# FCC TEST REPORT

**REPORT NO.:** RF931214H02
**MODEL NO.:** DWL-3200AP
**RECEIVED:** Dec. 16, 2004
**TESTED:** Dec. 23, 2004 to Jan. 15, 2005
**ISSUED:** Jan. 18, 2005

**APPLICANT:** D-LINK Corporation

**ADDRESS:** No.8, Li-shing Road VII, Science-based Industrial Park, Hsinchu, Taiwan.

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien, Taiwan, R.O.C.



0536
ILAC MRA

No. 2177-01

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# 1 CERTIFICATION

| | |
|---|---|
| **PRODUCT :** | IEEE 802.11g Wireless Access Point |
| **BRAND NAME :** | D-LINK |
| **MODEL NO. :** | DWL-3200AP |
| **TESTED:** | Dec. 23, 2004 to Jan. 15, 2005 |
| **APPLICANT :** | D-LINK Corporation |
| **TEST ITEM:** | ENGINEERING SAMPLE |
| **STANDARDS :** | 47 CFR Part 15, Subpart C (Section 15.247), ANSI C63.4-2003 |

The above equipment (Model: DWL-3200AP) 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 :** _____ , **DATE:** Jan. 18, 2005
( Midoli Peng )

**TECHNICAL ACCEPTANCE :** _____ , **DATE:** Jan. 18, 2005
Responsible for RF
( Hank Chung )

**APPROVED BY :** _____ , **DATE:** Jan. 18, 2005
( Eric Lin, Manager )

# 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: 47 CFR Part 15, Subpart C | | | |
|---|---|---|---|
| **Standard Section** | **Test Type and Limit** | **Result** | **REMARK** |
| 15.207 | AC Power Conducted Emission | PASS | Meet the requirement of limit<br>Minimum passing margin is –10.63 dB at 6.04 MHz |
| 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(c) | Transmitter Radiated Emissions<br>Limit: Table 15.209 | PASS | Meet the requirement of limit<br>Minimum passing margin is –1.2dB at 2390.00 MHz |
| 15.247(d) | Power Spectral Density<br>Limit: max. 8dBm | PASS | Meet the requirement of limit |
| 15.247(c) | Band Edge Measurement<br>Limit: 20 dB less than the peak value of fundamental frequency | PASS | Meet the requirement of limit |

# 3 GENERAL INFORMATION

## 3.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| **PRODUCT** | IEEE 802.11g Wireless Access Point |
| **MODEL NO.** | DWL-3200AP |
| **POWER SUPPLY** | DC 48V from power adapter or POE |
| **MODULATION TYPE** | CCK, OFDM, DBPSK, DQPSK |
| **RADIO TECHNOLOGY** | DSSS, OFDM |
| **TRANSFER RATE** | 1/2/5.5/6/9/11/12/18/24/36/48/54Mbps<br>(Turbo mode at channel 6: up to 108Mbps) |
| **FREQUENCY RANGE** | 2412MHz ~ 2462MHz |
| **NUMBER OF CHANNEL** | 11 |
| **OUTPUT POWER** | 11b: 22.10dBm<br>11g: 23.00dBm |
| **ANTENNA TYPE** | Please see note 4 on next page |
| **DATA CABLE** | NA |
| **I/O PORTS** | RJ-45 port *1 |
| **ASSOCIATED DEVICES** | NA |

**NOTE:**

1. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps.

2. The EUT complies with IEEE 802.11g draft standards, and backwards compatible with IEEE 802.11b products.

3. The EUT was powered either adapter or POE (Power Over Ethernet):

| **Adapter 1:** | |
|---|---|
| **Brand:** | Bothhand Enterprise Inc. |
| **Model No.:** | SA06L48-V |
| **Input power :** | 100-240V~0.6A 50-60Hz |
| **Output power :** | 48V / 0.4A<br>DC output cable(unshielded, 1.8m with one core) |

| **Adapter 2:** | |
|---|---|
| **Brand:** | JENTEC TECHNOLOGY CO.,LTD. |
| **Model No.:** | JTA0406B |
| **Input power :** | 100~240Vac/0.6A 50~60Hz |
| **Output power :** | 48V/0.4A<br>DC output cable(unshielded, 1.8m with one core) |

| **POE:** | |
|---|---|
| **Brand:** | BASE UNIT |
| **Model No.:** | EBU-101-T1 |
| **Input power :** | 100-240V~0.6A,50~60Hz |
| **Output power :** | 48V===0.4A |
| Note: Only for test not for sale. | |

4. The EUT has two antenna ports, one port only has Rx function, and the other port has Tx function. There are ten antennas provided to this EUT, please refer to the following table:

| No. | Model | Antenna Type | Antenna Connector | Gain (dBi) | Cable loss(dB) |
|---|---|---|---|---|---|
| 1 | ANT24-0500 | Dipole | N female | 5.0 dBi | 2 |
| 2 | SAW0009A1 | Dipole | REVERSE SMA | 5.0 dBi | 0 |
| 3 | DWL-R60AT | MICRO-STRIP PATCH | REVERSE SMA | 7.61 dBi | 0 |
| 4 | SA2-05035G-A5 | Dipole | RP-SMA Plug | 5.0 dBi | 0 |
| 5 | ANT24-0700 | Dipole | REVERSE SMA | 5.89 dBi | 0 |
| 6 | ANT24-0501 | Dipole | N female | 5.0 dBi | 0 |
| 7 | ANT24-0401 | Dipole | SMA Female | 3.5 dBi | 1.5 |
| 8 | ANT24-0400 | Dipole | RP-SMA Plug | 4.0 dBi | 0 |
| 9 | ANT24-1200 | PATCH | SMA Female | 12.0 dBi | 3.2 |
| 10 | ANT24-0600 | 1/2 λ Dipole | SMA Plug Reverse | 5.0 dBi | 0 |

From the above antennas, antenna 3,5,9 and 10 were selected as representative antennas for the test and their data were recorded in this report.

5. The EUT was tested under the following test modes:

| Mode | Antenna Port (Tx) | Antenna Port (Rx) |
|---|---|---|
| 1 | Antenna 3 | Antenna 2 |
| 2 | Antenna 5 | Antenna 5 |
| 3 | Antenna 9 | Antenna 2 |
| 4 | Antenna 10 | Antenna 2 |

6. The above EUT information was declared by the 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 in 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 | | |

**NOTE:**

1. Below 1 GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 1, 6, and 11 were tested individually.
3. Transfer rate, 11Mbps with CCK technique and 6Mbps with OFDM technique, the worst case, were chosen for final test.
4. “Turbo Mode” allows data rates of up to 108Mbps. At data rates higher than 12Mbps the PA gain is reduced to improve signal fidelity. The device was, therefore, tested in turbo mode at the data rate that produced the highest output power for turbo mode (12Mbps).
5. For transmitter & receiver spurious radiation tests (30MHz ~ 1GHz), the EUT was tested with : **1.** adapter 1, **2.** adapter 1+POE, **3.** adapter 2 and **4.** adapter 2+POE .

## 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an IEEE 802.11g Wireless Access Point. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**47 CFR Part 15, Subpart C. (15.247)**
**ANSI C63.4 : 2003**

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

**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 47 CFR 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.

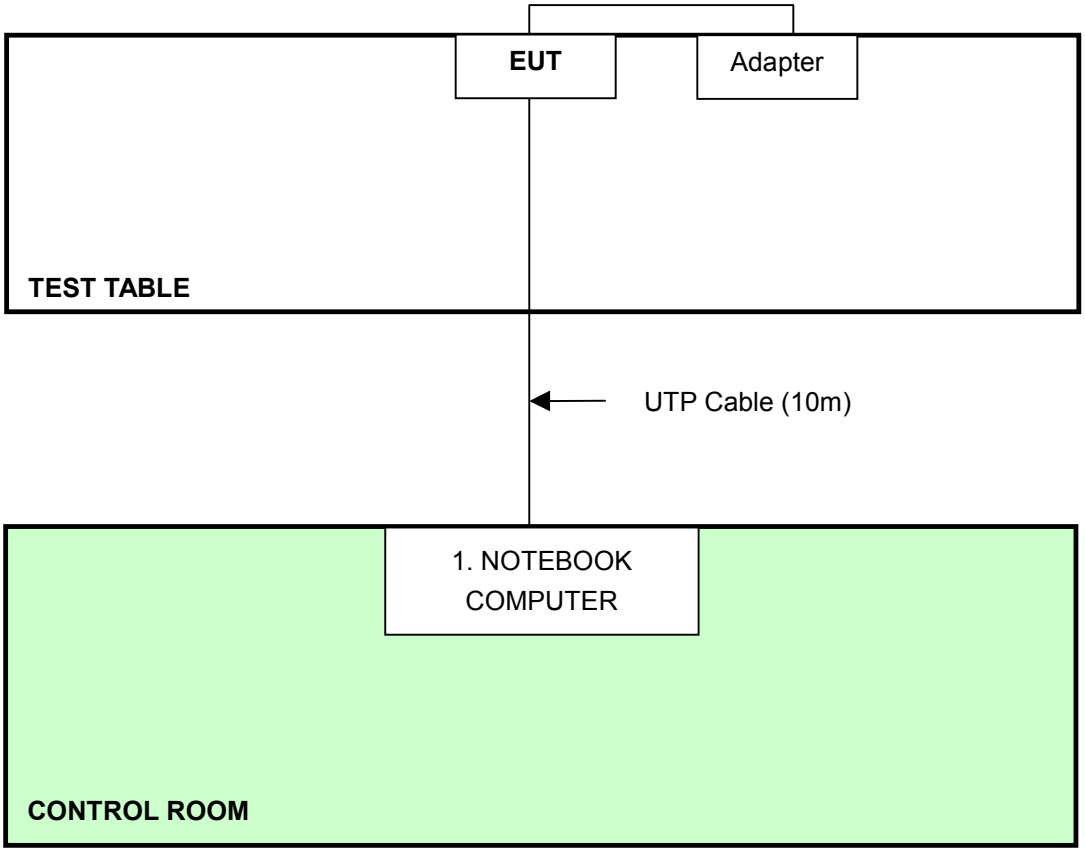
| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|---|---|---|---|---|---|
| 1 | Notebook Computer | Dell | PP01L | TW-09c748-12800-165-3171 | FCC DoC |

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

**NOTE:** All power cords of the above support units are non-shielded (1.8m).

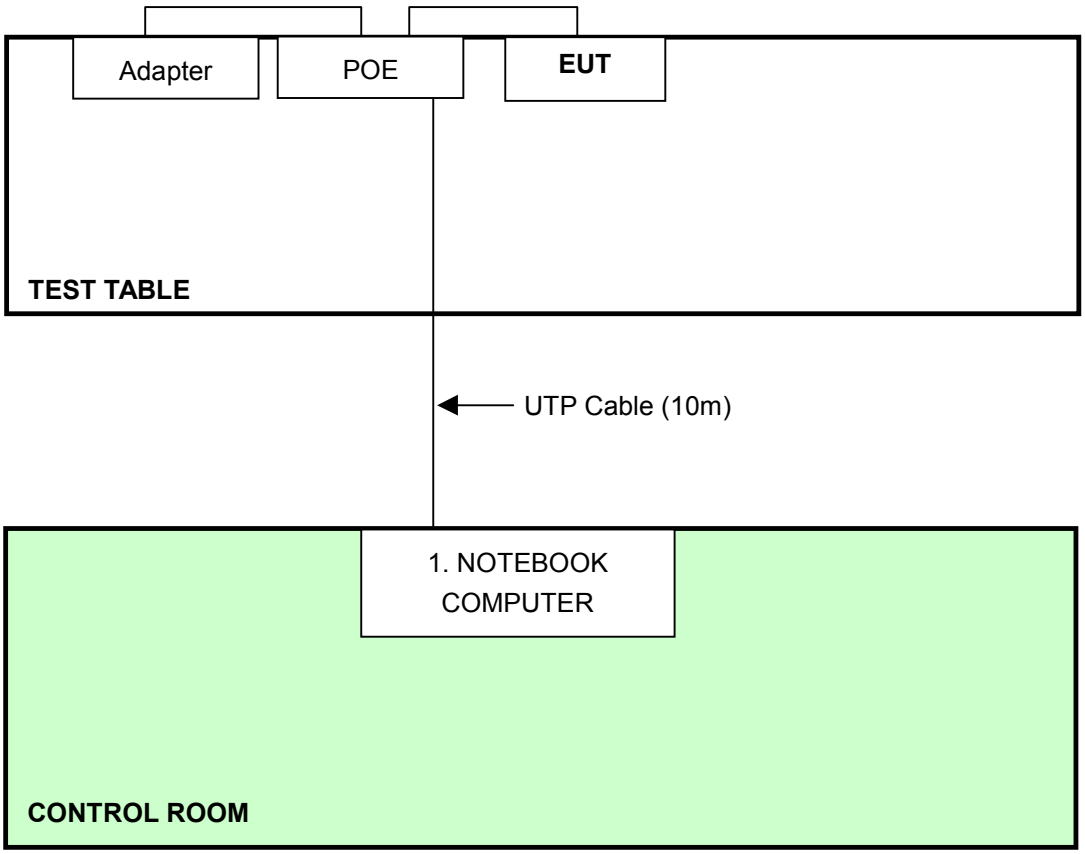
## 3.5 CONFIGURATION OF SYSTEM UNDER TEST

### With Adapter(conductions test):



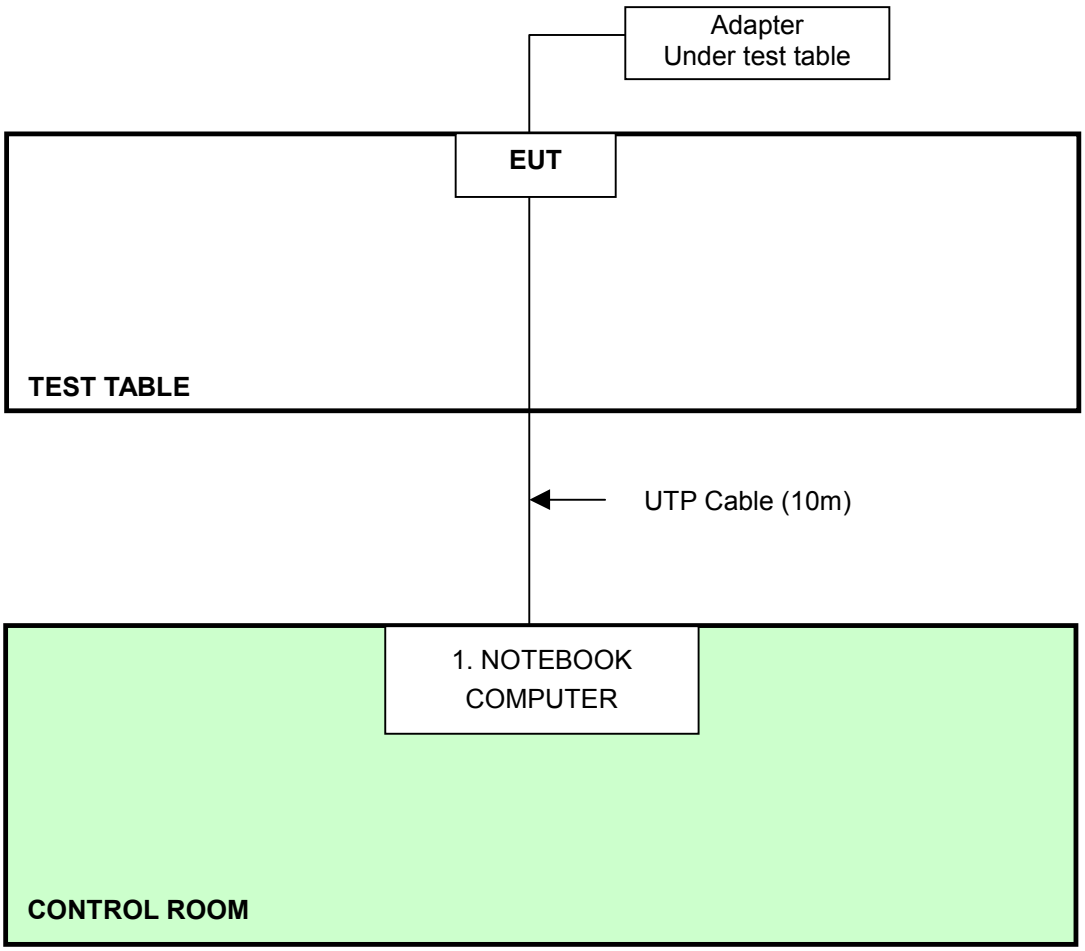

**NOTE:** 1. Support unit 1 was kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.

## With Adapter+POE(conductions test):



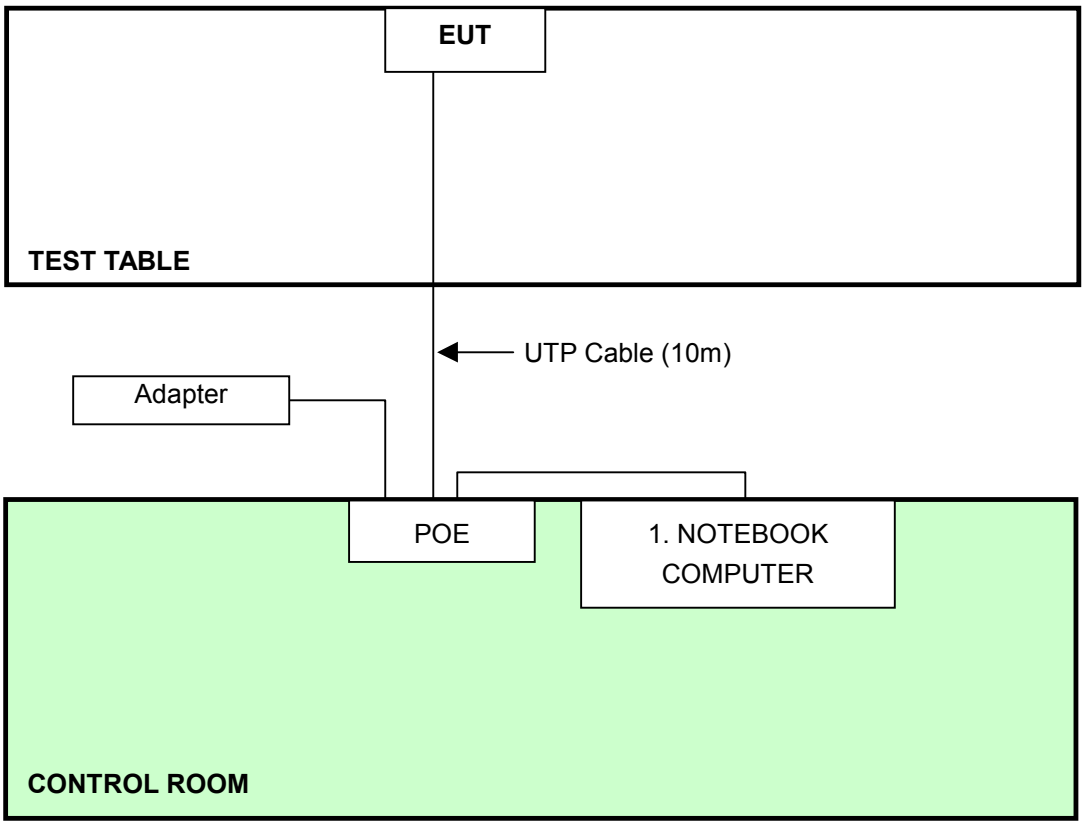

**NOTE:** 1. Support unit 1 was kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.

## With Adapter(radiation test):




**NOTE:** 1. Support unit 1 was kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.

## With Adapter+POE(radiation test):




**NOTE:** 1. Support unit 1 was kept in the control room during the test.
2. Please refer to the photos of test configuration in Item 5 also.

# 4 TEST TYPES AND RESULTS

## 4.1 CONDUCTED EMISSION MEASUREMENT

### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

**NOTE**:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class 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 |
|---|---|---|---|
| ROHDE & SCHWARZ<br>Test Receiver | ESCS 30 | 847124/029 | Dec. 07, 2005 |
| ROHDE & SCHWARZ LISN<br>(for EUT) | ESHS-Z5 | 848773/004 | Nov. 08, 2005 |
| KYORITSU LISN (for peripheral) | KNW-407 | 8/1395/12 | Jul. 23, 2005 |
| RF Cable (JETBAO) | RG233/U | Cable_CA_01 | Jul. 02, 2005 |
| Terminator(for KYORITSU) | 50 | 3 | May 10, 2005 |
| Software | Cond-V2e | 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 ADT Shielded Room No. A.
3 The VCCI Con A Registration No. is C-817.
4 The measurement uncertainty is 2.53 dB, which is calculated as per the document CISPR 16-4

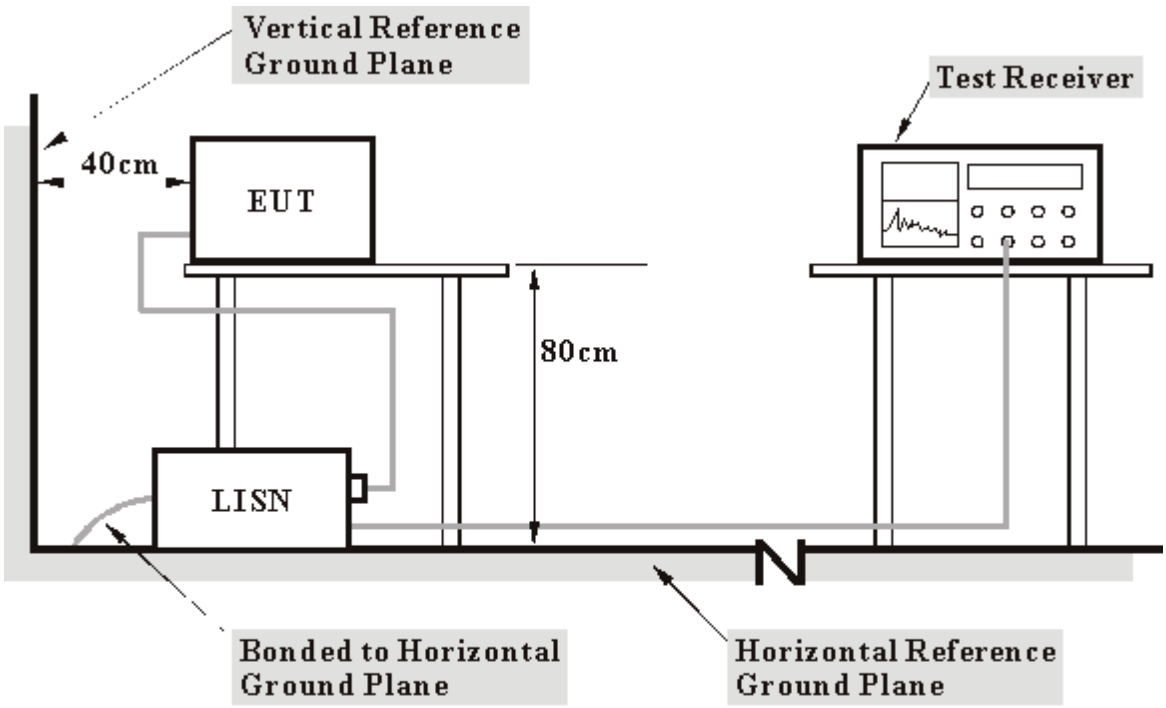
### 4.1.3 TEST PROCEDURES

a. The EUT/HOST was placed 0.4 meters from the conducting wall of the shielded room with EUT/HOST 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/HOST were checked for maximum conducted interference.

c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported

### 4.1.4 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.

### 4.1.5 EUT OPERATING CONDITIONS

a. Placed the EUT on the testing table.

b. Prepared another computer system to act as a communication partner and placed it outside of testing area.

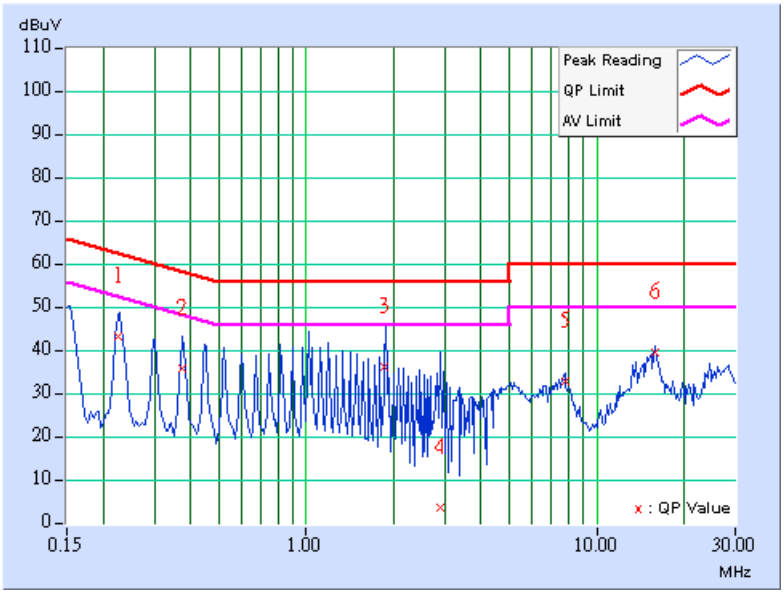
c. The communication partner run “Art 485” test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via UTP cable and wireless.

## 4.1.6 TEST RESULTS (With Adapter 1)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **6dB BANDWIDTH** | 9 kHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **PHASE** | Line (L) |
| **ENVIRONMENTAL CONDITIONS** | 20 deg. C, 70%RH, 977 hPa | **TESTED BY** | Eric Lee |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.224 | 0.31 | 41.84 | - | 42.15 | - | 62.66 | 52.66 | -20.51 | - |
| 2 | 0.377 | 0.33 | 34.45 | - | 34.78 | - | 58.35 | 48.35 | -23.58 | - |
| 3 | 1.865 | 0.52 | 34.64 | - | 35.16 | - | 56.00 | 46.00 | -20.84 | - |
| 4 | 2.892 | 0.69 | 2.21 | - | 2.90 | - | 56.00 | 46.00 | -53.10 | - |
| 5 | 7.758 | 1.13 | 31.33 | - | 32.46 | - | 60.00 | 50.00 | -27.54 | - |
| 6 | 15.809 | 1.58 | 37.91 | - | 39.49 | - | 60.00 | 50.00 | -20.51 | - |

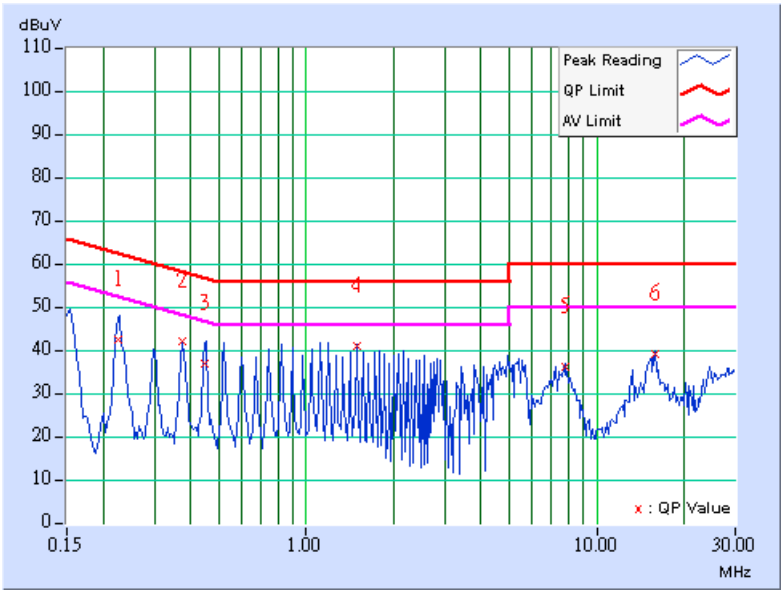
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **6dB BANDWIDTH** | 9 kHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **PHASE** | Neutral (N) |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.224 | 0.31 | 41.30 | - | 41.61 | - | 62.66 | 52.66 | -21.04 | - |
| 2 | 0.373 | 0.33 | 40.88 | - | 41.21 | - | 58.44 | 48.44 | -17.23 | - |
| 3 | 0.447 | 0.34 | 35.64 | - | 35.98 | - | 56.93 | 46.93 | -20.96 | - |
| 4 | 1.490 | 0.47 | 39.80 | - | 40.27 | - | 56.00 | 46.00 | -15.73 | - |
| 5 | 7.758 | 1.07 | 34.89 | - | 35.96 | - | 60.00 | 50.00 | -24.04 | - |
| 6 | 15.812 | 1.46 | 37.65 | - | 39.11 | - | 60.00 | 50.00 | -20.89 | - |

**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.

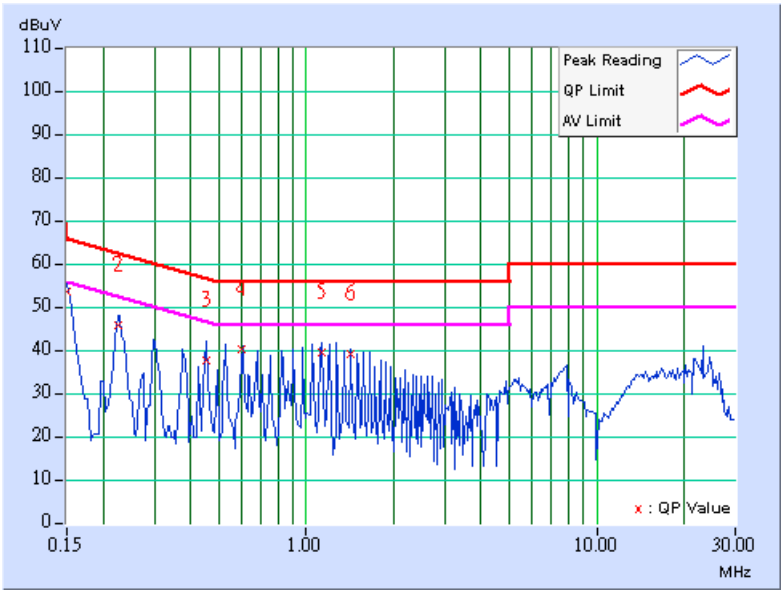


## 4.1.7 TEST RESULTS (With Adapter 1+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **6dB BANDWIDTH** | 9 kHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **PHASE** | Line (L) |
| **ENVIRONMENTAL CONDITIONS** | 20 deg. C, 70%RH, 977 hPa | **TESTED BY** | Wen Yu |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.30 | 53.07 | - | 53.37 | - | 66.00 | 56.00 | -12.63 | - |
| 2 | 0.224 | 0.31 | 45.52 | - | 45.83 | - | 62.66 | 52.66 | -16.83 | - |
| 3 | 0.451 | 0.34 | 37.17 | - | 37.51 | - | 56.86 | 46.86 | -19.35 | - |
| 4 | 0.599 | 0.36 | 39.76 | - | 40.12 | - | 56.00 | 46.00 | -15.88 | - |
| 5 | 1.127 | 0.43 | 39.20 | - | 39.63 | - | 56.00 | 46.00 | -16.37 | - |
| 6 | 1.424 | 0.47 | 38.85 | - | 39.32 | - | 56.00 | 46.00 | -16.68 | - |

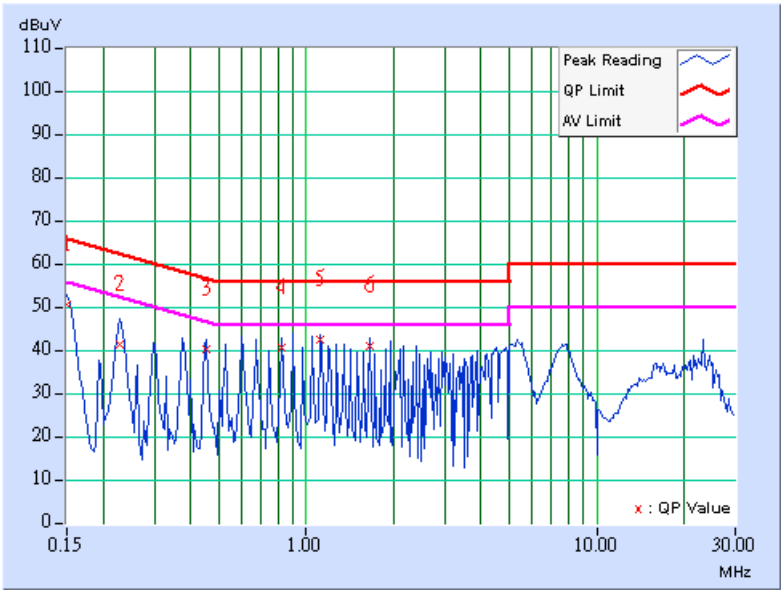
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **6dB BANDWIDTH** | 9 kHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **PHASE** | Neutral (N) |
| **ENVIRONMENTAL CONDITIONS** | 20 deg. C, 70%RH, 977 hPa | **TESTED BY** | Wen Yu |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.30 | 50.24 | - | 50.54 | - | 66.00 | 56.00 | -15.46 | - |
| 2 | 0.228 | 0.31 | 40.81 | - | 41.12 | - | 62.52 | 52.52 | -21.40 | - |
| 3 | 0.451 | 0.34 | 39.91 | - | 40.25 | - | 56.86 | 46.86 | -16.61 | - |
| 4 | 0.820 | 0.39 | 40.17 | - | 40.56 | - | 56.00 | 46.00 | -15.44 | - |
| 5 | 1.123 | 0.43 | 42.06 | - | 42.49 | - | 56.00 | 46.00 | -13.51 | - |
| 6 | 1.646 | 0.49 | 40.79 | - | 41.28 | - | 56.00 | 46.00 | -14.72 | - |

**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.

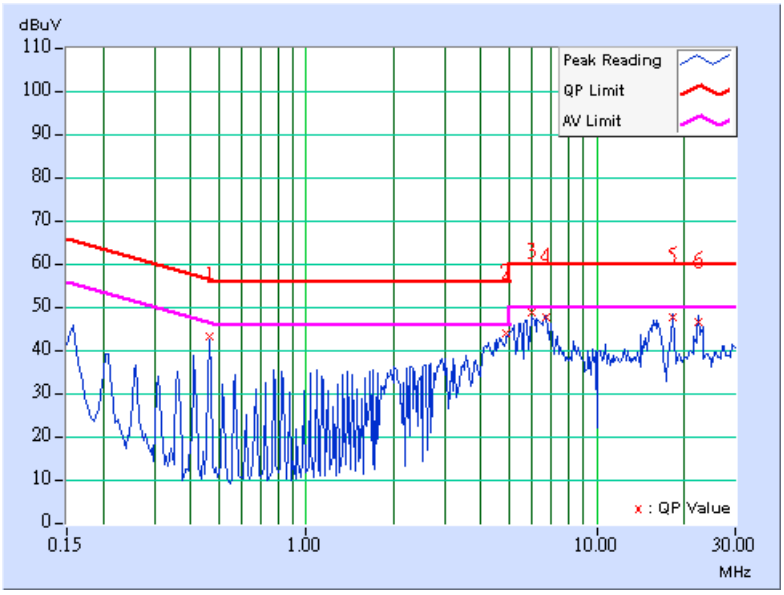


## 4.1.8 TEST RESULTS (With Adapter 2)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **6dB BANDWIDTH** | 9 kHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **PHASE** | Line (L) |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 72%RH, 977 hPa | **TESTED BY** | Wen Yu |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.466 | 0.34 | 41.60 | - | 41.94 | - | 56.59 | 46.59 | -14.65 | - |
| 2 | 4.906 | 0.95 | 42.22 | - | 43.17 | - | 56.00 | 46.00 | -12.83 | - |
| 3 | 5.988 | 1.02 | 47.21 | - | 48.23 | - | 60.00 | 50.00 | -11.77 | - |
| 4 | 6.711 | 1.06 | 46.00 | - | 47.06 | - | 60.00 | 50.00 | -12.94 | - |
| 5 | 18.242 | 1.70 | 45.83 | - | 47.53 | - | 60.00 | 50.00 | -12.47 | - |
| 6 | 22.457 | 1.84 | 44.76 | - | 46.60 | - | 60.00 | 50.00 | -13.40 | - |

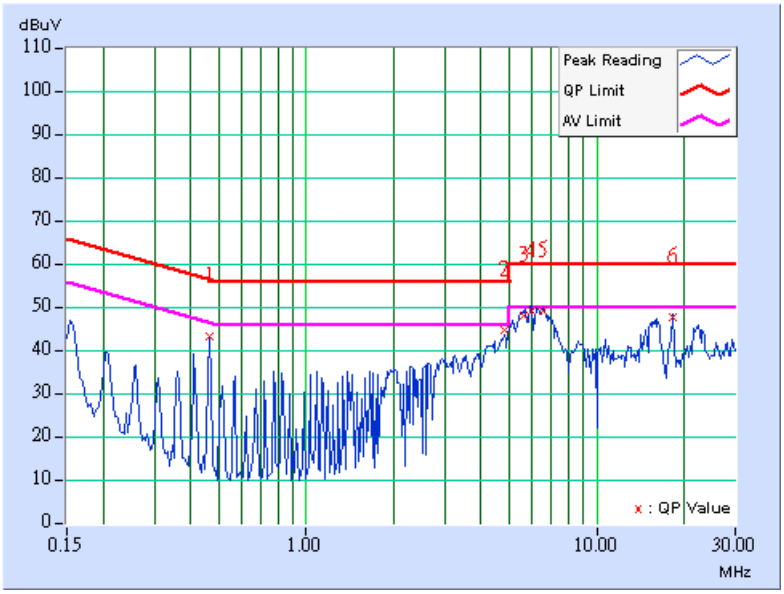
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **6dB BANDWIDTH** | 9 kHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **PHASE** | Neutral (N) |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 72%RH, 977 hPa | **TESTED BY** | Wen Yu |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.465 | 0.34 | 41.89 | - | 42.23 | - | 56.60 | 46.60 | -14.37 | - |
| 2 | 4.801 | 0.93 | 43.10 | - | 44.03 | - | 56.00 | 46.00 | -11.97 | - |
| 3 | 5.625 | 0.97 | 46.56 | - | 47.53 | - | 60.00 | 50.00 | -12.47 | - |
| 4 | 5.989 | 0.98 | 47.70 | - | 48.68 | - | 60.00 | 50.00 | -11.32 | - |
| 5 | 6.504 | 1.01 | 47.71 | - | 48.72 | - | 60.00 | 50.00 | -11.28 | - |
| 6 | 18.242 | 1.53 | 46.07 | - | 47.60 | - | 60.00 | 50.00 | -12.40 | - |

**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.

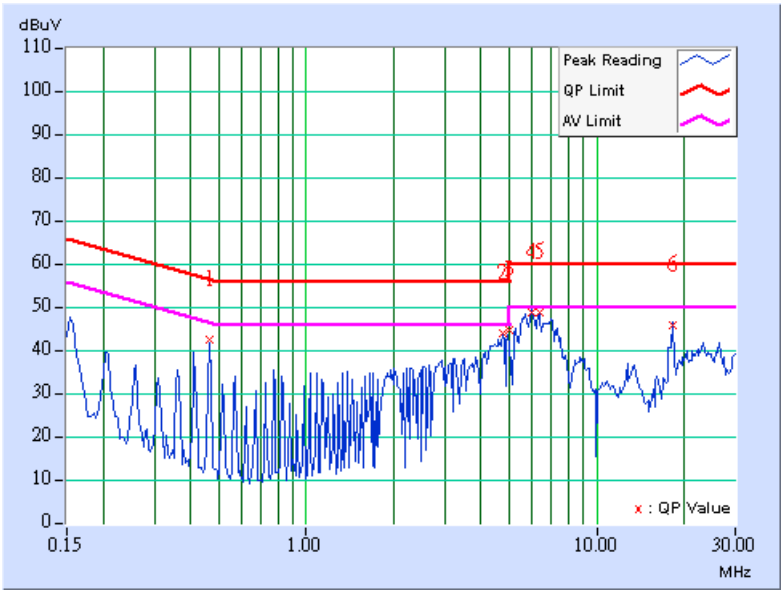


## 4.1.9 TEST RESULTS (With Adapter 2+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **6dB BANDWIDTH** | 9 kHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **PHASE** | Line (L) |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 72%RH, 977 hPa | **TESTED BY** | Wen Yu |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.463 | 0.34 | 40.75 | - | 41.09 | - | 56.65 | 46.65 | -15.56 | - |
| 2 | 4.750 | 0.94 | 42.43 | - | 43.37 | - | 56.00 | 46.00 | -12.63 | - |
| 3 | 5.009 | 0.95 | 43.03 | - | 43.98 | - | 60.00 | 50.00 | -16.02 | - |
| 4 | 5.988 | 1.02 | 47.05 | - | 48.07 | - | 60.00 | 50.00 | -11.93 | - |
| 5 | 6.352 | 1.04 | 47.05 | - | 48.09 | - | 60.00 | 50.00 | -11.91 | - |
| 6 | 18.242 | 1.70 | 44.26 | - | 45.96 | - | 60.00 | 50.00 | -14.04 | - |

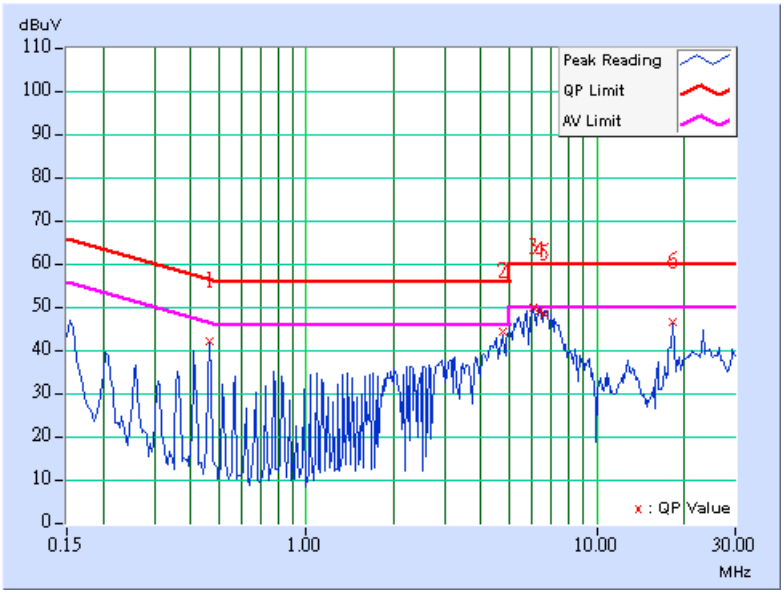
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **6dB BANDWIDTH** | 9 kHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **PHASE** | Neutral (N) |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 72%RH, 977 hPa | **TESTED BY** | Wen Yu |

| No | Freq. | Corr. Factor | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.466 | 0.34 | 40.75 | - | 41.09 | - | 56.58 | 46.58 | -15.49 | - |
| 2 | 4.750 | 0.93 | 42.74 | - | 43.67 | - | 56.00 | 46.00 | -12.33 | - |
| **3** | **6.040** | **0.99** | **48.38** | **-** | **49.37** | **-** | **60.00** | **50.00** | **-10.63** | **-** |
| 4 | 6.352 | 1.00 | 47.76 | - | 48.76 | - | 60.00 | 50.00 | -11.24 | - |
| 5 | 6.609 | 1.01 | 47.06 | - | 48.07 | - | 60.00 | 50.00 | -11.93 | - |
| 6 | 18.242 | 1.53 | 45.22 | - | 46.75 | - | 60.00 | 50.00 | -13.25 | - |

**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

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

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

**NOTE**:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. 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 |
|---|---|---|---|
| HP Spectrum Analyzer | 8594E | 3710A04861 | Sep. 23, 2005 |
| ADVANTEST Spectrum Analyzer | R3271A | 85060311 | Jun. 29, 2005 |
| CHASE RF Pre_Amplifier | CPA9232 | 1057 | Aug 06, 2005 |
| HP Pre_Amplifier | 8449B | 3008A01922 | Oct. 13, 2005 |
| ROHDE & SCHWARZ Test Receiver | ESCS30 | 100287 | Dec. 08, 2005 |
| CHASE Broadband Antenna | VULB9168 | 138 | May 22, 2005 |
| Schwarzbeck Horn_Antenna | BBHA9120 | D124 | Jun. 16, 2005 |
| Schwarzbeck Horn_Antenna | BBHA 9170 | BBHA9170192 | Feb. 16, 2005 |
| SCHWARZBECK Tunable Dipole Antenna | UHAP | 897 | Mar. 07, 2005 |
| SCHWARZBECK Tunable Dipole Antenna | VHAP | 880 | Mar. 07, 2005 |
| RF Switches (ARNITSU) | CS-201 | 1565157 | Jul. 15, 2005 |
| RF CABLE (Chaintek) 1GHz-20GHz | SF102 | 22054-2 | Feb. 10. 2005 |
| RF Cable(RICHTEC) | 9913-30M | STCCAB-30M-1GHz-021 | Jul. 15, 2005 |
| Software | AS60P8 | NA | NA |
| CHANCE MOST Antenna Tower | AT-100 | 0203 | NA |
| CHANCE MOST Turn Table | TT-100 | 0203 | NA |

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Tunable Dipole Antenna)and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in ADT Open Site No. C.
4. The FCC Site Registration No. is 656396.
5. The VCCI Site Registration No. is R-1626.
6. The CANADA Site Registration No. is IC 4824-3.
7. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4.

| Measurement | Value |
|---|---|
| Radiated emissions (30MHz-1GHz) | 2.98 dB |
| Radiated emissions (1GHz ~18GHz) | 2.21 dB |
| Radiated emissions (18GHz ~20GHz) | 1.88 dB |

### 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 10 meter open area test site. 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.

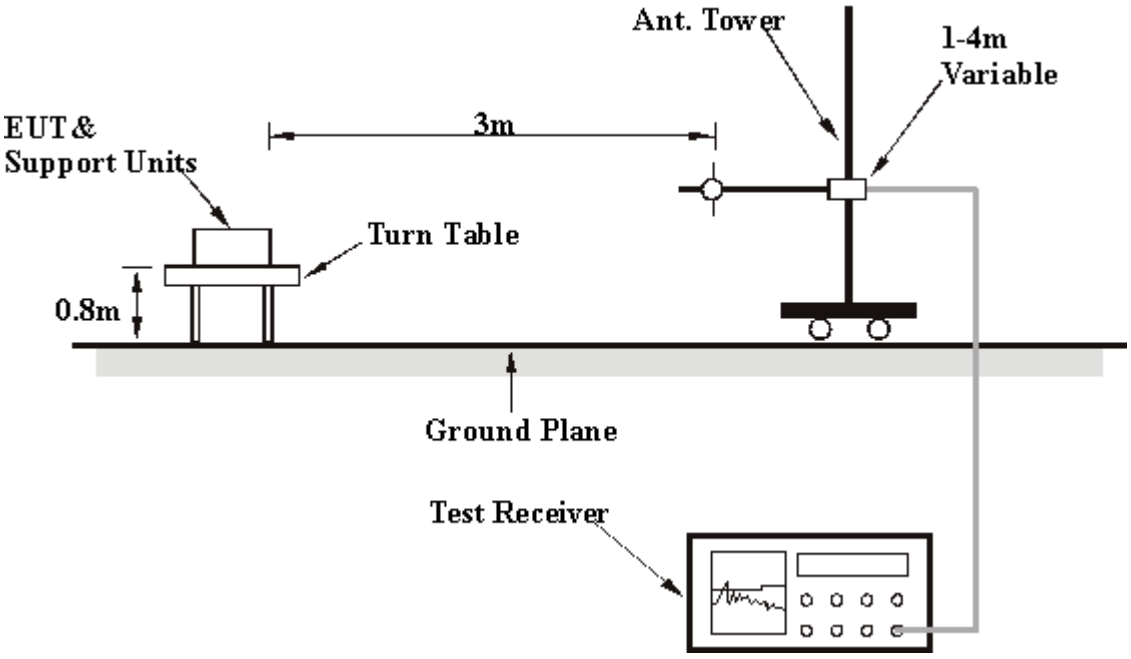
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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 300 Hz for Average detection (AV) at frequency above 1GHz.

### 4.2.4 TEST SETUP




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

### 4.2.5 EUT OPERATING CONDITIONS

Same as 4.1.5.

## 4.2.6 TEST RESULTS (ANTENNA 3 – Adapter 1)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 32.40 QP | 43.50 | -11.10 | 1.82 H | 279 | 19.90 | 12.50 |
| 2 | 200.00 | 31.40 QP | 43.50 | -12.10 | 1.68 H | 91 | 21.80 | 9.60 |
| 3 | 270.00 | 30.40 QP | 46.00 | -15.60 | 1.89 H | 115 | 16.00 | 14.40 |
| 4 | 360.00 | 38.70 QP | 46.00 | -7.30 | 2.20 H | 327 | 21.60 | 17.10 |
| 5 | 400.00 | 32.70 QP | 46.00 | -13.30 | 1.28 H | 348 | 14.30 | 18.40 |
| 6 | 450.00 | 42.60 QP | 46.00 | -3.40 | 1.68 H | 78 | 23.10 | 19.50 |
| 7 | 500.00 | 32.70 QP | 46.00 | -13.30 | 1.41 H | 21 | 12.00 | 20.70 |
| 8 | 540.00 | 36.40 QP | 46.00 | -9.60 | 1.00 H | 131 | 14.00 | 22.40 |
| 9 | 640.00 | 37.00 QP | 46.00 | -9.00 | 2.03 H | 359 | 13.80 | 23.20 |
| 10 | 900.00 | 39.70 QP | 46.00 | -6.30 | 1.38 H | 40 | 12.20 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 38.70 QP | 43.50 | -4.80 | 1.00 V | 194 | 26.20 | 12.50 |
| 2 | 200.00 | 30.80 QP | 43.50 | -12.70 | 1.00 V | 149 | 21.20 | 9.60 |
| 3 | 270.00 | 40.10 QP | 46.00 | -5.90 | 1.54 V | 136 | 25.70 | 14.40 |
| 4 | 325.00 | 32.80 QP | 46.00 | -13.20 | 1.00 V | 1 | 16.80 | 16.00 |
| 5 | 360.00 | 39.10 QP | 46.00 | -6.90 | 1.12 V | 262 | 22.00 | 17.10 |
| 6 | 450.00 | 41.50 QP | 46.00 | -4.50 | 1.12 V | 4 | 22.00 | 19.50 |
| 7 | 500.00 | 36.10 QP | 46.00 | -9.90 | 1.00 V | 22 | 15.40 | 20.70 |
| 8 | 540.00 | 40.50 QP | 46.00 | -5.50 | 1.06 V | 124 | 18.10 | 22.40 |
| 9 | 640.00 | 40.50 QP | 46.00 | -5.50 | 1.00 V | 146 | 17.30 | 23.20 |
| 10 | 900.00 | 40.20 QP | 46.00 | -5.80 | 1.00 V | 76 | 12.70 | 27.50 |

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

## 4.2.7 TEST RESULTS (ANTENNA 3 – Adapter 1+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 33.50 QP | 43.50 | -10.00 | 1.83 H | 266 | 21.00 | 12.50 |
| 2 | 200.00 | 29.80 QP | 43.50 | -13.70 | 1.65 H | 96 | 20.20 | 9.60 |
| 3 | 270.00 | 35.20 QP | 46.00 | -10.80 | 1.16 H | 127 | 20.80 | 14.40 |
| 4 | 360.00 | 41.90 QP | 46.00 | -4.10 | 1.07 H | 137 | 24.80 | 17.10 |
| 5 | 400.00 | 32.60 QP | 46.00 | -13.40 | 1.22 H | 163 | 14.20 | 18.40 |
| 6 | 450.00 | 42.50 QP | 46.00 | -3.50 | 1.67 H | 80 | 23.00 | 19.50 |
| 7 | 500.00 | 33.20 QP | 46.00 | -12.80 | 1.46 H | 141 | 12.50 | 20.70 |
| 8 | 540.00 | 37.40 QP | 46.00 | -8.60 | 1.00 H | 118 | 15.00 | 22.40 |
| 9 | 640.00 | 37.60 QP | 46.00 | -8.40 | 1.99 H | 345 | 14.40 | 23.20 |
| 10 | 900.00 | 40.10 QP | 46.00 | -5.90 | 1.29 H | 17 | 12.60 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 38.30 QP | 43.50 | -5.20 | 1.00 V | 195 | 25.80 | 12.50 |
| 2 | 200.00 | 30.10 QP | 43.50 | -13.40 | 1.00 V | 168 | 20.50 | 9.60 |
| 3 | 270.00 | 40.40 QP | 46.00 | -5.60 | 1.62 V | 127 | 26.00 | 14.40 |
| 4 | 300.00 | 30.00 QP | 46.00 | -16.00 | 1.00 V | 15 | 14.80 | 15.20 |
| 5 | 360.00 | 38.30 QP | 46.00 | -7.70 | 1.16 V | 49 | 21.20 | 17.10 |
| 6 | 450.00 | 41.60 QP | 46.00 | -4.40 | 1.00 V | 38 | 22.10 | 19.50 |
| 7 | 500.00 | 37.50 QP | 46.00 | -8.50 | 1.00 V | 27 | 16.80 | 20.70 |
| 8 | 540.00 | 40.70 QP | 46.00 | -5.30 | 1.12 V | 128 | 18.30 | 22.40 |
| 9 | 630.00 | 39.80 QP | 46.00 | -6.20 | 1.00 V | 89 | 16.80 | 23.00 |
| 10 | 900.00 | 39.70 QP | 46.00 | -6.30 | 1.05 V | 77 | 12.20 | 27.50 |

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

## 4.2.8 TEST RESULTS (ANTENNA 3 – Adapter 2)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 33.60 QP | 43.50 | -9.90 | 1.62 H | 231 | 21.10 | 12.50 |
| 2 | 200.00 | 32.90 QP | 43.50 | -10.60 | 1.37 H | 138 | 23.30 | 9.60 |
| 3 | 270.00 | 31.80 QP | 46.00 | -14.20 | 1.67 H | 106 | 17.40 | 14.40 |
| 4 | 360.00 | 39.60 QP | 46.00 | -6.40 | 2.07 H | 357 | 22.50 | 17.10 |
| 5 | 400.00 | 33.90 QP | 46.00 | -12.10 | 1.17 H | 318 | 15.50 | 18.40 |
| 6 | 450.00 | 41.20 QP | 46.00 | -4.80 | 1.44 H | 93 | 21.70 | 19.50 |
| 7 | 500.00 | 32.10 QP | 46.00 | -13.90 | 1.45 H | 42 | 11.40 | 20.70 |
| 8 | 540.00 | 37.80 QP | 46.00 | -8.20 | 1.05 H | 120 | 15.40 | 22.40 |
| 9 | 640.00 | 38.10 QP | 46.00 | -7.90 | 1.86 H | 341 | 14.90 | 23.20 |
| 10 | 900.00 | 39.30 QP | 46.00 | -6.70 | 1.32 H | 57 | 11.80 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 38.20 QP | 43.50 | -5.30 | 1.00 V | 176 | 25.70 | 12.50 |
| 2 | 200.00 | 32.10 QP | 43.50 | -11.40 | 1.00 V | 143 | 22.50 | 9.60 |
| 3 | 270.00 | 41.30 QP | 46.00 | -4.70 | 1.34 V | 129 | 26.90 | 14.40 |
| 4 | 300.00 | 31.70 QP | 46.00 | -14.30 | 1.00 V | 11 | 16.50 | 15.20 |
| 5 | 360.00 | 38.90 QP | 46.00 | -7.10 | 1.27 V | 28 | 21.80 | 17.10 |
| 6 | 450.00 | 40.20 QP | 46.00 | -5.80 | 1.00 V | 39 | 20.70 | 19.50 |
| 7 | 500.00 | 37.90 QP | 46.00 | -8.10 | 1.00 V | 51 | 17.20 | 20.70 |
| 8 | 540.00 | 40.20 QP | 46.00 | -5.80 | 1.34 V | 114 | 17.80 | 22.40 |
| 9 | 640.00 | 39.20 QP | 46.00 | -6.80 | 1.00 V | 108 | 16.00 | 23.20 |
| 10 | 900.00 | 39.40 QP | 46.00 | -6.60 | 1.02 V | 84 | 11.90 | 27.50 |

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

## 4.2.9 TEST RESULTS (ANTENNA 3 – Adapter 2+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 33.80 QP | 43.50 | -9.70 | 1.62 H | 317 | 21.30 | 12.50 |
| 2 | 200.00 | 32.50 QP | 43.50 | -11.00 | 1.94 H | 82 | 22.90 | 9.60 |
| 3 | 270.00 | 32.70 QP | 46.00 | -13.30 | 1.62 H | 114 | 18.30 | 14.40 |
| 4 | 360.00 | 39.40 QP | 46.00 | -6.60 | 2.08 H | 337 | 22.30 | 17.10 |
| 5 | 400.00 | 33.90 QP | 46.00 | -12.10 | 1.17 H | 317 | 15.50 | 18.40 |
| 6 | 450.00 | 40.40 QP | 46.00 | -5.60 | 1.58 H | 92 | 20.90 | 19.50 |
| 7 | 500.00 | 32.90 QP | 46.00 | -13.10 | 1.37 H | 37 | 12.20 | 20.70 |
| 8 | 540.00 | 36.90 QP | 46.00 | -9.10 | 1.00 H | 142 | 14.50 | 22.40 |
| 9 | 640.00 | 36.60 QP | 46.00 | -9.40 | 1.76 H | 3 | 13.40 | 23.20 |
| 10 | 900.00 | 39.90 QP | 46.00 | -6.10 | 1.27 H | 65 | 12.40 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 37.10 QP | 43.50 | -6.40 | 1.00 V | 185 | 24.60 | 12.50 |
| 2 | 200.00 | 30.40 QP | 43.50 | -13.10 | 1.00 V | 161 | 20.80 | 9.60 |
| 3 | 270.00 | 41.20 QP | 46.00 | -4.80 | 1.37 V | 123 | 26.80 | 14.40 |
| 4 | 325.00 | 33.90 QP | 46.00 | -12.10 | 1.13 V | 18 | 17.90 | 16.00 |
| 5 | 360.00 | 40.80 QP | 46.00 | -5.20 | 1.06 V | 241 | 23.70 | 17.10 |
| 6 | 450.00 | 40.70 QP | 46.00 | -5.30 | 1.06 V | 17 | 21.20 | 19.50 |
| 7 | 500.00 | 36.80 QP | 46.00 | -9.20 | 1.00 V | 67 | 16.10 | 20.70 |
| 8 | 540.00 | 39.80 QP | 46.00 | -6.20 | 1.05 V | 114 | 17.40 | 22.40 |
| 9 | 640.00 | 40.10 QP | 46.00 | -5.90 | 1.00 V | 137 | 16.90 | 23.20 |
| 10 | 900.00 | 40.10 QP | 46.00 | -5.90 | 1.02 V | 62 | 12.60 | 27.50 |

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

## 4.2.10 TEST RESULTS (ANTENNA 5 – Adapter 1)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.01 | 26.70 QP | 43.50 | -16.80 | 1.60 H | 271 | 14.20 | 12.50 |
| 2 | 199.99 | 22.40 QP | 43.50 | -21.10 | 1.67 H | 70 | 12.90 | 9.60 |
| 3 | 270.00 | 41.20 QP | 46.00 | -4.80 | 1.00 H | 38 | 26.80 | 14.40 |
| 4 | 360.00 | 42.50 QP | 46.00 | -3.50 | 1.00 H | 135 | 25.50 | 17.10 |
| 5 | 450.00 | 36.70 QP | 46.00 | -9.30 | 1.01 H | 157 | 17.20 | 19.50 |
| 6 | 499.99 | 31.70 QP | 46.00 | -14.30 | 2.04 H | 89 | 11.00 | 20.70 |
| 7 | 540.00 | 36.90 QP | 46.00 | -9.10 | 1.00 H | 134 | 14.50 | 22.40 |
| 8 | 640.00 | 34.80 QP | 46.00 | -11.20 | 1.71 H | 89 | 11.50 | 23.20 |
| 9 | 720.00 | 36.60 QP | 46.00 | -9.40 | 1.26 H | 2 | 11.80 | 24.80 |
| 10 | 900.00 | 35.70 QP | 46.00 | -10.30 | 1.00 H | 21 | 8.30 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.01 | 39.40 QP | 43.50 | -4.10 | 1.00 V | 148 | 26.90 | 12.50 |
| 2 | 270.00 | 40.20 QP | 46.00 | -5.80 | 1.58 V | 121 | 25.80 | 14.40 |
| 3 | 360.00 | 40.30 QP | 46.00 | -5.70 | 1.59 V | 353 | 23.20 | 17.10 |
| 4 | 450.00 | 39.90 QP | 46.00 | -6.10 | 1.40 V | 14 | 20.40 | 19.50 |
| 5 | 499.98 | 30.60 QP | 46.00 | -15.40 | 1.31 V | 11 | 9.90 | 20.70 |
| 6 | 540.00 | 41.20 QP | 46.00 | -4.80 | 1.17 V | 132 | 18.80 | 22.40 |
| 7 | 630.00 | 37.10 QP | 46.00 | -8.90 | 1.37 V | 333 | 14.10 | 23.00 |
| 8 | 680.00 | 31.60 QP | 46.00 | -14.40 | 1.00 V | 327 | 7.90 | 23.70 |
| 9 | 720.00 | 36.60 QP | 46.00 | -9.40 | 1.00 V | 334 | 11.80 | 24.80 |
| 10 | 900.00 | 32.00 QP | 46.00 | -14.00 | 1.29 V | 130 | 4.60 | 27.50 |

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

## 4.2.11 TEST RESULTS (ANTENNA 5 – Adapter 1+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.01 | 27.40 QP | 43.50 | -16.10 | 1.34 H | 227 | 14.90 | 12.50 |
| 2 | 270.00 | 41.90 QP | 46.00 | -4.10 | 1.00 H | 62 | 27.50 | 14.40 |
| 3 | 360.00 | 42.10 QP | 46.00 | -3.90 | 1.00 H | 124 | 25.00 | 17.10 |
| 4 | 450.00 | 37.30 QP | 46.00 | -8.70 | 1.00 H | 124 | 17.80 | 19.50 |
| 5 | 499.99 | 33.40 QP | 46.00 | -12.60 | 1.76 H | 104 | 12.70 | 20.70 |
| 6 | 540.00 | 37.40 QP | 46.00 | -8.60 | 1.00 H | 128 | 15.00 | 22.40 |
| 7 | 640.00 | 35.40 QP | 46.00 | -10.60 | 1.62 H | 67 | 12.20 | 23.20 |
| 8 | 720.00 | 36.90 QP | 46.00 | -9.10 | 1.20 H | 21 | 12.10 | 24.80 |
| 9 | 900.00 | 36.20 QP | 46.00 | -9.80 | 1.00 H | 38 | 8.70 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 39.30 QP | 43.50 | -4.20 | 1.00 V | 196 | 26.80 | 12.50 |
| 2 | 270.00 | 41.00 QP | 46.00 | -5.00 | 1.52 V | 59 | 26.60 | 14.40 |
| 3 | 300.00 | 32.80 QP | 46.00 | -13.20 | 1.54 V | 194 | 17.60 | 15.20 |
| 4 | 360.00 | 33.70 QP | 46.00 | -12.30 | 1.34 V | 57 | 16.60 | 17.10 |
| 5 | 450.00 | 38.40 QP | 46.00 | -7.60 | 1.41 V | 34 | 18.90 | 19.50 |
| 6 | 500.00 | 32.90 QP | 46.00 | -13.10 | 1.00 V | 27 | 12.20 | 20.70 |
| 7 | 540.00 | 41.60 QP | 46.00 | -4.40 | 1.08 V | 105 | 19.20 | 22.40 |
| 8 | 640.00 | 35.80 QP | 46.00 | -10.20 | 1.27 V | 14 | 12.60 | 23.20 |
| 9 | 720.00 | 37.80 QP | 46.00 | -8.20 | 1.34 V | 15 | 13.00 | 24.80 |
| 10 | 900.00 | 35.70 QP | 46.00 | -10.30 | 1.34 V | 128 | 8.20 | 27.50 |

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

## 4.2.12 TEST RESULTS (ANTENNA 5 – Adapter 2)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.01 | 27.60 QP | 43.50 | -15.90 | 2.07 H | 262 | 15.10 | 12.50 |
| 2 | 250.00 | 29.10 QP | 46.00 | -16.90 | 1.40 H | 146 | 15.10 | 14.00 |
| 3 | 270.00 | 41.20 QP | 46.00 | -4.80 | 1.00 H | 34 | 26.80 | 14.40 |
| 4 | 360.00 | 39.30 QP | 46.00 | -6.70 | 1.21 H | 132 | 22.20 | 17.10 |
| 5 | 450.00 | 36.90 QP | 46.00 | -9.10 | 1.00 H | 157 | 17.40 | 19.50 |
| 6 | 499.99 | 33.70 QP | 46.00 | -12.30 | 1.94 H | 82 | 13.00 | 20.70 |
| 7 | 540.00 | 37.60 QP | 46.00 | -8.40 | 1.00 H | 24 | 15.20 | 22.40 |
| 8 | 640.00 | 33.00 QP | 46.00 | -13.00 | 1.38 H | 272 | 9.80 | 23.20 |
| 9 | 720.00 | 35.80 QP | 46.00 | -10.20 | 1.00 H | 108 | 11.00 | 24.80 |
| 10 | 900.00 | 35.80 QP | 46.00 | -10.20 | 1.04 H | 6 | 8.30 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 39.60 QP | 43.50 | -3.90 | 1.00 V | 201 | 27.20 | 12.50 |
| 2 | 270.00 | 40.40 QP | 46.00 | -5.60 | 1.68 V | 96 | 26.00 | 14.40 |
| 3 | 300.00 | 29.60 QP | 46.00 | -16.40 | 1.42 V | 237 | 14.40 | 15.20 |
| 4 | 360.00 | 32.20 QP | 46.00 | -13.80 | 1.49 V | 26 | 15.20 | 17.10 |
| 5 | 450.00 | 37.60 QP | 46.00 | -8.40 | 1.44 V | 21 | 18.10 | 19.50 |
| 6 | 500.00 | 32.50 QP | 46.00 | -13.50 | 1.02 V | 34 | 11.80 | 20.70 |
| 7 | 540.00 | 40.80 QP | 46.00 | -5.20 | 1.02 V | 115 | 18.40 | 22.40 |
| 8 | 640.00 | 35.00 QP | 46.00 | -11.00 | 1.29 V | 359 | 11.80 | 23.20 |
| 9 | 720.00 | 36.90 QP | 46.00 | -9.10 | 1.37 V | 1 | 12.10 | 24.80 |
| 10 | 900.00 | 34.60 QP | 46.00 | -11.40 | 1.46 V | 133 | 7.10 | 27.50 |

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

## 4.2.13 TEST RESULTS (ANTENNA 5 – Adapter 2+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 270.00 | 40.60 QP | 46.00 | -5.40 | 1.00 H | 2 | 26.20 | 14.40 |
| 2 | 299.98 | 25.10 QP | 46.00 | -20.90 | 1.02 H | 210 | 9.90 | 15.20 |
| 3 | 360.00 | 39.50 QP | 46.00 | -6.50 | 1.00 H | 333 | 22.40 | 17.10 |
| 4 | 375.00 | 31.10 QP | 46.00 | -14.90 | 1.00 H | 294 | 13.50 | 17.60 |
| 5 | 399.80 | 30.70 QP | 46.00 | -15.30 | 1.00 H | 216 | 12.30 | 18.40 |
| 6 | 499.98 | 30.30 QP | 46.00 | -15.70 | 1.79 H | 50 | 9.60 | 20.70 |
| 7 | 540.00 | 36.10 QP | 46.00 | -9.90 | 1.00 H | 126 | 13.80 | 22.40 |
| 8 | 720.00 | 35.10 QP | 46.00 | -10.90 | 1.00 H | 7 | 10.30 | 24.80 |
| 9 | 899.70 | 33.80 QP | 46.00 | -12.20 | 1.48 H | 350 | 6.40 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 38.50 QP | 43.50 | -5.00 | 1.02 V | 190 | 26.00 | 12.50 |
| 2 | 200.00 | 26.60 QP | 43.50 | -16.90 | 1.00 V | 203 | 17.10 | 9.60 |
| 3 | 270.00 | 39.60 QP | 46.00 | -6.40 | 1.65 V | 92 | 25.20 | 14.40 |
| 4 | 300.00 | 23.70 QP | 46.00 | -22.30 | 1.00 V | 7 | 8.50 | 15.20 |
| 5 | 360.00 | 32.60 QP | 46.00 | -13.40 | 1.63 V | 21 | 15.50 | 17.10 |
| 6 | 450.00 | 38.40 QP | 46.00 | -7.60 | 1.26 V | 23 | 18.90 | 19.50 |
| 7 | 540.00 | 40.10 QP | 46.00 | -5.90 | 1.24 V | 36 | 17.80 | 22.40 |
| 8 | 624.98 | 27.70 QP | 46.00 | -18.30 | 1.00 V | 326 | 4.80 | 22.90 |
| 9 | 720.00 | 37.40 QP | 46.00 | -8.60 | 1.18 V | 7 | 12.60 | 24.80 |
| 10 | 900.00 | 34.50 QP | 46.00 | -11.50 | 1.39 V | 138 | 7.00 | 27.50 |

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

## 4.2.14 TEST RESULTS (ANTENNA 9 – Adapter 1)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 30.20 QP | 43.50 | -13.30 | 1.81 H | 232 | 17.70 | 12.50 |
| 2 | 270.00 | 40.60 QP | 46.00 | -5.40 | 1.29 H | 18 | 26.20 | 14.40 |
| 3 | 360.00 | 40.70 QP | 46.00 | -5.30 | 1.03 H | 128 | 23.60 | 17.10 |
| 4 | 450.00 | 36.70 QP | 46.00 | -9.30 | 1.34 H | 151 | 17.20 | 19.50 |
| 5 | 500.00 | 35.20 QP | 46.00 | -10.80 | 1.68 H | 125 | 14.50 | 20.70 |
| 6 | 540.00 | 40.30 QP | 46.00 | -5.70 | 1.00 H | 57 | 17.90 | 22.40 |
| 7 | 640.00 | 36.90 QP | 46.00 | -9.10 | 1.28 H | 201 | 13.70 | 23.20 |
| 8 | 720.00 | 35.30 QP | 46.00 | -10.70 | 1.30 H | 254 | 10.50 | 24.80 |
| 9 | 900.00 | 37.10 QP | 46.00 | -8.90 | 1.07 H | 62 | 9.60 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 39.10 QP | 43.50 | -4.40 | 1.00 V | 128 | 26.60 | 12.50 |
| 2 | 270.00 | 40.60 QP | 46.00 | -5.40 | 1.42 V | 102 | 26.20 | 14.40 |
| 3 | 360.00 | 39.40 QP | 46.00 | -6.60 | 1.28 V | 1 | 22.30 | 17.10 |
| 4 | 450.00 | 39.40 QP | 46.00 | -6.60 | 1.31 V | 30 | 19.90 | 19.50 |
| 5 | 500.00 | 34.50 QP | 46.00 | -11.50 | 1.17 V | 68 | 13.80 | 20.70 |
| 6 | 540.00 | 40.90 QP | 46.00 | -5.10 | 1.14 V | 147 | 18.50 | 22.40 |
| 7 | 640.00 | 36.90 QP | 46.00 | -9.10 | 1.57 V | 37 | 13.70 | 23.20 |
| 8 | 720.00 | 36.80 QP | 46.00 | -9.20 | 1.25 V | 5 | 12.00 | 24.80 |
| 9 | 900.00 | 33.40 QP | 46.00 | -12.60 | 1.34 V | 158 | 5.90 | 27.50 |

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

## 4.2.15 TEST RESULTS (ANTENNA 9 – Adapter 1+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 30.30 QP | 43.50 | -13.20 | 1.87 H | 214 | 17.80 | 12.50 |
| 2 | 270.00 | 39.80 QP | 46.00 | -6.20 | 1.21 H | 64 | 25.40 | 14.40 |
| 3 | 360.00 | 40.10 QP | 46.00 | -5.90 | 1.34 H | 165 | 23.00 | 17.10 |
| 4 | 450.00 | 37.60 QP | 46.00 | -8.40 | 1.27 H | 128 | 18.10 | 19.50 |
| 5 | 500.00 | 36.20 QP | 46.00 | -9.80 | 1.55 H | 137 | 15.50 | 20.70 |
| 6 | 540.00 | 40.10 QP | 46.00 | -5.90 | 1.08 H | 27 | 17.70 | 22.40 |
| 7 | 640.00 | 36.40 QP | 46.00 | -9.60 | 1.31 H | 182 | 13.20 | 23.20 |
| 8 | 720.00 | 35.90 QP | 46.00 | -10.10 | 1.21 H | 227 | 11.10 | 24.80 |
| 9 | 900.00 | 37.60 QP | 46.00 | -8.40 | 1.14 H | 48 | 10.10 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 40.10 QP | 43.50 | -3.40 | 1.00 V | 218 | 27.60 | 12.50 |
| 2 | 270.00 | 40.10 QP | 46.00 | -5.90 | 1.75 V | 108 | 25.70 | 14.40 |
| 3 | 300.00 | 30.80 QP | 46.00 | -15.20 | 1.53 V | 295 | 15.60 | 15.20 |
| 4 | 360.00 | 39.60 QP | 46.00 | -6.40 | 1.57 V | 14 | 22.50 | 17.10 |
| 5 | 450.00 | 38.70 QP | 46.00 | -7.30 | 1.52 V | 27 | 19.20 | 19.50 |
| 6 | 500.00 | 32.90 QP | 46.00 | -13.10 | 1.07 V | 50 | 12.20 | 20.70 |
| 7 | 540.00 | 40.30 QP | 46.00 | -5.70 | 1.08 V | 121 | 17.90 | 22.40 |
| 8 | 640.00 | 35.90 QP | 46.00 | -10.10 | 1.62 V | 21 | 12.70 | 23.20 |
| 9 | 720.00 | 36.10 QP | 46.00 | -9.90 | 1.28 V | 24 | 11.30 | 24.80 |
| 10 | 900.00 | 34.00 QP | 46.00 | -12.00 | 1.22 V | 181 | 6.50 | 27.50 |

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

## 4.2.16 TEST RESULTS (ANTENNA 9 – Adapter 2)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 29.40 QP | 43.50 | -14.10 | 1.27 H | 203 | 16.90 | 12.50 |
| 2 | 270.00 | 41.40 QP | 46.00 | -4.60 | 1.00 H | 61 | 27.00 | 14.40 |
| 3 | 360.00 | 42.10 QP | 46.00 | -3.90 | 1.02 H | 152 | 25.00 | 17.10 |
| 4 | 450.00 | 37.10 QP | 46.00 | -8.90 | 1.00 H | 115 | 17.60 | 19.50 |
| 5 | 500.00 | 34.00 QP | 46.00 | -12.00 | 1.67 H | 108 | 13.30 | 20.70 |
| 6 | 540.00 | 37.80 QP | 46.00 | -8.20 | 1.00 H | 137 | 15.40 | 22.40 |
| 7 | 640.00 | 34.50 QP | 46.00 | -11.50 | 1.51 H | 89 | 11.30 | 23.20 |
| 8 | 720.00 | 37.80 QP | 46.00 | -8.20 | 1.28 H | 4 | 13.00 | 24.80 |
| 9 | 900.00 | 36.40 QP | 46.00 | -9.60 | 1.10 H | 34 | 8.90 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 39.10 QP | 43.50 | -4.40 | 1.00 V | 234 | 26.60 | 12.50 |
| 2 | 270.00 | 40.80 QP | 46.00 | -5.20 | 1.63 V | 111 | 26.40 | 14.40 |
| 3 | 360.00 | 40.00 QP | 46.00 | -6.00 | 1.61 V | 28 | 22.90 | 17.10 |
| 4 | 450.00 | 38.90 QP | 46.00 | -7.10 | 1.57 V | 31 | 19.40 | 19.50 |
| 5 | 500.00 | 33.30 QP | 46.00 | -12.70 | 1.27 V | 103 | 12.60 | 20.70 |
| 6 | 540.00 | 39.70 QP | 46.00 | -6.30 | 1.02 V | 147 | 17.30 | 22.40 |
| 7 | 640.00 | 35.40 QP | 46.00 | -10.60 | 1.66 V | 64 | 12.20 | 23.20 |
| 8 | 720.00 | 36.60 QP | 46.00 | -9.40 | 1.14 V | 22 | 11.80 | 24.80 |
| 9 | 900.00 | 34.40 QP | 46.00 | -11.60 | 1.34 V | 127 | 6.90 | 27.50 |

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

## 4.2.17 TEST RESULTS (ANTENNA 9 – Adapter 2+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 28.10 QP | 43.50 | -15.40 | 1.26 H | 219 | 15.60 | 12.50 |
| 2 | 270.00 | 42.20 QP | 46.00 | -3.80 | 1.00 H | 75 | 27.80 | 14.40 |
| 3 | 360.00 | 42.60 QP | 46.00 | -3.40 | 1.00 H | 136 | 25.50 | 17.10 |
| 4 | 450.00 | 37.80 QP | 46.00 | -8.20 | 1.00 H | 134 | 18.30 | 19.50 |
| 5 | 500.00 | 34.20 QP | 46.00 | -11.80 | 1.84 H | 112 | 13.50 | 20.70 |
| 6 | 540.00 | 37.50 QP | 46.00 | -8.50 | 1.02 H | 131 | 15.10 | 22.40 |
| 7 | 640.00 | 35.10 QP | 46.00 | -10.90 | 1.57 H | 82 | 11.90 | 23.20 |
| 8 | 720.00 | 37.20 QP | 46.00 | -8.80 | 1.22 H | 28 | 12.40 | 24.80 |
| 9 | 900.00 | 36.90 QP | 46.00 | -9.10 | 1.16 H | 64 | 9.40 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 39.40 QP | 43.50 | -4.10 | 1.01 V | 296 | 26.90 | 12.50 |
| 2 | 270.00 | 40.10 QP | 46.00 | -5.90 | 1.52 V | 142 | 25.70 | 14.40 |
| 3 | 360.00 | 40.40 QP | 46.00 | -5.60 | 1.52 V | 37 | 23.30 | 17.10 |
| 4 | 450.00 | 39.30 QP | 46.00 | -6.70 | 1.68 V | 42 | 19.80 | 19.50 |
| 5 | 500.00 | 35.70 QP | 46.00 | -10.30 | 1.41 V | 127 | 15.00 | 20.70 |
| 6 | 540.00 | 41.40 QP | 46.00 | -4.60 | 1.29 V | 164 | 19.00 | 22.40 |
| 7 | 640.00 | 36.70 QP | 46.00 | -9.30 | 1.44 V | 42 | 13.50 | 23.20 |
| 8 | 720.00 | 36.90 QP | 46.00 | -9.10 | 1.05 V | 38 | 12.10 | 24.80 |
| 9 | 900.00 | 35.20 QP | 46.00 | -10.80 | 1.26 V | 142 | 7.70 | 27.50 |

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

## 4.2.18 TEST RESULTS (ANTENNA 10 – Adapter 1)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 27.80 QP | 43.50 | -15.70 | 1.53 H | 240 | 15.30 | 12.50 |
| 2 | 200.00 | 24.40 QP | 43.50 | -19.10 | 1.63 H | 62 | 14.80 | 9.60 |
| 3 | 270.00 | 40.10 QP | 46.00 | -5.90 | 1.00 H | 48 | 25.70 | 14.40 |
| 4 | 360.00 | 41.20 QP | 46.00 | -4.80 | 1.00 H | 19 | 24.10 | 17.10 |
| 5 | 450.00 | 37.80 QP | 46.00 | -8.20 | 1.00 H | 138 | 18.30 | 19.50 |
| 6 | 500.00 | 33.50 QP | 46.00 | -12.50 | 2.00 H | 94 | 12.80 | 20.70 |
| 7 | 540.00 | 37.60 QP | 46.00 | -8.40 | 1.02 H | 142 | 15.20 | 22.40 |
| 8 | 640.00 | 35.80 QP | 46.00 | -10.20 | 1.64 H | 66 | 12.60 | 23.20 |
| 9 | 720.00 | 36.10 QP | 46.00 | -9.90 | 1.25 H | 10 | 11.30 | 24.80 |
| 10 | 900.00 | 36.60 QP | 46.00 | -9.40 | 1.00 H | 34 | 9.10 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 37.10 QP | 43.50 | -6.40 | 1.00 V | 116 | 24.60 | 12.50 |
| 2 | 270.00 | 40.30 QP | 46.00 | -5.70 | 1.42 V | 118 | 25.90 | 14.40 |
| 3 | 360.00 | 40.40 QP | 46.00 | -5.60 | 1.34 V | 308 | 23.30 | 17.10 |
| 4 | 450.00 | 40.20 QP | 46.00 | -5.80 | 1.72 V | 117 | 20.70 | 19.50 |
| 5 | 500.00 | 32.60 QP | 46.00 | -13.40 | 1.46 V | 57 | 11.90 | 20.70 |
| 6 | 540.00 | 41.60 QP | 46.00 | -4.40 | 1.16 V | 152 | 19.20 | 22.40 |
| 7 | 640.00 | 38.10 QP | 46.00 | -7.90 | 1.38 V | 234 | 14.90 | 23.20 |
| 8 | 720.00 | 38.90 QP | 46.00 | -7.10 | 1.02 V | 354 | 14.10 | 24.80 |
| 9 | 900.00 | 33.90 QP | 46.00 | -12.10 | 1.60 V | 120 | 6.40 | 27.50 |

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

## 4.2.19 TEST RESULTS (ANTENNA 10 – Adapter 1+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 28.20 QP | 43.50 | -15.30 | 1.32 H | 208 | 15.70 | 12.50 |
| 2 | 200.00 | 26.70 QP | 43.50 | -16.80 | 1.57 H | 51 | 17.10 | 9.60 |
| 3 | 270.00 | 38.20 QP | 46.00 | -7.80 | 1.00 H | 69 | 23.80 | 14.40 |
| 4 | 360.00 | 40.50 QP | 46.00 | -5.50 | 1.00 H | 39 | 23.40 | 17.10 |
| 5 | 450.00 | 37.50 QP | 46.00 | -8.50 | 1.03 H | 131 | 18.00 | 19.50 |
| 6 | 500.00 | 34.70 QP | 46.00 | -11.30 | 2.01 H | 98 | 14.00 | 20.70 |
| 7 | 540.00 | 38.20 QP | 46.00 | -7.80 | 1.00 H | 137 | 15.80 | 22.40 |
| 8 | 640.00 | 36.40 QP | 46.00 | -9.60 | 1.48 H | 60 | 13.20 | 23.20 |
| 9 | 720.00 | 36.80 QP | 46.00 | -9.20 | 1.21 H | 28 | 12.00 | 24.80 |
| 10 | 900.00 | 37.10 QP | 46.00 | -8.90 | 1.03 H | 58 | 9.60 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 38.20 QP | 43.50 | -5.30 | 1.00 V | 129 | 25.70 | 12.50 |
| 2 | 270.00 | 40.60 QP | 46.00 | -5.40 | 1.52 V | 134 | 26.20 | 14.40 |
| 3 | 360.00 | 40.60 QP | 46.00 | -5.40 | 1.48 V | 321 | 23.50 | 17.10 |
| 4 | 450.00 | 40.70 QP | 46.00 | -5.30 | 1.59 V | 93 | 21.20 | 19.50 |
| 5 | 500.00 | 31.80 QP | 46.00 | -14.20 | 1.52 V | 34 | 11.10 | 20.70 |
| 6 | 540.00 | 42.70 QP | 46.00 | -3.30 | 1.27 V | 166 | 20.30 | 22.40 |
| 7 | 640.00 | 38.60 QP | 46.00 | -7.40 | 1.33 V | 259 | 15.40 | 23.20 |
| 8 | 720.00 | 38.40 QP | 46.00 | -7.60 | 1.00 V | 312 | 13.60 | 24.80 |
| 9 | 900.00 | 34.20 QP | 46.00 | -11.80 | 1.64 V | 124 | 6.70 | 27.50 |

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

## 4.2.20 TEST RESULTS (ANTENNA 10 – Adapter 2)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 29.00 QP | 43.50 | -14.50 | 1.88 H | 251 | 16.50 | 12.50 |
| 2 | 250.00 | 32.40 QP | 46.00 | -13.60 | 1.39 H | 128 | 18.40 | 14.00 |
| 3 | 270.00 | 40.90 QP | 46.00 | -5.10 | 1.24 H | 43 | 26.50 | 14.40 |
| 4 | 360.00 | 40.00 QP | 46.00 | -6.00 | 1.08 H | 130 | 22.90 | 17.10 |
| 5 | 450.00 | 36.90 QP | 46.00 | -9.10 | 1.18 H | 137 | 17.40 | 19.50 |
| 6 | 500.00 | 34.10 QP | 46.00 | -11.90 | 1.63 H | 115 | 13.40 | 20.70 |
| 7 | 540.00 | 39.40 QP | 46.00 | -6.60 | 1.04 H | 73 | 17.00 | 22.40 |
| 8 | 640.00 | 36.20 QP | 46.00 | -9.80 | 1.42 H | 205 | 13.00 | 23.20 |
| 9 | 720.00 | 34.80 QP | 46.00 | -11.20 | 1.34 H | 267 | 10.00 | 24.80 |
| 10 | 900.00 | 36.40 QP | 46.00 | -9.60 | 1.11 H | 37 | 8.90 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 35.30 QP | 43.50 | -8.20 | 1.01 V | 121 | 22.80 | 12.50 |
| 2 | 270.00 | 40.90 QP | 46.00 | -5.10 | 1.22 V | 167 | 26.50 | 14.40 |
| 3 | 360.00 | 40.10 QP | 46.00 | -5.90 | 1.39 V | 327 | 23.00 | 17.10 |
| 4 | 450.00 | 40.90 QP | 46.00 | -5.10 | 1.58 V | 112 | 21.40 | 19.50 |
| 5 | 500.00 | 34.30 QP | 46.00 | -11.70 | 1.52 V | 39 | 13.60 | 20.70 |
| 6 | 540.00 | 42.30 QP | 46.00 | -3.70 | 1.19 V | 158 | 19.90 | 22.40 |
| 7 | 640.00 | 38.40 QP | 46.00 | -7.60 | 1.31 V | 251 | 15.20 | 23.20 |
| 8 | 720.00 | 38.20 QP | 46.00 | -7.80 | 1.00 V | 343 | 13.40 | 24.80 |
| 9 | 900.00 | 35.20 QP | 46.00 | -10.80 | 1.34 V | 138 | 7.70 | 27.50 |

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

## 4.2.21 TEST RESULTS (ANTENNA 10 – Adapter 2+POE)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 30-1000 MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Quasi-Peak, 120kHz |
| **ENVIRONMENTAL CONDITIONS** | 26 deg. C, 67%RH, 977 hPa | **TESTED BY** | Sky Liao |

**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 | 125.00 | 28.30 QP | 43.50 | -15.20 | 2.01 H | 286 | 15.80 | 12.50 |
| 2 | 250.00 | 31.10 QP | 46.00 | -14.90 | 1.26 H | 157 | 17.10 | 14.00 |
| 3 | 270.00 | 40.70 QP | 46.00 | -5.30 | 1.09 H | 28 | 26.30 | 14.40 |
| 4 | 360.00 | 40.20 QP | 46.00 | -5.80 | 1.35 H | 110 | 23.10 | 17.10 |
| 5 | 450.00 | 36.20 QP | 46.00 | -9.80 | 1.03 H | 128 | 16.70 | 19.50 |
| 6 | 500.00 | 33.80 QP | 46.00 | -12.20 | 1.78 H | 106 | 13.10 | 20.70 |
| 7 | 540.00 | 38.20 QP | 46.00 | -7.80 | 1.00 H | 59 | 15.80 | 22.40 |
| 8 | 640.00 | 34.60 QP | 46.00 | -11.40 | 1.24 H | 236 | 11.40 | 23.20 |
| 9 | 720.00 | 35.10 QP | 46.00 | -10.90 | 1.06 H | 104 | 10.30 | 24.80 |
| 10 | 900.00 | 36.60 QP | 46.00 | -9.40 | 1.02 H | 17 | 9.10 | 27.50 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 125.00 | 35.60 QP | 43.50 | -7.90 | 1.00 V | 129 | 23.10 | 12.50 |
| 2 | 270.00 | 41.30 QP | 46.00 | -4.70 | 1.34 V | 192 | 26.90 | 14.40 |
| 3 | 360.00 | 40.30 QP | 46.00 | -5.70 | 1.52 V | 308 | 23.20 | 17.10 |
| 4 | 450.00 | 40.10 QP | 46.00 | -5.90 | 1.38 V | 134 | 20.60 | 19.50 |
| 5 | 500.00 | 35.70 QP | 46.00 | -10.30 | 1.42 V | 75 | 15.00 | 20.70 |
| 6 | 540.00 | 40.10 QP | 46.00 | -5.90 | 1.08 V | 132 | 17.70 | 22.40 |
| 7 | 640.00 | 40.90 QP | 46.00 | -5.10 | 1.24 V | 227 | 17.70 | 23.20 |
| 8 | 720.00 | 38.40 QP | 46.00 | -7.60 | 1.16 V | 328 | 13.60 | 24.80 |
| 9 | 900.00 | 36.60 QP | 46.00 | -9.40 | 1.21 V | 126 | 9.10 | 27.50 |

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

## 4.2.22 TEST RESULTS (ANTENNA 3 – DSSS)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 1 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 32.90 PK | 74.00 | -41.10 | 1.24 H | 350 | 4.10 | 28.80 |
| 1 | 2016.00 | 25.90 AV | 54.00 | -28.10 | 1.24 H | 350 | -2.90 | 28.80 |
| 2 | 2390.00 | 43.80 PK | 74.00 | -30.20 | 1.16 H | 353 | 10.00 | 33.80 |
| 2 | 2390.00 | 35.90 AV | 54.00 | -18.10 | 1.16 H | 353 | 2.10 | 33.80 |
| 3 | *2412.00 | 103.30 PK | -- | -- | 1.15 H | 350 | 73.40 | 29.90 |
| 3 | *2412.00 | 95.90 AV | -- | -- | 1.15 H | 350 | 66.00 | 29.90 |
| 4 | 2688.00 | 32.10 PK | 74.00 | -41.90 | 1.10 H | 1 | 1.20 | 30.90 |
| 4 | 2688.00 | 24.60 AV | 54.00 | -29.40 | 1.10 H | 1 | -6.20 | 30.90 |
| 5 | 4824.00 | 40.40 PK | 74.00 | -33.60 | 1.01 H | 1 | 4.20 | 36.20 |
| 5 | 4824.00 | 31.40 AV | 54.00 | -22.60 | 1.01 H | 1 | -4.80 | 36.20 |
| 6 | 7236.00 | 43.80 PK | 74.00 | -30.20 | 1.70 H | 9 | 2.10 | 41.70 |
| 6 | 7236.00 | 35.90 AV | 54.00 | -18.10 | 1.70 H | 9 | -5.70 | 41.70 |
| 7 | 9648.00 | 46.90 PK | 74.00 | -27.10 | 1.10 H | 14 | 2.00 | 44.90 |
| 7 | 9648.00 | 38.10 AV | 54.00 | -15.90 | 1.10 H | 14 | -6.80 | 44.90 |

**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 | 2016.00 | 42.80 PK | 74.00 | -31.20 | 1.13 V | 351 | 14.00 | 28.80 |
| 1 | 2016.00 | 36.80 AV | 54.00 | -17.20 | 1.13 V | 351 | 8.00 | 28.80 |
| 2 | 2390.00 | 58.90 PK | 74.00 | -15.10 | 1.18 V | 355 | 25.10 | 33.80 |
| 2 | 2390.00 | 52.00 AV | 54.00 | -2.00 | 1.18 V | 355 | 18.20 | 33.80 |
| 3 | *2412.00 | 118.30 PK | -- | -- | 1.16 V | 354 | 88.40 | 29.90 |
| 3 | *2412.00 | 110.90 AV | -- | -- | 1.16 V | 354 | 81.00 | 29.90 |
| 4 | 2688.00 | 39.50 PK | 74.00 | -34.50 | 1.06 V | 339 | 8.70 | 30.90 |
| 4 | 2688.00 | 32.40 AV | 54.00 | -21.60 | 1.06 V | 339 | 1.60 | 30.90 |
| 5 | 4824.00 | 46.40 PK | 74.00 | -27.60 | 1.01 V | 356 | 10.20 | 36.20 |
| 5 | 4824.00 | 37.40 AV | 54.00 | -16.60 | 1.01 V | 356 | 1.20 | 36.20 |
| 6 | 7236.00 | 47.40 PK | 74.00 | -26.60 | 1.04 V | 360 | 5.80 | 41.70 |
| 6 | 7236.00 | 40.50 AV | 54.00 | -13.50 | 1.04 V | 360 | -1.20 | 41.70 |
| 7 | 9648.00 | 49.20 PK | 74.00 | -24.80 | 1.00 V | 1 | 4.30 | 44.90 |
| 7 | 9648.00 | 41.40 AV | 54.00 | -12.60 | 1.00 V | 1 | -3.50 | 44.90 |

**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. The limit value is defined as per 15.247
6.“ * “ : Fundamental frequency

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 6 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 32.90 PK | 74.00 | -41.10 | 1.41 H | 342 | 4.10 | 28.80 |
| 1 | 2016.00 | 28.00 AV | 54.00 | -26.00 | 1.41 H | 342 | -0.90 | 28.80 |
| 2 | 2390.00 | 43.00 PK | 74.00 | -31.00 | 1.15 H | 348 | 9.20 | 33.80 |
| 2 | 2390.00 | 35.90 AV | 54.00 | -18.10 | 1.15 H | 348 | 2.10 | 33.80 |
| 3 | *2437.00 | 108.10 PK | -- | -- | 1.14 H | 345 | 78.10 | 30.00 |
| 3 | *2437.00 | 100.40 AV | -- | -- | 1.14 H | 345 | 70.40 | 30.00 |
| 4 | 2483.50 | 43.10 PK | 74.00 | -30.90 | 1.16 H | 343 | 13.00 | 30.10 |
| 4 | 2483.50 | 35.20 AV | 54.00 | -18.80 | 1.16 H | 343 | 5.10 | 30.10 |
| 5 | 2688.00 | 35.50 PK | 74.00 | -38.50 | 1.11 H | 356 | 4.60 | 30.90 |
| 5 | 2688.00 | 29.10 AV | 54.00 | -24.90 | 1.11 H | 356 | -1.80 | 30.90 |
| 6 | 4874.00 | 40.50 PK | 74.00 | -33.50 | 1.11 H | 1 | 4.10 | 36.50 |
| 6 | 4874.00 | 31.60 AV | 54.00 | -22.40 | 1.11 H | 1 | -4.90 | 36.50 |
| 7 | 7311.00 | 46.50 PK | 74.00 | -27.50 | 1.00 H | 358 | 4.80 | 41.80 |
| 7 | 7311.00 | 37.70 AV | 54.00 | -16.30 | 1.00 H | 358 | -4.10 | 41.80 |
| 8 | 9748.00 | 47.00 PK | 74.00 | -27.00 | 1.60 H | 9 | 2.40 | 44.60 |
| 8 | 9748.00 | 37.30 AV | 54.00 | -16.70 | 1.60 H | 9 | -7.40 | 44.60 |

**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 | 2016.00 | 44.30 PK | 74.00 | -29.70 | 1.10 V | 3 | 15.50 | 28.80 |
| 1 | 2016.00 | 40.10 AV | 54.00 | -13.90 | 1.10 V | 3 | 11.30 | 28.80 |
| 2 | 2390.00 | 57.40 PK | 74.00 | -16.60 | 1.16 V | 355 | 23.60 | 33.80 |
| 2 | 2390.00 | 50.10 AV | 54.00 | -3.90 | 1.16 V | 355 | 16.30 | 33.80 |
| 3 | *2437.00 | 122.80 PK | -- | -- | 1.15 V | 354 | 92.80 | 30.00 |
| 3 | *2437.00 | 115.20 AV | -- | -- | 1.15 V | 354 | 85.20 | 30.00 |
| 4 | 2483.50 | 58.80 PK | 74.00 | -15.20 | 1.15 V | 353 | 28.70 | 30.10 |
| 4 | 2483.50 | 51.20 AV | 54.00 | -2.80 | 1.15 V | 353 | 21.10 | 30.10 |
| 5 | 2688.00 | 43.40 PK | 74.00 | -30.60 | 1.26 V | 358 | 12.50 | 30.90 |
| 5 | 2688.00 | 38.10 AV | 54.00 | -15.90 | 1.26 V | 358 | 7.20 | 30.90 |
| 6 | 4874.00 | 48.90 PK | 74.00 | -25.10 | 1.11 V | 2 | 12.50 | 36.50 |
| 6 | 4874.00 | 39.40 AV | 54.00 | -14.60 | 1.11 V | 2 | 2.90 | 36.50 |
| 7 | 7311.00 | 50.60 PK | 74.00 | -23.40 | 1.11 V | 359 | 8.90 | 41.80 |
| 7 | 7311.00 | 42.00 AV | 54.00 | -12.00 | 1.11 V | 359 | 0.20 | 41.80 |
| 8 | 9748.00 | 48.20 PK | 74.00 | -25.80 | 1.02 V | 214 | 3.50 | 44.60 |
| 8 | 9748.00 | 39.30 AV | 54.00 | -14.70 | 1.02 V | 214 | -5.30 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 11 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 33.70 PK | 74.00 | -40.30 | 1.11 H | 9 | 4.90 | 28.80 |
| 1 | 2016.00 | 28.90 AV | 54.00 | -25.10 | 1.11 H | 9 | 0.10 | 28.80 |
| 2 | *2462.00 | 102.80 PK | -- | -- | 1.14 H | 344 | 72.70 | 30.10 |
| 2 | *2462.00 | 95.90 AV | -- | -- | 1.14 H | 344 | 65.90 | 30.10 |
| 3 | 2483.50 | 42.80 PK | 74.00 | -31.20 | 1.15 H | 345 | 12.70 | 30.10 |
| 3 | 2483.50 | 35.60 AV | 54.00 | -18.40 | 1.15 H | 345 | 5.50 | 30.10 |
| 4 | 2688.00 | 34.40 PK | 74.00 | -39.60 | 1.80 H | 1 | 3.50 | 30.90 |
| 4 | 2688.00 | 27.60 AV | 54.00 | -26.40 | 1.80 H | 1 | -3.20 | 30.90 |
| 5 | 4924.00 | 40.60 PK | 74.00 | -33.40 | 1.40 H | 1 | 3.90 | 36.70 |
| 5 | 4924.00 | 31.80 AV | 54.00 | -22.20 | 1.40 H | 1 | -4.90 | 36.70 |
| 6 | 7386.00 | 44.60 PK | 74.00 | -29.40 | 1.14 H | 356 | 2.80 | 41.80 |
| 6 | 7386.00 | 36.70 AV | 54.00 | -17.30 | 1.14 H | 356 | -5.20 | 41.80 |
| 7 | 9848.00 | 46.70 PK | 74.00 | -27.30 | 1.36 H | 6 | 2.40 | 44.40 |
| 7 | 9848.00 | 37.00 AV | 54.00 | -17.00 | 1.36 H | 6 | -7.40 | 44.40 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2016.00 | 46.60 PK | 74.00 | -27.40 | 1.11 V | 342 | 17.80 | 28.80 |
| 1 | 2016.00 | 42.60 AV | 54.00 | -11.40 | 1.11 V | 342 | 13.80 | 28.80 |
| 2 | *2462.00 | 118.40 PK | -- | -- | 1.13 V | 354 | 88.30 | 30.10 |
| 2 | *2462.00 | 111.10 AV | -- | -- | 1.13 V | 354 | 81.00 | 30.10 |
| 3 | 2483.50 | 58.30 PK | 74.00 | -15.70 | 1.14 V | 355 | 28.20 | 30.10 |
| 3 | 2483.50 | 51.10 AV | 54.00 | -2.90 | 1.14 V | 355 | 21.00 | 30.10 |
| 4 | 2688.00 | 41.70 PK | 74.00 | -32.30 | 1.26 V | 356 | 10.90 | 30.90 |
| 4 | 2688.00 | 36.10 AV | 54.00 | -17.90 | 1.26 V | 356 | 5.20 | 30.90 |
| 5 | 4924.00 | 45.60 PK | 74.00 | -28.40 | 1.11 V | 357 | 8.90 | 36.70 |
| 5 | 4924.00 | 37.10 AV | 54.00 | -16.90 | 1.11 V | 357 | 0.40 | 36.70 |
| 6 | 7386.00 | 47.90 PK | 74.00 | -26.10 | 1.60 V | 353 | 6.10 | 41.80 |
| 6 | 7386.00 | 39.90 AV | 54.00 | -14.10 | 1.60 V | 353 | -2.00 | 41.80 |
| 7 | 9848.00 | 48.00 PK | 74.00 | -26.00 | 1.00 V | 1 | 3.60 | 44.40 |
| 7 | 9848.00 | 40.00 AV | 54.00 | -14.00 | 1.00 V | 1 | -4.30 | 44.40 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

## 4.2.23 TEST RESULTS (ANTENNA 5 – DSSS)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 1 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 41.10 PK | 74.00 | -32.90 | 1.45 H | 41 | 12.30 | 28.80 |
| 1 | 2016.00 | 36.20 AV | 54.00 | -17.80 | 1.45 H | 41 | 7.40 | 28.80 |
| 2 | 2390.00 | 43.50 PK | 74.00 | -30.50 | 1.23 H | 70 | 9.70 | 33.80 |
| 2 | 2390.00 | 35.70 AV | 54.00 | -18.30 | 1.23 H | 70 | 1.90 | 33.80 |
| 3 | *2412.00 | 100.80 PK | -- | -- | 1.26 H | 69 | 70.90 | 29.90 |
| 3 | *2412.00 | 93.50 AV | -- | -- | 1.26 H | 69 | 63.60 | 29.90 |
| 4 | 2688.00 | 34.30 PK | 74.00 | -39.70 | 1.45 H | 24 | 3.40 | 30.90 |
| 4 | 2688.00 | 30.00 AV | 54.00 | -24.00 | 1.45 H | 24 | -0.90 | 30.90 |
| 5 | 4824.00 | 41.30 PK | 74.00 | -32.70 | 1.47 H | 45 | 5.10 | 36.20 |
| 5 | 4824.00 | 30.40 AV | 54.00 | -23.60 | 1.47 H | 45 | -5.80 | 36.20 |
| 6 | 7236.00 | 46.30 PK | 74.00 | -27.70 | 1.05 H | 154 | 4.70 | 41.70 |
| 6 | 7236.00 | 38.50 AV | 54.00 | -15.50 | 1.05 H | 154 | -3.20 | 41.70 |
| 7 | 9648.00 | 49.00 PK | 74.00 | -25.00 | 1.64 H | 269 | 4.10 | 44.90 |
| 7 | 9648.00 | 40.30 AV | 54.00 | -13.70 | 1.64 H | 269 | -4.60 | 44.90 |

**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 | 2016.00 | 52.40 PK | 74.00 | -21.60 | 1.77 V | 5 | 23.60 | 28.80 |
| 1 | 2016.00 | 48.80 AV | 54.00 | -5.20 | 1.77 V | 5 | 20.00 | 28.80 |
| 2 | 2390.00 | 59.40 PK | 74.00 | -14.60 | 1.09 V | 48 | 25.60 | 33.80 |
| 2 | 2390.00 | 51.80 AV | 54.00 | -2.20 | 1.09 V | 48 | 18.00 | 33.80 |
| 3 | *2412.00 | 117.80 PK | -- | -- | 1.07 V | 45 | 87.90 | 29.90 |
| 3 | *2412.00 | 110.80 AV | -- | -- | 1.07 V | 45 | 80.90 | 29.90 |
| 4 | 2688.00 | 44.10 PK | 74.00 | -29.90 | 1.04 V | 37 | 13.20 | 30.90 |
| 4 | 2688.00 | 39.10 AV | 54.00 | -14.90 | 1.04 V | 37 | 8.20 | 30.90 |
| 5 | 4824.00 | 45.40 PK | 74.00 | -28.60 | 1.07 V | 2 | 9.20 | 36.20 |
| 5 | 4824.00 | 37.60 AV | 54.00 | -16.40 | 1.07 V | 2 | 1.40 | 36.20 |
| 6 | 7236.00 | 46.30 PK | 74.00 | -27.70 | 1.45 V | 354 | 4.60 | 41.70 |
| 6 | 7236.00 | 39.50 AV | 54.00 | -14.50 | 1.45 V | 354 | -2.20 | 41.70 |
| 7 | 9648.00 | 48.30 PK | 74.00 | -25.70 | 1.75 V | 4 | 3.40 | 44.90 |
| 7 | 9648.00 | 40.40 AV | 54.00 | -13.60 | 1.75 V | 4 | -4.50 | 44.90 |

**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. The limit value is defined as per 15.247
6.“ * “ : Fundamental frequency

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 6 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 40.70 PK | 74.00 | -33.30 | 1.34 H | 65 | 11.90 | 28.80 |
| 1 | 2016.00 | 37.60 AV | 54.00 | -16.40 | 1.34 H | 65 | 8.80 | 28.80 |
| 2 | 2390.00 | 43.00 PK | 74.00 | -31.00 | 1.45 H | 24 | 9.20 | 33.80 |
| 2 | 2390.00 | 35.00 AV | 54.00 | -19.00 | 1.45 H | 24 | 1.20 | 33.80 |
| 3 | *2437.00 | 103.70 PK | -- | -- | 1.55 H | 51 | 73.70 | 30.00 |
| 3 | *2437.00 | 96.80 AV | -- | -- | 1.55 H | 51 | 66.80 | 30.00 |
| 4 | 2483.50 | 42.40 PK | 74.00 | -31.60 | 1.23 H | 65 | 12.20 | 30.10 |
| 4 | 2483.50 | 34.10 AV | 54.00 | -19.90 | 1.23 H | 65 | 4.00 | 30.10 |
| 5 | 2688.00 | 41.50 PK | 74.00 | -32.50 | 1.76 H | 65 | 10.60 | 30.90 |
| 5 | 2688.00 | 37.70 AV | 54.00 | -16.30 | 1.76 H | 65 | 6.80 | 30.90 |
| 6 | 4874.00 | 44.40 PK | 74.00 | -29.60 | 1.36 H | 65 | 8.00 | 36.50 |
| 6 | 4874.00 | 34.60 AV | 54.00 | -19.40 | 1.36 H | 65 | -1.90 | 36.50 |
| 7 | 7311.00 | 47.10 PK | 74.00 | -26.90 | 1.80 H | 24 | 5.40 | 41.80 |
| 7 | 7311.00 | 39.10 AV | 54.00 | -14.90 | 1.80 H | 24 | -2.60 | 41.80 |
| 8 | 9748.00 | 46.70 PK | 74.00 | -27.30 | 1.11 H | 2 | 2.00 | 44.60 |
| 8 | 9748.00 | 38.60 AV | 54.00 | -15.40 | 1.11 H | 2 | -6.10 | 44.60 |

**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 | 2016.00 | 53.00 PK | 74.00 | -21.00 | 1.82 V | 5 | 24.20 | 28.80 |
| 1 | 2016.00 | 50.60 AV | 54.00 | -3.40 | 1.82 V | 5 | 21.80 | 28.80 |
| 2 | 2390.00 | 60.30 PK | 74.00 | -13.70 | 1.45 V | 41 | 26.50 | 33.80 |
| 2 | 2390.00 | 52.00 AV | 54.00 | -2.00 | 1.45 V | 41 | 18.20 | 33.80 |
| 3 | *2437.00 | 122.00 PK | -- | -- | 1.01 V | 21 | 92.00 | 30.00 |
| 3 | *2437.00 | 114.40 AV | -- | -- | 1.01 V | 21 | 84.40 | 30.00 |
| 4 | 2483.50 | 59.80 PK | 74.00 | -14.20 | 1.59 V | 6 | 29.60 | 30.10 |
| 4 | 2483.50 | 51.10 AV | 54.00 | -2.90 | 1.59 V | 6 | 21.00 | 30.10 |
| 5 | 2688.00 | 49.70 PK | 74.00 | -24.30 | 1.44 V | 18 | 18.90 | 30.90 |
| 5 | 2688.00 | 46.50 AV | 54.00 | -7.50 | 1.44 V | 18 | 15.70 | 30.90 |
| 6 | 4874.00 | 46.70 PK | 74.00 | -27.30 | 1.54 V | 74 | 10.20 | 36.50 |
| 6 | 4874.00 | 39.00 AV | 54.00 | -15.00 | 1.54 V | 74 | 2.50 | 36.50 |
| 7 | 7311.00 | 50.70 PK | 74.00 | -23.30 | 1.64 V | 24 | 8.90 | 41.80 |
| 7 | 7311.00 | 43.00 AV | 54.00 | -11.00 | 1.64 V | 24 | 1.20 | 41.80 |
| 8 | 9748.00 | 49.20 PK | 74.00 | -24.80 | 1.11 V | 4 | 4.50 | 44.60 |
| 8 | 9748.00 | 41.30 AV | 54.00 | -12.70 | 1.11 V | 4 | -3.30 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 40.70 PK | 74.00 | -33.30 | 1.47 H | 54 | 11.90 | 28.80 |
| 1 | 2016.00 | 36.90 AV | 54.00 | -17.10 | 1.47 H | 54 | 8.10 | 28.80 |
| 2 | *2462.00 | 101.70 PK | -- | -- | 1.23 H | 73 | 71.60 | 30.10 |
| 2 | *2462.00 | 94.10 AV | -- | -- | 1.23 H | 73 | 64.00 | 30.10 |
| 3 | 2483.50 | 41.10 PK | 74.00 | -32.90 | 1.11 H | 4 | 11.00 | 30.10 |
| 3 | 2483.50 | 33.40 AV | 54.00 | -20.60 | 1.11 H | 4 | 3.20 | 30.10 |
| 4 | 2688.00 | 38.60 PK | 74.00 | -35.40 | 1.58 H | 65 | 7.80 | 30.90 |
| 4 | 2688.00 | 33.70 AV | 54.00 | -20.30 | 1.58 H | 65 | 2.80 | 30.90 |
| 5 | 4924.00 | 40.80 PK | 74.00 | -33.20 | 1.02 H | 24 | 4.10 | 36.70 |
| 5 | 4924.00 | 32.10 AV | 54.00 | -21.90 | 1.02 H | 24 | -4.50 | 36.70 |
| 6 | 7386.00 | 46.50 PK | 74.00 | -27.50 | 1.47 H | 7 | 4.60 | 41.80 |
| 6 | 7386.00 | 37.30 AV | 54.00 | -16.70 | 1.47 H | 7 | -4.50 | 41.80 |
| 7 | 9848.00 | 48.40 PK | 74.00 | -25.60 | 1.82 H | 65 | 4.00 | 44.40 |
| 7 | 9848.00 | 37.30 AV | 54.00 | -16.70 | 1.82 H | 65 | -7.10 | 44.40 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2016.00 | 52.70 PK | 74.00 | -21.30 | 1.78 V | 6 | 23.90 | 28.80 |
| 1 | 2016.00 | 49.70 AV | 54.00 | -4.30 | 1.78 V | 6 | 20.90 | 28.80 |
| 2 | *2462.00 | 117.60 PK | -- | -- | 1.13 V | 357 | 87.50 | 30.10 |
| 2 | *2462.00 | 110.60 AV | -- | -- | 1.13 V | 357 | 80.50 | 30.10 |
| 3 | 2483.50 | 59.80 PK | 74.00 | -14.20 | 1.15 V | 24 | 29.60 | 30.10 |
| 3 | 2483.50 | 51.90 AV | 54.00 | -2.10 | 1.15 V | 24 | 21.80 | 30.10 |
| 4 | 2688.00 | 48.30 PK | 74.00 | -25.70 | 1.40 V | 17 | 17.50 | 30.90 |
| 4 | 2688.00 | 43.60 AV | 54.00 | -10.40 | 1.40 V | 17 | 12.70 | 30.90 |
| 5 | 4924.00 | 45.20 PK | 74.00 | -28.80 | 1.10 V | 351 | 8.50 | 36.70 |
| 5 | 4924.00 | 36.90 AV | 54.00 | -17.10 | 1.10 V | 351 | 0.20 | 36.70 |
| 6 | 7386.00 | 46.50 PK | 74.00 | -27.50 | 1.07 V | 7 | 4.70 | 41.80 |
| 6 | 7386.00 | 38.10 AV | 54.00 | -15.90 | 1.07 V | 7 | -3.70 | 41.80 |
| 7 | 9848.00 | 47.00 PK | 74.00 | -27.00 | 1.11 V | 354 | 2.60 | 44.40 |
| 7 | 9848.00 | 39.60 AV | 54.00 | -14.40 | 1.11 V | 354 | -4.80 | 44.40 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

## 4.2.24 TEST RESULTS (ANTENNA 9 – DSSS)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 1 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 34.60 PK | 74.00 | -39.40 | 1.07 H | 7 | 5.80 | 28.80 |
| 1 | 2016.00 | 30.00 AV | 54.00 | -24.00 | 1.07 H | 7 | 1.10 | 28.80 |
| 2 | 2390.00 | 44.90 PK | 74.00 | -29.10 | 1.12 H | 37 | 11.10 | 33.80 |
| 2 | 2390.00 | 37.70 AV | 54.00 | -16.30 | 1.12 H | 37 | 3.90 | 33.80 |
| 3 | *2412.00 | 103.10 PK | -- | -- | 1.12 H | 38 | 73.20 | 29.90 |
| 3 | *2412.00 | 96.40 AV | -- | -- | 1.12 H | 38 | 66.50 | 29.90 |
| 4 | 2688.00 | 35.40 PK | 74.00 | -38.60 | 1.21 H | 5 | 4.50 | 30.90 |
| 4 | 2688.00 | 30.60 AV | 54.00 | -23.40 | 1.21 H | 5 | -0.20 | 30.90 |
| 5 | 4824.00 | 40.40 PK | 74.00 | -33.60 | 1.04 H | 21 | 4.20 | 36.20 |
| 5 | 4824.00 | 32.40 AV | 54.00 | -21.60 | 1.04 H | 21 | -3.80 | 36.20 |
| 6 | 7236.00 | 44.20 PK | 74.00 | -29.80 | 1.14 H | 1 | 2.60 | 41.70 |
| 6 | 7236.00 | 36.50 AV | 54.00 | -17.50 | 1.14 H | 1 | -5.20 | 41.70 |
| 7 | 9648.00 | 48.10 PK | 74.00 | -25.90 | 1.10 H | 11 | 3.20 | 44.90 |
| 7 | 9648.00 | 37.30 AV | 54.00 | -16.70 | 1.10 H | 11 | -7.60 | 44.90 |

**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 | 2016.00 | 45.20 PK | 74.00 | -28.80 | 1.43 V | 7 | 16.40 | 28.80 |
| 1 | 2016.00 | 40.90 AV | 54.00 | -13.10 | 1.43 V | 7 | 12.10 | 28.80 |
| 2 | 2390.00 | 60.40 PK | 74.00 | -13.60 | 1.10 V | 357 | 26.60 | 33.80 |
| 2 | 2390.00 | 52.50 AV | 54.00 | -1.50 | 1.10 V | 357 | 18.70 | 33.80 |
| 3 | *2412.00 | 119.10 PK | -- | -- | 1.09 V | 356 | 89.20 | 29.90 |
| 3 | *2412.00 | 111.60 AV | -- | -- | 1.09 V | 356 | 81.70 | 29.90 |
| 4 | 2688.00 | 39.60 PK | 74.00 | -34.40 | 1.47 V | 12 | 8.70 | 30.90 |
| 4 | 2688.00 | 35.40 AV | 54.00 | -18.60 | 1.47 V | 12 | 4.50 | 30.90 |
| 5 | 4824.00 | 46.30 PK | 74.00 | -27.70 | 1.11 V | 2 | 10.10 | 36.20 |
| 5 | 4824.00 | 37.60 AV | 54.00 | -16.40 | 1.11 V | 2 | 1.40 | 36.20 |
| 6 | 7236.00 | 45.50 PK | 74.00 | -28.50 | 1.47 V | 7 | 3.80 | 41.70 |
| 6 | 7236.00 | 38.50 AV | 54.00 | -15.50 | 1.47 V | 7 | -3.20 | 41.70 |
| 7 | 9648.00 | 48.80 PK | 74.00 | -25.20 | 1.38 V | 21 | 3.90 | 44.90 |
| 7 | 9648.00 | 38.20 AV | 54.00 | -15.80 | 1.38 V | 21 | -6.80 | 44.90 |

**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. The limit value is defined as per 15.247
6.“ * “ : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 39.40 PK | 74.00 | -34.60 | 1.11 H | 4 | 10.50 | 28.80 |
| 1 | 2016.00 | 33.90 AV | 54.00 | -20.10 | 1.11 H | 4 | 5.10 | 28.80 |
| 2 | 2390.00 | 44.10 PK | 74.00 | -29.90 | 1.13 H | 39 | 10.30 | 33.80 |
| 2 | 2390.00 | 36.90 AV | 54.00 | -17.10 | 1.13 H | 39 | 3.10 | 33.80 |
| 3 | *2437.00 | 109.00 PK | -- | -- | 1.13 H | 38 | 79.00 | 30.00 |
| 3 | *2437.00 | 101.20 AV | -- | -- | 1.13 H | 38 | 71.20 | 30.00 |
| 4 | 2483.50 | 43.20 PK | 74.00 | -30.80 | 1.10 H | 40 | 13.10 | 30.10 |
| 4 | 2483.50 | 36.00 AV | 54.00 | -18.00 | 1.10 H | 40 | 5.80 | 30.10 |
| 5 | 2688.00 | 39.10 PK | 74.00 | -34.90 | 1.21 H | 14 | 8.20 | 30.90 |
| 5 | 2688.00 | 34.40 AV | 54.00 | -19.60 | 1.21 H | 14 | 3.50 | 30.90 |
| 6 | 4874.00 | 47.40 PK | 74.00 | -26.60 | 1.24 H | 312 | 10.90 | 36.50 |
| 6 | 4874.00 | 36.60 AV | 54.00 | -17.40 | 1.24 H | 312 | 0.10 | 36.50 |
| 7 | 7311.00 | 48.10 PK | 74.00 | -25.90 | 1.28 H | 320 | 6.30 | 41.80 |
| 7 | 7311.00 | 39.70 AV | 54.00 | -14.30 | 1.28 H | 320 | -2.10 | 41.80 |
| 8 | 9748.00 | 47.10 PK | 74.00 | -26.90 | 1.30 H | 333 | 2.40 | 44.60 |
| 8 | 9748.00 | 37.20 AV | 54.00 | -16.80 | 1.30 H | 333 | -7.50 | 44.60 |

**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 | 2016.00 | 44.20 PK | 74.00 | -29.80 | 1.07 V | 1 | 15.40 | 28.80 |
| 1 | 2016.00 | 41.50 AV | 54.00 | -12.50 | 1.07 V | 1 | 12.70 | 28.80 |
| 2 | 2390.00 | 59.60 PK | 74.00 | -14.40 | 1.13 V | 359 | 25.80 | 33.80 |
| 2 | 2390.00 | 51.00 AV | 54.00 | -3.00 | 1.13 V | 359 | 17.20 | 33.80 |
| 3 | *2437.00 | 124.30 PK | -- | -- | 1.11 V | 356 | 94.30 | 30.00 |
| 3 | *2437.00 | 116.30 AV | -- | -- | 1.11 V | 356 | 86.30 | 30.00 |
| 4 | 2483.50 | 60.00 PK | 74.00 | -14.00 | 1.13 V | 360 | 29.90 | 30.10 |
| 4 | 2483.50 | 51.10 AV | 54.00 | -2.90 | 1.13 V | 360 | 21.00 | 30.10 |
| 5 | 2688.00 | 34.40 PK | 74.00 | -39.60 | 1.24 V | 214 | 3.50 | 30.90 |
| 5 | 2688.00 | 29.70 AV | 54.00 | -24.30 | 1.24 V | 214 | -1.20 | 30.90 |
| 6 | 4874.00 | 52.00 PK | 74.00 | -22.00 | 1.24 V | 15 | 15.50 | 36.50 |
| 6 | 4874.00 | 41.70 AV | 54.00 | -12.30 | 1.24 V | 15 | 5.20 | 36.50 |
| 7 | 7311.00 | 49.40 PK | 74.00 | -24.60 | 1.30 V | 22 | 7.60 | 41.80 |
| 7 | 7311.00 | 41.30 AV | 54.00 | -12.70 | 1.30 V | 22 | -0.50 | 41.80 |
| 8 | 9748.00 | 50.10 PK | 74.00 | -23.90 | 1.32 V | 20 | 5.40 | 44.60 |
| 8 | 9748.00 | 39.00 AV | 54.00 | -15.00 | 1.32 V | 20 | -5.70 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 33.80 PK | 74.00 | -40.20 | 1.41 H | 0 | 5.00 | 28.80 |
| 1 | 2016.00 | 29.30 AV | 54.00 | -24.70 | 1.41 H | 0 | 0.50 | 28.80 |
| 2 | *2462.00 | 103.70 PK | -- | -- | 1.11 H | 40 | 73.70 | 30.10 |
| 2 | *2462.00 | 96.30 AV | -- | -- | 1.11 H | 40 | 66.20 | 30.10 |
| 3 | 2483.50 | 44.20 PK | 74.00 | -29.80 | 1.10 H | 38 | 14.10 | 30.10 |
| 3 | 2483.50 | 37.40 AV | 54.00 | -16.60 | 1.10 H | 38 | 7.30 | 30.10 |
| 4 | 2688.00 | 34.60 PK | 74.00 | -39.40 | 1.14 H | 359 | 3.70 | 30.90 |
| 4 | 2688.00 | 30.50 AV | 54.00 | -23.50 | 1.14 H | 359 | -0.40 | 30.90 |
| 5 | 4924.00 | 43.20 PK | 74.00 | -30.80 | 1.23 H | 32 | 6.50 | 36.70 |
| 5 | 4924.00 | 34.80 AV | 54.00 | -19.20 | 1.23 H | 32 | -1.90 | 36.70 |
| 6 | 7386.00 | 46.70 PK | 74.00 | -27.30 | 1.57 H | 7 | 4.80 | 41.80 |
| 6 | 7386.00 | 37.90 AV | 54.00 | -16.10 | 1.57 H | 7 | -3.90 | 41.80 |
| 7 | 9848.00 | 49.40 PK | 74.00 | -24.60 | 1.20 H | 1 | 5.00 | 44.40 |
| 7 | 9848.00 | 38.00 AV | 54.00 | -16.00 | 1.20 H | 1 | -6.30 | 44.40 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2016.00 | 46.20 PK | 74.00 | -27.80 | 1.54 V | 24 | 17.40 | 28.80 |
| 1 | 2016.00 | 41.30 AV | 54.00 | -12.70 | 1.54 V | 24 | 12.50 | 28.80 |
| 2 | *2462.00 | 119.10 PK | -- | -- | 1.12 V | 355 | 89.10 | 30.10 |
| 2 | *2462.00 | 111.90 AV | -- | -- | 1.12 V | 355 | 81.80 | 30.10 |
| 3 | 2483.50 | 59.00 PK | 74.00 | -15.00 | 1.13 V | 356 | 28.90 | 30.10 |
| 3 | 2483.50 | 51.90 AV | 54.00 | -2.10 | 1.13 V | 356 | 21.80 | 30.10 |
| 4 | 2688.00 | 32.10 PK | 74.00 | -41.90 | 4.00 V | 2 | 1.20 | 30.90 |
| 4 | 2688.00 | 28.00 AV | 54.00 | -26.00 | 4.00 V | 2 | -2.90 | 30.90 |
| 5 | 4924.00 | 46.80 PK | 74.00 | -27.20 | 1.01 V | 11 | 10.10 | 36.70 |
| 5 | 4924.00 | 38.00 AV | 54.00 | -16.00 | 1.01 V | 11 | 1.30 | 36.70 |
| 6 | 7386.00 | 46.80 PK | 74.00 | -27.20 | 1.20 V | 19 | 4.90 | 41.80 |
| 6 | 7386.00 | 38.70 AV | 54.00 | -15.30 | 1.20 V | 19 | -3.20 | 41.80 |
| 7 | 9848.00 | 48.90 PK | 74.00 | -25.10 | 1.21 V | 41 | 4.50 | 44.40 |
| 7 | 9848.00 | 37.30 AV | 54.00 | -16.70 | 1.21 V | 41 | -7.00 | 44.40 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

## 4.2.25 TEST RESULTS (ANTENNA 10 – DSSS)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 1 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 33.50 PK | 74.00 | -40.50 | 1.24 H | 5 | 4.70 | 28.80 |
| 1 | 2016.00 | 28.80 AV | 54.00 | -25.20 | 1.24 H | 5 | 0.00 | 28.80 |
| 2 | 2390.00 | 43.50 PK | 74.00 | -30.50 | 1.11 H | 51 | 9.60 | 33.80 |
| 2 | 2390.00 | 35.00 AV | 54.00 | -19.00 | 1.11 H | 51 | 1.20 | 33.80 |
| 3 | *2412.00 | 99.60 PK | -- | -- | 1.60 H | 16 | 69.70 | 29.90 |
| 3 | *2412.00 | 92.10 AV | -- | -- | 1.60 H | 16 | 62.20 | 29.90 |
| 4 | 2688.00 | 36.00 PK | 74.00 | -38.00 | 1.08 H | 10 | 5.10 | 30.90 |
| 4 | 2688.00 | 27.60 AV | 54.00 | -26.40 | 1.08 H | 10 | -3.20 | 30.90 |
| 5 | 4824.00 | 42.60 PK | 74.00 | -31.40 | 1.00 H | 14 | 6.40 | 36.20 |
| 5 | 4824.00 | 34.80 AV | 54.00 | -19.20 | 1.00 H | 14 | -1.40 | 36.20 |
| 6 | 7236.00 | 45.90 PK | 74.00 | -28.10 | 1.43 H | 62 | 4.20 | 41.70 |
| 6 | 7236.00 | 37.60 AV | 54.00 | -16.40 | 1.43 H | 62 | -4.10 | 41.70 |
| 7 | 9648.00 | 47.60 PK | 74.00 | -26.40 | 1.53 H | 62 | 2.70 | 44.90 |
| 7 | 9648.00 | 39.10 AV | 54.00 | -14.90 | 1.53 H | 62 | -5.80 | 44.90 |

**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 | 2016.00 | 44.80 PK | 74.00 | -29.20 | 1.24 V | 356 | 15.90 | 28.80 |
| 1 | 2016.00 | 40.30 AV | 54.00 | -13.70 | 1.24 V | 356 | 11.50 | 28.80 |
| 2 | 2390.00 | 55.40 PK | 74.00 | -18.60 | 1.02 V | 359 | 21.60 | 33.80 |
| 2 | 2390.00 | 48.60 AV | 54.00 | -5.40 | 1.02 V | 359 | 14.80 | 33.80 |
| 3 | *2412.00 | 114.60 PK | -- | -- | 1.17 V | 7 | 84.70 | 29.90 |
| 3 | *2412.00 | 107.80 AV | -- | -- | 1.17 V | 7 | 77.90 | 29.90 |
| 4 | 2688.00 | 41.20 PK | 74.00 | -32.80 | 1.15 V | 9 | 10.30 | 30.90 |
| 4 | 2688.00 | 36.90 AV | 54.00 | -17.10 | 1.15 V | 9 | 6.00 | 30.90 |
| 5 | 4824.00 | 49.80 PK | 74.00 | -24.20 | 1.42 V | 2 | 13.50 | 36.20 |
| 5 | 4824.00 | 40.10 AV | 54.00 | -13.90 | 1.42 V | 2 | 3.90 | 36.20 |
| 6 | 7236.00 | 47.50 PK | 74.00 | -26.50 | 1.60 V | 350 | 5.80 | 41.70 |
| 6 | 7236.00 | 40.60 AV | 54.00 | -13.40 | 1.60 V | 350 | -1.10 | 41.70 |
| 7 | 9648.00 | 50.40 PK | 74.00 | -23.60 | 1.00 V | 1 | 5.50 | 44.90 |
| 7 | 9648.00 | 40.10 AV | 54.00 | -13.90 | 1.00 V | 1 | -4.80 | 44.90 |

**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. The limit value is defined as per 15.247
6.“ * “ : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 38.80 PK | 74.00 | -35.20 | 1.20 H | 1 | 10.00 | 28.80 |
| 1 | 2016.00 | 33.80 AV | 54.00 | -20.20 | 1.20 H | 1 | 5.00 | 28.80 |
| 2 | 2390.00 | 40.80 PK | 74.00 | -33.20 | 1.14 H | 21 | 7.00 | 33.80 |
| 2 | 2390.00 | 32.60 AV | 54.00 | -21.40 | 1.14 H | 21 | -1.20 | 33.80 |
| 3 | *2437.00 | 105.10 PK | -- | -- | 1.24 H | 38 | 75.10 | 30.00 |
| 3 | *2437.00 | 97.30 AV | -- | -- | 1.24 H | 38 | 67.30 | 30.00 |
| 4 | 2483.50 | 39.40 PK | 74.00 | -34.60 | 1.53 H | 6 | 9.20 | 30.10 |
| 4 | 2483.50 | 32.90 AV | 54.00 | -21.10 | 1.53 H | 6 | 2.80 | 30.10 |
| 5 | 2688.00 | 39.70 PK | 74.00 | -34.30 | 1.68 H | 65 | 8.80 | 30.90 |
| 5 | 2688.00 | 32.60 AV | 54.00 | -21.40 | 1.68 H | 65 | 1.70 | 30.90 |
| 6 | 4874.00 | 43.30 PK | 74.00 | -30.70 | 1.11 H | 47 | 6.80 | 36.50 |
| 6 | 4874.00 | 36.20 AV | 54.00 | -17.80 | 1.11 H | 47 | -0.20 | 36.50 |
| 7 | 7311.00 | 47.00 PK | 74.00 | -27.00 | 1.76 H | 246 | 5.20 | 41.80 |
| 7 | 7311.00 | 40.00 AV | 54.00 | -14.00 | 1.76 H | 246 | -1.80 | 41.80 |
| 8 | 9748.00 | 47.60 PK | 74.00 | -26.40 | 1.53 H | 62 | 2.90 | 44.60 |
| 8 | 9748.00 | 39.10 AV | 54.00 | -14.90 | 1.53 H | 62 | -5.50 | 44.60 |

**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 | 2016.00 | 47.90 PK | 74.00 | -26.10 | 1.45 V | 357 | 19.00 | 28.80 |
| 1 | 2016.00 | 44.40 AV | 54.00 | -9.60 | 1.45 V | 357 | 15.60 | 28.80 |
| 2 | 2390.00 | 56.20 PK | 74.00 | -17.80 | 1.47 V | 7 | 22.40 | 33.80 |
| 2 | 2390.00 | 48.80 AV | 54.00 | -5.20 | 1.47 V | 7 | 15.00 | 33.80 |
| 3 | *2437.00 | 121.10 PK | -- | -- | 1.18 V | 8 | 91.20 | 30.00 |
| 3 | *2437.00 | 113.70 AV | -- | -- | 1.18 V | 8 | 83.70 | 30.00 |
| 4 | 2483.50 | 50.70 PK | 74.00 | -23.30 | 1.20 V | 2 | 20.60 | 30.10 |
| 4 | 2483.50 | 43.30 AV | 54.00 | -10.70 | 1.20 V | 2 | 13.20 | 30.10 |
| 5 | 2688.00 | 44.10 PK | 74.00 | -29.90 | 1.19 V | 10 | 13.20 | 30.90 |
| 5 | 2688.00 | 39.70 AV | 54.00 | -14.30 | 1.19 V | 10 | 8.80 | 30.90 |
| 6 | 4874.00 | 53.90 PK | 74.00 | -20.10 | 1.47 V | 0 | 17.50 | 36.50 |
| 6 | 4874.00 | 43.90 AV | 54.00 | -10.10 | 1.47 V | 0 | 7.50 | 36.50 |
| 7 | 7311.00 | 50.70 PK | 74.00 | -23.30 | 1.64 V | 9 | 8.90 | 41.80 |
| 7 | 7311.00 | 42.90 AV | 54.00 | -11.10 | 1.64 V | 9 | 1.10 | 41.80 |
| 8 | 9748.00 | 47.80 PK | 74.00 | -26.20 | 1.02 V | 356 | 3.10 | 44.60 |
| 8 | 9748.00 | 40.80 AV | 54.00 | -13.20 | 1.02 V | 356 | -3.80 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 11 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 38.50 PK | 74.00 | -35.50 | 1.42 H | 36 | 9.70 | 28.80 |
| 1 | 2016.00 | 33.80 AV | 54.00 | -20.20 | 1.42 H | 36 | 5.00 | 28.80 |
| 2 | *2462.00 | 101.20 PK | -- | -- | 1.50 H | 20 | 71.10 | 30.10 |
| 2 | *2462.00 | 93.30 AV | -- | -- | 1.50 H | 20 | 63.20 | 30.10 |
| 3 | 2483.50 | 38.20 PK | 74.00 | -35.80 | 1.42 H | 4 | 8.10 | 30.10 |
| 3 | 2483.50 | 30.40 AV | 54.00 | -23.60 | 1.42 H | 4 | 0.20 | 30.10 |
| 4 | 2688.00 | 35.60 PK | 74.00 | -38.40 | 1.65 H | 36 | 4.70 | 30.90 |
| 4 | 2688.00 | 29.60 AV | 54.00 | -24.40 | 1.65 H | 36 | -1.20 | 30.90 |
| 5 | 4924.00 | 41.70 PK | 74.00 | -32.30 | 1.00 H | 7 | 5.00 | 36.70 |
| 5 | 4924.00 | 35.70 AV | 54.00 | -18.30 | 1.00 H | 7 | -1.00 | 36.70 |
| 6 | 7386.00 | 46.20 PK | 74.00 | -27.80 | 1.08 H | 24 | 4.40 | 41.80 |
| 6 | 7386.00 | 36.90 AV | 54.00 | -17.10 | 1.08 H | 24 | -4.90 | 41.80 |
| 7 | 9848.00 | 48.20 PK | 74.00 | -25.80 | 1.11 H | 11 | 3.90 | 44.40 |
| 7 | 9848.00 | 38.90 AV | 54.00 | -15.10 | 1.11 H | 11 | -5.50 | 44.40 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2016.00 | 49.30 PK | 74.00 | -24.70 | 1.11 V | 356 | 20.50 | 28.80 |
| 1 | 2016.00 | 45.00 AV | 54.00 | -9.00 | 1.11 V | 356 | 16.20 | 28.80 |
| 2 | *2462.00 | 117.10 PK | -- | -- | 1.17 V | 9 | 87.10 | 30.10 |
| 2 | *2462.00 | 109.80 AV | -- | -- | 1.17 V | 9 | 79.70 | 30.10 |
| 3 | 2483.50 | 57.20 PK | 74.00 | -16.80 | 1.08 V | 2 | 27.10 | 30.10 |
| 3 | 2483.50 | 49.40 AV | 54.00 | -4.60 | 1.08 V | 2 | 19.30 | 30.10 |
| 4 | 2688.00 | 41.70 PK | 74.00 | -32.30 | 1.09 V | 8 | 10.80 | 30.90 |
| 4 | 2688.00 | 36.40 AV | 54.00 | -17.60 | 1.09 V | 8 | 5.50 | 30.90 |
| 5 | 4924.00 | 49.10 PK | 74.00 | -24.90 | 1.52 V | 2 | 12.40 | 36.70 |
| 5 | 4924.00 | 40.20 AV | 54.00 | -13.80 | 1.52 V | 2 | 3.50 | 36.70 |
| 6 | 7386.00 | 47.90 PK | 74.00 | -26.10 | 1.47 V | 357 | 6.00 | 41.80 |
| 6 | 7386.00 | 40.90 AV | 54.00 | -13.10 | 1.47 V | 357 | -1.00 | 41.80 |
| 7 | 9848.00 | 47.70 PK | 74.00 | -26.30 | 1.01 V | 1 | 3.30 | 44.40 |
| 7 | 9848.00 | 38.30 AV | 54.00 | -15.70 | 1.01 V | 1 | -6.10 | 44.40 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

## 4.2.26 TEST RESULTS (ANTENNA 3 –OFDM)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 1 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 30.00 PK | 74.00 | -44.00 | 1.14 H | 58 | 1.20 | 28.80 |
| 1 | 2016.00 | 25.80 AV | 54.00 | -28.20 | 1.14 H | 58 | -3.00 | 28.80 |
| 2 | 2390.00 | 44.90 PK | 74.00 | -29.10 | 1.10 H | 333 | 11.10 | 33.80 |
| 2 | 2390.00 | 36.70 AV | 54.00 | -17.30 | 1.10 H | 333 | 2.90 | 33.80 |
| 3 | *2412.00 | 97.20 PK | -- | -- | 1.09 H | 337 | 67.30 | 29.90 |
| 3 | *2412.00 | 88.50 AV | -- | -- | 1.09 H | 337 | 58.60 | 29.90 |
| 4 | 2688.00 | 30.60 PK | 74.00 | -43.40 | 1.41 H | 10 | -0.20 | 30.90 |
| 4 | 2688.00 | 25.10 AV | 54.00 | -28.90 | 1.41 H | 10 | -5.80 | 30.90 |
| 5 | 4824.00 | 38.80 PK | 74.00 | -35.20 | 1.02 H | 12 | 2.60 | 36.20 |
| 5 | 4824.00 | 30.40 AV | 54.00 | -23.60 | 1.02 H | 12 | -5.80 | 36.20 |
| 6 | 7236.00 | 44.50 PK | 74.00 | -29.50 | 1.32 H | 6 | 2.90 | 41.70 |
| 6 | 7236.00 | 34.50 AV | 54.00 | -19.50 | 1.32 H | 6 | -7.20 | 41.70 |
| 7 | 9648.00 | 46.80 PK | 74.00 | -27.20 | 1.00 H | 356 | 1.90 | 44.90 |
| 7 | 9648.00 | 38.30 AV | 54.00 | -15.70 | 1.00 H | 356 | -6.60 | 44.90 |

**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 | 2016.00 | 42.10 PK | 74.00 | -31.90 | 1.43 V | 5 | 13.30 | 28.80 |
| 1 | 2016.00 | 38.20 AV | 54.00 | -15.80 | 1.43 V | 5 | 9.40 | 28.80 |
| 2 | 2390.00 | 60.40 PK | 74.00 | -13.60 | 1.18 V | 356 | 26.60 | 33.80 |
| 2 | 2390.00 | 51.30 AV | 54.00 | -2.70 | 1.18 V | 356 | 17.50 | 33.80 |
| 3 | *2412.00 | 112.80 PK | -- | -- | 1.17 V | 355 | 82.90 | 29.90 |
| 3 | *2412.00 | 103.40 AV | -- | -- | 1.17 V | 355 | 73.50 | 29.90 |
| 4 | 2688.00 | 38.90 PK | 74.00 | -35.10 | 1.04 V | 352 | 8.10 | 30.90 |
| 4 | 2688.00 | 32.70 AV | 54.00 | -21.30 | 1.04 V | 352 | 1.80 | 30.90 |
| 5 | 4824.00 | 41.30 PK | 74.00 | -32.70 | 1.14 V | 2 | 5.10 | 36.20 |
| 5 | 4824.00 | 34.40 AV | 54.00 | -19.60 | 1.14 V | 2 | -1.80 | 36.20 |
| 6 | 7236.00 | 46.40 PK | 74.00 | -27.60 | 1.47 V | 359 | 4.70 | 41.70 |
| 6 | 7236.00 | 37.80 AV | 54.00 | -16.20 | 1.47 V | 359 | -3.90 | 41.70 |
| 7 | 9648.00 | 47.40 PK | 74.00 | -26.60 | 1.24 V | 7 | 2.50 | 44.90 |
| 7 | 9648.00 | 40.10 AV | 54.00 | -13.90 | 1.24 V | 7 | -4.80 | 44.90 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 39.90 PK | 74.00 | -34.10 | 1.13 H | 58 | 11.10 | 28.80 |
| 1 | 2016.00 | 34.50 AV | 54.00 | -19.50 | 1.13 H | 58 | 5.70 | 28.80 |
| 2 | 2390.00 | 44.30 PK | 74.00 | -29.70 | 1.10 H | 335 | 10.50 | 33.80 |
| 2 | 2390.00 | 35.10 AV | 54.00 | -18.90 | 1.10 H | 335 | 1.30 | 33.80 |
| 3 | *2437.00 | 103.10 PK | -- | -- | 1.10 H | 336 | 73.10 | 30.00 |
| 3 | *2437.00 | 95.40 AV | -- | -- | 1.10 H | 336 | 65.40 | 30.00 |
| 4 | 2483.50 | 43.70 PK | 74.00 | -30.30 | 1.11 H | 335 | 13.60 | 30.10 |
| 4 | 2483.50 | 34.40 AV | 54.00 | -19.60 | 1.11 H | 335 | 4.30 | 30.10 |
| 5 | 2688.00 | 33.50 PK | 74.00 | -40.50 | 1.20 H | 352 | 2.60 | 30.90 |
| 5 | 2688.00 | 27.70 AV | 54.00 | -26.30 | 1.20 H | 352 | -3.20 | 30.90 |
| 6 | 4874.00 | 39.60 PK | 74.00 | -34.40 | 1.54 H | 21 | 3.10 | 36.50 |
| 6 | 4874.00 | 31.60 AV | 54.00 | -22.40 | 1.54 H | 21 | -4.90 | 36.50 |
| 7 | 7311.00 | 43.50 PK | 74.00 | -30.50 | 1.07 H | 14 | 1.70 | 41.80 |
| 7 | 7311.00 | 36.50 AV | 54.00 | -17.50 | 1.07 H | 14 | -5.30 | 41.80 |
| 8 | 9748.00 | 47.20 PK | 74.00 | -26.80 | 1.01 H | 357 | 2.50 | 44.60 |
| 8 | 9748.00 | 37.10 AV | 54.00 | -16.90 | 1.01 H | 357 | -7.60 | 44.60 |

**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 | 2016.00 | 50.40 PK | 74.00 | -23.60 | 1.13 V | 8 | 21.60 | 28.80 |
| 1 | 2016.00 | 47.30 AV | 54.00 | -6.70 | 1.13 V | 8 | 18.50 | 28.80 |
| 2 | 2390.00 | 60.00 PK | 74.00 | -14.00 | 1.17 V | 360 | 26.20 | 33.80 |
| 2 | 2390.00 | 50.90 AV | 54.00 | -3.10 | 1.17 V | 360 | 17.10 | 33.80 |
| 3 | *2437.00 | 118.50 PK | -- | -- | 1.16 V | 353 | 88.50 | 30.00 |
| 3 | *2437.00 | 110.50 AV | -- | -- | 1.16 V | 353 | 80.50 | 30.00 |
| 4 | 2483.50 | 59.70 PK | 74.00 | -14.30 | 1.18 V | 352 | 29.50 | 30.10 |
| 4 | 2483.50 | 51.00 AV | 54.00 | -3.00 | 1.18 V | 352 | 20.90 | 30.10 |
| 5 | 2688.00 | 43.40 PK | 74.00 | -30.60 | 1.55 V | 357 | 12.50 | 30.90 |
| 5 | 2688.00 | 38.40 AV | 54.00 | -15.60 | 1.55 V | 357 | 7.60 | 30.90 |
| 6 | 4874.00 | 48.60 PK | 74.00 | -25.40 | 1.01 V | 4 | 12.10 | 36.50 |
| 6 | 4874.00 | 40.60 AV | 54.00 | -13.40 | 1.01 V | 4 | 4.10 | 36.50 |
| 7 | 7311.00 | 46.60 PK | 74.00 | -27.40 | 1.11 V | 14 | 4.80 | 41.80 |
| 7 | 7311.00 | 39.70 AV | 54.00 | -14.30 | 1.11 V | 14 | -2.10 | 41.80 |
| 8 | 9748.00 | 48.20 PK | 74.00 | -25.80 | 1.09 V | 356 | 3.60 | 44.60 |
| 8 | 9748.00 | 39.30 AV | 54.00 | -14.70 | 1.09 V | 356 | -5.40 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 11 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 35.90 PK | 74.00 | -38.10 | 1.15 H | 60 | 7.10 | 28.80 |
| 1 | 2016.00 | 29.90 AV | 54.00 | -24.10 | 1.15 H | 60 | 1.10 | 28.80 |
| 2 | *2462.00 | 97.80 PK | -- | -- | 1.10 H | 336 | 67.70 | 30.10 |
| 2 | *2462.00 | 89.00 AV | -- | -- | 1.10 H | 336 | 58.90 | 30.10 |
| 3 | 2483.50 | 43.90 PK | 74.00 | -30.10 | 1.11 H | 333 | 13.80 | 30.10 |
| 3 | 2483.50 | 36.20 AV | 54.00 | -17.80 | 1.11 H | 333 | 6.00 | 30.10 |
| 4 | 2688.00 | 32.50 PK | 74.00 | -41.50 | 1.08 H | 356 | 1.60 | 30.90 |
| 4 | 2688.00 | 26.70 AV | 54.00 | -27.30 | 1.08 H | 356 | -4.20 | 30.90 |
| 5 | 4924.00 | 38.90 PK | 74.00 | -35.10 | 1.42 H | 314 | 2.20 | 36.70 |
| 5 | 4924.00 | 31.80 AV | 54.00 | -22.20 | 1.42 H | 314 | -4.90 | 36.70 |
| 6 | 7386.00 | 44.70 PK | 74.00 | -29.30 | 1.08 H | 360 | 2.80 | 41.80 |
| 6 | 7386.00 | 35.90 AV | 54.00 | -18.10 | 1.08 H | 360 | -5.90 | 41.80 |
| 7 | 9848.00 | 46.40 PK | 74.00 | -27.60 | 1.54 H | 14 | 2.10 | 44.40 |
| 7 | 9848.00 | 36.50 AV | 54.00 | -17.50 | 1.54 H | 14 | -7.90 | 44.40 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2016.00 | 47.90 PK | 74.00 | -26.10 | 1.42 V | 5 | 19.10 | 28.80 |
| 1 | 2016.00 | 44.50 AV | 54.00 | -9.50 | 1.42 V | 5 | 15.60 | 28.80 |
| 2 | *2462.00 | 112.00 PK | -- | -- | 1.17 V | 353 | 81.90 | 30.10 |
| 2 | *2462.00 | 103.10 AV | -- | -- | 1.17 V | 353 | 73.00 | 30.10 |
| 3 | 2483.50 | 59.80 PK | 74.00 | -14.20 | 1.18 V | 354 | 29.70 | 30.10 |
| 3 | 2483.50 | 51.20 AV | 54.00 | -2.80 | 1.18 V | 354 | 21.10 | 30.10 |
| 4 | 2688.00 | 41.40 PK | 74.00 | -32.60 | 1.08 V | 340 | 10.50 | 30.90 |
| 4 | 2688.00 | 34.90 AV | 54.00 | -19.10 | 1.08 V | 340 | 4.10 | 30.90 |
| 5 | 4924.00 | 41.70 PK | 74.00 | -32.30 | 1.10 V | 0 | 5.00 | 36.70 |
| 5 | 4924.00 | 33.80 AV | 54.00 | -20.20 | 1.10 V | 0 | -2.90 | 36.70 |
| 6 | 7386.00 | 46.30 PK | 74.00 | -27.70 | 1.24 V | 12 | 4.40 | 41.80 |
| 6 | 7386.00 | 36.80 AV | 54.00 | -17.20 | 1.24 V | 12 | -5.00 | 41.80 |
| 7 | 9848.00 | 48.90 PK | 74.00 | -25.10 | 1.02 V | 21 | 4.50 | 44.40 |
| 7 | 9848.00 | 39.30 AV | 54.00 | -14.70 | 1.02 V | 21 | -5.00 | 44.40 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Turbo Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 36.90 PK | 74.00 | -37.10 | 1.42 H | 14 | 8.10 | 28.80 |
| 1 | 2016.00 | 31.50 AV | 54.00 | -22.50 | 1.42 H | 14 | 2.70 | 28.80 |
| 2 | 2390.00 | 44.90 PK | 74.00 | -29.10 | 1.15 H | 337 | 11.10 | 33.80 |
| 2 | 2390.00 | 35.30 AV | 54.00 | -18.70 | 1.15 H | 337 | 1.50 | 33.80 |
| 3 | *2437.00 | 96.10 PK | -- | -- | 1.14 H | 335 | 66.10 | 30.00 |
| 3 | *2437.00 | 88.10 AV | -- | -- | 1.14 H | 335 | 58.10 | 30.00 |
| 4 | 2483.50 | 43.90 PK | 74.00 | -30.10 | 1.15 H | 337 | 13.80 | 30.10 |
| 4 | 2483.50 | 34.70 AV | 54.00 | -19.30 | 1.15 H | 337 | 4.60 | 30.10 |
| 5 | 2688.00 | 31.50 PK | 74.00 | -42.50 | 1.11 H | 47 | 0.60 | 30.90 |
| 5 | 2688.00 | 24.60 AV | 54.00 | -29.40 | 1.11 H | 47 | -6.30 | 30.90 |
| 6 | 4874.00 | 38.50 PK | 74.00 | -35.50 | 1.20 H | 14 | 2.10 | 36.50 |
| 6 | 4874.00 | 31.60 AV | 54.00 | -22.40 | 1.20 H | 14 | -4.90 | 36.50 |
| 7 | 7311.00 | 44.40 PK | 74.00 | -29.60 | 1.02 H | 1 | 2.70 | 41.80 |
| 7 | 7311.00 | 36.70 AV | 54.00 | -17.30 | 1.02 H | 1 | -5.10 | 41.80 |
| 8 | 9748.00 | 46.20 PK | 74.00 | -27.80 | 1.07 H | 8 | 1.50 | 44.60 |
| 8 | 9748.00 | 38.10 AV | 54.00 | -15.90 | 1.07 H | 8 | -6.50 | 44.60 |

**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 | 2016.00 | 46.90 PK | 74.00 | -27.10 | 1.40 V | 9 | 18.10 | 28.80 |
| 1 | 2016.00 | 44.40 AV | 54.00 | -9.60 | 1.40 V | 9 | 15.60 | 28.80 |
| 2 | 2390.00 | 60.00 PK | 74.00 | -14.00 | 1.15 V | 352 | 26.20 | 33.80 |
| 2 | 2390.00 | 51.00 AV | 54.00 | -3.00 | 1.15 V | 352 | 17.20 | 33.80 |
| 3 | *2437.00 | 111.40 PK | -- | -- | 1.16 V | 351 | 81.40 | 30.00 |
| 3 | *2437.00 | 103.60 AV | -- | -- | 1.16 V | 351 | 73.60 | 30.00 |
| 4 | 2483.50 | 60.00 PK | 74.00 | -14.00 | 1.15 V | 350 | 29.90 | 30.10 |
| 4 | 2483.50 | 50.90 AV | 54.00 | -3.10 | 1.15 V | 350 | 20.80 | 30.10 |
| 5 | 2688.00 | 43.50 PK | 74.00 | -30.50 | 1.30 V | 336 | 12.60 | 30.90 |
| 5 | 2688.00 | 37.30 AV | 54.00 | -16.70 | 1.30 V | 336 | 6.50 | 30.90 |
| 6 | 4874.00 | 46.50 PK | 74.00 | -27.50 | 1.01 V | 47 | 10.10 | 36.50 |
| 6 | 4874.00 | 37.90 AV | 54.00 | -16.10 | 1.01 V | 47 | 1.40 | 36.50 |
| 7 | 7311.00 | 46.50 PK | 74.00 | -27.50 | 1.04 V | 21 | 4.80 | 41.80 |
| 7 | 7311.00 | 38.70 AV | 54.00 | -15.30 | 1.04 V | 21 | -3.10 | 41.80 |
| 8 | 9748.00 | 48.00 PK | 74.00 | -26.00 | 1.09 V | 2 | 3.40 | 44.60 |
| 8 | 9748.00 | 39.20 AV | 54.00 | -14.80 | 1.09 V | 2 | -5.50 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

## 4.2.27 TEST RESULTS (ANTENNA 5 –OFDM)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 1 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 41.70 PK | 74.00 | -32.30 | 1.40 H | 10 | 12.90 | 28.80 |
| 1 | 2016.00 | 36.90 AV | 54.00 | -17.10 | 1.40 H | 10 | 8.10 | 28.80 |
| 2 | 2390.00 | 40.50 PK | 74.00 | -33.50 | 1.20 H | 359 | 6.70 | 33.80 |
| 2 | 2390.00 | 30.80 AV | 54.00 | -23.20 | 1.20 H | 359 | -3.00 | 33.80 |
| 3 | *2412.00 | 95.30 PK | -- | -- | 1.17 H | 355 | 65.40 | 29.90 |
| 3 | *2412.00 | 87.40 AV | -- | -- | 1.17 H | 355 | 57.50 | 29.90 |
| 4 | 2688.00 | 37.50 PK | 74.00 | -36.50 | 1.01 H | 1 | 6.60 | 30.90 |
| 4 | 2688.00 | 31.90 AV | 54.00 | -22.10 | 1.01 H | 1 | 1.10 | 30.90 |
| 5 | 4824.00 | 37.70 PK | 74.00 | -36.30 | 1.21 H | 1 | 1.50 | 36.20 |
| 5 | 4824.00 | 30.40 AV | 54.00 | -23.60 | 1.21 H | 1 | -5.80 | 36.20 |
| 6 | 7236.00 | 45.80 PK | 74.00 | -28.20 | 1.40 H | 354 | 4.20 | 41.70 |
| 6 | 7236.00 | 36.50 AV | 54.00 | -17.50 | 1.40 H | 354 | -5.20 | 41.70 |
| 7 | 9648.00 | 47.10 PK | 74.00 | -26.90 | 1.10 H | 12 | 2.20 | 44.90 |
| 7 | 9648.00 | 37.40 AV | 54.00 | -16.60 | 1.10 H | 12 | -7.50 | 44.90 |

**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 | 2016.00 | 53.30 PK | 74.00 | -20.70 | 1.93 V | 52 | 24.50 | 28.80 |
| 1 | 2016.00 | 52.10 AV | 54.00 | -1.90 | 1.93 V | 52 | 23.30 | 28.80 |
| 2 | 2390.00 | 59.80 PK | 74.00 | -14.20 | 1.25 V | 35 | 26.00 | 33.80 |
| 2 | 2390.00 | 50.80 AV | 54.00 | -3.20 | 1.25 V | 35 | 17.00 | 33.80 |
| 3 | *2412.00 | 111.40 PK | -- | -- | 1.23 V | 19 | 81.50 | 29.90 |
| 3 | *2412.00 | 102.90 AV | -- | -- | 1.23 V | 19 | 73.00 | 29.90 |
| 4 | 2688.00 | 46.90 PK | 74.00 | -27.10 | 1.44 V | 333 | 16.10 | 30.90 |
| 4 | 2688.00 | 41.60 AV | 54.00 | -12.40 | 1.44 V | 333 | 10.80 | 30.90 |
| 5 | 4824.00 | 43.40 PK | 74.00 | -30.60 | 1.60 V | 2 | 7.20 | 36.20 |
| 5 | 4824.00 | 34.40 AV | 54.00 | -19.60 | 1.60 V | 2 | -1.80 | 36.20 |
| 6 | 7236.00 | 45.40 PK | 74.00 | -28.60 | 1.11 V | 14 | 3.80 | 41.70 |
| 6 | 7236.00 | 36.50 AV | 54.00 | -17.50 | 1.11 V | 14 | -5.20 | 41.70 |
| 7 | 9648.00 | 47.40 PK | 74.00 | -26.60 | 1.60 V | 9 | 2.50 | 44.90 |
| 7 | 9648.00 | 38.30 AV | 54.00 | -15.70 | 1.60 V | 9 | -6.60 | 44.90 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH,<br>977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 45.90 PK | 79.20 | -33.30 | 1.60 H | 2 | 17.10 | 28.80 |
| 1 | 2016.00 | 41.90 AV | 71.70 | -29.80 | 1.60 H | 2 | 13.10 | 28.80 |
| 2 | 2390.00 | 40.50 PK | 74.00 | -33.50 | 1.16 H | 359 | 6.70 | 33.80 |
| 2 | 2390.00 | 32.40 AV | 54.00 | -21.60 | 1.16 H | 359 | -1.40 | 33.80 |
| 3 | *2437.00 | 99.20 PK | -- | -- | 1.17 H | 356 | 69.20 | 30.00 |
| 3 | *2437.00 | 91.70 AV | -- | -- | 1.17 H | 356 | 61.70 | 30.00 |
| 4 | 2483.50 | 37.60 PK | 74.00 | -36.40 | 1.16 H | 359 | 7.50 | 30.10 |
| 4 | 2483.50 | 30.80 AV | 54.00 | -23.20 | 1.16 H | 359 | 0.70 | 30.10 |
| 5 | 2688.00 | 36.70 PK | 74.00 | -37.30 | 1.11 H | 4 | 5.80 | 30.90 |
| 5 | 2688.00 | 32.90 AV | 54.00 | -21.10 | 1.11 H | 4 | 2.10 | 30.90 |
| 6 | 4874.00 | 39.50 PK | 74.00 | -34.50 | 1.53 H | 62 | 3.00 | 36.50 |
| 6 | 4874.00 | 31.60 AV | 54.00 | -22.40 | 1.53 H | 62 | -4.90 | 36.50 |
| 7 | 7311.00 | 44.40 PK | 74.00 | -29.60 | 1.11 H | 8 | 2.70 | 41.80 |
| 7 | 7311.00 | 36.30 AV | 54.00 | -17.70 | 1.11 H | 8 | -5.50 | 41.80 |
| 8 | 9748.00 | 48.60 PK | 74.00 | -25.40 | 1.68 H | 6 | 4.00 | 44.60 |
| 8 | 9748.00 | 38.80 AV | 54.00 | -15.20 | 1.68 H | 6 | -5.90 | 44.60 |

**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 | 2016.00 | 59.80 PK | 97.00 | -37.2 | 1.88 V | 44 | 31.00 | 28.80 |
| 1 | 2016.00 | 55.90 AV | 89.20 | -33.3 | 1.88 V | 44 | 27.10 | 28.80 |
| 2 | 2390.00 | 60.00 PK | 74.00 | -14.00 | 1.20 V | 13 | 26.20 | 33.80 |
| 2 | 2390.00 | 51.60 AV | 54.00 | -2.40 | 1.20 V | 13 | 17.80 | 33.80 |
| 3 | *2437.00 | 117.00 PK | -- | -- | 1.14 V | 30 | 87.00 | 30.00 |
| 3 | *2437.00 | 109.20 AV | -- | -- | 1.14 V | 30 | 79.20 | 30.00 |
| 4 | 2483.50 | 57.00 PK | 74.00 | -17.00 | 1.20 V | 354 | 26.90 | 30.10 |
| 4 | 2483.50 | 48.40 AV | 54.00 | -5.60 | 1.20 V | 354 | 18.30 | 30.10 |
| 5 | 2688.00 | 49.80 PK | 74.00 | -24.20 | 1.50 V | 352 | 18.90 | 30.90 |
| 5 | 2688.00 | 46.30 AV | 54.00 | -7.70 | 1.50 V | 352 | 15.40 | 30.90 |
| 6 | 4874.00 | 47.60 PK | 74.00 | -26.40 | 1.43 V | 65 | 11.10 | 36.50 |
| 6 | 4874.00 | 36.90 AV | 54.00 | -17.10 | 1.43 V | 65 | 0.40 | 36.50 |
| 7 | 7311.00 | 49.70 PK | 74.00 | -24.30 | 1.60 V | 1 | 7.90 | 41.80 |
| 7 | 7311.00 | 40.90 AV | 54.00 | -13.10 | 1.60 V | 1 | -0.90 | 41.80 |
| 8 | 9748.00 | 49.70 PK | 74.00 | -24.30 | 1.74 V | 356 | 5.10 | 44.60 |
| 8 | 9748.00 | 40.50 AV | 54.00 | -13.50 | 1.74 V | 356 | -4.10 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 11 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 42.70 PK | 73.20 | -30.50 | 1.74 H | 32 | 13.90 | 28.80 |
| 1 | 2016.00 | 37.90 AV | 65.00 | -27.10 | 1.74 H | 32 | 9.10 | 28.80 |
| 2 | *2462.00 | 93.20 PK | -- | -- | 1.18 H | 353 | 63.10 | 30.10 |
| 2 | *2462.00 | 85.00 AV | -- | -- | 1.18 H | 353 | 54.90 | 30.10 |
| 3 | 2483.50 | 41.00 PK | 74.00 | -33.00 | 1.11 H | 40 | 10.90 | 30.10 |
| 3 | 2483.50 | 32.10 AV | 54.00 | -21.90 | 1.11 H | 40 | 2.00 | 30.10 |
| 4 | 2688.00 | 34.40 PK | 74.00 | -39.60 | 1.20 H | 2 | 3.50 | 30.90 |
| 4 | 2688.00 | 28.70 AV | 54.00 | -25.30 | 1.20 H | 2 | -2.20 | 30.90 |
| 5 | 4924.00 | 39.60 PK | 74.00 | -34.40 | 1.52 H | 20 | 2.90 | 36.70 |
| 5 | 4924.00 | 30.90 AV | 54.00 | -23.10 | 1.52 H | 20 | -5.80 | 36.70 |
| 6 | 7386.00 | 44.30 PK | 74.00 | -29.70 | 1.43 H | 340 | 2.50 | 41.80 |
| 6 | 7386.00 | 37.20 AV | 54.00 | -16.80 | 1.43 H | 340 | -4.70 | 41.80 |
| 7 | 9848.00 | 46.80 PK | 74.00 | -27.20 | 1.10 H | 1 | 2.40 | 44.40 |
| 7 | 9848.00 | 37.00 AV | 54.00 | -17.00 | 1.10 H | 1 | -7.30 | 44.40 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2016.00 | 56.40 PK | 91.00 | -34.6 | 1.53 V | 51 | 27.60 | 28.80 |
| 1 | 2016.00 | 54.60 AV | 82.90 | -28.3 | 1.53 V | 51 | 25.80 | 28.80 |
| 2 | *2462.00 | 111.00 PK | -- | -- | 1.17 V | 347 | 80.90 | 30.10 |
| 2 | *2462.00 | 102.90 AV | -- | -- | 1.17 V | 347 | 72.80 | 30.10 |
| 3 | 2483.50 | 60.80 PK | 74.00 | -13.20 | 1.20 V | 350 | 30.70 | 30.10 |
| 3 | 2483.50 | 52.00 AV | 54.00 | -2.00 | 1.20 V | 350 | 21.90 | 30.10 |
| 4 | 2688.00 | 47.20 PK | 74.00 | -26.80 | 1.43 V | 16 | 16.30 | 30.90 |
| 4 | 2688.00 | 42.80 AV | 54.00 | -11.20 | 1.43 V | 16 | 11.90 | 30.90 |
| 5 | 4924.00 | 43.10 PK | 74.00 | -30.90 | 1.40 V | 1 | 6.50 | 36.70 |
| 5 | 4924.00 | 34.80 AV | 54.00 | -19.20 | 1.40 V | 1 | -1.90 | 36.70 |
| 6 | 7386.00 | 45.50 PK | 74.00 | -28.50 | 1.74 V | 7 | 3.60 | 41.80 |
| 6 | 7386.00 | 37.20 AV | 54.00 | -16.80 | 1.74 V | 7 | -4.60 | 41.80 |
| 7 | 9848.00 | 48.50 PK | 74.00 | -25.50 | 1.02 V | 9 | 4.10 | 44.40 |
| 7 | 9848.00 | 39.00 AV | 54.00 | -15.00 | 1.02 V | 9 | -5.30 | 44.40 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Turbo Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 42.90 PK | 72.30 | -29.40 | 1.53 H | 62 | 14.10 | 28.80 |
| 1 | 2016.00 | 40.90 AV | 64.80 | -23.90 | 1.53 H | 62 | 12.10 | 28.80 |
| 2 | 2390.00 | 40.80 PK | 74.00 | -33.20 | 1.53 H | 62 | 7.00 | 33.80 |
| 2 | 2390.00 | 32.20 AV | 54.00 | -21.80 | 1.53 H | 62 | -1.60 | 33.80 |
| 3 | *2437.00 | 92.30 PK | -- | -- | 1.20 H | 357 | 62.30 | 30.00 |
| 3 | *2437.00 | 84.80 AV | -- | -- | 1.20 H | 357 | 54.80 | 30.00 |
| 4 | 2483.50 | 37.10 PK | 74.00 | -36.90 | 1.18 H | 1 | 7.00 | 30.10 |
| 4 | 2483.50 | 28.10 AV | 54.00 | -25.90 | 1.18 H | 1 | -2.00 | 30.10 |
| 5 | 2688.00 | 37.40 PK | 74.00 | -36.60 | 1.46 H | 63 | 6.50 | 30.90 |
| 5 | 2688.00 | 31.70 AV | 54.00 | -22.30 | 1.46 H | 63 | 0.80 | 30.90 |
| 6 | 4874.00 | 39.60 PK | 74.00 | -34.40 | 1.54 H | 24 | 3.10 | 36.50 |
| 6 | 4874.00 | 30.60 AV | 54.00 | -23.40 | 1.54 H | 24 | -5.90 | 36.50 |
| 7 | 7311.00 | 44.40 PK | 74.00 | -29.60 | 1.11 H | 6 | 2.70 | 41.80 |
| 7 | 7311.00 | 34.70 AV | 54.00 | -19.30 | 1.11 H | 6 | -7.10 | 41.80 |
| 8 | 9748.00 | 48.10 PK | 74.00 | -25.90 | 1.08 H | 7 | 3.40 | 44.60 |
| 8 | 9748.00 | 37.30 AV | 54.00 | -16.70 | 1.08 H | 7 | -7.30 | 44.60 |

**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 | 2016.00 | 51.70 PK | 93.00 | -41.30 | 1.92 V | 55 | 22.90 | 28.80 |
| 1 | 2016.00 | 54.00 AV | 84.30 | -30.30 | 1.92 V | 55 | 25.20 | 28.80 |
| 2 | 2390.00 | 60.50 PK | 74.00 | -13.50 | 1.15 V | 353 | 26.70 | 33.80 |
| **2** | **2390.00** | **52.80 AV** | **54.00** | **-1.20** | **1.15 V** | **353** | **19.00** | **33.80** |
| 3 | *2437.00 | 113.00 PK | -- | -- | 1.14 V | 341 | 83.00 | 30.00 |
| 3 | *2437.00 | 104.30 AV | -- | -- | 1.14 V | 341 | 74.30 | 30.00 |
| 4 | 2483.50 | 58.70 PK | 74.00 | -15.30 | 1.13 V | 359 | 28.50 | 30.10 |
| 4 | 2483.50 | 49.80 AV | 54.00 | -4.20 | 1.13 V | 359 | 19.60 | 30.10 |
| 5 | 2688.00 | 47.60 PK | 74.00 | -26.40 | 1.50 V | 1 | 16.70 | 30.90 |
| 5 | 2688.00 | 42.90 AV | 54.00 | -11.10 | 1.50 V | 1 | 12.10 | 30.90 |
| 6 | 4874.00 | 41.70 PK | 74.00 | -32.30 | 1.00 V | 356 | 5.20 | 36.50 |
| 6 | 4874.00 | 33.10 AV | 54.00 | -20.90 | 1.00 V | 356 | -3.30 | 36.50 |
| 7 | 7311.00 | 45.90 PK | 74.00 | -28.10 | 1.43 V | 6 | 4.10 | 41.80 |
| 7 | 7311.00 | 37.10 AV | 54.00 | -16.90 | 1.43 V | 6 | -4.70 | 41.80 |
| 8 | 9748.00 | 47.90 PK | 74.00 | -26.10 | 1.01 V | 2 | 3.30 | 44.60 |
| 8 | 9748.00 | 38.90 AV | 54.00 | -15.10 | 1.01 V | 2 | -5.80 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

## 4.2.28 TEST RESULTS (ANTENNA 9 –OFDM)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 1 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 23 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 38.70 PK | 74.00 | -35.30 | 1.19 H | 18 | 9.90 | 28.80 |
| 1 | 2016.00 | 33.80 AV | 54.00 | -20.20 | 1.19 H | 18 | 5.00 | 28.80 |
| 2 | 2390.00 | 44.80 PK | 74.00 | -29.20 | 1.13 H | 29 | 11.00 | 33.80 |
| 2 | 2390.00 | 37.10 AV | 54.00 | -16.90 | 1.13 H | 29 | 3.30 | 33.80 |
| 3 | *2412.00 | 97.40 PK | -- | -- | 1.12 H | 33 | 67.50 | 29.90 |
| 3 | *2412.00 | 89.30 AV | -- | -- | 1.12 H | 33 | 59.40 | 29.90 |
| 4 | 2688.00 | 33.60 PK | 74.00 | -40.40 | 1.12 H | 20 | 2.70 | 30.90 |
| 4 | 2688.00 | 26.60 AV | 54.00 | -27.40 | 1.12 H | 20 | -4.20 | 30.90 |
| 5 | 4824.00 | 41.30 PK | 74.00 | -32.70 | 1.41 H | 12 | 5.10 | 36.20 |
| 5 | 4824.00 | 31.40 AV | 54.00 | -22.60 | 1.41 H | 12 | -4.80 | 36.20 |
| 6 | 7236.00 | 46.40 PK | 74.00 | -27.60 | 1.54 H | 1 | 4.70 | 41.70 |
| 6 | 7236.00 | 38.50 AV | 54.00 | -15.50 | 1.54 H | 1 | -3.20 | 41.70 |
| 7 | 9648.00 | 50.40 PK | 74.00 | -23.60 | 1.11 H | 14 | 5.50 | 44.90 |
| 7 | 9648.00 | 39.40 AV | 54.00 | -14.60 | 1.11 H | 14 | -5.50 | 44.90 |

**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 | 2016.00 | 47.80 PK | 74.00 | -26.20 | 1.40 V | 339 | 18.90 | 28.80 |
| 1 | 2016.00 | 45.70 AV | 54.00 | -8.30 | 1.40 V | 339 | 16.90 | 28.80 |
| 2 | 2390.00 | 61.80 PK | 74.00 | -12.20 | 1.16 V | 359 | 28.00 | 33.80 |
| 2 | 2390.00 | 52.40 AV | 54.00 | -1.60 | 1.16 V | 359 | 18.60 | 33.80 |
| 3 | *2412.00 | 112.30 PK | -- | -- | 1.15 V | 356 | 82.40 | 29.90 |
| 3 | *2412.00 | 104.50 AV | -- | -- | 1.15 V | 356 | 74.60 | 29.90 |
| 4 | 2688.00 | 43.10 PK | 74.00 | -30.90 | 1.65 V | 0 | 12.20 | 30.90 |
| 4 | 2688.00 | 38.20 AV | 54.00 | -15.80 | 1.65 V | 0 | 7.30 | 30.90 |
| 5 | 4824.00 | 46.40 PK | 74.00 | -27.60 | 1.20 V | 1 | 10.20 | 36.20 |
| 5 | 4824.00 | 34.50 AV | 54.00 | -19.50 | 1.20 V | 1 | -1.80 | 36.20 |
| 6 | 7236.00 | 48.90 PK | 74.00 | -25.10 | 1.12 V | 2 | 7.20 | 41.70 |
| 6 | 7236.00 | 39.50 AV | 54.00 | -14.50 | 1.12 V | 2 | -2.20 | 41.70 |
| 7 | 9648.00 | 48.40 PK | 74.00 | -25.60 | 1.20 V | 1 | 3.50 | 44.90 |
| 7 | 9648.00 | 39.40 AV | 54.00 | -14.60 | 1.20 V | 1 | -5.50 | 44.90 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH,<br>977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 45.80 PK | 83.60 | -37.80 | 1.18 H | 12 | 17.00 | 28.80 |
| 1 | 2016.00 | 41.70 AV | 75.40 | -33.70 | 1.18 H | 12 | 12.90 | 28.80 |
| 2 | 2390.00 | 43.90 PK | 74.00 | -30.10 | 1.14 H | 40 | 10.10 | 33.80 |
| 2 | 2390.00 | 36.60 AV | 54.00 | -17.40 | 1.14 H | 40 | 2.80 | 33.80 |
| 3 | *2437.00 | 103.60 PK | -- | -- | 1.13 H | 36 | 73.70 | 30.00 |
| 3 | *2437.00 | 95.40 AV | -- | -- | 1.13 H | 36 | 65.40 | 30.00 |
| 4 | 2483.50 | 43.10 PK | 74.00 | -30.90 | 1.13 H | 19 | 13.00 | 30.10 |
| 4 | 2483.50 | 36.00 AV | 54.00 | -18.00 | 1.13 H | 19 | 5.90 | 30.10 |
| 5 | 2688.00 | 37.10 PK | 74.00 | -36.90 | 1.50 H | 24 | 6.20 | 30.90 |
| 5 | 2688.00 | 33.10 AV | 54.00 | -20.90 | 1.50 H | 24 | 2.20 | 30.90 |
| 6 | 4874.00 | 43.50 PK | 74.00 | -30.50 | 1.13 H | 38 | 7.00 | 36.50 |
| 6 | 4874.00 | 32.30 AV | 54.00 | -21.70 | 1.13 H | 38 | -4.10 | 36.50 |
| 7 | 7311.00 | 52.70 PK | 74.00 | -21.30 | 1.15 H | 343 | 10.90 | 41.80 |
| 7 | 7311.00 | 40.60 AV | 54.00 | -13.40 | 1.15 H | 343 | -1.20 | 41.80 |
| 8 | 9748.00 | 51.00 PK | 74.00 | -23.00 | 1.20 H | 118 | 6.30 | 44.60 |
| 8 | 9748.00 | 39.60 AV | 54.00 | -14.40 | 1.20 H | 118 | -5.00 | 44.60 |

**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 | 2016.00 | 56.60 PK | 99.80 | -43.20 | 1.40 V | 7 | 27.80 | 28.80 |
| 1 | 2016.00 | 54.00 AV | 91.00 | -37.00 | 1.40 V | 7 | 25.20 | 28.80 |
| 2 | 2390.00 | 59.50 PK | 74.00 | -14.50 | 1.13 V | 354 | 25.70 | 33.80 |
| 2 | 2390.00 | 51.70 AV | 54.00 | -2.30 | 1.13 V | 354 | 17.90 | 33.80 |
| 3 | *2437.00 | 119.80 PK | -- | -- | 1.12 V | 353 | 89.80 | 30.00 |
| 3 | *2437.00 | 111.00 AV | -- | -- | 1.12 V | 353 | 81.00 | 30.00 |
| 4 | 2483.50 | 60.30 PK | 74.00 | -13.70 | 1.13 V | 359 | 30.20 | 30.10 |
| 4 | 2483.50 | 51.90 AV | 54.00 | -2.10 | 1.13 V | 359 | 21.80 | 30.10 |
| 5 | 2688.00 | 44.70 PK | 74.00 | -29.30 | 1.76 V | 14 | 13.80 | 30.90 |
| 5 | 2688.00 | 40.90 AV | 54.00 | -13.10 | 1.76 V | 14 | 10.00 | 30.90 |
| 6 | 4874.00 | 49.50 PK | 74.00 | -24.50 | 1.34 V | 214 | 13.00 | 36.50 |
| 6 | 4874.00 | 37.30 AV | 54.00 | -16.70 | 1.34 V | 214 | 0.80 | 36.50 |
| 7 | 7311.00 | 49.10 PK | 74.00 | -24.90 | 1.15 V | 20 | 7.30 | 41.80 |
| 7 | 7311.00 | 38.60 AV | 54.00 | -15.40 | 1.15 V | 20 | -3.10 | 41.80 |
| 8 | 9748.00 | 50.60 PK | 74.00 | -23.40 | 1.20 V | 250 | 6.00 | 44.60 |
| 8 | 9748.00 | 39.50 AV | 54.00 | -14.50 | 1.20 V | 250 | -5.10 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 11 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 39.70 PK | 74.00 | -34.30 | 1.15 H | 2 | 10.90 | 28.80 |
| 1 | 2016.00 | 35.40 AV | 54.00 | -18.60 | 1.15 H | 2 | 6.60 | 28.80 |
| 2 | *2462.00 | 98.20 PK | -- | -- | 1.11 H | 35 | 68.10 | 30.10 |
| 2 | *2462.00 | 89.30 AV | -- | -- | 1.11 H | 35 | 59.30 | 30.10 |
| 3 | 2483.50 | 46.20 PK | 74.00 | -27.80 | 1.12 H | 37 | 16.10 | 30.10 |
| 3 | 2483.50 | 38.20 AV | 54.00 | -15.80 | 1.12 H | 37 | 8.10 | 30.10 |
| 4 | 2688.00 | 32.10 PK | 74.00 | -41.90 | 1.32 H | 6 | 1.20 | 30.90 |
| 4 | 2688.00 | 26.60 AV | 54.00 | -27.40 | 1.32 H | 6 | -4.20 | 30.90 |
| 5 | 4924.00 | 41.70 PK | 74.00 | -32.30 | 1.42 H | 350 | 5.00 | 36.70 |
| 5 | 4924.00 | 31.80 AV | 54.00 | -22.20 | 1.42 H | 350 | -4.90 | 36.70 |
| 6 | 7386.00 | 47.00 PK | 74.00 | -27.00 | 1.11 H | 2 | 5.20 | 41.80 |
| 6 | 7386.00 | 38.90 AV | 54.00 | -15.10 | 1.11 H | 2 | -2.90 | 41.80 |
| 7 | 9848.00 | 48.90 PK | 74.00 | -25.10 | 1.53 H | 6 | 4.60 | 44.40 |
| 7 | 9848.00 | 39.00 AV | 54.00 | -15.00 | 1.53 H | 6 | -5.30 | 44.40 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2016.00 | 49.40 PK | 74.00 | -24.60 | 1.39 V | 1 | 20.60 | 28.80 |
| 1 | 2016.00 | 46.90 AV | 54.00 | -7.10 | 1.39 V | 1 | 18.10 | 28.80 |
| 2 | *2462.00 | 112.60 PK | -- | -- | 1.14 V | 356 | 82.50 | 30.10 |
| 2 | *2462.00 | 104.30 AV | -- | -- | 1.14 V | 356 | 74.30 | 30.10 |
| 3 | 2483.50 | 60.20 PK | 74.00 | -13.80 | 1.15 V | 359 | 30.10 | 30.10 |
| 3 | 2483.50 | 52.40 AV | 54.00 | -1.60 | 1.15 V | 359 | 22.30 | 30.10 |
| 4 | 2688.00 | 44.10 PK | 74.00 | -29.90 | 1.66 V | 1 | 13.20 | 30.90 |
| 4 | 2688.00 | 39.70 AV | 54.00 | -14.30 | 1.66 V | 1 | 8.80 | 30.90 |
| 5 | 4924.00 | 47.80 PK | 74.00 | -26.20 | 1.11 V | 1 | 11.10 | 36.70 |
| 5 | 4924.00 | 34.80 AV | 54.00 | -19.20 | 1.11 V | 1 | -1.90 | 36.70 |
| 6 | 7386.00 | 49.90 PK | 74.00 | -24.10 | 1.11 V | 357 | 8.00 | 41.80 |
| 6 | 7386.00 | 38.90 AV | 54.00 | -15.10 | 1.11 V | 357 | -2.90 | 41.80 |
| 7 | 9848.00 | 47.90 PK | 74.00 | -26.10 | 1.41 V | 2 | 3.60 | 44.40 |
| 7 | 9848.00 | 39.00 AV | 54.00 | -15.00 | 1.41 V | 2 | -5.30 | 44.40 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Turbo Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 23 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 41.70 PK | 74.00 | -32.30 | 1.09 H | 5 | 12.90 | 28.80 |
| 1 | 2016.00 | 36.90 AV | 54.00 | -17.10 | 1.09 H | 5 | 8.10 | 28.80 |
| 2 | 2390.00 | 45.70 PK | 74.00 | -28.30 | 1.10 H | 39 | 11.90 | 33.80 |
| 2 | 2390.00 | 37.50 AV | 54.00 | -16.50 | 1.10 H | 39 | 3.70 | 33.80 |
| 3 | *2437.00 | 95.20 PK | -- | -- | 1.12 H | 34 | 65.20 | 30.00 |
| 3 | *2437.00 | 88.30 AV | -- | -- | 1.12 H | 34 | 58.30 | 30.00 |
| 4 | 2483.50 | 43.70 PK | 74.00 | -30.30 | 1.11 H | 40 | 13.60 | 30.10 |
| 4 | 2483.50 | 37.10 AV | 54.00 | -16.90 | 1.11 H | 40 | 7.00 | 30.10 |
| 5 | 2688.00 | 33.40 PK | 74.00 | -40.60 | 1.51 H | 4 | 2.50 | 30.90 |
| 5 | 2688.00 | 28.70 AV | 54.00 | -25.30 | 1.51 H | 4 | -2.20 | 30.90 |
| 6 | 4874.00 | 41.50 PK | 74.00 | -32.50 | 1.24 H | 40 | 5.00 | 36.50 |
| 6 | 4874.00 | 31.20 AV | 54.00 | -22.80 | 1.24 H | 40 | -5.30 | 36.50 |
| 7 | 7311.00 | 49.30 PK | 74.00 | -24.70 | 1.28 H | 10 | 7.50 | 41.80 |
| 7 | 7311.00 | 37.00 AV | 54.00 | -17.00 | 1.28 H | 10 | -4.80 | 41.80 |
| 8 | 9748.00 | 49.20 PK | 74.00 | -24.80 | 1.33 H | 69 | 4.50 | 44.60 |
| 8 | 9748.00 | 38.70 AV | 54.00 | -15.30 | 1.33 H | 69 | -5.90 | 44.60 |

**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 | 2016.00 | 53.40 PK | 74.00 | -20.60 | 1.39 V | 8 | 24.60 | 28.80 |
| 1 | 2016.00 | 50.90 AV | 54.00 | -3.10 | 1.39 V | 8 | 22.10 | 28.80 |
| 2 | 2390.00 | 60.60 PK | 74.00 | -13.40 | 1.11 V | 353 | 26.80 | 33.80 |
| 2 | 2390.00 | 51.50 AV | 54.00 | -2.50 | 1.11 V | 353 | 17.70 | 33.80 |
| 3 | *2437.00 | 112.80 PK | -- | -- | 1.10 V | 354 | 82.80 | 30.00 |
| 3 | *2437.00 | 104.10 AV | -- | -- | 1.10 V | 354 | 74.10 | 30.00 |
| 4 | 2483.50 | 59.20 PK | 74.00 | -14.80 | 1.12 V | 355 | 29.10 | 30.10 |
| 4 | 2483.50 | 51.60 AV | 54.00 | -2.40 | 1.12 V | 355 | 21.50 | 30.10 |
| 5 | 2688.00 | 42.00 PK | 74.00 | -32.00 | 1.80 V | 10 | 11.20 | 30.90 |
| 5 | 2688.00 | 38.10 AV | 54.00 | -15.90 | 1.80 V | 10 | 7.20 | 30.90 |
| 6 | 4874.00 | 43.20 PK | 74.00 | -30.80 | 1.11 V | 69 | 6.70 | 36.50 |
| 6 | 4874.00 | 31.90 AV | 54.00 | -22.10 | 1.11 V | 69 | -4.60 | 36.50 |
| 7 | 7311.00 | 49.50 PK | 74.00 | -24.50 | 1.20 V | 21 | 7.70 | 41.80 |
| 7 | 7311.00 | 37.30 AV | 54.00 | -16.70 | 1.20 V | 21 | -4.40 | 41.80 |
| 8 | 9748.00 | 49.80 PK | 74.00 | -24.20 | 1.38 V | 30 | 5.20 | 44.60 |
| 8 | 9748.00 | 39.20 AV | 54.00 | -14.80 | 1.38 V | 30 | -5.40 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

## 4.2.29 TEST RESULTS (ANTENNA 10 –OFDM)

| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | **MODEL** | DWL-3200AP |
| **MODE** | Channel 1 | **FREQUENCY RANGE** | 1000~25000MHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **DETECTOR FUNCTION & BANDWIDTH** | Peak (PK)<br>Average (AV)<br>1 MHz |
| **ENVIRONMENTAL CONDITIONS** | 25 deg. C, 60%RH, 977 hPa | **TESTED BY** | Eric Lee |

**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 | 2016.00 | 34.70 PK | 74.00 | -39.30 | 1.02 H | 1 | 5.90 | 28.80 |
| 1 | 2016.00 | 29.80 AV | 54.00 | -24.20 | 1.02 H | 1 | 1.00 | 28.80 |
| 2 | 2390.00 | 42.30 PK | 74.00 | -31.70 | 1.50 H | 319 | 8.50 | 33.80 |
| 2 | 2390.00 | 32.70 AV | 54.00 | -21.30 | 1.50 H | 319 | -1.10 | 33.80 |
| 3 | *2412.00 | 92.10 PK | -- | -- | 1.47 H | 322 | 62.20 | 29.90 |
| 3 | *2412.00 | 83.00 AV | -- | -- | 1.47 H | 322 | 53.10 | 29.90 |
| 4 | 2688.00 | 34.50 PK | 74.00 | -39.50 | 1.45 H | 24 | 3.60 | 30.90 |
| 4 | 2688.00 | 27.60 AV | 54.00 | -26.40 | 1.45 H | 24 | -3.20 | 30.90 |
| 5 | 4824.00 | 42.60 PK | 74.00 | -31.40 | 1.54 H | 21 | 6.40 | 36.20 |
| 5 | 4824.00 | 32.80 AV | 54.00 | -21.20 | 1.54 H | 21 | -3.50 | 36.20 |
| 6 | 7236.00 | 44.50 PK | 74.00 | -29.50 | 1.42 H | 1 | 2.90 | 41.70 |
| 6 | 7236.00 | 37.60 AV | 54.00 | -16.40 | 1.42 H | 1 | -4.10 | 41.70 |
| 7 | 9648.00 | 49.00 PK | 74.00 | -25.00 | 1.25 H | 4 | 4.10 | 44.90 |
| 7 | 9648.00 | 40.20 AV | 54.00 | -13.80 | 1.25 H | 4 | -4.70 | 44.90 |

**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 | 2016.00 | 45.00 PK | 74.00 | -29.00 | 1.44 V | 2 | 16.20 | 28.80 |
| 1 | 2016.00 | 40.30 AV | 54.00 | -13.70 | 1.44 V | 2 | 11.50 | 28.80 |
| 2 | 2390.00 | 55.80 PK | 74.00 | -18.20 | 1.01 V | 29 | 22.00 | 33.80 |
| 2 | 2390.00 | 46.70 AV | 54.00 | -7.30 | 1.01 V | 29 | 12.90 | 33.80 |
| 3 | *2412.00 | 107.10 PK | -- | -- | 1.00 V | 30 | 77.20 | 29.90 |
| 3 | *2412.00 | 98.70 AV | -- | -- | 1.00 V | 30 | 68.80 | 29.90 |
| 4 | 2688.00 | 40.10 PK | 74.00 | -33.90 | 1.11 V | 347 | 9.20 | 30.90 |
| 4 | 2688.00 | 33.00 AV | 54.00 | -21.00 | 1.11 V | 347 | 2.10 | 30.90 |
| 5 | 4824.00 | 44.40 PK | 74.00 | -29.60 | 1.65 V | 247 | 8.20 | 36.20 |
| 5 | 4824.00 | 35.70 AV | 54.00 | -18.30 | 1.65 V | 247 | -0.50 | 36.20 |
| 6 | 7236.00 | 47.40 PK | 74.00 | -26.60 | 1.68 V | 9 | 5.80 | 41.70 |
| 6 | 7236.00 | 37.90 AV | 54.00 | -16.10 | 1.68 V | 9 | -3.80 | 41.70 |
| 7 | 9648.00 | 50.40 PK | 74.00 | -23.60 | 1.36 V | 65 | 5.50 | 44.90 |
| 7 | 9648.00 | 39.70 AV | 54.00 | -14.30 | 1.36 V | 65 | -5.20 | 44.90 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60%RH,<br>977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 43.80 PK | 74.00 | -30.20 | 1.24 H | 14 | 15.00 | 28.80 |
| 1 | 2016.00 | 38.80 AV | 54.00 | -15.20 | 1.24 H | 14 | 10.00 | 28.80 |
| 2 | 2390.00 | 41.90 PK | 74.00 | -32.10 | 1.45 H | 318 | 8.10 | 33.80 |
| 2 | 2390.00 | 33.00 AV | 54.00 | -21.00 | 1.45 H | 318 | -0.80 | 33.80 |
| 3 | *2437.00 | 98.90 PK | -- | -- | 1.46 H | 322 | 68.90 | 30.00 |
| 3 | *2437.00 | 90.00 AV | -- | -- | 1.46 H | 322 | 60.00 | 30.00 |
| 4 | 2483.50 | 39.20 PK | 74.00 | -34.80 | 1.50 H | 322 | 9.10 | 30.10 |
| 4 | 2483.50 | 30.40 AV | 54.00 | -23.60 | 1.50 H | 322 | 0.30 | 30.10 |
| 5 | 2688.00 | 36.50 PK | 74.00 | -37.50 | 1.74 H | 21 | 5.60 | 30.90 |
| 5 | 2688.00 | 32.90 AV | 54.00 | -21.10 | 1.74 H | 21 | 2.10 | 30.90 |
| 6 | 4874.00 | 41.90 PK | 74.00 | -32.10 | 1.32 H | 62 | 5.50 | 36.50 |
| 6 | 4874.00 | 33.50 AV | 54.00 | -20.50 | 1.32 H | 62 | -3.00 | 36.50 |
| 7 | 7311.00 | 53.70 PK | 74.00 | -20.30 | 1.54 H | 7 | 11.90 | 41.80 |
| 7 | 7311.00 | 41.70 AV | 54.00 | -12.30 | 1.54 H | 7 | -0.10 | 41.80 |
| 8 | 9748.00 | 52.60 PK | 74.00 | -21.40 | 1.11 H | 4 | 7.90 | 44.60 |
| 8 | 9748.00 | 40.80 AV | 54.00 | -13.20 | 1.11 H | 4 | -3.80 | 44.60 |

**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 | 2016.00 | 51.80 PK | 74.00 | -22.20 | 1.15 V | 154 | 23.00 | 28.80 |
| 1 | 2016.00 | 49.90 AV | 54.00 | -4.10 | 1.15 V | 154 | 21.10 | 28.80 |
| 2 | 2390.00 | 56.40 PK | 74.00 | -17.60 | 1.26 V | 3 | 22.60 | 33.80 |
| 2 | 2390.00 | 46.40 AV | 54.00 | -7.60 | 1.26 V | 3 | 12.60 | 33.80 |
| 3 | *2437.00 | 115.30 PK | -- | -- | 1.23 V | 30 | 85.30 | 30.00 |
| 3 | *2437.00 | 106.80 AV | -- | -- | 1.23 V | 30 | 76.80 | 30.00 |
| 4 | 2483.50 | 52.90 PK | 74.00 | -21.10 | 1.26 V | 27 | 22.80 | 30.10 |
| 4 | 2483.50 | 43.80 AV | 54.00 | -10.20 | 1.26 V | 27 | 13.70 | 30.10 |
| 5 | 2688.00 | 43.70 PK | 74.00 | -30.30 | 1.11 V | 145 | 12.80 | 30.90 |
| 5 | 2688.00 | 39.70 AV | 54.00 | -14.30 | 1.11 V | 145 | 8.80 | 30.90 |
| 6 | 4874.00 | 42.60 PK | 74.00 | -31.40 | 1.32 V | 65 | 6.10 | 36.50 |
| 6 | 4874.00 | 34.60 AV | 54.00 | -19.40 | 1.32 V | 65 | -1.90 | 36.50 |
| 7 | 7311.00 | 48.50 PK | 74.00 | -25.50 | 1.02 V | 24 | 6.80 | 41.80 |
| 7 | 7311.00 | 39.70 AV | 54.00 | -14.30 | 1.02 V | 24 | -2.10 | 41.80 |
| 8 | 9748.00 | 47.60 PK | 74.00 | -26.40 | 1.47 V | 4 | 3.00 | 44.60 |
| 8 | 9748.00 | 39.30 AV | 54.00 | -14.70 | 1.47 V | 4 | -5.30 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Channel 11 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 39.50 PK | 74.00 | -34.50 | 1.46 H | 9 | 10.70 | 28.80 |
| 1 | 2016.00 | 35.80 AV | 54.00 | -18.20 | 1.46 H | 9 | 7.00 | 28.80 |
| 2 | *2462.00 | 95.10 PK | -- | -- | 1.48 H | 325 | 65.00 | 30.10 |
| 2 | *2462.00 | 86.10 AV | -- | -- | 1.48 H | 325 | 56.00 | 30.10 |
| 3 | 2483.50 | 43.10 PK | 74.00 | -30.90 | 1.50 H | 333 | 12.90 | 30.10 |
| 3 | 2483.50 | 33.20 AV | 54.00 | -20.80 | 1.50 H | 333 | 3.10 | 30.10 |
| 4 | 2688.00 | 35.60 PK | 74.00 | -38.40 | 1.86 H | 24 | 4.70 | 30.90 |
| 4 | 2688.00 | 30.60 AV | 54.00 | -23.40 | 1.86 H | 24 | -0.20 | 30.90 |
| 5 | 4924.00 | 42.60 PK | 74.00 | -31.40 | 1.54 H | 21 | 5.90 | 36.70 |
| 5 | 4924.00 | 32.80 AV | 54.00 | -21.20 | 1.54 H | 21 | -3.90 | 36.70 |
| 6 | 7386.00 | 45.20 PK | 74.00 | -28.80 | 1.09 H | 346 | 3.40 | 41.80 |
| 6 | 7386.00 | 36.50 AV | 54.00 | -17.50 | 1.09 H | 346 | -5.30 | 41.80 |
| 7 | 9848.00 | 48.70 PK | 74.00 | -25.30 | 1.55 H | 2 | 4.30 | 44.40 |
| 7 | 9848.00 | 39.10 AV | 54.00 | -14.90 | 1.55 H | 2 | -5.30 | 44.40 |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1 | 2016.00 | 49.90 PK | 74.00 | -24.10 | 1.06 V | 7 | 21.10 | 28.80 |
| 1 | 2016.00 | 46.80 AV | 54.00 | -7.20 | 1.06 V | 7 | 18.00 | 28.80 |
| 2 | *2462.00 | 107.90 PK | -- | -- | 1.21 V | 28 | 77.80 | 30.10 |
| 2 | *2462.00 | 98.90 AV | -- | -- | 1.21 V | 28 | 68.90 | 30.10 |
| 3 | 2483.50 | 55.20 PK | 74.00 | -18.80 | 1.28 V | 30 | 25.10 | 30.10 |
| 3 | 2483.50 | 47.00 AV | 54.00 | -7.00 | 1.28 V | 30 | 16.90 | 30.10 |
| 4 | 2688.00 | 41.70 PK | 74.00 | -32.30 | 1.54 V | 245 | 10.80 | 30.90 |
| 4 | 2688.00 | 37.40 AV | 54.00 | -16.60 | 1.54 V | 245 | 6.50 | 30.90 |
| 5 | 4924.00 | 42.10 PK | 74.00 | -31.90 | 1.65 V | 24 | 5.40 | 36.70 |
| 5 | 4924.00 | 34.80 AV | 54.00 | -19.20 | 1.65 V | 24 | -1.90 | 36.70 |
| 6 | 7386.00 | 47.30 PK | 74.00 | -26.70 | 1.54 V | 24 | 5.50 | 41.80 |
| 6 | 7386.00 | 37.90 AV | 54.00 | -16.10 | 1.54 V | 24 | -3.90 | 41.80 |
| 7 | 9848.00 | 49.70 PK | 74.00 | -24.30 | 1.82 V | 2 | 5.30 | 44.40 |
| 7 | 9848.00 | 38.30 AV | 54.00 | -15.70 | 1.82 V | 2 | -6.10 | 44.40 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

| EUT | IEEE 802.11g Wireless Access Point | MODEL | DWL-3200AP |
|---|---|---|---|
| MODE | Turbo Channel 6 | FREQUENCY RANGE | 1000~25000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak (PK)<br>Average (AV)<br>1 MHz |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60%RH, 977 hPa | TESTED BY | Eric Lee |

**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 | 2016.00 | 38.80 PK | 74.00 | -35.20 | 1.57 H | 4 | 10.00 | 28.80 |
| 1 | 2016.00 | 35.80 AV | 54.00 | -18.20 | 1.57 H | 4 | 7.00 | 28.80 |
| 2 | 2390.00 | 35.20 PK | 74.00 | -38.80 | 1.08 H | 2 | 1.40 | 33.80 |
| 2 | 2390.00 | 26.20 AV | 54.00 | -27.80 | 1.08 H | 2 | -7.60 | 33.80 |
| 3 | *2437.00 | 95.00 PK | -- | -- | 1.48 H | 325 | 65.00 | 30.00 |
| 3 | *2437.00 | 86.00 AV | -- | -- | 1.48 H | 325 | 56.00 | 30.00 |
| 4 | 2483.50 | 33.70 PK | 74.00 | -40.30 | 1.14 H | 28 | 3.60 | 30.10 |
| 4 | 2483.50 | 24.10 AV | 54.00 | -29.90 | 1.14 H | 28 | -6.00 | 30.10 |
| 5 | 2688.00 | 35.50 PK | 74.00 | -38.50 | 1.47 H | 4 | 4.60 | 30.90 |
| 5 | 2688.00 | 30.60 AV | 54.00 | -23.40 | 1.47 H | 4 | -0.30 | 30.90 |
| 6 | 4874.00 | 41.90 PK | 74.00 | -32.10 | 1.42 H | 5 | 5.40 | 36.50 |
| 6 | 4874.00 | 33.00 AV | 54.00 | -21.00 | 1.42 H | 5 | -3.50 | 36.50 |
| 7 | 7311.00 | 48.00 PK | 74.00 | -26.00 | 1.47 H | 4 | 6.20 | 41.80 |
| 7 | 7311.00 | 39.80 AV | 54.00 | -14.20 | 1.47 H | 4 | -2.00 | 41.80 |
| 8 | 9748.00 | 46.70 PK | 74.00 | -27.30 | 1.09 H | 36 | 2.10 | 44.60 |
| 8 | 9748.00 | 38.90 AV | 54.00 | -15.10 | 1.09 H | 36 | -5.70 | 44.60 |

**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 | 2016.00 | 49.70 PK | 74.00 | -24.30 | 1.13 V | 354 | 20.90 | 28.80 |
| 1 | 2016.00 | 46.80 AV | 54.00 | -7.20 | 1.13 V | 354 | 18.00 | 28.80 |
| 2 | 2390.00 | 60.60 PK | 74.00 | -13.40 | 1.20 V | 353 | 26.80 | 33.80 |
| 2 | 2390.00 | 50.70 AV | 54.00 | -3.30 | 1.20 V | 353 | 16.90 | 33.80 |
| 3 | *2437.00 | 110.00 PK | -- | -- | 1.18 V | 7 | 80.00 | 30.00 |
| 3 | *2437.00 | 101.80 AV | -- | -- | 1.18 V | 7 | 71.80 | 30.00 |
| 4 | 2483.50 | 56.10 PK | 74.00 | -17.90 | 1.24 V | 359 | 25.90 | 30.10 |
| 4 | 2483.50 | 47.10 AV | 54.00 | -6.90 | 1.24 V | 359 | 17.00 | 30.10 |
| 5 | 2688.00 | 41.60 PK | 74.00 | -32.40 | 1.69 V | 9 | 10.70 | 30.90 |
| 5 | 2688.00 | 36.50 AV | 54.00 | -17.50 | 1.69 V | 9 | 5.60 | 30.90 |
| 6 | 4874.00 | 41.20 PK | 74.00 | -32.80 | 1.02 V | 241 | 4.70 | 36.50 |
| 6 | 4874.00 | 34.60 AV | 54.00 | -19.40 | 1.02 V | 241 | -1.90 | 36.50 |
| 7 | 7311.00 | 51.60 PK | 74.00 | -22.40 | 1.36 V | 6 | 9.80 | 41.80 |
| 7 | 7311.00 | 39.60 AV | 54.00 | -14.40 | 1.36 V | 6 | -2.20 | 41.80 |
| 8 | 9748.00 | 51.30 PK | 74.00 | -22.70 | 1.04 V | 71 | 6.70 | 44.60 |
| 8 | 9748.00 | 38.60 AV | 54.00 | -15.40 | 1.04 V | 71 | -6.00 | 44.60 |

**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. The limit value is defined as per 15.247
6. " * " : Fundamental frequency

## 4.3 6dB BANDWIDTH MEASUREMENT

### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 4.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|---|---|---|---|
| R&S SPECTRUM ANALYZER | FSP40 | 100036 | Nov. 23, 2005 |

**NOTE:**

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. 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 through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100 kHz VBW. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

### 4.3.4 TEST SETUP


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

### 4.3.5 EUT OPERATING CONDITIONS

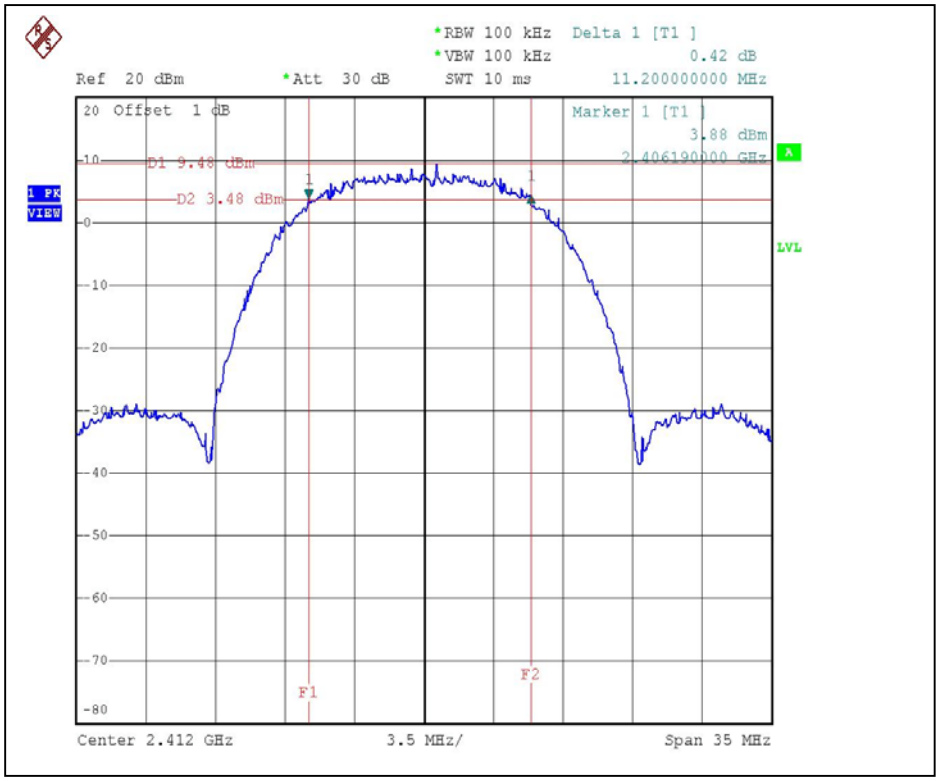
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

## 4.3.6 TEST RESULTS - DSSS

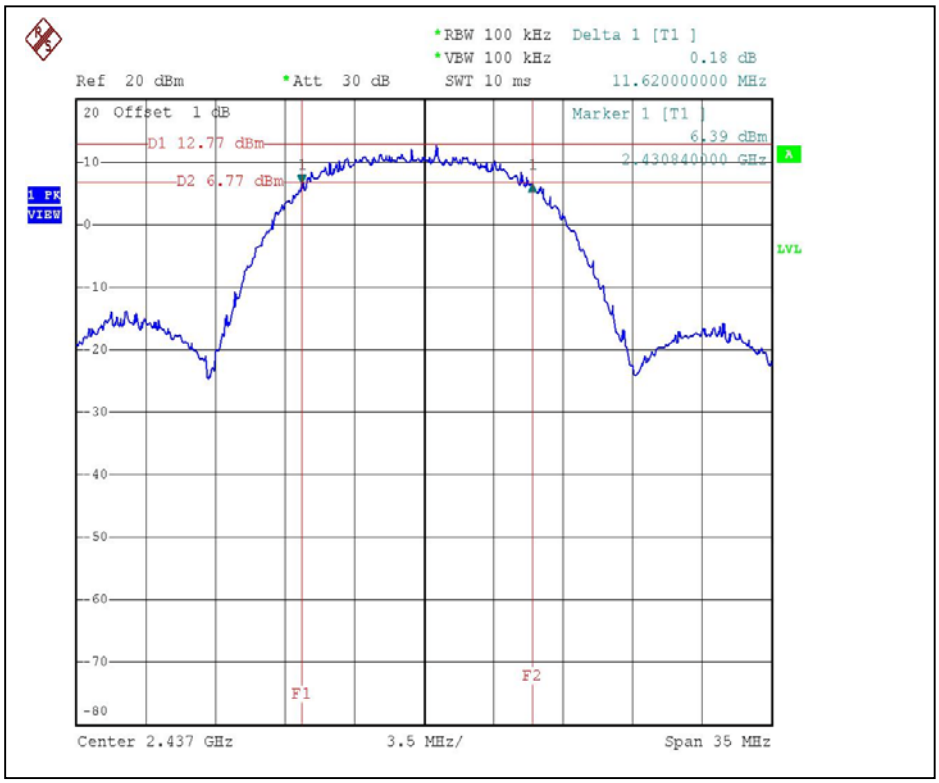
| | | | |
|---|---|---|---|
| **EUT** | IEEE 802.11g Wireless Access Point | | |
| **MODEL** | DWL-3200AP | **ENVIRONMENTAL CONDITIONS** | 20 deg. C, 60%RH, 977 hPa |
| **INPUT POWER (SYSTEM)** | 120Vac, 60 Hz | **TESTED BY** | Wen Yu |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6 dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|---|---|---|---|---|
| 1 | 2412 | 11.20 | 0.5 | PASS |
| 6 | 2437 | 11.62 | 0.5 | PASS |
| 11 | 2462 | 11.55 | 0.5 | PASS |

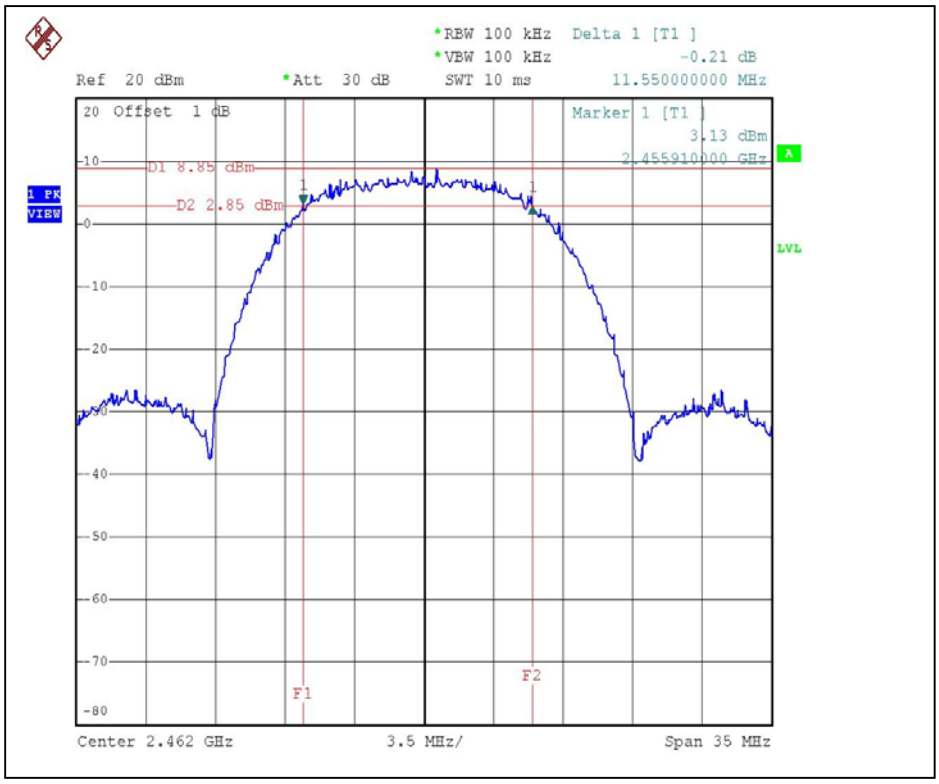
CH1


*RBW 100 kHz
Delta 1 [T1 ]
*VBW 100 kHz
0.42 dB
Ref 20 dBm
*Att 30 dB
SWT 10 ms
11.200000000 MHz
20 Offset 1 dB
Marker 1 [T1 ]
3.88 dBm
2.406190000 GHz
D1 9.48 dBm
D2 3.48 dBm
1 PK
VIEW
A
LVL
10
0
-10
-20
-30
-40
-50
-60
-70
-80
F1
F2
Center 2.412 GHz
3.5 MHz/
Span 35 MHz

CH6


*RBW 100 kHz
Delta 1 [T1 ]
*VBW 100 kHz
0.18 dB
Ref 20 dBm
*Att 30 dB
SWT 10 ms
11.620000000 MHz
20 Offset 1 dB
Marker 1 [T1 ]
6.39 dBm
2.430840000 GHz
D1 12.77 dBm
D2 6.77 dBm
1 PK
VIEW
A
LVL
10
0
-10
-20
-30
-40
-50
-60
-70
-80
F1
F2
Center 2.437 GHz
3.5 MHz/
Span 35 MHz

CH11

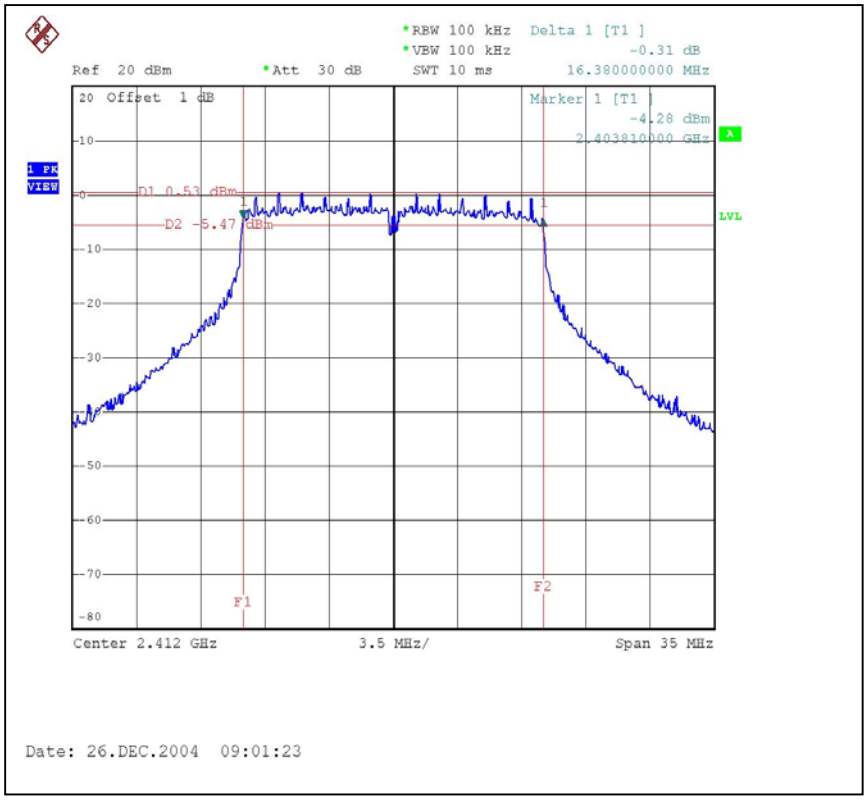

*RBW 100 kHz
*VBW 100 kHz
Delta 1 [T1 ]
-0.21 dB
Ref 20 dBm
*Att 30 dB
SWT 10 ms
11.550000000 MHz
20 Offset 1 dB
Marker 1 [T1 ]
3.13 dBm
2.455910000 GHz
D1 8.85 dBm
D2 2.85 dBm
1 PK
VIEW
LVL
F1
F2
Center 2.462 GHz
3.5 MHz/
Span 35 MHz

## 4.3.7 TEST RESULTS -OFDM

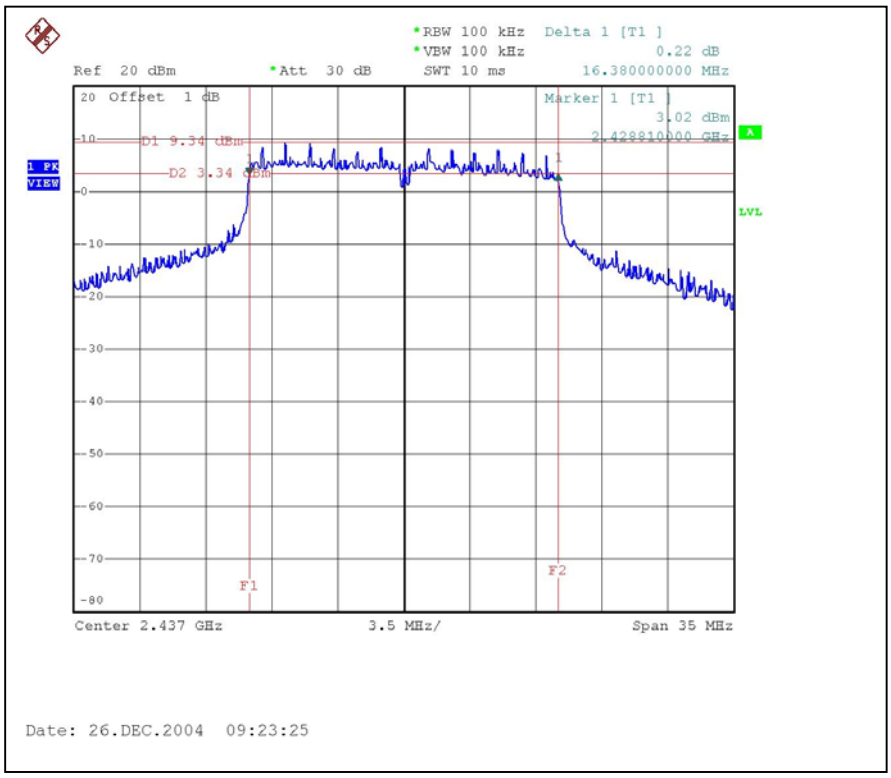
| EUT | IEEE 802.11g Wireless Access Point | | |
|---|---|---|---|
| MODEL | DWL-3200AP | ENVIRONMENTAL CONDITIONS | 20 deg. C, 60%RH, 977 hPa |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | TESTED BY | Wen Yu |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6 dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|---|---|---|---|---|
| 1 | 2412 | 16.38 | 0.5 | PASS |
| 6 | 2437 | 16.38 | 0.5 | PASS |
| 11 | 2462 | 16.45 | 0.5 | PASS |
| Turbo 6 | 2437 | 31.46 | 0.5 | PASS |

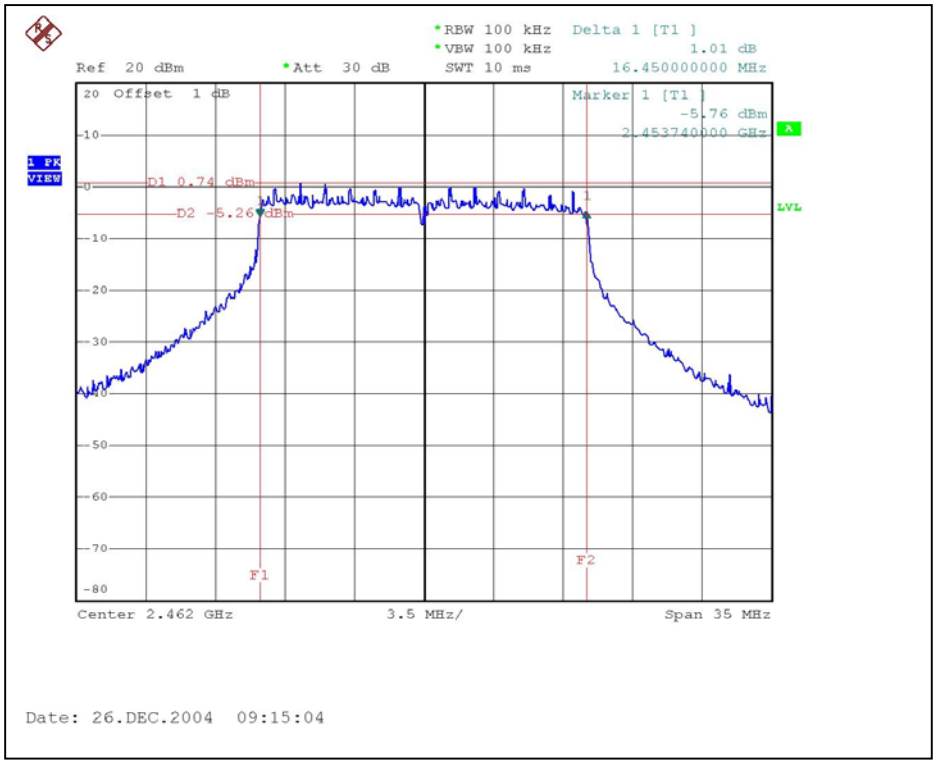
## CH1


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1 ]
-0.31 dB
16.380000000 MHz
Ref 20 dBm
*Att 30 dB
20 Offset 1 dB
Marker 1 [T1 ]
-4.28 dBm
2.403810000 GHz
D1 0.53 dBm
D2 -5.47 dBm
LVL
F1
F2
Center 2.412 GHz
3.5 MHz/
Span 35 MHz
Date: 26.DEC.2004 09:01:23

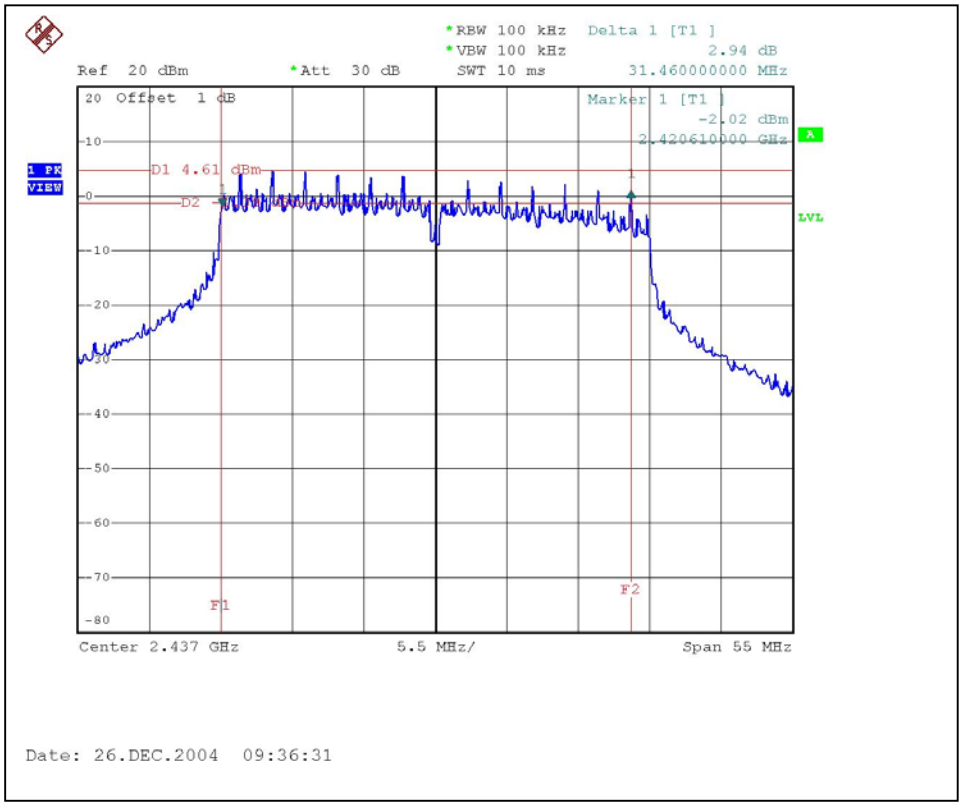
## CH6


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1 ]
0.22 dB
16.380000000 MHz
Ref 20 dBm
*Att 30 dB
20 Offset 1 dB
Marker 1 [T1 ]
3.02 dBm
2.428810000 GHz
D1 9.34 dBm
D2 3.34 dBm
LVL
F1
F2
Center 2.437 GHz
3.5 MHz/
Span 35 MHz
Date: 26.DEC.2004 09:23:25

## CH1


RBW 100 kHz
VBW 100 kHz
SWT 10 ms
Delta 1 [T1 ]
1.01 dB
16.450000000 MHz
Ref 20 dBm
Att 30 dB
20 Offset 1 dB
Marker 1 [T1 ]
-5.76 dBm
2.453740000 GHz
1 PK VIEW
D1 0.74 dBm
D2 -5.26 dBm
LVL
F1
F2
Center 2.462 GHz
3.5 MHz/
Span 35 MHz
Date: 26.DEC.2004 09:15:04

## CH6


RBW 100 kHz
VBW 100 kHz
SWT 10 ms
Delta 1 [T1 ]
2.94 dB
31.460000000 MHz
Ref 20 dBm
Att 30 dB
20 Offset 1 dB
Marker 1 [T1 ]
-2.02 dBm
2.420610000 GHz
1 PK VIEW
D1 4.61 dBm
D2
LVL
F1
F2
Center 2.437 GHz
5.5 MHz/
Span 55 MHz
Date: 26.DEC.2004 09:36:31