# FCC TEST REPORT

# (CO-LOCATED)

| | |
|---|---|
| **REPORT NO.:** | RF130911C29-2 |
| **MODEL NO.:** | MR18-HW |
| **FCC ID:** | UDX-60026010 |
| **RECEIVED:** | Sep. 11, 2013 |
| **TESTED:** | Nov. 13 ~ Nov. 14, 2013 |
| **ISSUED:** | Nov. 19, 2013 |

| | |
|---|---|
| **APPLICANT:** | Cisco Systems, Inc. |
| **ADDRESS:** | 170 West Tasman Drive, San Jose, CA 95134 |

| | |
|---|---|
| **ISSUED BY:** | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch |
| **LAB ADDRESS:** | No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C. |
| **TEST LOCATION:** | No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C. |

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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# RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| RF130911C29-2 | Original release. | Nov. 19, 2013 |

# 1. CERTIFICATION

| | |
|---|---|
| **PRODUCT:** | Wireless 802.11 abgn AP |
| **MODEL NO.:** | MR18-HW |
| **BRAND:** | Cisco |
| **APPLICANT:** | Cisco Systems, Inc. |
| **TESTED:** | Nov. 13 ~ Nov. 14, 2013 |
| **TEST SAMPLE:** | ENGINEERING SAMPLE |
| **STANDARDS:** | **FCC Part 15, Subpart C (Section 15.247)** |
| | **FCC Part 15, Subpart E (Section 15.407)** |
| | ANSI C63.10-2009 |

The above equipment (model: MR18-HW) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** _____ **, DATE :** Nov. 19, 2013
Suntee Liu / Specialist

**APPROVED BY :** _____ **, DATE :** Nov. 19, 2013
Ken Liu / Senior Manager

# 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)<br>FCC PART 15, SUBPART E (SECTION 15.407) | | | |
|---|---|---|---|
| **STANDARD SECTION** | **TEST TYPE AND LIMIT** | **RESULT** | **REMARK** |
| 15.207<br>15.407(b)(6) | AC Power Conducted Emission | PASS | Meet the requirement of limit. Minimum passing margin is -2.09dB at 13.80078MHz. |
| 15.247(d)<br>15.209<br>15.407(b/1/2/3)(b)(6) | Radiated Emissions | PASS | Meet the requirement of limit. Minimum passing margin is -1.0dB at 15065.00MHz. |

## 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|---|---|---|
| Conducted emissions | 9kHz ~ 30MHz | 2.44 dB |
| Radiated emissions | 30MHz ~ 200MHz | 2.93 dB |
| | 200MHz ~1000MHz | 2.95 dB |
| | 1GHz ~ 18GHz | 2.26 dB |
| | 18GHz ~ 40GHz | 1.94 dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

# 3. GENERAL INFORMATION

## 3.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| **EUT** | Wireless 802.11 abgn AP |
| **MODEL NO.** | MR18-HW |
| **POWER SUPPLY** | 12Vdc (Adapter)<br>48Vdc (POE) |
| **MODULATION TYPE** | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM |
| **MODULATION TECHNOLOGY** | DSSS, OFDM |
| **TRANSFER RATE** | 802.11b:11/5.5/2/1Mbps<br>802.11a/g: 54/48/36/24/18/12/9/6Mbps<br>802.11n: up to 300Mbps |
| **OPERATING FREQUENCY** | **2.4GHz:** 2412 ~ 2462MHz<br>**5.0GHz:** 5180~5240MHz, 5745~5825MHz |
| **OUTPUT POWER** | **2412~2462MHz:** 830.280mW<br>**5180~5240MHz:** 49.659mW<br>**5745~5825MHz:** 780.109mW |
| **ANTENNA TYPE** | Refer to Note |
| **ANTENNA CONNECTOR** | Refer to Note |
| **DATA CABLE** | NA |
| **I/O PORTS** | Refer to user's manual |
| **ACCESSORY DEVICES** | NA |

**NOTE:**

1. The EUT incorporates a MIMO function. The EUT provides 2 completed transmitters and 2 receivers.

| Radio 1 | |
|---|---|
| **MODULATION MODE** | **TX FUNCTION** |
| **802.11b** | 2TX |
| **802.11g** | 2TX |
| **802.11n (20MHz) - MCS 8-15** | 2TX |
| **802.11n (40MHz) - MCS 8-15** | 2TX |

| Radio 2 | |
|---|---|
| **MODULATION MODE** | **TX FUNCTION** |
| **802.11a** | 2TX |
| **802.11n (20MHz) - MCS 8-15** | 2TX |
| **802.11n (40MHz) - MCS 8-15** | 2TX |

| Radio 3 | |
|---|---|
| **MODULATION MODE** | **TX FUNCTION** |
| **802.11b** | 1TX |
| **802.11g** | 1TX |
| **802.11a** | 1TX |
| **802.11n (20MHz) - MCS 0-7** | 1TX |
| **802.11n (40MHz) - MCS 0-7** | 1TX |

2. The EUT consumes power from the following adapter (support unit).

| | |
|---|---|
| **Brand** | Ruckus |
| **Model** | HK-AD-120A100-US |
| **Input Power** | 100-240Vac, 50/60Hz, 0.4A |
| **Output Power** | 12Vdc, 1.0A |
| **Power Line** | 1.8m cable without core attached on adapter |

3. The EUT consumes power from the following POE (support unit).

| | |
|---|---|
| **Brand** | SONICWALL |
| **Model** | PD-6083G300 |
| **Input Power** | 100-250Vac, 50/60Hz, 0.5A |
| **Output Power** | 48Vdc, 0.35A |

4. The EUT uses following antennas.

| Radio | Antenna Type | Connector | Gain (dBi) | | Remark |
|---|---|---|---|---|---|
| 1 | PIFA | IPEX | 4 | | 2.4GHz only |
| 2 | PIFA | IPEX | 5150~5250MHz | 4 | 5GHz only |
| | | | 5725~5825MHz | 6 | |
| 3 | Printed | IPEX | 2 | | 2.4GHz + 5GHz combo |

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

## 3.2 DESCRIPTION OF TEST MODES

### FOR 2.4GHz

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---|---|---|---|
| 1 | 2412MHz | 7 | 2442MHz |
| 2 | 2417MHz | 8 | 2447MHz |
| 3 | 2422MHz | 9 | 2452MHz |
| 4 | 2427MHz | 10 | 2457MHz |
| 5 | 2432MHz | 11 | 2462MHz |
| 6 | 2437MHz | | |

### FOR 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11n (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---|---|---|---|
| 36 | 5180 MHz | 44 | 5220 MHz |
| 40 | 5200 MHz | 48 | 5240 MHz |

2 channels are provided for 802.11n (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---|---|---|---|
| 38 | 5190 MHz | 46 | 5230 MHz |

### FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n (20MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---|---|---|---|
| 149 | 5745MHz | 161 | 5805MHz |
| 153 | 5765MHz | 165 | 5825MHz |
| 157 | 5785MHz | | |

2 channels are provided for 802.11n (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---|---|---|---|
| 151 | 5755MHz | 159 | 5795MHz |

## 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE MODE | APPLICABLE TO | | | DESCRIPTION |
|---|---|---|---|---|
| | RE≥1G | RE<1G | PLC | |
| A | √ | √ | √ | Power from adapter |
| B | - | √ | √ | Power from POE |

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
**PLC:** Power Line Conducted Emission

**NOTE 1:** "-"means no effect.
**NOTE 2:** The EUT had been pre-tested on the positioned of X-plane and Z-plane. The worst case was found when positioned on **Z-plane**.

**RADIATED EMISSION TEST (ABOVE 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | RADIO | MODE | FREQ. RANGE (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL |
|---|---|---|---|---|---|
| A1 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| A2 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11g | 2412~2462 | 1 to 11 | 6 |
| A3 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11n (20MHz) | 2412~2462 | 1 to 11 | 6 |
| A4 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11n (40MHz) | 2412~2462 | 3 to 9 | 6 |
| A5 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| A6 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11g | 2412~2462 | 1 to 11 | 6 |
| A7 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11n (20MHz) | 2412~2462 | 1 to 11 | 6 |
| A8 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11n (40MHz) | 2412~2462 | 3 to 9 | 6 |

| | | | | | |
|---|---|---|---|---|---|
| A9 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| A10 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11n (20MHz) | 5180~5240 | 36 to 48 | 36 |
| A11 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11n (40MHz) | 5190~5230 | 38 to 46 | 38 |
| A12 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| A13 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11n (20MHz) | 5745~5825 | 149 to 165 | 157 |
| A14 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11n (40MHz) | 5745~5825 | 151 to 159 | 159 |
| A15 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11a | 5745~5825 | 149 to 165 | 149 |
| A16 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11a | 5180~5240 | 36 to 48 | 40 |

## RADIATED EMISSION TEST (BELOW 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | RADIO | MODE | FREQ. RANGE (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL |
|---|---|---|---|---|---|
| A1, B1 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| A2, B2 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| A3, B3 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| A4, B4 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| A5, B5 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| A6, B6 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11a | 5745~5825 | 149 to 165 | 157 |

## CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | RADIO | MODE | FREQ. RANGE (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL |
|---|---|---|---|---|---|
| A1, B1 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| A2, B2 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| A3, B3 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| A4, B4 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| | 3 | 802.11a | 5745~5825 | 149 to 165 | 157 |
| A5, B5 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| A6, B6 | 1 | 802.11b | 2412~2462 | 1 to 11 | 6 |
| | 2 | 802.11a | 5180~5240 | 36 to 48 | 36 |
| | 3 | 802.11a | 5745~5825 | 149 to 165 | 157 |

## TEST CONDITION:

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|---|---|---|---|
| RE≥1G | 25deg. C, 65%RH | 120Vac, 60Hz | Ted Chang |
| RE<1G | 25deg. C, 65%RH | 120Vac, 60Hz | Chris Lin |
| PLC | 21deg. C, 68%RH | 120Vac, 60Hz | Brad Tung |

## 3.3 DESCRIPTION OF SUPPORT UNITS

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

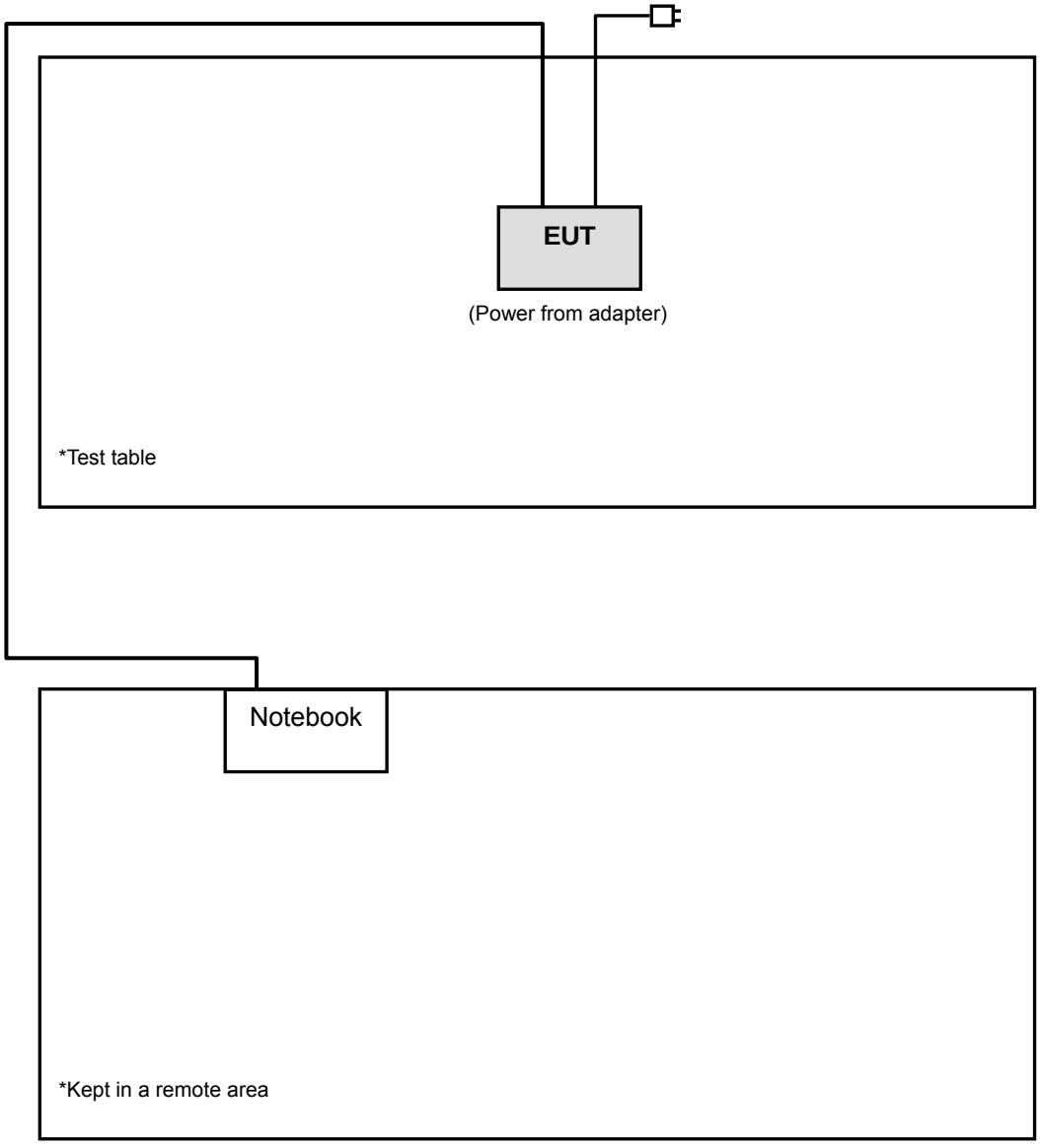
| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|---|---|---|---|---|---|
| 1 | Adapter | Ruckus | HK-AD-120A100-US | NA | NA |
| 2 | Notebook | DELL | E5420 | BPQ7MQ1 | FCC DoC Approved |
| 3 | POE | NA | AIR-PWRINJ1500-2 | NA | NA |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|---|---|
| 1 | NA |
| 2 | 10m RJ45 UTP cable |
| 3 | 10m RJ45 UTP cable |

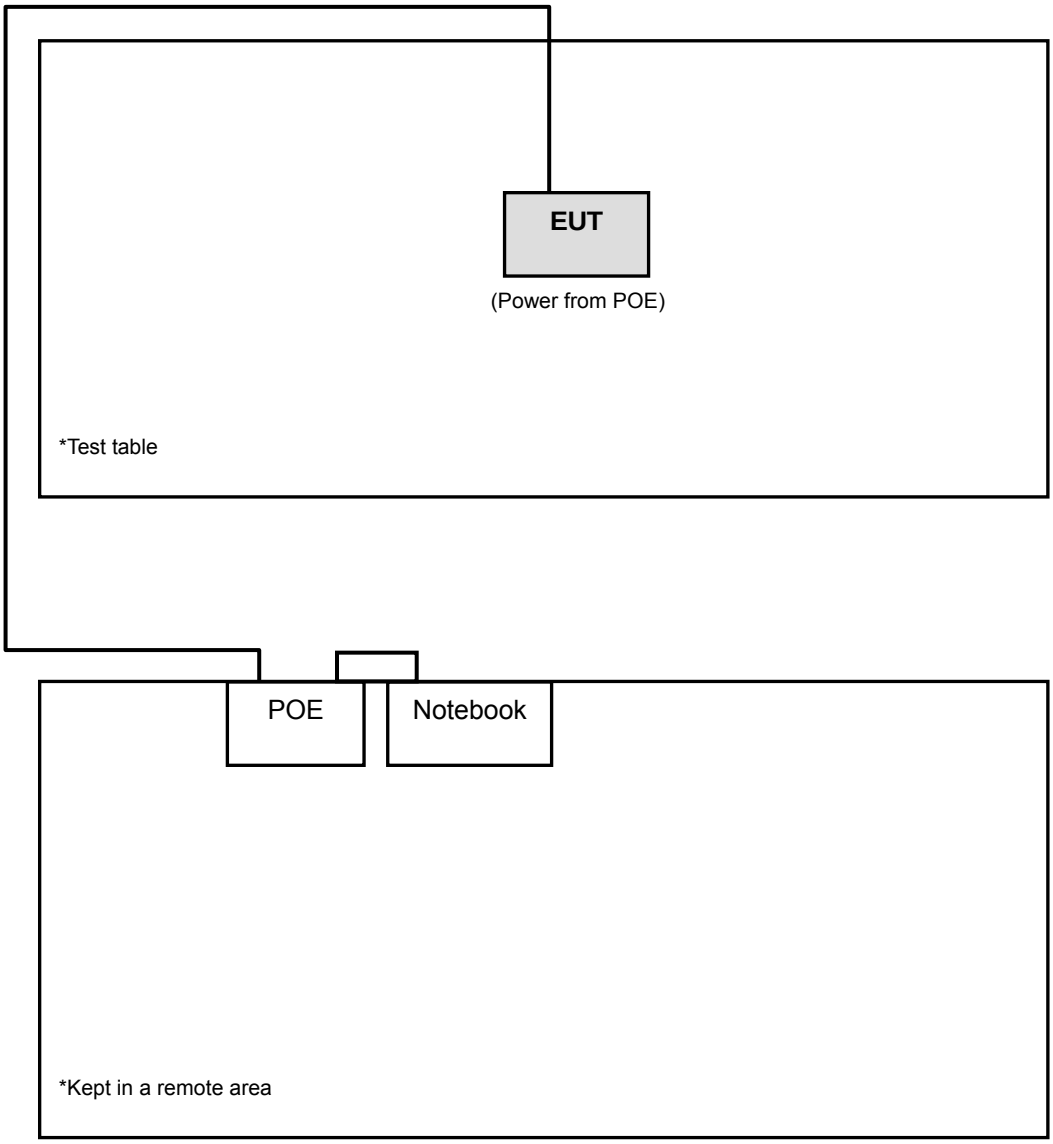
**NOTE:**
1. All power cords of the above support units are non-shielded (1.8m).
2. Items 2-3 acted as communication partners to transfer data.

### 3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

**Adapter mode**



## POE mode


EUT
(Power from POE)
*Test table
POE
Notebook
*Kept in a remote area

## 3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart C (Section 15.247)**
**FCC Part 15, Subpart E (Section 15.407)**
ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

# 4. TEST TYPES AND RESULTS

## 4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

### 4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| FREQUENCIES (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 |

**NOTE**:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

### 4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| APPLICABLE TO | LIMIT | |
|---|---|---|
| √ | FIELD STRENGTH AT 3m (dBµV/m) | |
| | PK | AV |
| | 74 | 54 |
| | EIRP LIMIT (dBm) | EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m) |
| | PK | PK |
| | -27 | 68.3 |

**NOTE:** The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ µV/m, where P is the eirp (Watts).

## 4.1.3 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| Test Receiver ROHDE & SCHWARZ | ESI7 | 838496/016 | Dec. 25, 2012 | Dec. 24, 2013 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100039 | Jan. 31, 2013 | Jan. 30, 2014 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-160 | Mar. 20, 2013 | Mar. 19, 2014 |
| HORN Antenna SCHWARZBECK | 9120D | 209 | Sep. 12, 2013 | Sep. 11, 2014 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | 148 | Jul. 15, 2013 | Jul. 14, 2014 |
| Loop Antenna | HFH2-Z2 | 100070 | Jan. 31, 2012 | Jan. 30, 2014 |
| Preamplifier Agilent | 8447D | 2944A10633 | Oct. 07, 2013 | Oct. 06, 2014 |
| Preamplifier Agilent | 8449B | 3008A01964 | Aug. 26, 2013 | Aug. 25, 2014 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 250723/4 | Aug. 23, 2013 | Aug. 22, 2014 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 106 | 12738/6+309224/4 | Aug. 23, 2013 | Aug. 22, 2014 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.4 | NA | NA | NA |
| Antenna Tower inn-co GmbH | MA 4000 | 013303 | NA | NA |
| Antenna Tower Controller inn-co GmbH | CO2000 | 017303 | NA | NA |
| Turn Table BV ADT | TT100 | TT93021703 | NA | NA |
| Turn Table Controller BV ADT | SC100 | SC93021703 | NA | NA |
| 26GHz ~ 40GHz Amplifier | EM26400 | 815221 | Oct. 18, 2013 | Oct. 17, 2014 |
| High Speed Peak Power Meter | ML2495A | 0824011 | Jul. 29, 2013 | Jul. 28, 2014 |
| Power Sensor | MA2411B | 0738171 | Jul. 29, 2013 | Jul. 28, 2014 |

**NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 3.
4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
5. The FCC Site Registration No. is 988962.
6. The IC Site Registration No. is IC 7450F-3.

### 4.1.4 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

**NOTE:**

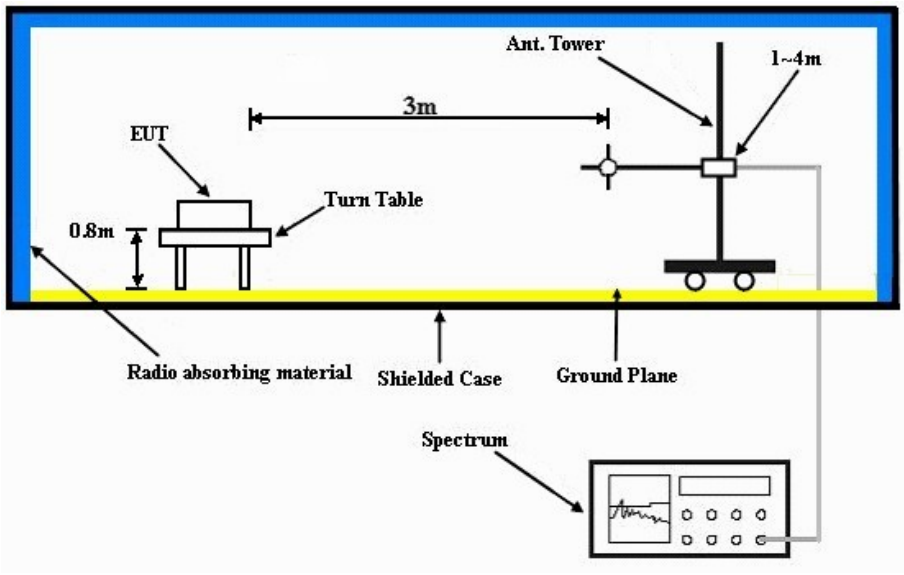
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 1kHz (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

### 4.1.5 DEVIATION FROM TEST STANDARD

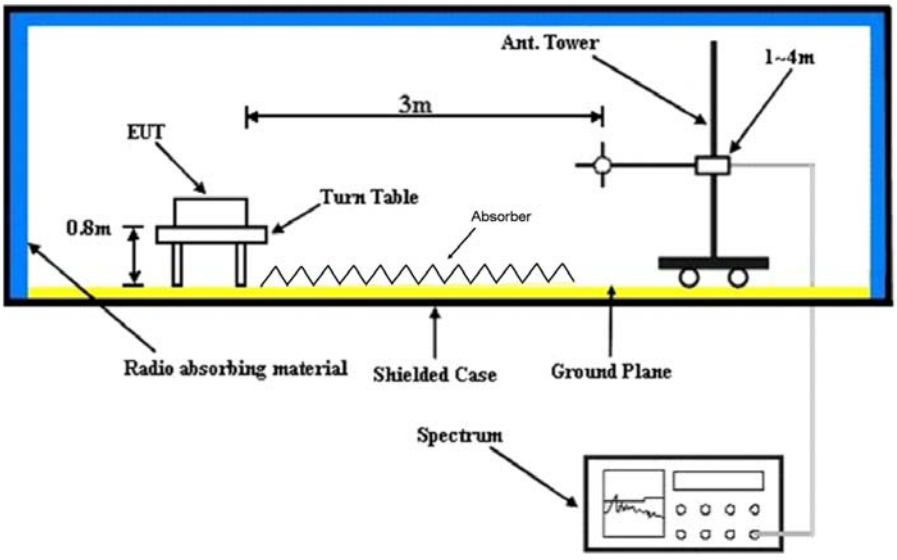
No deviation.

## 4.1.6 TEST SETUP

**Frequency range 30MHz~1GHz**




**Frequency range above 1GHz**




For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 4.1.7 EUT OPERATING CONDITIONS

a. Placed the EUT on the testing table.
b. Prepared a notebook to act as a communication partner and placed it outside of testing area.
c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
d. The communication partners sent data to EUT by command "PING".
e. The necessary accessories enabled the system in full functions.

## 4.1.8 TEST RESULTS

**Above 1GHz data**

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 117.6 PK | | | 1.00 H | 41 | 86.40 | 31.20 |
| 2 | *2437.00 | 114.3 AV | | | 1.00 H | 41 | 83.10 | 31.20 |
| 3 | 4874.00 | 51.7 PK | 74.0 | -22.3 | 1.02 H | 154 | 47.20 | 4.50 |
| 4 | 4874.00 | 46.0 AV | 54.0 | -8.0 | 1.02 H | 154 | 41.50 | 4.50 |
| 5 | 5150.00 | 60.4 PK | 74.0 | -13.6 | 1.10 H | 295 | 55.30 | 5.10 |
| 6 | 5150.00 | 46.3 AV | 54.0 | -7.7 | 1.10 H | 295 | 41.20 | 5.10 |
| 7 | *5180.00 | 112.9 PK | | | 1.10 H | 294 | 75.20 | 37.70 |
| 8 | *5180.00 | 102.9 AV | | | 1.10 H | 294 | 65.20 | 37.70 |
| 9 | #6906.00 | 58.3 PK | 74.0 | -15.7 | 1.05 H | 29 | 48.60 | 9.70 |
| 10 | #6906.00 | 50.8 AV | 54.0 | -3.2 | 1.05 H | 29 | 41.10 | 9.70 |
| 11 | #10360.00 | 60.5 PK | 74.0 | -13.5 | 1.52 H | 154 | 43.00 | 17.50 |
| 12 | #10360.00 | 48.0 AV | 54.0 | -6.0 | 1.52 H | 154 | 30.50 | 17.50 |
| 13 | #15065.00 | 70.9 PK | 74.0 | -3.1 | 1.02 H | 322 | 49.40 | 21.50 |
| **14** | **#15065.00** | **53.0 AV** | **54.0** | **-1.0** | **1.02 H** | **322** | **31.50** | **21.50** |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 114.4 PK | | | 1.10 V | 330 | 83.20 | 31.20 |
| 2 | *2437.00 | 110.5 AV | | | 1.10 V | 330 | 79.30 | 31.20 |
| 3 | 4874.00 | 53.7 PK | 74.0 | -20.3 | 1.02 V | 154 | 49.20 | 4.50 |
| 4 | 4874.00 | 49.1 AV | 54.0 | -4.9 | 1.02 V | 154 | 44.60 | 4.50 |
| 5 | 5150.00 | 61.7 PK | 74.0 | -12.3 | 1.05 V | 21 | 56.60 | 5.10 |
| 6 | 5150.00 | 47.2 AV | 54.0 | -6.8 | 1.05 V | 21 | 42.10 | 5.10 |
| 7 | *5180.00 | 111.1 PK | | | 1.03 V | 251 | 73.40 | 37.70 |
| 8 | *5180.00 | 101.3 AV | | | 1.03 V | 251 | 63.60 | 37.70 |
| 9 | #6906.00 | 57.7 PK | 74.0 | -16.3 | 1.06 V | 251 | 48.00 | 9.70 |
| 10 | #6906.00 | 52.3 AV | 54.0 | -1.7 | 1.06 V | 251 | 42.60 | 9.70 |
| 11 | #10360.00 | 60.2 PK | 74.0 | -13.8 | 1.21 V | 188 | 42.70 | 17.50 |
| 12 | #10360.00 | 47.1 AV | 54.0 | -6.9 | 1.21 V | 188 | 29.60 | 17.50 |
| 13 | #15065.00 | 69.5 PK | 74.0 | -4.5 | 1.00 V | 215 | 48.00 | 21.50 |
| **14** | **#15065.00** | **53.0 AV** | **54.0** | **-1.0** | **1.00 V** | **215** | **31.50** | **21.50** |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11g CH 6 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A2 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 59.3 PK | 74.0 | -14.7 | 1.00 H | 42 | 28.30 | 31.00 |
| 2 | 2390.00 | 45.6 AV | 54.0 | -8.4 | 1.00 H | 42 | 14.60 | 31.00 |
| 3 | *2437.00 | 117.5 PK | | | 1.00 H | 42 | 86.30 | 31.20 |
| 4 | *2437.00 | 114.3 AV | | | 1.00 H | 42 | 83.10 | 31.20 |
| 5 | 2483.50 | 68.5 PK | 74.0 | -5.5 | 1.00 H | 41 | 37.10 | 31.40 |
| 6 | 2483.50 | 47.6 AV | 54.0 | -6.4 | 1.00 H | 41 | 16.20 | 31.40 |
| 7 | 4874.00 | 51.1 PK | 74.0 | -22.9 | 1.02 H | 156 | 46.60 | 4.50 |
| 8 | 4874.00 | 38.0 AV | 54.0 | -16.0 | 1.02 H | 156 | 33.50 | 4.50 |
| 9 | 5150.00 | 60.3 PK | 74.0 | -13.7 | 1.10 H | 293 | 55.20 | 5.10 |
| 10 | 5150.00 | 46.2 AV | 54.0 | -7.8 | 1.10 H | 293 | 41.10 | 5.10 |
| 11 | *5180.00 | 110.0 PK | | | 1.10 H | 294 | 72.30 | 37.70 |
| 12 | *5180.00 | 102.9 AV | | | 1.10 H | 294 | 65.20 | 37.70 |
| 13 | #6906.00 | 58.3 PK | 74.0 | -15.7 | 1.05 H | 31 | 48.60 | 9.70 |
| 14 | #6906.00 | 50.9 AV | 54.0 | -3.1 | 1.05 H | 31 | 41.20 | 9.70 |
| 15 | #10360.00 | 61.1 PK | 74.0 | -12.9 | 1.51 H | 153 | 43.60 | 17.50 |
| 16 | #10360.00 | 48.1 AV | 54.0 | -5.9 | 1.51 H | 153 | 30.60 | 17.50 |
| 17 | #15065.00 | 70.8 PK | 74.0 | -3.2 | 1.02 H | 325 | 49.30 | 21.50 |
| 18 | #15065.00 | 52.9 AV | 54.0 | -1.1 | 1.02 H | 325 | 31.40 | 21.50 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 66.2 PK | 74.0 | -7.8 | 1.00 V | 345 | 35.20 | 31.00 |
| 2 | 2390.00 | 49.3 AV | 54.0 | -4.7 | 1.00 V | 345 | 18.30 | 31.00 |
| 3 | *2437.00 | 114.6 PK | | | 1.10 V | 331 | 83.40 | 31.20 |
| 4 | *2437.00 | 110.5 AV | | | 1.10 V | 331 | 79.30 | 31.20 |
| 5 | 2483.50 | 72.6 PK | 74.0 | -1.4 | 1.15 V | 15 | 41.20 | 31.40 |
| 6 | 2483.50 | 50.1 AV | 54.0 | -3.9 | 1.15 V | 15 | 18.70 | 31.40 |
| 7 | 4874.00 | 57.4 PK | 74.0 | -16.6 | 1.00 V | 345 | 52.90 | 4.50 |
| 8 | 4874.00 | 43.0 AV | 54.0 | -11.0 | 1.00 V | 345 | 38.50 | 4.50 |
| 9 | 5150.00 | 62.7 PK | 74.0 | -11.3 | 1.05 V | 26 | 57.60 | 5.10 |
| 10 | 5150.00 | 47.3 AV | 54.0 | -6.7 | 1.05 V | 26 | 42.20 | 5.10 |
| 11 | *5180.00 | 111.3 PK | | | 1.02 V | 252 | 73.60 | 37.70 |
| 12 | *5180.00 | 111.2 AV | | | 1.02 V | 252 | 73.50 | 37.70 |
| 13 | #6906.00 | 58.6 PK | 74.0 | -15.4 | 1.05 V | 253 | 48.90 | 9.70 |
| 14 | #6906.00 | 52.4 AV | 54.0 | -1.6 | 1.05 V | 253 | 42.70 | 9.70 |
| 15 | #10360.00 | 61.0 PK | 74.0 | -13.0 | 1.51 V | 200 | 43.50 | 17.50 |
| 16 | #10360.00 | 47.7 AV | 54.0 | -6.3 | 1.51 V | 200 | 30.20 | 17.50 |
| 17 | #15065.00 | 70.7 PK | 74.0 | -3.3 | 1.00 V | 218 | 49.20 | 21.50 |
| 18 | #15065.00 | 52.9 AV | 54.0 | -1.1 | 1.00 V | 218 | 31.40 | 21.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11n (20MHz) CH 6 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A3 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 59.1 PK | 74.0 | -14.9 | 1.02 H | 54 | 28.10 | 31.00 |
| 2 | 2390.00 | 45.2 AV | 54.0 | -8.8 | 1.02 H | 54 | 14.20 | 31.00 |
| 3 | *2437.00 | 117.8 PK | | | 1.00 H | 43 | 86.60 | 31.20 |
| 4 | *2437.00 | 114.4 AV | | | 1.00 H | 43 | 83.20 | 31.20 |
| 5 | 2483.50 | 68.5 PK | 74.0 | -5.5 | 1.33 H | 154 | 37.10 | 31.40 |
| 6 | 2483.50 | 46.9 AV | 54.0 | -7.1 | 1.33 H | 154 | 15.50 | 31.40 |
| 7 | 4874.00 | 49.2 PK | 74.0 | -24.8 | 1.02 H | 115 | 44.70 | 4.50 |
| 8 | 4874.00 | 36.6 AV | 54.0 | -17.4 | 1.02 H | 115 | 32.10 | 4.50 |
| 9 | 5150.00 | 61.3 PK | 74.0 | -12.7 | 1.10 H | 300 | 56.20 | 5.10 |
| 10 | 5150.00 | 47.2 AV | 54.0 | -6.8 | 1.10 H | 300 | 42.10 | 5.10 |
| 11 | *5180.00 | 113.0 PK | | | 1.10 H | 293 | 75.30 | 37.70 |
| 12 | *5180.00 | 103.0 AV | | | 1.10 H | 293 | 65.30 | 37.70 |
| 13 | #6906.00 | 59.2 PK | 74.0 | -14.8 | 1.06 H | 32 | 49.50 | 9.70 |
| 14 | #6906.00 | 51.8 AV | 54.0 | -2.2 | 1.06 H | 32 | 42.10 | 9.70 |
| 15 | #10360.00 | 62.1 PK | 74.0 | -11.9 | 1.51 H | 156 | 44.60 | 17.50 |
| 16 | #10360.00 | 48.0 AV | 54.0 | -6.0 | 1.51 H | 156 | 30.50 | 17.50 |
| 17 | #15065.00 | 71.6 PK | 74.0 | -2.4 | 1.03 H | 330 | 50.10 | 21.50 |
| 18 | #15065.00 | 52.7 AV | 54.0 | -1.3 | 1.03 H | 330 | 31.20 | 21.50 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 65.1 PK | 74.0 | -8.9 | 1.00 V | 156 | 34.10 | 31.00 |
| 2 | 2390.00 | 49.1 AV | 54.0 | -4.9 | 1.00 V | 156 | 18.10 | 31.00 |
| 3 | *2437.00 | 114.7 PK | | | 1.12 V | 331 | 83.50 | 31.20 |
| 4 | *2437.00 | 110.6 AV | | | 1.12 V | 331 | 79.40 | 31.20 |
| 5 | 2483.50 | 72.3 PK | 74.0 | -1.7 | 1.02 V | 141 | 40.90 | 31.40 |
| 6 | 2483.50 | 49.7 AV | 54.0 | -4.3 | 1.02 V | 141 | 18.30 | 31.40 |
| 7 | 4874.00 | 56.7 PK | 74.0 | -17.3 | 1.01 V | 155 | 52.20 | 4.50 |
| 8 | 4874.00 | 42.0 AV | 54.0 | -12.0 | 1.01 V | 155 | 37.50 | 4.50 |
| 9 | 5150.00 | 62.4 PK | 74.0 | -11.6 | 1.05 V | 25 | 57.30 | 5.10 |
| 10 | 5150.00 | 47.7 AV | 54.0 | -6.3 | 1.05 V | 25 | 42.60 | 5.10 |
| 11 | *5180.00 | 112.2 PK | | | 1.02 V | 255 | 74.50 | 37.70 |
| 12 | *5180.00 | 101.8 AV | | | 1.02 V | 255 | 64.10 | 37.70 |
| 13 | #6906.00 | 58.9 PK | 74.0 | -15.1 | 1.06 V | 255 | 49.20 | 9.70 |
| 14 | #6906.00 | 52.5 AV | 54.0 | -1.5 | 1.06 V | 255 | 42.80 | 9.70 |
| 15 | #10360.00 | 60.7 PK | 74.0 | -13.3 | 1.24 V | 198 | 43.20 | 17.50 |
| 16 | #10360.00 | 47.0 AV | 54.0 | -7.0 | 1.24 V | 198 | 29.50 | 17.50 |
| 17 | #15065.00 | 69.4 PK | 74.0 | -4.6 | 1.00 V | 205 | 47.90 | 21.50 |
| 18 | #15065.00 | 52.7 AV | 54.0 | -1.3 | 1.00 V | 205 | 31.20 | 21.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11n (40MHz) CH 6 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A4 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.6 PK | 74.0 | -15.4 | 1.00 H | 39 | 27.60 | 31.00 |
| 2 | 2390.00 | 46.1 AV | 54.0 | -7.9 | 1.00 H | 39 | 15.10 | 31.00 |
| 3 | *2437.00 | 117.7 PK | | | 1.00 H | 45 | 86.50 | 31.20 |
| 4 | *2437.00 | 114.2 AV | | | 1.00 H | 45 | 83.00 | 31.20 |
| 5 | 2483.50 | 65.3 PK | 74.0 | -8.7 | 1.00 H | 39 | 33.90 | 31.40 |
| 6 | 2483.50 | 49.5 AV | 54.0 | -4.5 | 1.00 H | 39 | 18.10 | 31.40 |
| 7 | 4874.00 | 49.8 PK | 74.0 | -24.2 | 1.02 H | 154 | 45.30 | 4.50 |
| 8 | 4874.00 | 37.0 AV | 54.0 | -17.0 | 1.02 H | 154 | 32.50 | 4.50 |
| 9 | 5150.00 | 61.0 PK | 74.0 | -13.0 | 1.10 H | 300 | 55.90 | 5.10 |
| 10 | 5150.00 | 47.2 AV | 54.0 | -6.8 | 1.10 H | 300 | 42.10 | 5.10 |
| 11 | *5180.00 | 113.9 PK | | | 1.10 H | 296 | 76.20 | 37.70 |
| 12 | *5180.00 | 103.0 AV | | | 1.10 H | 296 | 65.30 | 37.70 |
| 13 | #6906.00 | 57.9 PK | 74.0 | -16.1 | 1.06 H | 35 | 48.20 | 9.70 |
| 14 | #6906.00 | 51.6 AV | 54.0 | -2.4 | 1.06 H | 35 | 41.90 | 9.70 |
| 15 | #10360.00 | 60.4 PK | 74.0 | -13.6 | 1.55 H | 150 | 42.90 | 17.50 |
| 16 | #10360.00 | 47.7 AV | 54.0 | -6.3 | 1.55 H | 150 | 30.20 | 17.50 |
| 17 | #15065.00 | 71.1 PK | 74.0 | -2.9 | 1.02 H | 325 | 49.60 | 21.50 |
| 18 | #15065.00 | 52.7 AV | 54.0 | -1.3 | 1.02 H | 325 | 31.20 | 21.50 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 68.2 PK | 74.0 | -5.8 | 1.00 V | 355 | 37.20 | 31.00 |
| 2 | 2390.00 | 50.8 AV | 54.0 | -3.2 | 1.00 V | 355 | 19.80 | 31.00 |
| 3 | *2437.00 | 114.8 PK | | | 1.10 V | 331 | 83.60 | 31.20 |
| 4 | *2437.00 | 110.6 AV | | | 1.10 V | 331 | 79.40 | 31.20 |
| 5 | 2483.50 | 71.0 PK | 74.0 | -3.0 | 1.19 V | 5 | 39.60 | 31.40 |
| 6 | 2483.50 | 52.4 AV | 54.0 | -1.6 | 1.19 V | 5 | 21.00 | 31.40 |
| 7 | 4874.00 | 50.7 PK | 74.0 | -23.3 | 1.51 V | 102 | 46.20 | 4.50 |
| 8 | 4874.00 | 39.6 AV | 54.0 | -14.4 | 1.51 V | 102 | 35.10 | 4.50 |
| 9 | 5150.00 | 51.6 PK | 74.0 | -22.4 | 1.05 V | 25 | 46.50 | 5.10 |
| 10 | 5150.00 | 47.4 AV | 54.0 | -6.6 | 1.05 V | 25 | 42.30 | 5.10 |
| 11 | *5180.00 | 111.3 PK | | | 1.03 V | 255 | 73.60 | 37.70 |
| 12 | *5180.00 | 101.6 AV | | | 1.03 V | 255 | 63.90 | 37.70 |
| 13 | #6906.00 | 58.4 PK | 74.0 | -15.6 | 1.06 V | 248 | 48.70 | 9.70 |
| 14 | #6906.00 | 52.2 AV | 54.0 | -1.8 | 1.06 V | 248 | 42.50 | 9.70 |
| 15 | #10360.00 | 59.2 PK | 74.0 | -14.8 | 1.08 V | 189 | 41.70 | 17.50 |
| 16 | #10360.00 | 46.8 AV | 54.0 | -7.2 | 1.08 V | 189 | 29.30 | 17.50 |
| 17 | #15065.00 | 70.0 PK | 74.0 | -4.0 | 1.00 V | 220 | 48.50 | 21.50 |
| 18 | #15065.00 | 52.9 AV | 54.0 | -1.1 | 1.00 V | 220 | 31.40 | 21.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11b CH 6 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A5 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 117.7 PK | | | 1.00 H | 43 | 86.50 | 31.20 |
| 2 | *2437.00 | 114.4 AV | | | 1.00 H | 43 | 83.20 | 31.20 |
| 3 | 4874.00 | 52.0 PK | 74.0 | -22.0 | 1.11 H | 14 | 47.50 | 4.50 |
| 4 | 4874.00 | 46.4 AV | 54.0 | -7.6 | 1.11 H | 14 | 41.90 | 4.50 |
| 5 | *5785.00 | 116.2 PK | | | 1.10 H | 285 | 77.60 | 38.60 |
| 6 | *5785.00 | 106.4 AV | | | 1.10 H | 285 | 67.80 | 38.60 |
| 7 | 11570.00 | 65.9 PK | 74.0 | -8.1 | 1.15 H | 294 | 46.90 | 19.00 |
| 8 | 11570.00 | 52.7 AV | 54.0 | -1.3 | 1.15 H | 294 | 33.70 | 19.00 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 114.5 PK | | | 1.12 V | 332 | 83.30 | 31.20 |
| 2 | *2437.00 | 110.6 AV | | | 1.12 V | 332 | 79.40 | 31.20 |
| 3 | 4874.00 | 54.7 PK | 74.0 | -19.3 | 1.28 V | 340 | 50.20 | 4.50 |
| 4 | 4874.00 | 49.7 AV | 54.0 | -4.3 | 1.28 V | 340 | 45.20 | 4.50 |
| 5 | *5785.00 | 112.5 PK | | | 1.00 V | 335 | 73.90 | 38.60 |
| 6 | *5785.00 | 102.9 AV | | | 1.00 V | 335 | 64.30 | 38.60 |
| 7 | 11570.00 | 64.2 PK | 74.0 | -9.8 | 1.10 V | 337 | 45.20 | 19.00 |
| 8 | 11570.00 | 52.6 AV | 54.0 | -1.4 | 1.10 V | 337 | 33.60 | 19.00 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11g CH 6 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A6 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 59.1 PK | 74.0 | -14.9 | 1.00 H | 42 | 28.10 | 31.00 |
| 2 | 2390.00 | 46.0 AV | 54.0 | -8.0 | 1.00 H | 42 | 15.00 | 31.00 |
| 3 | *2437.00 | 117.8 PK | | | 1.00 H | 42 | 86.60 | 31.20 |
| 4 | *2437.00 | 114.7 AV | | | 1.00 H | 42 | 83.50 | 31.20 |
| 5 | 2483.50 | 69.0 PK | 74.0 | -5.0 | 1.00 H | 45 | 37.60 | 31.40 |
| 6 | 2483.50 | 47.9 AV | 54.0 | -6.1 | 1.00 H | 45 | 16.50 | 31.40 |
| 7 | 4874.00 | 51.1 PK | 74.0 | -22.9 | 1.00 H | 155 | 46.60 | 4.50 |
| 8 | 4874.00 | 38.0 AV | 54.0 | -16.0 | 1.00 H | 155 | 33.50 | 4.50 |
| 9 | *5785.00 | 116.4 PK | | | 1.08 H | 284 | 77.80 | 38.60 |
| 10 | *5785.00 | 106.6 AV | | | 1.08 H | 284 | 68.00 | 38.60 |
| 11 | 11570.00 | 65.5 PK | 74.0 | -8.5 | 1.13 H | 296 | 46.50 | 19.00 |
| 12 | 11570.00 | 52.3 AV | 54.0 | -1.7 | 1.13 H | 296 | 33.30 | 19.00 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 65.8 PK | 74.0 | -8.2 | 1.00 V | 351 | 34.80 | 31.00 |
| 2 | 2390.00 | 50.1 AV | 54.0 | -3.9 | 1.00 V | 351 | 19.10 | 31.00 |
| 3 | *2437.00 | 114.7 PK | | | 1.10 V | 335 | 83.50 | 31.20 |
| 4 | *2437.00 | 110.5 AV | | | 1.10 V | 335 | 79.30 | 31.20 |
| 5 | 2483.50 | 72.7 PK | 74.0 | -1.3 | 1.18 V | 15 | 41.30 | 31.40 |
| 6 | 2483.50 | 50.4 AV | 54.0 | -3.6 | 1.18 V | 15 | 19.00 | 31.40 |
| 7 | 4874.00 | 56.7 PK | 74.0 | -17.3 | 1.05 V | 154 | 52.20 | 4.50 |
| 8 | 4874.00 | 41.0 AV | 54.0 | -13.0 | 1.05 V | 154 | 36.50 | 4.50 |
| 9 | *5785.00 | 112.8 PK | | | 1.00 V | 330 | 74.20 | 38.60 |
| 10 | *5785.00 | 102.6 AV | | | 1.00 V | 330 | 64.00 | 38.60 |
| 11 | 11570.00 | 64.6 PK | 74.0 | -9.4 | 1.10 V | 332 | 45.60 | 19.00 |
| 12 | 11570.00 | 52.4 AV | 54.0 | -1.6 | 1.10 V | 332 | 33.40 | 19.00 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11n (20MHz) CH 6 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A7 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.5 PK | 74.0 | -15.5 | 1.05 H | 55 | 27.50 | 31.00 |
| 2 | 2390.00 | 45.2 AV | 54.0 | -8.8 | 1.05 H | 55 | 14.20 | 31.00 |
| 3 | *2437.00 | 117.8 PK | | | 1.00 H | 45 | 86.60 | 31.20 |
| 4 | *2437.00 | 114.6 AV | | | 1.00 H | 45 | 83.40 | 31.20 |
| 5 | 2483.50 | 67.9 PK | 74.0 | -6.1 | 1.33 H | 155 | 36.50 | 31.40 |
| 6 | 2483.50 | 46.8 AV | 54.0 | -7.2 | 1.33 H | 155 | 15.40 | 31.40 |
| 7 | 4874.00 | 49.8 PK | 74.0 | -24.2 | 1.21 H | 150 | 45.30 | 4.50 |
| 8 | 4874.00 | 38.0 AV | 54.0 | -16.0 | 1.21 H | 150 | 33.50 | 4.50 |
| 9 | *5785.00 | 116.3 PK | | | 1.10 H | 286 | 77.70 | 38.60 |
| 10 | *5785.00 | 106.5 AV | | | 1.10 H | 286 | 67.90 | 38.60 |
| 11 | 11570.00 | 66.2 PK | 74.0 | -7.8 | 1.05 H | 296 | 47.20 | 19.00 |
| 12 | 11570.00 | 52.5 AV | 54.0 | -1.5 | 1.05 H | 296 | 33.50 | 19.00 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 64.4 PK | 74.0 | -9.6 | 1.03 V | 155 | 33.40 | 31.00 |
| 2 | 2390.00 | 49.1 AV | 54.0 | -4.9 | 1.03 V | 155 | 18.10 | 31.00 |
| 3 | *2437.00 | 114.7 PK | | | 1.12 V | 335 | 83.50 | 31.20 |
| 4 | *2437.00 | 110.7 AV | | | 1.12 V | 335 | 79.50 | 31.20 |
| 5 | 2483.50 | 72.2 PK | 74.0 | -1.8 | 1.02 V | 115 | 40.80 | 31.40 |
| 6 | 2483.50 | 50.0 AV | 54.0 | -4.0 | 1.02 V | 115 | 18.60 | 31.40 |
| 7 | 4874.00 | 55.2 PK | 74.0 | -18.8 | 1.02 V | 155 | 50.70 | 4.50 |
| 8 | 4874.00 | 41.0 AV | 54.0 | -13.0 | 1.02 V | 155 | 36.50 | 4.50 |
| 9 | *5785.00 | 112.7 PK | | | 1.00 V | 336 | 74.10 | 38.60 |
| 10 | *5785.00 | 103.1 AV | | | 1.00 V | 336 | 64.50 | 38.60 |
| 11 | 11570.00 | 65.1 PK | 74.0 | -8.9 | 1.10 V | 339 | 46.10 | 19.00 |
| 12 | 11570.00 | 52.2 AV | 54.0 | -1.8 | 1.10 V | 339 | 33.20 | 19.00 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11n (40MHz) CH 6 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A8 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.5 PK | 74.0 | -15.5 | 1.00 H | 41 | 27.50 | 31.00 |
| 2 | 2390.00 | 45.7 AV | 54.0 | -8.3 | 1.00 H | 41 | 14.70 | 31.00 |
| 3 | *2437.00 | 117.6 PK | | | 1.00 H | 45 | 86.40 | 31.20 |
| 4 | *2437.00 | 114.7 AV | | | 1.00 H | 45 | 83.50 | 31.20 |
| 5 | 2483.50 | 65.0 PK | 74.0 | -9.0 | 1.00 H | 29 | 33.60 | 31.40 |
| 6 | 2483.50 | 48.9 AV | 54.0 | -5.1 | 1.00 H | 29 | 17.50 | 31.40 |
| 7 | 4874.00 | 50.8 PK | 74.0 | -23.2 | 1.01 H | 120 | 46.30 | 4.50 |
| 8 | 4874.00 | 38.0 AV | 54.0 | -16.0 | 1.01 H | 120 | 33.50 | 4.50 |
| 9 | *5785.00 | 116.4 PK | | | 1.15 H | 288 | 77.80 | 38.60 |
| 10 | *5785.00 | 106.7 AV | | | 1.15 H | 288 | 68.10 | 38.60 |
| 11 | 11570.00 | 66.2 PK | 74.0 | -7.8 | 1.16 H | 299 | 47.20 | 19.00 |
| 12 | 11570.00 | 52.3 AV | 54.0 | -1.7 | 1.16 H | 299 | 33.30 | 19.00 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 59.0 PK | 74.0 | -15.0 | 1.00 V | 45 | 28.00 | 31.00 |
| 2 | 2390.00 | 46.2 AV | 54.0 | -7.8 | 1.00 V | 45 | 15.20 | 31.00 |
| 3 | *2437.00 | 114.7 PK | | | 1.15 V | 336 | 83.50 | 31.20 |
| 4 | *2437.00 | 110.7 AV | | | 1.15 V | 336 | 79.50 | 31.20 |
| 5 | 2483.50 | 65.0 PK | 74.0 | -9.0 | 1.00 V | 33 | 33.60 | 31.40 |
| 6 | 2483.50 | 49.6 AV | 54.0 | -4.4 | 1.00 V | 33 | 18.20 | 31.40 |
| 7 | 4874.00 | 49.2 PK | 74.0 | -24.8 | 1.00 V | 210 | 44.70 | 4.50 |
| 8 | 4874.00 | 36.0 AV | 54.0 | -18.0 | 1.00 V | 210 | 31.50 | 4.50 |
| 9 | *5785.00 | 112.8 PK | | | 1.00 V | 338 | 74.20 | 38.60 |
| 10 | *5785.00 | 103.2 AV | | | 1.00 V | 338 | 64.60 | 38.60 |
| 11 | 11570.00 | 65.1 PK | 74.0 | -8.9 | 1.16 V | 335 | 46.10 | 19.00 |
| 12 | 11570.00 | 52.8 AV | 54.0 | -1.2 | 1.16 V | 335 | 33.80 | 19.00 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 36 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A9 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 116.3 PK | | | 1.00 H | 36 | 85.10 | 31.20 |
| 2 | *2437.00 | 113.4 AV | | | 1.00 H | 36 | 82.20 | 31.20 |
| 3 | 4874.00 | 47.0 PK | 74.0 | -27.0 | 1.25 H | 336 | 42.50 | 4.50 |
| 4 | 4874.00 | 37.7 AV | 54.0 | -16.3 | 1.25 H | 336 | 33.20 | 4.50 |
| 5 | 5150.00 | 60.7 PK | 74.0 | -13.3 | 1.12 H | 296 | 55.60 | 5.10 |
| 6 | 5150.00 | 46.6 AV | 54.0 | -7.4 | 1.12 H | 296 | 41.50 | 5.10 |
| 7 | *5180.00 | 112.5 PK | | | 1.15 H | 301 | 74.80 | 37.70 |
| 8 | *5180.00 | 102.5 AV | | | 1.15 H | 301 | 64.80 | 37.70 |
| 9 | #6906.00 | 56.8 PK | 74.0 | -17.2 | 1.30 H | 289 | 47.10 | 9.70 |
| 10 | #6906.00 | 49.9 AV | 54.0 | -4.1 | 1.30 H | 289 | 40.20 | 9.70 |
| 11 | #10360.00 | 60.7 PK | 74.0 | -13.3 | 1.09 H | 15 | 43.20 | 17.50 |
| 12 | #10360.00 | 48.5 AV | 54.0 | -5.5 | 1.09 H | 15 | 31.00 | 17.50 |
| 13 | #15065.00 | 70.8 PK | 74.0 | -3.2 | 1.25 H | 349 | 49.30 | 21.50 |
| **14** | **#15065.00** | **53.0 AV** | **54.0** | **-1.0** | **1.25 H** | **349** | **31.50** | **21.50** |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 115.1 PK | | | 1.15 V | 334 | 83.90 | 31.20 |
| 2 | *2437.00 | 111.2 AV | | | 1.15 V | 334 | 80.00 | 31.20 |
| 3 | 4874.00 | 48.0 PK | 74.0 | -26.0 | 1.06 V | 5 | 43.50 | 4.50 |
| 4 | 4874.00 | 33.4 AV | 54.0 | -20.6 | 1.06 V | 5 | 28.90 | 4.50 |
| 5 | 5150.00 | 66.3 PK | 74.0 | -7.7 | 1.05 V | 315 | 61.20 | 5.10 |
| 6 | 5150.00 | 48.6 AV | 54.0 | -5.4 | 1.05 V | 315 | 43.50 | 5.10 |
| 7 | *5180.00 | 110.6 PK | | | 1.05 V | 6 | 72.90 | 37.70 |
| 8 | *5180.00 | 101.2 AV | | | 1.05 V | 6 | 63.50 | 37.70 |
| 9 | #6906.00 | 57.3 PK | 74.0 | -16.7 | 1.09 V | 26 | 47.60 | 9.70 |
| 10 | #6906.00 | 52.3 AV | 54.0 | -1.7 | 1.09 V | 26 | 42.60 | 9.70 |
| 11 | #10360.00 | 61.2 PK | 74.0 | -12.8 | 1.00 V | 35 | 43.70 | 17.50 |
| 12 | #10360.00 | 48.0 AV | 54.0 | -6.0 | 1.00 V | 35 | 30.50 | 17.50 |
| 13 | #15065.00 | 68.6 PK | 74.0 | -5.4 | 1.00 V | 332 | 47.10 | 21.50 |
| 14 | #15065.00 | 52.8 AV | 54.0 | -1.2 | 1.00 V | 332 | 31.30 | 21.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11n (20MHz) CH 36 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A10 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 117.1 PK | | | 1.00 H | 45 | 85.90 | 31.20 |
| 2 | *2437.00 | 113.8 AV | | | 1.00 H | 45 | 82.60 | 31.20 |
| 3 | 4874.00 | 48.4 PK | 74.0 | -25.6 | 1.02 H | 154 | 43.90 | 4.50 |
| 4 | 4874.00 | 36.0 AV | 54.0 | -18.0 | 1.02 H | 154 | 31.50 | 4.50 |
| 5 | 5150.00 | 61.9 PK | 74.0 | -12.1 | 1.15 H | 300 | 56.80 | 5.10 |
| 6 | 5150.00 | 46.6 AV | 54.0 | -7.4 | 1.15 H | 300 | 41.50 | 5.10 |
| 7 | *5180.00 | 112.9 PK | | | 1.15 H | 305 | 75.20 | 37.70 |
| 8 | *5180.00 | 102.9 AV | | | 1.15 H | 305 | 65.20 | 37.70 |
| 9 | #6906.00 | 57.9 PK | 74.0 | -16.1 | 1.33 H | 289 | 48.20 | 9.70 |
| 10 | #6906.00 | 50.5 AV | 54.0 | -3.5 | 1.33 H | 289 | 40.80 | 9.70 |
| 11 | #10360.00 | 61.0 PK | 74.0 | -13.0 | 1.09 H | 24 | 43.50 | 17.50 |
| 12 | #10360.00 | 48.5 AV | 54.0 | -5.5 | 1.09 H | 24 | 31.00 | 17.50 |
| 13 | #15065.00 | 71.3 PK | 74.0 | -2.7 | 1.21 H | 344 | 49.80 | 21.50 |
| 14 | #15065.00 | 52.6 AV | 54.0 | -1.4 | 1.21 H | 344 | 31.10 | 21.50 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 113.8 PK | | | 1.08 V | 330 | 82.60 | 31.20 |
| 2 | *2437.00 | 110.2 AV | | | 1.08 V | 330 | 79.00 | 31.20 |
| 3 | 4874.00 | 45.8 PK | 74.0 | -28.2 | 1.05 V | 151 | 41.30 | 4.50 |
| 4 | 4874.00 | 34.4 AV | 54.0 | -19.6 | 1.05 V | 151 | 29.90 | 4.50 |
| 5 | 5150.00 | 67.0 PK | 74.0 | -7.0 | 1.06 V | 311 | 61.90 | 5.10 |
| 6 | 5150.00 | 48.7 AV | 54.0 | -5.3 | 1.06 V | 311 | 43.60 | 5.10 |
| 7 | *5180.00 | 110.7 PK | | | 1.06 V | 20 | 73.00 | 37.70 |
| 8 | *5180.00 | 100.8 AV | | | 1.06 V | 20 | 63.10 | 37.70 |
| 9 | #6906.00 | 57.9 PK | 74.0 | -16.1 | 1.00 V | 25 | 48.20 | 9.70 |
| 10 | #6906.00 | 52.2 AV | 54.0 | -1.8 | 1.00 V | 25 | 42.50 | 9.70 |
| 11 | #10360.00 | 60.7 PK | 74.0 | -13.3 | 1.00 V | 232 | 43.20 | 17.50 |
| 12 | #10360.00 | 47.7 AV | 54.0 | -6.3 | 1.00 V | 232 | 30.20 | 17.50 |
| 13 | #15065.00 | 69.3 PK | 74.0 | -4.7 | 1.00 V | 330 | 47.80 | 21.50 |
| 14 | #15065.00 | 52.7 AV | 54.0 | -1.3 | 1.00 V | 330 | 31.20 | 21.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11n (40MHz) CH 38 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A11 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 116.5 PK | | | 1.05 H | 42 | 85.30 | 31.20 |
| 2 | *2437.00 | 113.3 AV | | | 1.05 H | 42 | 82.10 | 31.20 |
| 3 | 4874.00 | 46.8 PK | 74.0 | -27.2 | 1.02 H | 336 | 42.30 | 4.50 |
| 4 | 4874.00 | 35.7 AV | 54.0 | -18.3 | 1.02 H | 336 | 31.20 | 4.50 |
| 5 | 5150.00 | 62.6 PK | 74.0 | -11.4 | 1.03 H | 52 | 57.50 | 5.10 |
| 6 | 5150.00 | 48.2 AV | 54.0 | -5.8 | 1.03 H | 52 | 43.10 | 5.10 |
| 7 | *5180.00 | 112.9 PK | | | 1.03 H | 301 | 75.20 | 37.70 |
| 8 | *5180.00 | 103.0 AV | | | 1.03 H | 301 | 65.30 | 37.70 |
| 9 | *5190.00 | 86.3 PK | | | 1.01 H | 42 | 48.50 | 37.80 |
| 10 | *5190.00 | 75.4 AV | | | 1.01 H | 42 | 37.60 | 37.80 |
| 11 | #6906.00 | 57.7 PK | 74.0 | -16.3 | 1.10 H | 26 | 48.00 | 9.70 |
| 12 | #6906.00 | 52.9 AV | 54.0 | -1.1 | 1.10 H | 26 | 43.20 | 9.70 |
| 13 | #10360.00 | 61.0 PK | 74.0 | -13.0 | 1.06 H | 15 | 43.50 | 17.50 |
| 14 | #10360.00 | 48.6 AV | 54.0 | -5.4 | 1.06 H | 15 | 31.10 | 17.50 |
| 15 | #10380.00 | 63.2 PK | 74.0 | -10.8 | 1.12 H | 99 | 45.60 | 17.60 |
| 16 | #10380.00 | 48.0 AV | 54.0 | -6.0 | 1.12 H | 99 | 30.40 | 17.60 |
| 17 | #15065.00 | 69.7 PK | 74.0 | -4.3 | 1.02 H | 330 | 48.20 | 21.50 |
| 18 | #15065.00 | 52.8 AV | 54.0 | -1.2 | 1.02 H | 330 | 31.30 | 21.50 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 114.7 PK | | | 1.10 V | 341 | 83.50 | 31.20 |
| 2 | *2437.00 | 110.4 AV | | | 1.10 V | 341 | 79.20 | 31.20 |
| 3 | 4874.00 | 47.0 PK | 74.0 | -27.0 | 1.05 V | 6 | 42.50 | 4.50 |
| 4 | 4874.00 | 34.6 AV | 54.0 | -19.4 | 1.05 V | 6 | 30.10 | 4.50 |
| 5 | 5150.00 | 68.3 PK | 74.0 | -5.7 | 1.05 V | 315 | 63.20 | 5.10 |
| 6 | 5150.00 | 50.4 AV | 54.0 | -3.6 | 1.05 V | 315 | 45.30 | 5.10 |
| 7 | *5180.00 | 110.9 PK | | | 1.03 V | 10 | 73.20 | 37.70 |
| 8 | *5180.00 | 101.0 AV | | | 1.03 V | 10 | 63.30 | 37.70 |
| 9 | *5190.00 | 99.9 PK | | | 1.00 V | 305 | 62.10 | 37.80 |
| 10 | *5190.00 | 89.7 AV | | | 1.00 V | 305 | 51.90 | 37.80 |
| 11 | #6906.00 | 57.4 PK | 74.0 | -16.6 | 1.03 V | 25 | 47.70 | 9.70 |
| 12 | #6906.00 | 52.0 AV | 54.0 | -2.0 | 1.03 V | 25 | 42.30 | 9.70 |
| 13 | #10360.00 | 60.7 PK | 74.0 | -13.3 | 1.00 V | 229 | 43.20 | 17.50 |
| 14 | #10360.00 | 47.7 AV | 54.0 | -6.3 | 1.00 V | 229 | 30.20 | 17.50 |
| 15 | #10380.00 | 63.8 PK | 74.0 | -10.2 | 1.14 V | 132 | 46.20 | 17.60 |
| 16 | #10380.00 | 48.4 AV | 54.0 | -5.6 | 1.14 V | 132 | 30.80 | 17.60 |
| 17 | #15065.00 | 69.4 PK | 74.0 | -4.6 | 1.00 V | 331 | 47.90 | 21.50 |
| 18 | #15065.00 | 52.9 AV | 54.0 | -1.1 | 1.00 V | 331 | 31.40 | 21.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 157 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A12 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 117.4 PK | | | 1.00 H | 45 | 86.20 | 31.20 |
| 2 | *2437.00 | 113.9 AV | | | 1.00 H | 45 | 82.70 | 31.20 |
| 3 | 4874.00 | 47.1 PK | 74.0 | -26.9 | 1.02 H | 151 | 42.60 | 4.50 |
| 4 | 4874.00 | 35.8 AV | 54.0 | -18.2 | 1.02 H | 151 | 31.30 | 4.50 |
| 5 | *5785.00 | 116.8 PK | | | 1.10 H | 291 | 78.20 | 38.60 |
| 6 | *5785.00 | 107.1 AV | | | 1.10 H | 291 | 68.50 | 38.60 |
| 7 | 11570.00 | 66.2 PK | 74.0 | -7.8 | 1.21 H | 299 | 47.20 | 19.00 |
| 8 | 11570.00 | 52.9 AV | 54.0 | -1.1 | 1.21 H | 299 | 33.90 | 19.00 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 114.8 PK | | | 1.10 V | 345 | 83.60 | 31.20 |
| 2 | *2437.00 | 110.8 AV | | | 1.10 V | 345 | 79.60 | 31.20 |
| 3 | 4874.00 | 47.2 PK | 74.0 | -26.8 | 1.02 V | 215 | 42.70 | 4.50 |
| 4 | 4874.00 | 35.0 AV | 54.0 | -19.0 | 1.02 V | 215 | 30.50 | 4.50 |
| 5 | *5785.00 | 116.2 PK | | | 1.09 V | 298 | 77.60 | 38.60 |
| 6 | *5785.00 | 106.5 AV | | | 1.09 V | 298 | 67.90 | 38.60 |
| 7 | 11570.00 | 66.2 PK | 74.0 | -7.8 | 1.21 V | 298 | 47.20 | 19.00 |
| 8 | 11570.00 | 52.6 AV | 54.0 | -1.4 | 1.21 V | 298 | 33.60 | 19.00 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11n (20MHz) CH 157 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A13 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 117.5 PK | | | 1.00 H | 45 | 86.30 | 31.20 |
| 2 | *2437.00 | 114.1 AV | | | 1.00 H | 45 | 82.90 | 31.20 |
| 3 | 4874.00 | 47.4 PK | 74.0 | -26.6 | 1.22 H | 335 | 42.90 | 4.50 |
| 4 | 4874.00 | 35.7 AV | 54.0 | -18.3 | 1.22 H | 335 | 31.20 | 4.50 |
| 5 | *5785.00 | 116.5 PK | | | 1.08 H | 285 | 77.90 | 38.60 |
| 6 | *5785.00 | 106.5 AV | | | 1.08 H | 285 | 67.90 | 38.60 |
| 7 | 11570.00 | 65.3 PK | 74.0 | -8.7 | 1.21 H | 286 | 46.30 | 19.00 |
| 8 | 11570.00 | 52.5 AV | 54.0 | -1.5 | 1.21 H | 286 | 33.50 | 19.00 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 114.9 PK | | | 1.12 V | 346 | 83.70 | 31.20 |
| 2 | *2437.00 | 111.0 AV | | | 1.12 V | 346 | 79.80 | 31.20 |
| 3 | 4874.00 | 46.2 PK | 74.0 | -27.8 | 1.02 V | 220 | 41.70 | 4.50 |
| 4 | 4874.00 | 34.5 AV | 54.0 | -19.5 | 1.02 V | 220 | 30.00 | 4.50 |
| 5 | *5785.00 | 116.5 PK | | | 1.05 V | 300 | 77.90 | 38.60 |
| 6 | *5785.00 | 106.8 AV | | | 1.05 V | 300 | 68.20 | 38.60 |
| 7 | 11570.00 | 67.6 PK | 74.0 | -6.4 | 1.22 V | 301 | 67.60 | 19.00 |
| 8 | 11570.00 | 52.5 AV | 54.0 | -1.5 | 1.22 V | 301 | 33.50 | 19.00 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11n (40MHz) CH 159 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A14 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 117.8 PK | | | 1.00 H | 43 | 86.60 | 31.20 |
| 2 | *2437.00 | 114.1 AV | | | 1.00 H | 43 | 82.90 | 31.20 |
| 3 | 4874.00 | 47.8 PK | 74.0 | -26.2 | 1.00 H | 204 | 43.30 | 4.50 |
| 4 | 4874.00 | 35.0 AV | 54.0 | -19.0 | 1.00 H | 204 | 30.50 | 4.50 |
| 5 | *5785.00 | 116.8 PK | | | 1.03 H | 290 | 78.20 | 38.60 |
| 6 | *5785.00 | 106.8 AV | | | 1.03 H | 290 | 68.20 | 38.60 |
| 7 | *5795.00 | 96.9 PK | | | 1.15 H | 326 | 58.30 | 38.60 |
| 8 | *5795.00 | 85.9 AV | | | 1.15 H | 326 | 47.30 | 38.60 |
| 9 | #5850.00 | 61.5 PK | 76.9 | -15.4 | 1.00 H | 300 | 22.80 | 38.70 |
| 10 | #5850.00 | 50.5 AV | 65.9 | -15.4 | 1.00 H | 300 | 11.80 | 38.70 |
| 11 | 11570.00 | 64.4 PK | 74.0 | -9.6 | 1.10 H | 345 | 45.40 | 19.00 |
| 12 | 11570.00 | 52.6 AV | 54.0 | -1.4 | 1.10 H | 345 | 33.60 | 19.00 |
| 13 | 11590.00 | 61.5 PK | 74.0 | -12.5 | 1.02 H | 205 | 42.50 | 19.00 |
| 14 | 11590.00 | 48.1 AV | 54.0 | -5.9 | 1.02 H | 205 | 29.10 | 19.00 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 114.7 PK | | | 1.10 V | 342 | 83.50 | 31.20 |
| 2 | *2437.00 | 111.0 AV | | | 1.10 V | 342 | 79.80 | 31.20 |
| 3 | 4874.00 | 47.1 PK | 74.0 | -26.9 | 1.02 V | 151 | 42.60 | 4.50 |
| 4 | 4874.00 | 35.0 AV | 54.0 | -19.0 | 1.02 V | 151 | 30.50 | 4.50 |
| 5 | *5785.00 | 112.8 PK | | | 1.01 V | 355 | 74.20 | 38.60 |
| 6 | *5785.00 | 103.7 AV | | | 1.01 V | 355 | 65.10 | 38.60 |
| 7 | *5795.00 | 107.1 PK | | | 1.00 V | 301 | 68.50 | 38.60 |
| 8 | *5795.00 | 95.9 AV | | | 1.00 V | 301 | 57.30 | 38.60 |
| 9 | #5850.00 | 71.7 PK | 87.1 | -15.4 | 1.00 V | 300 | 33.00 | 38.70 |
| 10 | #5850.00 | 60.5 AV | 75.9 | -15.4 | 1.00 V | 300 | 21.80 | 38.70 |
| 11 | 11570.00 | 64.9 PK | 74.0 | -9.1 | 1.06 V | 335 | 45.90 | 19.00 |
| 12 | 11570.00 | 52.6 AV | 54.0 | -1.4 | 1.06 V | 335 | 33.60 | 19.00 |
| 13 | 11590.00 | 64.2 PK | 74.0 | -9.8 | 1.22 V | 75 | 45.20 | 19.00 |
| 14 | 11590.00 | 49.0 AV | 54.0 | -5.0 | 1.22 V | 75 | 30.00 | 19.00 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 149 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A15 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 117.8 PK | | | 1.00 H | 43 | 86.60 | 31.20 |
| 2 | *2437.00 | 114.1 AV | | | 1.00 H | 43 | 82.90 | 31.20 |
| 3 | 4874.00 | 47.0 PK | 74.0 | -27.0 | 1.05 H | 121 | 42.50 | 4.50 |
| 4 | 4874.00 | 35.7 AV | 54.0 | -18.3 | 1.05 H | 121 | 31.20 | 4.50 |
| 5 | 5150.00 | 61.3 PK | 74.0 | -12.7 | 1.15 H | 300 | 56.20 | 5.10 |
| 6 | 5150.00 | 46.4 AV | 54.0 | -7.6 | 1.15 H | 300 | 41.30 | 5.10 |
| 7 | *5180.00 | 113.0 PK | | | 1.10 H | 296 | 75.30 | 37.70 |
| 8 | *5180.00 | 103.0 AV | | | 1.10 H | 296 | 65.30 | 37.70 |
| 9 | #5725.00 | 73.8 PK | 79.0 | -5.2 | 1.44 H | 335 | 35.30 | 38.50 |
| 10 | #5725.00 | 63.8 AV | 69.0 | -5.2 | 1.44 H | 335 | 25.30 | 38.50 |
| 11 | *5745.00 | 99.0 PK | | | 1.45 H | 336 | 60.50 | 38.50 |
| 12 | *5745.00 | 89.0 AV | | | 1.45 H | 336 | 50.50 | 38.50 |
| 13 | #6906.00 | 57.2 PK | 79.0 | -21.8 | 1.32 H | 285 | 47.50 | 9.70 |
| 14 | #6906.00 | 50.7 AV | 69.0 | -18.3 | 1.32 H | 285 | 41.00 | 9.70 |
| 15 | #10360.00 | 60.7 PK | 74.0 | -13.3 | 1.06 H | 15 | 43.20 | 17.50 |
| 16 | #10360.00 | 48.7 AV | 54.0 | -5.3 | 1.06 H | 15 | 31.20 | 17.50 |
| 17 | 11490.00 | 64.6 PK | 74.0 | -9.4 | 1.33 H | 65 | 45.60 | 19.00 |
| 18 | 11490.00 | 48.5 AV | 54.0 | -5.5 | 1.33 H | 65 | 29.50 | 19.00 |
| 19 | #15065.00 | 71.4 PK | 79.0 | -7.6 | 1.21 H | 345 | 49.90 | 21.50 |
| 20 | #15065.00 | 53.0 AV | 69.0 | -16.0 | 1.21 H | 345 | 31.50 | 21.50 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 114.7 PK | | | 1.00 V | 344 | 83.50 | 31.20 |
| 2 | *2437.00 | 110.9 AV | | | 1.00 V | 344 | 79.70 | 31.20 |
| 3 | 4874.00 | 47.1 PK | 74.0 | -26.9 | 1.00 V | 21 | 42.60 | 4.50 |
| 4 | 4874.00 | 34.6 AV | 54.0 | -19.4 | 1.00 V | 21 | 30.10 | 4.50 |
| 5 | 5150.00 | 62.3 PK | 74.0 | -11.7 | 1.03 V | 10 | 57.20 | 5.10 |
| 6 | 5150.00 | 48.2 AV | 54.0 | -5.8 | 1.03 V | 10 | 43.10 | 5.10 |
| 7 | *5180.00 | 111.0 PK | | | 1.03 V | 15 | 73.30 | 37.70 |
| 8 | *5180.00 | 101.2 AV | | | 1.03 V | 15 | 63.50 | 37.70 |
| 9 | #5725.00 | 86.2 PK | 91.4 | -5.2 | 1.44 V | 335 | 47.70 | 38.50 |
| 10 | #5725.00 | 75.8 AV | 81.0 | -5.2 | 1.44 V | 335 | 37.30 | 38.50 |
| 11 | *5745.00 | 111.4 PK | | | 1.00 V | 305 | 72.90 | 38.50 |
| 12 | *5745.00 | 101.0 AV | | | 1.00 V | 305 | 62.50 | 38.50 |
| 13 | #6906.00 | 57.9 PK | 91.4 | -33.5 | 1.06 V | 22 | 48.20 | 9.70 |
| 14 | #6906.00 | 52.2 AV | 81.0 | -28.8 | 1.06 V | 22 | 42.50 | 9.70 |
| 15 | #10360.00 | 60.7 PK | 74.0 | -13.3 | 1.00 V | 222 | 43.20 | 17.50 |
| 16 | #10360.00 | 47.6 AV | 54.0 | -6.4 | 1.00 V | 222 | 30.10 | 17.50 |
| 17 | 11490.00 | 64.3 PK | 74.0 | -9.7 | 1.00 V | 62 | 45.30 | 19.00 |
| 18 | 11490.00 | 48.7 AV | 54.0 | -5.3 | 1.00 V | 62 | 29.70 | 19.00 |
| 19 | #15065.00 | 69.3 PK | 91.4 | -22.1 | 1.00 V | 331 | 47.80 | 21.50 |
| 20 | #15065.00 | 52.9 AV | 81.0 | -28.1 | 1.00 V | 331 | 31.40 | 21.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 40 | FREQUENCY RANGE | 1 ~ 40GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Ted Chang |
| TEST MODE | A16 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 117.7 PK | | | 1.00 H | 35 | 86.50 | 31.20 |
| 2 | *2437.00 | 114.3 AV | | | 1.00 H | 35 | 83.10 | 31.20 |
| 3 | 4874.00 | 47.2 PK | 74.0 | -26.8 | 1.06 H | 251 | 42.70 | 4.50 |
| 4 | 4874.00 | 35.7 AV | 54.0 | -18.3 | 1.06 H | 251 | 31.20 | 4.50 |
| 5 | *5200.00 | 98.3 PK | | | 1.55 H | 336 | 60.50 | 37.80 |
| 6 | *5200.00 | 87.1 AV | | | 1.55 H | 336 | 49.30 | 37.80 |
| 7 | *5785.00 | 116.5 PK | | | 1.09 H | 289 | 77.90 | 38.60 |
| 8 | *5785.00 | 106.7 AV | | | 1.09 H | 289 | 68.10 | 38.60 |
| 9 | #10400.00 | 63.0 PK | 74.0 | -11.0 | 1.00 H | 45 | 45.20 | 17.80 |
| 10 | #10400.00 | 47.9 AV | 54.0 | -6.1 | 1.00 H | 45 | 30.10 | 17.80 |
| 11 | 11570.00 | 65.9 PK | 74.0 | -8.1 | 1.24 H | 298 | 46.90 | 19.00 |
| 12 | 11570.00 | 52.9 AV | 54.0 | -1.1 | 1.24 H | 298 | 33.90 | 19.00 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2437.00 | 114.7 PK | | | 1.00 V | 336 | 83.50 | 31.20 |
| 2 | *2437.00 | 111.1 AV | | | 1.00 V | 336 | 79.90 | 31.20 |
| 3 | 4874.00 | 46.7 PK | 74.0 | -27.3 | 1.05 V | 2 | 42.20 | 4.50 |
| 4 | 4874.00 | 34.6 AV | 54.0 | -19.4 | 1.05 V | 2 | 30.10 | 4.50 |
| 5 | *5200.00 | 110.6 PK | | | 1.00 V | 305 | 72.80 | 37.80 |
| 6 | *5200.00 | 100.6 AV | | | 1.00 V | 305 | 62.80 | 37.80 |
| 7 | *5785.00 | 112.8 PK | | | 1.02 V | 358 | 74.20 | 38.60 |
| 8 | *5785.00 | 103.7 AV | | | 1.02 V | 358 | 65.10 | 38.60 |
| 9 | #10400.00 | 62.4 PK | 74.0 | -11.6 | 1.06 V | 71 | 44.60 | 17.80 |
| 10 | #10400.00 | 49.6 AV | 54.0 | -4.4 | 1.06 V | 71 | 31.80 | 17.80 |
| 11 | 11570.00 | 64.6 PK | 74.0 | -9.4 | 1.10 V | 345 | 45.60 | 19.00 |
| 12 | 11570.00 | 52.6 AV | 54.0 | -1.4 | 1.10 V | 345 | 33.60 | 19.00 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## Below 1GHz data

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.6 QP | 40.0 | -13.4 | 1.25 H | 307 | 41.40 | -14.80 |
| 2 | 154.09 | 20.2 QP | 43.5 | -23.3 | 1.00 H | 61 | 33.70 | -13.50 |
| 3 | 249.17 | 28.0 QP | 46.0 | -18.0 | 1.50 H | 199 | 42.40 | -14.40 |
| 4 | 375.29 | 28.4 QP | 46.0 | -17.6 | 1.25 H | 212 | 39.40 | -11.00 |
| 5 | 600.38 | 36.7 QP | 46.0 | -9.3 | 1.00 H | 15 | 43.10 | -6.40 |
| 6 | 625.60 | 35.0 QP | 46.0 | -11.0 | 1.50 H | 30 | 40.70 | -5.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.7 QP | 40.0 | -13.3 | 1.25 V | 288 | 41.50 | -14.80 |
| 2 | 119.16 | 19.9 QP | 43.5 | -23.6 | 1.00 V | 26 | 36.20 | -16.30 |
| 3 | 262.75 | 21.8 QP | 46.0 | -24.2 | 1.50 V | 81 | 35.60 | -13.80 |
| 4 | 499.48 | 23.5 QP | 46.0 | -22.5 | 1.00 V | 149 | 32.00 | -8.50 |
| 5 | 600.38 | 37.0 QP | 46.0 | -9.0 | 1.50 V | 280 | 43.40 | -6.40 |
| 6 | 875.91 | 29.3 QP | 46.0 | -16.7 | 1.25 V | 261 | 30.80 | -1.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11b CH 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | A2 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.8 QP | 40.0 | -13.2 | 1.25 H | 358 | 41.60 | -14.80 |
| 2 | 179.31 | 18.2 QP | 43.5 | -25.3 | 1.00 H | 91 | 33.20 | -15.00 |
| 3 | 256.93 | 27.4 QP | 46.0 | -18.6 | 1.50 H | 207 | 41.50 | -14.10 |
| 4 | 375.29 | 25.3 QP | 46.0 | -20.7 | 1.00 H | 193 | 36.30 | -11.00 |
| 5 | 600.38 | 35.4 QP | 46.0 | -10.6 | 1.25 H | 127 | 41.80 | -6.40 |
| 6 | 875.91 | 30.7 QP | 46.0 | -15.3 | 1.50 H | 245 | 32.20 | -1.50 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.3 QP | 40.0 | -13.7 | 1.25 V | 244 | 41.10 | -14.80 |
| 2 | 179.31 | 36.2 QP | 43.5 | -7.3 | 1.00 V | 274 | 51.20 | -15.00 |
| 3 | 264.69 | 22.5 QP | 46.0 | -23.5 | 1.50 V | 241 | 36.20 | -13.70 |
| 4 | 359.77 | 26.4 QP | 46.0 | -19.6 | 1.00 V | 274 | 37.80 | -11.40 |
| 5 | 600.38 | 36.0 QP | 46.0 | -10.0 | 1.25 V | 343 | 42.40 | -6.40 |
| 6 | 899.20 | 32.1 QP | 46.0 | -13.9 | 1.50 V | 157 | 32.90 | -0.80 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 36 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | A3 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.6 QP | 40.0 | -13.4 | 1.25 H | 230 | 41.40 | -14.80 |
| 2 | 249.17 | 29.3 QP | 46.0 | -16.7 | 1.00 H | 230 | 43.70 | -14.40 |
| 3 | 390.81 | 34.4 QP | 46.0 | -11.6 | 1.50 H | 18 | 45.20 | -10.80 |
| 4 | 600.38 | 36.6 QP | 46.0 | -9.4 | 1.00 H | 13 | 43.00 | -6.40 |
| 5 | 720.68 | 39.5 QP | 46.0 | -6.5 | 1.25 H | 17 | 43.90 | -4.40 |
| 6 | 837.11 | 40.4 QP | 46.0 | -5.6 | 1.50 H | 220 | 42.50 | -2.10 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 37.66 | 26.4 QP | 40.0 | -13.6 | 1.25 V | 123 | 41.60 | -15.20 |
| 2 | 124.98 | 21.0 QP | 43.5 | -22.5 | 1.00 V | 124 | 36.80 | -15.80 |
| 3 | 264.69 | 23.1 QP | 46.0 | -22.9 | 1.50 V | 84 | 36.80 | -13.70 |
| 4 | 600.38 | 32.6 QP | 46.0 | -13.4 | 1.00 V | 269 | 39.00 | -6.40 |
| 5 | 784.72 | 26.6 QP | 46.0 | -19.4 | 1.50 V | 273 | 29.20 | -2.60 |
| 6 | 875.91 | 30.3 QP | 46.0 | -15.7 | 1.25 V | 160 | 31.80 | -1.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 157 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | A4 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.4 QP | 40.0 | -13.6 | 1.25 H | 189 | 41.20 | -14.80 |
| 2 | 249.17 | 26.8 QP | 46.0 | -19.2 | 1.00 H | 221 | 41.20 | -14.40 |
| 3 | 326.78 | 26.2 QP | 46.0 | -19.8 | 1.50 H | 103 | 37.90 | -11.70 |
| 4 | 600.38 | 36.4 QP | 46.0 | -9.6 | 1.50 H | 125 | 42.80 | -6.40 |
| 5 | 625.60 | 34.7 QP | 46.0 | -11.3 | 1.25 H | 29 | 40.40 | -5.70 |
| 6 | 875.91 | 30.8 QP | 46.0 | -15.2 | 1.50 H | 8 | 32.30 | -1.50 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.7 QP | 40.0 | -13.3 | 1.25 V | 268 | 41.50 | -14.80 |
| 2 | 119.16 | 20.0 QP | 43.5 | -23.5 | 1.00 V | 7 | 36.30 | -16.30 |
| 3 | 249.17 | 23.0 QP | 46.0 | -23.0 | 1.50 V | 119 | 37.40 | -14.40 |
| 4 | 375.29 | 22.2 QP | 46.0 | -23.8 | 1.25 V | 80 | 33.20 | -11.00 |
| 5 | 600.38 | 32.9 QP | 46.0 | -13.1 | 1.00 V | 268 | 39.30 | -6.40 |
| 6 | 784.72 | 27.2 QP | 46.0 | -18.8 | 1.50 V | 35 | 29.80 | -2.60 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 36 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | A5 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.4 QP | 40.0 | -13.6 | 1.25 H | 7 | 41.20 | -14.80 |
| 2 | 249.17 | 28.6 QP | 46.0 | -17.4 | 1.00 H | 225 | 43.00 | -14.40 |
| 3 | 299.62 | 26.0 QP | 46.0 | -20.0 | 1.50 H | 61 | 38.40 | -12.40 |
| 4 | 600.38 | 35.9 QP | 46.0 | -10.1 | 1.00 H | 130 | 42.30 | -6.40 |
| 5 | 749.79 | 30.2 QP | 46.0 | -15.8 | 1.50 H | 335 | 33.70 | -3.50 |
| 6 | 899.20 | 32.0 QP | 46.0 | -14.0 | 1.50 H | 333 | 32.80 | -0.80 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.5 QP | 40.0 | -13.5 | 1.25 V | 290 | 41.30 | -14.80 |
| 2 | 119.16 | 19.8 QP | 43.5 | -23.7 | 1.00 V | 36 | 36.10 | -16.30 |
| 3 | 264.69 | 21.9 QP | 46.0 | -24.1 | 1.50 V | 254 | 35.60 | -13.70 |
| 4 | 375.29 | 21.9 QP | 46.0 | -24.1 | 1.00 V | 230 | 32.90 | -11.00 |
| 5 | 600.38 | 33.4 QP | 46.0 | -12.6 | 1.25 V | 267 | 39.80 | -6.40 |
| 6 | 899.20 | 31.4 QP | 46.0 | -14.6 | 1.50 V | 41 | 32.20 | -0.80 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 157 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | A6 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 26.8 QP | 40.0 | -13.2 | 1.25 H | 170 | 41.60 | -14.80 |
| 2 | 249.17 | 29.2 QP | 46.0 | -16.8 | 1.00 H | 241 | 43.60 | -14.40 |
| 3 | 357.83 | 27.8 QP | 46.0 | -18.2 | 1.50 H | 86 | 39.30 | -11.50 |
| 4 | 600.38 | 38.4 QP | 46.0 | -7.6 | 1.00 H | 20 | 44.80 | -6.40 |
| 5 | 625.60 | 35.4 QP | 46.0 | -10.6 | 1.25 H | 35 | 41.10 | -5.70 |
| 6 | 875.91 | 31.5 QP | 46.0 | -14.5 | 1.50 H | 243 | 33.00 | -1.50 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 25.9 QP | 40.0 | -14.1 | 1.25 V | 301 | 40.70 | -14.80 |
| 2 | 119.16 | 19.5 QP | 43.5 | -24.0 | 1.00 V | 173 | 35.80 | -16.30 |
| 3 | 249.17 | 23.0 QP | 46.0 | -23.0 | 1.50 V | 108 | 37.40 | -14.40 |
| 4 | 600.38 | 33.0 QP | 46.0 | -13.0 | 1.00 V | 272 | 39.40 | -6.40 |
| 5 | 771.13 | 26.5 QP | 46.0 | -19.5 | 1.50 V | 177 | 29.30 | -2.80 |
| 6 | 953.53 | 29.4 QP | 46.0 | -16.6 | 1.50 V | 118 | 29.30 | 0.10 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 27.8 QP | 40.0 | -12.2 | 1.25 H | 93 | 42.60 | -14.80 |
| 2 | 140.50 | 23.7 QP | 43.5 | -19.8 | 1.00 H | 206 | 38.40 | -14.70 |
| 3 | 282.15 | 30.5 QP | 46.0 | -15.5 | 1.50 H | 96 | 43.30 | -12.80 |
| 4 | 375.29 | 27.4 QP | 46.0 | -18.6 | 1.25 H | 212 | 38.40 | -11.00 |
| 5 | 625.60 | 37.7 QP | 46.0 | -8.3 | 1.00 H | 29 | 43.40 | -5.70 |
| 6 | 749.79 | 28.2 QP | 46.0 | -17.8 | 1.50 H | 99 | 31.70 | -3.50 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 59.01 | 36.7 QP | 40.0 | -3.3 | 1.25 V | 18 | 51.50 | -14.80 |
| 2 | 231.70 | 25.2 QP | 46.0 | -20.8 | 1.00 V | 248 | 41.10 | -15.90 |
| 3 | 282.15 | 28.2 QP | 46.0 | -17.8 | 1.50 V | 241 | 41.00 | -12.80 |
| 4 | 375.29 | 25.7 QP | 46.0 | -20.3 | 1.00 V | 202 | 36.70 | -11.00 |
| 5 | 625.60 | 33.5 QP | 46.0 | -12.5 | 1.25 V | 82 | 39.20 | -5.70 |
| 6 | 875.91 | 31.7 QP | 46.0 | -14.3 | 1.50 V | 133 | 33.20 | -1.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11b CH 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | B2 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 28.0 QP | 40.0 | -12.0 | 1.25 H | 66 | 42.80 | -14.80 |
| 2 | 140.50 | 23.7 QP | 43.5 | -19.8 | 1.00 H | 229 | 38.40 | -14.70 |
| 3 | 282.15 | 30.1 QP | 46.0 | -15.9 | 1.50 H | 90 | 42.90 | -12.80 |
| 4 | 375.29 | 27.4 QP | 46.0 | -18.6 | 1.00 H | 195 | 38.40 | -11.00 |
| 5 | 625.60 | 38.2 QP | 46.0 | -7.8 | 1.25 H | 24 | 43.90 | -5.70 |
| 6 | 875.91 | 31.6 QP | 46.0 | -14.4 | 1.50 H | 10 | 33.10 | -1.50 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 59.01 | 36.9 QP | 40.0 | -3.1 | 1.25 V | 5 | 51.70 | -14.80 |
| 2 | 262.75 | 26.9 QP | 46.0 | -19.1 | 1.00 V | 234 | 40.70 | -13.80 |
| 3 | 280.21 | 27.5 QP | 46.0 | -18.5 | 1.50 V | 246 | 40.30 | -12.80 |
| 4 | 375.29 | 26.0 QP | 46.0 | -20.0 | 1.25 V | 226 | 37.00 | -11.00 |
| 5 | 625.60 | 33.2 QP | 46.0 | -12.8 | 1.00 V | 79 | 38.90 | -5.70 |
| 6 | 875.91 | 32.7 QP | 46.0 | -13.3 | 1.50 V | 131 | 34.20 | -1.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 36 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | B3 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 28.7 QP | 40.0 | -11.3 | 1.25 H | 67 | 43.50 | -14.80 |
| 2 | 159.91 | 22.8 QP | 43.5 | -20.7 | 1.00 H | 226 | 36.50 | -13.70 |
| 3 | 270.51 | 30.9 QP | 46.0 | -15.1 | 1.50 H | 94 | 44.10 | -13.20 |
| 4 | 375.29 | 30.1 QP | 46.0 | -15.9 | 1.25 H | 80 | 41.10 | -11.00 |
| 5 | 625.60 | 37.2 QP | 46.0 | -8.8 | 1.00 H | 31 | 42.90 | -5.70 |
| 6 | 720.68 | 38.1 QP | 46.0 | -7.9 | 1.50 H | 165 | 42.50 | -4.40 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 59.01 | 37.2 QP | 40.0 | -2.8 | 1.25 V | 11 | 52.00 | -14.80 |
| 2 | 266.63 | 28.4 QP | 46.0 | -17.6 | 1.00 V | 228 | 42.00 | -13.60 |
| 3 | 375.29 | 31.4 QP | 46.0 | -14.6 | 1.50 V | 248 | 42.40 | -11.00 |
| 4 | 600.38 | 32.4 QP | 46.0 | -13.6 | 1.00 V | 266 | 38.80 | -6.40 |
| 5 | 625.60 | 33.9 QP | 46.0 | -12.1 | 1.50 V | 324 | 39.60 | -5.70 |
| 6 | 875.91 | 30.9 QP | 46.0 | -15.1 | 1.25 V | 122 | 32.40 | -1.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 157 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | B4 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 27.8 QP | 40.0 | -12.2 | 1.25 H | 54 | 42.60 | -14.80 |
| 2 | 157.97 | 22.7 QP | 43.5 | -20.8 | 1.00 H | 225 | 36.80 | -14.10 |
| 3 | 282.15 | 30.5 QP | 46.0 | -15.5 | 1.50 H | 95 | 43.30 | -12.80 |
| 4 | 375.29 | 31.2 QP | 46.0 | -14.8 | 1.00 H | 201 | 42.20 | -11.00 |
| 5 | 625.60 | 36.6 QP | 46.0 | -9.4 | 1.25 H | 35 | 42.30 | -5.70 |
| 6 | 875.91 | 32.3 QP | 46.0 | -13.7 | 1.50 H | 245 | 33.80 | -1.50 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 59.01 | 36.7 QP | 40.0 | -3.3 | 1.25 V | 344 | 51.50 | -14.80 |
| 2 | 264.69 | 27.0 QP | 46.0 | -19.0 | 1.00 V | 246 | 40.70 | -13.70 |
| 3 | 375.29 | 29.2 QP | 46.0 | -16.8 | 1.50 V | 267 | 40.20 | -11.00 |
| 4 | 600.38 | 32.8 QP | 46.0 | -13.2 | 1.25 V | 341 | 39.20 | -6.40 |
| 5 | 788.60 | 27.0 QP | 46.0 | -19.0 | 1.00 V | 166 | 29.60 | -2.60 |
| 6 | 875.91 | 32.4 QP | 46.0 | -13.6 | 1.50 V | 136 | 33.90 | -1.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 36 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | B5 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 27.7 QP | 40.0 | -12.3 | 1.25 H | 242 | 42.50 | -14.80 |
| 2 | 140.50 | 22.4 QP | 43.5 | -21.1 | 1.50 H | 238 | 37.10 | -14.70 |
| 3 | 282.15 | 30.4 QP | 46.0 | -15.6 | 1.00 H | 94 | 43.20 | -12.80 |
| 4 | 375.29 | 30.6 QP | 46.0 | -15.4 | 1.25 H | 194 | 41.60 | -11.00 |
| 5 | 625.60 | 37.7 QP | 46.0 | -8.3 | 1.00 H | 29 | 43.40 | -5.70 |
| 6 | 875.91 | 31.8 QP | 46.0 | -14.2 | 1.50 H | 241 | 33.30 | -1.50 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 36.7 QP | 40.0 | -3.3 | 1.25 V | 359 | 51.50 | -14.80 |
| 2 | 284.09 | 27.5 QP | 46.0 | -18.5 | 1.00 V | 238 | 40.30 | -12.80 |
| 3 | 375.29 | 29.6 QP | 46.0 | -16.4 | 1.50 V | 253 | 40.60 | -11.00 |
| 4 | 600.38 | 32.2 QP | 46.0 | -13.8 | 1.00 V | 111 | 38.60 | -6.40 |
| 5 | 693.52 | 26.0 QP | 46.0 | -20.0 | 1.25 V | 280 | 30.90 | -4.90 |
| 6 | 875.91 | 30.5 QP | 46.0 | -15.5 | 1.50 V | 124 | 32.00 | -1.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 157 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH | TESTED BY | Chris Lin |
| TEST MODE | B6 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 57.07 | 28.0 QP | 40.0 | -12.0 | 1.25 H | 70 | 42.80 | -14.80 |
| 2 | 156.03 | 22.4 QP | 43.5 | -21.1 | 1.00 H | 238 | 36.30 | -13.90 |
| 3 | 282.15 | 30.4 QP | 46.0 | -15.6 | 1.50 H | 93 | 43.20 | -12.80 |
| 4 | 375.29 | 30.6 QP | 46.0 | -15.4 | 1.25 H | 208 | 41.60 | -11.00 |
| 5 | 625.60 | 37.2 QP | 46.0 | -8.8 | 1.00 H | 28 | 42.90 | -5.70 |
| 6 | 875.91 | 32.1 QP | 46.0 | -13.9 | 1.50 H | 12 | 33.60 | -1.50 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 59.01 | 37.5 QP | 40.0 | -2.5 | 1.25 V | 325 | 52.30 | -14.80 |
| 2 | 280.21 | 27.6 QP | 46.0 | -18.4 | 1.00 V | 253 | 40.40 | -12.80 |
| 3 | 375.29 | 29.1 QP | 46.0 | -16.9 | 1.50 V | 250 | 40.10 | -11.00 |
| 4 | 625.60 | 32.5 QP | 46.0 | -13.5 | 1.00 V | 304 | 38.20 | -5.70 |
| 5 | 773.07 | 26.3 QP | 46.0 | -19.7 | 1.25 V | 174 | 29.10 | -2.80 |
| 6 | 875.91 | 30.9 QP | 46.0 | -15.1 | 1.50 V | 134 | 32.40 | -1.50 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) – Pre-Amplifier Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

## 4.2 CONDUCTED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56 | 56 to 46 |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

**NOTE**: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| Test Receiver ROHDE & SCHWARZ | ESCS30 | 100288 | Nov. 08, 2013 | Nov. 07, 2014 |
| RF signal cable Woken | 5D-FB | Cable-HYCO2-01 | Dec. 28, 2012 | Dec. 27, 2013 |
| LISN ROHDE & SCHWARZ (EUT) | ESH2-Z5 | 100100 | Dec. 21, 2012 | Dec. 20, 2013 |
| LISN ROHDE & SCHWARZ (Peripheral) | ESH3-Z5 | 100312 | Jul. 08, 2013 | Jul. 07, 2014 |
| Software ADT | BV ADT_Cond_ V7.3.7.3 | NA | NA | NA |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 2.
3. The VCCI Site Registration No. is C-2047.

### 4.2.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

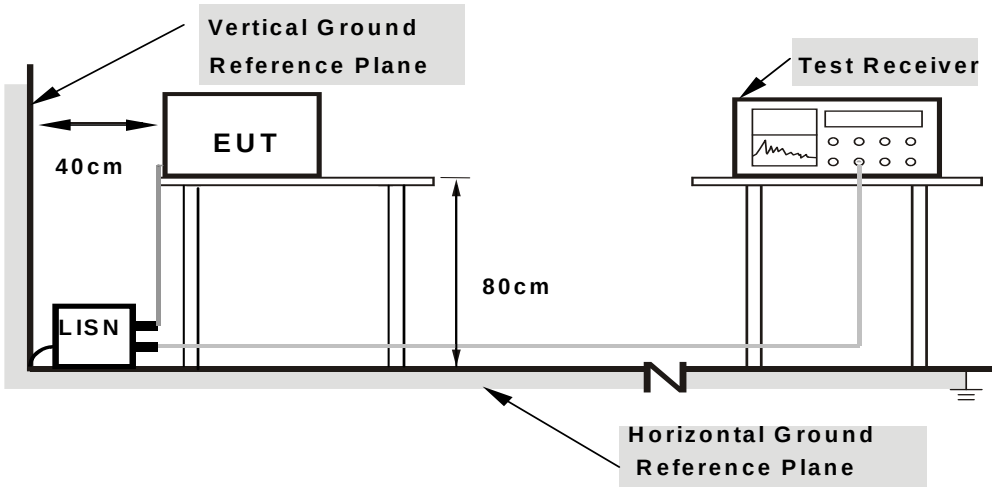
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

## 4.2.5 TEST SETUP




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

For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

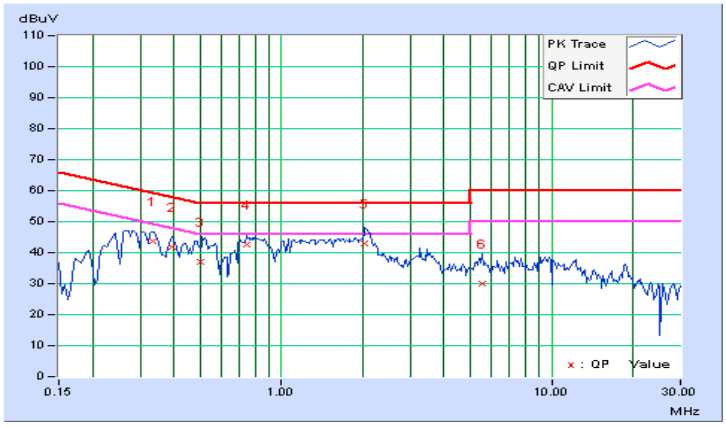
## 4.2.7 TEST RESULTS

| CHANNEL | 802.11b CH 6 + 802.11a CH 36 + 802.11b CH 6 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| PHASE | Line 1 | TEST MODE | A1 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.33359 | 0.21 | 43.32 | 30.97 | 43.53 | 31.18 | 59.36 | 49.36 | -15.83 | -18.18 |
| 2 | 0.39609 | 0.22 | 41.63 | 29.29 | 41.85 | 29.51 | 57.93 | 47.93 | -16.09 | -18.43 |
| 3 | 0.50000 | 0.23 | 36.96 | 23.14 | 37.19 | 23.37 | 56.00 | 46.00 | -18.81 | -22.63 |
| 4 | 0.73984 | 0.26 | 42.41 | 31.62 | 42.67 | 31.88 | 56.00 | 46.00 | -13.33 | -14.12 |
| 5 | 2.03906 | 0.32 | 42.57 | 33.36 | 42.89 | 33.68 | 56.00 | 46.00 | -13.11 | -12.32 |
| 6 | 5.52344 | 0.42 | 29.60 | 16.73 | 30.02 | 17.15 | 60.00 | 50.00 | -29.98 | -32.85 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

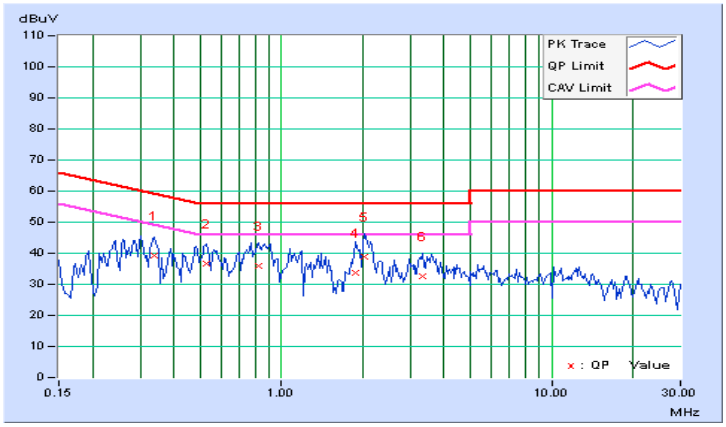


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11b CH 6 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | A1 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.33750 | 0.24 | 39.05 | 26.89 | 39.29 | 27.13 | 59.26 | 49.26 | -19.97 | -22.13 |
| 2 | 0.52891 | 0.27 | 36.42 | 23.88 | 36.69 | 24.15 | 56.00 | 46.00 | -19.31 | -21.85 |
| 3 | 0.82188 | 0.26 | 35.80 | 22.51 | 36.06 | 22.77 | 56.00 | 46.00 | -19.94 | -23.23 |
| 4 | 1.88672 | 0.31 | 33.46 | 19.28 | 33.77 | 19.59 | 56.00 | 46.00 | -22.23 | -26.41 |
| 5 | 2.03125 | 0.32 | 38.41 | 23.45 | 38.73 | 23.77 | 56.00 | 46.00 | -17.27 | -22.23 |
| 6 | 3.33984 | 0.41 | 32.03 | 18.39 | 32.44 | 18.80 | 56.00 | 46.00 | -23.56 | -27.20 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

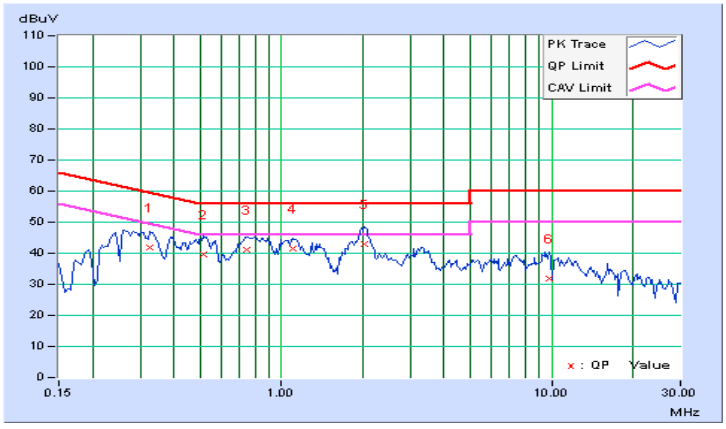


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11b CH 6 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | A2 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.32578 | 0.21 | 41.65 | 25.98 | 41.86 | 26.19 | 59.56 | 49.56 | -17.70 | -23.37 |
| 2 | 0.51328 | 0.23 | 39.57 | 26.28 | 39.80 | 26.51 | 56.00 | 46.00 | -16.20 | -19.49 |
| 3 | 0.73984 | 0.26 | 41.00 | 28.14 | 41.26 | 28.40 | 56.00 | 46.00 | -14.74 | -17.60 |
| 4 | 1.10547 | 0.29 | 41.12 | 27.72 | 41.41 | 28.01 | 56.00 | 46.00 | -14.59 | -17.99 |
| 5 | 2.01953 | 0.32 | 42.48 | 31.41 | 42.80 | 31.73 | 56.00 | 46.00 | -13.20 | -14.27 |
| 6 | 9.83203 | 0.49 | 31.36 | 19.29 | 31.85 | 19.78 | 60.00 | 50.00 | -28.15 | -30.22 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

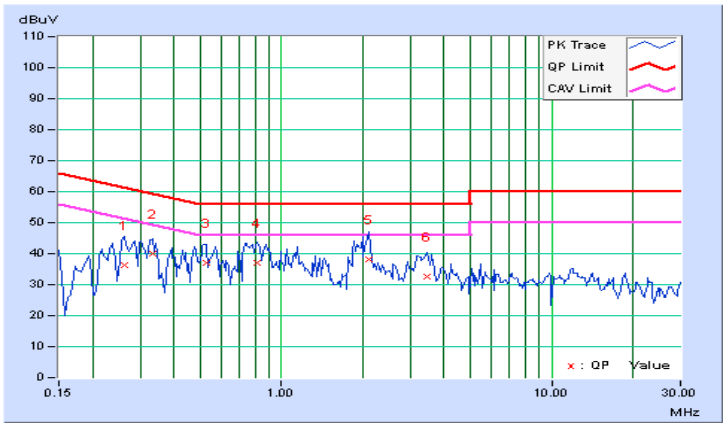


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11b CH 6 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | A2 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.26328 | 0.22 | 35.97 | 16.60 | 36.19 | 16.82 | 61.33 | 51.33 | -25.14 | -34.51 |
| 2 | 0.33359 | 0.24 | 39.60 | 26.53 | 39.84 | 26.77 | 59.36 | 49.36 | -19.52 | -22.59 |
| 3 | 0.52500 | 0.27 | 36.62 | 24.51 | 36.89 | 24.78 | 56.00 | 46.00 | -19.11 | -21.22 |
| 4 | 0.81797 | 0.26 | 36.63 | 23.65 | 36.89 | 23.91 | 56.00 | 46.00 | -19.11 | -22.09 |
| 5 | 2.10156 | 0.33 | 37.83 | 23.37 | 38.16 | 23.70 | 56.00 | 46.00 | -17.84 | -22.30 |
| 6 | 3.46094 | 0.41 | 32.21 | 18.26 | 32.62 | 18.67 | 56.00 | 46.00 | -23.38 | -27.33 |
| 7 | 6.11275 | 0.46 | 36.35 | 23.80 | 36.81 | 24.26 | 60.00 | 50.00 | -23.19 | -25.74 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

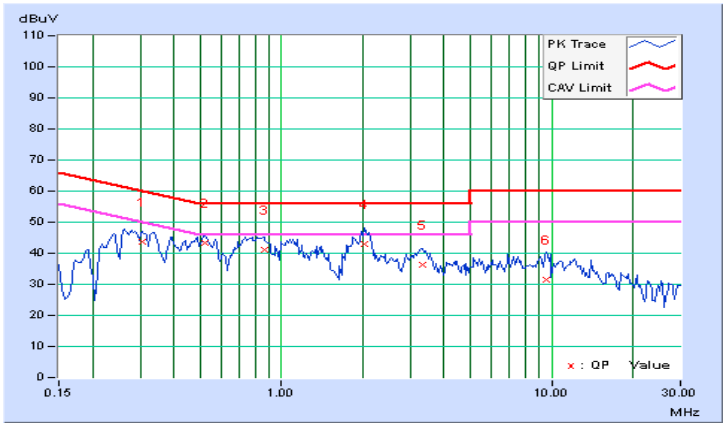


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 36 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | A3 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.30625 | 0.21 | 43.33 | 30.29 | 43.54 | 30.50 | 60.07 | 50.07 | -16.53 | -19.57 |
| 2 | 0.52109 | 0.23 | 43.11 | 33.50 | 43.34 | 33.73 | 56.00 | 46.00 | -12.66 | -12.27 |
| 3 | 0.86094 | 0.27 | 40.68 | 29.63 | 40.95 | 29.90 | 56.00 | 46.00 | -15.05 | -16.10 |
| 4 | 2.02344 | 0.32 | 42.76 | 31.79 | 43.08 | 32.11 | 56.00 | 46.00 | -12.92 | -13.89 |
| 5 | 3.31641 | 0.37 | 35.86 | 24.64 | 36.23 | 25.01 | 56.00 | 46.00 | -19.77 | -20.99 |
| 6 | 9.51563 | 0.48 | 30.83 | 19.72 | 31.31 | 20.20 | 60.00 | 50.00 | -28.69 | -29.80 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

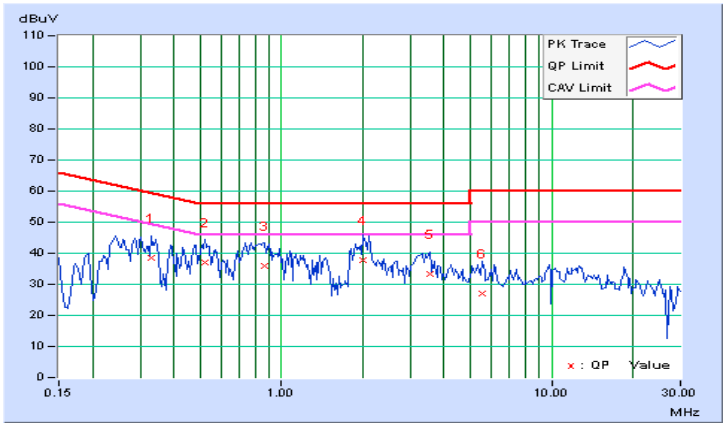


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 36 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | A3 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.32969 | 0.24 | 38.33 | 23.63 | 38.57 | 23.87 | 59.46 | 49.46 | -20.89 | -25.59 |
| 2 | 0.52109 | 0.27 | 36.64 | 22.18 | 36.91 | 22.45 | 56.00 | 46.00 | -19.09 | -23.55 |
| 3 | 0.86875 | 0.26 | 35.79 | 21.35 | 36.05 | 21.61 | 56.00 | 46.00 | -19.95 | -24.39 |
| 4 | 1.99219 | 0.32 | 37.36 | 24.06 | 37.68 | 24.38 | 56.00 | 46.00 | -18.32 | -21.62 |
| 5 | 3.55078 | 0.42 | 32.87 | 17.84 | 33.29 | 18.26 | 56.00 | 46.00 | -22.71 | -27.74 |
| 6 | 5.55078 | 0.48 | 26.65 | 13.83 | 27.13 | 14.31 | 60.00 | 50.00 | -32.87 | -35.69 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

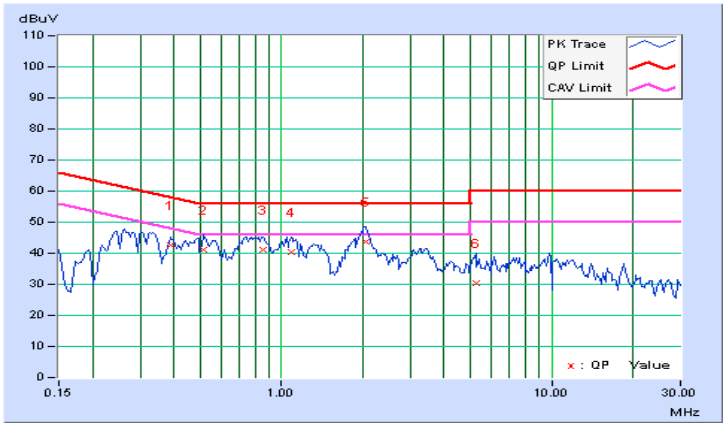


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 157 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | A4 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.38828 | 0.22 | 42.34 | 31.75 | 42.56 | 31.97 | 58.10 | 48.10 | -15.54 | -16.13 |
| 2 | 0.51719 | 0.23 | 41.05 | 27.16 | 41.28 | 27.39 | 56.00 | 46.00 | -14.72 | -18.61 |
| 3 | 0.85703 | 0.27 | 40.89 | 28.07 | 41.16 | 28.34 | 56.00 | 46.00 | -14.84 | -17.66 |
| 4 | 1.08984 | 0.29 | 40.04 | 28.48 | 40.33 | 28.77 | 56.00 | 46.00 | -15.67 | -17.23 |
| 5 | 2.05859 | 0.32 | 43.20 | 31.54 | 43.52 | 31.86 | 56.00 | 46.00 | -12.48 | -14.14 |
| 6 | 5.28906 | 0.42 | 30.10 | 17.89 | 30.52 | 18.31 | 60.00 | 50.00 | -29.48 | -31.69 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

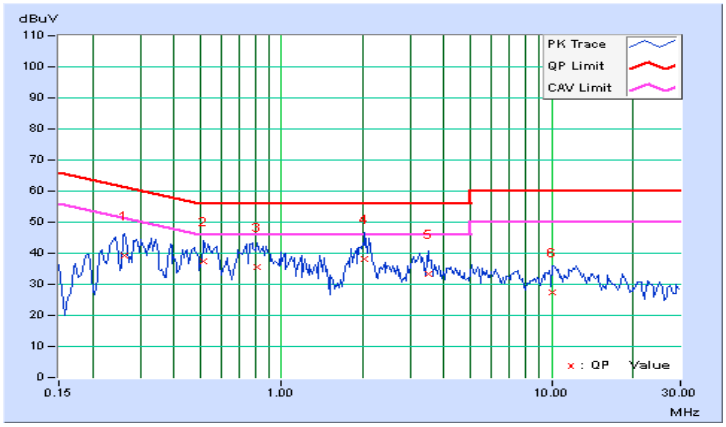


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 157 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | A4 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.26328 | 0.22 | 39.08 | 24.39 | 39.30 | 24.61 | 61.33 | 51.33 | -22.03 | -26.72 |
| 2 | 0.51719 | 0.27 | 37.20 | 22.40 | 37.47 | 22.67 | 56.00 | 46.00 | -18.53 | -23.33 |
| 3 | 0.81016 | 0.26 | 35.26 | 21.68 | 35.52 | 21.94 | 56.00 | 46.00 | -20.48 | -24.06 |
| 4 | 2.03906 | 0.32 | 37.93 | 24.32 | 38.25 | 24.64 | 56.00 | 46.00 | -17.75 | -21.36 |
| 5 | 3.50391 | 0.42 | 32.85 | 18.26 | 33.27 | 18.68 | 56.00 | 46.00 | -22.73 | -27.32 |
| 6 | 10.00391 | 0.57 | 26.90 | 15.92 | 27.47 | 16.49 | 60.00 | 50.00 | -32.53 | -33.51 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

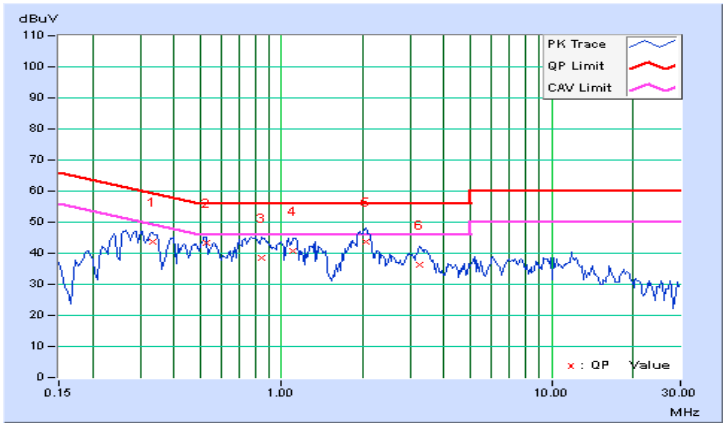


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 36 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | A5 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.33359 | 0.21 | 43.60 | 32.61 | 43.81 | 32.82 | 59.36 | 49.36 | -15.55 | -16.54 |
| 2 | 0.52500 | 0.23 | 43.13 | 33.35 | 43.36 | 33.58 | 56.00 | 46.00 | -12.64 | -12.42 |
| 3 | 0.84531 | 0.27 | 38.33 | 23.98 | 38.60 | 24.25 | 56.00 | 46.00 | -17.40 | -21.75 |
| 4 | 1.10156 | 0.29 | 40.63 | 28.26 | 40.92 | 28.55 | 56.00 | 46.00 | -15.08 | -17.45 |
| 5 | 2.04297 | 0.32 | 43.43 | 31.69 | 43.75 | 32.01 | 56.00 | 46.00 | -12.25 | -13.99 |
| 6 | 3.25391 | 0.37 | 36.04 | 24.98 | 36.41 | 25.35 | 56.00 | 46.00 | -19.59 | -20.65 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

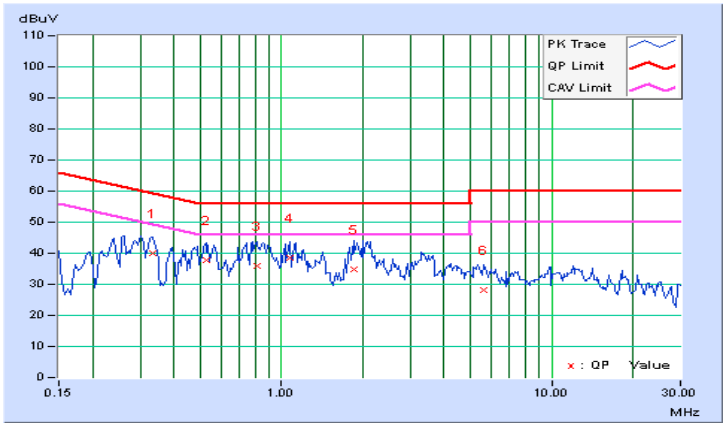


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 36 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | A5 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.33359 | 0.24 | 39.76 | 26.83 | 40.00 | 27.07 | 59.36 | 49.36 | -19.36 | -22.29 |
| 2 | 0.52500 | 0.27 | 37.36 | 23.90 | 37.63 | 24.17 | 56.00 | 46.00 | -18.37 | -21.83 |
| 3 | 0.81016 | 0.26 | 35.72 | 21.42 | 35.98 | 21.68 | 56.00 | 46.00 | -20.02 | -24.32 |
| 4 | 1.07422 | 0.26 | 38.27 | 21.58 | 38.53 | 21.84 | 56.00 | 46.00 | -17.47 | -24.16 |
| 5 | 1.85547 | 0.31 | 34.56 | 21.58 | 34.87 | 21.89 | 56.00 | 46.00 | -21.13 | -24.11 |
| 6 | 5.58594 | 0.48 | 27.83 | 13.23 | 28.31 | 13.71 | 60.00 | 50.00 | -31.69 | -36.29 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

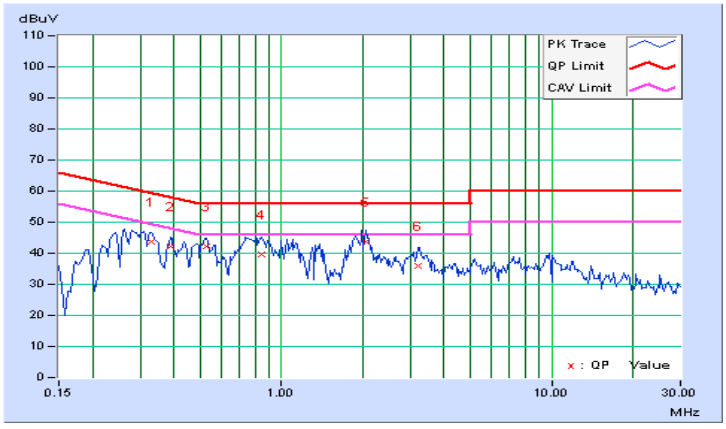


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 157 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | A6 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.32969 | 0.21 | 43.53 | 30.37 | 43.74 | 30.58 | 59.46 | 49.46 | -15.72 | -18.88 |
| 2 | 0.38828 | 0.22 | 42.06 | 31.73 | 42.28 | 31.95 | 58.10 | 48.10 | -15.82 | -16.15 |
| 3 | 0.52891 | 0.24 | 41.80 | 31.52 | 42.04 | 31.76 | 56.00 | 46.00 | -13.96 | -14.24 |
| 4 | 0.84922 | 0.27 | 39.25 | 25.24 | 39.52 | 25.51 | 56.00 | 46.00 | -16.48 | -20.49 |
| 5 | 2.05469 | 0.32 | 43.36 | 31.50 | 43.68 | 31.82 | 56.00 | 46.00 | -12.32 | -14.18 |
| 6 | 3.22266 | 0.37 | 35.69 | 23.38 | 36.06 | 23.75 | 56.00 | 46.00 | -19.94 | -22.25 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

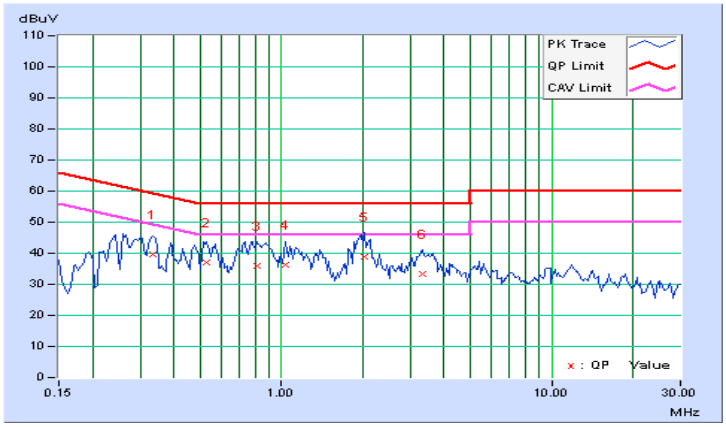


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 157 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | A6 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.33359 | 0.24 | 39.33 | 26.09 | 39.57 | 26.33 | 59.36 | 49.36 | -19.79 | -23.03 |
| 2 | 0.52500 | 0.27 | 36.82 | 24.77 | 37.09 | 25.04 | 56.00 | 46.00 | -18.91 | -20.96 |
| 3 | 0.81016 | 0.26 | 35.60 | 21.96 | 35.86 | 22.22 | 56.00 | 46.00 | -20.14 | -23.78 |
| 4 | 1.03516 | 0.26 | 36.16 | 20.88 | 36.42 | 21.14 | 56.00 | 46.00 | -19.58 | -24.86 |
| 5 | 2.02344 | 0.32 | 38.63 | 24.98 | 38.95 | 25.30 | 56.00 | 46.00 | -17.05 | -20.70 |
| 6 | 3.34375 | 0.41 | 32.95 | 18.57 | 33.36 | 18.98 | 56.00 | 46.00 | -22.64 | -27.02 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

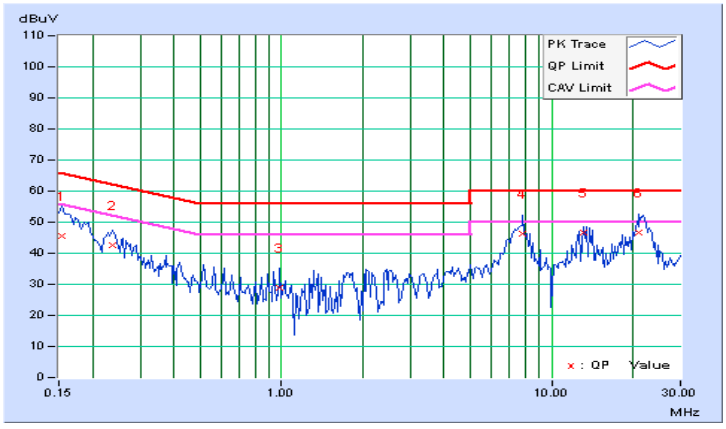


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11b CH 6 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | B1 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15391 | 0.19 | 45.42 | 18.22 | 45.61 | 18.41 | 65.79 | 55.79 | -20.18 | -37.38 |
| 2 | 0.23594 | 0.20 | 42.34 | 34.82 | 42.54 | 35.02 | 62.24 | 52.24 | -19.69 | -17.21 |
| 3 | 0.98594 | 0.29 | 28.75 | 28.58 | 29.04 | 28.87 | 56.00 | 46.00 | -26.96 | -17.13 |
| 4 | 7.84375 | 0.46 | 45.92 | 45.52 | 46.38 | 45.98 | 60.00 | 50.00 | -13.62 | -4.02 |
| 5 | 13.07031 | 0.56 | 46.03 | 45.43 | 46.59 | 45.99 | 60.00 | 50.00 | -13.41 | -4.01 |
| 6 | 21.14844 | 0.72 | 45.87 | 45.17 | 46.59 | 45.89 | 60.00 | 50.00 | -13.41 | -4.11 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

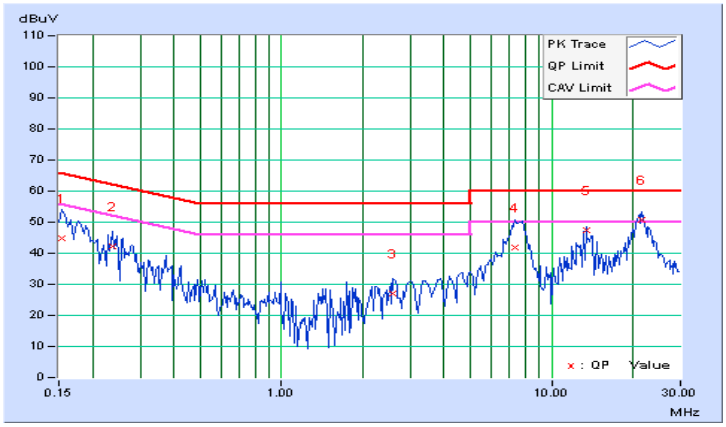


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11b CH 6 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | B1 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15391 | 0.19 | 44.48 | 17.76 | 44.67 | 17.95 | 65.79 | 55.79 | -21.11 | -37.83 |
| 2 | 0.23594 | 0.20 | 42.10 | 32.93 | 42.30 | 33.13 | 62.24 | 52.24 | -19.93 | -19.10 |
| 3 | 2.59766 | 0.36 | 26.58 | 22.07 | 26.94 | 22.43 | 56.00 | 46.00 | -29.06 | -23.57 |
| 4 | 7.36720 | 0.52 | 41.22 | 35.76 | 41.74 | 36.28 | 60.00 | 50.00 | -18.26 | -13.72 |
| 5 | 13.55078 | 0.66 | 46.75 | 44.09 | 47.41 | 44.75 | 60.00 | 50.00 | -12.59 | -5.25 |
| 6 | 21.63281 | 0.81 | 49.83 | 45.44 | 50.64 | 46.25 | 60.00 | 50.00 | -9.36 | -3.75 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

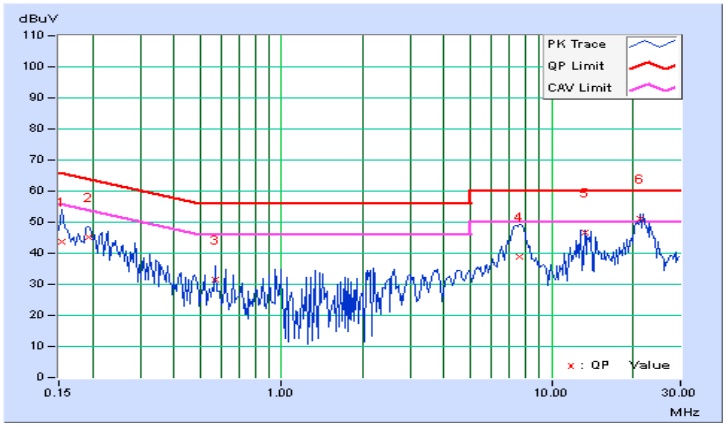


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11b CH 6 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | B2 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15391 | 0.19 | 43.45 | 17.72 | 43.64 | 17.91 | 65.79 | 55.79 | -22.15 | -37.88 |
| 2 | 0.19297 | 0.20 | 44.88 | 36.09 | 45.08 | 36.29 | 63.91 | 53.91 | -18.83 | -17.62 |
| 3 | 0.56797 | 0.24 | 31.11 | 31.01 | 31.35 | 31.25 | 56.00 | 46.00 | -24.65 | -14.75 |
| 4 | 7.59375 | 0.45 | 38.39 | 32.38 | 38.84 | 32.83 | 60.00 | 50.00 | -21.16 | -17.17 |
| 5 | 13.31641 | 0.57 | 46.26 | 45.70 | 46.83 | 46.27 | 60.00 | 50.00 | -13.17 | -3.73 |
| 6 | 21.40625 | 0.72 | 50.57 | 47.01 | 51.29 | 47.73 | 60.00 | 50.00 | -8.71 | -2.27 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

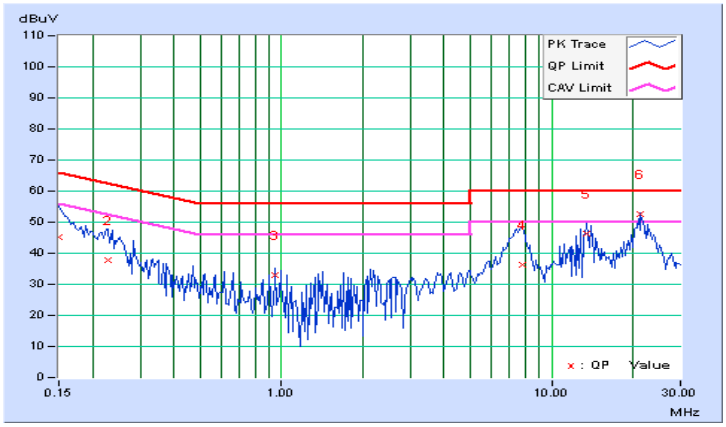


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11b CH 6 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | B2 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15005 | 0.19 | 45.09 | 27.44 | 45.28 | 27.63 | 66.00 | 56.00 | -20.71 | -28.36 |
| 2 | 0.22812 | 0.20 | 37.66 | 14.78 | 37.86 | 14.98 | 62.52 | 52.52 | -24.66 | -37.54 |
| 3 | 0.94688 | 0.26 | 32.59 | 32.35 | 32.85 | 32.61 | 56.00 | 46.00 | -23.15 | -13.39 |
| 4 | 7.76953 | 0.53 | 35.87 | 28.05 | 36.40 | 28.58 | 60.00 | 50.00 | -23.60 | -21.42 |
| 5 | 13.55469 | 0.66 | 45.74 | 45.32 | 46.40 | 45.98 | 60.00 | 50.00 | -13.60 | -4.02 |
| 6 | 21.40234 | 0.81 | 51.73 | 46.02 | 52.54 | 46.83 | 60.00 | 50.00 | -7.46 | -3.17 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

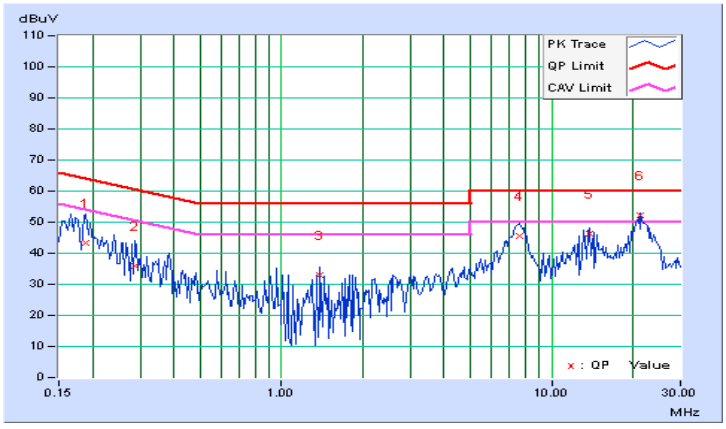


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 36 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | B3 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18906 | 0.20 | 43.18 | 34.35 | 43.38 | 34.55 | 64.08 | 54.08 | -20.70 | -19.53 |
| 2 | 0.28672 | 0.21 | 35.67 | 31.68 | 35.88 | 31.89 | 60.62 | 50.62 | -24.74 | -18.73 |
| 3 | 1.39453 | 0.30 | 32.71 | 32.07 | 33.01 | 32.37 | 56.00 | 46.00 | -22.99 | -13.63 |
| 4 | 7.58984 | 0.45 | 45.26 | 45.08 | 45.71 | 45.53 | 60.00 | 50.00 | -14.29 | -4.47 |
| 5 | 13.80078 | 0.58 | 45.69 | 45.06 | 46.27 | 45.64 | 60.00 | 50.00 | -13.73 | -4.36 |
| 6 | 21.41797 | 0.72 | 51.39 | 47.11 | 52.11 | 47.83 | 60.00 | 50.00 | -7.89 | -2.17 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

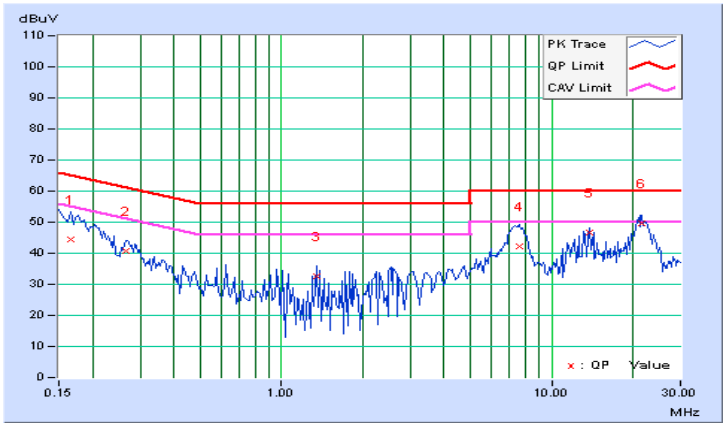


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 36 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | B3 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16562 | 0.19 | 44.40 | 35.75 | 44.59 | 35.94 | 65.18 | 55.18 | -20.58 | -19.23 |
| 2 | 0.26719 | 0.22 | 40.59 | 18.71 | 40.81 | 18.93 | 61.20 | 51.20 | -20.40 | -32.28 |
| 3 | 1.34375 | 0.28 | 32.25 | 32.03 | 32.53 | 32.31 | 56.00 | 46.00 | -23.47 | -13.69 |
| 4 | 7.58203 | 0.52 | 41.86 | 35.51 | 42.38 | 36.03 | 60.00 | 50.00 | -17.62 | -13.97 |
| 5 | 13.80078 | 0.67 | 46.01 | 45.59 | 46.68 | 46.26 | 60.00 | 50.00 | -13.32 | -3.74 |
| 6 | 21.65234 | 0.81 | 48.89 | 47.00 | 49.70 | 47.81 | 60.00 | 50.00 | -10.30 | -2.19 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

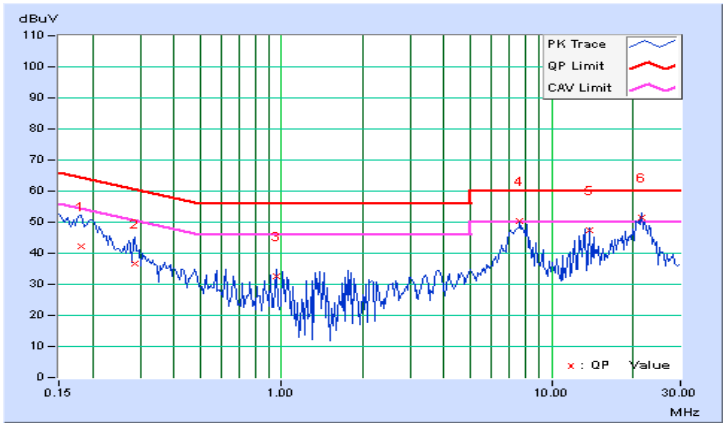


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 157 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | B4 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18125 | 0.19 | 41.94 | 16.64 | 42.13 | 16.83 | 64.43 | 54.43 | -22.29 | -37.59 |
| 2 | 0.28672 | 0.21 | 36.44 | 32.16 | 36.65 | 32.37 | 60.62 | 50.62 | -23.97 | -18.25 |
| 3 | 0.95469 | 0.28 | 32.33 | 31.85 | 32.61 | 32.13 | 56.00 | 46.00 | -23.39 | -13.87 |
| 4 | 7.60938 | 0.45 | 49.81 | 47.01 | 50.26 | 47.46 | 60.00 | 50.00 | -9.74 | -2.54 |
| 5 | 13.80078 | 0.58 | 46.84 | 45.42 | 47.42 | 46.00 | 60.00 | 50.00 | -12.58 | -4.00 |
| 6 | 21.64844 | 0.72 | 50.66 | 47.08 | 51.38 | 47.80 | 60.00 | 50.00 | -8.62 | -2.20 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

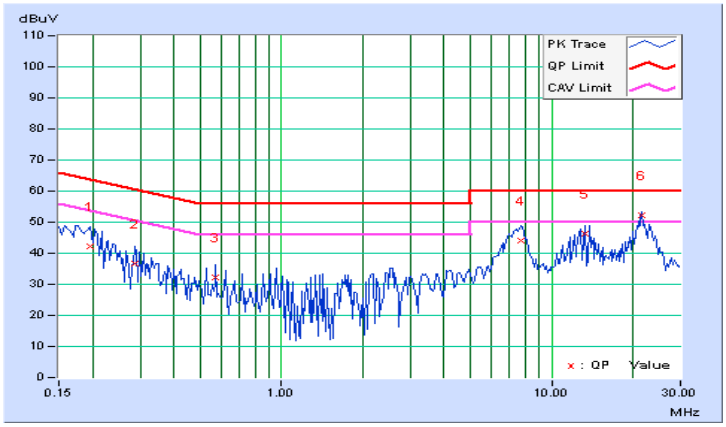


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 157 +<br>802.11a CH 157 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | B4 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.19 | 41.94 | 28.73 | 42.13 | 28.92 | 63.74 | 53.74 | -21.61 | -24.82 |
| 2 | 0.28672 | 0.22 | 36.52 | 32.16 | 36.74 | 32.38 | 60.62 | 50.62 | -23.87 | -18.23 |
| 3 | 0.57188 | 0.27 | 31.91 | 31.87 | 32.18 | 32.14 | 56.00 | 46.00 | -23.82 | -13.86 |
| 4 | 7.73566 | 0.52 | 43.54 | 34.73 | 44.06 | 35.25 | 60.00 | 50.00 | -15.94 | -14.75 |
| 5 | 13.32031 | 0.65 | 45.51 | 45.24 | 46.16 | 45.89 | 60.00 | 50.00 | -13.84 | -4.11 |
| 6 | 21.64844 | 0.81 | 51.52 | 47.03 | 52.33 | 47.84 | 60.00 | 50.00 | -7.67 | -2.16 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

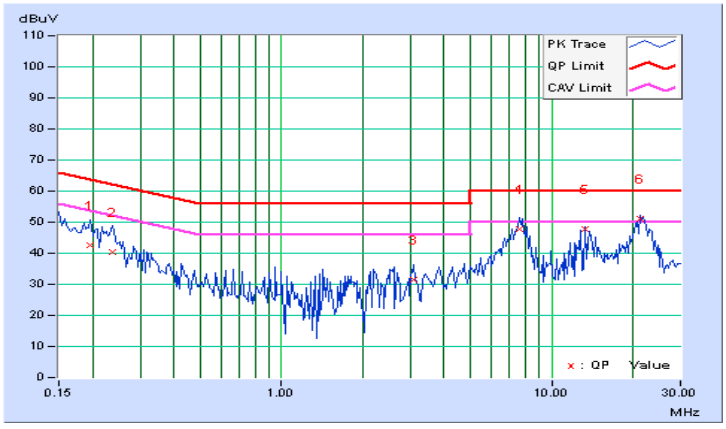


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 36 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | B5 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.20 | 42.26 | 26.70 | 42.46 | 26.90 | 63.74 | 53.74 | -21.28 | -26.84 |
| 2 | 0.23594 | 0.20 | 40.21 | 33.33 | 40.41 | 33.53 | 62.24 | 52.24 | -21.82 | -18.70 |
| 3 | 3.09375 | 0.36 | 31.15 | 28.18 | 31.51 | 28.54 | 56.00 | 46.00 | -24.49 | -17.46 |
| 4 | 7.61328 | 0.45 | 47.46 | 44.88 | 47.91 | 45.33 | 60.00 | 50.00 | -12.09 | -4.67 |
| 5 | 13.32031 | 0.57 | 47.18 | 45.86 | 47.75 | 46.43 | 60.00 | 50.00 | -12.25 | -3.57 |
| 6 | 21.16797 | 0.72 | 50.23 | 47.02 | 50.95 | 47.74 | 60.00 | 50.00 | -9.05 | -2.26 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

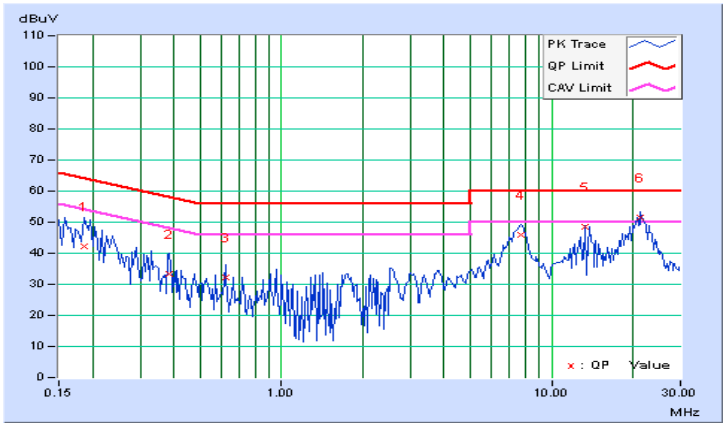


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 36 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | B5 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18516 | 0.19 | 41.86 | 29.44 | 42.05 | 29.63 | 64.25 | 54.25 | -22.20 | -24.62 |
| 2 | 0.38438 | 0.26 | 33.10 | 28.92 | 33.36 | 29.18 | 58.18 | 48.18 | -24.82 | -19.00 |
| 3 | 0.61875 | 0.27 | 31.96 | 30.34 | 32.23 | 30.61 | 56.00 | 46.00 | -23.77 | -15.39 |
| 4 | 7.72266 | 0.52 | 45.31 | 37.83 | 45.83 | 38.35 | 60.00 | 50.00 | -14.17 | -11.65 |
| 5 | 13.32031 | 0.65 | 47.75 | 45.66 | 48.40 | 46.31 | 60.00 | 50.00 | -11.60 | -3.69 |
| 6 | 21.17188 | 0.81 | 50.84 | 47.01 | 51.65 | 47.82 | 60.00 | 50.00 | -8.35 | -2.18 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

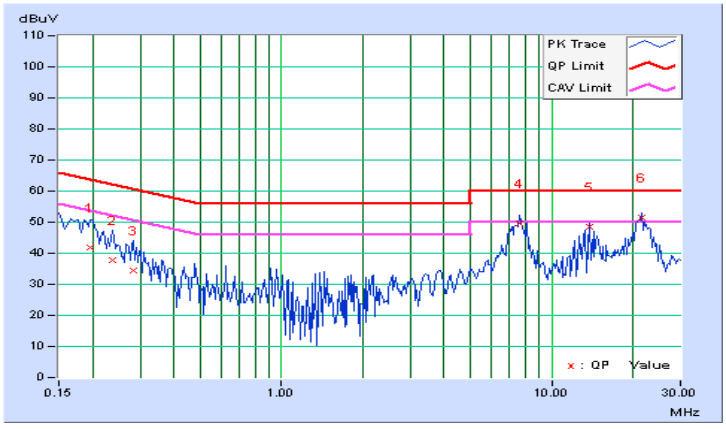


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 157 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 1 | **TEST MODE** | B6 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.19687 | 0.20 | 41.58 | 29.86 | 41.78 | 30.06 | 63.74 | 53.74 | -21.96 | -23.68 |
| 2 | 0.23594 | 0.20 | 37.59 | 30.85 | 37.79 | 31.05 | 62.24 | 52.24 | -24.44 | -21.18 |
| 3 | 0.28281 | 0.21 | 34.15 | 27.39 | 34.36 | 27.60 | 60.73 | 50.73 | -26.37 | -23.13 |
| 4 | 7.61328 | 0.45 | 49.08 | 46.05 | 49.53 | 46.50 | 60.00 | 50.00 | -10.47 | -3.50 |
| 5 | 13.80078 | 0.58 | 48.03 | 47.03 | 48.61 | 47.61 | 60.00 | 50.00 | -11.39 | -2.39 |
| 6 | 21.65234 | 0.72 | 50.91 | 47.02 | 51.63 | 47.74 | 60.00 | 50.00 | -8.37 | -2.26 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

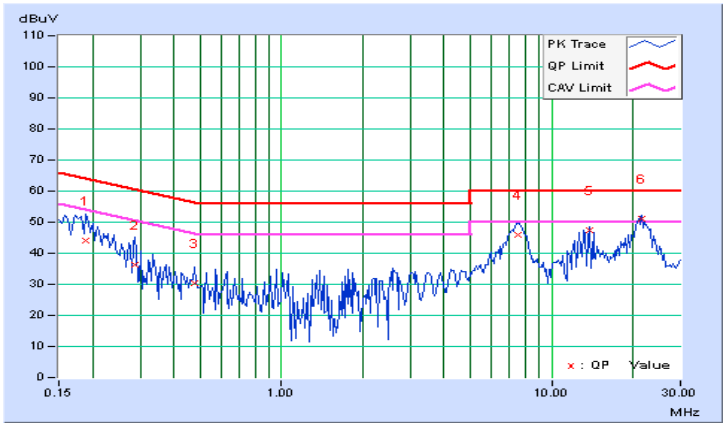


| | | | |
|---|---|---|---|
| **CHANNEL** | 802.11b CH 6 +<br>802.11a CH 36 +<br>802.11a CH 157 | **6dB BANDWIDTH** | 9kHz |
| **PHASE** | Line 2 | **TEST MODE** | B6 |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.18906 | 0.19 | 43.76 | 35.09 | 43.95 | 35.28 | 64.08 | 54.08 | -20.13 | -18.80 |
| 2 | 0.28672 | 0.22 | 36.07 | 32.04 | 36.29 | 32.26 | 60.62 | 50.62 | -24.32 | -18.35 |
| 3 | 0.47813 | 0.27 | 30.03 | 28.56 | 30.30 | 28.83 | 56.37 | 46.37 | -26.07 | -17.54 |
| 4 | 7.52734 | 0.52 | 45.52 | 42.31 | 46.04 | 42.83 | 60.00 | 50.00 | -13.96 | -7.17 |
| **5** | **13.80078** | **0.67** | **46.56** | **47.24** | **47.23** | **47.91** | **60.00** | **50.00** | **-12.77** | **-2.09** |
| 6 | 21.65234 | 0.81 | 50.18 | 46.88 | 50.99 | 47.69 | 60.00 | 50.00 | -9.01 | -2.31 |

**REMARKS:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



# 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

# 6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:


**Linko EMC/RF Lab**
Tel: 886-2-26052180
Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab**
Tel: 886-3-5935343
Fax: 886-3-5935342

**Hwa Ya EMC/RF/Safety/Telecom Lab**
Tel: 886-3-3183232
Fax: 886-3-3270892

**Email:** service.adt@tw.bureauveritas.com
**Web Site:** www.bureauveritas-adt.com


The address and road map of all our labs can be found in our web site also.

# 7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

**---END---**