# Partial FCC RF Test Report

| | | |
|---|---|---|
| APPLICANT | : | Getac Technology Corporation |
| EQUIPMENT | : | Notebook PC |
| BRAND NAME | : | Getac |
| MODEL NAME | : | E100 |
| FCC ID | : | QYLEA01 |
| STANDARD | : | FCC Part 15 Subpart C §15.247 |
| CLASSIFICATION | : | Digital Transmission System (DTS) |

**This is a partial report which is only valid combined with the Integrated WLAN Module (Brand name: Intel / Model name: 622ANHMW, FCC ID: PD9622ANH) Report.**

**The product was received on May 03, 2010 and completely tested on May 30, 2010. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.**

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

**Reviewed by:**

**Roy Wu / Manager**

Testing Laboratory 1190

***SPORTON INTERNATIONAL INC.***

***No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.***

# TABLE OF CONTENTS

# REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FR050315-01B | Rev. 01 | Initial issue of report | Jun. 15, 2010 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

# SUMMARY OF TEST RESULT

| Report Section | FCC Rule | IC Rule | Description | Limit | Result | Remark |
|---|---|---|---|---|---|---|
| 3.1 | 15.247(d) | A8.5 | Frequency Band Edges | ≤ 20dBc | Pass | - |
| 3.2 | 15.207 | Gen 7.2.2 | AC Conducted Emission | 15.207(a) | Pass | Under limit 15.8 dB at 13.502 MHz |
| 3.3 | 15.247(d) | A8.5 | Transmitter Radiated Emission | 15.209(a) & 15.247(d) | Pass | Under limit 4.65 dB at 5725.00 MHz |
| 3.4 | 15.203 & 15.247(b) | A8.4 | Antenna Requirement | N/A | Pass | - |

# 1 General Description

## 1.1 Applicant

**Getac Technology Corporation**

5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang Dist., Taipei City 11568, Taiwan, R.O.C.

## 1.2 Manufacturer

**GeTAC Technology (Kunshan) Co., LTD.**

No. 269, 2nd Road, Export Processing Zone, Changjiang South Road, Kunshan, Jiangsu, P.R.C.

## 1.3 Feature of Equipment Under Test

| Product Feature & Specification | |
|---|---|
| **Equipment** | Notebook PC |
| **Brand Name** | Getac |
| **Model Name** | E100 |
| **FCC ID** | QYLEA01 |
| **Tx/Rx Frequency Range** | 802.11b/g/n : 2400 MHz ~ 2483.5 MHz<br>802.11a/n : 5725 MHz ~ 5850 MHz |
| **Channel Spacing** | 802.11b/g : 5 MHz<br>802.11a : 20 MHz |
| **Maximum Output Power to Antenna** | **<2400 MHz ~ 2483.5 MHz>**<br>802.11b : 16.64 dBm (46.13 mW)<br>802.11g : 16.61 dBm (45.81 mW)<br>802.11n (BW 20MHz) : 16.62 dBm (45.92 mW)<br>802.11n (BW 40MHz) : 16.51 dBm (44.77 mW)<br>**<5725 MHz ~ 5850 MHz>**<br>802.11a : 16.82 dBm (48.08 mW)<br>802.11n (BW 20MHz) : 16.80 dBm (47.86 mW)<br>802.11n (BW 40MHz) : 16.77 dBm (47.53 mW) |
| **Antenna Type** | 802.11b/g/n : PIFA Antenna with gain 0.35 dBi<br>802.11a/n : PIFA Antenna with gain 3.17 dBi |
| **Type of Modulation** | 802.11b : DSSS (BPSK / QPSK / CCK)<br>802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) |
| **EUT Stage** | Identical Prototype |

**Remark:**

**1.** For other wireless features of this EUT, test report will be issued separately.

**2.** This test report recorded only product characteristics and test results of Digital Transmission System (DTS).

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

## 1.4 Testing Site

| Test Site | SPORTON INTERNATIONAL INC. | | |
|---|---|---|---|
| Test Site Location | No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,<br>Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.<br>TEL: +886-3-3273456 / FAX: +886-3-3284978 | | |
| Test Site No. | Sporton Site No. | | FCC/IC Registration No. |
| | CO05-HY | 03CH07HY | TW1022/4086B-1 |

## 1.5 Applied Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 (Measurement Guidelines of DTS)
- ANSI C63.4-2003
- IC RSS-210 Issue 7

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

## 1.6 Ancillary Equipment List

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | System Simulator | R&S | CMU 200 | N/A | N/A | Unshielded, 1.8 m |
| 2. | GPS Station | T&E | GS-50 | N/A | N/A | Unshielded, 1.8 m |
| 3. | WLAN AP | D-Link | DIR-628 | KA2DIR628A2 | N/A | Unshielded, 1.8 m |
| 4. | Notebook | DELL | Vostro 1510 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m<br>DC O/P: Shielded, 1.8 m |
| 5. | Bluetooth Earphone | Nokia | BH-102 | PYAHS-107W | N/A | N/A |
| 6. | iPod | Apple | A1285 | FCC DoC | Shielded, 1.0 m | N/A |
| 7. | Modem | ACEEX | DM1414 | IFAXDM1414 | Shielded, 1.15 m | N/A |

# 2 Test Configuration of Equipment Under Test

## 2.1 RF Power

Preliminary tests were performed in different data rate and recorded the RF power output in the following table:

| Channel | Frequency | 802.11b RF Power (dBm) | |
|---|---|---|---|
| | | Data Rate: 1Mbps | |
| | | Chain A | Chain B |
| CH 01 | 2412 MHz | 16.44 | **16.64** |
| CH 06 | 2437 MHz | 16.35 | 16.56 |
| CH 11 | 2462 MHz | 16.11 | 16.04 |

| Channel | Frequency | 802.11g RF Power (dBm) | |
|---|---|---|---|
| | | Data Rate: 6Mbps | |
| | | Chain A | Chain B |
| CH 01 | 2412 MHz | 16.58 | 16.56 |
| CH 06 | 2437 MHz | 16.47 | **16.61** |
| CH 11 | 2462 MHz | 16.08 | 16.21 |

| Channel | Frequency | 802.11n (BW 20MHz) RF Power (dBm) | | |
|---|---|---|---|---|
| | | Data Rate: HT0 | | Data Rate: HT8 |
| | | SISO | | 2Tx |
| | | Chain A | Chain B | Chain A+B |
| CH 01 | 2412 MHz | 16.46 | 16.43 | 16.30 |
| CH 06 | 2437 MHz | 16.38 | **16.62** | 16.26 |
| CH 11 | 2462 MHz | 16.15 | 16.14 | 16.41 |

| Channel | Frequency | 802.11n (BW 40MHz) RF Power (dBm) | | |
|---|---|---|---|---|
| | | Data Rate: HT0 | | Data Rate: HT8 |
| | | SISO | | 2Tx |
| | | Chain A | Chain B | Chain A+B |
| CH 03 | 2422 MHz | 16.46 | 16.20 | 16.42 |
| CH 06 | 2437 MHz | 16.20 | 16.12 | 16.40 |
| CH 09 | 2452 MHz | 16.22 | 15.90 | **16.51** |

| Channel | Frequency | 802.11a RF Power (dBm) | |
|---|---|---|---|
| | | Data Rate: 6Mbps | |
| | | Chain A | Chain B |
| CH149 | 5745 MHz | 16.60 | 16.61 |
| CH157 | 5785 MHz | 16.80 | **16.82** |
| CH165 | 5825 MHz | 16.36 | 16.70 |

| Channel | Frequency | 802.11n (BW 20MHz) RF Power (dBm) | | |
|---|---|---|---|---|
| | | Data Rate: HT0 | | Data Rate: HT8 |
| | | SISO | | 2Tx |
| | | Chain A | Chain B | Chain A+B |
| CH149 | 5745 MHz | 16.45 | 16.40 | **16.80** |
| CH157 | 5785 MHz | 16.32 | 16.63 | 16.71 |
| CH165 | 5825 MHz | 16.49 | 16.54 | 16.60 |

| Channel | Frequency | 802.11n (BW 40MHz) RF Power (dBm) | | |
|---|---|---|---|---|
| | | Data Rate: HT0 | | Data Rate: HT8 |
| | | SISO | | 2Tx |
| | | Chain A | Chain B | Chain A+B |
| CH 151 | 5755 MHz | 16.58 | **16.77** | 16.46 |
| CH 159 | 5795 MHz | 16.33 | 16.74 | 16.75 |

**Remark:**

1. The EUT is programmed to transmit signals continuously for all testing.
2. SISO stands for single input and single output. It means that only one chain transmits signals at a time.
3. 2Tx is one type of MIMO, which means that two chains transmit signals at the same time.

## 2.2 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz), radiated emission (30 MHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).
Pre-scanned tests, X, Y, Z in three orthogonal panels, were conducted to determine the final configuration from all possible combinations, tablet modes.

The following table is showing the total pre-scanned test modes, and the worst modes are recorded in this report only.

| Test Cases | |
|---|---|
| **Test Item** | **802.11b (Modulation : DSSS)**<br>**802.11g/n (Modulation : OFDM)**<br>**802.11a/n (Modulation : OFDM)** |
| **Radiated TCs** | Mode 1: 802.11b_CH01_2412 MHz<br>Mode 2: 802.11b_CH06_2437 MHz<br>Mode 3: 802.11b_CH11_2462 MHz<br>Mode 4: 802.11g_CH01_2412 MHz<br>Mode 5: 802.11g_CH06_2437 MHz<br>Mode 6: 802.11g_CH11_2462 MHz<br>Mode 7: 802.11n_CH01_2412 MHz (BW 20M)<br>Mode 8: 802.11n_CH06_2437 MHz (BW 20M)<br>Mode 9: 802.11n_CH11_2462 MHz (BW 20M)<br>Mode 10: 802.11n_CH03_2422 MHz (BW 40M)<br>Mode 11: 802.11n_CH06_2437 MHz (BW 40M)<br>Mode 12: 802.11n_CH09_2452 MHz (BW 40M)<br>Mode 13: 802.11a_CH149_5745 MHz<br>Mode 14: 802.11a_CH157_5785 MHz<br>Mode 15: 802.11a_CH165_5825 MHz<br>Mode 16: 802.11n_CH149_5745 MHz (BW 20M)<br>Mode 17: 802.11n_CH157_5785 MHz (BW 20M)<br>Mode 18: 802.11n_CH165_5825 MHz (BW 20M)<br>Mode 19: 802.11n_CH151_5755 MHz (BW 40M)<br>Mode 20: 802.11n_CH159_5795 MHz (BW 40M) |

| AC Conducted Emission | Mode 1 : GSM850 Idle + WLAN Link + Bluetooth Link + TC + Adapter |
|---|---|

**Remark:**

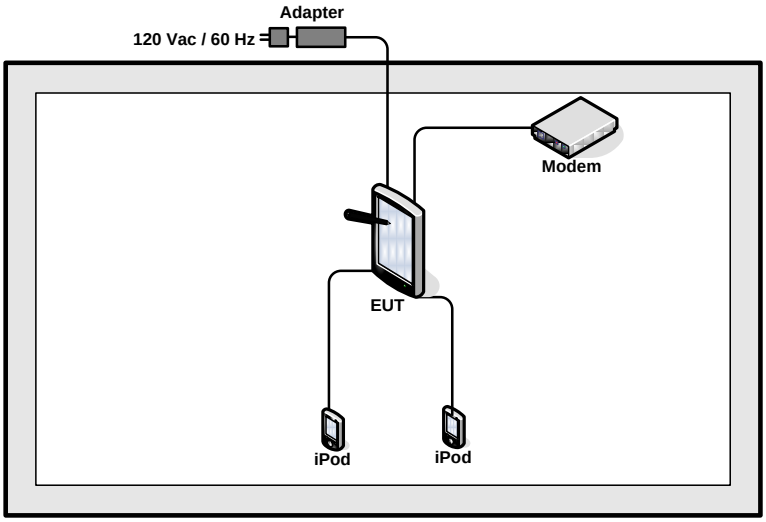
**1.** TC stands for Test Configuration, and consists of modem, mouse, earphone, keyboard, RJ-45 and GPS Rx.

**2.** Mode 4~6, 10~15, and 19~20 of radiated emission only verify bandedge.

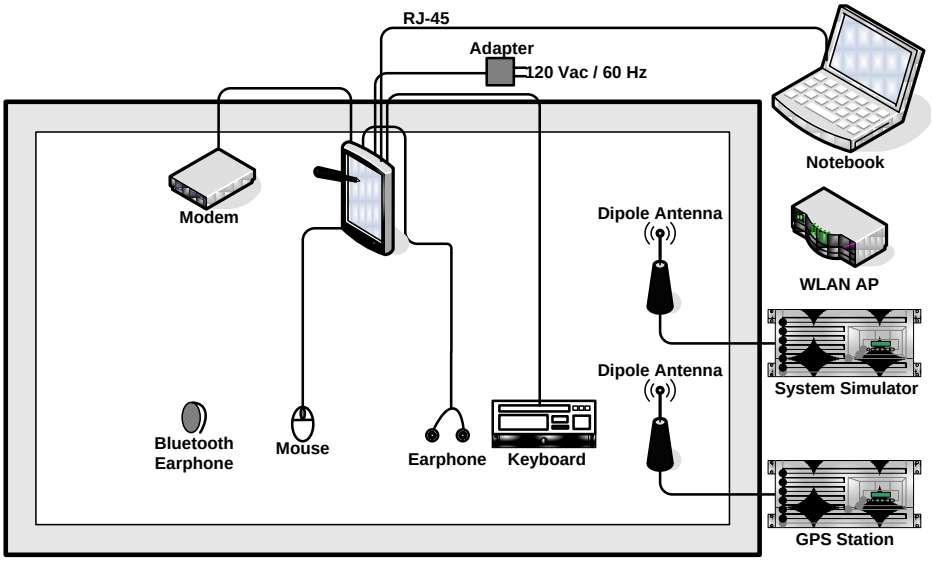
**3.** Only the radiated emission and conducted emission tests were performed in this report and the conducted test cases can be referred to the Bluetooth module (Brand name: Intel / Model name: 622ANHMW, FCC ID: PD9622ANH, AEGIS Report Number: INTEL-090601F) report.

## 2.3 Connection Diagram of Test System

**<WLAN Tx Mode>**




**<EUT with TC Mode>**




## 2.4 RF Utility

The programmed RF utility “CRTU”, is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

# 3 Test Result

## 3.1 Band Edges Measurement

### 3.1.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB.

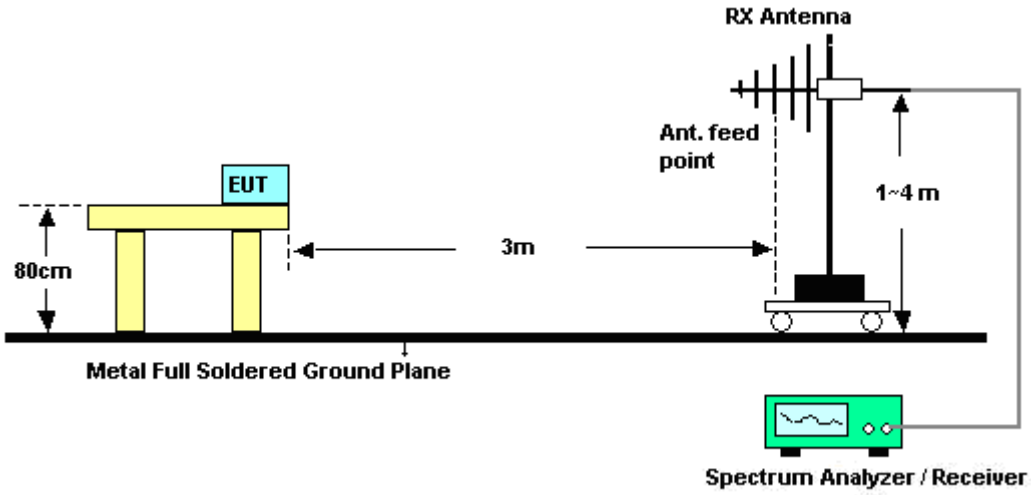
### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.1.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003 and FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Conducted emission test: Set RBW = 100 kHz, Video bandwidth (VBW) > RBW. Band edge emissions must be at least 20 dB below the highest emission level within the authorized band as measured with a 100 kHz RBW. Note: If the output power of this device was measured by power meter, the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Apply to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep=Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation as in FCC Section 15.35(b) and (c).

### 3.1.4 Test Setup



### 3.1.5 Test Result of Radiated Band Edges

| Test Mode : | Mode 1 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11b | Relative Humidity : | 43~44% |
| Test Channel : | 01 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2312.85 | 46.40 | -27.60 | 74.00 | 42.99 | 32.00 | 5.53 | 34.12 | 169 | 325 | Peak |
| 2312.85 | 33.65 | -20.35 | 54.00 | 30.24 | 32.00 | 5.53 | 34.12 | 169 | 325 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2353.70 | 45.89 | -28.11 | 74.00 | 42.46 | 32.08 | 5.49 | 34.14 | 200 | 340 | Peak |
| 2353.70 | 33.14 | -20.86 | 54.00 | 29.71 | 32.08 | 5.49 | 34.14 | 200 | 340 | Average |

| Test Mode : | Mode 3 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11b | Relative Humidity : | 43~44% |
| Test Channel : | 11 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2484.42 | 45.65 | -28.35 | 74.00 | 42.19 | 32.27 | 5.38 | 34.19 | 197 | 318 | Peak |
| 2484.42 | 33.14 | -20.86 | 54.00 | 29.68 | 32.27 | 5.38 | 34.19 | 197 | 318 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2494.49 | 44.56 | -29.44 | 74.00 | 41.09 | 32.30 | 5.37 | 34.20 | 130 | 20 | Peak |
| 2494.49 | 32.46 | -21.54 | 54.00 | 28.99 | 32.30 | 5.37 | 34.20 | 130 | 20 | Average |

| Test Mode : | Mode 4 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11g | Relative Humidity : | 43~44% |
| Test Channel : | 01 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2312.66 | 46.79 | -27.21 | 74.00 | 43.38 | 32.00 | 5.53 | 34.12 | 140 | 320 | Peak |
| 2312.66 | 33.40 | -20.60 | 54.00 | 29.99 | 32.00 | 5.53 | 34.12 | 140 | 320 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2330.33 | 45.65 | -28.35 | 74.00 | 42.25 | 32.02 | 5.51 | 34.13 | 200 | 340 | Peak |
| 2330.33 | 33.25 | -20.75 | 54.00 | 29.85 | 32.02 | 5.51 | 34.13 | 200 | 340 | Average |

| Test Mode : | Mode 6 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11g | Relative Humidity : | 43~44% |
| Test Channel : | 11 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2492.21 | 45.64 | -28.36 | 74.00 | 42.17 | 32.30 | 5.37 | 34.20 | 197 | 320 | Peak |
| 2492.21 | 32.85 | -21.15 | 54.00 | 29.38 | 32.30 | 5.37 | 34.20 | 197 | 320 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2487.46 | 44.82 | -29.18 | 74.00 | 41.36 | 32.27 | 5.38 | 34.19 | 160 | 355 | Peak |
| 2487.46 | 32.65 | -21.35 | 54.00 | 29.19 | 32.27 | 5.38 | 34.19 | 160 | 355 | Average |

| Test Mode : | Mode 7 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 43~44% |
| Test Channel : | 01 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2375.17 | 45.37 | -28.63 | 74.00 | 41.94 | 32.11 | 5.47 | 34.15 | 124 | 235 | Peak |
| 2375.17 | 33.15 | -20.85 | 54.00 | 29.72 | 32.11 | 5.47 | 34.15 | 124 | 235 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2336.41 | 46.09 | -27.91 | 74.00 | 42.67 | 32.05 | 5.50 | 34.13 | 100 | 133 | Peak |
| 2336.41 | 33.07 | -20.93 | 54.00 | 29.65 | 32.05 | 5.50 | 34.13 | 100 | 133 | Average |

| Test Mode : | Mode 9 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 43~44% |
| Test Channel : | 11 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2492.21 | 44.80 | -29.20 | 74.00 | 41.33 | 32.30 | 5.37 | 34.20 | 125 | 112 | Peak |
| 2492.21 | 32.63 | -21.37 | 54.00 | 29.16 | 32.30 | 5.37 | 34.20 | 125 | 112 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2489.17 | 44.81 | -29.19 | 74.00 | 41.33 | 32.30 | 5.37 | 34.19 | 100 | 125 | Peak |
| 2489.17 | 32.46 | -21.54 | 54.00 | 28.98 | 32.30 | 5.37 | 34.19 | 100 | 125 | Average |

| Test Mode : | Mode 10 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11n (BW 40MHz) | Relative Humidity : | 43~44% |
| Test Channel : | 03 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2389.42 | 48.61 | -25.39 | 74.00 | 45.17 | 32.13 | 5.46 | 34.15 | 125 | 233 | Peak |
| 2389.42 | 33.89 | -20.11 | 54.00 | 30.45 | 32.13 | 5.46 | 34.15 | 125 | 233 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2351.61 | 45.06 | -28.94 | 74.00 | 41.63 | 32.08 | 5.49 | 34.14 | 128 | 120 | Peak |
| 2351.61 | 32.96 | -21.04 | 54.00 | 29.53 | 32.08 | 5.49 | 34.14 | 128 | 120 | Average |

| Test Mode : | Mode 12 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11n (BW 40MHz) | Relative Humidity : | 43~44% |
| Test Channel : | 09 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2483.66 | 48.17 | -25.83 | 74.00 | 44.71 | 32.27 | 5.38 | 34.19 | 122 | 98 | Peak |
| 2483.66 | 33.56 | -20.44 | 54.00 | 30.10 | 32.27 | 5.38 | 34.19 | 122 | 98 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 2497.53 | 44.95 | -29.05 | 74.00 | 41.48 | 32.30 | 5.37 | 34.20 | 105 | 120 | Peak |
| 2497.53 | 32.57 | -21.43 | 54.00 | 29.10 | 32.30 | 5.37 | 34.20 | 105 | 120 | Average |

| Test Mode : | Mode 13 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11a | Relative Humidity : | 43~44% |
| Test Channel : | 149 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5725.00 | 73.32 | -4.87 | 78.19 | 64.40 | 35.01 | 8.40 | 34.49 | 154 | 217 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5725.00 | 66.95 | -7.49 | 74.44 | 58.03 | 35.01 | 8.40 | 34.49 | 200 | 349 | Peak |

| Test Mode : | Mode 15 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11a | Relative Humidity : | 43~44% |
| Test Channel : | 165 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5850.00 | 65.00 | -13.98 | 78.98 | 55.93 | 35.18 | 8.43 | 34.54 | 157 | 162 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5850.00 | 64.00 | -12.11 | 76.11 | 54.93 | 35.18 | 8.43 | 34.54 | 155 | 351 | Peak |

| Test Mode : | Mode 16 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 43~44% |
| Test Channel : | 149 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5725.00 | 77.02 | -10.18 | 87.20 | 68.10 | 35.01 | 8.40 | 34.49 | 100 | 330 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5725.00 | 68.94 | -13.45 | 82.39 | 60.02 | 35.01 | 8.40 | 34.49 | 184 | 66 | Peak |

| Test Mode : | Mode 18 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 43~44% |
| Test Channel : | 165 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5850.00 | 69.48 | -16.07 | 85.55 | 60.41 | 35.18 | 8.43 | 34.54 | 100 | 328 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5850.00 | 64.88 | -15.32 | 80.20 | 55.81 | 35.18 | 8.43 | 34.54 | 100 | 64 | Peak |

| Test Mode : | Mode 19 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11n (BW 40MHz) | Relative Humidity : | 43~44% |
| Test Channel : | 151 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5725.00 | 79.96 | -4.65 | 84.61 | 71.04 | 35.01 | 8.40 | 34.49 | 100 | 331 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5725.00 | 72.46 | -6.97 | 79.43 | 63.54 | 35.01 | 8.40 | 34.49 | 100 | 109 | Peak |

| Test Mode : | Mode 20 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Band : | 802.11n (BW 40MHz) | Relative Humidity : | 43~44% |
| Test Channel : | 159 | Test Engineer : | Kay Wu |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5850.00 | 55.68 | -27.18 | 82.86 | 46.61 | 35.18 | 8.43 | 34.54 | 100 | 329 | Peak |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
| 5850.00 | 54.08 | -25.74 | 79.82 | 45.01 | 35.18 | 8.43 | 34.54 | 153 | 330 | Peak |

## 3.2 AC Conducted Emission Measurement

### 3.2.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

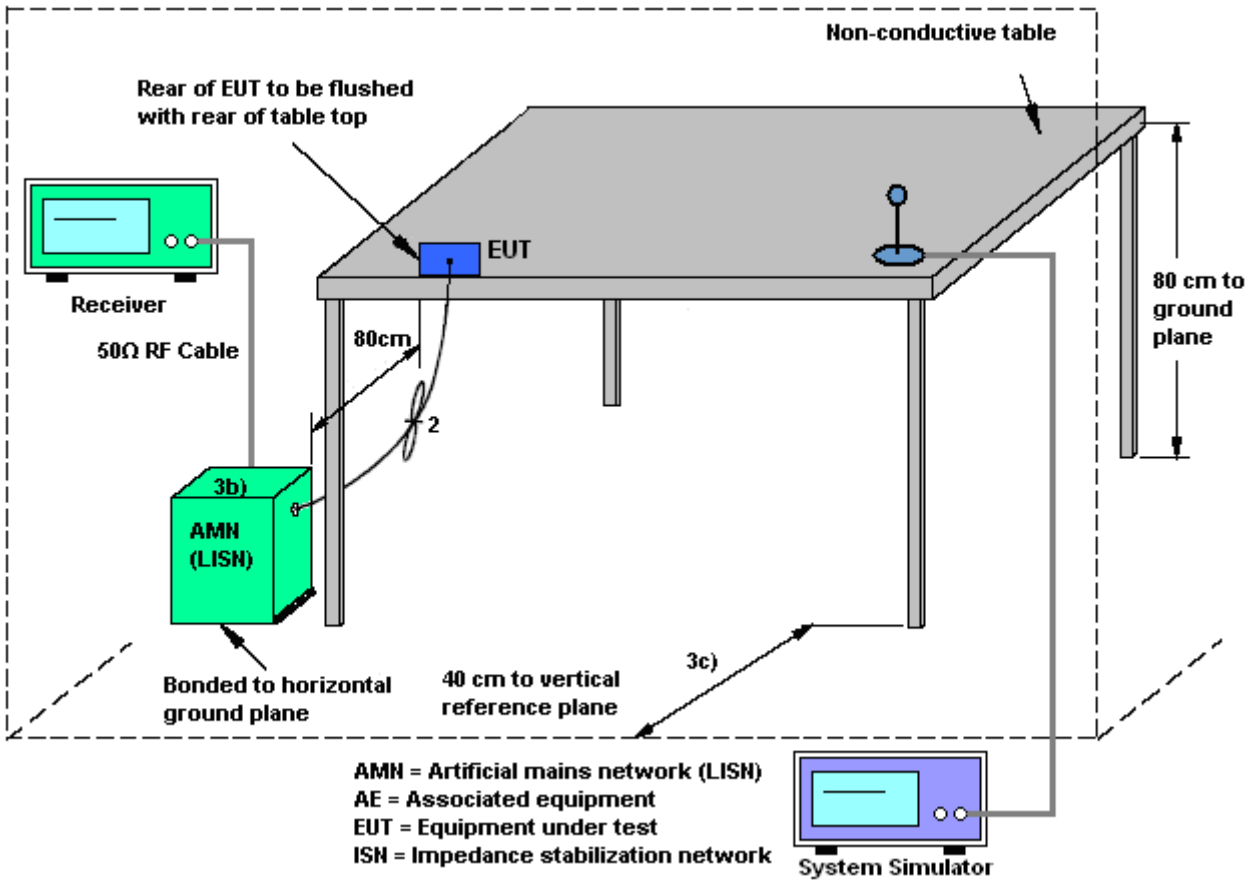
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

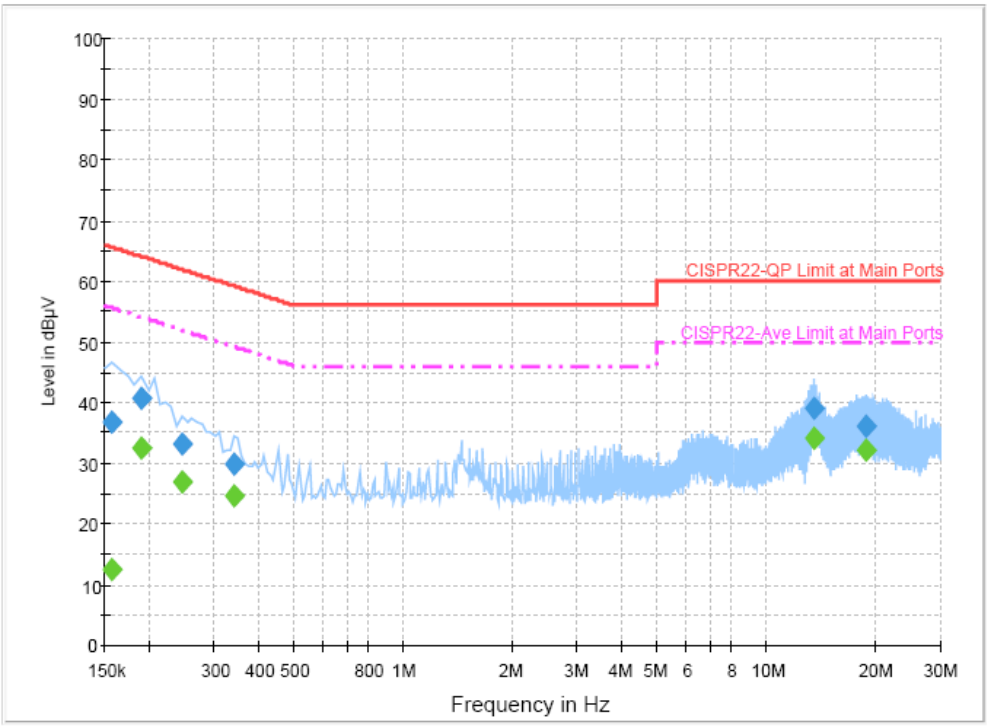
1. The testing follows the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.2.4 Test Setup



### 3.2.5 Test Result of AC Conducted Emission

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 1 | **Temperature :** | 20~22℃ |
| **Test Engineer :** | Novic Jiang | **Relative Humidity :** | 40~42% |
| **Test Voltage :** | 120Vac / 60Hz | **Phase :** | Line |
| **Function Type :** | GSM850 Idle + WLAN Link + Bluetooth Link + TC + Adapter | | |
| **Remark :** | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



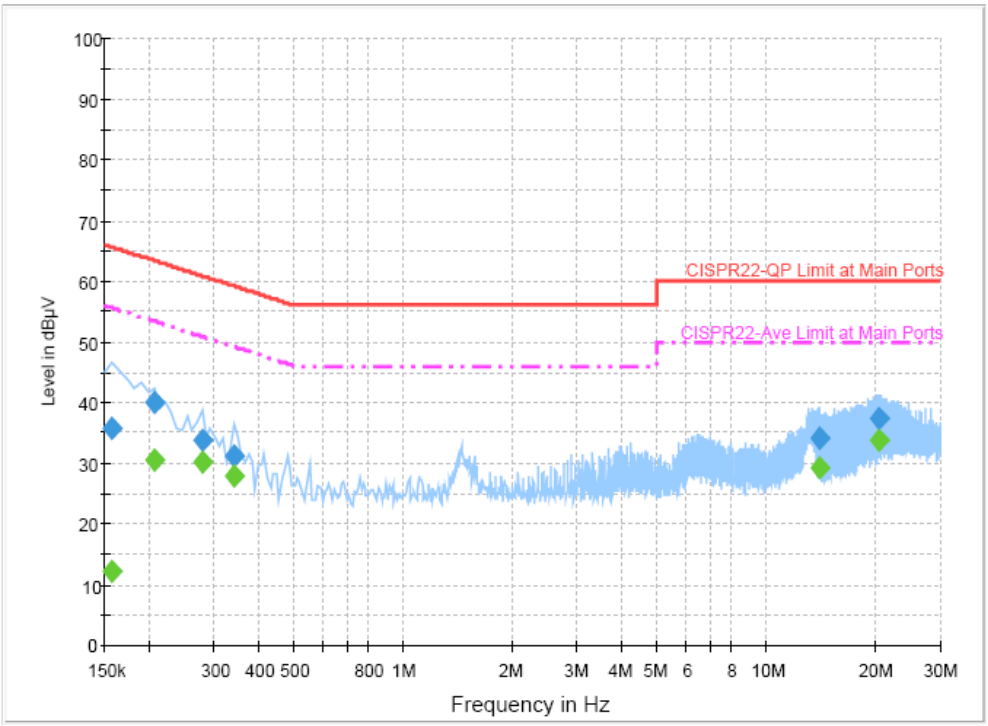

**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.158000 | 36.7 | Off | L1 | 19.5 | 28.9 | 65.6 |
| 0.190000 | 40.5 | Off | L1 | 19.6 | 23.5 | 64.0 |
| 0.246000 | 33.2 | Off | L1 | 19.5 | 28.7 | 61.9 |
| 0.342000 | 29.8 | Off | L1 | 19.5 | 29.4 | 59.2 |
| 13.502000 | 39.0 | Off | L1 | 19.6 | 21.0 | 60.0 |
| 18.670000 | 36.1 | Off | L1 | 19.7 | 23.9 | 60.0 |

**Final Result 2**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.158000 | 12.6 | Off | L1 | 19.5 | 43.0 | 55.6 |
| 0.190000 | 32.3 | Off | L1 | 19.6 | 21.7 | 54.0 |
| 0.246000 | 27.0 | Off | L1 | 19.5 | 24.9 | 51.9 |
| 0.342000 | 24.7 | Off | L1 | 19.5 | 24.5 | 49.2 |
| 13.502000 | 34.2 | Off | L1 | 19.6 | 15.8 | 50.0 |
| 18.670000 | 32.2 | Off | L1 | 19.7 | 17.8 | 50.0 |

| Test Mode : | Mode 1 | Temperature : | 20~22℃ |
|---|---|---|---|
| Test Engineer : | Novic Jiang | Relative Humidity : | 40~42% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + WLAN Link + Bluetooth Link + TC + Adapter | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |




**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.158000 | 35.8 | Off | N | 19.5 | 29.8 | 65.6 |
| 0.206000 | 40.0 | Off | N | 19.5 | 23.4 | 63.4 |
| 0.278000 | 33.6 | Off | N | 19.5 | 27.3 | 60.9 |
| 0.342000 | 31.3 | Off | N | 19.4 | 27.9 | 59.2 |
| 13.918000 | 34.2 | Off | N | 19.7 | 25.8 | 60.0 |
| 20.262000 | 37.5 | Off | N | 19.8 | 22.5 | 60.0 |

**Final Result 2**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.158000 | 12.2 | Off | N | 19.5 | 43.4 | 55.6 |
| 0.206000 | 30.6 | Off | N | 19.5 | 22.8 | 53.4 |
| 0.278000 | 30.2 | Off | N | 19.5 | 20.7 | 50.9 |
| 0.342000 | 27.8 | Off | N | 19.4 | 21.4 | 49.2 |
| 13.918000 | 29.2 | Off | N | 19.7 | 20.8 | 50.0 |
| 20.262000 | 33.8 | Off | N | 19.8 | 16.2 | 50.0 |

## 3.3 Radiated Emission Measurement

### 3.3.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 3.3.2 Measuring Instruments

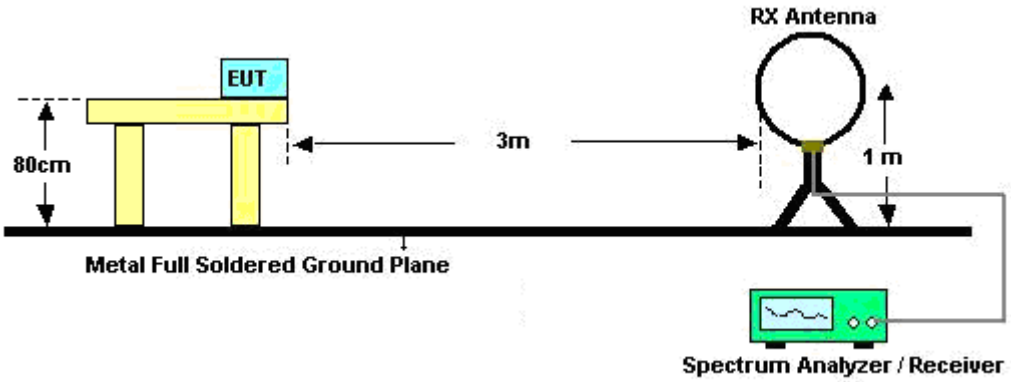
See list of measuring instruments of this test report.

### 3.3.3 Test Procedures

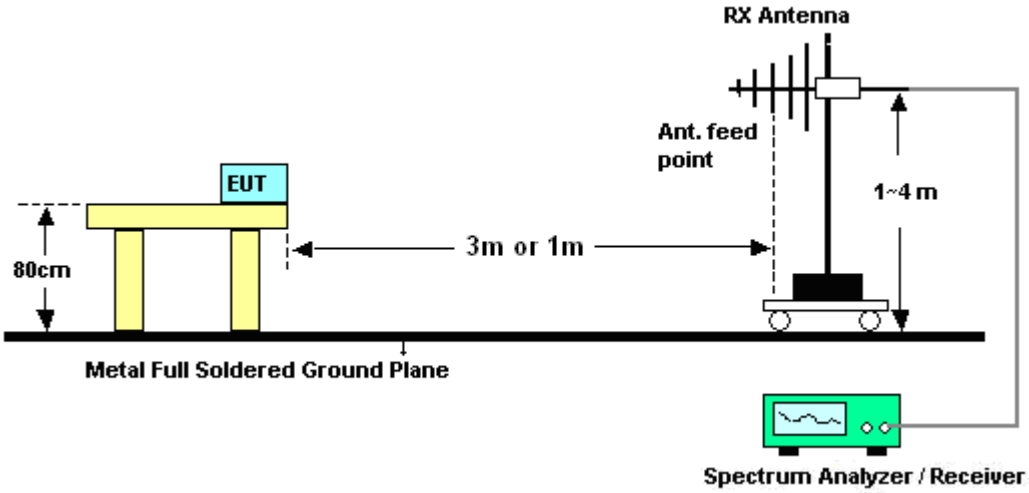
1. The testing follows the guidelines in FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Use the following spectrum analyzer settings:
   (1) Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
   (2) Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.
   Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB)
3. Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

### 3.3.4 Test Setup

**For radiated emissions below 30MHz**




**For radiated emissions above 30MHz**



### 3.3.5 Test Results of Radiated Emissions (9kHz ~ 30MHz)

| Test Engineer : | Kay Wu | Temperature : | 24~25°C |
|---|---|---|---|
| | | Relative Humidity : | 43~44% |

| Frequency (MHz) | Level (dBuV) | Over Limit (dB) | Limit Line (dBuV) | Remark |
|---|---|---|---|---|
| - | - | - | - | See Note |

**Note:**

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

### 3.3.6 Test Result of Radiated Emission (30MHz ~ 10th Harmonic)

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 1 | **Temperature :** | 24~25°C |
| **Test Channel :** | 01 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Horizontal |
| **Remark :** | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 38.91 | 33.50 | -6.50 | 40.00 | 49.80 | 14.59 | 0.61 | 31.50 | 100 | 222 | Peak |
| 54.30 | 27.03 | -12.97 | 40.00 | 50.70 | 7.16 | 0.72 | 31.55 | - | - | Peak |
| 161.22 | 32.65 | -10.85 | 43.50 | 52.64 | 10.31 | 1.22 | 31.52 | - | - | Peak |
| 365.80 | 36.13 | -9.87 | 46.00 | 50.11 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 478.50 | 25.83 | -20.17 | 46.00 | 36.80 | 17.72 | 2.37 | 31.06 | - | - | Peak |
| 719.30 | 27.07 | -18.93 | 46.00 | 33.74 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 2312.85 | 33.65 | -20.35 | 54.00 | 30.24 | 32.00 | 5.53 | 34.12 | 169 | 325 | Average |
| 2312.85 | 46.40 | -27.60 | 74.00 | 42.99 | 32.00 | 5.53 | 34.12 | 169 | 325 | Peak |
| 2412.00 | 96.74 | - | - | 93.30 | 32.16 | 5.44 | 34.16 | 169 | 325 | Average |
| 2412.00 | 100.16 | - | - | 96.72 | 32.16 | 5.44 | 34.16 | 169 | 325 | Peak |
| 2500.00 | 43.92 | -30.08 | 74.00 | 40.45 | 32.30 | 5.37 | 34.20 | 169 | 325 | Peak |
| 2500.00 | 32.61 | -21.39 | 54.00 | 29.14 | 32.30 | 5.37 | 34.20 | 169 | 325 | Average |
| 8241.00 | 54.31 | -19.69 | 74.00 | 43.41 | 36.00 | 10.00 | 35.10 | 100 | 196 | Peak |
| 8241.00 | 40.56 | -13.44 | 54.00 | 29.66 | 36.00 | 10.00 | 35.10 | 100 | 196 | Average |

| Test Mode : | Mode 1 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 84.54 | 31.21 | -8.79 | 40.00 | 53.76 | 8.09 | 0.90 | 31.54 | 100 | 119 | Peak |
| 124.50 | 27.11 | -16.39 | 43.50 | 45.66 | 11.89 | 1.12 | 31.56 | - | - | Peak |
| 171.21 | 26.73 | -16.77 | 43.50 | 47.49 | 9.53 | 1.23 | 31.52 | - | - | Peak |
| 366.50 | 33.93 | -12.07 | 46.00 | 47.88 | 15.24 | 2.07 | 31.26 | - | - | Peak |
| 433.70 | 23.42 | -22.58 | 46.00 | 35.48 | 16.81 | 2.26 | 31.13 | - | - | Peak |
| 864.20 | 27.90 | -18.10 | 46.00 | 32.49 | 22.84 | 3.29 | 30.72 | - | - | Peak |
| 2353.70 | 33.14 | -20.86 | 54.00 | 29.71 | 32.08 | 5.49 | 34.14 | 200 | 340 | Average |
| 2353.70 | 45.89 | -28.11 | 74.00 | 42.46 | 32.08 | 5.49 | 34.14 | 200 | 340 | Peak |
| 2412.00 | 88.79 | - | - | 85.35 | 32.16 | 5.44 | 34.16 | 200 | 340 | Average |
| 2412.00 | 92.68 | - | - | 89.24 | 32.16 | 5.44 | 34.16 | 200 | 340 | Peak |
| 2492.00 | 43.91 | -30.09 | 74.00 | 40.44 | 32.30 | 5.37 | 34.20 | 200 | 340 | Peak |
| 2492.00 | 32.61 | -21.39 | 54.00 | 29.14 | 32.30 | 5.37 | 34.20 | 200 | 340 | Average |
| 8361.00 | 54.83 | -19.17 | 74.00 | 43.84 | 36.00 | 10.09 | 35.10 | 100 | 217 | Peak |
| 8361.00 | 40.85 | -13.15 | 54.00 | 29.86 | 36.00 | 10.09 | 35.10 | 100 | 217 | Average |

| Test Mode : | Mode 2 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 167.97 | 32.05 | -11.45 | 43.50 | 52.53 | 9.81 | 1.23 | 31.52 | - | - | Peak |
| 202.26 | 26.31 | -17.19 | 43.50 | 47.61 | 8.85 | 1.33 | 31.48 | - | - | Peak |
| 299.46 | 28.46 | -17.54 | 46.00 | 44.56 | 13.46 | 1.77 | 31.33 | - | - | Peak |
| 366.50 | 36.03 | -9.97 | 46.00 | 49.98 | 15.24 | 2.07 | 31.26 | 100 | 145 | Peak |
| 478.50 | 24.92 | -21.08 | 46.00 | 35.89 | 17.72 | 2.37 | 31.06 | - | - | Peak |
| 719.30 | 27.18 | -18.82 | 46.00 | 33.85 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 2372.00 | 44.93 | -29.07 | 74.00 | 41.50 | 32.11 | 5.47 | 34.15 | 164 | 313 | Peak |
| 2372.00 | 33.16 | -20.84 | 54.00 | 29.73 | 32.11 | 5.47 | 34.15 | 164 | 313 | Average |
| 2437.00 | 100.75 | - | - | 97.29 | 32.22 | 5.41 | 34.17 | 164 | 313 | Peak |
| 2437.00 | 97.00 | - | - | 93.54 | 32.22 | 5.41 | 34.17 | 164 | 313 | Average |
| 2494.00 | 33.20 | -20.80 | 54.00 | 29.73 | 32.30 | 5.37 | 34.20 | 164 | 313 | Average |
| 2494.00 | 44.82 | -29.18 | 74.00 | 41.35 | 32.30 | 5.37 | 34.20 | 164 | 313 | Peak |
| 8382.00 | 54.36 | -19.64 | 74.00 | 43.36 | 36.00 | 10.10 | 35.10 | 100 | 95 | Peak |
| 8382.00 | 40.99 | -13.01 | 54.00 | 29.99 | 36.00 | 10.10 | 35.10 | 100 | 95 | Average |

| Test Mode : | Mode 2 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 41.61 | 26.47 | -13.53 | 40.00 | 44.55 | 12.80 | 0.63 | 31.51 | - | - | Peak |
| 85.62 | 29.66 | -10.34 | 40.00 | 52.06 | 8.23 | 0.91 | 31.54 | 100 | 211 | Peak |
| 175.53 | 25.89 | -17.61 | 43.50 | 46.91 | 9.27 | 1.24 | 31.53 | - | - | Peak |
| 365.80 | 33.01 | -12.99 | 46.00 | 46.99 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 430.90 | 24.04 | -21.96 | 46.00 | 36.17 | 16.75 | 2.25 | 31.13 | - | - | Peak |
| 900.60 | 27.15 | -18.85 | 46.00 | 31.32 | 23.19 | 3.34 | 30.70 | - | - | Peak |
| 2316.00 | 44.31 | -29.69 | 74.00 | 40.91 | 32.00 | 5.53 | 34.13 | 143 | 318 | Peak |
| 2316.00 | 33.02 | -20.98 | 54.00 | 29.62 | 32.00 | 5.53 | 34.13 | 143 | 318 | Average |
| 2437.00 | 92.85 | - | - | 89.39 | 32.22 | 5.41 | 34.17 | 143 | 318 | Peak |
| 2437.00 | 88.97 | - | - | 85.51 | 32.22 | 5.41 | 34.17 | 143 | 318 | Average |
| 2500.00 | 32.48 | -21.52 | 54.00 | 29.01 | 32.30 | 5.37 | 34.20 | 143 | 318 | Average |
| 2500.00 | 43.98 | -30.02 | 74.00 | 40.51 | 32.30 | 5.37 | 34.20 | 143 | 318 | Peak |
| 8358.00 | 54.88 | -19.12 | 74.00 | 43.89 | 36.00 | 10.09 | 35.10 | 100 | 96 | Peak |
| 8358.00 | 40.88 | -13.12 | 54.00 | 29.89 | 36.00 | 10.09 | 35.10 | 100 | 96 | Average |

| Test Mode : | Mode 3 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 165.81 | 28.86 | -14.64 | 43.50 | 49.19 | 9.96 | 1.23 | 31.52 | - | - | Peak |
| 175.53 | 30.44 | -13.06 | 43.50 | 51.46 | 9.27 | 1.24 | 31.53 | - | - | Peak |
| 299.73 | 28.52 | -17.48 | 46.00 | 44.62 | 13.46 | 1.77 | 31.33 | - | - | Peak |
| 365.80 | 36.32 | -9.68 | 46.00 | 50.30 | 15.21 | 2.07 | 31.26 | 100 | 211 | Peak |
| 433.70 | 25.42 | -20.58 | 46.00 | 37.48 | 16.81 | 2.26 | 31.13 | - | - | Peak |
| 719.30 | 27.45 | -18.55 | 46.00 | 34.12 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 2356.00 | 44.32 | -29.68 | 74.00 | 40.89 | 32.08 | 5.49 | 34.14 | 197 | 318 | Peak |
| 2356.00 | 33.06 | -20.94 | 54.00 | 29.63 | 32.08 | 5.49 | 34.14 | 197 | 318 | Average |
| 2462.00 | 98.73 | - | - | 95.27 | 32.24 | 5.40 | 34.18 | 197 | 318 | Peak |
| 2462.00 | 94.82 | - | - | 91.36 | 32.24 | 5.40 | 34.18 | 197 | 318 | Average |
| 2484.42 | 33.14 | -20.86 | 54.00 | 29.68 | 32.27 | 5.38 | 34.19 | 197 | 318 | Average |
| 2484.42 | 45.65 | -28.35 | 74.00 | 42.19 | 32.27 | 5.38 | 34.19 | 197 | 318 | Peak |
| 8298.00 | 54.88 | -19.12 | 74.00 | 43.94 | 36.00 | 10.04 | 35.10 | 100 | 91 | Peak |
| 8298.00 | 40.83 | -13.17 | 54.00 | 29.89 | 36.00 | 10.04 | 35.10 | 100 | 91 | Average |

| Test Mode : | Mode 3 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 94.53 | 25.12 | -18.38 | 43.50 | 46.06 | 9.61 | 0.98 | 31.53 | - | - | Peak |
| 174.18 | 32.06 | -11.44 | 43.50 | 53.02 | 9.32 | 1.24 | 31.52 | 100 | 102 | Peak |
| 299.73 | 24.99 | -21.01 | 46.00 | 41.09 | 13.46 | 1.77 | 31.33 | - | - | Peak |
| 366.50 | 29.06 | -16.94 | 46.00 | 43.01 | 15.24 | 2.07 | 31.26 | - | - | Peak |
| 430.90 | 22.88 | -23.12 | 46.00 | 35.01 | 16.75 | 2.25 | 31.13 | - | - | Peak |
| 719.30 | 25.20 | -20.80 | 46.00 | 31.87 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 2316.00 | 44.69 | -29.31 | 74.00 | 41.29 | 32.00 | 5.53 | 34.13 | 130 | 20 | Peak |
| 2316.00 | 32.98 | -21.02 | 54.00 | 29.58 | 32.00 | 5.53 | 34.13 | 130 | 20 | Average |
| 2462.00 | 90.86 | - | - | 87.40 | 32.24 | 5.40 | 34.18 | 130 | 20 | Peak |
| 2462.00 | 87.22 | - | - | 83.76 | 32.24 | 5.40 | 34.18 | 130 | 20 | Average |
| 2494.49 | 32.46 | -21.54 | 54.00 | 28.99 | 32.30 | 5.37 | 34.20 | 130 | 20 | Average |
| 2494.49 | 44.56 | -29.44 | 74.00 | 41.09 | 32.30 | 5.37 | 34.20 | 130 | 20 | Peak |
| 8337.00 | 54.94 | -19.06 | 74.00 | 43.97 | 36.00 | 10.07 | 35.10 | 100 | 91 | Peak |
| 8337.00 | 40.86 | -13.14 | 54.00 | 29.89 | 36.00 | 10.07 | 35.10 | 100 | 91 | Average |

| Test Mode : | Mode 4 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2312.66 | 46.79 | -27.21 | 74.00 | 43.38 | 32.00 | 5.53 | 34.12 | 140 | 320 | Peak |
| 2312.66 | 33.40 | -20.60 | 54.00 | 29.99 | 32.00 | 5.53 | 34.12 | 140 | 320 | Average |
| 2412.00 | 95.82 | - | - | 92.38 | 32.16 | 5.44 | 34.16 | 140 | 320 | Peak |
| 2412.00 | 86.10 | - | - | 82.66 | 32.16 | 5.44 | 34.16 | 140 | 320 | Average |
| 2500.00 | 32.73 | -21.27 | 54.00 | 29.26 | 32.30 | 5.37 | 34.20 | 140 | 320 | Average |
| 2500.00 | 45.17 | -28.83 | 74.00 | 41.70 | 32.30 | 5.37 | 34.20 | 140 | 320 | Peak |

| Test Mode : | Mode 4 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2330.33 | 45.65 | -28.35 | 74.00 | 42.25 | 32.02 | 5.51 | 34.13 | 200 | 340 | Peak |
| 2330.33 | 33.25 | -20.75 | 54.00 | 29.85 | 32.02 | 5.51 | 34.13 | 200 | 340 | Average |
| 2412.00 | 88.79 | - | - | 85.35 | 32.16 | 5.44 | 34.16 | 200 | 340 | Peak |
| 2412.00 | 79.18 | - | - | 75.74 | 32.16 | 5.44 | 34.16 | 200 | 340 | Average |
| 2484.00 | 32.79 | -21.21 | 54.00 | 29.33 | 32.27 | 5.38 | 34.19 | 200 | 340 | Average |
| 2484.00 | 44.08 | -29.92 | 74.00 | 40.62 | 32.27 | 5.38 | 34.19 | 200 | 340 | Peak |

| Test Mode : | Mode 5 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2340.00 | 44.97 | -29.03 | 74.00 | 41.56 | 32.05 | 5.50 | 34.14 | 164 | 312 | Peak |
| 2340.00 | 33.33 | -20.67 | 54.00 | 29.92 | 32.05 | 5.50 | 34.14 | 164 | 312 | Average |
| 2437.00 | 97.38 | - | - | 93.92 | 32.22 | 5.41 | 34.17 | 164 | 312 | Peak |
| 2437.00 | 87.68 | - | - | 84.22 | 32.22 | 5.41 | 34.17 | 164 | 312 | Average |
| 2492.00 | 32.88 | -21.12 | 54.00 | 29.41 | 32.30 | 5.37 | 34.20 | 164 | 312 | Average |
| 2492.00 | 44.07 | -29.93 | 74.00 | 40.60 | 32.30 | 5.37 | 34.20 | 164 | 312 | Peak |

| Test Mode : | Mode 5 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2334.00 | 45.48 | -28.52 | 74.00 | 42.08 | 32.02 | 5.51 | 34.13 | 196 | 360 | Peak |
| 2334.00 | 33.26 | -20.74 | 54.00 | 29.86 | 32.02 | 5.51 | 34.13 | 196 | 360 | Average |
| 2437.00 | 89.78 | - | - | 86.33 | 32.19 | 5.43 | 34.17 | 196 | 360 | Peak |
| 2437.00 | 80.12 | - | - | 76.66 | 32.22 | 5.41 | 34.17 | 196 | 360 | Average |
| 2486.00 | 32.68 | -21.32 | 54.00 | 29.22 | 32.27 | 5.38 | 34.19 | 196 | 360 | Average |
| 2486.00 | 43.86 | -30.14 | 74.00 | 40.40 | 32.27 | 5.38 | 34.19 | 196 | 360 | Peak |

| Test Mode : | Mode 6 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2340.00 | 44.58 | -29.42 | 74.00 | 41.17 | 32.05 | 5.50 | 34.14 | 197 | 320 | Peak |
| 2340.00 | 33.22 | -20.78 | 54.00 | 29.81 | 32.05 | 5.50 | 34.14 | 197 | 320 | Average |
| 2462.00 | 95.26 | - | - | 91.80 | 32.24 | 5.40 | 34.18 | 197 | 320 | Peak |
| 2462.00 | 85.40 | - | - | 81.94 | 32.24 | 5.40 | 34.18 | 197 | 320 | Average |
| 2492.21 | 32.85 | -21.15 | 54.00 | 29.38 | 32.30 | 5.37 | 34.20 | 197 | 320 | Average |
| 2492.21 | 45.64 | -28.36 | 74.00 | 42.17 | 32.30 | 5.37 | 34.20 | 197 | 320 | Peak |

| Test Mode : | Mode 6 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2358.00 | 45.22 | -28.78 | 74.00 | 41.79 | 32.08 | 5.49 | 34.14 | 160 | 355 | Peak |
| 2358.00 | 33.23 | -20.77 | 54.00 | 29.80 | 32.08 | 5.49 | 34.14 | 160 | 355 | Average |
| 2462.00 | 89.21 | - | - | 85.75 | 32.24 | 5.40 | 34.18 | 160 | 355 | Peak |
| 2462.00 | 79.53 | - | - | 76.07 | 32.24 | 5.40 | 34.18 | 160 | 355 | Average |
| 2487.46 | 32.65 | -21.35 | 54.00 | 29.19 | 32.27 | 5.38 | 34.19 | 160 | 355 | Average |
| 2487.46 | 44.82 | -29.18 | 74.00 | 41.36 | 32.27 | 5.38 | 34.19 | 160 | 355 | Peak |

| Test Mode : | Mode 7 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 52.14 | 33.48 | -6.52 | 40.00 | 56.74 | 7.57 | 0.71 | 31.54 | 100 | 212 | Peak |
| 169.86 | 32.14 | -11.36 | 43.50 | 52.76 | 9.67 | 1.23 | 31.52 | - | - | Peak |
| 299.46 | 29.81 | -16.19 | 46.00 | 45.91 | 13.46 | 1.77 | 31.33 | - | - | Peak |
| 365.80 | 36.28 | -9.72 | 46.00 | 50.26 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 528.20 | 25.30 | -20.70 | 46.00 | 35.10 | 18.71 | 2.51 | 31.02 | - | - | Peak |
| 719.30 | 25.76 | -20.24 | 46.00 | 32.43 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 2375.17 | 33.15 | -20.85 | 54.00 | 29.72 | 32.11 | 5.47 | 34.15 | 124 | 235 | Average |
| 2375.17 | 45.37 | -28.63 | 74.00 | 41.94 | 32.11 | 5.47 | 34.15 | 124 | 235 | Peak |
| 2412.00 | 94.58 | - | - | 91.14 | 32.16 | 5.44 | 34.16 | 124 | 235 | Peak |
| 2412.00 | 82.13 | - | - | 78.69 | 32.16 | 5.44 | 34.16 | 124 | 235 | Average |
| 2492.00 | 32.48 | -21.52 | 54.00 | 29.01 | 32.30 | 5.37 | 34.20 | 124 | 235 | Average |
| 2492.00 | 43.81 | -30.19 | 74.00 | 40.34 | 32.30 | 5.37 | 34.20 | 124 | 235 | Peak |
| 8442.00 | 55.19 | -18.81 | 74.00 | 44.15 | 36.00 | 10.14 | 35.10 | 100 | 93 | Peak |
| 8442.00 | 41.00 | -13.00 | 54.00 | 29.96 | 36.00 | 10.14 | 35.10 | 100 | 93 | Average |

| Test Mode : | Mode 7 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 01 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 90.21 | 31.42 | -12.08 | 43.50 | 53.12 | 8.88 | 0.94 | 31.52 | - | - | Peak |
| 177.42 | 32.52 | -10.98 | 43.50 | 53.63 | 9.18 | 1.24 | 31.53 | 100 | 2 | Peak |
| 299.46 | 25.73 | -20.27 | 46.00 | 41.83 | 13.46 | 1.77 | 31.33 | - | - | Peak |
| 315.40 | 26.96 | -19.04 | 46.00 | 42.61 | 13.87 | 1.80 | 31.32 | - | - | Peak |
| 365.80 | 33.57 | -12.43 | 46.00 | 47.55 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 719.30 | 25.16 | -20.84 | 46.00 | 31.83 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 2336.41 | 33.07 | -20.93 | 54.00 | 29.65 | 32.05 | 5.50 | 34.13 | 100 | 133 | Average |
| 2336.41 | 46.09 | -27.91 | 74.00 | 42.67 | 32.05 | 5.50 | 34.13 | 100 | 133 | Peak |
| 2412.00 | 88.18 | - | - | 84.74 | 32.16 | 5.44 | 34.16 | 100 | 133 | Peak |
| 2412.00 | 76.89 | - | - | 73.45 | 32.16 | 5.44 | 34.16 | 100 | 133 | Average |
| 2494.00 | 32.48 | -21.52 | 54.00 | 29.01 | 32.30 | 5.37 | 34.20 | 100 | 133 | Average |
| 2494.00 | 44.82 | -29.18 | 74.00 | 41.35 | 32.30 | 5.37 | 34.20 | 100 | 133 | Peak |
| 8430.00 | 54.63 | -19.37 | 74.00 | 43.60 | 36.00 | 10.13 | 35.10 | 100 | 91 | Peak |
| 8430.00 | 41.01 | -12.99 | 54.00 | 29.98 | 36.00 | 10.13 | 35.10 | 100 | 91 | Average |

| Test Mode : | Mode 8 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 38.37 | 23.18 | -16.82 | 40.00 | 39.48 | 14.59 | 0.61 | 31.50 | - | - | Peak |
| 175.26 | 28.18 | -15.32 | 43.50 | 49.20 | 9.27 | 1.24 | 31.53 | - | - | Peak |
| 299.46 | 25.81 | -20.19 | 46.00 | 41.91 | 13.46 | 1.77 | 31.33 | - | - | Peak |
| 366.50 | 35.98 | -10.02 | 46.00 | 49.93 | 15.24 | 2.07 | 31.26 | 100 | 102 | Peak |
| 478.50 | 25.01 | -20.99 | 46.00 | 35.98 | 17.72 | 2.37 | 31.06 | - | - | Peak |
| 719.30 | 26.52 | -19.48 | 46.00 | 33.19 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 2374.00 | 45.08 | -28.92 | 74.00 | 41.65 | 32.11 | 5.47 | 34.15 | 122 | 231 | Peak |
| 2374.00 | 33.13 | -20.87 | 54.00 | 29.70 | 32.11 | 5.47 | 34.15 | 122 | 231 | Average |
| 2437.00 | 94.88 | - | - | 91.43 | 32.22 | 5.41 | 34.18 | 122 | 231 | Peak |
| 2437.00 | 82.74 | - | - | 79.28 | 32.22 | 5.41 | 34.17 | 122 | 231 | Average |
| 2500.00 | 32.61 | -21.39 | 54.00 | 29.14 | 32.30 | 5.37 | 34.20 | 122 | 231 | Average |
| 2500.00 | 44.16 | -29.84 | 74.00 | 40.69 | 32.30 | 5.37 | 34.20 | 122 | 231 | Peak |
| 8322.00 | 54.95 | -19.05 | 74.00 | 43.99 | 36.00 | 10.06 | 35.10 | 100 | 178 | Peak |
| 8322.00 | 41.52 | -12.48 | 54.00 | 30.56 | 36.00 | 10.06 | 35.10 | 100 | 178 | Average |

| Test Mode : | Mode 8 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 30.00 | 27.49 | -12.51 | 40.00 | 38.91 | 19.51 | 0.53 | 31.46 | - | - | Peak |
| 95.34 | 26.17 | -17.33 | 43.50 | 47.11 | 9.61 | 0.98 | 31.53 | - | - | Peak |
| 180.93 | 26.87 | -16.63 | 43.50 | 48.12 | 9.03 | 1.25 | 31.53 | - | - | Peak |
| 366.50 | 33.93 | -12.07 | 46.00 | 47.88 | 15.24 | 2.07 | 31.26 | 100 | 225 | Peak |
| 433.70 | 23.42 | -22.58 | 46.00 | 35.48 | 16.81 | 2.26 | 31.13 | - | - | Peak |
| 864.20 | 27.90 | -18.10 | 46.00 | 32.49 | 22.84 | 3.29 | 30.72 | - | - | Peak |
| 2340.00 | 44.45 | -29.55 | 74.00 | 41.04 | 32.05 | 5.50 | 34.14 | 100 | 133 | Peak |
| 2340.00 | 33.05 | -20.95 | 54.00 | 29.64 | 32.05 | 5.50 | 34.14 | 100 | 133 | Average |
| 2437.00 | 88.91 | - | - | 85.45 | 32.22 | 5.41 | 34.17 | 100 | 133 | Peak |
| 2437.00 | 77.22 | - | - | 73.76 | 32.22 | 5.41 | 34.17 | 100 | 133 | Average |
| 2500.00 | 32.46 | -21.54 | 54.00 | 28.99 | 32.30 | 5.37 | 34.20 | 100 | 133 | Average |
| 2500.00 | 44.14 | -29.86 | 74.00 | 40.67 | 32.30 | 5.37 | 34.20 | 100 | 133 | Peak |
| 8298.00 | 55.08 | -18.92 | 74.00 | 44.14 | 36.00 | 10.04 | 35.10 | 100 | 284 | Peak |
| 8298.00 | 40.80 | -13.20 | 54.00 | 29.86 | 36.00 | 10.04 | 35.10 | 100 | 284 | Average |

| Test Mode : | Mode 9 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 38.37 | 27.89 | -12.11 | 40.00 | 44.19 | 14.59 | 0.61 | 31.50 | - | - | Peak |
| 161.22 | 30.02 | -13.48 | 43.50 | 50.01 | 10.31 | 1.22 | 31.52 | - | - | Peak |
| 177.42 | 32.96 | -10.54 | 43.50 | 54.07 | 9.18 | 1.24 | 31.53 | 100 | 215 | Peak |
| 318.90 | 32.57 | -13.43 | 46.00 | 48.11 | 13.97 | 1.81 | 31.32 | - | - | Peak |
| 365.80 | 35.23 | -10.77 | 46.00 | 49.21 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 915.30 | 26.31 | -19.69 | 46.00 | 30.18 | 23.41 | 3.38 | 30.66 | - | - | Peak |
| 2348.00 | 44.25 | -29.75 | 74.00 | 40.84 | 32.05 | 5.50 | 34.14 | 125 | 112 | Peak |
| 2348.00 | 33.13 | -20.87 | 54.00 | 29.72 | 32.05 | 5.50 | 34.14 | 125 | 112 | Average |
| 2462.00 | 94.78 | - | - | 91.33 | 32.24 | 5.40 | 34.19 | 125 | 112 | Peak |
| 2462.00 | 82.69 | - | - | 79.23 | 32.24 | 5.40 | 34.18 | 125 | 112 | Average |
| 2492.21 | 32.63 | -21.37 | 54.00 | 29.16 | 32.30 | 5.37 | 34.20 | 125 | 112 | Average |
| 2492.21 | 44.80 | -29.20 | 74.00 | 41.33 | 32.30 | 5.37 | 34.20 | 125 | 112 | Peak |
| 8394.00 | 54.46 | -19.54 | 74.00 | 43.45 | 36.00 | 10.11 | 35.10 | 100 | 68 | Peak |
| 8394.00 | 41.57 | -12.43 | 54.00 | 30.56 | 36.00 | 10.11 | 35.10 | 100 | 68 | Average |

| Test Mode : | Mode 9 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 11 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 34.05 | 32.98 | -7.02 | 40.00 | 46.59 | 17.29 | 0.57 | 31.47 | 100 | 215 | Peak |
| 82.65 | 29.82 | -10.18 | 40.00 | 52.63 | 7.83 | 0.89 | 31.53 | - | - | Peak |
| 177.69 | 27.09 | -16.41 | 43.50 | 48.20 | 9.18 | 1.24 | 31.53 | - | - | Peak |
| 365.80 | 33.17 | -12.83 | 46.00 | 47.15 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 433.70 | 23.80 | -22.20 | 46.00 | 35.86 | 16.81 | 2.26 | 31.13 | - | - | Peak |
| 864.20 | 28.85 | -17.15 | 46.00 | 33.44 | 22.84 | 3.29 | 30.72 | - | - | Peak |
| 2372.00 | 44.16 | -29.84 | 74.00 | 40.73 | 32.11 | 5.47 | 34.15 | 100 | 125 | Peak |
| 2372.00 | 32.98 | -21.02 | 54.00 | 29.55 | 32.11 | 5.47 | 34.15 | 100 | 125 | Average |
| 2462.00 | 89.11 | - | - | 85.65 | 32.24 | 5.40 | 34.18 | 100 | 125 | Peak |
| 2462.00 | 77.85 | - | - | 74.39 | 32.24 | 5.40 | 34.18 | 100 | 125 | Average |
| 2489.17 | 32.46 | -21.54 | 54.00 | 28.98 | 32.30 | 5.37 | 34.19 | 100 | 125 | Average |
| 2489.17 | 44.81 | -29.19 | 74.00 | 41.33 | 32.30 | 5.37 | 34.19 | 100 | 125 | Peak |
| 8409.00 | 54.81 | -19.19 | 74.00 | 43.79 | 36.00 | 10.12 | 35.10 | 100 | 88 | Peak |
| 8409.00 | 41.90 | -12.10 | 54.00 | 30.88 | 36.00 | 10.12 | 35.10 | 100 | 88 | Average |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 10 | **Temperature :** | 24~25°C |
| **Test Channel :** | 03 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Horizontal |
| **Remark :** | 2422 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2389.42 | 48.61 | -25.39 | 74.00 | 45.17 | 32.13 | 5.46 | 34.15 | 125 | 233 | Peak |
| 2389.42 | 33.89 | -20.11 | 54.00 | 30.45 | 32.13 | 5.46 | 34.15 | 125 | 233 | Average |
| 2422.00 | 92.45 | - | - | 89.01 | 32.16 | 5.44 | 34.16 | 125 | 233 | Peak |
| 2422.00 | 79.20 | - | - | 75.75 | 32.19 | 5.43 | 34.17 | 125 | 233 | Average |
| 2500.00 | 32.49 | -21.51 | 54.00 | 29.02 | 32.30 | 5.37 | 34.20 | 125 | 233 | Average |
| 2500.00 | 43.66 | -30.34 | 74.00 | 40.19 | 32.30 | 5.37 | 34.20 | 125 | 233 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 10 | **Temperature :** | 24~25°C |
| **Test Channel :** | 03 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Vertical |
| **Remark :** | 2422 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2351.61 | 32.96 | -21.04 | 54.00 | 29.53 | 32.08 | 5.49 | 34.14 | 128 | 120 | Average |
| 2351.61 | 45.06 | -28.94 | 74.00 | 41.63 | 32.08 | 5.49 | 34.14 | 128 | 120 | Peak |
| 2422.00 | 86.22 | - | - | 82.77 | 32.19 | 5.43 | 34.17 | 128 | 120 | Peak |
| 2422.00 | 74.28 | - | - | 70.83 | 32.19 | 5.43 | 34.17 | 128 | 120 | Average |
| 2494.00 | 32.30 | -21.70 | 54.00 | 28.83 | 32.30 | 5.37 | 34.20 | 128 | 120 | Average |
| 2494.00 | 44.43 | -29.57 | 74.00 | 40.96 | 32.30 | 5.37 | 34.20 | 128 | 120 | Peak |

| Test Mode : | Mode 11 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2334.00 | 44.71 | -29.29 | 74.00 | 41.31 | 32.02 | 5.51 | 34.13 | 122 | 231 | Peak |
| 2334.00 | 33.00 | -21.00 | 54.00 | 29.60 | 32.02 | 5.51 | 34.13 | 122 | 231 | Average |
| 2437.00 | 92.02 | - | - | 88.57 | 32.22 | 5.41 | 34.18 | 122 | 231 | Peak |
| 2437.00 | 79.08 | - | - | 75.62 | 32.22 | 5.41 | 34.17 | 122 | 231 | Average |
| 2494.00 | 32.44 | -21.56 | 54.00 | 28.97 | 32.30 | 5.37 | 34.20 | 122 | 231 | Average |
| 2494.00 | 43.21 | -30.79 | 74.00 | 39.74 | 32.30 | 5.37 | 34.20 | 122 | 231 | Peak |

| Test Mode : | Mode 11 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 06 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2324.00 | 44.70 | -29.30 | 74.00 | 41.30 | 32.02 | 5.51 | 34.13 | 103 | 120 | Peak |
| 2324.00 | 32.92 | -21.08 | 54.00 | 29.52 | 32.02 | 5.51 | 34.13 | 103 | 120 | Average |
| 2437.00 | 86.63 | - | - | 83.17 | 32.22 | 5.41 | 34.17 | 103 | 120 | Peak |
| 2437.00 | 74.77 | - | - | 71.31 | 32.22 | 5.41 | 34.17 | 103 | 120 | Average |
| 2494.00 | 32.33 | -21.67 | 54.00 | 28.86 | 32.30 | 5.37 | 34.20 | 103 | 120 | Average |
| 2494.00 | 44.08 | -29.92 | 74.00 | 40.61 | 32.30 | 5.37 | 34.20 | 103 | 120 | Peak |

| Test Mode : | Mode 12 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 09 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 2452 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2310.00 | 45.17 | -28.83 | 74.00 | 41.76 | 32.00 | 5.53 | 34.12 | 122 | 98 | Peak |
| 2310.00 | 33.09 | -20.91 | 54.00 | 29.68 | 32.00 | 5.53 | 34.12 | 122 | 98 | Average |
| 2452.00 | 91.08 | - | - | 87.63 | 32.22 | 5.41 | 34.18 | 122 | 98 | Peak |
| 2452.00 | 78.41 | - | - | 74.96 | 32.22 | 5.41 | 34.18 | 122 | 98 | Average |
| 2483.66 | 33.56 | -20.44 | 54.00 | 30.10 | 32.27 | 5.38 | 34.19 | 122 | 98 | Average |
| 2483.66 | 48.17 | -25.83 | 74.00 | 44.71 | 32.27 | 5.38 | 34.19 | 122 | 98 | Peak |

| Test Mode : | Mode 12 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 09 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 2452 MHz is Fundamental Signals which can be ignored. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 2334.00 | 44.64 | -29.36 | 74.00 | 41.24 | 32.02 | 5.51 | 34.13 | 105 | 120 | Peak |
| 2334.00 | 32.92 | -21.08 | 54.00 | 29.52 | 32.02 | 5.51 | 34.13 | 105 | 120 | Average |
| 2452.00 | 86.57 | - | - | 83.12 | 32.22 | 5.41 | 34.18 | 105 | 120 | Peak |
| 2452.00 | 74.79 | - | - | 71.34 | 32.22 | 5.41 | 34.18 | 105 | 120 | Average |
| 2497.53 | 32.57 | -21.43 | 54.00 | 29.10 | 32.30 | 5.37 | 34.20 | 105 | 120 | Average |
| 2497.53 | 44.95 | -29.05 | 74.00 | 41.48 | 32.30 | 5.37 | 34.20 | 105 | 120 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 13 | **Temperature :** | 24~25°C |
| **Test Channel :** | 149 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Horizontal |
| **Remark :** | 1. 5745 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 73.32 | -4.87 | 78.19 | 64.40 | 35.01 | 8.40 | 34.49 | 154 | 217 | Peak |
| 5745.00 | 88.34 | - | - | 79.39 | 35.04 | 8.41 | 34.50 | 154 | 217 | Average |
| 5745.00 | 98.19 | - | - | 89.24 | 35.04 | 8.41 | 34.50 | 154 | 217 | Peak |
| 5850.00 | 49.41 | -28.78 | 78.19 | 40.34 | 35.18 | 8.43 | 34.54 | 154 | 217 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 13 | **Temperature :** | 24~25°C |
| **Test Channel :** | 149 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Vertical |
| **Remark :** | 1. 5745 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 66.95 | -7.49 | 74.44 | 58.03 | 35.01 | 8.40 | 34.49 | 200 | 349 | Peak |
| 5745.00 | 84.69 | - | - | 75.74 | 35.04 | 8.41 | 34.50 | 200 | 349 | Average |
| 5745.00 | 94.44 | - | - | 85.49 | 35.04 | 8.41 | 34.50 | 200 | 349 | Peak |
| 5850.00 | 50.07 | -24.37 | 74.44 | 41.00 | 35.18 | 8.43 | 34.54 | 200 | 349 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 14 | **Temperature :** | 24~25°C |
| **Test Channel :** | 157 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Horizontal |
| **Remark :** | 1. 5785 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 50.37 | -28.72 | 79.09 | 41.45 | 35.01 | 8.40 | 34.49 | 158 | 164 | Peak |
| 5785.00 | 89.33 | - | - | 80.34 | 35.09 | 8.42 | 34.52 | 158 | 164 | Average |
| 5785.00 | 99.09 | - | - | 90.08 | 35.11 | 8.42 | 34.52 | 158 | 164 | Peak |
| 5850.00 | 49.41 | -29.68 | 79.09 | 40.34 | 35.18 | 8.43 | 34.54 | 158 | 164 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 14 | **Temperature :** | 24~25°C |
| **Test Channel :** | 157 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Vertical |
| **Remark :** | 1. 5785 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 49.11 | -26.35 | 75.46 | 40.19 | 35.01 | 8.40 | 34.49 | 155 | 345 | Peak |
| 5785.00 | 85.30 | - | - | 76.31 | 35.09 | 8.42 | 34.52 | 155 | 345 | Average |
| 5785.00 | 95.46 | - | - | 86.45 | 35.11 | 8.42 | 34.52 | 155 | 345 | Peak |
| 5850.00 | 49.00 | -26.46 | 75.46 | 39.93 | 35.18 | 8.43 | 34.54 | 155 | 345 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 15 | **Temperature :** | 24~25°C |
| **Test Channel :** | 165 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Horizontal |
| **Remark :** | 1. 5825 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 49.42 | -29.56 | 78.98 | 40.50 | 35.01 | 8.40 | 34.49 | 157 | 162 | Peak |
| 5825.00 | 89.10 | - | - | 80.04 | 35.16 | 8.43 | 34.53 | 157 | 162 | Average |
| 5825.00 | 98.98 | - | - | 89.92 | 35.16 | 8.43 | 34.53 | 157 | 162 | Peak |
| 5850.00 | 65.00 | -13.98 | 78.98 | 55.93 | 35.18 | 8.43 | 34.54 | 157 | 162 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 15 | **Temperature :** | 24~25°C |
| **Test Channel :** | 165 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Vertical |
| **Remark :** | 1. 5825 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 49.16 | -26.95 | 76.11 | 40.24 | 35.01 | 8.40 | 34.49 | 155 | 351 | Peak |
| 5825.00 | 86.52 | - | - | 77.46 | 35.16 | 8.43 | 34.53 | 155 | 351 | Average |
| 5825.00 | 96.11 | - | - | 87.05 | 35.16 | 8.43 | 34.53 | 155 | 351 | Peak |
| 5850.00 | 64.00 | -12.11 | 76.11 | 54.93 | 35.18 | 8.43 | 34.54 | 155 | 351 | Peak |

| Test Mode : | Mode 16 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 149 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 1. 5745 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 39.18 | 25.25 | -14.75 | 40.00 | 41.55 | 14.59 | 0.61 | 31.50 | - | - | Peak |
| 156.90 | 24.98 | -18.52 | 43.50 | 44.66 | 10.63 | 1.22 | 31.53 | - | - | Peak |
| 168.78 | 29.36 | -14.14 | 43.50 | 49.91 | 9.74 | 1.23 | 31.52 | - | - | Peak |
| 321.00 | 29.82 | -16.18 | 46.00 | 45.30 | 14.03 | 1.81 | 31.32 | - | - | Peak |
| 366.50 | 35.73 | -10.27 | 46.00 | 49.68 | 15.24 | 2.07 | 31.26 | 100 | 357 | Peak |
| 719.30 | 25.90 | -20.10 | 46.00 | 32.57 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 5725.00 | 77.02 | -10.18 | 87.20 | 68.10 | 35.01 | 8.40 | 34.49 | 100 | 330 | Peak |
| 5745.00 | 95.18 | - | - | 86.23 | 35.04 | 8.41 | 34.50 | 100 | 330 | Average |
| 5745.00 | 107.20 | - | - | 98.25 | 35.04 | 8.41 | 34.50 | 100 | 330 | Peak |
| 5850.00 | 49.03 | -38.17 | 87.20 | 39.96 | 35.18 | 8.43 | 34.54 | 100 | 330 | Peak |
| 8374.00 | 55.72 | -18.28 | 74.00 | 44.72 | 36.00 | 10.10 | 35.10 | 100 | 216 | Peak |
| 8374.00 | 40.66 | -13.34 | 54.00 | 29.66 | 36.00 | 10.10 | 35.10 | 100 | 216 | Average |
| 11490.00 | 38.64 | -35.36 | 74.00 | 71.29 | -9.70 | 11.65 | 34.60 | 100 | 0 | Peak |
| 17235.00 | 39.51 | -34.49 | 74.00 | 67.58 | -8.65 | 14.83 | 34.25 | 100 | 0 | Peak |

| Test Mode : | Mode 16 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 149 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 1. 5745 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 81.30 | 32.10 | -7.90 | 40.00 | 55.04 | 7.70 | 0.89 | 31.53 | 100 | 25 | Peak |
| 88.86 | 25.03 | -18.47 | 43.50 | 46.87 | 8.75 | 0.93 | 31.52 | - | - | Peak |
| 172.02 | 27.61 | -15.89 | 43.50 | 48.37 | 9.53 | 1.23 | 31.52 | - | - | Peak |
| 366.50 | 33.90 | -12.10 | 46.00 | 47.85 | 15.24 | 2.07 | 31.26 | - | - | Peak |
| 430.90 | 23.64 | -22.36 | 46.00 | 35.77 | 16.75 | 2.25 | 31.13 | - | - | Peak |
| 864.20 | 27.91 | -18.09 | 46.00 | 32.50 | 22.84 | 3.29 | 30.72 | - | - | Peak |
| 5725.00 | 68.94 | -13.45 | 82.39 | 60.02 | 35.01 | 8.40 | 34.49 | 184 | 66 | Peak |
| 5745.00 | 90.48 | - | - | 81.53 | 35.04 | 8.41 | 34.50 | 184 | 66 | Average |
| 5745.00 | 102.39 | - | - | 93.44 | 35.04 | 8.41 | 34.50 | 184 | 66 | Peak |
| 5850.00 | 49.05 | -39.80 | 82.39 | 39.98 | 35.18 | 8.43 | 34.54 | 184 | 66 | Peak |
| 8436.00 | 54.87 | -19.13 | 74.00 | 43.84 | 36.00 | 10.13 | 35.10 | 100 | 58 | Peak |
| 8436.00 | 40.91 | -13.09 | 54.00 | 29.88 | 36.00 | 10.13 | 35.10 | 100 | 58 | Average |
| 11490.00 | 42.59 | -31.41 | 74.00 | 75.24 | -9.70 | 11.65 | 34.60 | 100 | 0 | Peak |

| Test Mode : | Mode 17 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 157 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 1. 5785 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 31.62 | 22.29 | -17.71 | 40.00 | 34.80 | 18.40 | 0.55 | 31.46 | - | - | Peak |
| 152.58 | 26.28 | -17.22 | 43.50 | 45.58 | 11.04 | 1.21 | 31.55 | - | - | Peak |
| 157.98 | 25.84 | -17.66 | 43.50 | 45.61 | 10.54 | 1.22 | 31.53 | - | - | Peak |
| 318.20 | 33.37 | -12.63 | 46.00 | 48.93 | 13.95 | 1.81 | 31.32 | - | - | Peak |
| 366.50 | 34.38 | -11.62 | 46.00 | 48.33 | 15.24 | 2.07 | 31.26 | 100 | 7 | Peak |
| 864.20 | 25.80 | -20.20 | 46.00 | 30.39 | 22.84 | 3.29 | 30.72 | - | - | Peak |
| 5725.00 | 53.43 | -32.24 | 85.67 | 44.51 | 35.01 | 8.40 | 34.49 | 100 | 329 | Peak |
| 5785.00 | 93.48 | - | - | 84.49 | 35.09 | 8.42 | 34.52 | 100 | 329 | Average |
| 5785.00 | 105.67 | - | - | 96.67 | 35.09 | 8.42 | 34.51 | 100 | 329 | Peak |
| 5850.00 | 48.90 | -36.77 | 85.67 | 39.83 | 35.18 | 8.43 | 34.54 | 100 | 329 | Peak |
| 11570.00 | 41.06 | -32.94 | 74.00 | 73.80 | -9.80 | 11.69 | 34.63 | 100 | 0 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 17 | **Temperature :** | 24~25°C |
| **Test Channel :** | 157 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Vertical |
| **Remark :** | 1. 5785 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 70.77 | 25.46 | -14.54 | 40.00 | 49.50 | 6.68 | 0.84 | 31.56 | - | - | Peak |
| 86.70 | 28.35 | -11.65 | 40.00 | 50.61 | 8.36 | 0.92 | 31.54 | 100 | 9 | Peak |
| 89.13 | 29.77 | -13.73 | 43.50 | 51.61 | 8.75 | 0.93 | 31.52 | - | - | Peak |
| 325.90 | 24.48 | -21.52 | 46.00 | 39.81 | 14.15 | 1.83 | 31.31 | - | - | Peak |
| 365.80 | 30.89 | -15.11 | 46.00 | 44.87 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 805.40 | 25.21 | -20.79 | 46.00 | 30.47 | 22.27 | 3.15 | 30.68 | - | - | Peak |
| 5725.00 | 49.19 | -32.48 | 81.67 | 40.27 | 35.01 | 8.40 | 34.49 | 100 | 110 | Peak |
| 5785.00 | 89.41 | - | - | 80.42 | 35.09 | 8.42 | 34.52 | 100 | 110 | Average |
| 5785.00 | 101.67 | - | - | 92.67 | 35.09 | 8.42 | 34.51 | 100 | 110 | Peak |
| 5850.00 | 49.77 | -31.90 | 81.67 | 40.70 | 35.18 | 8.43 | 34.54 | 100 | 110 | Peak |
| 11570.00 | 41.15 | -32.85 | 74.00 | 73.87 | -9.78 | 11.68 | 34.62 | 100 | 0 | Peak |

| Test Mode : | Mode 18 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Horizontal |
| Remark : | 1. 5825 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 30.00 | 27.46 | -12.54 | 40.00 | 38.88 | 19.51 | 0.53 | 31.46 | - | - | Peak |
| 77.25 | 25.33 | -14.67 | 40.00 | 48.69 | 7.30 | 0.87 | 31.53 | - | - | Peak |
| 176.61 | 32.04 | -11.46 | 43.50 | 53.10 | 9.23 | 1.24 | 31.53 | 100 | 360 | Peak |
| 365.80 | 34.44 | -11.56 | 46.00 | 48.42 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 433.70 | 23.91 | -22.09 | 46.00 | 35.97 | 16.81 | 2.26 | 31.13 | - | - | Peak |
| 719.30 | 25.19 | -20.81 | 46.00 | 31.86 | 21.11 | 2.99 | 30.77 | - | - | Peak |
| 5725.00 | 51.40 | -34.50 | 85.55 | 42.48 | 35.01 | 8.40 | 34.49 | 100 | 328 | Peak |
| 5825.00 | 93.36 | - | - | 84.30 | 35.16 | 8.43 | 34.53 | 100 | 328 | Average |
| 5825.00 | 105.55 | - | - | 96.49 | 35.16 | 8.43 | 34.53 | 100 | 328 | Peak |
| 5850.00 | 69.48 | -16.07 | 85.55 | 60.41 | 35.18 | 8.43 | 34.54 | 100 | 328 | Peak |
| 8414.00 | 54.41 | -19.59 | 74.00 | 43.39 | 36.00 | 10.12 | 35.10 | 100 | 95 | Peak |
| 8414.00 | 40.71 | -13.29 | 54.00 | 29.69 | 36.00 | 10.12 | 35.10 | 100 | 95 | Average |
| 11650.00 | 43.45 | -30.55 | 74.00 | 76.28 | -9.91 | 11.74 | 34.66 | 100 | 0 | Peak |

| Test Mode : | Mode 18 | Temperature : | 24~25°C |
|---|---|---|---|
| Test Channel : | 165 | Relative Humidity : | 43~44% |
| Test Engineer : | Kay Wu | Polarization : | Vertical |
| Remark : | 1. 5825 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 33.78 | 29.17 | -10.83 | 40.00 | 42.78 | 17.29 | 0.57 | 31.47 | 100 | 12 | Peak |
| 89.13 | 32.07 | -11.43 | 43.50 | 53.91 | 8.75 | 0.93 | 31.52 | - | - | Peak |
| 186.06 | 29.45 | -14.05 | 43.50 | 50.73 | 8.97 | 1.27 | 31.52 | - | - | Peak |
| 365.80 | 31.59 | -14.41 | 46.00 | 45.57 | 15.21 | 2.07 | 31.26 | - | - | Peak |
| 430.90 | 23.20 | -22.80 | 46.00 | 35.33 | 16.75 | 2.25 | 31.13 | - | - | Peak |
| 864.20 | 26.50 | -19.50 | 46.00 | 31.09 | 22.84 | 3.29 | 30.72 | - | - | Peak |
| 5725.00 | 49.11 | -31.09 | 80.20 | 40.19 | 35.01 | 8.40 | 34.49 | 100 | 64 | Peak |
| 5825.00 | 88.62 | - | - | 79.56 | 35.16 | 8.43 | 34.53 | 100 | 64 | Average |
| 5825.00 | 100.20 | - | - | 91.14 | 35.16 | 8.43 | 34.53 | 100 | 64 | Peak |
| 5850.00 | 64.88 | -15.32 | 80.20 | 55.81 | 35.18 | 8.43 | 34.54 | 100 | 64 | Peak |
| 8446.00 | 54.86 | -19.14 | 74.00 | 43.82 | 36.00 | 10.14 | 35.10 | 100 | 99 | Peak |
| 8446.00 | 40.73 | -13.27 | 54.00 | 29.69 | 36.00 | 10.14 | 35.10 | 100 | 99 | Average |
| 11650.00 | 44.42 | -29.58 | 74.00 | 77.25 | -9.91 | 11.74 | 34.66 | 100 | 0 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 19 | **Temperature :** | 24~25°C |
| **Test Channel :** | 151 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Horizontal |
| **Remark :** | 1. 5755 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 79.96 | -4.65 | 84.61 | 71.04 | 35.01 | 8.40 | 34.49 | 100 | 331 | Peak |
| 5755.00 | 92.46 | - | - | 83.49 | 35.06 | 8.41 | 34.50 | 100 | 331 | Average |
| 5755.00 | 104.61 | - | - | 95.66 | 35.04 | 8.41 | 34.50 | 100 | 331 | Peak |
| 5850.00 | 49.15 | -35.46 | 84.61 | 40.08 | 35.18 | 8.43 | 34.54 | 100 | 331 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 19 | **Temperature :** | 24~25°C |
| **Test Channel :** | 151 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Vertical |
| **Remark :** | 1. 5755 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 72.46 | -6.97 | 79.43 | 63.54 | 35.01 | 8.40 | 34.49 | 100 | 109 | Peak |
| 5755.00 | 87.23 | - | - | 78.26 | 35.06 | 8.41 | 34.50 | 100 | 109 | Average |
| 5755.00 | 99.43 | - | - | 90.48 | 35.04 | 8.41 | 34.50 | 100 | 109 | Peak |
| 5850.00 | 48.78 | -30.65 | 79.43 | 39.71 | 35.18 | 8.43 | 34.54 | 100 | 109 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 20 | **Temperature :** | 24~25°C |
| **Test Channel :** | 159 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Horizontal |
| **Remark :** | 1. 5795 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 59.33 | -23.53 | 82.86 | 50.41 | 35.01 | 8.40 | 34.49 | 100 | 329 | Peak |
| 5795.00 | 90.97 | - | - | 81.96 | 35.11 | 8.42 | 34.52 | 100 | 329 | Average |
| 5795.00 | 102.86 | - | - | 93.85 | 35.11 | 8.42 | 34.52 | 100 | 329 | Peak |
| 5850.00 | 55.68 | -27.18 | 82.86 | 46.61 | 35.18 | 8.43 | 34.54 | 100 | 329 | Peak |

| | | | |
|---|---|---|---|
| **Test Mode :** | Mode 20 | **Temperature :** | 24~25°C |
| **Test Channel :** | 159 | **Relative Humidity :** | 43~44% |
| **Test Engineer :** | Kay Wu | **Polarization :** | Vertical |
| **Remark :** | 1. 5795 MHz is Fundamental Signals which can be ignored.<br>2. 5725 MHz and 5850 MHz are not within a restricted band. | | |

| Frequency ( MHz ) | Level ( dBuV/m ) | Over Limit ( dB ) | Limit Line ( dBuV/m ) | Read Level (dBuV) | Antenna Factor ( dB ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 5725.00 | 55.38 | -24.44 | 79.82 | 46.46 | 35.01 | 8.40 | 34.49 | 153 | 330 | Peak |
| 5795.00 | 87.69 | - | - | 78.68 | 35.11 | 8.42 | 34.52 | 153 | 330 | Average |
| 5795.00 | 99.82 | - | - | 90.79 | 35.13 | 8.42 | 34.52 | 153 | 330 | Peak |
| 5850.00 | 54.08 | -25.74 | 79.82 | 45.01 | 35.18 | 8.43 | 34.54 | 153 | 330 | Peak |

## 3.4 Antenna Requirements

### 3.4.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

### 3.4.2 Antenna Connected Construction

The antennas type used in this product is PIFA Antenna and it is considered to meet antenna requirement.

### 3.4.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

# 4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|
| EMI Test Receive | R&S | ESCS 30 | 100356 | 9KHz – 2.75GHz | Aug. 05, 2009 | Aug. 04, 2010 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100081 | 9kHz~30MHz | Nov. 30, 2009 | Nov. 29, 2010 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100080 | 9kHz~30MHz | Nov. 23, 2009 | Nov. 22, 2010 | Conduction (CO05-HY) |
| AC Power Source | APC | APC-1000W | N/A | N/A | N/A | N/A | Conduction (CO05-HY) |
| System Simulator | R&S | CMU200 | 105934 | N/A | Nov. 11, 2008 | Nov. 10, 2010 | Conduction (CO05-HY) |
| GPS Station | T&E | GS-50 | N/A | N/A | N/A | N/A | Conduction (CO05-HY) |
| Bilog Antenna | SCHAFFNER | CBL6111C | 2726 | 30MHz ~ 1GHz | Oct. 31, 2009 | Oct. 30, 2010 | Radiation (03CH07-HY) |
| Spectrum Analyzer | R&S | FSP | 101067 | 9KHz ~ 30GHz | Dec. 04, 2009 | Dec. 03, 2010 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO | 3117 | 00075962 | 1GHz ~ 18GHz | Aug. 20, 2009 | Aug. 19, 2010 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 15GHz- 40GHz | Oct. 14, 2009 | Oct. 13, 2010 | Radiation (03CH07-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A02362 | 1GHz~ 26.5GHz | Dec.09,2009 | Dec. 08, 2010 | Radiation (03CH07-HY) |
| Pre Amplifier | COM-POWER | PA-103A | 161241 | 10-1000MHz. 32dB.GAIN | Mar. 27, 2010 | Mar. 26, 2011 | Radiation (03CH07-HY) |

# 5 Uncertainty of Evaluation

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

| Contribution | Uncertainty of $X_i$ | | $u(X_i)$ |
|---|---|---|---|
| | dB | Probability Distribution | |
| Receiver Reading | 0.10 | Normal (k=2) | 0.05 |
| Cable Loss | 0.10 | Normal (k=2) | 0.05 |
| AMN Insertion Loss | 2.50 | Rectangular | 0.63 |
| Receiver Specification | 1.50 | Rectangular | 0.43 |
| Site Imperfection | 1.39 | Rectangular | 0.80 |
| Mismatch | +0.34 / -0.35 | U-Shape | 0.24 |
| **Combined Standard Uncertainty Uc(y)** | **1.13** | | |
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **2.26** | | |

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

| Contribution | Uncertainty of $X_i$ | | $u(X_i)$ |
|---|---|---|---|
| | dB | Probability Distribution | |
| Receiver Reading | 0.41 | Normal (k=2) | 0.21 |
| Antenna Factor Calibration | 0.83 | Normal (k=2) | 0.42 |
| Cable Loss Calibration | 0.25 | Normal (k=2) | 0.13 |
| Pre-Amplifier Gain Calibration | 0.27 | Normal (k=2) | 0.14 |
| RCV/SPA Specification | 2.50 | Rectangular | 0.72 |
| Antenna Factor Interpolation for Frequency | 1.00 | Rectangular | 0.29 |
| Site Imperfection | 1.43 | Rectangular | 0.83 |
| Mismatch | +0.39 / -0.41 | U-Shape | 0.28 |
| **Combined Standard Uncertainty Uc(y)** | **1.27** | | |
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **2.54** | | |

**Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)**

| Contribution | Uncertainty of $X_i$ | | $u(X_i)$ | $C_i$ | $C_i * u(X_i)$ |
|---|---|---|---|---|---|
| | dB | Probability Distribution | | | |
| Receiver Reading | ±0.10 | Normal (k=2) | 0.10 | 1 | 0.10 |
| Antenna Factor Calibration | ±1.70 | Normal (k=2) | 0.85 | 1 | 0.85 |
| Cable Loss Calibration | ±0.50 | Normal (k=2) | 0.25 | 1 | 0.25 |
| Receiver Correction | ±2.00 | Rectangular | 1.15 | 1 | 1.15 |
| Antenna Factor Directional | ±1.50 | Rectangular | 0.87 | 1 | 0.87 |
| Site Imperfection | ±2.80 | Triangular | 1.14 | 1 | 1.14 |
| Mismatch<br>Receiver VSWR Γ1 = 0.197<br>Antenna VSWR Γ2 = 0.194<br>Uncertainty = 20Log(1-Γ1*Γ2) | +0.34 / -0.35 | U-Shape | 0.244 | 1 | 0.244 |
| **Combined Standard Uncertainty Uc(y)** | **2.36** | | | | |
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **4.72** | | | | |

# Appendix A. Photographs of EUT

Please refer to Sporton report number EP050315-01 as below.