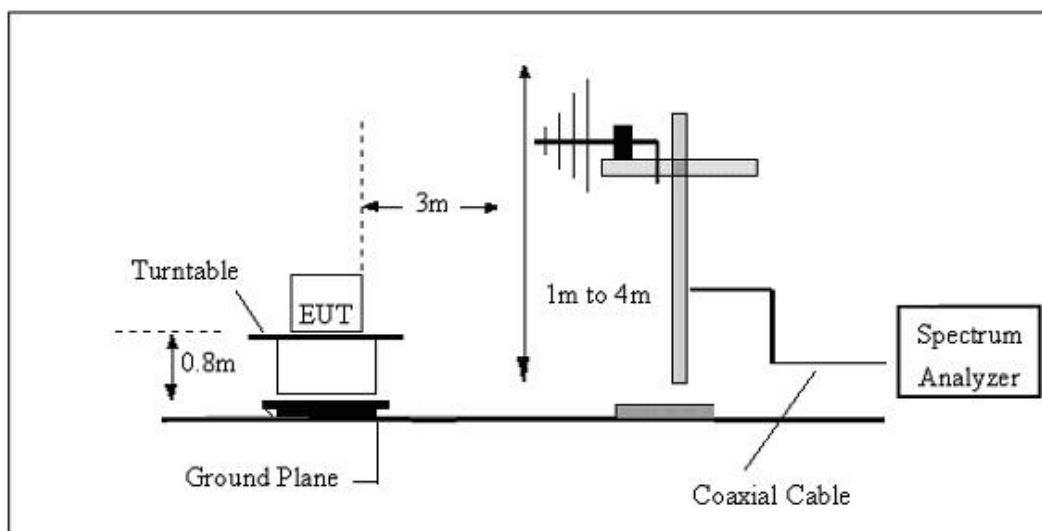
Both horizontal and vertical antenna polarities were tested. The worst case emissions were reported

### 3.3 TEST SETUP

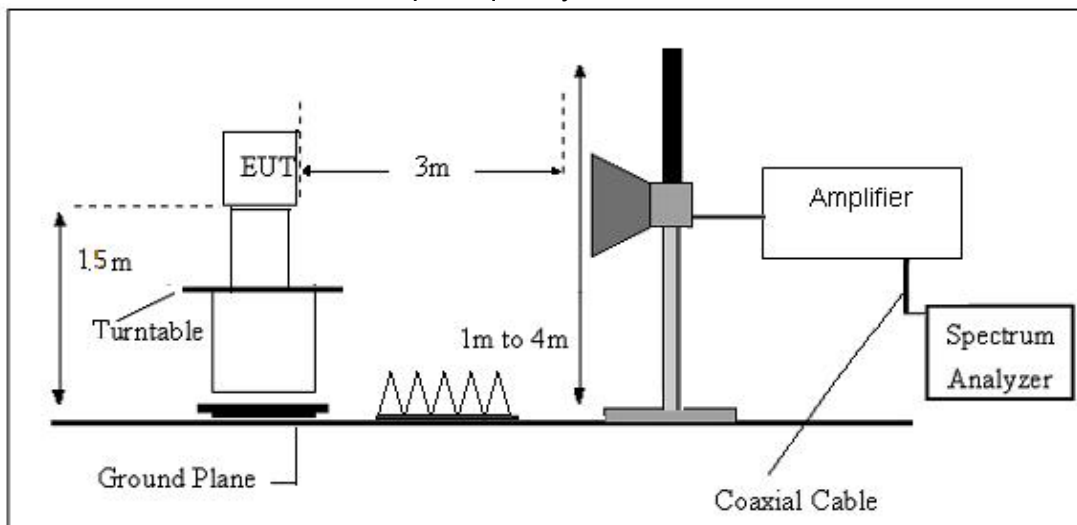
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



#### (C) Radiated Emission Test-Up Frequency Above 1GHz

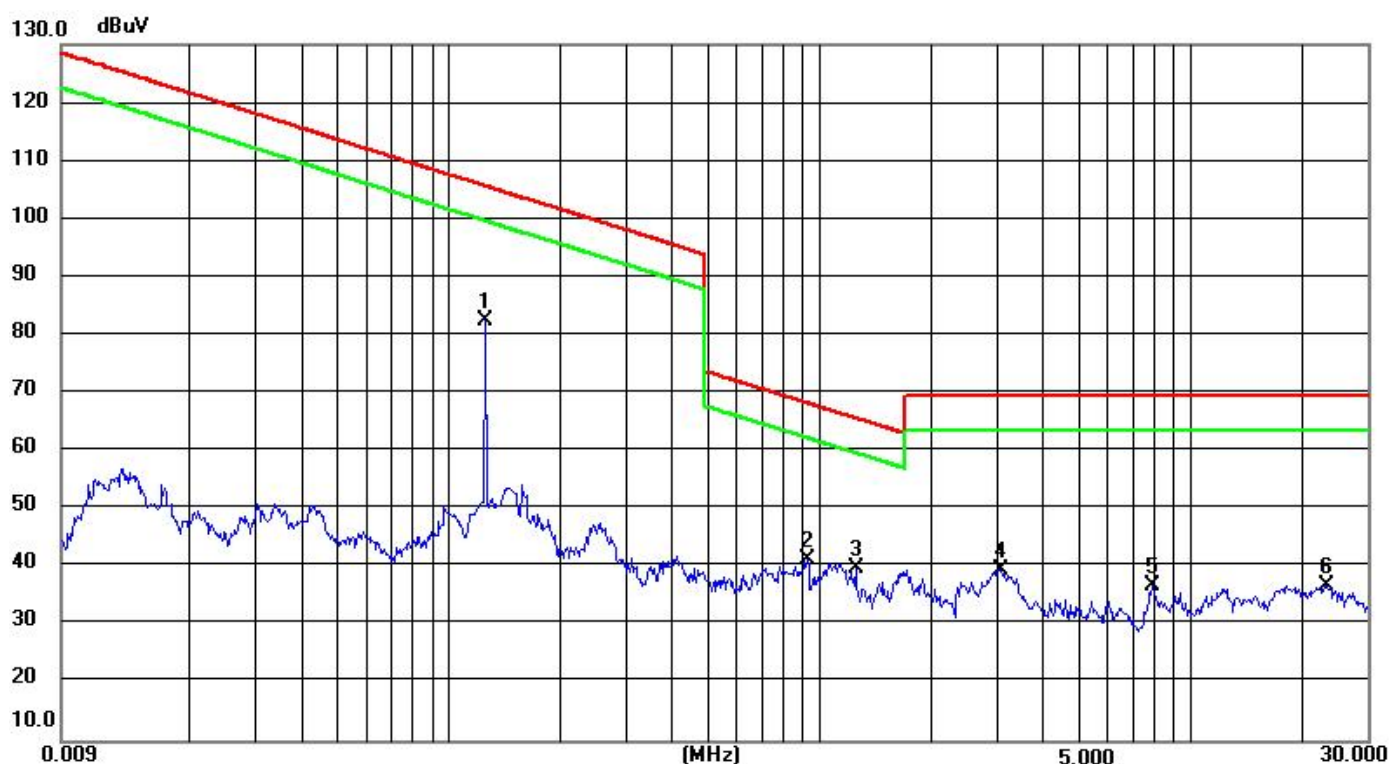


### 3.4 TEST RESULTS

For spurious emission

(9KHz-30MHz)

|               |        |                    |            |
|---------------|--------|--------------------|------------|
| Temperature:  | 23.7°C | Relative Humidity: | 61%        |
| Test Voltage: | DC 12V | Phase:             | Horizontal |
| Test Mode:    | Mode 1 |                    |            |



| No. | Frequency (MHz) | Reading (dBuV) | Correction (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------|-----------------|----------------|-------------|--------|
| 1   | 0.1255          | 87.84          | -5.32             | 82.52           | 105.63         | -23.11      | Peak   |
|     | 0.1255          | 86.12          | -5.13             | 80.99           | 105.63         | -24.64      | AVG    |
| 2   | 0.9242          | 46.68          | -5.24             | 41.44           | 68.27          | -26.83      | QP     |
| 3   | 1.2478          | 45.64          | -5.88             | 39.76           | 65.69          | -25.93      | QP     |
| 4   | 3.0703          | 43.74          | -4.12             | 39.62           | 69.50          | -29.88      | QP     |
| 5   | 7.8676          | 41.20          | -4.36             | 36.84           | 69.50          | -32.66      | QP     |
| 6   | 23.1413         | 41.48          | -4.59             | 36.89           | 69.50          | -32.61      | QP     |

(30MHZ-1000MHZ)

|               |        |                    |            |
|---------------|--------|--------------------|------------|
| Temperature:  | 23.7°C | Relative Humidity: | 61%        |
| Test Voltage: | DC 12V | Phase:             | Horizontal |
| Test Mode:    | Mode 1 |                    |            |

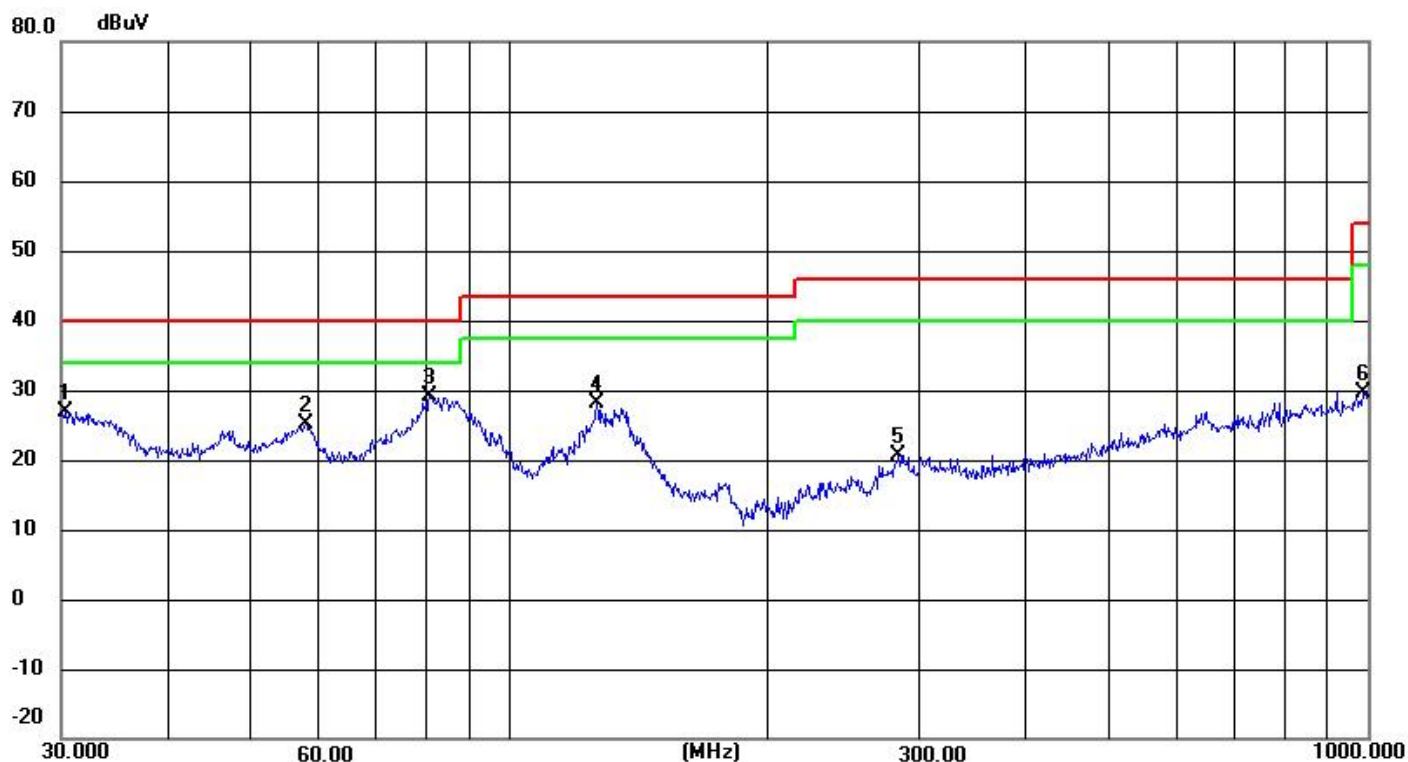


| No. | Frequency (MHz) | Reading (dBuV) | Correction (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------|-----------------|----------------|-------------|--------|
| 1   | 33.9174         | 30.76          | -9.82             | 20.94           | 40.00          | -19.06      | QP     |
| 2   | 84.1100         | 57.73          | -32.17            | 25.56           | 40.00          | -14.44      | QP     |
| 3   | 121.5486        | 64.87          | -32.17            | 32.70           | 43.50          | -10.80      | QP     |
| 4   | 285.9778        | 61.69          | -31.92            | 29.77           | 46.00          | -16.23      | QP     |
| 5   | 651.9417        | 57.85          | -31.05            | 26.80           | 46.00          | -19.20      | QP     |
| 6   | 1000.0000       | 62.14          | -30.60            | 31.54           | 54.00          | -22.46      | QP     |

Remarks:

1. Final Level =Receiver Read level + Factor

|               |        |                    |          |
|---------------|--------|--------------------|----------|
| Temperature:  | 22.7°C | Relative Humidity: | 61%      |
| Test Voltage: | DC 12V | Phase:             | Vertical |
| Test Mode:    | Mode 1 |                    |          |



| No. | Frequency (MHz) | Reading (dBuV) | Correction (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-------------------|-----------------|----------------|-------------|--------|
| 1   | 30.3173         | 34.38          | -7.39             | 26.99           | 40.00          | -13.01      | QP     |
| 2   | 57.7962         | 45.55          | -20.42            | 25.13           | 40.00          | -14.87      | QP     |
| 3   | 80.6442         | 61.28          | -32.16            | 29.12           | 40.00          | -10.88      | QP     |
| 4   | 126.3286        | 60.18          | -32.16            | 28.02           | 43.50          | -15.48      | QP     |
| 5   | 283.9791        | 52.58          | -31.92            | 20.66           | 46.00          | -25.34      | QP     |
| 6   | 986.0717        | 60.15          | -30.61            | 29.54           | 54.00          | -24.46      | QP     |

Remarks:

1. Final Level =Receiver Read level + Factor

## 4. 20 DB BANDWIDTH TEST

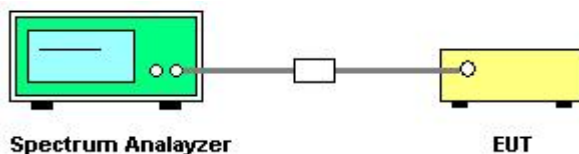
### 4.1 LIMIT

According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation

### 4.2 TEST PROCEDURE

- Check the calibration of the measuring instrument using either an internal calibrator or a
- known signal from an external generator
  - Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
  - Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

### 4.3 TEST SETUP

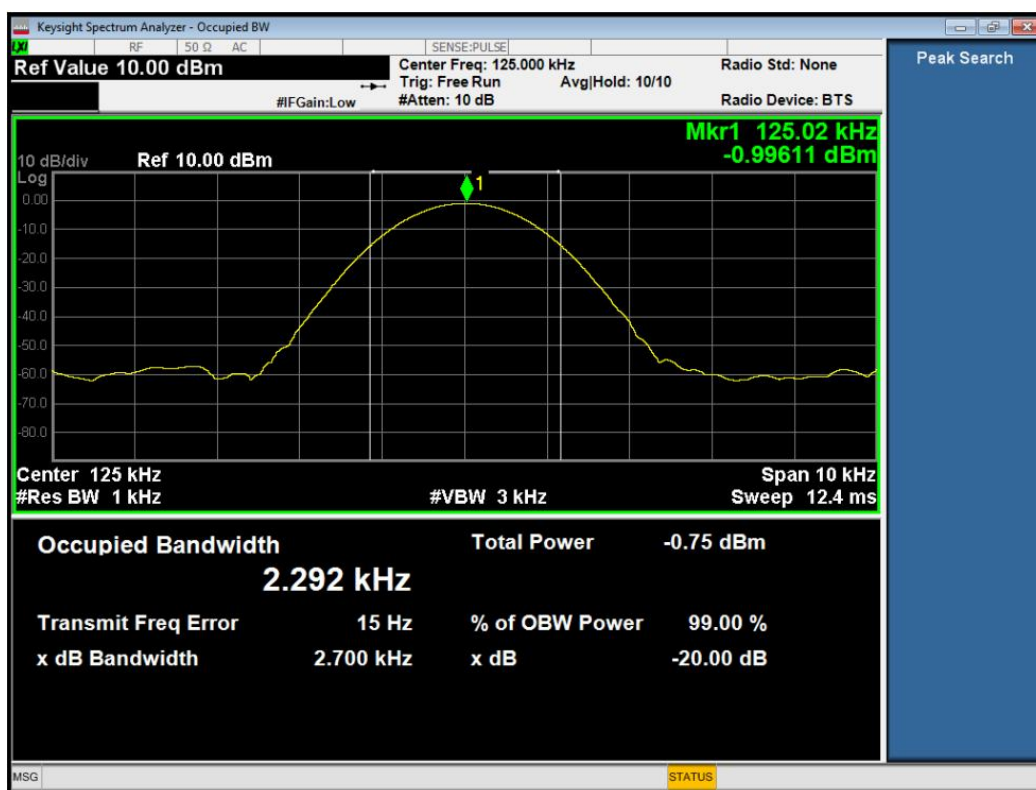




#### 4.4 TEST RESULTS

|              |        |                    |        |
|--------------|--------|--------------------|--------|
| Temperature: | 25°C   | Relative Humidity: | 50%    |
| Test Mode:   | Mode 1 | Test Voltage:      | DC 12V |

| Frequency (KHz) | 20dB Bandwidth (KHz) | Result |
|-----------------|----------------------|--------|
| 125             | 2.7                  | PASS   |



## 5. CONDUCTED EMISSION MEASUREMENT

### 5.1 LIMIT

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

| FREQUENCY (MHz) | Conducted Emissionlimit (dBuV) |           |
|-----------------|--------------------------------|-----------|
|                 | Quasi-peak                     | Average   |
| 0.15 -0.5       | 66 - 56 *                      | 56 - 46 * |
| 0.50 -5.0       | 56.00                          | 46.00     |
| 5.0 -30.0       | 60.00                          | 50.00     |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

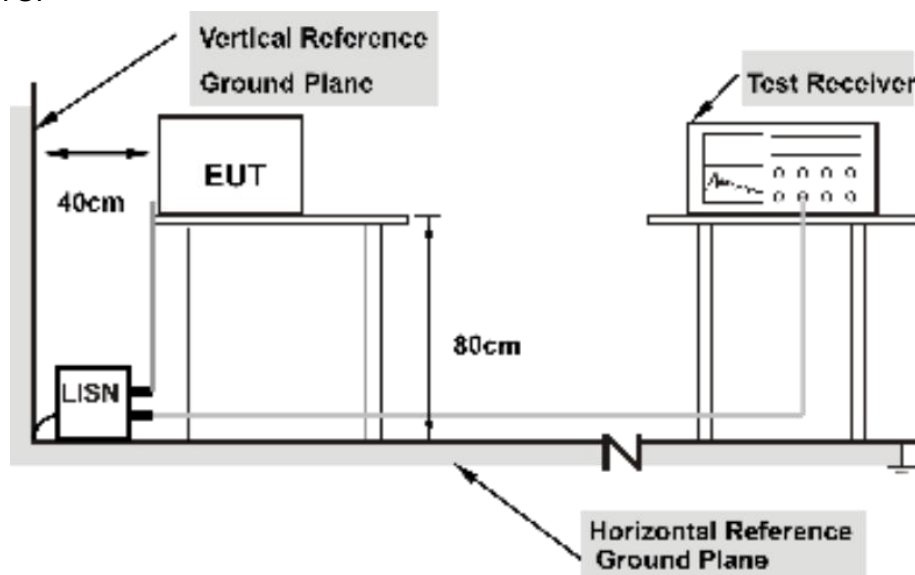
### 5.2 TEST PROCEDURE

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

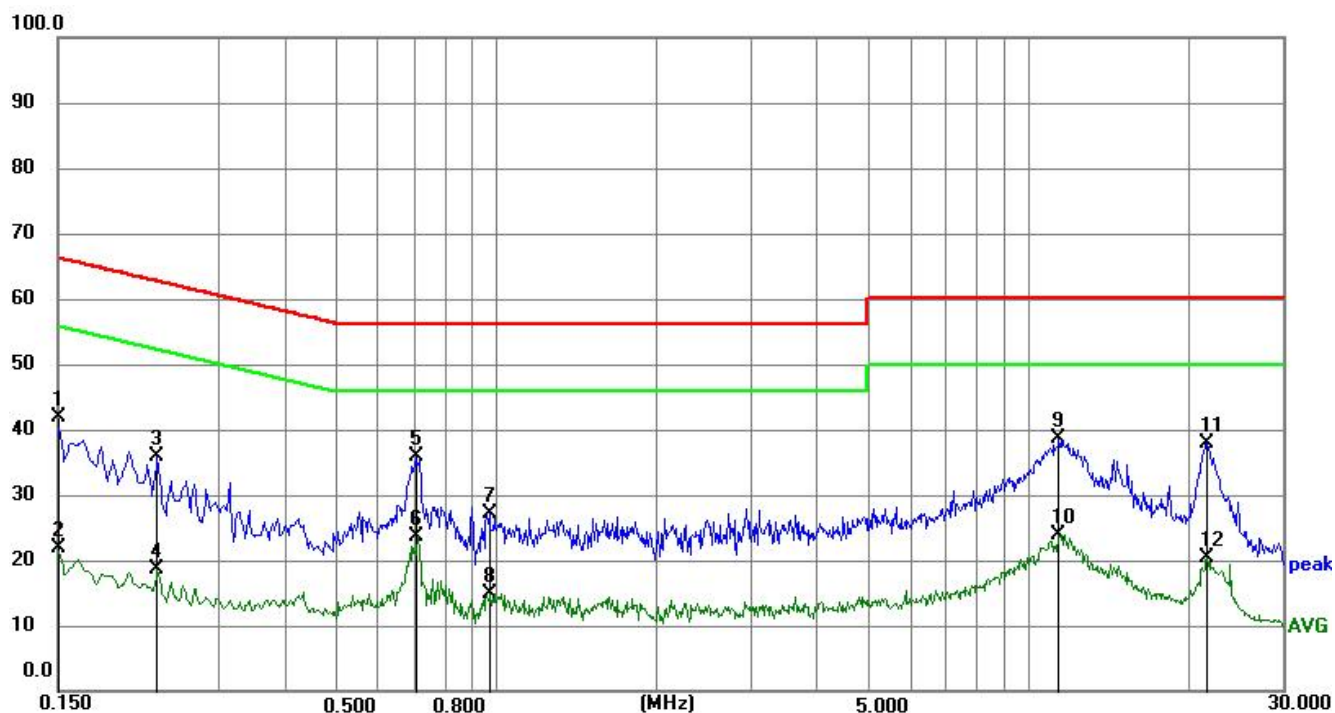
### 5.3 TEST SETUP



- Note: 1.Support units were connected to second LISN.  
 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

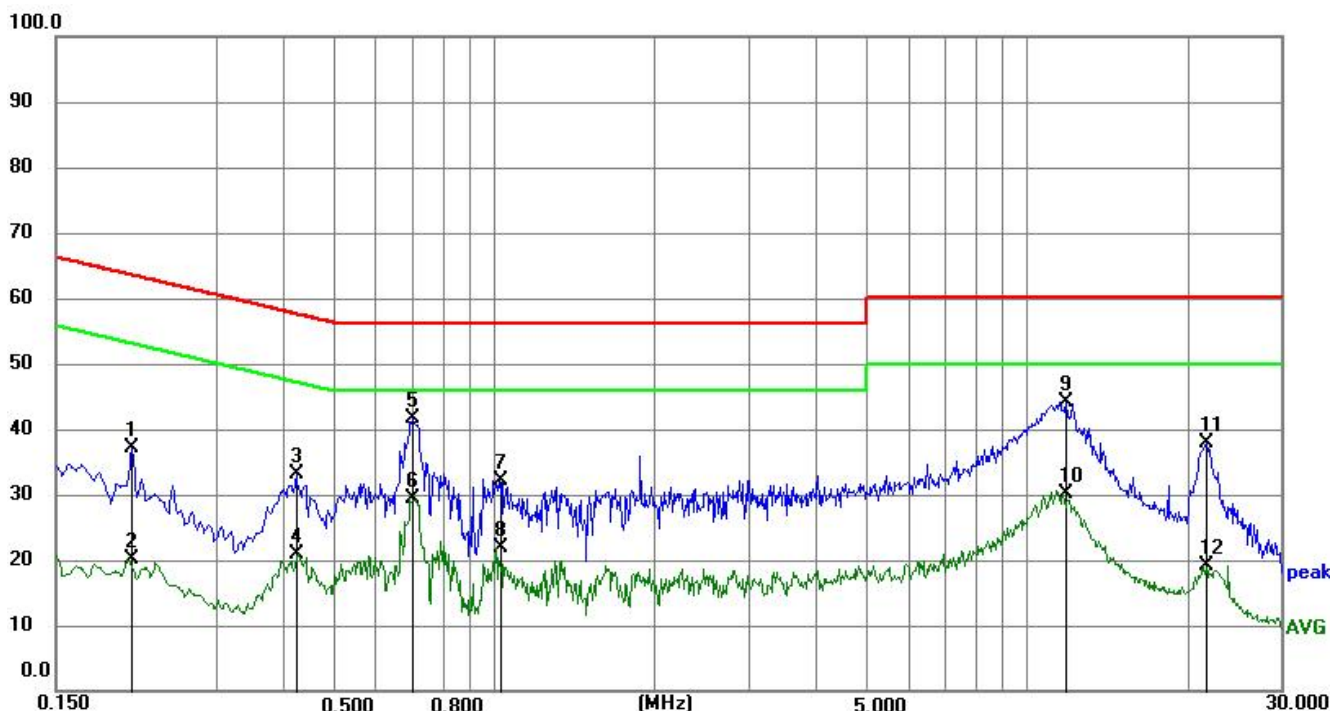
## 5.4 TEST RESULTS

|              |        |                    |                                  |
|--------------|--------|--------------------|----------------------------------|
| Temperature: | 25°C   | Relative Humidity: | 50%                              |
| Test Mode:   | Mode 1 | Test Voltage:      | DC 12V from adapter AC 120V/60Hz |
| Result:      | L      | Result:            | Pass                             |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1   | 0.1500             | 31.72             | 10.08                 | 41.80            | 66.00           | 24.20          | QP     |
| 2   | 0.1500             | 11.92             | 10.08                 | 22.00            | 56.00           | 34.00          | AVG    |
| 3   | 0.2310             | 25.72             | 10.05                 | 35.77            | 62.41           | 26.64          | QP     |
| 4   | 0.2310             | 8.56              | 10.05                 | 18.61            | 52.41           | 33.80          | AVG    |
| 5   | 0.7077             | 25.88             | 9.98                  | 35.86            | 56.00           | 20.14          | QP     |
| 6   | 0.7077             | 13.54             | 9.98                  | 23.52            | 46.00           | 22.48          | AVG    |
| 7   | 0.9734             | 17.20             | 9.99                  | 27.19            | 56.00           | 28.81          | QP     |
| 8   | 0.9734             | 4.91              | 9.99                  | 14.90            | 46.00           | 31.10          | AVG    |
| 9   | 11.3864            | 28.85             | 9.81                  | 38.66            | 60.00           | 21.34          | QP     |
| 10  | 11.3864            | 14.02             | 9.81                  | 23.83            | 50.00           | 26.17          | AVG    |
| 11  | 21.6780            | 27.95             | 9.99                  | 37.94            | 60.00           | 22.06          | QP     |
| 12  | 21.6780            | 10.30             | 9.99                  | 20.29            | 50.00           | 29.71          | AVG    |

|              |        |                    |                                  |
|--------------|--------|--------------------|----------------------------------|
| Temperature: | 25°C   | Relative Humidity: | 50%                              |
| Test Mode:   | Mode 1 | Test Voltage:      | DC 12V from adapter AC 120V/60Hz |
| Result:      | N      | Result:            | Pass                             |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1   | 0.2084             | 27.12             | 10.07                 | 37.19            | 63.27           | 26.08          | QP     |
| 2   | 0.2084             | 10.02             | 10.07                 | 20.09            | 53.27           | 33.18          | AVG    |
| 3   | 0.4243             | 23.04             | 10.02                 | 33.06            | 57.36           | 24.30          | QP     |
| 4   | 0.4243             | 10.79             | 10.02                 | 20.81            | 47.36           | 26.55          | AVG    |
| 5   | 0.7034             | 31.69             | 9.98                  | 41.67            | 56.00           | 14.33          | QP     |
| 6   | 0.7034             | 19.33             | 9.98                  | 29.31            | 46.00           | 16.69          | AVG    |
| 7   | 1.0227             | 22.20             | 10.00                 | 32.20            | 56.00           | 23.80          | QP     |
| 8   | 1.0227             | 11.81             | 10.00                 | 21.81            | 46.00           | 24.19          | AVG    |
| 9   | 11.8680            | 34.38             | 9.80                  | 44.18            | 60.00           | 15.82          | QP     |
| 10  | 11.8680            | 20.32             | 9.80                  | 30.12            | 50.00           | 19.88          | AVG    |
| 11  | 21.7905            | 27.96             | 9.94                  | 37.90            | 60.00           | 22.10          | QP     |
| 12  | 21.7905            | 9.22              | 9.94                  | 19.16            | 50.00           | 30.84          | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values
2. During the test, pre-scan all modes, only the worst case is recorded in the report. AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/60Hz modes, recorded worst case AC 120V/60Hz.

## 6. ANTENNA REQUIREMENT

### 6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

### 6.2 EUT ANTENNA

The antennas used for this product is Coil Antenna and no other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 0.0dBi.

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*