



# FCC TEST REPORT

**REPORT NO.:** RF930920L09B

**MODEL NO.:** WL-565, WL-565B

**RECEIVED:** Apr. 01, 2005

**TESTED:** Apr. 08 ~ Apr. 21, 2005

**ISSUED:** Apr. 22, 2005

**APPLICANT:** 3Com Corporation

**ADDRESS:** 350 Campus Drive, Marlborough, MA 01752-3064 USA

**ISSUED BY:** Advance Data Technology Corporation

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang 244, Taipei Hsien, Taiwan, R.O.C.

**TEST LOCATION:** No. 19, Hwa Ya 2<sup>nd</sup> Rd., Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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## 1 CERTIFICATION

**PRODUCT :** Indoor 11g 54Mbps Building to Building Bridge,  
Outdoor 11g 54Mbps Building to Building Bridge

**MODEL NO. :** WL-565, WL-565B

**BRAND NAME :** 3COM

**APPLICANT :** 3Com Corporation

**TESTED :** Apr. 08 ~ Apr. 21, 2005

**TEST SAMPLE :** ENGINEERING SAMPLE

**STANDARDS :** FCC Part 15, Subpart C (Section 15.247),  
ANSI C63.4-2003

The above equipment (model: WL-565, WL-565B) has been tested by **Advance Data Technology Corporation**, 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 :** Candice Chen , **DATE:** Apr. 21, 2005  
( Candice Chen )

**TECHNICAL**  
**ACCEPTANCE :** Gary Chang , **DATE:** Apr. 21, 2005  
Responsible for RF ( Gary Chang )

**APPROVED BY :** Cody Chang , **DATE:** Apr. 21, 2005  
( Cody Chang,  
Deputy Manager )

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| <b>APPLIED STANDARD: FCC Part 15, Subpart C</b> |   |               |  |
|---|---|---------------|--|
| <b>Standard Section</b>                         | <b>Test Type and Limit</b>  | <b>Result</b> | <b>REMARK</b>  |
| 15.207  | AC Power Conducted Emission   | PASS          | Meet the requirement of limit.<br>Minimum passing margin is -17.28dB at 0.236MHz |
| 15.247(a)(2)                                    | Spectrum Bandwidth of a Direct Sequence Spread Spectrum System<br>Limit: min. 500kHz    | PASS          | Meet the requirement of limit.   |
| 15.247(b)                                       | Maximum Peak Output Power<br>Limit: max. 30dBm  | PASS          | Meet the requirement of limit.   |
| 15.247(d)                                       | Transmitter Radiated Emissions<br>Limit: Table 15.209                                   | PASS          | Meet the requirement of limit.<br>Minimum passing margin is -1.35dB at 94.15MHz  |
| 15.247(e)                                       | Power Spectral Density<br>Limit: max. 8dBm  | PASS          | Meet the requirement of limit.   |
| 15.247(d)                                       | Band Edge Measurement<br>Limit: 20 dB less than the peak value of fundamental frequency | PASS          | Meet the requirement of limit.   |

## 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:

| Measurement         | Frequency       | Uncertainty |
|---------------------|-----------------|-------------|
| Conducted emissions | 9kHz~30MHz      | 2.44 dB     |
| Radiated emissions  | 30MHz ~ 200MHz  | 3.73 dB     |
|                     | 200MHz ~1000MHz | 3.74 dB     |
|                     | 1GHz ~ 18GHz    | 2.20 dB     |
|                     | 18GHz ~ 40GHz   | 1.88 dB     |



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                           |  |
|---------------------------|--|
| <b>PRODUCT</b>            | Indoor 11g 54Mbps Building to Building Bridge,<br>Outdoor 11g 54Mbps Building to Building Bridge |
| <b>MODEL NO.</b>          | WL-565, WL-565B  |
| <b>POWER SUPPLY</b>       | 48Vdc from POE   |
| <b>MODULATION TYPE</b>    | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM                                  |
| <b>RADIO TECHNOLOGY</b>   | DSSS, OFDM   |
| <b>TRANSFER RATE</b>      | 802.11b: 11/5.5/2/1Mbps<br>802.11g: 54/48/36/24/18/12/9/6Mbps                                    |
| <b>FREQUENCY RANGE</b>    | 2412MHz ~ 2462MHz  |
| <b>NUMBER OF CHANNEL</b>  | 11   |
| <b>OUTPUT POWER</b>       | 50.816mW   |
| <b>ANTENNA TYPE</b>       | Please refer to the <b>note 5</b> as below   |
| <b>DATA CABLE</b>         | NA   |
| <b>I/O PORTS</b>          | RJ45   |
| <b>ASSOCIATED DEVICES</b> | NA   |

**NOTE:**

1. This report is prepared for FCC Class II permissive change. The difference compared with the original design is adding three antennas type to this EUT for the test.
2. The EUT was tested with the following two POE (Power over Ethernet):

**POE 1:**

|                    |  |
|--------------------|--|
| <b>BRAND:</b>      | 3 COM                                  |
| <b>MODEL :</b>     | 61-0107-000                            |
| <b>INPUT :</b>     | 100-240Vac, 50/60Hz, 500mA             |
| <b>OUTPUT :</b>    | 48Vdc, 400mA                           |
| <b>POWER LINE:</b> | AC 1.8m nonshielded cable without core |

**POE 2:**

|                    |  |
|--------------------|--|
| <b>BRAND:</b>      | 3COM                                   |
| <b>MODEL :</b>     | PW130RA4800N02                         |
| <b>INPUT :</b>     | 100-250Vac, 50/60Hz, 500mA             |
| <b>OUTPUT :</b>    | 48Vdc, 420mA                           |
| <b>POWER LINE:</b> | AC 1.8m nonshielded cable without core |

**Note:** There are two test data provided in Conducted Emission and Radiation Emission below 1GHz test.



- 3. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.
- 4. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.
- 5. There are 10 antennas provided to this EUT. The information about those antennas as below table:

| Ant. Type  | Ant. Gain | Ant. Connector (model)    |
|--|-----------|---------------------------|
| Hallway Bidirectional Ant. (Patch Ant.)          | 4.0dBi    | N-Type (3CWE497)          |
| Ceiling Mount Omnidirectional Ant. (Dipole Ant.) | 2.5dBi    | N-Type (3CWE492)          |
| Omnidirectional Ant. (Dipole Ant.)               | 4.0dBi    | N-Type (3CWE490)          |
| Omnidirectional Ant. (Dipole Ant.)               | 8.0dBi    | N-Type (3CWE491)          |
| Sector-Panel Ant. (Patch Ant.)                   | 8.0dBi    | N-Type (3CWE498)          |
| Sector-Panel Ant. (Patch Ant.)                   | 13.0dBi   | N-Type (3CWE495)          |
| Sector-Panel Ant. (Patch Ant.)                   | 18.0dBi   | N-Type (3CWE496)          |
| <b>High gain omni antenna</b>                    | 8.0dBi    | N Femal (3CWE591) (Z1996) |
| <b>Medium gain panel antenna</b>                 | 8.0dBi    | N Femal (3CWE598) (Z1997) |
| <b>High gain panel antenna</b>                   | 18.0dBi   | N Femal (3CWE596)         |

- 6. There are two product names and model names provided to this EUT. Please refer to the table as below for EUT's information:

| Product Name                                   | Model Name |
|--|------------|
| Outdoor 11g 54Mbps Building to Building Bridge | WL-565B    |
| Indoor 11g 54Mbps Building to Building Bridge  | WL-565     |

- 7. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



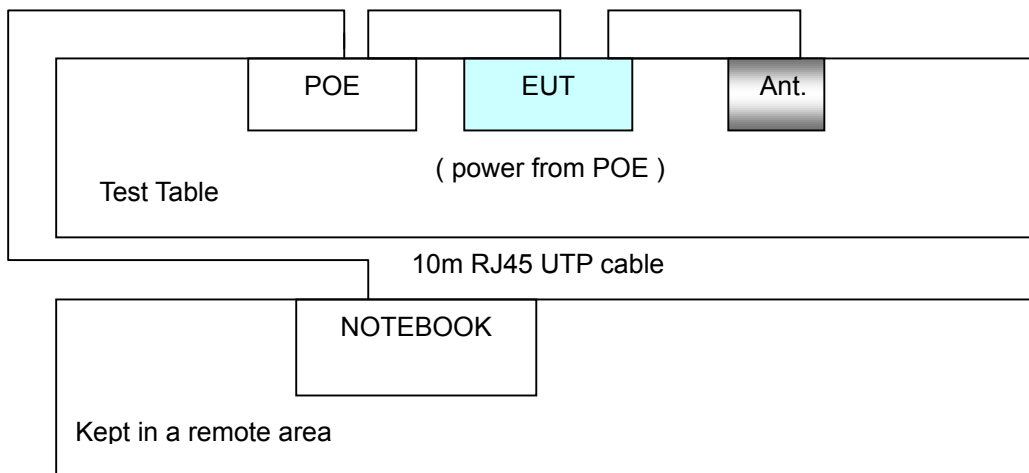
### 3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

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

#### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

For Test Mode 1, 2, 3







3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

| EUT configure mode | Applicable to |       |        |        | Description   |
|--------------------|---------------|-------|--------|--------|---|
|                    | PLC           | RE<1G | RE≥1G  | APCM   |   |
| 1                  | Note 1        | x     | Note 2 | Note 3 | Model No.: WL-565, Antenna type: High gain omni antenna (8.0dBi)    |
| 2                  | Note 1        | x     | Note 2 | Note 3 | Model No.: WL-565, Antenna type: Medium gain panel antenna (8.0dBi) |
| 3                  | Note 1        | x     | Note 2 | Note 3 | Model No.: WL-565, Antenna type: High gain panel antenna (18.0dBi)  |

Where PLC: Power Line Conducted Emission RE<1G RE: Radiated Emission below 1GHz  
 RE≥1G: Radiated Emission above 1GHz APCM: Antenna Port Conducted Measurement  
 Note 1: Pre-scan shown antenna has no effect for PLC test and only worst case recorded in the report.  
 Note 2: Pre-scan shown POE has no effect for radiated emission about 1GHz and only worst case recorded in the report.  
 Note 3: Conducted RF measurement in independent of antennas and POE.

**Power Line 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.

| Mode | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) | USE POE |
|------|-------------------|----------------|-----------------------|-----------------|------------------|---------|
| 1    | 1 to 11           | 11             | OFDM                  | BPSK            | 6                | POE 1   |
| 1    | 1 to 11           | 11             | OFDM                  | BPSK            | 6                | POE 2   |

**Radiated Emission Test (Below 1 GHz):**

- 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.

| Mode    | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) | USE POE |
|---------|-------------------|----------------|-----------------------|-----------------|------------------|---------|
| 1, 2, 3 | 1 to 11           | 11             | OFDM                  | BPSK            | 6                | POE 1   |
| 1, 2, 3 | 1 to 11           | 11             | OFDM                  | BPSK            | 6                | POE 2   |

**Radiated Emission Test (Above 1 GHz):**

- 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.

| Mode    | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|---------|-------------------|----------------|-----------------------|-----------------|------------------|
| 1, 2, 3 | 1 to 11           | 1, 6, 11       | DSSS                  | CCK             | 11               |
| 1, 2, 3 | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6                |

**Bandedge Measurement:**

- 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.

| Mode | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|------|-------------------|----------------|-----------------------|-----------------|------------------|
| -    | 1 to 11           | 1, 11          | DSSS                  | CCK             | 11               |
| -    | 1 to 11           | 1, 11          | OFDM                  | BPSK            | 6                |



### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Indoor 11g 54Mbps Building to Building Bridge, Outdoor 11g 54Mbps Building to Building Bridge. According to the specifications of the manufacturer, it must complies with the requirements of the following standards:

#### **FCC Part 15, Subpart C. (15.247)**

#### **ANSI C63.4- 2003**

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

### 3.4 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   | NOTEBOOK COMPUTER | DELL  | PP05L     | 12130898320 | E2K24CLNS |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1   | NA  |

**NOTE:**

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 act as a communication partner to transfer data.



## 4 TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB $\mu$ V) |          |
|-----------------------------|------------------------------|----------|
|                             | 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.

#### 4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER       | MODEL NO.   | SERIAL NO.     | CALIBRATED UNTIL |
|----------------------------------|-------------|----------------|------------------|
| Test Receiver<br>ROHDE & SCHWARZ | ESCS30      | 100291         | Nov. 16, 2005    |
| RF signal cable<br>Woken         | 5D-FB       | Cable-HYC01-01 | Jan. 09, 2006    |
| LISN<br>ROHDE & SCHWARZ          | ESH3-Z5     | 100312         | Feb. 15, 2006    |
| LISN<br>ROHDE & SCHWARZ          | ESH2-Z5     | 100104         | Feb. 15, 2006    |
| Software<br>ADT                  | ADT_Cond_V3 | 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 1.
  3. The VCCI Site Registration No. is C-2040.



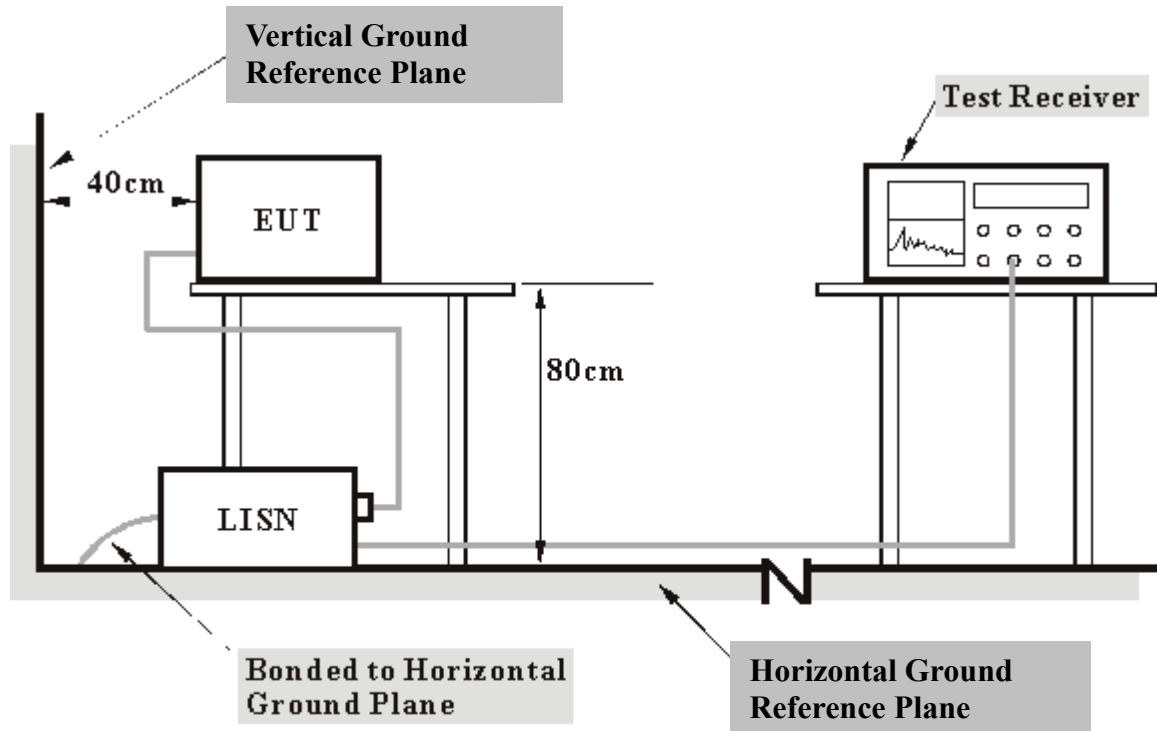
#### 4.1.3 TEST PROCEDURES

- 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 150 kHz to 30 MHz was searched. Emission levels (Limit -20dB) was not recorded.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared another Notebook system to act as a communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via “RJ45” cable and run a Test program (provided by manufacturer) to enable EUT under transmission/ Receiving condition continuously at specific channels frequency.
- d. The communication partner sent data to EUT by command "PING".



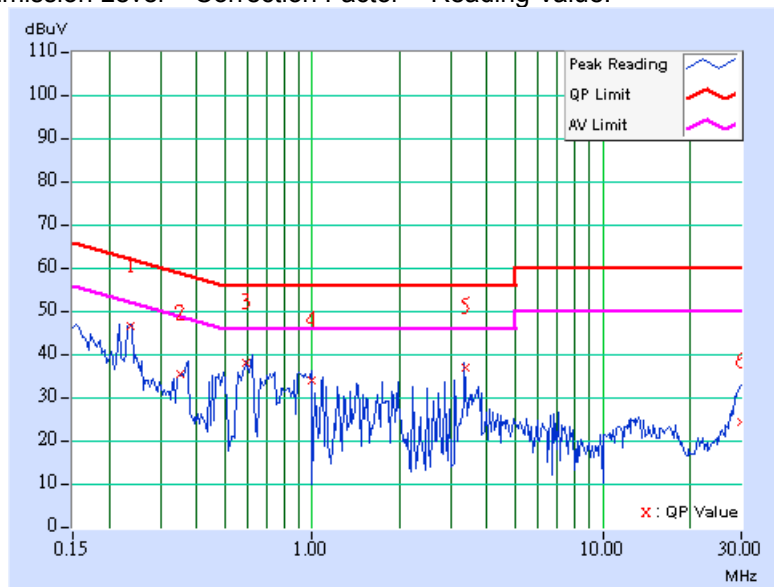
4.1.7 TEST RESULTS

**Conducted Worst-Case Data with POE 1**

|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 1                  |
| <b>CHANNEL</b>         | Channel 1                                     | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | 61-0107-000                                   | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] |       | Emission Level [dB (uV)] |       | Limit [dB (uV)] |       | Margin (dB) |       |
|----|-------------|-------------------|-------------------------|-------|--------------------------|-------|-----------------|-------|-------------|-------|
|    |             |                   | Q.P.                    | AV.   | Q.P.                     | AV.   | Q.P.            | AV.   | Q.P.        | AV.   |
|    |             |                   | 1                       | 0.236 | 0.11                     | 44.85 | -               | 44.96 | -           | 62.24 |
| 2  | 0.352       | 0.11              | 33.61                   | -     | 33.72                    | -     | 58.91           | 48.91 | -25.19      | -     |
| 3  | 0.591       | 0.15              | 36.37                   | -     | 36.52                    | -     | 56.00           | 46.00 | -19.48      | -     |
| 4  | 1.000       | 0.24              | 32.29                   | -     | 32.53                    | -     | 56.00           | 46.00 | -23.47      | -     |
| 5  | 3.365       | 0.35              | 34.97                   | -     | 35.32                    | -     | 56.00           | 46.00 | -20.68      | -     |
| 6  | 29.910      | 1.95              | 22.40                   | -     | 24.35                    | -     | 60.00           | 50.00 | -35.65      | -     |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other level frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

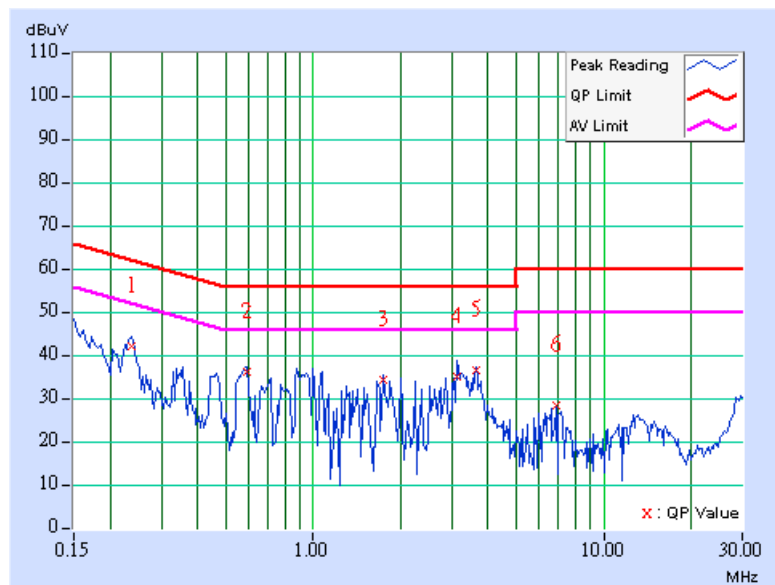




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 2                  |
| <b>CHANNEL</b>         | Channel 1                                     | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | 61-0107-000                                   | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] |       | Emission Level [dB (uV)] |       | Limit [dB (uV)] |       | Margin (dB) |       |
|----|-------------|-------------------|-------------------------|-------|--------------------------|-------|-----------------|-------|-------------|-------|
|    |             |                   | Q.P.                    | AV.   | Q.P.                     | AV.   | Q.P.            | AV.   | Q.P.        | AV.   |
|    |             |                   | 1                       | 0.236 | 0.11                     | 41.68 | -               | 41.79 | -           | 62.24 |
| 2  | 0.590       | 0.15              | 35.70                   | -     | 35.85                    | -     | 56.00           | 46.00 | -20.15      | -     |
| 3  | 1.750       | 0.26              | 34.01                   | -     | 34.27                    | -     | 56.00           | 46.00 | -21.73      | -     |
| 4  | 3.125       | 0.33              | 34.70                   | -     | 35.03                    | -     | 56.00           | 46.00 | -20.97      | -     |
| 5  | 3.627       | 0.37              | 36.15                   | -     | 36.52                    | -     | 56.00           | 46.00 | -19.48      | -     |
| 6  | 6.884       | 0.41              | 28.25                   | -     | 28.66                    | -     | 60.00           | 50.00 | -31.34      | -     |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



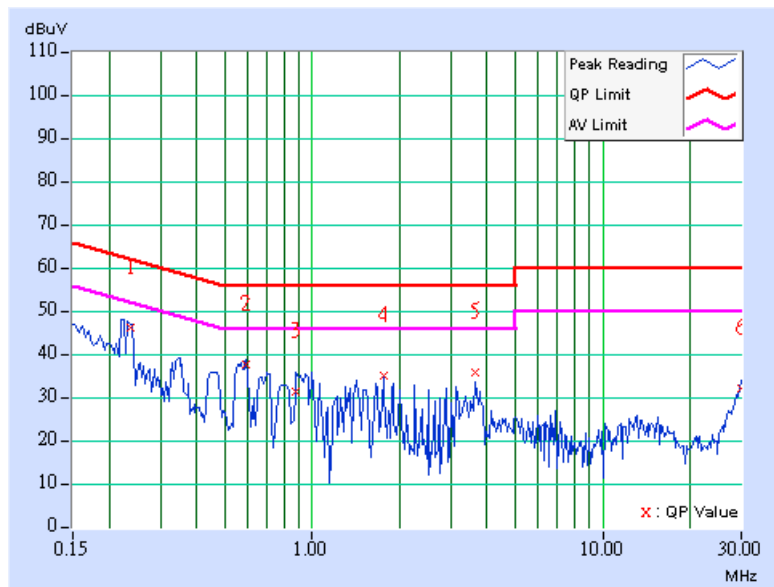




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>Model</b>           | WL-565  | <b>PHASE</b>                    | Line 1                  |
| <b>CHANNEL</b>         | Channel 6                                     | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | 61-0107-000                                   | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.236          | 0.11                    | 44.24         | -   | 44.35          | -   | 62.25     | 52.25 | -17.90 | -   |
| 2  | 0.595          | 0.15                    | 35.84         | -   | 35.99          | -   | 56.00     | 46.00 | -20.01 | -   |
| 3  | 0.880          | 0.21                    | 29.57         | -   | 29.78          | -   | 56.00     | 46.00 | -26.22 | -   |
| 4  | 1.758          | 0.26                    | 33.39         | -   | 33.65          | -   | 56.00     | 46.00 | -22.35 | -   |
| 5  | 3.637          | 0.37                    | 33.88         | -   | 34.25          | -   | 56.00     | 46.00 | -21.75 | -   |
| 6  | 29.962         | 1.96                    | 30.23         | -   | 32.19          | -   | 60.00     | 50.00 | -27.81 | -   |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

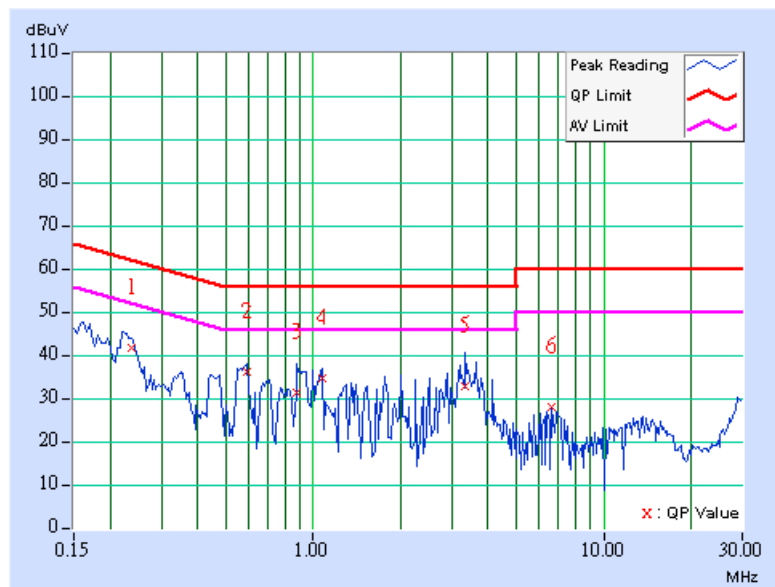




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 2                  |
| <b>CHANNEL</b>         | Channel 6                                     | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | 61-0107-000                                   | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] |       | Emission Level [dB (uV)] |       | Limit [dB (uV)] |       | Margin (dB) |       |
|----|-------------|-------------------|-------------------------|-------|--------------------------|-------|-----------------|-------|-------------|-------|
|    |             |                   | Q.P.                    | AV.   | Q.P.                     | AV.   | Q.P.            | AV.   | Q.P.        | AV.   |
|    |             |                   | 1                       | 0.237 | 0.11                     | 41.30 | -               | 41.41 | -           | 62.21 |
| 2  | 0.591       | 0.15              | 35.96                   | -     | 36.11                    | -     | 56.00           | 46.00 | -19.89      | -     |
| 3  | 0.880       | 0.21              | 31.25                   | -     | 31.46                    | -     | 56.00           | 46.00 | -24.54      | -     |
| 4  | 1.070       | 0.24              | 34.24                   | -     | 34.48                    | -     | 56.00           | 46.00 | -21.52      | -     |
| 5  | 3.336       | 0.35              | 32.69                   | -     | 33.04                    | -     | 56.00           | 46.00 | -22.96      | -     |
| 6  | 6.655       | 0.41              | 27.64                   | -     | 28.05                    | -     | 60.00           | 50.00 | -31.95      | -     |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

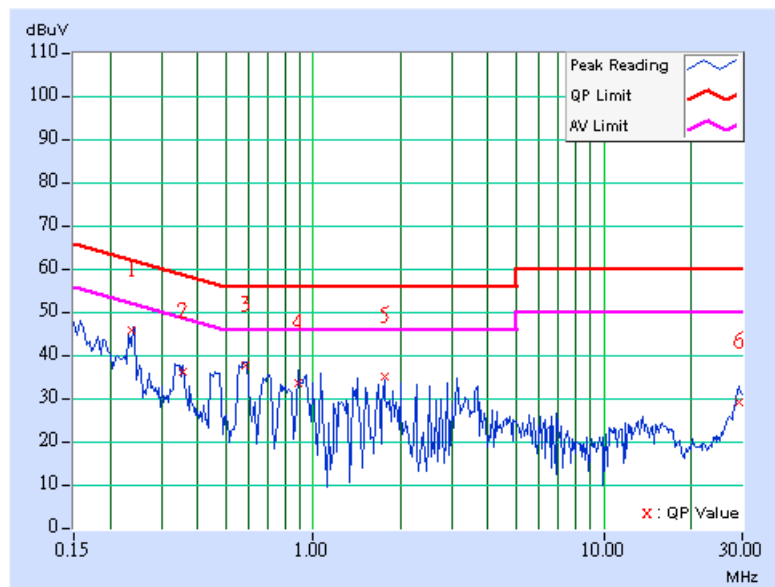




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 1                  |
| <b>CHANNEL</b>         | Channel 11                                    | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | 61-0107-000                                   | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.236          | 0.11                    | 44.16         | -   | 44.27          | -   | 62.24     | 52.24 | -17.97 | -   |
| 2  | 0.357          | 0.11                    | 34.57         | -   | 34.68          | -   | 58.80     | 48.80 | -24.12 | -   |
| 3  | 0.587          | 0.15                    | 35.84         | -   | 35.99          | -   | 56.00     | 46.00 | -20.01 | -   |
| 4  | 0.884          | 0.21                    | 31.95         | -   | 32.16          | -   | 56.00     | 46.00 | -23.84 | -   |
| 5  | 1.762          | 0.26                    | 33.45         | -   | 33.71          | -   | 56.00     | 46.00 | -22.29 | -   |
| 6  | 29.143         | 1.86                    | 27.35         | -   | 29.21          | -   | 60.00     | 50.00 | -30.79 | -   |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

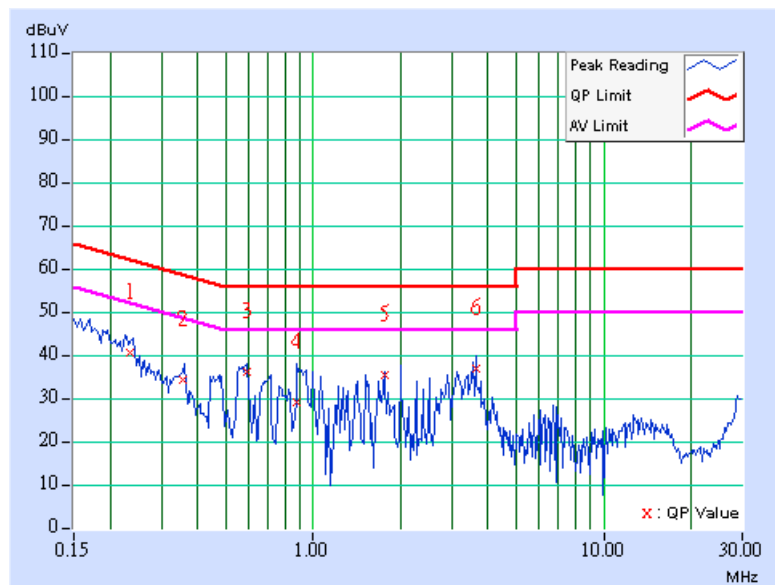




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 2                  |
| <b>CHANNEL</b>         | Channel 11                                    | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | 61-0107-000                                   | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] |       | Emission Level [dB (uV)] |       | Limit [dB (uV)] |       | Margin (dB) |       |
|----|-------------|-------------------|-------------------------|-------|--------------------------|-------|-----------------|-------|-------------|-------|
|    |             |                   | Q.P.                    | AV.   | Q.P.                     | AV.   | Q.P.            | AV.   | Q.P.        | AV.   |
|    |             |                   | 1                       | 0.234 | 0.11                     | 40.29 | -               | 40.40 | -           | 62.29 |
| 2  | 0.356       | 0.11              | 34.01                   | -     | 34.12                    | -     | 58.82           | 48.82 | -24.70      | -     |
| 3  | 0.591       | 0.15              | 36.00                   | -     | 36.15                    | -     | 56.00           | 46.00 | -19.85      | -     |
| 4  | 0.877       | 0.21              | 28.97                   | -     | 29.18                    | -     | 56.00           | 46.00 | -26.82      | -     |
| 5  | 1.762       | 0.26              | 35.10                   | -     | 35.36                    | -     | 56.00           | 46.00 | -20.64      | -     |
| 6  | 3.645       | 0.37              | 36.53                   | -     | 36.90                    | -     | 56.00           | 46.00 | -19.10      | -     |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



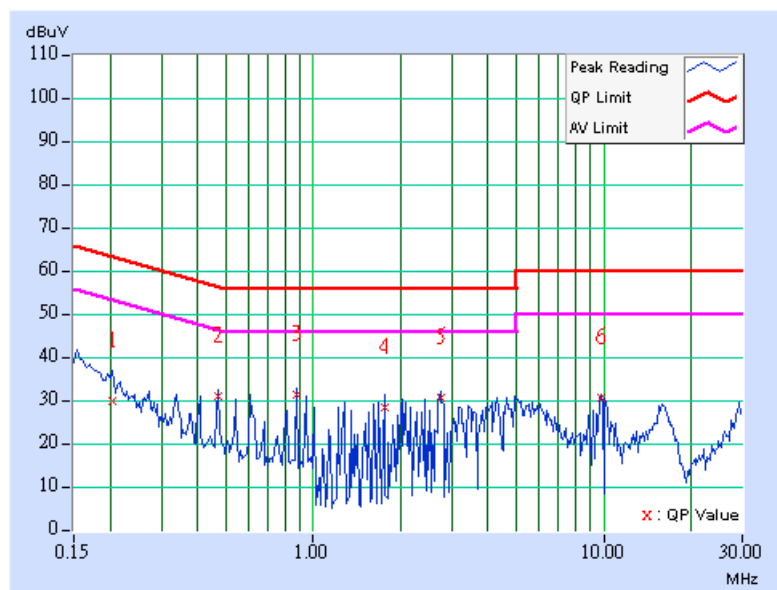


**Conducted Worst-Case Data with POE 2**

|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 1                  |
| <b>CHANNEL</b>         | Channel 1                                     | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | PW130RA4800N02                                | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.205          | 0.11                    | 29.53         | -   | 29.64          | -   | 63.42     | 53.42 | -33.78 | -   |
| 2  | 0.470          | 0.13                    | 30.60         | -   | 30.73          | -   | 56.51     | 46.51 | -25.78 | -   |
| 3  | 0.877          | 0.21                    | 30.93         | -   | 31.14          | -   | 56.00     | 46.00 | -24.86 | -   |
| 4  | 1.754          | 0.26                    | 27.89         | -   | 28.15          | -   | 56.00     | 46.00 | -27.85 | -   |
| 5  | 2.762          | 0.31                    | 30.35         | -   | 30.66          | -   | 56.00     | 46.00 | -25.34 | -   |
| 6  | 9.802          | 0.54                    | 30.24         | -   | 30.78          | -   | 60.00     | 50.00 | -29.22 | -   |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

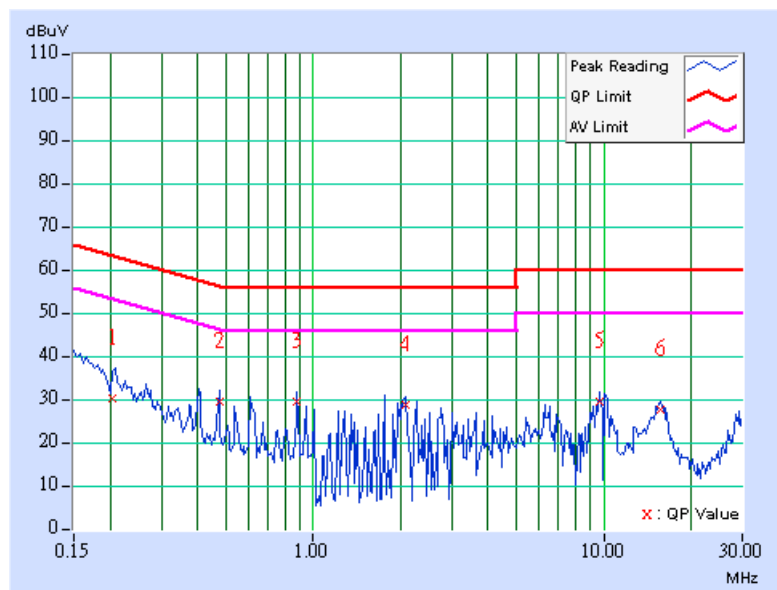




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 2                  |
| <b>CHANNEL</b>         | Channel 1                                     | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | PW130RA4800N02                                | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] |       | Emission Level [dB (uV)] |       | Limit [dB (uV)] |       | Margin (dB) |       |
|----|-------------|-------------------|-------------------------|-------|--------------------------|-------|-----------------|-------|-------------|-------|
|    |             |                   | Q.P.                    | AV.   | Q.P.                     | AV.   | Q.P.            | AV.   | Q.P.        | AV.   |
|    |             |                   | 1                       | 0.202 | 0.11                     | 29.93 | -               | 30.04 | -           | 63.52 |
| 2  | 0.474       | 0.13              | 29.26                   | -     | 29.39                    | -     | 56.44           | 46.44 | -27.05      | -     |
| 3  | 0.877       | 0.21              | 29.29                   | -     | 29.50                    | -     | 56.00           | 46.00 | -26.50      | -     |
| 4  | 2.090       | 0.27              | 28.53                   | -     | 28.80                    | -     | 56.00           | 46.00 | -27.20      | -     |
| 5  | 9.680       | 0.44              | 29.15                   | -     | 29.59                    | -     | 60.00           | 50.00 | -30.41      | -     |
| 6  | 15.723      | 0.49              | 27.38                   | -     | 27.87                    | -     | 60.00           | 50.00 | -32.13      | -     |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

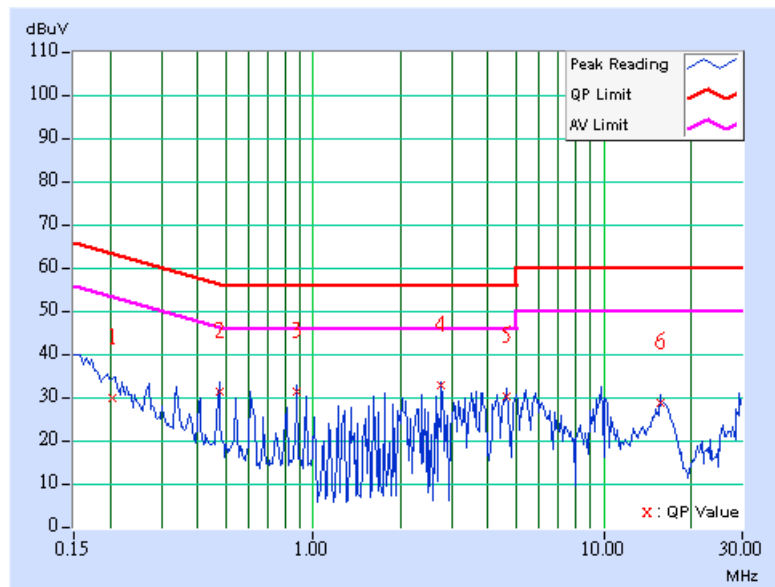




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 1                  |
| <b>CHANNEL</b>         | Channel 6                                     | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | PW130RA4800N02                                | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.204          | 0.11                    | 29.37         | -   | 29.48          | -   | 63.45     | 53.45 | -33.97 | -   |
| 2  | 0.474          | 0.13                    | 30.84         | -   | 30.97          | -   | 56.44     | 46.44 | -25.47 | -   |
| 3  | 0.877          | 0.21                    | 30.69         | -   | 30.90          | -   | 56.00     | 46.00 | -25.10 | -   |
| 4  | 2.770          | 0.31                    | 32.31         | -   | 32.62          | -   | 56.00     | 46.00 | -23.38 | -   |
| 5  | 4.656          | 0.41                    | 29.79         | -   | 30.20          | -   | 56.00     | 46.00 | -25.80 | -   |
| 6  | 15.594         | 0.61                    | 28.35         | -   | 28.96          | -   | 60.00     | 50.00 | -31.04 | -   |

- REMARKS:**
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  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

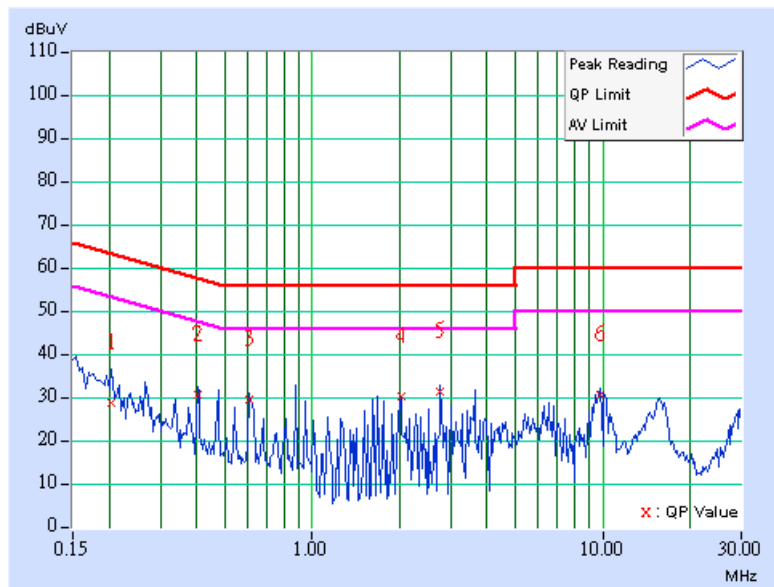




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 2                  |
| <b>CHANNEL</b>         | Channel 6                                     | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | PW130RA4800N02                                | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.205          | 0.11                    | 28.29         | -   | 28.40          | -   | 63.42     | 53.42 | -35.02 | -   |
| 2  | 0.404          | 0.11                    | 30.30         | -   | 30.41          | -   | 57.77     | 47.77 | -27.36 | -   |
| 3  | 0.607          | 0.15                    | 29.05         | -   | 29.20          | -   | 56.00     | 46.00 | -26.80 | -   |
| 4  | 2.023          | 0.26                    | 29.82         | -   | 30.08          | -   | 56.00     | 46.00 | -25.92 | -   |
| 5  | 2.766          | 0.31                    | 30.99         | -   | 31.30          | -   | 56.00     | 46.00 | -24.70 | -   |
| 6  | 9.809          | 0.44                    | 30.42         | -   | 30.86          | -   | 60.00     | 50.00 | -29.14 | -   |

- REMARKS:**
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  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



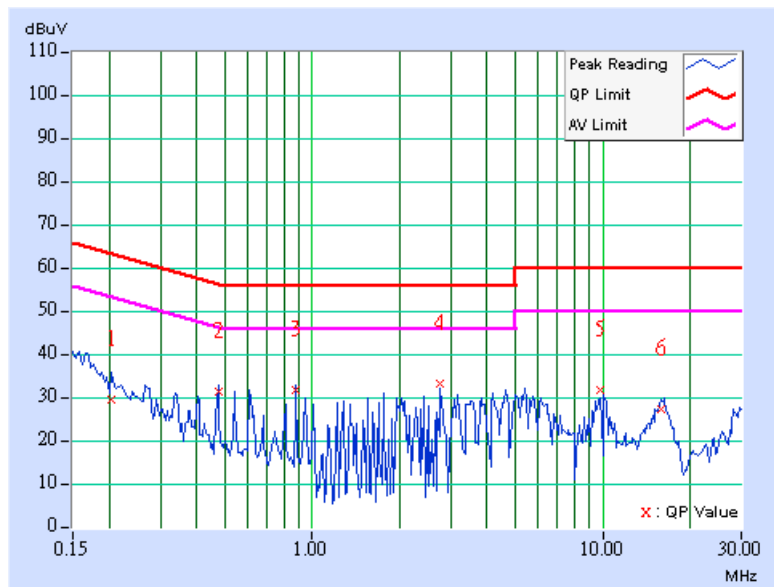




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 1                  |
| <b>CHANNEL</b>         | Channel 11                                    | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | PW130RA4800N02                                | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.205          | 0.11                    | 29.17         | -   | 29.28          | -   | 63.42     | 53.42 | -34.14 | -   |
| 2  | 0.474          | 0.13                    | 31.00         | -   | 31.13          | -   | 56.44     | 46.44 | -25.31 | -   |
| 3  | 0.880          | 0.21                    | 31.15         | -   | 31.36          | -   | 56.00     | 46.00 | -24.64 | -   |
| 4  | 2.770          | 0.31                    | 32.69         | -   | 33.00          | -   | 56.00     | 46.00 | -23.00 | -   |
| 5  | 9.813          | 0.54                    | 31.14         | -   | 31.68          | -   | 60.00     | 50.00 | -28.32 | -   |
| 6  | 15.805         | 0.63                    | 26.86         | -   | 27.49          | -   | 60.00     | 50.00 | -32.51 | -   |

- REMARKS:**
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  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.

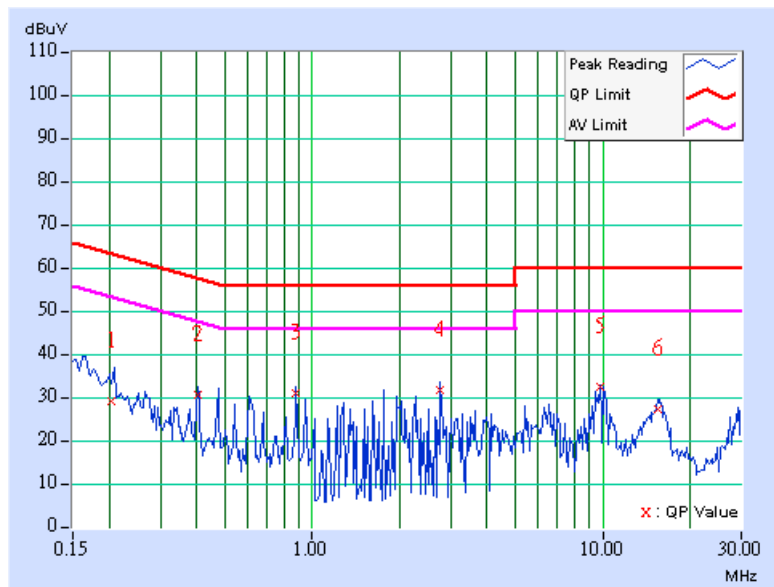




|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                         |
| <b>MODEL</b>           | WL-565  | <b>PHASE</b>                    | Line 2                  |
| <b>CHANNEL</b>         | Channel 11                                    | <b>6dB BANDWIDTH</b>            | 9 kHz                   |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 60%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>POE (MODEL)</b>     | PW130RA4800N02                                | <b>TESTED BY</b>                | Match Tsui              |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.202          | 0.11                    | 28.75         | -   | 28.86          | -   | 63.51     | 53.51 | -34.65 | -   |
| 2  | 0.404          | 0.11                    | 30.36         | -   | 30.47          | -   | 57.77     | 47.77 | -27.30 | -   |
| 3  | 0.880          | 0.21                    | 30.65         | -   | 30.86          | -   | 56.00     | 46.00 | -25.14 | -   |
| 4  | 2.770          | 0.31                    | 31.51         | -   | 31.82          | -   | 56.00     | 46.00 | -24.18 | -   |
| 5  | 9.813          | 0.44                    | 31.94         | -   | 32.38          | -   | 60.00     | 50.00 | -27.62 | -   |
| 6  | 15.469         | 0.48                    | 26.96         | -   | 27.44          | -   | 60.00     | 50.00 | -32.56 | -   |

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.





## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

| Frequencies<br>(MHz) | Field strength<br>(microvolts/meter) | Measurement distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009-0.490          | 2400/F(kHz)                          | 300                              |
| 0.490-1.705          | 24000/F(kHz)                         | 30                               |
| 1.705-30.0           | 30                                   | 30                               |
| 30-88                | 100                                  | 3                                |
| 88-216               | 150                                  | 3                                |
| 216-960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), 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.



## 4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER           | MODEL NO.          | SERIAL NO.   | CALIBRATED UNTIL |
|--------------------------------------|--------------------|--------------|------------------|
| Test Receiver<br>ROHDE & SCHWARZ     | ESIB7              | 100188       | Dec. 19, 2005    |
| Spectrum Analyzer<br>ROHDE & SCHWARZ | FSP40              | 100039       | Nov. 21, 2005    |
| BILOG Antenna<br>SCHWARZBECK         | VULB9168           | 9168-157     | Jan. 22, 2006    |
| HORN Antenna<br>SCHWARZBECK          | BBHA 9120 D        | 9120D-407    | Jan. 16, 2006    |
| HORN Antenna<br>SCHWARZBECK          | BBHA 9170          | BBHA 9170241 | Feb. 23, 2006    |
| Preamplifier<br>Agilent              | 8449B              | 3008A01961   | Nov. 09, 2005    |
| Preamplifier<br>Agilent              | 8447D              | 2944A10629   | Nov. 09, 2005    |
| RF signal cable<br>HUBER+SUHNER      | SUCOFLEX 104       | 218182/4     | Feb. 17, 2006    |
| RF signal cable<br>HUBER+SUHNER      | SUCOFLEX 104       | 218194/4     | Feb. 17, 2006    |
| Software<br>ADT.                     | ADT_Radiated_V5.14 | NA           | NA               |
| Antenna Tower<br>ADT.                | AT100              | AT93021702   | NA               |
| Turn Table<br>ADT.                   | TT100.             | TT93021702   | NA               |
| Controller<br>ADT.                   | SC100.             | SC93021702   | 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 Chamber 1.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC4924-2.



#### 4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

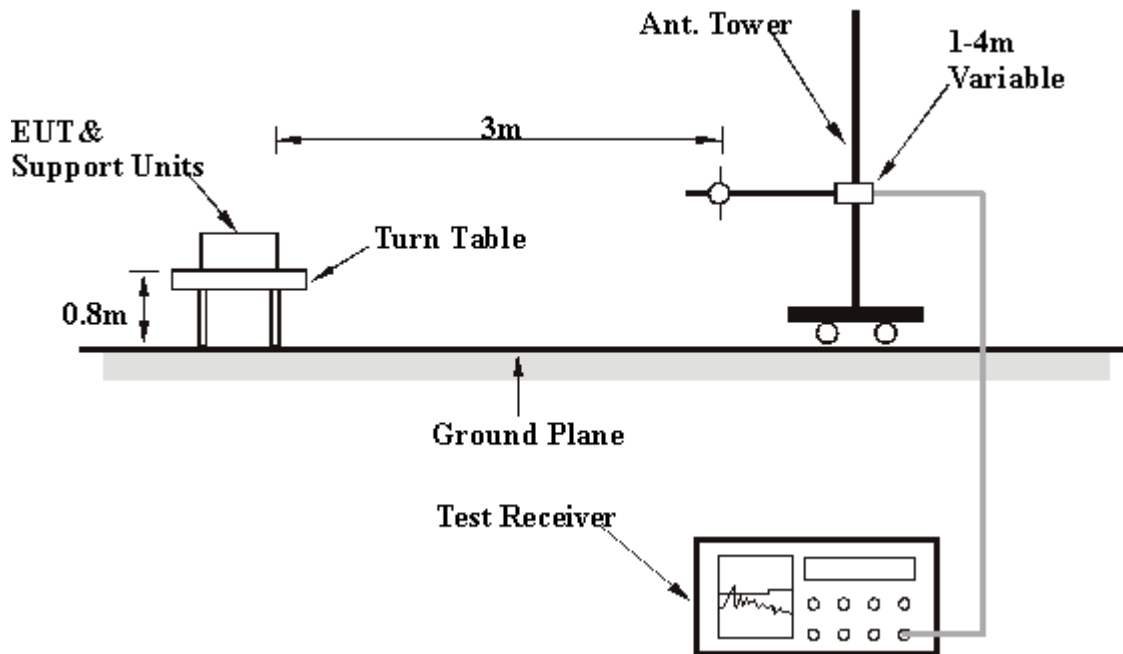
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

## 4.2.7 TEST RESULTS

**Below 1GHz Worst-Case Data with POE (Model): 61-0107-000**

|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 1  | <b>TESTED BY</b>                | Match Tsui                 |

**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   | 49.44       | 36.91 QP                | 40.00          | -3.09       | 2.00 H             | 241                  | 21.83            | 15.07                    |
| 2   | 82.48       | 37.02 QP                | 40.00          | -2.98       | 2.00 H             | 205                  | 26.67            | 10.35                    |
| 3   | 123.31      | 37.55 QP                | 43.50          | -5.95       | 2.00 H             | 106                  | 23.96            | 13.60                    |
| 4   | 208.84      | 34.33 QP                | 43.50          | -9.17       | 1.00 H             | 190                  | 22.27            | 12.05                    |
| 5   | 263.27      | 44.12 QP                | 46.00          | -1.88       | 1.50 H             | 151                  | 30.21            | 13.91                    |
| 6   | 296.31      | 34.26 QP                | 46.00          | -11.74      | 1.00 H             | 175                  | 19.30            | 14.96                    |
| 7   | 374.07      | 37.01 QP                | 46.00          | -8.99       | 1.00 H             | 280                  | 20.34            | 16.68                    |
| 8   | 500.42      | 42.11 QP                | 46.00          | -3.89       | 1.50 H             | 307                  | 22.82            | 19.28                    |
| 9   | 624.83      | 39.77 QP                | 46.00          | -6.23       | 1.50 H             | 313                  | 17.79            | 21.98                    |
| 10  | 751.18      | 43.41 QP                | 46.00          | -2.59       | 1.00 H             | 319                  | 19.12            | 24.29                    |
| 11  | 792.00      | 35.30 QP                | 46.00          | -10.70      | 1.00 H             | 142                  | 10.77            | 24.53                    |
| 12  | 875.59      | 34.40 QP                | 46.00          | -11.60      | 1.50 H             | 301                  | 8.93             | 25.46                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 1  | <b>TESTED BY</b>                | Match Tsui                 |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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  | 47.49       | 37.90 QP                | 40.00          | -2.10       | 1.00 V             | 151                  | 22.60            | 15.30                    |
| 2  | 82.48       | 35.90 QP                | 40.00          | -4.10       | 1.50 V             | 142                  | 25.55            | 10.35                    |
| 3  | 123.31      | 41.20 QP                | 43.50          | -2.30       | 1.00 V             | 61                   | 27.61            | 13.60                    |
| 4  | 230.22      | 34.29 QP                | 46.00          | -11.71      | 1.00 V             | 187                  | 21.37            | 12.92                    |
| 5  | 263.27      | 40.50 QP                | 46.00          | -5.50       | 1.50 V             | 115                  | 26.59            | 13.91                    |
| 6  | 374.07      | 35.35 QP                | 46.00          | -10.65      | 1.00 V             | 37                   | 18.67            | 16.68                    |
| 7  | 500.42      | 40.78 QP                | 46.00          | -5.22       | 1.00 V             | 322                  | 21.50            | 19.28                    |
| 8  | 624.83      | 37.81 QP                | 46.00          | -8.19       | 1.50 V             | 37                   | 15.83            | 21.98                    |
| 9  | 751.18      | 38.13 QP                | 46.00          | -7.87       | 1.00 V             | 10                   | 13.84            | 24.29                    |
| 10   | 792.00      | 34.98 QP                | 46.00          | -11.02      | 1.50 V             | 139                  | 10.45            | 24.53                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 2  | <b>TESTED BY</b>                | Match Tsui                 |

#### 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   | 35.83       | 32.01 QP                | 40.00          | -7.99       | 2.00 H             | 67                   | 17.18            | 14.83                    |
| 2   | 82.48       | 33.90 QP                | 40.00          | -6.10       | 2.00 H             | 61                   | 23.55            | 10.35                    |
| 3   | 123.31      | 39.40 QP                | 43.50          | -4.10       | 1.50 H             | 100                  | 25.81            | 13.60                    |
| 4   | 164.13      | 32.16 QP                | 43.50          | -11.34      | 1.50 H             | 184                  | 17.31            | 14.85                    |
| 5   | 197.17      | 32.54 QP                | 43.50          | -10.96      | 1.50 H             | 190                  | 20.47            | 12.08                    |
| 6   | 230.22      | 36.55 QP                | 46.00          | -9.45       | 1.00 H             | 109                  | 23.63            | 12.92                    |
| 7   | 263.27      | 44.45 QP                | 46.00          | -1.55       | 1.00 H             | 88                   | 30.54            | 13.91                    |
| 8   | 374.07      | 37.13 QP                | 46.00          | -8.87       | 1.00 H             | 277                  | 20.45            | 16.68                    |
| 9   | 500.42      | 39.36 QP                | 46.00          | -6.64       | 1.50 H             | 271                  | 20.08            | 19.28                    |
| 10  | 624.83      | 39.94 QP                | 46.00          | -6.06       | 1.50 H             | 301                  | 17.95            | 21.98                    |
| 11  | 751.18      | 41.37 QP                | 46.00          | -4.63       | 1.00 H             | 340                  | 17.08            | 24.29                    |
| 12  | 792.00      | 34.13 QP                | 46.00          | -11.87      | 1.00 H             | 331                  | 9.60             | 24.53                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.

|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 2  | <b>TESTED BY</b>                | Match Tsui                 |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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  | 37.78       | 38.10 QP                | 40.00          | -1.90       | 1.00 V             | 4                    | 22.96            | 15.14                    |
| 2  | 70.82       | 36.60 QP                | 40.00          | -3.40       | 1.00 V             | 34                   | 23.91            | 12.69                    |
| 3  | 123.31      | 40.32 QP                | 43.50          | -3.18       | 1.00 V             | 52                   | 26.72            | 13.60                    |
| 4  | 263.27      | 42.20 QP                | 46.00          | -3.80       | 1.00 V             | 190                  | 28.29            | 13.91                    |
| 5  | 500.42      | 41.74 QP                | 46.00          | -4.26       | 1.00 V             | 28                   | 22.45            | 19.28                    |
| 6  | 624.83      | 37.16 QP                | 46.00          | -8.84       | 1.50 V             | 1                    | 15.18            | 21.98                    |
| 7  | 751.18      | 35.92 QP                | 46.00          | -10.08      | 1.00 V             | 1                    | 11.63            | 24.29                    |
| 8  | 875.59      | 35.36 QP                | 46.00          | -10.64      | 1.50 V             | 355                  | 9.89             | 25.46                    |
| 9  | 908.64      | 44.52 QP                | 46.00          | -1.48       | 2.00 V             | 10                   | 18.52            | 26.00                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.

|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 3  | <b>TESTED BY</b>                | Match Tsui                 |

**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   | 51.38       | 32.54 QP                | 40.00          | -7.46       | 2.00 H             | 235                  | 17.67            | 14.87                    |
| 2   | 82.48       | 32.24 QP                | 40.00          | -7.76       | 2.00 H             | 112                  | 21.89            | 10.35                    |
| 3   | 123.31      | 36.41 QP                | 43.50          | -7.09       | 1.50 H             | 82                   | 22.81            | 13.60                    |
| 4   | 175.79      | 36.16 QP                | 43.50          | -7.34       | 2.00 H             | 175                  | 22.40            | 13.75                    |
| 5   | 230.22      | 34.81 QP                | 46.00          | -11.19      | 1.50 H             | 31                   | 21.89            | 12.92                    |
| 6   | 263.27      | 42.09 QP                | 46.00          | -3.91       | 1.00 H             | 52                   | 28.18            | 13.91                    |
| 7   | 374.07      | 36.55 QP                | 46.00          | -9.45       | 1.00 H             | 280                  | 19.87            | 16.68                    |
| 8   | 465.43      | 44.15 QP                | 46.00          | -1.85       | 2.00 H             | 148                  | 25.31            | 18.84                    |
| 9   | 500.42      | 40.01 QP                | 46.00          | -5.99       | 1.50 H             | 268                  | 20.72            | 19.28                    |
| 10  | 626.77      | 40.70 QP                | 46.00          | -5.30       | 2.00 H             | 145                  | 18.69            | 22.01                    |
| 11  | 751.18      | 43.06 QP                | 46.00          | -2.94       | 1.00 H             | 328                  | 18.77            | 24.29                    |
| 12  | 875.59      | 34.39 QP                | 46.00          | -11.61      | 1.50 H             | 298                  | 8.93             | 25.46                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 3  | <b>TESTED BY</b>                | Match Tsui                 |

**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   | 35.83       | 38.04 QP                | 40.00          | -1.96       | 1.00 V             | 241                  | 23.21            | 14.83                    |
| 2   | 70.82       | 36.04 QP                | 40.00          | -3.96       | 1.00 V             | 352                  | 23.36            | 12.69                    |
| 3   | 105.81      | 33.73 QP                | 43.50          | -9.77       | 1.50 V             | 172                  | 21.83            | 11.90                    |
| 4   | 263.27      | 39.90 QP                | 46.00          | -6.10       | 1.50 V             | 199                  | 25.99            | 13.91                    |
| 5   | 500.42      | 39.40 QP                | 46.00          | -6.60       | 1.00 V             | 49                   | 20.12            | 19.28                    |
| 6   | 624.83      | 37.27 QP                | 46.00          | -8.73       | 1.50 V             | 40                   | 15.28            | 21.98                    |
| 7   | 659.82      | 34.58 QP                | 46.00          | -11.42      | 1.00 V             | 100                  | 12.17            | 22.41                    |
| 8   | 751.18      | 35.96 QP                | 46.00          | -10.04      | 1.00 V             | 13                   | 11.67            | 24.29                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.


**Below 1GHz Worst-Case Data with POE (Model): PW130RA4800N02**

|                        |   |                                 |                         |
|------------------------|---|---------------------------------|-------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DEIL</b>         |                         |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | Below 1000MHz           |
| <b>CHANNEL</b>         | Channel 11                                    | <b>DETECTOR FUNCTION</b>        | Quasi-Peak              |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH, 991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           |
| <b>TEST MODE</b>       | 1   | <b>TESTED BY</b>                | Match Tsui              |

**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   | 45.55       | 38.14 QP                | 40.00          | -1.86       | 1.50 H             | 226                  | 22.61            | 15.53                    |
| 2   | 82.48       | 38.12 QP                | 40.00          | -1.88       | 1.50 H             | 223                  | 27.77            | 10.35                    |
| 3   | 123.31      | 38.65 QP                | 43.50          | -4.85       | 1.50 H             | 103                  | 25.05            | 13.60                    |
| 4   | 175.79      | 33.28 QP                | 43.50          | -10.22      | 1.50 H             | 109                  | 19.53            | 13.75                    |
| 5   | 208.84      | 33.04 QP                | 43.50          | -10.46      | 1.00 H             | 175                  | 20.98            | 12.05                    |
| 6   | 263.27      | 44.26 QP                | 46.00          | -1.74       | 1.00 H             | 16                   | 30.35            | 13.91                    |
| 7   | 307.98      | 33.57 QP                | 46.00          | -12.43      | 1.00 H             | 175                  | 18.35            | 15.21                    |
| 8   | 374.07      | 36.76 QP                | 46.00          | -9.24       | 1.00 H             | 160                  | 20.09            | 16.68                    |
| 9   | 500.42      | 34.61 QP                | 46.00          | -11.39      | 1.50 H             | 313                  | 15.33            | 19.28                    |
| 10  | 572.34      | 33.49 QP                | 46.00          | -12.51      | 1.50 H             | 136                  | 12.57            | 20.92                    |
| 11  | 624.83      | 40.24 QP                | 46.00          | -5.76       | 1.50 H             | 307                  | 18.26            | 21.98                    |
| 12  | 751.18      | 40.10 QP                | 46.00          | -5.90       | 1.00 H             | 319                  | 15.81            | 24.29                    |
| 13  | 792.00      | 33.49 QP                | 46.00          | -12.51      | 1.00 H             | 148                  | 8.96             | 24.53                    |
| 14  | 875.59      | 35.76 QP                | 46.00          | -10.24      | 1.50 H             | 313                  | 10.29            | 25.46                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 1  | <b>TESTED BY</b>                | Match Tsui                 |

**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   | 57.21       | 38.60 QP                | 40.00          | -1.40       | 1.00 V             | 220                  | 24.30            | 14.30                    |
| 2   | 94.15       | 41.99 QP                | 43.50          | -1.51       | 1.00 V             | 343                  | 31.16            | 10.83                    |
| 3   | 142.75      | 40.03 QP                | 43.50          | -3.47       | 1.00 V             | 1                    | 25.22            | 14.81                    |
| 4   | 175.79      | 31.61 QP                | 43.50          | -11.89      | 1.00 V             | 244                  | 17.86            | 13.75                    |
| 5   | 230.22      | 35.25 QP                | 46.00          | -10.75      | 1.00 V             | 184                  | 22.34            | 12.92                    |
| 6   | 263.27      | 40.67 QP                | 46.00          | -5.33       | 1.00 V             | 187                  | 26.76            | 13.91                    |
| 7   | 395.45      | 34.44 QP                | 46.00          | -11.56      | 1.00 V             | 142                  | 17.30            | 17.14                    |
| 8   | 527.64      | 35.27 QP                | 46.00          | -10.73      | 1.00 V             | 106                  | 15.43            | 19.84                    |
| 9   | 624.83      | 37.28 QP                | 46.00          | -8.72       | 1.50 V             | 22                   | 15.29            | 21.98                    |
| 10  | 659.82      | 33.49 QP                | 46.00          | -12.51      | 1.00 V             | 97                   | 11.08            | 22.41                    |
| 11  | 751.18      | 33.89 QP                | 46.00          | -12.11      | 1.00 V             | 310                  | 9.60             | 24.29                    |
| 12  | 792.00      | 35.04 QP                | 46.00          | -10.96      | 1.50 V             | 121                  | 10.51            | 24.53                    |
| 13  | 875.59      | 34.72 QP                | 46.00          | -11.28      | 1.00 V             | 10                   | 9.25             | 25.46                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 2  | <b>TESTED BY</b>                | Match Tsui                 |

### 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        | 47.49        | 37.04 QP                | 40.00          | -2.96        | 1.50 H             | 229                  | 21.73            | 15.30                    |
| <b>2</b> | <b>94.15</b> | <b>42.15 QP</b>         | <b>43.50</b>   | <b>-1.35</b> | <b>2.00 H</b>      | <b>22</b>            | <b>31.32</b>     | <b>10.83</b>             |
| 3        | 131.08       | 36.21 QP                | 43.50          | -7.29        | 1.50 H             | 88                   | 22.07            | 14.13                    |
| 4        | 175.79       | 31.78 QP                | 43.50          | -11.72       | 1.50 H             | 121                  | 18.02            | 13.75                    |
| 5        | 230.22       | 34.58 QP                | 46.00          | -11.42       | 1.00 H             | 106                  | 21.66            | 12.92                    |
| 6        | 263.27       | 44.26 QP                | 46.00          | -1.74        | 1.00 H             | 73                   | 30.35            | 13.91                    |
| 7        | 527.64       | 34.38 QP                | 46.00          | -11.62       | 1.50 H             | 37                   | 14.55            | 19.84                    |
| 8        | 624.83       | 38.38 QP                | 46.00          | -7.62        | 1.50 H             | 313                  | 16.39            | 21.98                    |
| 9        | 751.18       | 39.98 QP                | 46.00          | -6.02        | 1.00 H             | 328                  | 15.69            | 24.29                    |
| 10       | 875.59       | 35.07 QP                | 46.00          | -10.93       | 1.50 H             | 307                  | 9.61             | 25.46                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 2  | <b>TESTED BY</b>                | Match Tsui                 |

#### 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   | 37.78       | 38.55 QP                | 40.00          | -1.45       | 1.50 V             | 151                  | 23.41            | 15.14                    |
| 2   | 82.48       | 38.60 QP                | 40.00          | -1.40       | 1.50 V             | 160                  | 28.25            | 10.35                    |
| 3   | 123.31      | 38.61 QP                | 43.50          | -4.89       | 1.00 V             | 1                    | 25.02            | 13.60                    |
| 4   | 166.07      | 32.91 QP                | 43.50          | -10.59      | 1.00 V             | 79                   | 18.25            | 14.67                    |
| 5   | 263.27      | 41.52 QP                | 46.00          | -4.48       | 1.00 V             | 190                  | 27.61            | 13.91                    |
| 6   | 527.64      | 35.61 QP                | 46.00          | -10.39      | 1.00 V             | 88                   | 15.77            | 19.84                    |
| 7   | 624.83      | 37.49 QP                | 46.00          | -8.51       | 1.50 V             | 43                   | 15.50            | 21.98                    |
| 8   | 875.59      | 36.41 QP                | 46.00          | -9.59       | 1.50 V             | 331                  | 10.94            | 25.46                    |
| 9   | 908.64      | 40.50 QP                | 46.00          | -5.50       | 1.50 V             | 7                    | 14.50            | 26.00                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.





|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 3  | <b>TESTED BY</b>                | Match Tsui                 |

### 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   | 35.83       | 35.90 QP                | 40.00          | -4.10       | 2.00 H             | 22                   | 21.08            | 14.83                    |
| 2   | 94.15       | 38.60 QP                | 43.50          | -4.90       | 1.50 H             | 82                   | 27.77            | 10.83                    |
| 3   | 131.08      | 36.16 QP                | 43.50          | -7.34       | 1.50 H             | 97                   | 22.03            | 14.13                    |
| 4   | 166.07      | 32.53 QP                | 43.50          | -10.97      | 1.50 H             | 88                   | 17.87            | 14.67                    |
| 5   | 197.17      | 32.25 QP                | 43.50          | -11.25      | 1.00 H             | 109                  | 20.17            | 12.08                    |
| 6   | 230.22      | 35.35 QP                | 46.00          | -10.65      | 1.00 H             | 64                   | 22.44            | 12.92                    |
| 7   | 263.27      | 44.20 QP                | 46.00          | -1.80       | 1.00 H             | 19                   | 30.29            | 13.91                    |
| 8   | 352.69      | 33.33 QP                | 46.00          | -12.67      | 1.00 H             | 211                  | 17.11            | 16.22                    |
| 9   | 527.64      | 34.55 QP                | 46.00          | -11.45      | 1.50 H             | 37                   | 14.71            | 19.84                    |
| 10  | 624.83      | 39.64 QP                | 46.00          | -6.36       | 1.50 H             | 304                  | 17.65            | 21.98                    |
| 11  | 751.18      | 39.89 QP                | 46.00          | -6.11       | 1.00 H             | 319                  | 15.60            | 24.29                    |
| 12  | 875.59      | 35.80 QP                | 46.00          | -10.20      | 1.50 H             | 319                  | 10.33            | 25.46                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.



|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | Below 1000MHz              |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Quasi-Peak                 |
| <b>MODULATION TYPE</b> | BPSK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 65%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 3  | <b>TESTED BY</b>                | Match Tsui                 |

**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   | 57.21       | 38.21 QP                | 40.00          | -1.79       | 1.00 V             | 106                  | 23.91            | 14.30                    |
| 2   | 94.15       | 41.98 QP                | 43.50          | -1.52       | 1.00 V             | 322                  | 31.15            | 10.83                    |
| 3   | 142.75      | 39.04 QP                | 43.50          | -4.46       | 1.00 V             | 259                  | 24.23            | 14.81                    |
| 4   | 263.27      | 42.05 QP                | 46.00          | -3.95       | 1.00 V             | 196                  | 28.14            | 13.91                    |
| 5   | 500.42      | 35.81 QP                | 46.00          | -10.19      | 1.00 V             | 22                   | 16.52            | 19.28                    |
| 6   | 624.83      | 36.40 QP                | 46.00          | -9.60       | 1.50 V             | 37                   | 14.41            | 21.98                    |
| 7   | 751.18      | 33.71 QP                | 46.00          | -12.29      | 1.00 V             | 355                  | 9.42             | 24.29                    |
| 8   | 875.59      | 35.27 QP                | 46.00          | -10.73      | 1.50 V             | 331                  | 9.81             | 25.46                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.

**802.11b DSSS modulation**

|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 1                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | CCK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 11Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 1   | <b>TESTED BY</b>                | Match Tsui                 |

**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     | 52.16 PK                | 74.00          | -21.84      | 1.54 H             | 52                   | 21.19            | 30.97                    |
| 1   | 2390.00     | 43.36 AV                | 54.00          | -10.64      | 1.54 H             | 52                   | 12.39            | 30.97                    |
| 2   | *2412.00    | 89.69 PK                |                |             | 1.54 H             | 52                   | 58.63            | 31.06                    |
| 2   | *2412.00    | 82.17 AV                |                |             | 1.54 H             | 52                   | 51.11            | 31.06                    |
| 3   | 4824.00     | 49.10 PK                | 74.00          | -24.90      | 1.20 H             | 349                  | 12.67            | 36.43                    |
| 3   | 4824.00     | 44.09 AV                | 54.00          | -9.91       | 1.20 H             | 349                  | 7.66             | 36.43                    |
| 4   | 9648.00     | 53.42 PK                | 74.00          | -20.58      | 1.28 H             | 52                   | 8.35             | 45.07                    |
| 4   | 9648.00     | 44.11 AV                | 54.00          | -9.89       | 1.28 H             | 52                   | -0.96            | 45.07                    |

**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     | 53.80 PK                | 74.00          | -20.20      | 1.48 V             | 123                  | 22.83            | 30.97                    |
| 1   | 2390.00     | 44.27 AV                | 54.00          | -9.73       | 1.48 V             | 123                  | 13.30            | 30.97                    |
| 2   | *2412.00    | 107.95 PK               |                |             | 1.48 V             | 123                  | 76.89            | 31.06                    |
| 2   | *2412.00    | 100.14 AV               |                |             | 1.48 V             | 123                  | 69.08            | 31.06                    |
| 3   | 4824.00     | 51.13 PK                | 74.00          | -22.87      | 1.02 V             | 103                  | 14.70            | 36.43                    |
| 3   | 4824.00     | 47.64 AV                | 54.00          | -6.36       | 1.02 V             | 103                  | 11.21            | 36.43                    |
| 4   | 9648.00     | 55.19 PK                | 74.00          | -18.81      | 1.01 V             | 101                  | 10.12            | 45.07                    |
| 4   | 9648.00     | 44.70 AV                | 54.00          | -9.30       | 1.01 V             | 101                  | -0.37            | 45.07                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 6                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | CCK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 11Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 1   | <b>TESTED BY</b>                | Match Tsui                 |

**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    | 94.21 PK                |                |             | 1.02 H             | 332                  | 63.04            | 31.17                    |
| 1   | *2437.00    | 86.34 AV                |                |             | 1.02 H             | 332                  | 55.17            | 31.17                    |
| 2   | 4874.00     | 48.65 PK                | 74.00          | -25.35      | 1.21 H             | 10                   | 12.11            | 36.54                    |
| 2   | 4874.00     | 43.74 AV                | 54.00          | -10.26      | 1.21 H             | 10                   | 7.20             | 36.54                    |
| 3   | 9748.00     | 54.01 PK                | 74.00          | -19.99      | 1.20 H             | 350                  | 8.74             | 45.27                    |
| 3   | 9748.00     | 44.60 AV                | 54.00          | -9.40       | 1.20 H             | 350                  | -0.67            | 45.27                    |

**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    | 111.78 PK               |                |             | 1.10 V             | 58                   | 80.61            | 31.17                    |
| 1   | *2437.00    | 104.24 AV               |                |             | 1.10 V             | 58                   | 73.07            | 31.17                    |
| 2   | 4874.00     | 51.97 PK                | 74.00          | -22.03      | 1.17 V             | 294                  | 15.43            | 36.54                    |
| 2   | 4874.00     | 44.59 AV                | 54.00          | -9.41       | 1.17 V             | 294                  | 8.05             | 36.54                    |
| 3   | 9748.00     | 54.50 PK                | 74.00          | -19.50      | 1.04 V             | 100                  | 9.23             | 45.27                    |
| 3   | 9748.00     | 44.10 AV                | 54.00          | -9.90       | 1.04 V             | 100                  | -1.17            | 45.27                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 11                                    | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | CCK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 11Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 1   | <b>TESTED BY</b>                | Match Tsui                 |

**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   | 1000.00     | 46.96 PK                | 74.00          | -27.04      | 1.06 H             | 123                  | 20.30            | 26.66                    |
| 1   | 1000.00     | 39.11 AV                | 54.00          | -14.89      | 1.06 H             | 123                  | 12.45            | 26.66                    |
| 2   | *2462.00    | 94.74 PK                |                |             | 1.06 H             | 123                  | 63.46            | 31.28                    |
| 2   | *2462.00    | 87.02 AV                |                |             | 1.06 H             | 123                  | 55.74            | 31.28                    |
| 3   | 4924.00     | 48.68 PK                | 74.00          | -25.32      | 1.20 H             | 10                   | 12.02            | 36.66                    |
| 3   | 4924.00     | 43.43 AV                | 54.00          | -10.57      | 1.20 H             | 10                   | 6.77             | 36.66                    |
| 4   | 9848.00     | 52.68 PK                | 74.00          | -21.32      | 1.14 H             | 12                   | 7.27             | 45.41                    |
| 4   | 9848.00     | 43.85 AV                | 54.00          | -10.15      | 1.14 H             | 12                   | -1.56            | 45.41                    |

**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   | *2462.00    | 106.43 PK               |                |             | 1.17 V             | 73                   | 75.15            | 31.28                    |
| 1   | *2462.00    | 98.44 AV                |                |             | 1.17 V             | 73                   | 67.16            | 31.28                    |
| 2   | 2500.00     | 55.13 PK                | 74.00          | -18.87      | 1.17 V             | 73                   | 23.69            | 31.44                    |
| 2   | 2500.00     | 46.00 AV                | 54.00          | -8.00       | 1.17 V             | 73                   | 14.56            | 31.44                    |
| 3   | 4924.00     | 51.30 PK                | 74.00          | -22.70      | 1.04 V             | 100                  | 14.64            | 36.66                    |
| 3   | 4924.00     | 47.86 AV                | 54.00          | -6.14       | 1.04 V             | 100                  | 11.20            | 36.66                    |
| 4   | 9848.00     | 54.26 PK                | 74.00          | -19.74      | 1.01 V             | 300                  | 8.85             | 45.41                    |
| 4   | 9848.00     | 43.87 AV                | 54.00          | -10.13      | 1.01 V             | 300                  | -1.54            | 45.41                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                           |
|------------------------|---|---------------------------------|---------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                           |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                  |
| <b>CHANNEL</b>         | Channel 1                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV) |
| <b>MODULATION TYPE</b> | CCK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH, 991hPa   |
| <b>TRANSFER RATE</b>   | 11Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz             |
| <b>TEST MODE</b>       | 2   | <b>TESTED BY</b>                | Match Tsui                |

**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   | 2387.00     | 52.52 PK                | 74.00          | -21.48      | 1.45 H             | 131                  | 21.56            | 30.96                    |
| 1   | 2387.00     | 43.23 AV                | 54.00          | -10.77      | 1.45 H             | 131                  | 12.27            | 30.96                    |
| 2   | *2412.00    | 92.79 PK                |                |             | 1.45 H             | 131                  | 61.73            | 31.06                    |
| 2   | *2412.00    | 85.00 AV                |                |             | 1.45 H             | 131                  | 53.94            | 31.06                    |
| 3   | 4824.00     | 49.95 PK                | 74.00          | -24.05      | 1.07 H             | 190                  | 13.52            | 36.43                    |
| 3   | 4824.00     | 45.86 AV                | 54.00          | -8.14       | 1.07 H             | 190                  | 9.43             | 36.43                    |
| 4   | 9648.00     | 53.73 PK                | 74.00          | -20.27      | 1.30 H             | 201                  | 8.66             | 45.07                    |
| 4   | 9648.00     | 43.40 AV                | 54.00          | -10.60      | 1.30 H             | 201                  | -1.67            | 45.07                    |

**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   | 2387.00     | 55.87 PK                | 74.00          | -18.13      | 1.13 V             | 358                  | 24.91            | 30.96                    |
| 1   | 2387.00     | 46.71 AV                | 54.00          | -7.29       | 1.13 V             | 358                  | 15.75            | 30.96                    |
| 2   | *2412.00    | 111.47 PK               |                |             | 1.13 V             | 358                  | 80.41            | 31.06                    |
| 2   | *2412.00    | 103.94 AV               |                |             | 1.13 V             | 358                  | 72.88            | 31.06                    |
| 3   | 4824.00     | 49.32 PK                | 74.00          | -24.68      | 1.19 V             | 174                  | 12.89            | 36.43                    |
| 3   | 4824.00     | 44.58 AV                | 54.00          | -9.42       | 1.19 V             | 174                  | 8.15             | 36.43                    |
| 4   | 9648.00     | 56.28 PK                | 74.00          | -17.72      | 1.00 V             | 31                   | 11.21            | 45.07                    |
| 4   | 9648.00     | 47.57 AV                | 54.00          | -6.43       | 1.00 V             | 31                   | 2.50             | 45.07                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                           |
|------------------------|---|---------------------------------|---------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                           |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                  |
| <b>CHANNEL</b>         | Channel 6                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV) |
| <b>MODULATION TYPE</b> | CCK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH, 991hPa   |
| <b>TRANSFER RATE</b>   | 11Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz             |
| <b>TEST MODE</b>       | 2   | <b>TESTED BY</b>                | Match Tsui                |

**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    | 97.30 PK                |                |             | 1.40 H             | 141                  | 66.13            | 31.17                    |
| 1   | *2437.00    | 90.15 AV                |                |             | 1.40 H             | 141                  | 58.98            | 31.17                    |
| 2   | 4874.00     | 54.35 PK                | 74.00          | -19.65      | 1.04 H             | 190                  | 17.81            | 36.54                    |
| 2   | 4874.00     | 47.75 AV                | 54.00          | -6.25       | 1.04 H             | 190                  | 11.21            | 36.54                    |
| 3   | 9748.00     | 54.26 PK                | 74.00          | -19.74      | 1.24 H             | 188                  | 8.99             | 45.27                    |
| 3   | 9748.00     | 44.08 AV                | 54.00          | -9.92       | 1.24 H             | 188                  | -1.19            | 45.27                    |

**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    | 114.97 PK               |                |             | 1.15 V             | 360                  | 83.80            | 31.17                    |
| 1   | *2437.00    | 107.54 AV               |                |             | 1.15 V             | 360                  | 76.37            | 31.17                    |
| 2   | 4874.00     | 55.18 PK                | 74.00          | -18.82      | 1.14 V             | 185                  | 18.64            | 36.54                    |
| 2   | 4874.00     | 46.10 AV                | 54.00          | -7.90       | 1.14 V             | 185                  | 9.56             | 36.54                    |
| 3   | 9748.00     | 54.20 PK                | 74.00          | -19.80      | 1.04 V             | 12                   | 8.93             | 45.27                    |
| 3   | 9748.00     | 45.09 AV                | 54.00          | -8.91       | 1.04 V             | 12                   | -0.18            | 45.27                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 11                                    | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | CCK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 11Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 2   | <b>TESTED BY</b>                | Match Tsui                 |

#### 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   | *2462.00    | 92.06 PK                |                |             | 1.41 H             | 121                  | 60.78            | 31.28                    |
| 1   | *2462.00    | 84.26 AV                |                |             | 1.41 H             | 121                  | 52.98            | 31.28                    |
| 2   | 2500.00     | 47.20 PK                | 74.00          | -26.80      | 1.41 H             | 121                  | 15.76            | 31.44                    |
| 2   | 2500.00     | 41.32 AV                | 54.00          | -12.68      | 1.41 H             | 121                  | 9.88             | 31.44                    |
| 3   | 4924.00     | 50.10 PK                | 74.00          | -23.90      | 1.20 H             | 350                  | 13.44            | 36.66                    |
| 3   | 4924.00     | 44.41 AV                | 54.00          | -9.59       | 1.20 H             | 350                  | 7.75             | 36.66                    |
| 4   | 9848.00     | 49.54 PK                | 74.00          | -24.46      | 1.09 H             | 340                  | 4.13             | 45.41                    |
| 4   | 9848.00     | 41.36 AV                | 54.00          | -12.64      | 1.09 H             | 340                  | -4.05            | 45.41                    |

#### 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   | *2462.00    | 109.73 PK               |                |             | 1.13 V             | 343                  | 78.45            | 31.28                    |
| 1   | *2462.00    | 101.78 AV               |                |             | 1.13 V             | 343                  | 70.50            | 31.28                    |
| 2   | 2500.00     | 56.70 PK                | 74.00          | -17.30      | 1.13 V             | 343                  | 25.26            | 31.44                    |
| 2   | 2500.00     | 47.98 AV                | 54.00          | -6.02       | 1.13 V             | 343                  | 16.54            | 31.44                    |
| 3   | 4924.00     | 49.88 PK                | 74.00          | -24.12      | 1.30 V             | 54                   | 13.22            | 36.66                    |
| 3   | 4924.00     | 43.84 AV                | 54.00          | -10.16      | 1.30 V             | 54                   | 7.18             | 36.66                    |
| 4   | 9848.00     | 53.00 PK                | 74.00          | -21.00      | 1.37 V             | 247                  | 7.59             | 45.41                    |
| 4   | 9848.00     | 43.81 AV                | 54.00          | -10.19      | 1.37 V             | 247                  | -1.60            | 45.41                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.





|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 1  | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | CCK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 11Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 3  | <b>TESTED BY</b>                | Match Tsui                 |

### 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   | 2387.00     | 50.42 PK                | 74.00          | -23.58      | 1.15 H             | 360                  | 19.46            | 30.96                    |
| 1   | 2387.00     | 43.11 AV                | 54.00          | -10.89      | 1.15 H             | 360                  | 12.15            | 30.96                    |
| 2   | *2412.00    | 100.12 PK               |                |             | 1.15 H             | 360                  | 69.06            | 31.06                    |
| 2   | *2412.00    | 92.80 AV                |                |             | 1.15 H             | 360                  | 61.74            | 31.06                    |
| 3   | 4824.00     | 52.64 PK                | 74.00          | -21.36      | 1.01 H             | 350                  | 16.21            | 36.43                    |
| 3   | 4824.00     | 49.18 AV                | 54.00          | -4.82       | 1.01 H             | 350                  | 12.75            | 36.43                    |
| 4   | 9648.00     | 52.40 PK                | 74.00          | -21.60      | 1.00 H             | 350                  | 7.33             | 45.07                    |
| 4   | 9648.00     | 43.60 AV                | 54.00          | -10.40      | 1.00 H             | 350                  | -1.47            | 45.07                    |

### 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   | 2387.00     | 60.41 PK                | 74.00          | -13.59      | 1.15 V             | 346                  | 29.45            | 30.96                    |
| 1   | 2387.00     | 50.53 AV                | 54.00          | -3.47       | 1.15 V             | 346                  | 19.57            | 30.96                    |
| 2   | *2412.00    | 117.12 PK               |                |             | 1.15 V             | 346                  | 86.06            | 31.06                    |
| 2   | *2412.00    | 109.15 AV               |                |             | 1.15 V             | 346                  | 78.09            | 31.06                    |
| 3   | 4824.00     | 50.87 PK                | 74.00          | -23.13      | 1.02 V             | 107                  | 14.44            | 36.43                    |
| 3   | 4824.00     | 47.21 AV                | 54.00          | -6.79       | 1.02 V             | 107                  | 10.78            | 36.43                    |
| 4   | 9648.00     | 53.80 PK                | 74.00          | -20.20      | 1.21 V             | 104                  | 8.73             | 45.07                    |
| 4   | 9648.00     | 44.51 AV                | 54.00          | -9.49       | 1.21 V             | 104                  | -0.56            | 45.07                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                           |
|------------------------|---|---------------------------------|---------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                           |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                  |
| <b>CHANNEL</b>         | Channel 6                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV) |
| <b>MODULATION TYPE</b> | CCK   | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH, 991hPa   |
| <b>TRANSFER RATE</b>   | 11Mbps  | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz             |
| <b>TEST MODE</b>       | 3   | <b>TESTED BY</b>                | Match Tsui                |

**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    | 104.23 PK               |                |             | 1.04 H             | 10                   | 73.06            | 31.17                    |
| 1   | *2437.00    | 96.32 AV                |                |             | 1.04 H             | 10                   | 65.15            | 31.17                    |
| 2   | 4874.00     | 51.40 PK                | 74.00          | -22.60      | 1.09 H             | 360                  | 14.86            | 36.54                    |
| 2   | 4874.00     | 45.02 AV                | 54.00          | -8.98       | 1.09 H             | 360                  | 8.48             | 36.54                    |
| 3   | 9748.00     | 50.20 PK                | 74.00          | -23.80      | 1.00 H             | 360                  | 4.93             | 45.27                    |
| 3   | 9748.00     | 42.15 AV                | 54.00          | -11.85      | 1.00 H             | 360                  | -3.12            | 45.27                    |

**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    | 122.44 PK               |                |             | 1.13 V             | 347                  | 91.27            | 31.17                    |
| 1   | *2437.00    | 114.67 AV               |                |             | 1.13 V             | 347                  | 83.50            | 31.17                    |
| 2   | 4874.00     | 61.93 PK                | 74.00          | -12.07      | 1.03 V             | 346                  | 25.39            | 36.54                    |
| 2   | 4874.00     | 52.41 AV                | 54.00          | -1.59       | 1.03 V             | 346                  | 15.87            | 36.54                    |
| 3   | 7311.00     | 54.16 PK                | 74.00          | -19.84      | 1.00 V             | 345                  | 11.70            | 42.46                    |
| 3   | 7311.00     | 43.64 AV                | 54.00          | -10.36      | 1.00 V             | 345                  | 1.18             | 42.46                    |
| 4   | 9748.00     | 54.99 PK                | 74.00          | -19.01      | 1.18 V             | 100                  | 9.72             | 45.27                    |
| 4   | 9748.00     | 45.81 AV                | 54.00          | -8.19       | 1.18 V             | 100                  | 0.54             | 45.27                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. " \* " : Fundamental frequency.



|                        |  |                                 |                            |
|------------------------|--|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps<br>Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565   | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 11                                       | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | CCK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 11Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 3  | <b>TESTED BY</b>                | Match Tsui                 |

#### 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   | *2462.00    | 100.08 PK               |                |             | 1.20 H             | 350                  | 68.80            | 31.28                    |
| 1   | *2462.00    | 91.86 AV                |                |             | 1.20 H             | 350                  | 60.58            | 31.28                    |
| 2   | 2487.00     | 52.31 PK                | 74.00          | -21.69      | 1.20 H             | 350                  | 20.93            | 31.38                    |
| 2   | 2487.00     | 43.82 AV                | 54.00          | -10.18      | 1.20 H             | 350                  | 12.44            | 31.38                    |
| 3   | 4924.00     | 51.88 PK                | 74.00          | -22.12      | 1.08 H             | 12                   | 15.22            | 36.66                    |
| 3   | 4924.00     | 45.63 AV                | 54.00          | -8.37       | 1.08 H             | 12                   | 8.97             | 36.66                    |
| 4   | 9848.00     | 47.80 PK                | 74.00          | -26.20      | 1.07 H             | 1                    | 2.39             | 45.41                    |
| 4   | 9848.00     | 39.50 AV                | 54.00          | -14.50      | 1.07 H             | 1                    | -5.91            | 45.41                    |

#### 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   | *2462.00    | 117.36 PK               |                |             | 1.12 V             | 346                  | 86.08            | 31.28                    |
| 1   | *2462.00    | 109.45 AV               |                |             | 1.12 V             | 346                  | 78.17            | 31.28                    |
| 2   | 2500.00     | 64.24 PK                | 74.00          | -9.76       | 1.12 V             | 346                  | 32.80            | 31.44                    |
| 2   | 2500.00     | 52.62 AV                | 54.00          | -1.38       | 1.12 V             | 346                  | 21.18            | 31.44                    |
| 3   | 4924.00     | 51.44 PK                | 74.00          | -22.56      | 1.00 V             | 109                  | 14.78            | 36.66                    |
| 3   | 4924.00     | 48.23 AV                | 54.00          | -5.77       | 1.00 V             | 109                  | 11.57            | 36.66                    |
| 4   | 9848.00     | 54.81 PK                | 74.00          | -19.19      | 1.11 V             | 284                  | 9.40             | 45.41                    |
| 4   | 9848.00     | 45.11 AV                | 54.00          | -8.89       | 1.11 V             | 284                  | -0.30            | 45.41                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



### 802.11g OFDM modulation

|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 1                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 1   | <b>TESTED BY</b>                | Match Tsui                 |

#### 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     | 48.10 PK                | 74.00          | -25.90      | 1.05 H             | 355                  | 17.13            | 30.97                    |
| 1   | 2390.00     | 38.60 AV                | 54.00          | -15.40      | 1.05 H             | 355                  | 7.63             | 30.97                    |
| 2   | *2412.00    | 85.14 PK                |                |             | 1.05 H             | 355                  | 54.08            | 31.06                    |
| 2   | *2412.00    | 75.36 AV                |                |             | 1.05 H             | 355                  | 44.30            | 31.06                    |
| 3   | 4824.00     | 52.10 PK                | 74.00          | -21.90      | 1.20 H             | 100                  | 15.67            | 36.43                    |
| 3   | 4824.00     | 48.32 AV                | 54.00          | -5.68       | 1.20 H             | 100                  | 11.89            | 36.43                    |
| 4   | 9648.00     | 51.80 PK                | 74.00          | -22.20      | 1.04 H             | 311                  | 6.73             | 45.07                    |
| 4   | 9648.00     | 43.80 AV                | 54.00          | -10.20      | 1.04 H             | 311                  | -1.27            | 45.07                    |

#### 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     | 53.91 PK                | 74.00          | -20.09      | 1.46 V             | 143                  | 22.94            | 30.97                    |
| 1   | 2390.00     | 44.20 AV                | 54.00          | -9.80       | 1.46 V             | 143                  | 13.23            | 30.97                    |
| 2   | *2412.00    | 102.70 PK               |                |             | 1.46 V             | 143                  | 71.64            | 31.06                    |
| 2   | *2412.00    | 93.92 AV                |                |             | 1.46 V             | 143                  | 62.86            | 31.06                    |
| 3   | 4824.00     | 52.26 PK                | 74.00          | -21.74      | 1.41 V             | 97                   | 15.83            | 36.43                    |
| 3   | 4824.00     | 48.46 AV                | 54.00          | -5.54       | 1.41 V             | 97                   | 12.03            | 36.43                    |
| 4   | 9648.00     | 55.35 PK                | 74.00          | -18.65      | 1.06 V             | 48                   | 10.28            | 45.07                    |
| 4   | 9648.00     | 45.98 AV                | 54.00          | -8.02       | 1.06 V             | 48                   | 0.91             | 45.07                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                           |
|------------------------|---|---------------------------------|---------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                           |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                  |
| <b>CHANNEL</b>         | Channel 6                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV) |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH, 991hPa   |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz             |
| <b>TEST MODE</b>       | 1   | <b>TESTED BY</b>                | Match Tsui                |

**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    | 90.56 PK                |                |             | 1.21 H             | 11                   | 59.39            | 31.17                    |
| 1   | *2437.00    | 52.67 AV                |                |             | 1.21 H             | 11                   | 21.50            | 31.17                    |
| 2   | 4874.00     | 51.64 PK                | 74.00          | -22.36      | 1.05 H             | 100                  | 15.10            | 36.54                    |
| 2   | 4874.00     | 48.86 AV                | 54.00          | -5.14       | 1.05 H             | 100                  | 12.32            | 36.54                    |
| 3   | 9748.00     | 50.14 PK                | 74.00          | -23.86      | 1.12 H             | 320                  | 4.87             | 45.27                    |
| 3   | 9748.00     | 42.62 AV                | 54.00          | -11.38      | 1.12 H             | 320                  | -2.65            | 45.27                    |

**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    | 109.89 PK               |                |             | 1.20 V             | 12                   | 78.72            | 31.17                    |
| 1   | *2437.00    | 100.10 AV               |                |             | 1.20 V             | 12                   | 68.93            | 31.17                    |
| 2   | 4874.00     | 53.58 PK                | 74.00          | -20.42      | 1.31 V             | 100                  | 17.04            | 36.54                    |
| 2   | 4874.00     | 49.18 AV                | 54.00          | -4.82       | 1.31 V             | 100                  | 12.64            | 36.54                    |
| 3   | 9748.00     | 55.68 PK                | 74.00          | -18.32      | 1.08 V             | 323                  | 10.41            | 45.27                    |
| 3   | 9748.00     | 46.12 AV                | 54.00          | -7.88       | 1.08 V             | 323                  | 0.85             | 45.27                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 11                                    | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 1   | <b>TESTED BY</b>                | Match Tsui                 |

**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   | *2462.00    | 85.10 PK                |                |             | 1.11 H             | 300                  | 53.82            | 31.28                    |
| 1   | *2462.00    | 75.31 AV                |                |             | 1.11 H             | 300                  | 44.03            | 31.28                    |
| 2   | 2483.50     | 48.41 PK                | 74.00          | -25.59      | 1.11 H             | 300                  | 17.04            | 31.37                    |
| 2   | 2483.50     | 39.51 AV                | 54.00          | -14.49      | 1.11 H             | 300                  | 8.14             | 31.37                    |
| 3   | 4924.00     | 50.34 PK                | 74.00          | -23.66      | 1.04 H             | 151                  | 13.68            | 36.66                    |
| 3   | 4924.00     | 46.28 AV                | 54.00          | -7.72       | 1.04 H             | 151                  | 9.62             | 36.66                    |
| 4   | 9848.00     | 49.56 PK                | 74.00          | -24.44      | 1.21 H             | 341                  | 4.15             | 45.41                    |
| 4   | 9848.00     | 41.23 AV                | 54.00          | -12.77      | 1.21 H             | 341                  | -4.18            | 45.41                    |

**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   | *2462.00    | 102.50 PK               |                |             | 1.16 V             | 297                  | 71.22            | 31.28                    |
| 1   | *2462.00    | 92.70 AV                |                |             | 1.16 V             | 297                  | 61.42            | 31.28                    |
| 2   | 2483.50     | 53.87 PK                | 74.00          | -20.13      | 1.16 V             | 297                  | 22.50            | 31.37                    |
| 2   | 2483.50     | 44.81 AV                | 54.00          | -9.19       | 1.16 V             | 297                  | 13.44            | 31.37                    |
| 3   | 4924.00     | 51.80 PK                | 74.00          | -22.20      | 1.04 V             | 333                  | 15.14            | 36.66                    |
| 3   | 4924.00     | 45.75 AV                | 54.00          | -8.25       | 1.04 V             | 333                  | 9.09             | 36.66                    |
| 4   | 9848.00     | 48.60 PK                | 74.00          | -25.40      | 1.05 V             | 311                  | 3.19             | 45.41                    |
| 4   | 9848.00     | 42.13 AV                | 54.00          | -11.87      | 1.05 V             | 311                  | -3.28            | 45.41                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 1                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 2   | <b>TESTED BY</b>                | Match Tsui                 |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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     | 52.23 PK                | 74.00          | -21.77      | 1.27 H             | 309                  | 21.26            | 30.97                    |
| 1  | 2390.00     | 43.46 AV                | 54.00          | -10.54      | 1.27 H             | 309                  | 12.49            | 30.97                    |
| 2  | *2412.00    | 89.43 PK                |                |             | 1.27 H             | 309                  | 58.37            | 31.06                    |
| 2  | *2412.00    | 80.06 AV                |                |             | 1.27 H             | 309                  | 49.00            | 31.06                    |
| 3  | 4824.00     | 50.18 PK                | 74.00          | -23.82      | 1.09 H             | 197                  | 13.75            | 36.43                    |
| 3  | 4824.00     | 45.94 AV                | 54.00          | -8.06       | 1.09 H             | 197                  | 9.51             | 36.43                    |
| 4  | 9648.00     | 53.89 PK                | 74.00          | -20.11      | 1.26 H             | 10                   | 8.82             | 45.07                    |
| 4  | 9648.00     | 42.54 AV                | 54.00          | -11.46      | 1.26 H             | 10                   | -2.53            | 45.07                    |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 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     | 58.51 PK                | 74.00          | -15.49      | 1.14 V             | 358                  | 27.54            | 30.97                    |
| 1  | 2390.00     | 46.69 AV                | 54.00          | -7.31       | 1.14 V             | 358                  | 15.72            | 30.97                    |
| 2  | *2412.00    | 105.18 PK               |                |             | 1.14 V             | 358                  | 74.12            | 31.06                    |
| 2  | *2412.00    | 96.06 AV                |                |             | 1.14 V             | 358                  | 65.00            | 31.06                    |
| 3  | 4824.00     | 50.99 PK                | 74.00          | -23.01      | 1.16 V             | 9                    | 14.56            | 36.43                    |
| 3  | 4824.00     | 45.70 AV                | 54.00          | -8.30       | 1.16 V             | 9                    | 9.27             | 36.43                    |
| 4  | 9648.00     | 53.81 PK                | 74.00          | -20.19      | 1.10 V             | 295                  | 8.74             | 45.07                    |
| 4  | 9648.00     | 45.62 AV                | 54.00          | -8.38       | 1.10 V             | 295                  | 0.55             | 45.07                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 6                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 2   | <b>TESTED BY</b>                | Match Tsui                 |

**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    | 94.42 PK                |                |             | 1.21 H             | 30                   | 63.25            | 31.17                    |
| 1   | *2437.00    | 55.84 AV                |                |             | 1.21 H             | 30                   | 24.67            | 31.17                    |
| 2   | 4874.00     | 49.50 PK                | 74.00          | -24.50      | 1.10 H             | 210                  | 12.96            | 36.54                    |
| 2   | 4874.00     | 45.48 AV                | 54.00          | -8.52       | 1.10 H             | 210                  | 8.94             | 36.54                    |
| 3   | 9748.00     | 52.30 PK                | 74.00          | -21.70      | 1.23 H             | 355                  | 7.03             | 45.27                    |
| 3   | 9748.00     | 41.59 AV                | 54.00          | -12.41      | 1.23 H             | 355                  | -3.68            | 45.27                    |

**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    | 112.87 PK               |                |             | 1.14 V             | 300                  | 81.70            | 31.17                    |
| 1   | *2437.00    | 103.45 AV               |                |             | 1.14 V             | 300                  | 72.28            | 31.17                    |
| 2   | 4874.00     | 50.39 PK                | 74.00          | -23.61      | 1.15 V             | 360                  | 13.85            | 36.54                    |
| 2   | 4874.00     | 45.29 AV                | 54.00          | -8.71       | 1.15 V             | 360                  | 8.75             | 36.54                    |
| 3   | 9748.00     | 52.36 PK                | 74.00          | -21.64      | 1.11 V             | 321                  | 7.09             | 45.27                    |
| 3   | 9748.00     | 44.18 AV                | 54.00          | -9.82       | 1.11 V             | 321                  | -1.09            | 45.27                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 11                                    | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 2   | <b>TESTED BY</b>                | Match Tsui                 |

#### 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   | 1000.00     | 48.15 PK                | 74.00          | -25.85      | 1.21 H             | 10                   | 21.49            | 26.66                    |
| 1   | 1000.00     | 39.51 AV                | 54.00          | -14.49      | 1.21 H             | 10                   | 12.85            | 26.66                    |
| 2   | *2462.00    | 87.40 PK                |                |             | 1.21 H             | 10                   | 56.12            | 31.28                    |
| 2   | *2462.00    | 79.59 AV                |                |             | 1.21 H             | 10                   | 48.31            | 31.28                    |
| 3   | 4924.00     | 50.37 PK                | 74.00          | -23.63      | 1.14 H             | 193                  | 13.71            | 36.66                    |
| 3   | 4924.00     | 47.69 AV                | 54.00          | -6.31       | 1.14 H             | 193                  | 11.03            | 36.66                    |
| 4   | 9848.00     | 48.20 PK                | 74.00          | -25.80      | 1.18 H             | 10                   | 2.79             | 45.41                    |
| 4   | 9848.00     | 40.14 AV                | 54.00          | -13.86      | 1.18 H             | 10                   | -5.27            | 45.41                    |

#### 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   | *2462.00    | 105.56 PK               |                |             | 1.10 V             | 14                   | 74.28            | 31.28                    |
| 1   | *2462.00    | 96.36 AV                |                |             | 1.10 V             | 14                   | 65.08            | 31.28                    |
| 2   | 2500.00     | 57.65 PK                | 74.00          | -16.35      | 1.10 V             | 14                   | 26.21            | 31.44                    |
| 2   | 2500.00     | 47.16 AV                | 54.00          | -6.84       | 1.10 V             | 14                   | 15.72            | 31.44                    |
| 3   | 4924.00     | 49.83 PK                | 74.00          | -24.17      | 1.27 V             | 360                  | 13.17            | 36.66                    |
| 3   | 4924.00     | 44.21 AV                | 54.00          | -9.79       | 1.27 V             | 360                  | 7.55             | 36.66                    |
| 4   | 9848.00     | 54.71 PK                | 74.00          | -19.29      | 1.00 V             | 5                    | 9.30             | 45.41                    |
| 4   | 9848.00     | 45.54 AV                | 54.00          | -8.46       | 1.00 V             | 5                    | 0.13             | 45.41                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 1                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 3   | <b>TESTED BY</b>                | Match Tsui                 |

**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     | 54.10 PK                | 74.00          | -19.90      | 1.07 H             | 355                  | 23.13            | 30.97                    |
| 1   | 2390.00     | 43.80 AV                | 54.00          | -10.20      | 1.07 H             | 355                  | 12.83            | 30.97                    |
| 2   | *2412.00    | 96.89 PK                |                |             | 1.07 H             | 355                  | 65.83            | 31.06                    |
| 2   | *2412.00    | 87.69 AV                |                |             | 1.07 H             | 355                  | 56.63            | 31.06                    |
| 3   | 4824.00     | 54.18 PK                | 74.00          | -19.82      | 1.01 H             | 300                  | 17.75            | 36.43                    |
| 3   | 4824.00     | 49.28 AV                | 54.00          | -4.72       | 1.01 H             | 300                  | 12.85            | 36.43                    |
| 4   | 9648.00     | 53.40 PK                | 74.00          | -20.60      | 1.00 H             | 100                  | 8.33             | 45.07                    |
| 4   | 9648.00     | 44.25 AV                | 54.00          | -9.75       | 1.00 H             | 100                  | -0.82            | 45.07                    |

**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     | 64.56 PK                | 74.00          | -9.44       | 1.10 V             | 346                  | 33.59            | 30.97                    |
| 1   | 2390.00     | 50.03 AV                | 54.00          | -3.97       | 1.10 V             | 346                  | 19.06            | 30.97                    |
| 2   | *2412.00    | 111.41 PK               |                |             | 1.10 V             | 346                  | 80.35            | 31.06                    |
| 2   | *2412.00    | 102.05 AV               |                |             | 1.10 V             | 346                  | 70.99            | 31.06                    |
| 3   | 4824.00     | 50.88 PK                | 74.00          | -23.12      | 1.00 V             | 97                   | 14.45            | 36.43                    |
| 3   | 4824.00     | 46.86 AV                | 54.00          | -7.14       | 1.00 V             | 97                   | 10.43            | 36.43                    |
| 4   | 9648.00     | 53.46 PK                | 74.00          | -20.54      | 1.00 V             | 350                  | 8.39             | 45.07                    |
| 4   | 9648.00     | 44.38 AV                | 54.00          | -9.62       | 1.00 V             | 350                  | -0.69            | 45.07                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                           |
|------------------------|---|---------------------------------|---------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                           |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                  |
| <b>CHANNEL</b>         | Channel 6                                     | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV) |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH, 991hPa   |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz             |
| <b>TEST MODE</b>       | 3   | <b>TESTED BY</b>                | Match Tsui                |

**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    | 102.00 PK               |                |             | 1.07 H             | 10                   | 70.83            | 31.17                    |
| 1   | *2437.00    | 93.02 AV                |                |             | 1.07 H             | 10                   | 61.85            | 31.17                    |
| 2   | 4874.00     | 52.10 PK                | 74.00          | -21.90      | 1.04 H             | 344                  | 15.56            | 36.54                    |
| 2   | 4874.00     | 47.17 AV                | 54.00          | -6.83       | 1.04 H             | 344                  | 10.63            | 36.54                    |
| 3   | 9748.00     | 49.50 PK                | 74.00          | -24.50      | 1.04 H             | 343                  | 4.23             | 45.27                    |
| 3   | 9748.00     | 41.14 AV                | 54.00          | -12.86      | 1.04 H             | 343                  | -4.13            | 45.27                    |

**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    | 119.69 PK               |                |             | 1.11 V             | 347                  | 88.52            | 31.17                    |
| 1   | *2437.00    | 110.28 AV               |                |             | 1.11 V             | 347                  | 79.11            | 31.17                    |
| 2   | 4874.00     | 62.05 PK                | 74.00          | -11.95      | 1.03 V             | 347                  | 25.51            | 36.54                    |
| 2   | 4874.00     | 49.19 AV                | 54.00          | -4.81       | 1.03 V             | 347                  | 12.65            | 36.54                    |
| 3   | 9748.00     | 54.35 PK                | 74.00          | -19.65      | 1.20 V             | 104                  | 9.08             | 45.27                    |
| 3   | 9748.00     | 45.79 AV                | 54.00          | -8.21       | 1.20 V             | 104                  | 0.52             | 45.27                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



|                        |   |                                 |                            |
|------------------------|---|---------------------------------|----------------------------|
| <b>EUT</b>             | Indoor 11g 54Mbps Building to Building Bridge | <b>MEASUREMENT DETAIL</b>       |                            |
| <b>MODEL</b>           | WL-565  | <b>FREQUENCY RANGE</b>          | 1~25 GHz                   |
| <b>CHANNEL</b>         | Channel 11                                    | <b>DETECTOR FUNCTION</b>        | Peak (PK)<br>Average (AV)  |
| <b>MODULATION TYPE</b> | BPSK  | <b>ENVIRONMENTAL CONDITIONS</b> | 22deg. C, 66%RH,<br>991hPa |
| <b>TRANSFER RATE</b>   | 6Mbps   | <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              |
| <b>TEST MODE</b>       | 3   | <b>TESTED BY</b>                | Match Tsui                 |

**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   | *2462.00    | 94.45 PK                |                |             | 1.11 H             | 120                  | 63.17            | 31.28                    |
| 1   | *2462.00    | 85.16 AV                |                |             | 1.11 H             | 120                  | 53.88            | 31.28                    |
| 2   | 2483.50     | 52.80 PK                | 74.00          | -21.20      | 1.11 H             | 120                  | 21.43            | 31.37                    |
| 2   | 2483.50     | 44.78 AV                | 54.00          | -9.22       | 1.11 H             | 120                  | 13.41            | 31.37                    |
| 3   | 4924.00     | 51.63 PK                | 74.00          | -22.37      | 1.01 H             | 11                   | 14.97            | 36.66                    |
| 3   | 4924.00     | 47.10 AV                | 54.00          | -6.90       | 1.01 H             | 11                   | 10.44            | 36.66                    |
| 4   | 9848.00     | 47.80 PK                | 74.00          | -26.20      | 1.04 H             | 360                  | 2.39             | 45.41                    |
| 4   | 9848.00     | 39.50 AV                | 54.00          | -14.50      | 1.04 H             | 360                  | -5.91            | 45.41                    |

**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   | *2462.00    | 110.40 PK               |                |             | 1.18 V             | 346                  | 79.12            | 31.28                    |
| 1   | *2462.00    | 101.17 AV               |                |             | 1.18 V             | 346                  | 69.89            | 31.28                    |
| 2   | 2483.50     | 64.10 PK                | 74.00          | -9.90       | 1.18 V             | 346                  | 32.73            | 31.37                    |
| 2   | 2483.50     | 51.57 AV                | 54.00          | -2.43       | 1.18 V             | 346                  | 20.20            | 31.37                    |
| 3   | 4924.00     | 49.97 PK                | 74.00          | -24.03      | 1.00 V             | 108                  | 13.31            | 36.66                    |
| 3   | 4924.00     | 46.06 AV                | 54.00          | -7.94       | 1.00 V             | 108                  | 9.40             | 36.66                    |
| 4   | 9848.00     | 54.69 PK                | 74.00          | -19.31      | 1.17 V             | 284                  | 9.28             | 45.41                    |
| 4   | 9848.00     | 45.62 AV                | 54.00          | -8.38       | 1.17 V             | 284                  | 0.21             | 45.41                    |

- 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)
  3. The other emission levels were very low against the limit.
  4. Margin value = Emission level – Limit value.
  5. “ \* “ : Fundamental frequency.



### 4.3 BAND EDGES MEASUREMENT

#### 4.3.1 LIMITS OF BAND EDGES MEASUREMENT

Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

#### 4.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSEK30    | 100049     | Aug. 12, 2005    |

**NOTE:**

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

#### 4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 1MHz and 10Hz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz ; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.3.5 EUT OPERATING CONDITION

Same as Item 4.3.6

#### 4.3.6 TEST RESULTS

The spectrum plots are attached on the following 12 images. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(d).

#### **802.11b DSSS modulation**

##### **Antenna type: High gain omni antenna**

**NOTE 1:** The band edge emission plot on page 68 show 54.45dBc delta between carrier maximum power and local maximum emission in restrict band (2.3875GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 107.95dBuV/m (Peak), so the maximum field strength in restrict band is  $107.95 - 54.45 = 53.50$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 68 show 56.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.3871GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 100.14dBuV/m (Average), so the maximum field strength in restrict band is  $100.14 - 56.23 = 43.91$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on the page 69 show 53.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.4861GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.43dBuV/m (Peak), so the maximum field strength in restrict band is  $106.43 - 53.03 = 53.40$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 70 show 56.60dBc delta between carrier maximum power and local maximum emission in restrict band (2.5000GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 98.44dBuV/m (Average), so the maximum field strength in restrict band is  $98.44 - 56.60 = 41.84$ dBuV/m which is under 54dBuV/m limit.

**Antenna type: Medium gain panel antenna**

**NOTE 1:** The band edge emission plot on page 68 show 54.45dBc delta between carrier maximum power and local maximum emission in restrict band (2.3875GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.47dBuV/m (Peak), so the maximum field strength in restrict band is  $111.47 - 54.45 = 57.02$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 68 show 56.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.3871GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.94dBuV/m (Average), so the maximum field strength in restrict band is  $103.94 - 56.23 = 47.71$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on the page 69 show 53.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.4861GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.73dBuV/m (Peak), so the maximum field strength in restrict band is  $109.73 - 53.03 = 56.70$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 70 show 56.60dBc delta between carrier maximum power and local maximum emission in restrict band (2.5000GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.78dBuV/m (Average), so the maximum field strength in restrict band is  $101.78 - 56.60 = 45.18$ dBuV/m which is under 54dBuV/m limit.

**Antenna type: High gain panel antenna**

**NOTE 1:** The band edge emission plot on page 68 show 54.45dBc delta between carrier maximum power and local maximum emission in restrict band (2.3875GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 117.12dBuV/m (Peak), so the maximum field strength in restrict band is  $117.12 - 54.45 = 62.67$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 68 show 56.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.3871GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.15dBuV/m (Average), so the maximum field strength in restrict band is  $109.15 - 56.23 = 52.92$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on the page 69 show 53.03dBc delta between carrier maximum power and local maximum emission in restrict band (2.4861GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 117.36dBuV/m (Peak), so the maximum field strength in restrict band is  $117.36 - 53.03 = 64.33$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the page 70 show 56.60dBc delta between carrier maximum power and local maximum emission in restrict band (2.5000GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.45dBuV/m (Average), so the maximum field strength in restrict band is  $109.45 - 56.60 = 52.85$ dBuV/m which is under 54dBuV/m limit.



**802.11g OFDM modulation****Antenna type: High gain omni antenna**

**NOTE 1:** The band edge emission plot on page 71 show 47.16dBc delta between carrier maximum power and local maximum emission in restrict band (2.3859GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.70dBuV/m (Peak), so the maximum field strength in restrict band is  $102.70 - 47.16 = 55.54$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 71 show 50.58dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 93.92dBuV/m (Average), so the maximum field strength in restrict band is  $93.92 - 50.58 = 43.34$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on page 72 show 46.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.4981GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 102.50dBuV/m (Peak), so the maximum field strength in restrict band is  $102.50 - 46.23 = 56.27$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 73 show 48.84dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 92.70dBuV/m (Average), so the maximum field strength in restrict band is  $92.70 - 48.84 = 43.86$ dBuV/m which is under 54dBuV/m limit.

**Antenna type: Medium gain panel antenna**

**NOTE 1:** The band edge emission plot on page 71 show 47.16dBc delta between carrier maximum power and local maximum emission in restrict band (2.3859GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 105.18dBuV/m (Peak), so the maximum field strength in restrict band is  $105.18 - 47.16 = 58.02$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 71 show 50.58dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 96.06dBuV/m (Average), so the maximum field strength in restrict band is  $96.06 - 50.58 = 45.48$ dBuV/m which is under 54dBuV/m limit.

**NOTE 2:** The band edge emission plot on page 72 show 46.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.4981GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 105.56dBuV/m (Peak), so the maximum field strength in restrict band is  $105.56 - 46.23 = 59.33$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 73 show 48.84dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 96.36dBuV/m (Average), so the maximum field strength in restrict band is  $96.36 - 48.84 = 47.52$ dBuV/m which is under 54dBuV/m limit.

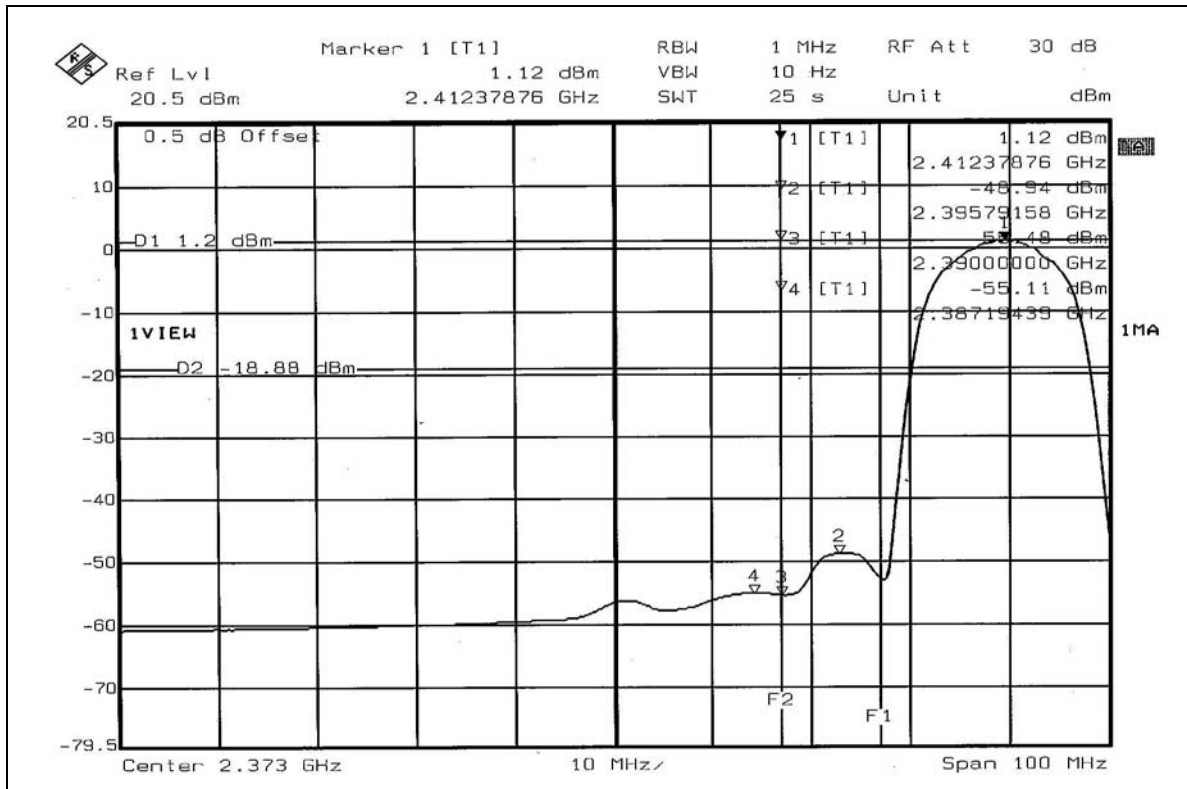
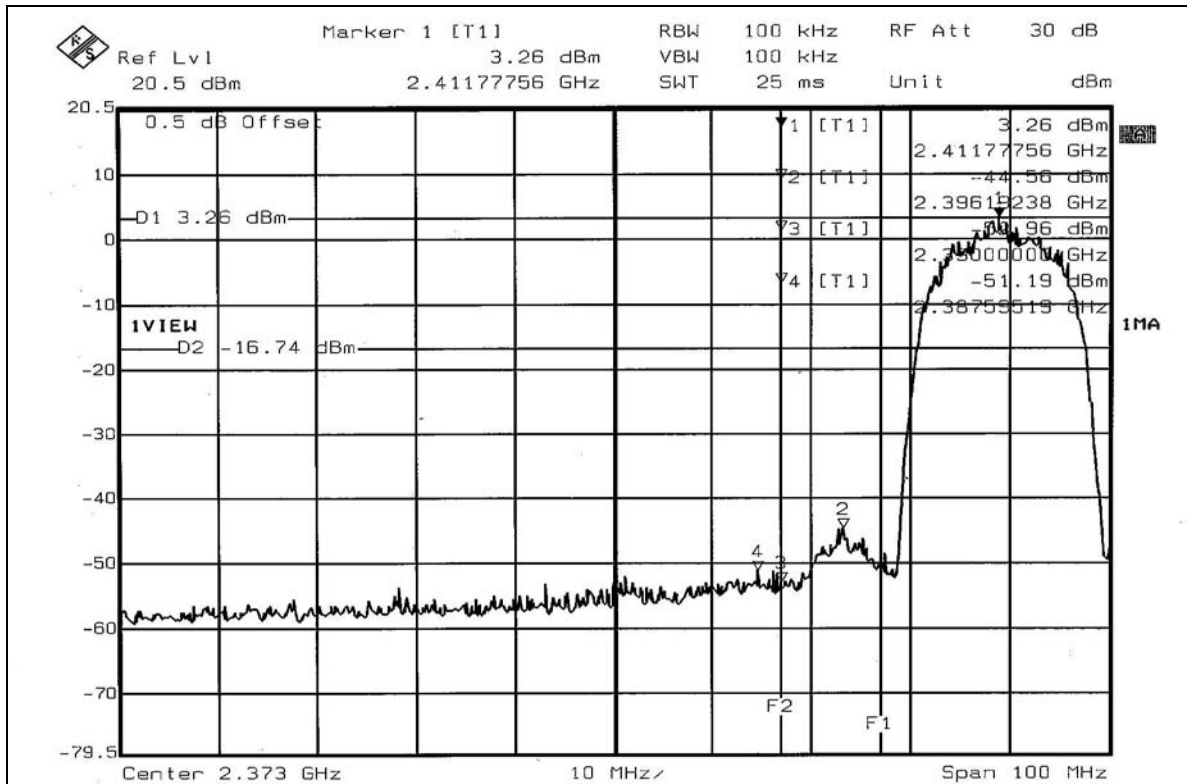
**Antenna type: High gain panel antenna**

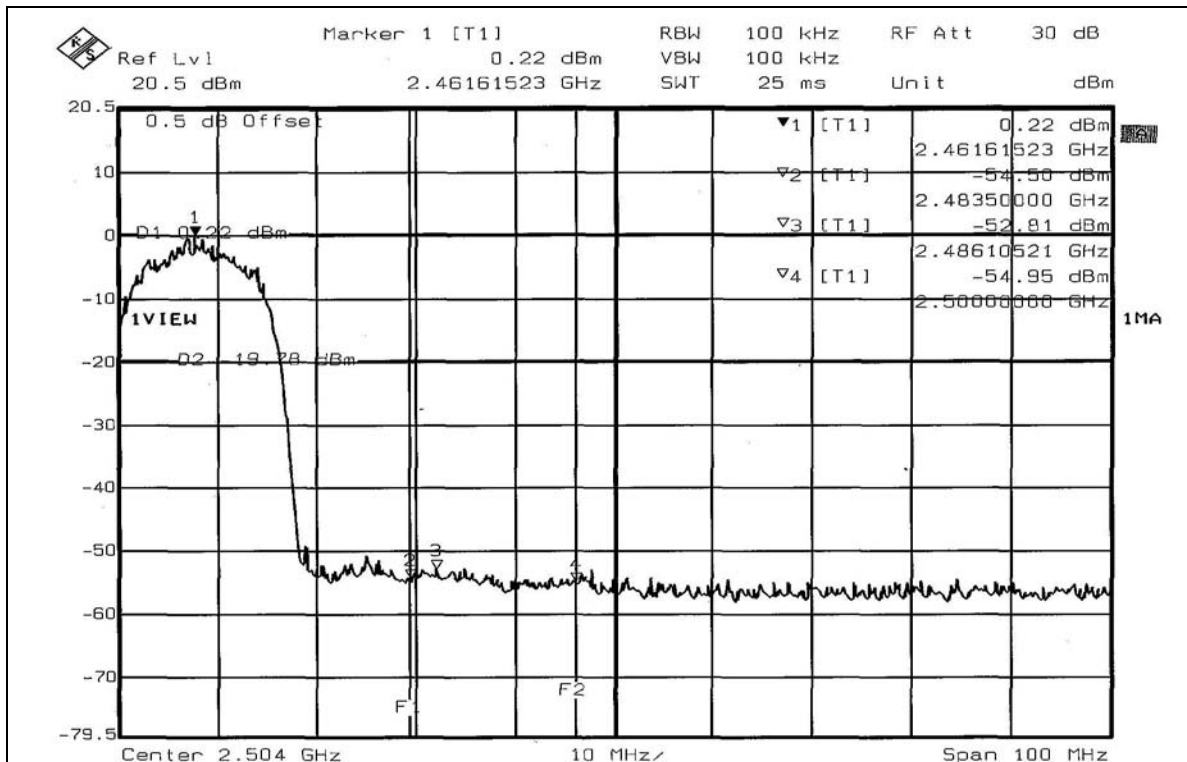
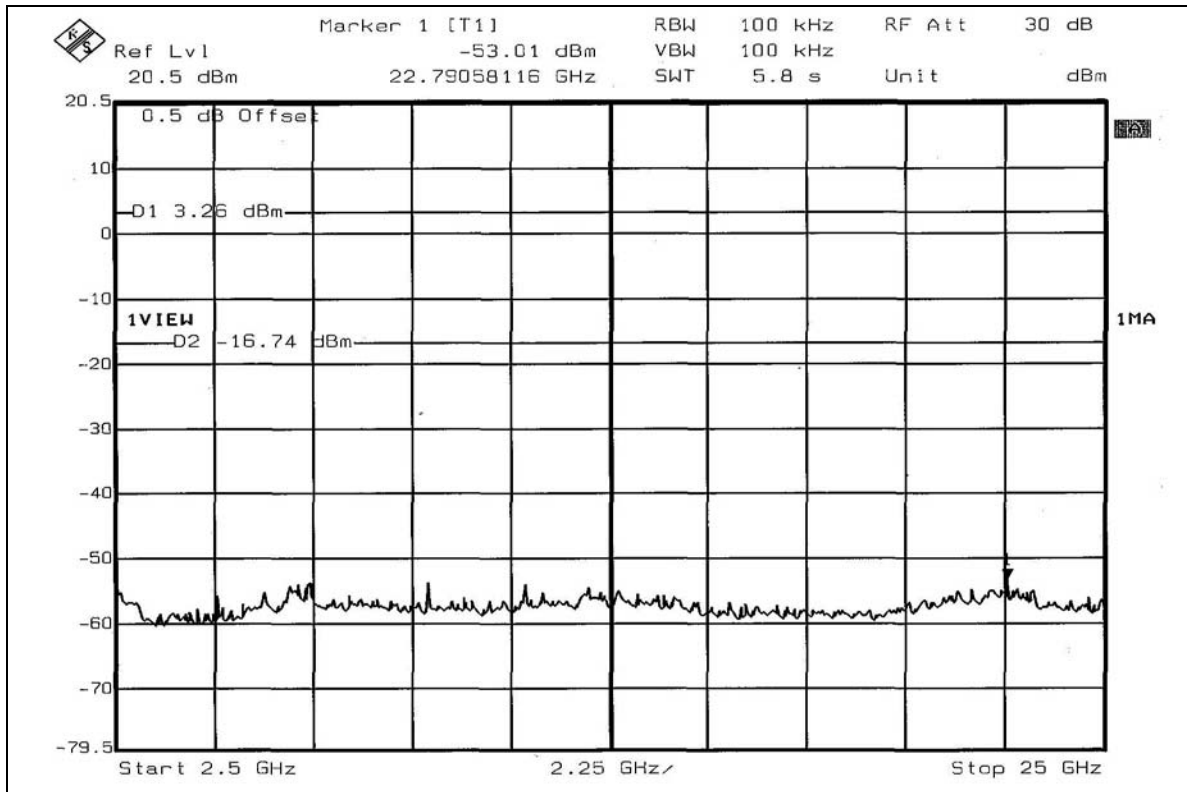
**NOTE 1:** The band edge emission plot on page 71 show 47.16dBc delta between carrier maximum power and local maximum emission in restrict band (2.3859GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.41dBuV/m (Peak), so the maximum field strength in restrict band is  $111.41 - 47.16 = 64.25$ dBuV/m which is under 74dBuV/m limit.

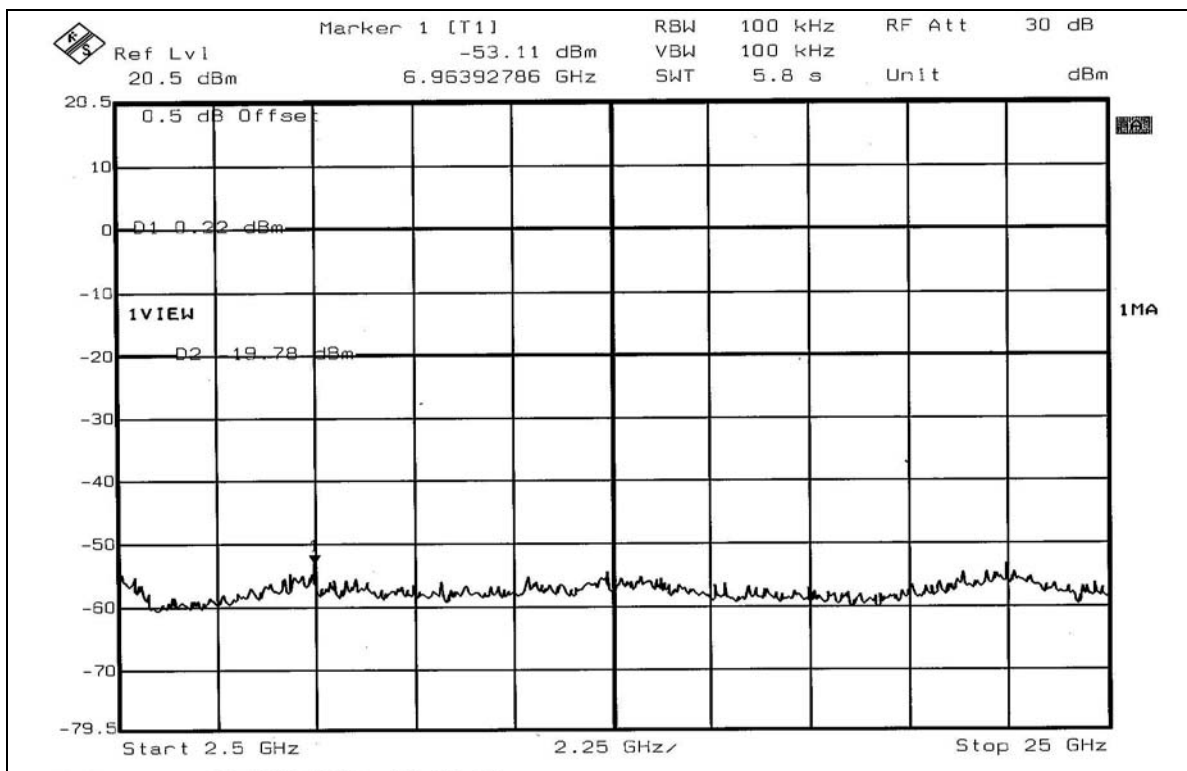
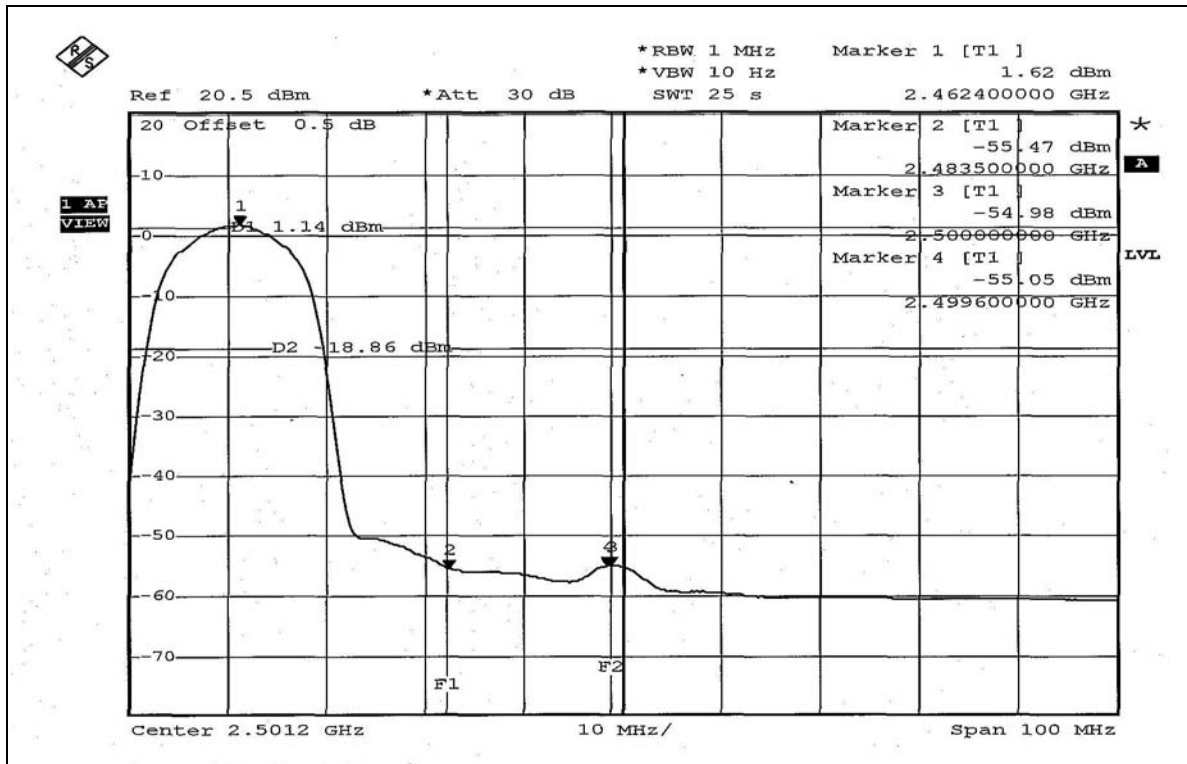
The band edge emission plot on page 71 show 50.58dBc delta between carrier maximum power and local maximum emission in restrict band (2.3900GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.05dBuV/m (Average), so the maximum field strength in restrict band is  $102.05 - 50.58 = 51.47$ dBuV/m which is under 54dBuV/m limit.

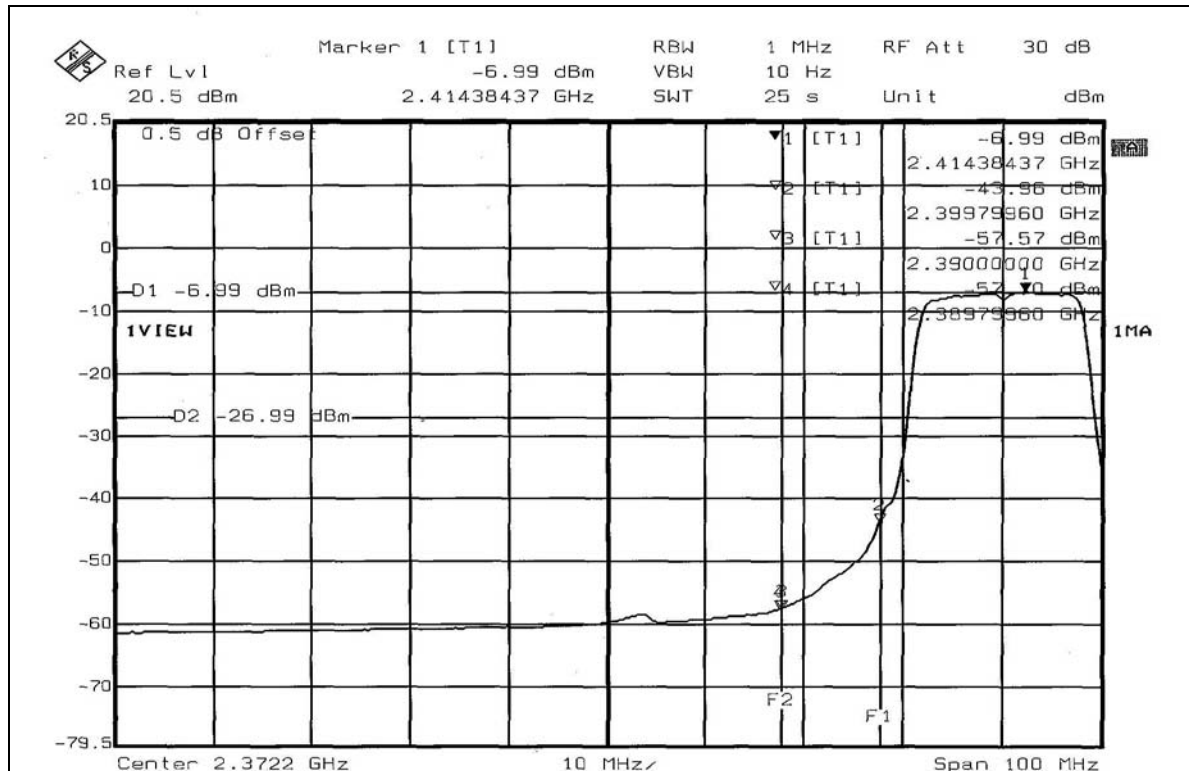
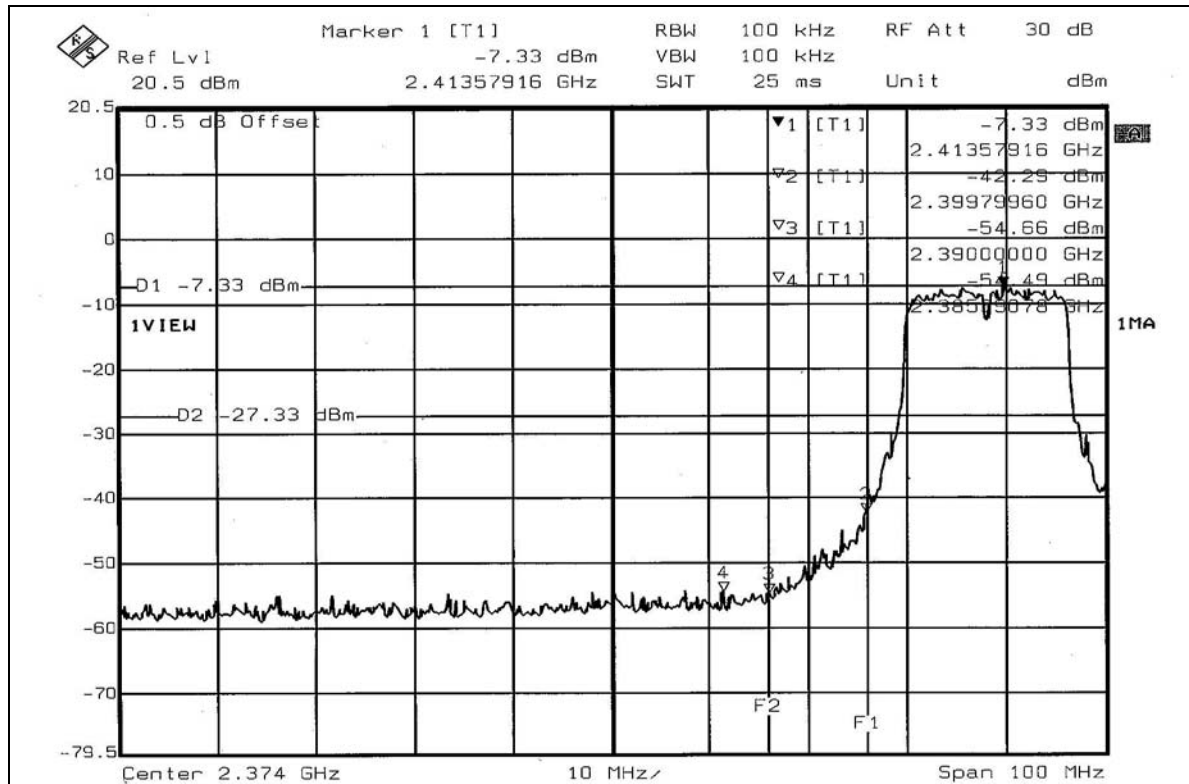
**NOTE 2:** The band edge emission plot on page 72 show 46.23dBc delta between carrier maximum power and local maximum emission in restrict band (2.4981GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 110.40dBuV/m (Peak), so the maximum field strength in restrict band is  $110.40 - 46.23 = 64.17$ dBuV/m which is under 74dBuV/m limit.

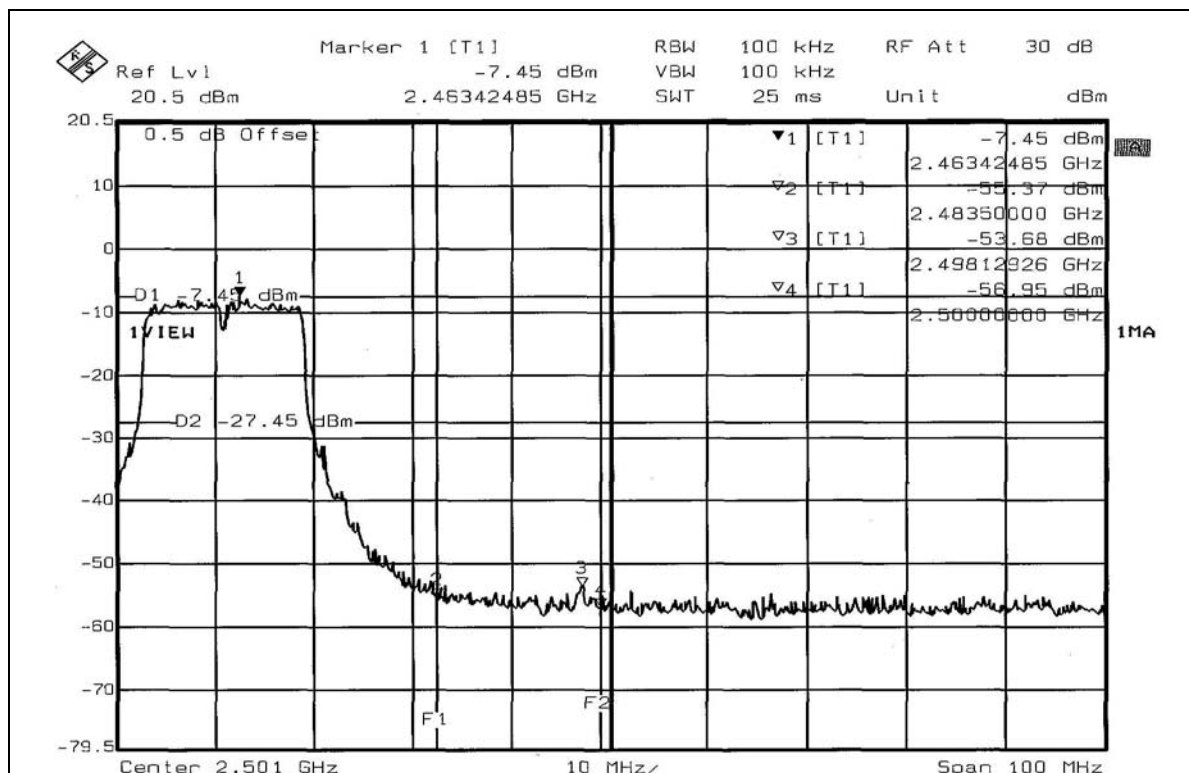
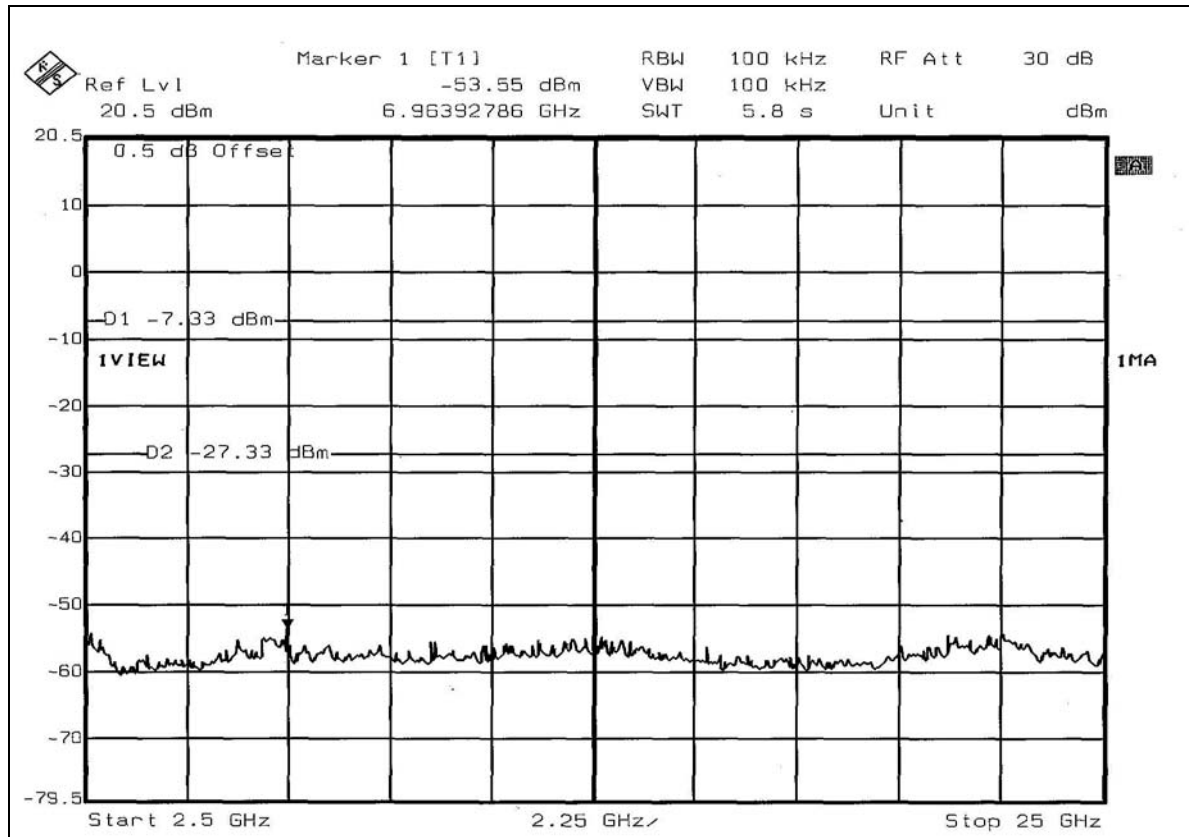
The band edge emission plot on page 73 show 48.84dBc delta between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.17dBuV/m (Average), so the maximum field strength in restrict band is  $101.17 - 48.84 = 52.33$ dBuV/m which is under 54dBuV/m limit.



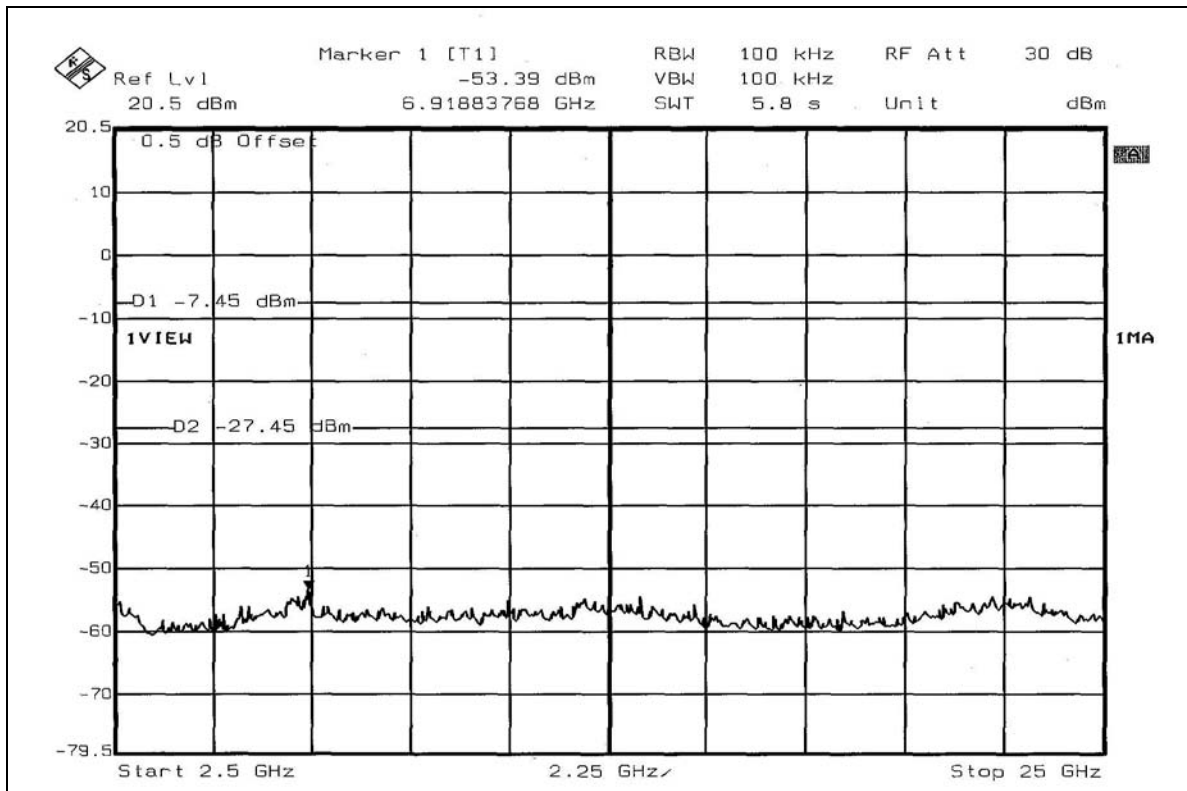
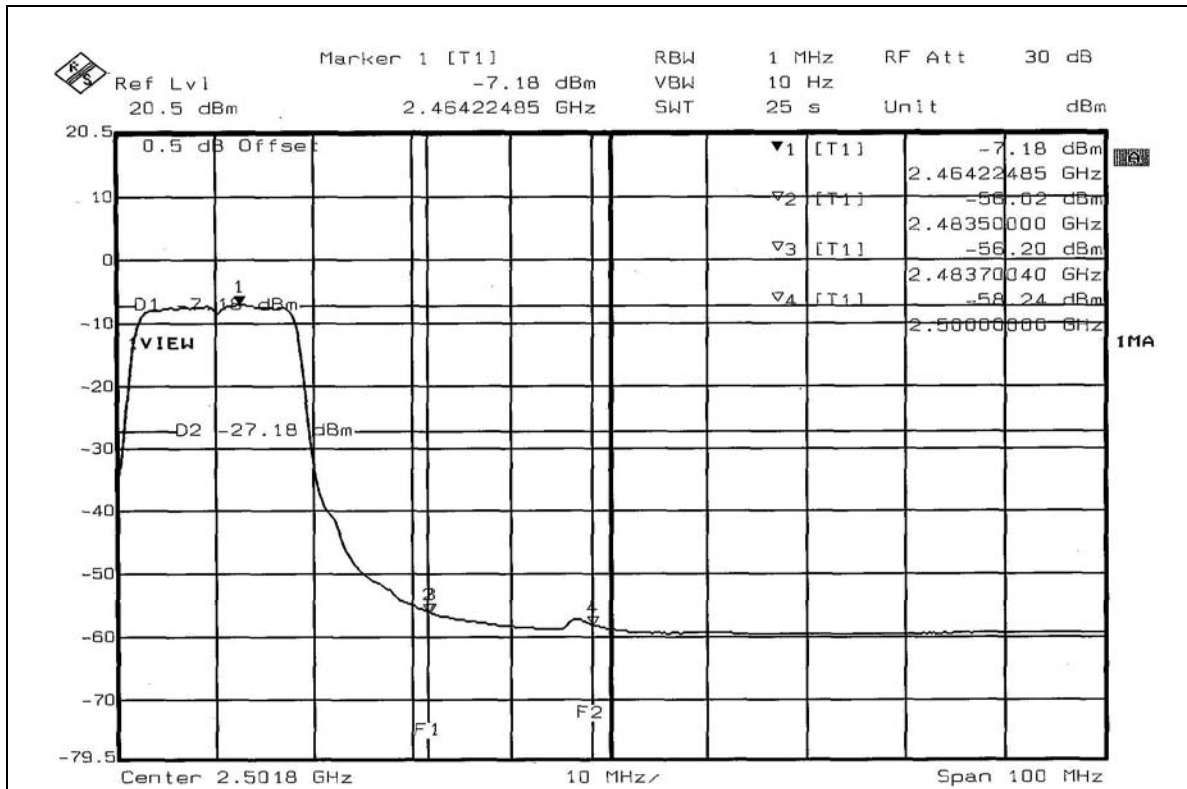












## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

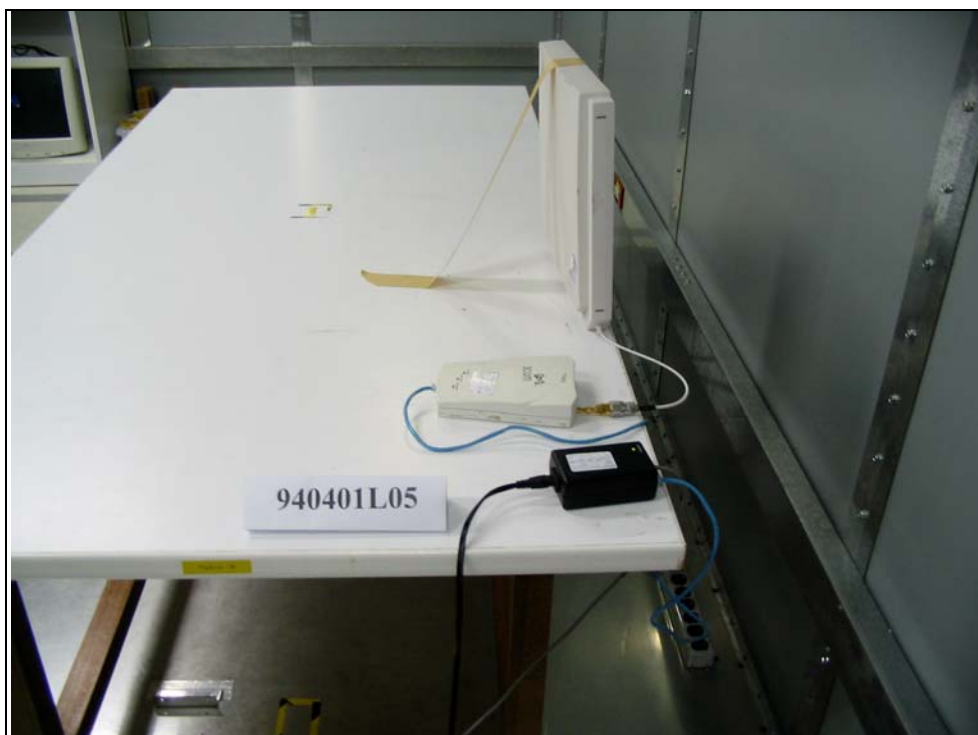
### CONDUCTED EMISSION TEST POE 1 (Test Mode 1)



POE 1 (Test Mode 2)



POE 1 (Test Mode 3)



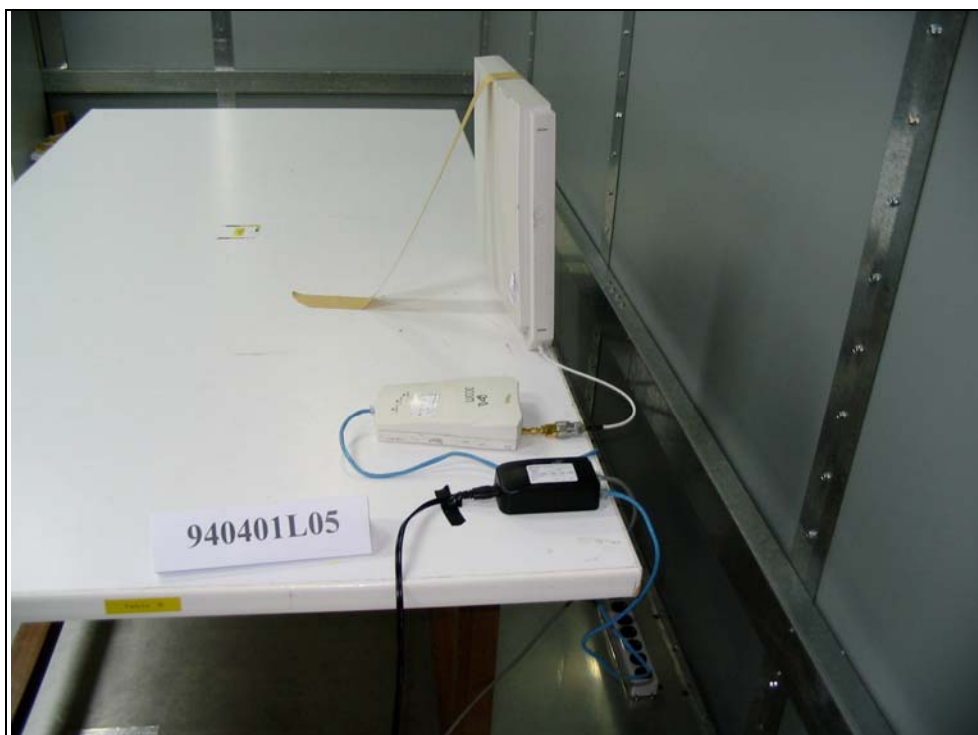
POE 2 (Test Mode 1)



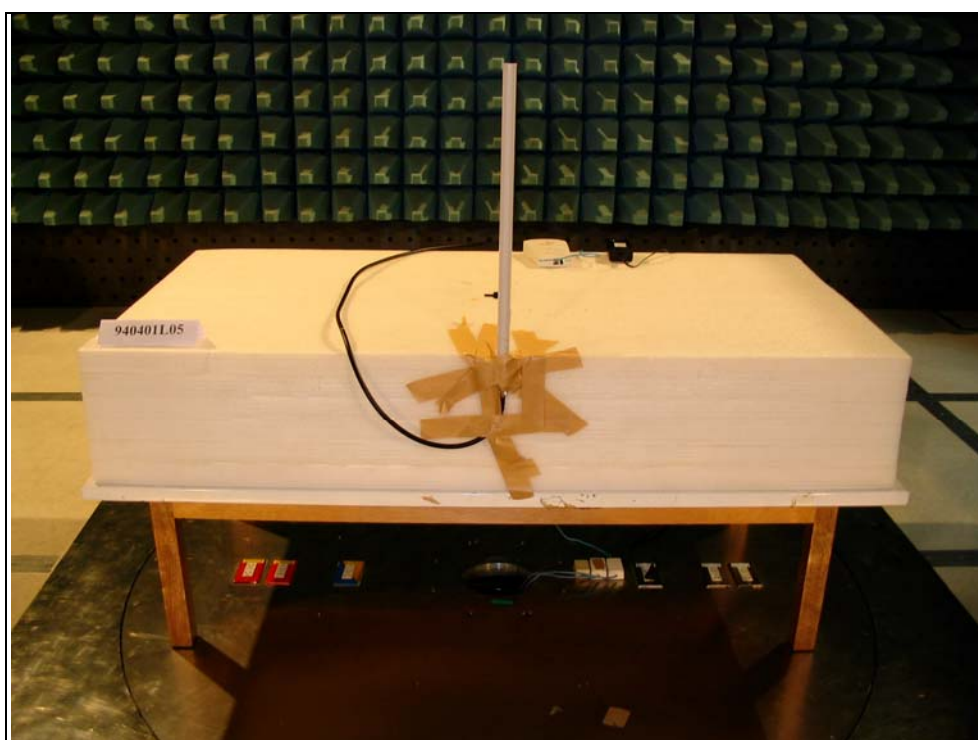
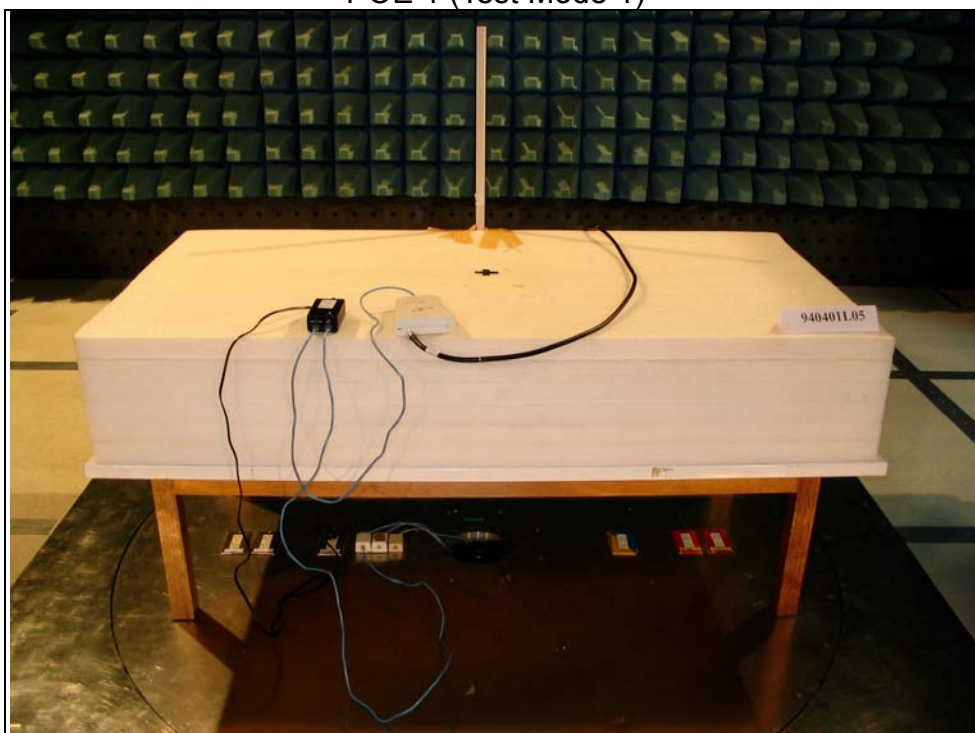
POE 2 (Test Mode 2)



POE 2 (Test Mode 3)

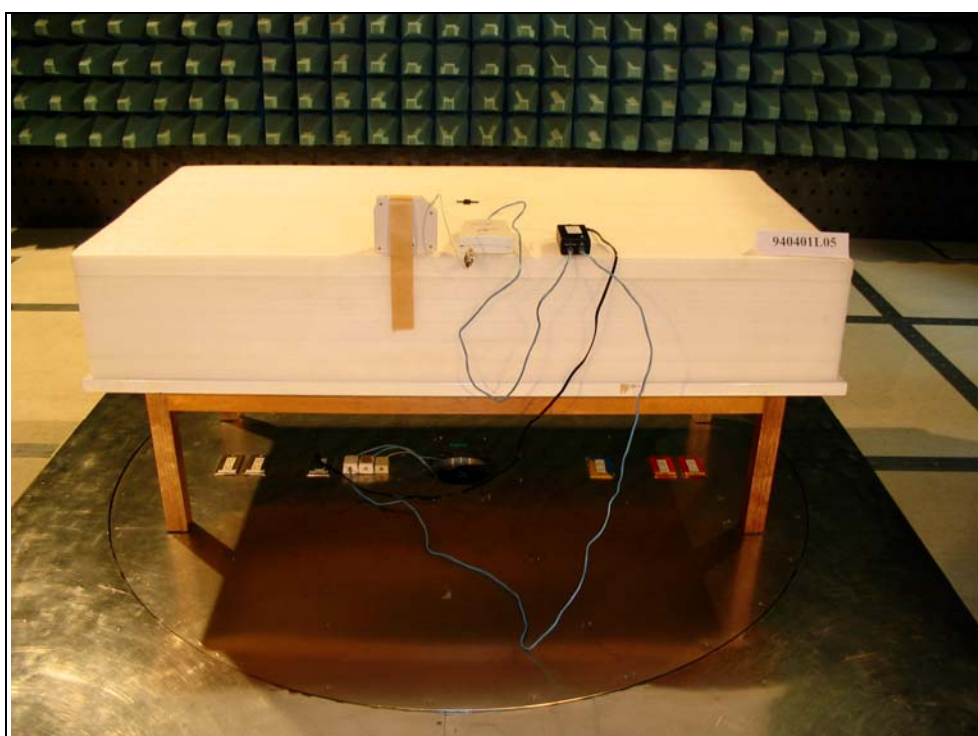
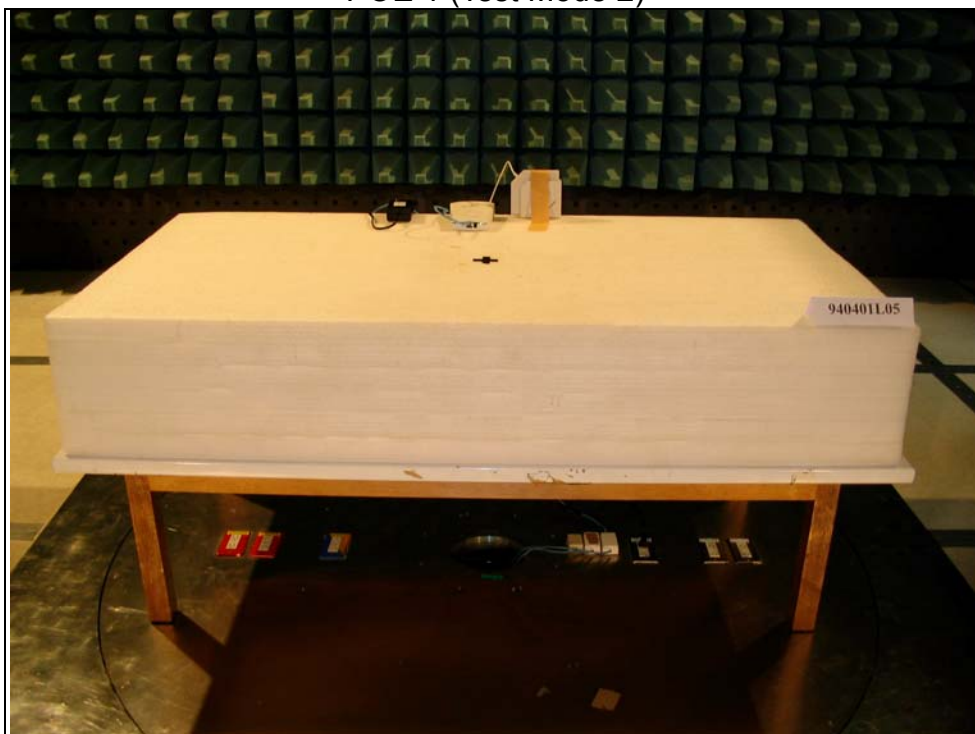


### RADIATED EMISSION TEST POE 1 (Test Mode 1)

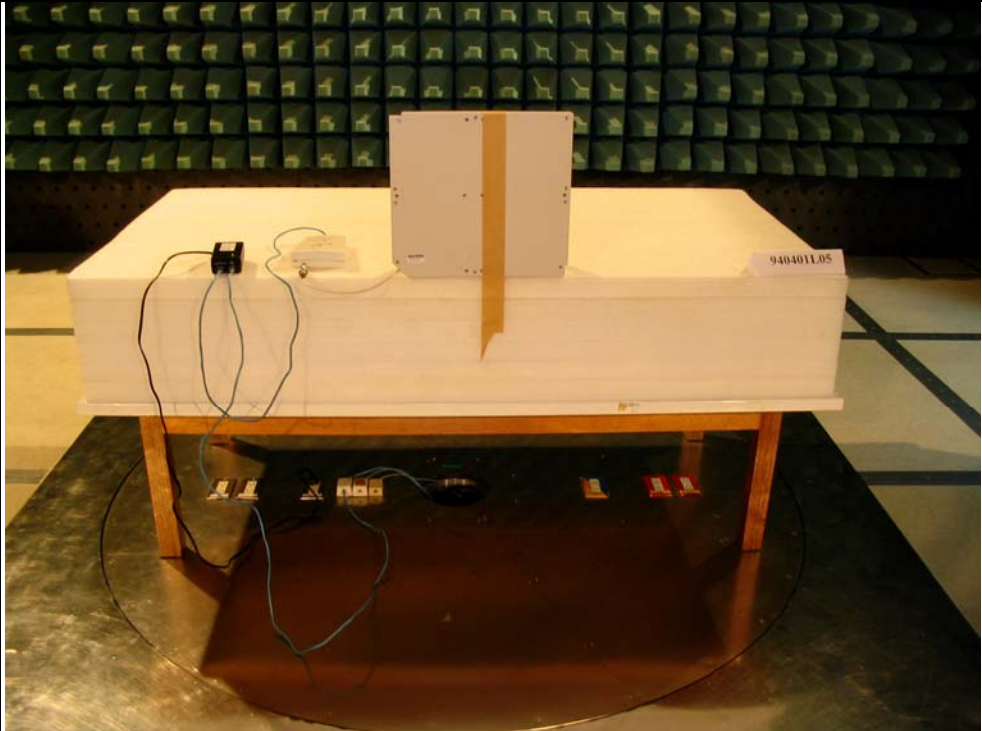
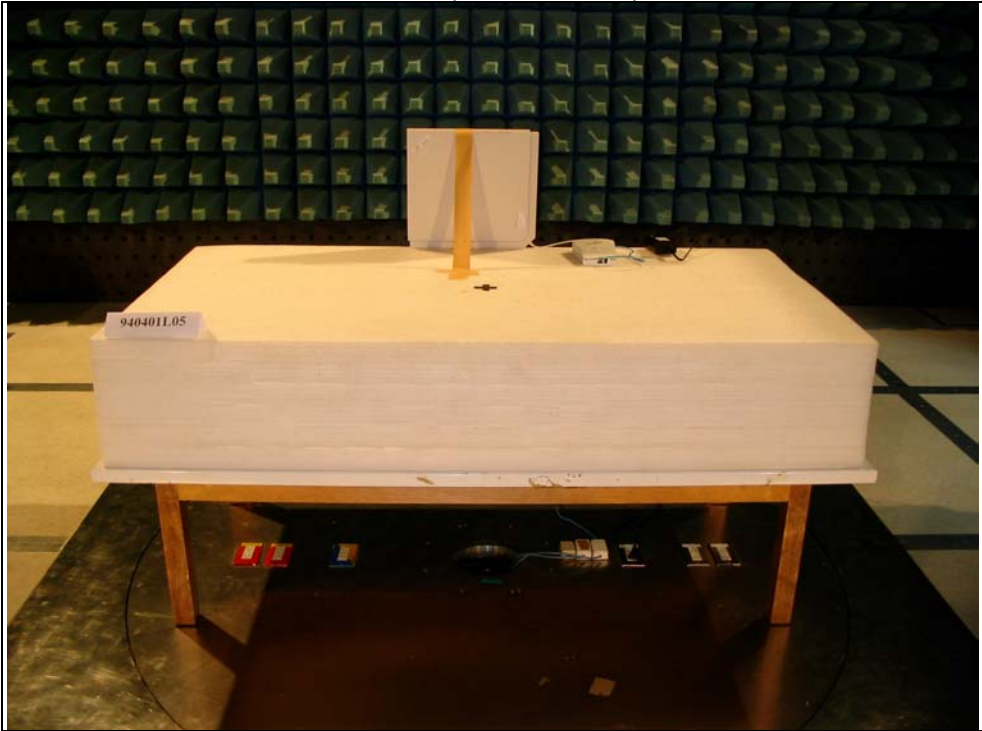




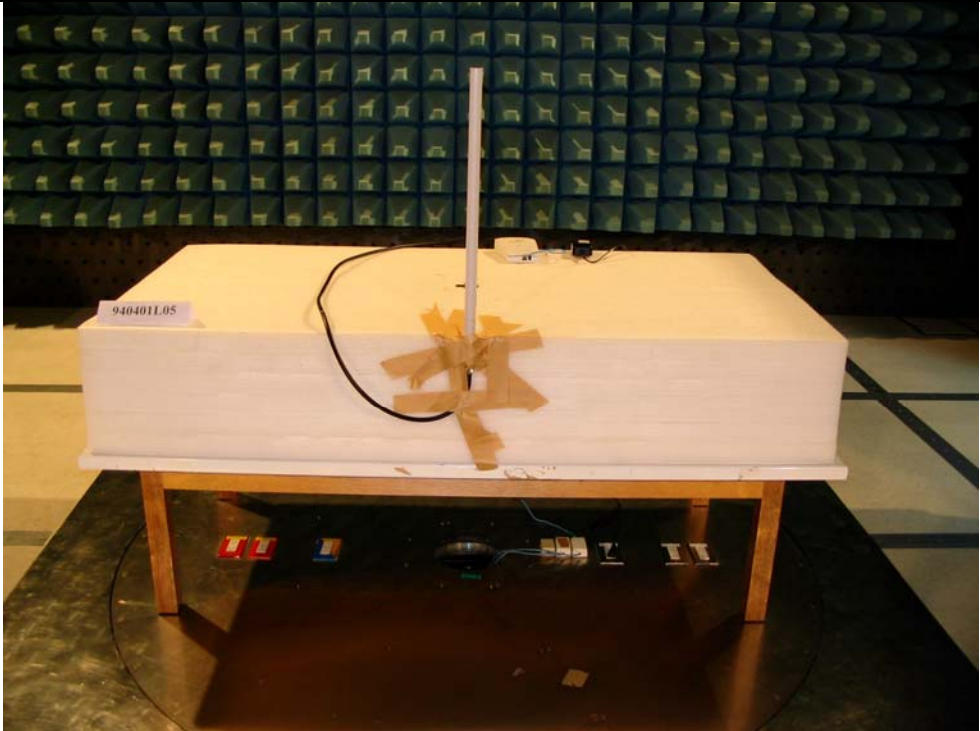
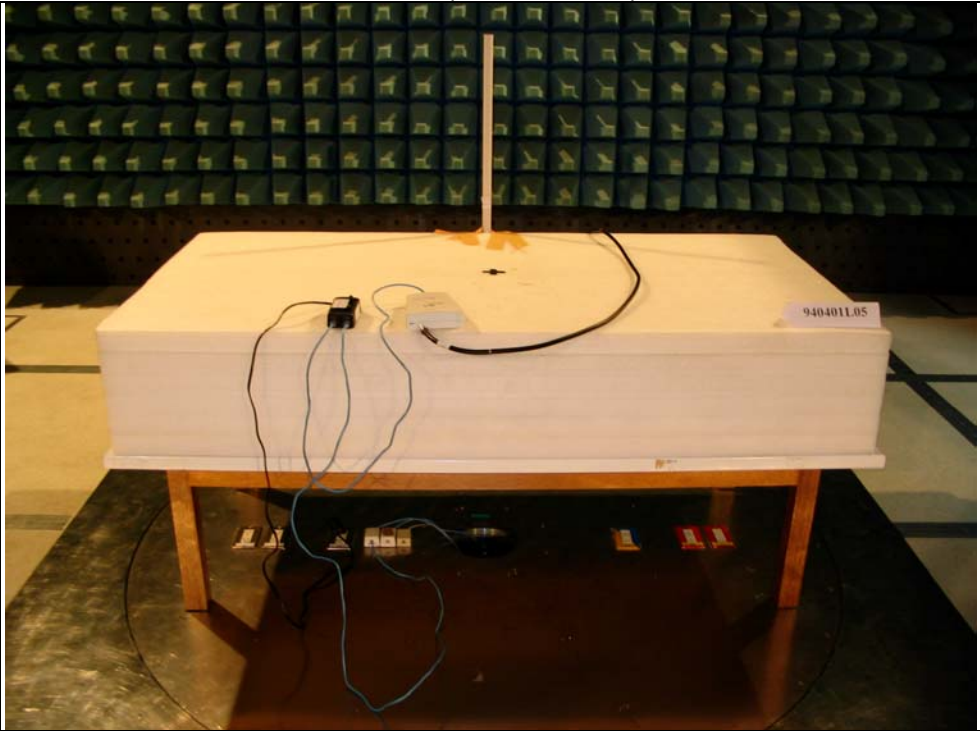
POE 1 (Test Mode 2)



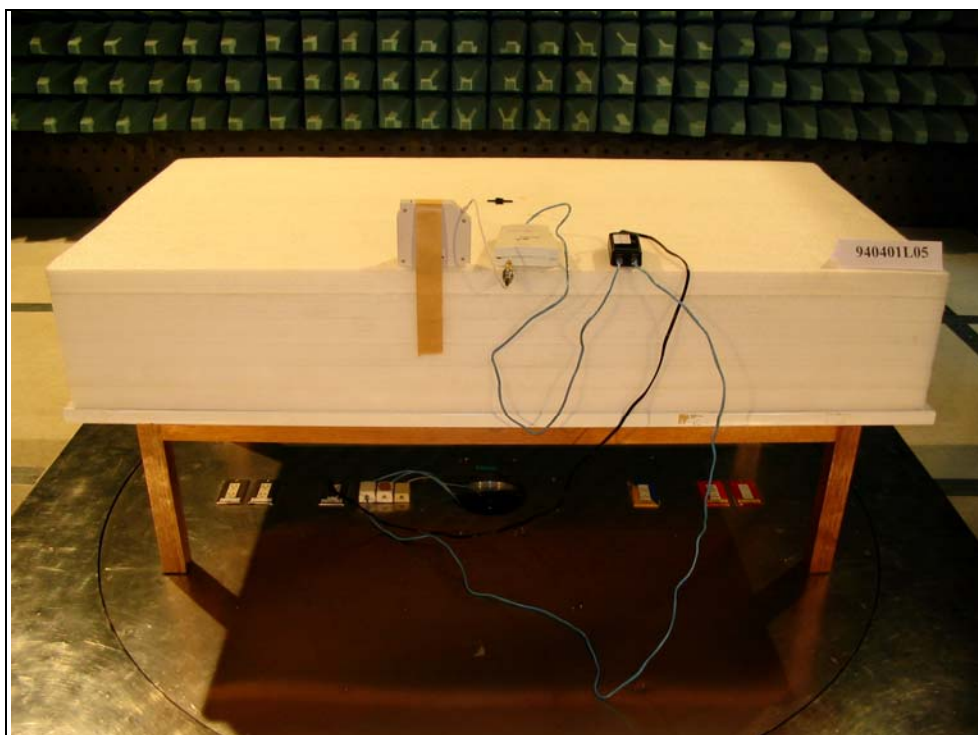
POE 1 (Test Mode 3)



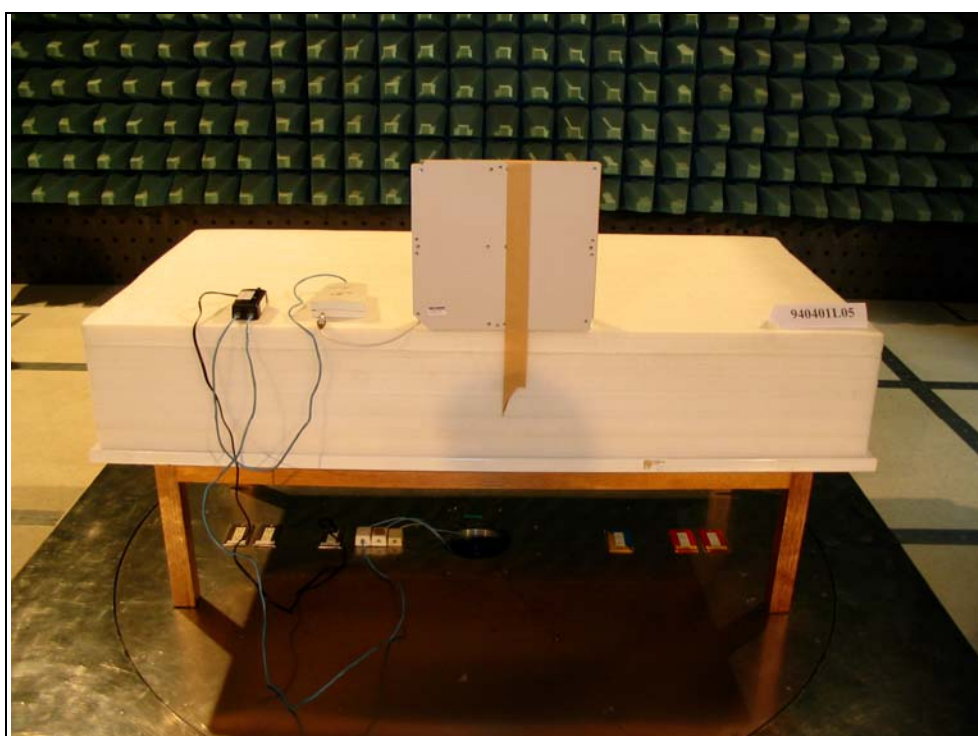
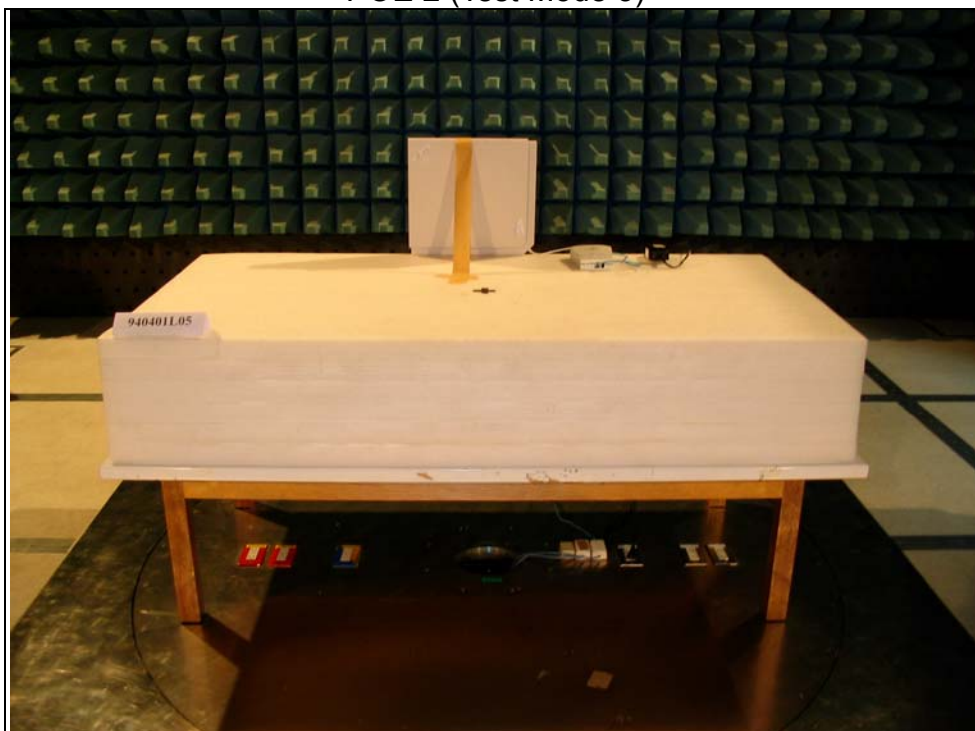
POE 2 (Test Mode 1)



POE 2 (Test Mode 2)



POE 2 (Test Mode 3)





## 6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

|                    |                       |
|--------------------|-----------------------|
| <b>USA</b>         | FCC, NVLAP, UL , A2LA |
| <b>Germany</b>     | TUV Rheinland         |
| <b>Japan</b>       | VCCI                  |
| <b>Norway</b>      | NEMKO                 |
| <b>Canada</b>      | INDUSTRY CANADA , CSA |
| <b>R.O.C.</b>      | CNLA, BSMI, DGT       |
| <b>Netherlands</b> | Telefication          |
| <b>Singapore</b>   | PSB , GOST-ASIA(MOU)  |
| <b>Russia</b>      | CERTIS(MOU)           |

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

[www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml). If you have any comments, please feel free to contact us at the following:

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Fax: 886-3-3270892

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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