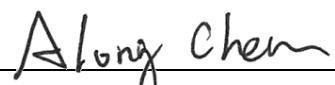


# FCC C2PC Test Report

**FCC ID** : O6ZHXQX1AM0S  
**Equipment** : 8-Channel LoRa Module  
**Model No.** : HXQX1AM0S  
**Brand Name** : machineQ  
**Applicant** : Humax Co., Ltd.  
**Address** : HUMAX BLDG., 2, HUMAX BLDG., 2,  
Yeongmun-ro, Cheoin-gu, Yongin-si,  
Gyeonggi-do, South Korea, 17040  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Mar. 05, 2019  
**Tested Date** : Mar. 07 ~ Mar. 14, 2019

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

  
Along Chen / Assistant Manager

Approved by:

  
Gary Chang / Manager



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## Release Record

| Report No.  | Version | Description   | Issued Date   |
|-------------|---------|---------------|---------------|
| FR782401-10 | Rev. 01 | Initial issue | Mar. 26, 2019 |

## Summary of Test Results

| FCC Rules           | Test Items          | Measured                                                 | Result |
|---------------------|---------------------|----------------------------------------------------------|--------|
| 15.207              | Conducted Emissions | [dBuV]: 0.350MHz<br>39.09 (Margin -9.87dB) - AV          | Pass   |
| 15.247(d)<br>15.209 | Radiated Emissions  | [dBuV/m at 3m]: 108.48MHz<br>42.05 (Margin -1.45dB) - QP | Pass   |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared values of gain for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of the gain.

# 1 General Description

## 1.1 Information

This is a Class II Permissive Change report (C2PC).

This report is issued as a supplementary report to original ICC report no. FR782401-07.

The difference is concerned with following items:

- ✧ Modification of PCB and components of non-RF section for ESD, Ethernet Port Surge and LED circuit Improvement and GPIO circuit.
- ✧ Remove matching circuit and replace by band pass filter on Lora external antenna area
- ✧ Lora External antenna connector location is moved out 3.15 mm
- ✧ Having longer screw post on heat sink for WiFi
- ✧ Remove an adapter (Brand name: PHIHONG, Model name: PSAC24A-120L6)

Conducted emission and radiated emission tests had been re-tested and presented in following sections.

### 1.1.1 Specification of the Equipment under Test (EUT)

| RF General Information                                                           |                 |                |                     |               |                         |
|----------------------------------------------------------------------------------|-----------------|----------------|---------------------|---------------|-------------------------|
| Frequency Range (MHz)                                                            | Ch. Freq. (MHz) | Channel Number | Data Rate (bit/sec) | Spread Factor | Channel Bandwidth (kHz) |
| 902 ~ 928                                                                        | 923.3 ~ 927.5   | 1 ~ 8 [8]      | 980 ~ 21900         | 12 ~ 7        | 500                     |
| Note 1: RF output power specifies that Maximum Conducted (Average) Output Power. |                 |                |                     |               |                         |
| Note 2: The device uses CSS modulation.                                          |                 |                |                     |               |                         |

### 1.1.2 Antenna Details

| Ant. No. | Model                   | Type     | Gain (dBi) | Connector | Remark        |
|----------|-------------------------|----------|------------|-----------|---------------|
| 1        | CON 1                   | PIFA     | 3.76       | UFL       | Wi-Fi Antenna |
| 2        | CON 2                   | PIFA     | 3.86       | UFL       | Wi-Fi Antenna |
| 3        | LoRa antenna (External) | Dipole   | 0.96       | SMA       | Lora Antenna  |
| 4        | LoRa antenna (Internal) | Monopole | 1.02       | UFL       | Lora Antenna  |

### 1.1.3 Information of Host

|              |                        |
|--------------|------------------------|
| Brand Name   | machineQ               |
| Product name | 8-Channel LoRa Gateway |
| Model name   | HXQX1AM0S              |
| FCC ID       | O6ZHLC0000             |

### 1.1.4 Power Supply Type of Equipment under Test (EUT)

|                   |                    |
|-------------------|--------------------|
| Power Supply Type | 12Vdc from adapter |
|-------------------|--------------------|

### 1.1.5 Accessories

| Accessories |            |                                                                                                                                                                    |
|-------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No.         | Equipment  | Description                                                                                                                                                        |
| 1           | AC adapter | Brand Name: machineQ<br>Model Name: WB-24J12FU<br>Power Rating:<br>I/P: 100-240Vac, 50-60Hz, 0.7A Max<br>O/P: 12Vdc, 2A<br>DC 1.2m non-shielded cable without core |
| 2           | RJ45 cable | 1m non-shielded cable without core                                                                                                                                 |

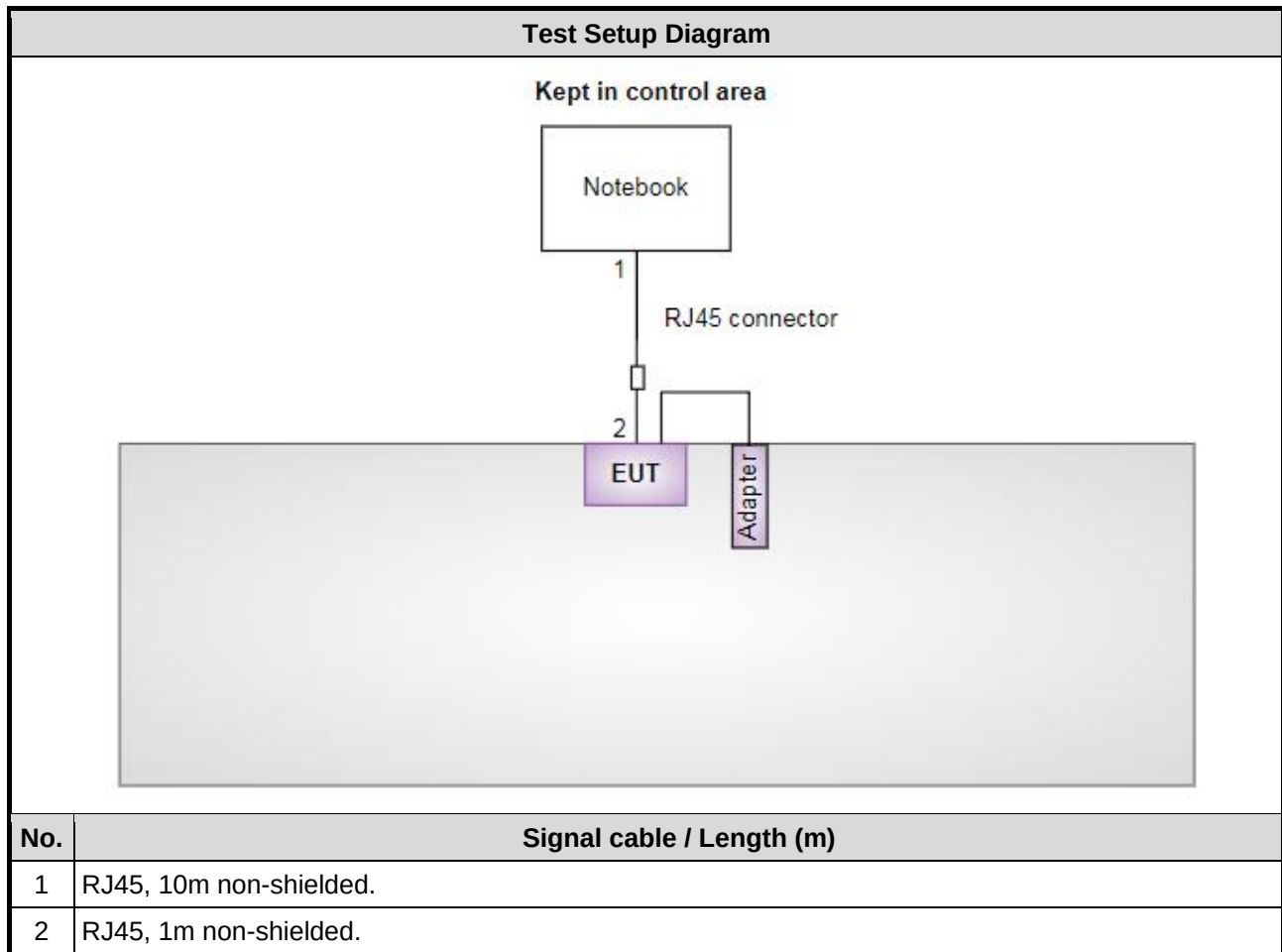
### 1.1.6 Channel List

| Channel | Frequency(MHz) |
|---------|----------------|
| 1       | 923.3          |
| 2       | 923.9          |
| 3       | 924.5          |
| 4       | 925.1          |
| 5       | 925.7          |
| 6       | 926.3          |
| 7       | 926.9          |
| 8       | 927.5          |

## 1.2 Local Support Equipment List

| Support Equipment List |           |       |                |        |         |
|------------------------|-----------|-------|----------------|--------|---------|
| No.                    | Equipment | Brand | Model          | FCC ID | Remarks |
| 1                      | Notebook  | DELL  | Latitude E5470 | DoC    | ---     |

## 1.3 Test Setup Chart



## 1.4 The Equipment List

|                      |                               |                  |                   |                         |                          |
|----------------------|-------------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>     | Conducted Emission            |                  |                   |                         |                          |
| <b>Test Site</b>     | Conduction room 1 / (CO01-WS) |                  |                   |                         |                          |
| <b>Tested Date</b>   | Mar. 14, 2019                 |                  |                   |                         |                          |
| <b>Instrument</b>    | <b>Manufacturer</b>           | <b>Model No.</b> | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Receiver             | R&S                           | ESR3             | 101657            | Jan. 08, 2019           | Jan. 07, 2020            |
| LISN                 | SCHWARZBECK                   | Schwarzbeck 8127 | 8127-667          | Nov. 05, 2018           | Nov. 04, 2019            |
| RF Cable-CON         | Woken                         | CFD200-NL        | CFD200-NL-001     | Oct. 23, 2018           | Oct. 23, 2019            |
| Measurement Software | AUDIX                         | e3               | 6.120210k         | NA                      | NA                       |

Note: Calibration Interval of instruments listed above is one year.

|                      |                             |                   |                     |                         |                          |
|----------------------|-----------------------------|-------------------|---------------------|-------------------------|--------------------------|
| <b>Test Item</b>     | Radiated Emission           |                   |                     |                         |                          |
| <b>Test Site</b>     | 966 chamber 3 / (03CH03-WS) |                   |                     |                         |                          |
| <b>Tested Date</b>   | Mar. 07 ~ Mar. 08, 2019     |                   |                     |                         |                          |
| <b>Instrument</b>    | <b>Manufacturer</b>         | <b>Model No.</b>  | <b>Serial No.</b>   | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Spectrum Analyzer    | R&S                         | FSV40             | 101499              | Jan. 07, 2019           | Jan. 06, 2020            |
| Receiver             | R&S                         | ESR3              | 101658              | Dec. 11, 2018           | Dec. 10, 2019            |
| Bilog Antenna        | SCHWARZBECK                 | VULB9168          | VULB9168-685        | Apr. 19, 2018           | Apr. 18, 2019            |
| Horn Antenna 1G-18G  | SCHWARZBECK                 | BBHA 9120 D       | BBHA 9120 D 1206    | Jan. 07, 2019           | Jan. 06, 2020            |
| Horn Antenna 18G-40G | SCHWARZBECK                 | BBHA 9170         | BBHA 9170517        | Nov. 15, 2018           | Nov. 14, 2019            |
| Loop Antenna         | R&S                         | HFH2-Z2           | 100330              | Nov. 09, 2018           | Nov. 08, 2019            |
| Loop Antenna Cable   | KOAX KABEL                  | 101354-BW         | 101354-BW           | Oct. 08, 2018           | Oct. 07, 2019            |
| Preamplifier         | EMC                         | EMC02325          | 980187              | Aug. 24, 2018           | Aug. 23, 2019            |
| Preamplifier         | Agilent                     | 83017A            | MY53270014          | Aug. 09, 2018           | Aug. 08, 2019            |
| Preamplifier         | EMC                         | EMC184045B        | 980192              | Aug. 09, 2018           | Aug. 08, 2019            |
| RF cable-3M          | HUBER+SUHNER                | SUCOFLEX104       | MY22620/4           | Oct. 01, 2018           | Sep. 30, 2019            |
| RF cable-8M          | EMC                         | EMC104-SM-SM-8000 | 181107              | Oct. 01, 2018           | Sep. 30, 2019            |
| RF cable-1M          | HUBER+SUHNER                | SUCOFLEX104       | MY22624/4           | Oct. 01, 2018           | Sep. 30, 2019            |
| LF cable-0.8M        | EMC                         | EMC8D-NM-NM-800   | EMC8D-NM-NM-800-001 | Oct. 01, 2018           | Sep. 30, 2019            |
| LF cable-3M          | EMC                         | EMC8D-NM-NM-3000  | 131103              | Oct. 01, 2018           | Sep. 30, 2019            |
| LF cable-13M         | EMC                         | EMC8D-NM-NM-13000 | 131104              | Oct. 01, 2018           | Sep. 30, 2019            |
| Measurement Software | AUDIX                       | e3                | 6.120210g           | NA                      | NA                       |

Note: Calibration Interval of instruments listed above is one year.

## 1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05r01

## 1.6 Deviation from Test Standard and Measurement Procedure

None

## 1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

| Measurement Uncertainty  |             |
|--------------------------|-------------|
| Parameters               | Uncertainty |
| AC conducted emission    | ±2.92 dB    |
| Radiated emission ≤ 1GHz | ±3.96 dB    |
| Radiated emission > 1GHz | ±4.51 dB    |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By |
|--------------------|-----------|-------------------|-----------|
| AC Conduction      | CO01-WS   | 23°C / 65%        | Alex Tsai |
| Radiated Emissions | 03CH03-WS | 20-21°C / 66%     | Roger Lu  |

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- IC site registration No.: 10807C-1

### 2.2 The Worst Test Modes and Channel Details

| Test item                                            | Test Frequency (MHz) | Channel Bandwidth (kHz) | Modulation / SF | Test Configuration |
|------------------------------------------------------|----------------------|-------------------------|-----------------|--------------------|
| Conducted Emissions                                  | 923.3 / 927.5        | 500                     | CSS / 12        | ---                |
| Radiated Emissions ≤1GHz<br>Radiated Emissions >1GHz | 923.3 / 927.5        | 500                     | CSS / 12        | ---                |

**NOTE:**

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

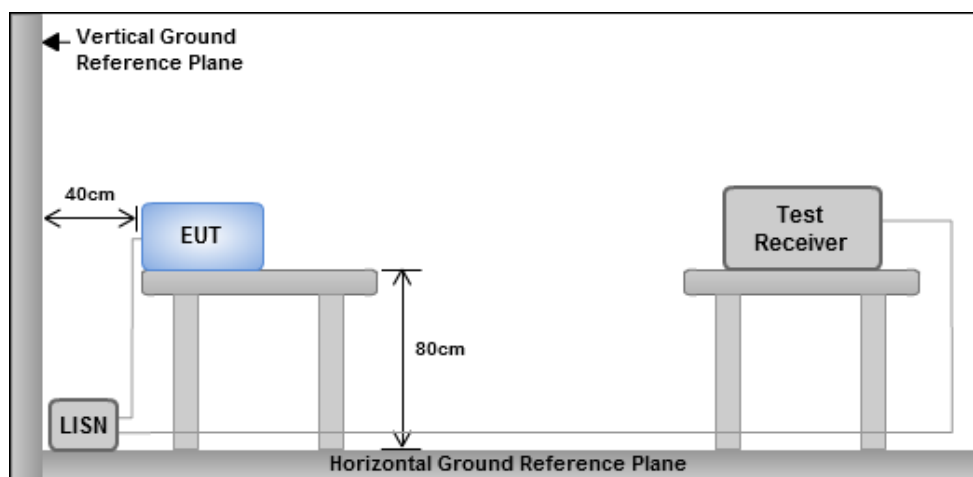
| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                      | 60         | 50        |

Note 1: \* Decreases with the logarithm of the frequency.

##### 3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

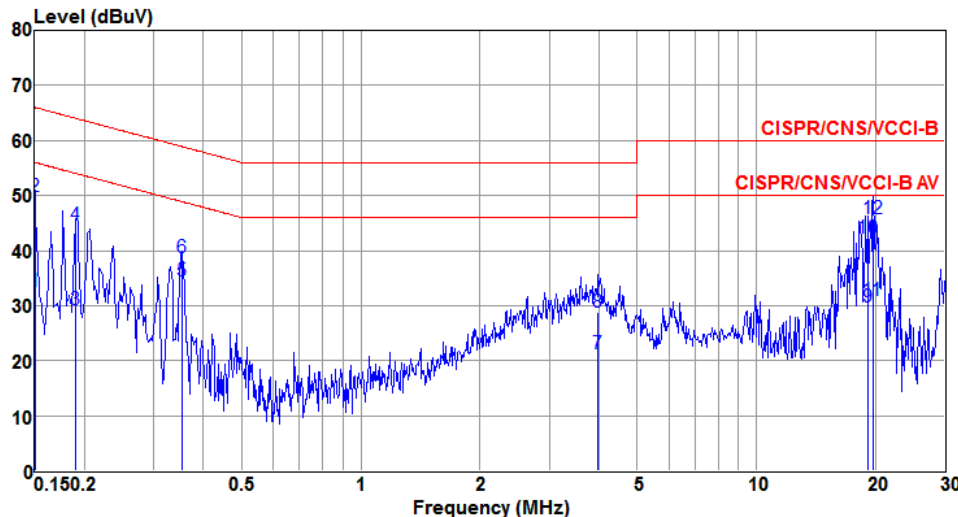
##### 3.1.3 Test Setup



- 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

### 3.1.4 Test Result of Conducted Emissions

|                 |          |                  |       |
|-----------------|----------|------------------|-------|
| Modulation / SF | CSS / 12 | Test Freq. (MHz) | 923.3 |
| Power Phase     | Line     |                  |       |

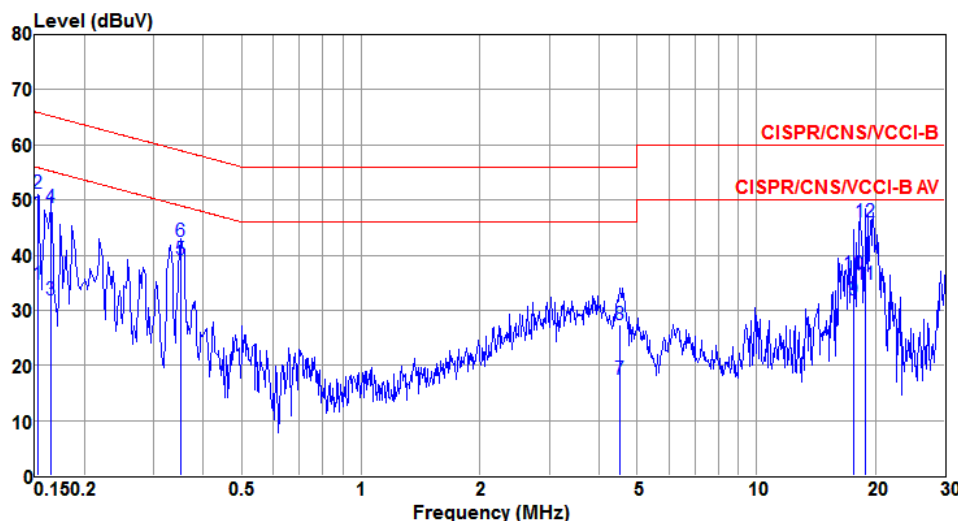


| Freq | Level  | Limit | Over  | Read   | LISN   | cable |        |         |
|------|--------|-------|-------|--------|--------|-------|--------|---------|
| MHz  | dBuV   | Line  | Limit | Level  | factor | loss  | Remark |         |
|      |        | dBuV  | dB    | dBuV   | dB     | dB    |        |         |
| 1    | 0.150  | 32.55 | 56.00 | -23.45 | 32.31  | 0.07  | 0.05   | Average |
| 2    | 0.150  | 49.80 | 66.00 | -16.20 | 49.56  | 0.07  | 0.05   | QP      |
| 3    | 0.189  | 29.18 | 54.06 | -24.88 | 28.87  | 0.06  | 0.07   | Average |
| 4    | 0.189  | 44.65 | 64.06 | -19.41 | 44.34  | 0.06  | 0.07   | QP      |
| 5    | 0.354  | 34.40 | 48.87 | -14.47 | 34.01  | 0.06  | 0.08   | Average |
| 6    | 0.354  | 38.61 | 58.87 | -20.26 | 38.22  | 0.06  | 0.08   | QP      |
| 7    | 3.985  | 21.28 | 46.00 | -24.72 | 20.51  | 0.11  | 0.28   | Average |
| 8    | 3.985  | 28.90 | 56.00 | -27.10 | 28.13  | 0.11  | 0.28   | QP      |
| 9    | 19.122 | 29.77 | 50.00 | -20.23 | 28.35  | 0.24  | 0.59   | Average |
| 10   | 19.122 | 42.32 | 60.00 | -17.68 | 40.90  | 0.24  | 0.59   | QP      |
| 11   | 19.740 | 30.95 | 50.00 | -19.05 | 29.50  | 0.24  | 0.60   | Average |
| 12*  | 19.740 | 45.85 | 60.00 | -14.15 | 44.40  | 0.24  | 0.60   | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|                 |          |                  |       |
|-----------------|----------|------------------|-------|
| Modulation / SF | CSS / 12 | Test Freq. (MHz) | 923.3 |
| Power Phase     | Neutral  |                  |       |

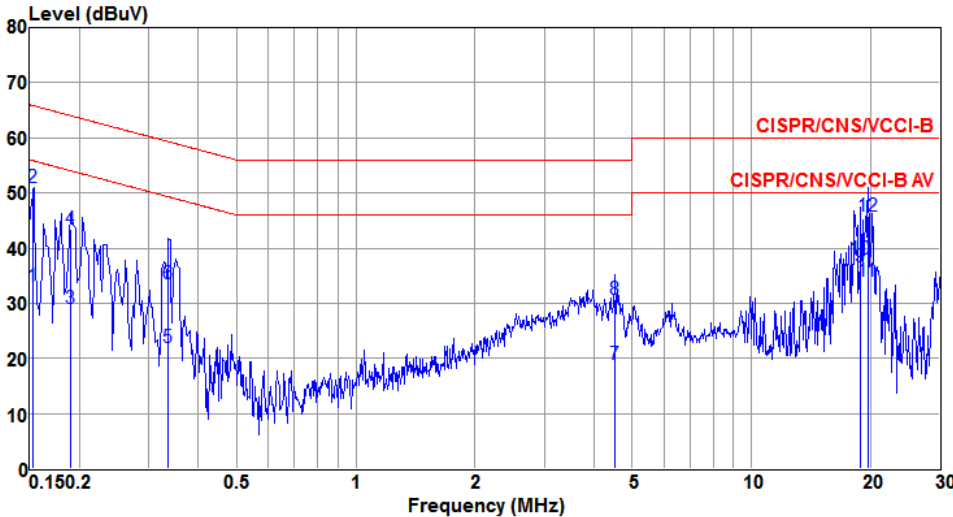


| Freq | Level  | Limit | Over  | Read   | LISN   | cable | Remark |         |
|------|--------|-------|-------|--------|--------|-------|--------|---------|
| MHz  | dBuV   | dBuV  | Limit | Level  | factor | loss  |        |         |
|      |        |       | dB    | dBuV   | dB     | dB    |        |         |
| 1    | 0.152  | 34.59 | 55.87 | -21.28 | 34.38  | 0.05  | 0.05   | Average |
| 2    | 0.152  | 51.18 | 65.87 | -14.69 | 50.97  | 0.05  | 0.05   | QP      |
| 3    | 0.165  | 31.93 | 55.21 | -23.28 | 31.70  | 0.05  | 0.06   | Average |
| 4    | 0.165  | 48.72 | 65.21 | -16.49 | 48.49  | 0.05  | 0.06   | QP      |
| 5*   | 0.350  | 39.09 | 48.96 | -9.87  | 38.84  | 0.05  | 0.08   | Average |
| 6    | 0.350  | 42.60 | 58.96 | -16.36 | 42.35  | 0.05  | 0.08   | QP      |
| 7    | 4.501  | 17.42 | 46.00 | -28.58 | 16.76  | 0.10  | 0.30   | Average |
| 8    | 4.501  | 27.43 | 56.00 | -28.57 | 26.77  | 0.10  | 0.30   | QP      |
| 9    | 17.661 | 31.82 | 50.00 | -18.18 | 30.59  | 0.25  | 0.58   | Average |
| 10   | 17.661 | 36.59 | 60.00 | -23.41 | 35.36  | 0.25  | 0.58   | QP      |
| 11   | 18.920 | 34.69 | 50.00 | -15.31 | 33.42  | 0.25  | 0.59   | Average |
| 12   | 18.920 | 46.07 | 60.00 | -13.93 | 44.80  | 0.25  | 0.59   | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|                 |          |                  |       |
|-----------------|----------|------------------|-------|
| Modulation / SF | CSS / 12 | Test Freq. (MHz) | 927.5 |
| Power Phase     | Line     |                  |       |

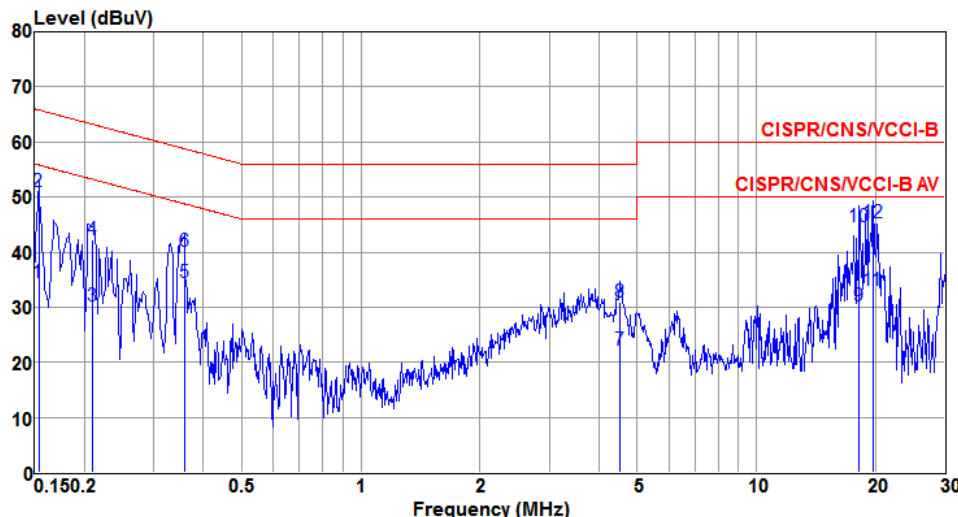
  



|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.152       | 33.10         | 55.87                 | -22.77              | 32.86                 | 0.07                 | 0.05                | Average |
| 2  | 0.152       | 50.98         | 65.87                 | -14.89              | 50.74                 | 0.07                 | 0.05                | QP      |
| 3  | 0.190       | 28.98         | 54.02                 | -25.04              | 28.67                 | 0.06                 | 0.07                | Average |
| 4  | 0.190       | 43.44         | 64.02                 | -20.58              | 43.13                 | 0.06                 | 0.07                | QP      |
| 5  | 0.336       | 21.94         | 49.31                 | -27.37              | 21.56                 | 0.06                 | 0.08                | Average |
| 6  | 0.336       | 33.55         | 59.31                 | -25.76              | 33.17                 | 0.06                 | 0.08                | QP      |
| 7  | 4.525       | 18.99         | 46.00                 | -27.01              | 18.19                 | 0.12                 | 0.30                | Average |
| 8  | 4.525       | 30.59         | 56.00                 | -25.41              | 29.79                 | 0.12                 | 0.30                | QP      |
| 9* | 18.920      | 36.55         | 50.00                 | -13.45              | 35.13                 | 0.24                 | 0.59                | Average |
| 10 | 18.920      | 37.95         | 60.00                 | -22.05              | 36.53                 | 0.24                 | 0.59                | QP      |
| 11 | 19.740      | 33.90         | 50.00                 | -16.10              | 32.45                 | 0.24                 | 0.60                | Average |
| 12 | 19.740      | 45.78         | 60.00                 | -14.22              | 44.33                 | 0.24                 | 0.60                | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

|                 |          |                  |       |
|-----------------|----------|------------------|-------|
| Modulation / SF | CSS / 12 | Test Freq. (MHz) | 927.5 |
| Power Phase     | Neutral  |                  |       |



|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable | Remark  |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  |         |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.153  | 34.52 | 55.82 | -21.30 | 34.31 | 0.05   | 0.05  | Average |
| 2  | 0.153  | 50.90 | 65.82 | -14.92 | 50.69 | 0.05   | 0.05  | QP      |
| 3  | 0.209  | 30.10 | 53.23 | -23.13 | 29.85 | 0.04   | 0.07  | Average |
| 4  | 0.209  | 42.20 | 63.23 | -21.03 | 41.95 | 0.04   | 0.07  | QP      |
| 5* | 0.358  | 34.52 | 48.78 | -14.26 | 34.27 | 0.05   | 0.08  | Average |
| 6  | 0.358  | 40.23 | 58.78 | -18.55 | 39.98 | 0.05   | 0.08  | QP      |
| 7  | 4.501  | 22.16 | 46.00 | -23.84 | 21.50 | 0.10   | 0.30  | Average |
| 8  | 4.501  | 30.92 | 56.00 | -25.08 | 30.26 | 0.10   | 0.30  | QP      |
| 9  | 18.232 | 30.10 | 50.00 | -19.90 | 28.84 | 0.25   | 0.59  | Average |
| 10 | 18.232 | 44.59 | 60.00 | -15.41 | 43.33 | 0.25   | 0.59  | QP      |
| 11 | 19.740 | 33.15 | 50.00 | -16.85 | 31.84 | 0.26   | 0.60  | Average |
| 12 | 19.740 | 45.43 | 60.00 | -14.57 | 44.12 | 0.26   | 0.60  | QP      |

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

## 3.2 Unwanted Emissions into Restricted Frequency Bands

### 3.2.1 Limit of Unwanted Emissions into Restricted Frequency Bands

| Restricted Band Emissions Limit |                       |                         |                      |
|---------------------------------|-----------------------|-------------------------|----------------------|
| Frequency Range (MHz)           | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) |
| 0.009~0.490                     | 2400/F(kHz)           | 48.5 - 13.8             | 300                  |
| 0.490~1.705                     | 24000/F(kHz)          | 33.8 - 23               | 30                   |
| 1.705~30.0                      | 30                    | 29                      | 30                   |
| 30~88                           | 100                   | 40                      | 3                    |
| 88~216                          | 150                   | 43.5                    | 3                    |
| 216~960                         | 200                   | 46                      | 3                    |
| Above 960                       | 500                   | 54                      | 3                    |

**Note 1:**  
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

### 3.2.2 Test Procedures

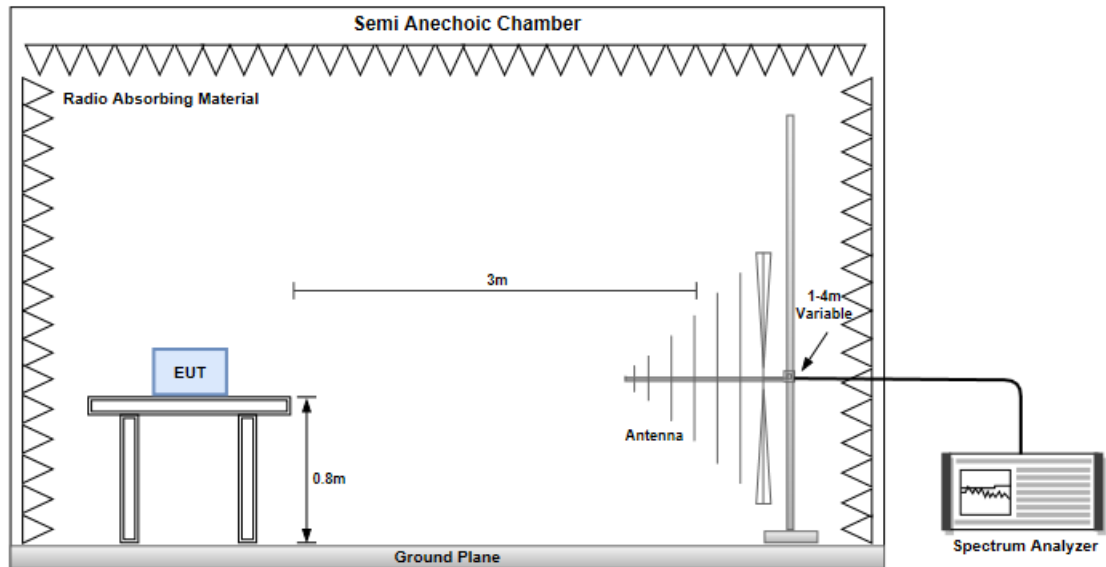
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

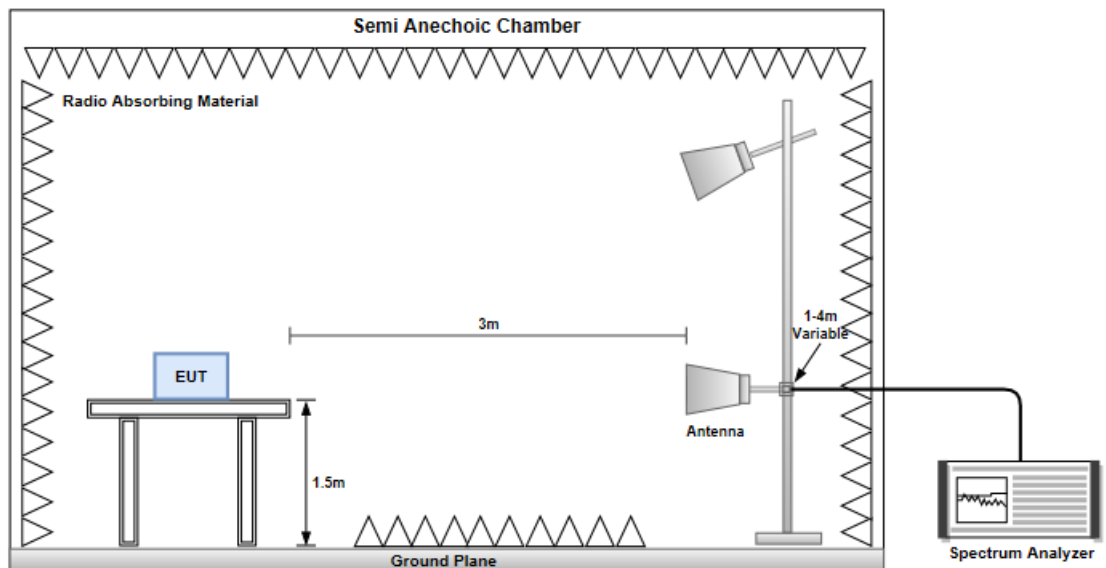
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.2.3 Test Setup

#### Radiated Emissions below 1 GHz



#### Radiated Emissions above 1 GHz



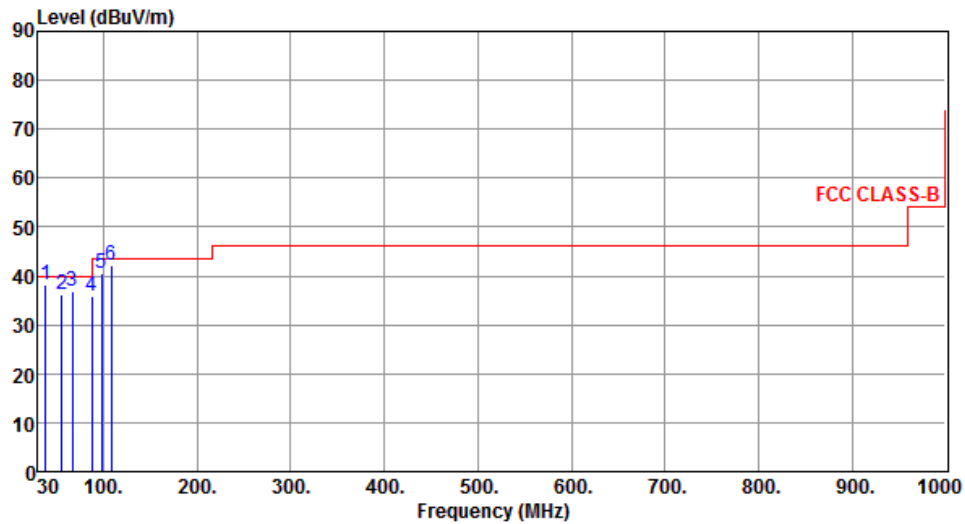
### 3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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(MHz) | 923.3 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| <div><div><div>Level (dBUV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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|                 |          |                  |       |
|-----------------|----------|------------------|-------|
| Modulation / SF | CSS / 12 | Test Freq. (MHz) | 927.5 |
| Polarization    | Vertical |                  |       |



|   | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|---|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|--------|-------------------|----------------------|
| 1 | 38.45        | 38.05                       | 40.00           | -1.95        | 46.70                 | -8.65        | QP     | 100               | 242                  |
| 2 | 55.78        | 36.05                       | 40.00           | -3.95        | 44.48                 | -8.43        | QP     | 100               | 27                   |
| 3 | 66.77        | 36.72                       | 40.00           | -3.28        | 46.64                 | -9.92        | QP     | 100               | 224                  |
| 4 | 87.65        | 36.02                       | 40.00           | -3.98        | 50.13                 | -14.11       | QP     | 100               | 297                  |
| 5 | 98.15        | 40.58                       | 43.50           | -2.92        | 54.30                 | -13.72       | QP     | 100               | 304                  |
| 6 | 108.48       | 42.05                       | 43.50           | -1.45        | 54.16                 | -12.11       | QP     | 100               | 318                  |

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

### 3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

| Modulation / SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CSS / 12   | Test Freq. (MHz) | 923.3  |        |         |          |         |        |       |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
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| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Horizontal |                  |        |        |         |          |         |        |       |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
| <div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div></div><div><div><div><div><div>1000</div><div>6000</div><div>10000</div><div>14000</div><div>18000</div><div>22000</div><div>26000</div><div>30000</div><div>34000</div><div>40000</div></div></div><div><div>Frequency (MHz)</div></div></div></div><div><div><div>FCC CLASS-B</div><div>FCC CLASS-B (AVG)</div></div></div></div></div><table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th></th><th></th><th>reading</th><th></th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2769.90</td><td>31.73</td><td>54.00</td><td>-22.27</td><td>32.00</td><td>-0.27</td><td>Average</td><td>266</td><td>270</td></tr><tr><td>2</td><td>2769.90</td><td>41.49</td><td>74.00</td><td>-32.51</td><td>41.76</td><td>-0.27</td><td>Peak</td><td>266</td><td>270</td></tr><tr><td>3</td><td>4616.50</td><td>33.14</td><td>54.00</td><td>-20.86</td><td>28.61</td><td>4.53</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>4</td><td>4616.50</td><td>44.70</td><td>74.00</td><td>-29.30</td><td>40.17</td><td>4.53</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>5</td><td>7386.40</td><td>42.20</td><td>54.00</td><td>-11.80</td><td>32.05</td><td>10.15</td><td>Average</td><td>100</td><td>217</td></tr><tr><td>6</td><td>7386.40</td><td>52.59</td><td>74.00</td><td>-21.41</td><td>42.44</td><td>10.15</td><td>Peak</td><td>100</td><td>217</td></tr></table></div></div></div> |            |                  |        |        | Freq.   | Emission | Limit   | Margin | SA    | Factor | Remark | ANT | Turn |  | MHz | level |  |  | reading |  |  | High | Table |  |  | dBuV/m | dBuV/m | dB | dBuV | dB |  | cm | deg | 1 | 2769.90 | 31.73 | 54.00 | -22.27 | 32.00 | -0.27 | Average | 266 | 270 | 2 | 2769.90 | 41.49 | 74.00 | -32.51 | 41.76 | -0.27 | Peak | 266 | 270 | 3 | 4616.50 | 33.14 | 54.00 | -20.86 | 28.61 | 4.53 | Average | 100 | 40 | 4 | 4616.50 | 44.70 | 74.00 | -29.30 | 40.17 | 4.53 | Peak | 100 | 40 | 5 | 7386.40 | 42.20 | 54.00 | -11.80 | 32.05 | 10.15 | Average | 100 | 217 | 6 | 7386.40 | 52.59 | 74.00 | -21.41 | 42.44 | 10.15 | Peak | 100 | 217 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Freq.      | Emission         | Limit  | Margin | SA      | Factor   | Remark  | ANT    | Turn  |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MHz        | level            |        |        | reading |          |         | High   | Table |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | dBuV/m           | dBuV/m | dB     | dBuV    | dB       |         | cm     | deg   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2769.90    | 31.73            | 54.00  | -22.27 | 32.00   | -0.27    | Average | 266    | 270   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2769.90    | 41.49            | 74.00  | -32.51 | 41.76   | -0.27    | Peak    | 266    | 270   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4616.50    | 33.14            | 54.00  | -20.86 | 28.61   | 4.53     | Average | 100    | 40    |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 4616.50    | 44.70            | 74.00  | -29.30 | 40.17   | 4.53     | Peak    | 100    | 40    |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7386.40    | 42.20            | 54.00  | -11.80 | 32.05   | 10.15    | Average | 100    | 217   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7386.40    | 52.59            | 74.00  | -21.41 | 42.44   | 10.15    | Peak    | 100    | 217   |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |
| Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)<br>*Factor includes antenna factor , cable loss and amplifier gain<br>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                  |        |        |         |          |         |        |       |        |        |     |      |  |     |       |  |  |         |  |  |      |       |  |  |        |        |    |      |    |  |    |     |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |   |         |       |       |        |       |      |         |     |    |   |         |       |       |        |       |      |      |     |    |   |         |       |       |        |       |       |         |     |     |   |         |       |       |        |       |       |      |     |     |

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| Modulation / SF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CSS / 12 | Test Freq. (MHz) | 923.3 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Vertical |                  |       |
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## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin  
Kou District, New Taipei City,  
Taiwan, R.O.C.

### **Kwei Shan**

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,  
Kwei Shan District, Tao Yuan City  
333, Taiwan, R.O.C.

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd  
St., Kwei Shan District, Tao Yuan  
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

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