



# FCC TEST REPORT

**REPORT NO.:** RF930209R02A

**MODEL NO.:** DWL-G700AP

**RECEIVED:** NA

**TESTED:** Feb. 06, 2004 ~ Feb. 27, 2004

**APPLICANT:** D-Link Corporation

**ADDRESS:** No.8, Li-Hsin VII Road Science Based  
Industrial Park Hsin-Chu, Taiwan, R.O.C.

**ISSUED BY:** Advance Data Technology Corporation

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

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

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## 1 CERTIFICATION

**PRODUCT :** 802.11g Access Point  
**MODEL NO.:** DWL-G700AP  
**BRAND :** D-Link  
**APPLICANT :** D-Link Corporation  
**TEST SAMPLE :** ENGINEERING SAMPLE  
**STANDARDS :** FCC Part 15, Subpart C (Section 15.247),  
ANSI C63.4-2003

The above equipment (model no.: DWL-G700AP) is identical to model no: WL AP 2454 NM, which has been tested by **Advance Data Technology Corporation** from Feb. 06 to Feb. 27, 2004, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Candice Chen, **DATE:** Nov. 30, 2004  
( Candice Chen )

**TECHNICAL  
ACCEPTANCE :** Gary Chang, **DATE:** Nov. 30, 2004  
Responsible for RF  
( Gary Chang )

**APPROVED BY :** Cody Chang, **DATE:** Nov. 30, 2004  
( Cody Chang,  
Deputy Manager )



## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC 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 -11.99dB at 0.492MHz  |
| 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 -0.30dB at 2486.00MHz |
| 15.247(d)                                | Power Spectral Density<br>Limit: max. 8dBm  | PASS   | Meet the requirement of limit  |
| 15.247(e)                                | Band Edge Measurement<br>Limit: 20 dB less than the peak value of fundamental frequency | PASS   | Meet the requirement of limit  |

**NOTE:** The information of measurement uncertainty is available upon the customer's request.



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                           |   |
|---------------------------|---|
| <b>PRODUCT</b>            | 802.11g Access Point  |
| <b>MODEL NO.</b>          | DWL-G700AP  |
| <b>POWER SUPPLY</b>       | 5Vdc from power adapter   |
| <b>MODULATION TYPE</b>    | BPSK, QPSK, CCK, 16QAM, 64QAM   |
| <b>RADIO TECHNOLOGY</b>   | DSSS, OFDM  |
| <b>TRANSFER RATE</b>      | IEEE 802.11b: 11/5.5/2/1Mbps<br>IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps |
| <b>FREQUENCY RANGE</b>    | 2412MHz ~ 2462MHz   |
| <b>NUMBER OF CHANNEL</b>  | 11  |
| <b>OUTPUT POWER</b>       | 47.206mW  |
| <b>ANTENNA TYPE</b>       | Dipole & PIFA antenna with 2dBi gain                                    |
| <b>DATA CABLE</b>         | NA  |
| <b>I/O PORTS</b>          | RJ45  |
| <b>ASSOCIATED DEVICES</b> | NA  |

**NOTE:**

1. This report is issued as a duplicate report of RF930209R02 and differences are the brand, product name, model no., and applicant.
2. The EUT was operated with following power adapter:
 

|                |                           |
|----------------|---------------------------|
| <b>Brand:</b>  | D-Link                    |
| <b>Model:</b>  | SMP-T1378                 |
| <b>Input:</b>  | 100-120Vac, 0.5A, 50-60Hz |
| <b>Output:</b> | 5Vdc, 2.0A                |
3. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 54Mbps
4. The EUT complies with IEEE 802.11g standards and backwards compatible with IEEE 802.11b products.
5. 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 to this EUT.

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

**NOTE:**

1. Below 1GHz, the channel 1, 6, and 11 were pre-tested in chamber. The channel 11, worst case one, was chosen for final test.
2. Above 1GHz, the channel 1, 6, and 11 were tested individually.
3. From our experience and technical viewpoint, we have chosen data rates 11Mbps for CCK technique and 6Mbps for OFDM technique, as the worst cases for the test among other data rates.

### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

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

**ANSI C63.4: 2003**

All test items 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 FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



### 3.4 DESCRIPTION OF SUPPORT UNITS

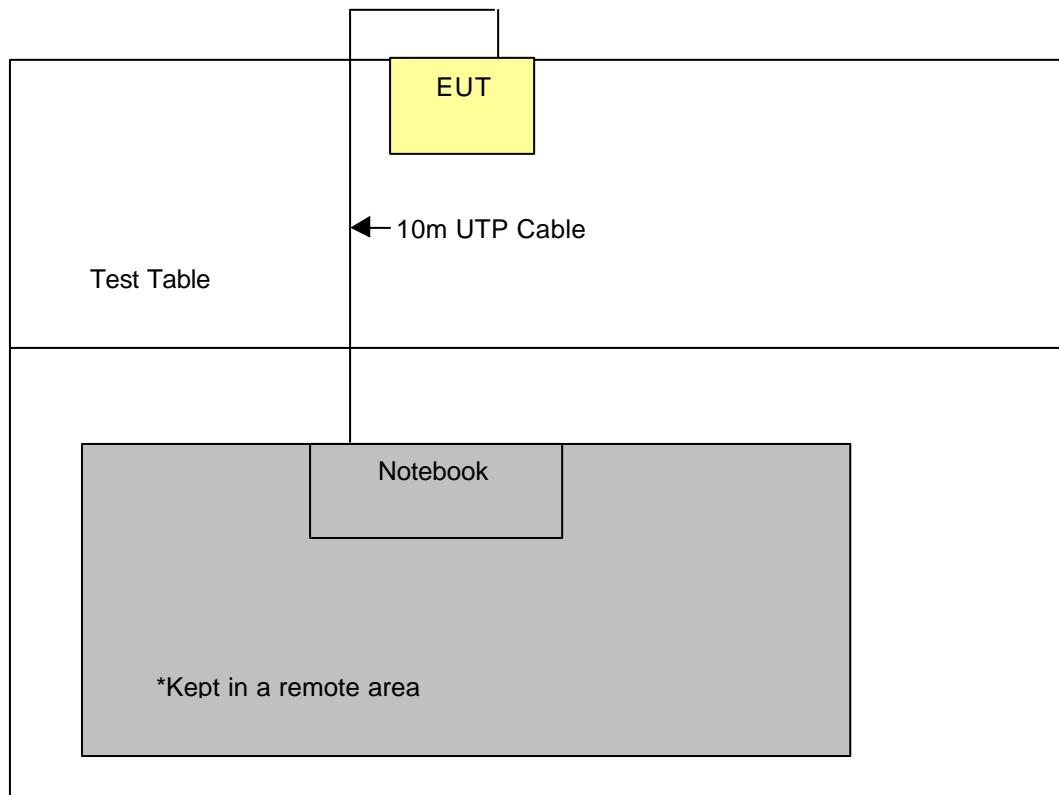
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| NO. | PRODUCT  | BRAND | MODEL NO. | SERIAL NO.               | FCC ID           |
|-----|----------|-------|-----------|--------------------------|------------------|
| 1   | NOTEBOOK | DELL  | PP01L     | TW-0791UH-12800-123-5423 | FCC DoC Approved |

| 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





## 4 TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB $\mu$ V) |          |
|-----------------------------|------------------------------|----------|
|                             | Quasi-peak                   | Average  |
| 0.15-0.5                    | 66 to 56                     | 56 to 46 |
| 0.5-5                       | 56                           | 46       |
| 5-30                        | 60                           | 50       |

**NOTE:**

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

#### 4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER                                 | MODEL NO.  | SERIAL NO.   | CALIBRATED UNTIL |
|--|------------|--------------|------------------|
| ROHDE & SCHWARZ Test Receiver                              | ESCS 30    | 838251/021   | Jan. 04, 2005    |
| ROHDE & SCHWARZ Artificial Mains Network (for EUT)         | ESH3-Z5    | 100218       | Dec. 09, 2004    |
| ROHDE & SCHWARZ Artificial Mains Network (for peripherals) | ESH3-Z5    | 100219       | Dec. 09, 2004    |
| ROHDE & SCHWARZ Artificial Mains Network (for peripherals) | ESH3-Z5    | 100220       | Dec. 09, 2004    |
| *ROHDE & SCHWARZ 4-wire ISN                                | ENY41      | 837032/016   | Nov. 19, 2004    |
| *ROHDE & SCHWARZ 2-wire ISN                                | ENY22      | 837497/016   | Nov. 19, 2004    |
| Software   | Cond-V2M3  | NA           | NA               |
| RF cable (JYEBAO)  | 5D-FB      | Cable-C10.01 | May 01, 2004     |
| SUHNER Terminator (For ROHDE & SCHWARZ LISN)               | 65BNC-5001 | E1-010770    | Mar. 24, 2004    |
| SUHNER Terminator (For ROHDE & SCHWARZ LISN)               | 65BNC-5001 | E1-010773    | Apr. 06, 2004    |

- 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. “\*”: These equipment are used for conducted telecom port test only (if tested).
  3. The test was performed in ADT Shielded Room No. 10.
  4. The VCCI Site Registration No. is C-1312.



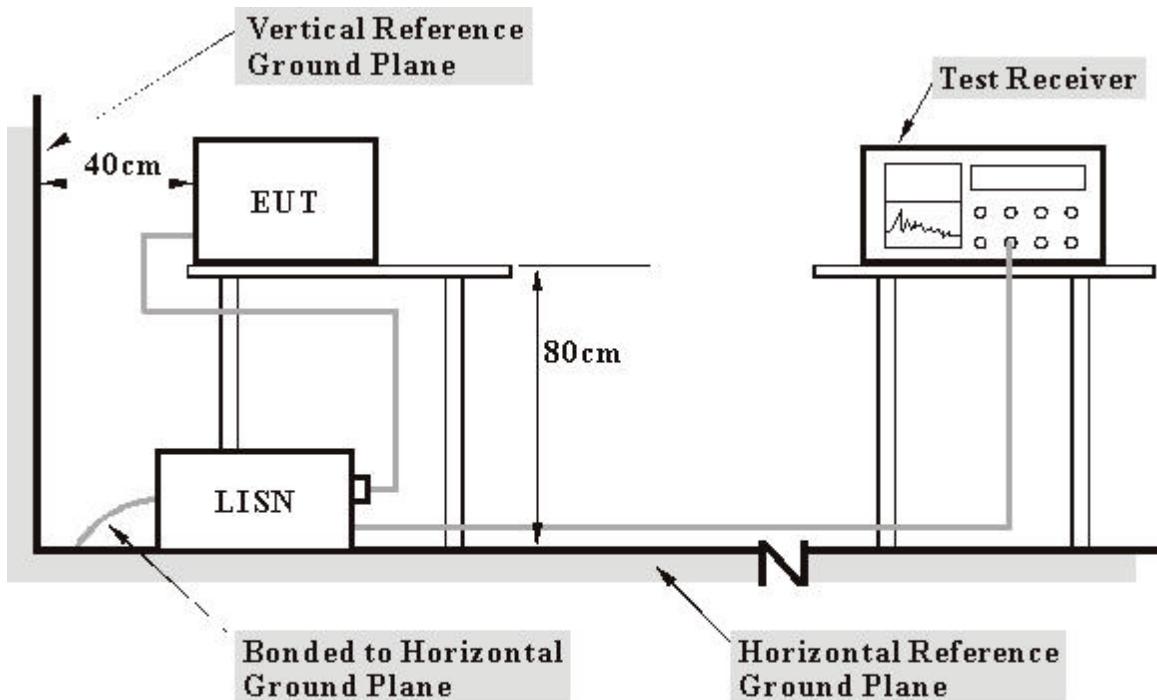
#### 4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under Limit - 20dB was not recorded.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



**Note:**

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

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

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared another notebook system to act as a communication partner and placed it outside of testing area.
- c. The communication partner run a test program to enable EUT under transmission/receiving condition continuously at specific channel frequency via an RJ45 cable.
- d. The communication partner sent data to EUT by command "PING".

## 4.1.7 TEST RESULTS

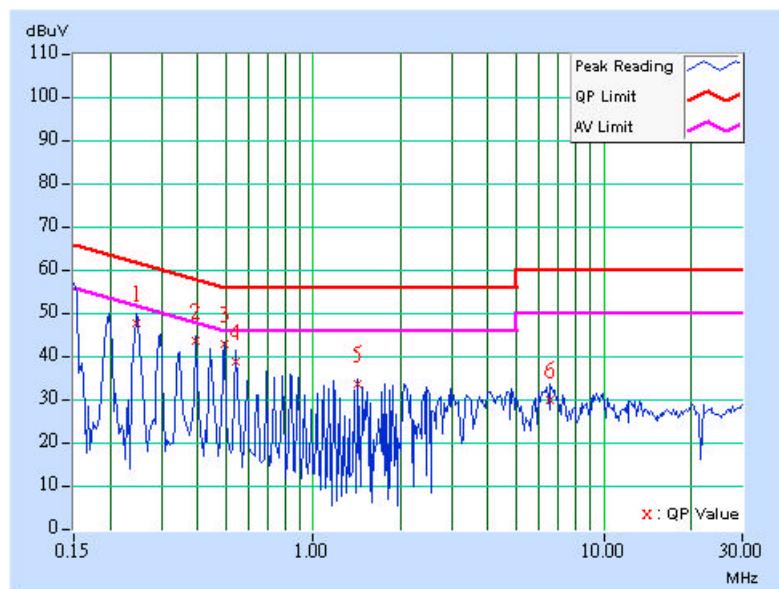
|                                 |                         |                      |             |
|---------------------------------|-------------------------|----------------------|-------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>MODEL</b>         | DWL-G700AP  |
| <b>MODE</b>                     | Channel 1               | <b>6dB BANDWIDTH</b> | 9kHz        |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>PHASE</b>         | Line (L)    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 75%RH, 991hPa | <b>TESTED BY:</b>    | Allen Chang |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.246          | 0.12                    | 47.41         | -   | 47.53          | -   | 61.89     | 51.89 | -14.36 | -   |
| 2  | 0.393          | 0.20                    | 43.38         | -   | 43.58          | -   | 58.00     | 48.00 | -14.42 | -   |
| 3  | 0.495          | 0.20                    | 42.41         | -   | 42.61          | -   | 56.08     | 46.08 | -13.47 | -   |
| 4  | 0.543          | 0.20                    | 38.57         | -   | 38.77          | -   | 56.00     | 46.00 | -17.23 | -   |
| 5  | 1.429          | 0.20                    | 33.29         | -   | 33.49          | -   | 56.00     | 46.00 | -22.51 | -   |
| 6  | 6.545          | 0.43                    | 29.57         | -   | 30.00          | -   | 60.00     | 50.00 | -30.00 | -   |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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



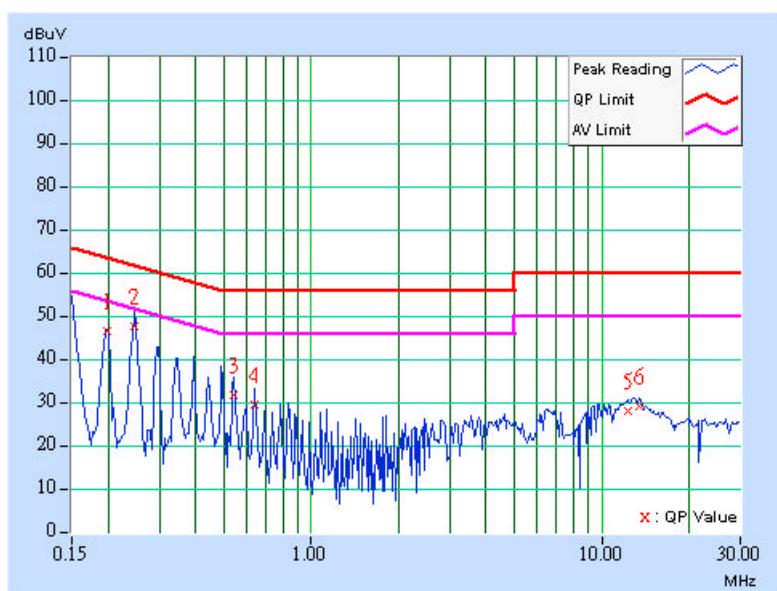
|                                 |                         |                      |                               |
|---------------------------------|-------------------------|----------------------|-------------------------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>MODEL</b>         | DWL-G700AP                    |
| <b>MODE</b>                     | Channel 1               | <b>6dB BANDWIDTH</b> | 9kHz                          |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>PHASE</b>         | Neutral (N)                   |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 75%RH, 991hPa |                      | <b>TESTED BY:</b> Allen Chang |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.198          | 0.10                    | 46.08         | -   | 46.18          | -   | 63.69     | 53.69 | -17.51 | -   |
| 2  | 0.246          | 0.12                    | 46.94         | -   | 47.06          | -   | 61.89     | 51.89 | -14.83 | -   |
| 3  | 0.543          | 0.20                    | 31.07         | -   | 31.27          | -   | 56.00     | 46.00 | -24.73 | -   |
| 4  | 0.639          | 0.20                    | 29.08         | -   | 29.28          | -   | 56.00     | 46.00 | -26.72 | -   |
| 5  | 12.392         | 0.64                    | 27.44         | -   | 28.08          | -   | 60.00     | 50.00 | -31.92 | -   |
| 6  | 13.424         | 0.71                    | 28.56         | -   | 29.27          | -   | 60.00     | 50.00 | -30.73 | -   |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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



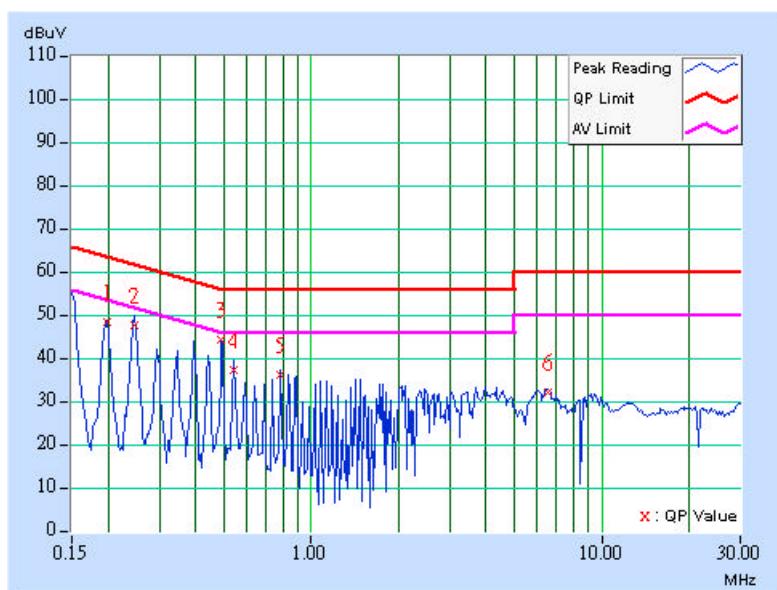
|                                 |                         |                      |                               |
|---------------------------------|-------------------------|----------------------|-------------------------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>MODEL</b>         | DWL-G700AP                    |
| <b>MODE</b>                     | Channel 6               | <b>6dB BANDWIDTH</b> | 9kHz                          |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>PHASE</b>         | Line (L)                      |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 75%RH, 991hPa |                      | <b>TESTED BY:</b> Allen Chang |

| No | Freq.        | Corr.<br>Factor | Reading Value |           | Emission Level |           | Limit        |              | Margin        |     |
|----|--------------|-----------------|---------------|-----------|----------------|-----------|--------------|--------------|---------------|-----|
|    |              |                 | [MHz]         | [dB (uV)] | [dB (uV)]      | [dB (uV)] | [dB (uV)]    | (dB)         |               |     |
|    | (dB)         |                 | Q.P.          | AV.       | Q.P.           | AV.       | Q.P.         | AV.          | Q.P.          | AV. |
| 1  | 0.198        | 0.10            | 48.23         | -         | 48.33          | -         | 63.69        | 53.69        | -15.36        | -   |
| 2  | 0.246        | 0.12            | 47.24         | -         | 47.36          | -         | 61.89        | 51.89        | -14.53        | -   |
| 3  | <b>0.492</b> | <b>0.20</b>     | <b>43.94</b>  | -         | <b>44.14</b>   | -         | <b>56.13</b> | <b>46.13</b> | <b>-11.99</b> | -   |
| 4  | 0.543        | 0.20            | 37.13         | -         | 37.33          | -         | 56.00        | 46.00        | -18.67        | -   |
| 5  | 0.786        | 0.20            | 35.78         | -         | 35.98          | -         | 56.00        | 46.00        | -20.02        | -   |
| 6  | 6.533        | 0.43            | 31.74         | -         | 32.17          | -         | 60.00        | 50.00        | -27.83        | -   |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

**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
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6. Emission Level = Correction Factor + Reading Value.



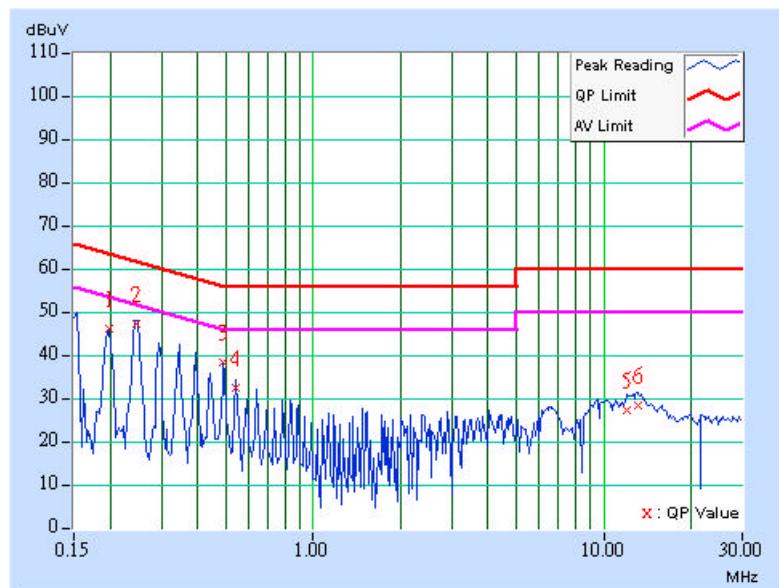
|                                 |                         |                      |                               |
|---------------------------------|-------------------------|----------------------|-------------------------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>MODEL</b>         | DWL-G700AP                    |
| <b>MODE</b>                     | Channel 6               | <b>6dB BANDWIDTH</b> | 9kHz                          |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>PHASE</b>         | Neutral (N)                   |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 75%RH, 991hPa |                      | <b>TESTED BY:</b> Allen Chang |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.198          | 0.10                    | 45.72         | -   | 45.82          | -   | 63.69     | 53.69 | -17.87 | -   |
| 2  | 0.246          | 0.12                    | 46.84         | -   | 46.96          | -   | 61.89     | 51.89 | -14.93 | -   |
| 3  | 0.492          | 0.20                    | 37.98         | -   | 38.18          | -   | 56.13     | 46.13 | -17.95 | -   |
| 4  | 0.540          | 0.20                    | 32.02         | -   | 32.22          | -   | 56.00     | 46.00 | -23.78 | -   |
| 5  | 11.945         | 0.62                    | 26.90         | -   | 27.52          | -   | 60.00     | 50.00 | -32.48 | -   |
| 6  | 13.076         | 0.68                    | 27.97         | -   | 28.65          | -   | 60.00     | 50.00 | -31.35 | -   |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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



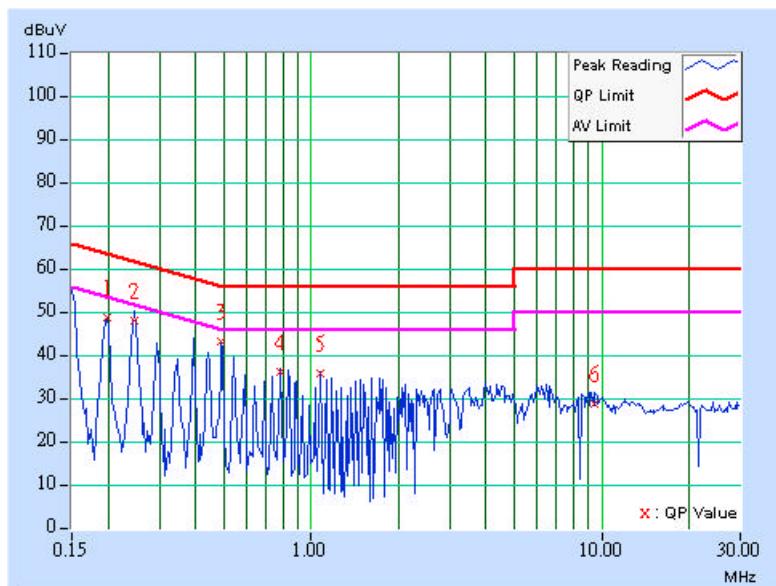
|                                 |                         |                      |                               |
|---------------------------------|-------------------------|----------------------|-------------------------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>MODEL</b>         | DWL-G700AP                    |
| <b>MODE</b>                     | Channel 11              | <b>6dB BANDWIDTH</b> | 9kHz                          |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>PHASE</b>         | Line (L)                      |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 75%RH, 991hPa |                      | <b>TESTED BY:</b> Allen Chang |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.198          | 0.10                    | 48.27         | -   | 48.37          | -   | 63.69     | 53.69 | -15.32 | -   |
| 2  | 0.246          | 0.12                    | 47.41         | -   | 47.53          | -   | 61.89     | 51.89 | -14.36 | -   |
| 3  | 0.489          | 0.20                    | 42.71         | -   | 42.91          | -   | 56.18     | 46.18 | -13.27 | -   |
| 4  | 0.786          | 0.20                    | 35.82         | -   | 36.02          | -   | 56.00     | 46.00 | -19.98 | -   |
| 5  | 1.081          | 0.20                    | 35.42         | -   | 35.62          | -   | 56.00     | 46.00 | -20.38 | -   |
| 6  | 9.482          | 0.57                    | 28.41         | -   | 28.98          | -   | 60.00     | 50.00 | -31.02 | -   |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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



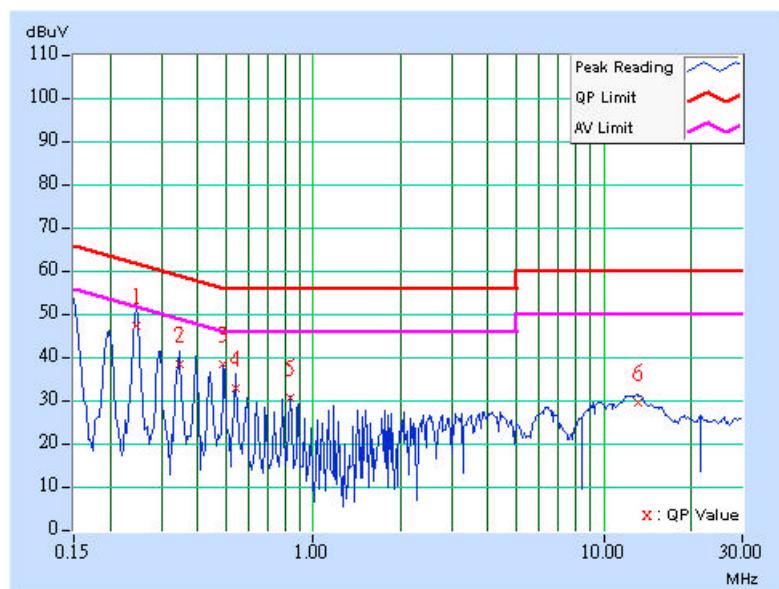
|                                 |                         |                      |                               |
|---------------------------------|-------------------------|----------------------|-------------------------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>MODEL</b>         | DWL-G700AP                    |
| <b>MODE</b>                     | Channel 11              | <b>6dB BANDWIDTH</b> | 9kHz                          |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>PHASE</b>         | Neutral (N)                   |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 75%RH, 991hPa |                      | <b>TESTED BY:</b> Allen Chang |

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value |     | Emission Level |     | Limit     |       | Margin |     |
|----|----------------|-------------------------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
|    |                |                         | [dB (uV)]     |     | [dB (uV)]      |     | [dB (uV)] |       | (dB)   |     |
|    |                |                         | Q.P.          | AV. | Q.P.           | AV. | Q.P.      | AV.   | Q.P.   | AV. |
| 1  | 0.246          | 0.12                    | 46.72         | -   | 46.84          | -   | 61.89     | 51.89 | -15.05 | -   |
| 2  | 0.345          | 0.17                    | 37.67         | -   | 37.84          | -   | 59.08     | 49.08 | -21.24 | -   |
| 3  | 0.492          | 0.20                    | 37.98         | -   | 38.18          | -   | 56.13     | 46.13 | -17.95 | -   |
| 4  | 0.540          | 0.20                    | 32.22         | -   | 32.42          | -   | 56.00     | 46.00 | -23.58 | -   |
| 5  | 0.834          | 0.20                    | 30.09         | -   | 30.29          | -   | 56.00     | 46.00 | -25.71 | -   |
| 6  | 13.061         | 0.68                    | 29.07         | -   | 29.75          | -   | 60.00     | 50.00 | -30.25 | -   |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

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





## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

| Frequencies (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 (dB<sub>UV</sub>/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              | 8593E              | 3911A07465    | Jul. 07, 2004    |
| *HP Preamplifier                   | 8447D              | 2944A10386    | Aug. 12, 2004    |
| * HP Preamplifier                  | 8449B              | 3008A01292    | Aug. 11, 2004    |
| SCHAFFNER Tunable Dipole Antenna   | VHBA 9123          | 459           | Jun. 26, 2004    |
| SCHWARZBECK Tunable Dipole Antenna | UHA 9105           | 977           |                  |
| *SCHAFFNER TEST RECEIVER           | SCR 3501           | 409           | Nov. 06, 2004    |
| * SCHAFFNER BILOG Antenna          | CBL6111C           | 2727          | Jul. 15, 2004    |
| * SCHWARZBECK Horn Antenna         | BBHA9120-D1        | D130          | Jun. 30, 2004    |
| * ADT. Turn Table                  | TT100              | 0201          | NA               |
| * ADT. Tower                       | AT100              | 0201          | NA               |
| * Software                         | ADT_Radiated_V5.14 | NA            | NA               |
| * ANRITSU RF Switches              | MP59B              | 6100237246    | Oct. 17, 2004    |
| * TIMES RF cable                   | LMR-600            | CABLE-ST10-01 | Oct. 17, 2004    |

- 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. “\*\*” = These equipment are used for the final measurement.
  3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  4. The test was performed in ADT Open Site No. 10.
  5. The VCCI Site Registration No. is R-1625.



#### 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.

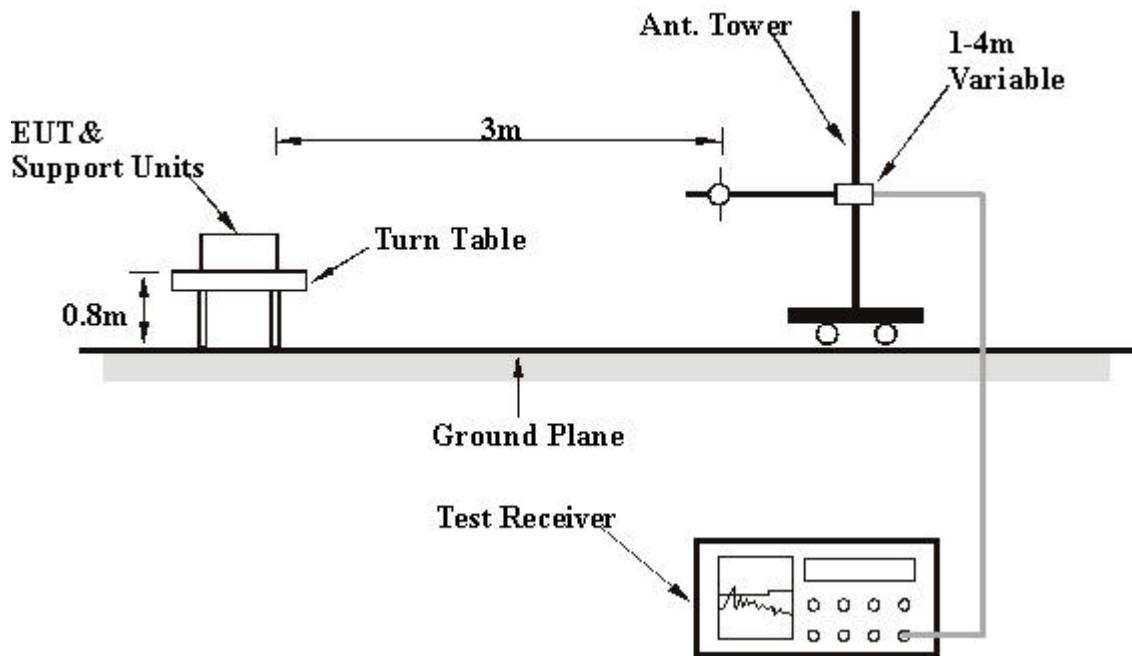
**NOTE:**

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

#### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP



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

#### 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6



## 4.2.7 TEST RESULTS

|                                 |                         |                             |               |
|---------------------------------|-------------------------|-----------------------------|---------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>Model</b>                | DWL-G700AP    |
| <b>MODE</b>                     | Channel 11              | <b>FREQUENCY RANGE</b>      | Below 1000MHz |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>DETECTOR FUNCTION</b>    | Quasi-Peak    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 64%RH, 991hPa | <b>TESTED BY:</b> Steven Lu |               |

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

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 43.61          | 37.13 QP                      | 40.00             | -2.87          | 1.25 H                   | 4                          | 23.04                  | 14.08                          |
| 2   | 96.09          | 40.78 QP                      | 43.50             | -2.72          | 4.00 H                   | 337                        | 31.25                  | 9.53                           |
| 3   | 127.19         | 40.71 QP                      | 43.50             | -2.79          | 4.00 H                   | 217                        | 28.30                  | 12.42                          |
| 4   | 156.35         | 40.28 QP                      | 43.50             | -3.22          | 4.00 H                   | 352                        | 26.60                  | 13.68                          |
| 5   | 288.54         | 34.67 QP                      | 46.00             | -11.33         | 4.00 H                   | 214                        | 20.57                  | 14.10                          |
| 6   | 428.50         | 35.66 QP                      | 46.00             | -10.34         | 1.50 H                   | 241                        | 17.89                  | 17.77                          |
| 7   | 479.04         | 35.36 QP                      | 46.00             | -10.64         | 4.00 H                   | 196                        | 16.57                  | 18.79                          |
| 8   | 558.74         | 32.72 QP                      | 46.00             | -13.28         | 4.00 H                   | 193                        | 12.26                  | 20.46                          |
| 9   | 640.38         | 37.65 QP                      | 46.00             | -8.35          | 1.25 H                   | 133                        | 15.53                  | 22.12                          |
| 10  | 665.65         | 35.92 QP                      | 46.00             | -10.08         | 1.50 H                   | 325                        | 13.47                  | 22.45                          |
| 11  | 751.18         | 32.93 QP                      | 46.00             | -13.07         | 1.00 H                   | 142                        | 8.68                   | 24.24                          |
| 12  | 799.78         | 42.79 QP                      | 46.00             | -3.21          | 1.00 H                   | 145                        | 18.38                  | 24.41                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                         |                             |               |
|---------------------------------|-------------------------|-----------------------------|---------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>Model</b>                | DWL-G700AP    |
| <b>MODE</b>                     | Channel 11              | <b>FREQUENCY RANGE</b>      | Below 1000MHz |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>DETECTOR FUNCTION</b>    | Quasi-Peak    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 64%RH, 991hPa | <b>TESTED BY:</b> Steven Lu |               |

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

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 58.75          | 34.63 QP                      | 40.00             | -5.37          | 1.25 V                   | 286                        | 21.96                  | 12.67                          |
| 2   | 83.06          | 33.13 QP                      | 40.00             | -6.87          | 1.76 V                   | 305                        | 24.27                  | 8.86                           |
| 3   | 187.45         | 39.04 QP                      | 43.50             | -4.46          | 1.25 V                   | 178                        | 27.74                  | 11.29                          |
| 4   | 245.77         | 35.08 QP                      | 46.00             | -10.92         | 1.00 V                   | 340                        | 22.49                  | 12.59                          |
| 5   | 276.87         | 41.43 QP                      | 46.00             | -4.57          | 1.25 V                   | 319                        | 27.66                  | 13.77                          |
| 6   | 383.79         | 31.01 QP                      | 46.00             | -14.99         | 1.25 V                   | 310                        | 14.49                  | 16.52                          |
| 7   | 479.04         | 33.25 QP                      | 46.00             | -12.75         | 1.00 V                   | 256                        | 14.46                  | 18.79                          |
| 8   | 535.41         | 35.33 QP                      | 46.00             | -10.67         | 1.50 V                   | 151                        | 15.44                  | 19.89                          |
| 9   | 564.57         | 37.93 QP                      | 46.00             | -8.07          | 1.25 V                   | 337                        | 17.32                  | 20.62                          |
| 10  | 622.89         | 36.58 QP                      | 46.00             | -9.42          | 1.25 V                   | 346                        | 14.69                  | 21.89                          |
| 11  | 640.38         | 35.40 QP                      | 46.00             | -10.60         | 1.25 V                   | 178                        | 13.27                  | 22.12                          |
| 12  | 700.64         | 32.77 QP                      | 46.00             | -13.23         | 1.25 V                   | 202                        | 9.86                   | 22.91                          |
| 13  | 799.78         | 37.10 QP                      | 46.00             | -8.90          | 1.00 V                   | 22                         | 12.69                  | 24.41                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

- 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 (FOR CCK)

|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 1                  | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.   | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1   | 1120.00        | 41.12 PK                      | 74.00             | -32.88         | 1.00 H                   | 41                         | 12.10                  | 29.02                          |
| 1   | 1120.00        | 35.12 AV                      | 54.00             | -18.88         | 1.00 H                   | 41                         | 6.10                   | 29.02                          |
| 2   | 1280.00        | 42.41 PK                      | 74.00             | -31.59         | 1.26 H                   | 329                        | 13.51                  | 28.90                          |
| 2   | 1280.00        | 37.64 AV                      | 54.00             | -16.36         | 1.26 H                   | 329                        | 8.74                   | 28.90                          |
| 3   | 2266.00        | 44.73 PK                      | 74.00             | -29.27         | 1.33 H                   | 326                        | 13.29                  | 31.44                          |
| 3   | 2266.00        | 38.51 AV                      | 54.00             | -15.49         | 1.33 H                   | 326                        | 7.07                   | 31.44                          |
| 4   | 2300.00        | 45.62 PK                      | 74.00             | -28.38         | 1.33 H                   | 326                        | 14.11                  | 31.51                          |
| 4   | 2300.00        | 38.89 AV                      | 54.00             | -15.11         | 1.33 H                   | 326                        | 7.38                   | 31.51                          |
| 5   | 2310.00        | 44.88 PK                      | 74.00             | -29.12         | 1.33 H                   | 326                        | 13.48                  | 31.40                          |
| 5   | 2310.00        | 37.96 AV                      | 54.00             | -16.04         | 1.33 H                   | 326                        | 6.56                   | 31.40                          |
| 6   | 2354.00        | 43.04 PK                      | 74.00             | -30.96         | 1.00 H                   | 325                        | 12.13                  | 30.92                          |
| 6   | 2354.00        | 32.04 AV                      | 54.00             | -21.96         | 1.00 H                   | 325                        | 1.13                   | 30.92                          |
| 7   | 2376.00        | 41.27 PK                      | 74.00             | -32.73         | 1.00 H                   | 325                        | 10.59                  | 30.67                          |
| 7   | 2376.00        | 30.80 AV                      | 54.00             | -23.20         | 1.00 H                   | 325                        | 0.12                   | 30.67                          |
| 8   | *2412.00       | 99.43 PK                      |                   |                | 1.20 H                   | 327                        | 69.01                  | 30.42                          |
| 8   | *2412.00       | 91.27 AV                      |                   |                | 1.20 H                   | 327                        | 60.85                  | 30.42                          |
| 9   | 2500.00        | 46.00 PK                      | 74.00             | -28.00         | 1.26 H                   | 27                         | 15.53                  | 30.47                          |
| 9   | 2500.00        | 38.74 AV                      | 54.00             | -15.26         | 1.26 H                   | 27                         | 8.27                   | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 1                  | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |                |                               |                   |                |                          |                            |                        |                                |
|--|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.  | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1  | 1120.00        | 40.43 PK                      | 74.00             | -33.57         | 1.04 V                   | 328                        | 11.41                  | 29.02                          |
| 1  | 1120.00        | 34.47 AV                      | 54.00             | -19.53         | 1.04 V                   | 328                        | 5.45                   | 29.02                          |
| 2  | 1280.00        | 40.98 PK                      | 74.00             | -33.02         | 1.27 V                   | 140                        | 12.08                  | 28.90                          |
| 2  | 1280.00        | 34.63 AV                      | 54.00             | -19.37         | 1.27 V                   | 140                        | 5.73                   | 28.90                          |
| 3  | 2354.00        | 48.69 PK                      | 74.00             | -25.31         | 1.11 V                   | 360                        | 17.78                  | 30.92                          |
| 3  | 2354.00        | 41.72 AV                      | 54.00             | -12.28         | 1.11 V                   | 360                        | 10.81                  | 30.92                          |
| 4  | 2376.00        | 49.18 PK                      | 74.00             | -24.82         | 1.16 V                   | 343                        | 18.50                  | 30.67                          |
| 4  | 2376.00        | 41.87 AV                      | 54.00             | -12.13         | 1.16 V                   | 343                        | 11.19                  | 30.67                          |
| 5  | *2412.00       | 111.91 PK                     |                   |                | 1.13 V                   | 347                        | 81.49                  | 30.42                          |
| 5  | *2412.00       | 103.77 AV                     |                   |                | 1.13 V                   | 347                        | 73.35                  | 30.42                          |
| 6  | 2500.00        | 56.00 PK                      | 74.00             | -18.00         | 1.15 V                   | 24                         | 25.53                  | 30.47                          |
| 6  | 2500.00        | 50.88 AV                      | 54.00             | -3.12          | 1.15 V                   | 24                         | 20.41                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 6                  | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

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

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 1120.00        | 40.12 PK                      | 74.00             | -33.88         | 1.40 H                   | 83                         | 11.10                  | 29.02                          |
| 1   | 1120.00        | 34.37 AV                      | 54.00             | -19.63         | 1.40 H                   | 83                         | 5.35                   | 29.02                          |
| 2   | 1280.00        | 42.22 PK                      | 74.00             | -31.78         | 1.21 H                   | 86                         | 13.32                  | 28.90                          |
| 2   | 1280.00        | 38.20 AV                      | 54.00             | -15.80         | 1.21 H                   | 86                         | 9.30                   | 28.90                          |
| 3   | 2240.00        | 42.02 PK                      | 74.00             | -31.98         | 1.00 H                   | 68                         | 10.64                  | 31.38                          |
| 3   | 2240.00        | 35.21 AV                      | 54.00             | -18.79         | 1.00 H                   | 68                         | 3.83                   | 31.38                          |
| 4   | 2250.00        | 42.01 PK                      | 74.00             | -31.99         | 1.02 H                   | 326                        | 10.61                  | 31.40                          |
| 4   | 2250.00        | 34.73 AV                      | 54.00             | -19.27         | 1.02 H                   | 326                        | 3.33                   | 31.40                          |
| 5   | 2266.00        | 45.29 PK                      | 74.00             | -28.71         | 1.02 H                   | 328                        | 13.85                  | 31.44                          |
| 5   | 2266.00        | 39.46 AV                      | 54.00             | -14.54         | 1.02 H                   | 328                        | 8.02                   | 31.44                          |
| 6   | 2300.00        | 45.85 PK                      | 74.00             | -28.15         | 1.35 H                   | 327                        | 14.34                  | 31.51                          |
| 6   | 2300.00        | 36.34 AV                      | 54.00             | -17.66         | 1.35 H                   | 327                        | 4.83                   | 31.51                          |
| 7   | 2310.00        | 45.24 PK                      | 74.00             | -28.76         | 1.34 H                   | 327                        | 13.84                  | 31.40                          |
| 7   | 2310.00        | 38.24 AV                      | 54.00             | -15.76         | 1.34 H                   | 327                        | 6.84                   | 31.40                          |
| 8   | *2437.00       | 102.82 PK                     |                   |                | 1.00 H                   | 55                         | 71.31                  | 31.51                          |
| 8   | *2437.00       | 94.74 AV                      |                   |                | 1.00 H                   | 55                         | 63.23                  | 31.51                          |
| 9   | 2486.00        | 54.90 PK                      | 74.00             | -19.10         | 1.00 H                   | 55                         | 24.44                  | 30.46                          |
| 9   | 2486.00        | 46.82 AV                      | 54.00             | -7.18          | 1.00 H                   | 55                         | 16.36                  | 30.46                          |
| 10  | 2500.00        | 51.43 PK                      | 74.00             | -22.57         | 1.00 H                   | 55                         | 20.96                  | 30.47                          |
| 10  | 2500.00        | 43.35 AV                      | 54.00             | -10.65         | 1.00 H                   | 55                         | 12.88                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 6                  | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3M</b> |                |                               |                   |                |                          |                            |                        |                                |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.   | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1   | 1120.00        | 39.12 PK                      | 74.00             | -34.88         | 1.16 V                   | 328                        | 10.10                  | 29.02                          |
| 1   | 1120.00        | 33.57 AV                      | 54.00             | -20.43         | 1.16 V                   | 328                        | 4.55                   | 29.02                          |
| 2   | 1280.00        | 40.35 PK                      | 74.00             | -33.65         | 1.52 V                   | 7                          | 11.45                  | 28.90                          |
| 2   | 1280.00        | 32.80 AV                      | 54.00             | -21.20         | 1.52 V                   | 7                          | 3.90                   | 28.90                          |
| 3   | 2240.00        | 47.69 PK                      | 74.00             | -26.31         | 1.00 V                   | 10                         | 16.31                  | 31.38                          |
| 3   | 2240.00        | 43.15 AV                      | 54.00             | -10.85         | 1.00 V                   | 10                         | 11.77                  | 31.38                          |
| 4   | 2250.00        | 47.54 PK                      | 74.00             | -26.46         | 1.00 V                   | 10                         | 16.14                  | 31.40                          |
| 4   | 2250.00        | 42.04 AV                      | 54.00             | -11.96         | 1.00 V                   | 10                         | 10.64                  | 31.40                          |
| 5   | 2266.00        | 53.50 PK                      | 74.00             | -20.50         | 1.28 V                   | 350                        | 22.06                  | 31.44                          |
| 5   | 2266.00        | 48.89 AV                      | 54.00             | -5.11          | 1.28 V                   | 350                        | 17.45                  | 31.44                          |
| 6   | 2300.00        | 50.42 PK                      | 74.00             | -23.58         | 1.01 V                   | 330                        | 18.91                  | 31.51                          |
| 6   | 2300.00        | 43.00 AV                      | 54.00             | -11.00         | 1.01 V                   | 330                        | 11.49                  | 31.51                          |
| 7   | 2310.00        | 50.61 PK                      | 74.00             | -23.39         | 1.01 V                   | 330                        | 19.21                  | 31.40                          |
| 7   | 2310.00        | 46.36 AV                      | 54.00             | -7.64          | 1.01 V                   | 330                        | 14.96                  | 31.40                          |
| 8   | *2437.00       | 112.79 PK                     |                   |                | 1.16 V                   | 22                         | 82.36                  | 30.43                          |
| 8   | *2437.00       | 104.65 AV                     |                   |                | 1.16 V                   | 22                         | 74.22                  | 30.43                          |
| 9   | 2486.00        | 61.84 PK                      | 74.00             | -12.16         | 1.16 V                   | 22                         | 31.38                  | 30.46                          |
| 9   | <b>2486.00</b> | <b>53.70 AV</b>               | <b>54.00</b>      | <b>-0.30</b>   | <b>1.16 V</b>            | <b>22</b>                  | <b>23.24</b>           | <b>30.46</b>                   |
| 10  | 2500.00        | 59.40 PK                      | 74.00             | -14.60         | 1.16 V                   | 22                         | 28.93                  | 30.47                          |
| 10  | 2500.00        | 51.26 AV                      | 54.00             | -2.74          | 1.16 V                   | 22                         | 20.79                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 11                 | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3M</b> |                |                               |                   |                |                          |                            |                        |                                |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.   | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1   | 1120.00        | 40.76 PK                      | 74.00             | -33.24         | 1.00 H                   | 40                         | 11.74                  | 29.02                          |
| 1   | 1120.00        | 34.36 AV                      | 54.00             | -19.64         | 1.00 H                   | 40                         | 5.34                   | 29.02                          |
| 2   | 1280.00        | 43.02 PK                      | 74.00             | -30.98         | 1.12 H                   | 92                         | 14.12                  | 28.90                          |
| 2   | 1280.00        | 38.37 AV                      | 54.00             | -15.63         | 1.12 H                   | 92                         | 9.47                   | 28.90                          |
| 3   | 2244.00        | 41.97 PK                      | 74.00             | -32.03         | 1.00 H                   | 328                        | 10.58                  | 31.39                          |
| 3   | 2244.00        | 34.74 AV                      | 54.00             | -19.26         | 1.00 H                   | 328                        | 3.35                   | 31.39                          |
| 4   | 2250.00        | 42.71 PK                      | 74.00             | -31.29         | 1.00 H                   | 328                        | 11.31                  | 31.40                          |
| 4   | 2250.00        | 36.37 AV                      | 54.00             | -17.63         | 1.00 H                   | 328                        | 4.97                   | 31.40                          |
| 5   | 2266.00        | 41.88 PK                      | 74.00             | -32.12         | 1.25 H                   | 303                        | 10.44                  | 31.44                          |
| 5   | 2266.00        | 36.14 AV                      | 54.00             | -17.86         | 1.25 H                   | 303                        | 4.70                   | 31.44                          |
| 6   | 2300.00        | 46.53 PK                      | 74.00             | -27.47         | 1.34 H                   | 328                        | 15.02                  | 31.51                          |
| 6   | 2300.00        | 38.64 AV                      | 54.00             | -15.36         | 1.34 H                   | 328                        | 7.13                   | 31.51                          |
| 7   | 2310.00        | 44.85 PK                      | 74.00             | -29.15         | 1.28 H                   | 332                        | 13.45                  | 31.40                          |
| 7   | 2310.00        | 36.74 AV                      | 54.00             | -17.26         | 1.28 H                   | 332                        | 5.34                   | 31.40                          |
| 8   | *2462.00       | 100.31 PK                     |                   |                | 1.00 H                   | 301                        | 69.86                  | 30.45                          |
| 8   | *2462.00       | 92.34 AV                      |                   |                | 1.00 H                   | 301                        | 61.89                  | 30.45                          |
| 9   | 2500.00        | 48.68 PK                      | 74.00             | -25.32         | 1.00 H                   | 301                        | 18.21                  | 30.47                          |
| 9   | 2500.00        | 40.71 AV                      | 54.00             | -13.29         | 1.00 H                   | 301                        | 10.24                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 11                 | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3M</b> |                |                               |                   |                |                          |                            |                        |                                |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.   | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1   | 1120.00        | 39.43 PK                      | 74.00             | -34.57         | 1.16 V                   | 290                        | 10.41                  | 29.02                          |
| 1   | 1120.00        | 32.36 AV                      | 54.00             | -21.64         | 1.16 V                   | 290                        | 3.34                   | 29.02                          |
| 2   | 1280.00        | 40.23 PK                      | 74.00             | -33.77         | 1.25 V                   | 142                        | 11.33                  | 28.90                          |
| 2   | 1280.00        | 33.67 AV                      | 54.00             | -20.33         | 1.25 V                   | 142                        | 4.77                   | 28.90                          |
| 3   | 2250.00        | 48.32 PK                      | 74.00             | -25.68         | 1.29 V                   | 353                        | 16.92                  | 31.40                          |
| 3   | 2250.00        | 43.12 AV                      | 54.00             | -10.88         | 1.29 V                   | 353                        | 11.72                  | 31.40                          |
| 4   | 2266.00        | 53.36 PK                      | 74.00             | -20.64         | 1.29 V                   | 353                        | 21.92                  | 31.44                          |
| 4   | 2266.00        | 49.05 AV                      | 54.00             | -4.95          | 1.29 V                   | 353                        | 17.61                  | 31.44                          |
| 5   | 2300.00        | 53.77 PK                      | 74.00             | -20.23         | 1.00 V                   | 350                        | 22.26                  | 31.51                          |
| 5   | 2300.00        | 48.21 AV                      | 54.00             | -5.79          | 1.00 V                   | 350                        | 16.70                  | 31.51                          |
| 6   | 2310.00        | 53.69 PK                      | 74.00             | -20.31         | 1.00 V                   | 350                        | 22.29                  | 31.40                          |
| 6   | 2310.00        | 47.57 AV                      | 54.00             | -6.43          | 1.00 V                   | 350                        | 16.17                  | 31.40                          |
| 7   | *2462.00       | 109.30 PK                     |                   |                | 1.08 V                   | 24                         | 78.85                  | 30.45                          |
| 7   | *2462.00       | 101.47 AV                     |                   |                | 1.08 V                   | 24                         | 71.02                  | 30.45                          |
| 8   | 2500.00        | 59.67 PK                      | 74.00             | -14.33         | 1.08 V                   | 24                         | 29.20                  | 30.47                          |
| 8   | 2500.00        | 51.84 AV                      | 54.00             | -2.16          | 1.08 V                   | 24                         | 21.37                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



## 4.2.9 TEST RESULTS (FOR OFDM)

|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 1                  | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.   | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1   | 1120.00        | 40.63 PK                      | 74.00             | -33.37         | 1.00 H                   | 42                         | 11.61                  | 29.02                          |
| 1   | 1120.00        | 34.43 AV                      | 54.00             | -19.57         | 1.00 H                   | 42                         | 5.41                   | 29.02                          |
| 2   | 1280.00        | 42.79 PK                      | 74.00             | -31.21         | 1.14 H                   | 88                         | 13.89                  | 28.90                          |
| 2   | 1280.00        | 38.33 AV                      | 54.00             | -15.67         | 1.14 H                   | 88                         | 9.43                   | 28.90                          |
| 3   | 2266.00        | 45.53 PK                      | 74.00             | -28.47         | 1.04 H                   | 326                        | 14.09                  | 31.44                          |
| 3   | 2266.00        | 39.81 AV                      | 54.00             | -14.19         | 1.04 H                   | 326                        | 8.37                   | 31.44                          |
| 4   | 2300.00        | 47.18 PK                      | 74.00             | -26.82         | 1.36 H                   | 325                        | 15.67                  | 31.51                          |
| 4   | 2300.00        | 38.89 AV                      | 54.00             | -15.11         | 1.36 H                   | 325                        | 7.38                   | 31.51                          |
| 5   | 2310.00        | 45.54 PK                      | 74.00             | -28.46         | 1.36 H                   | 325                        | 14.14                  | 31.40                          |
| 5   | 2310.00        | 38.26 AV                      | 54.00             | -15.74         | 1.36 H                   | 325                        | 6.86                   | 31.40                          |
| 6   | 2354.00        | 43.54 PK                      | 74.00             | -30.46         | 1.00 H                   | 320                        | 12.62                  | 30.92                          |
| 6   | 2354.00        | 34.14 AV                      | 54.00             | -19.86         | 1.00 H                   | 320                        | 3.22                   | 30.92                          |
| 7   | *2412.00       | 94.94 PK                      |                   |                | 1.00 H                   | 320                        | 64.52                  | 30.42                          |
| 7   | *2412.00       | 85.54 AV                      |                   |                | 1.00 H                   | 320                        | 55.12                  | 30.42                          |
| 8   | 2500.00        | 48.07 PK                      | 74.00             | -25.93         | 1.00 H                   | 300                        | 17.60                  | 30.47                          |
| 8   | 2500.00        | 42.29 AV                      | 54.00             | -11.71         | 1.00 H                   | 300                        | 11.82                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 1                  | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |                |                               |                   |                |                          |                            |                        |                                |
|--|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.  | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1  | 1120.00        | 39.12 PK                      | 74.00             | -34.88         | 1.22 V                   | 287                        | 10.10                  | 29.02                          |
| 1  | 1120.00        | 34.13 AV                      | 54.00             | -19.87         | 1.22 V                   | 287                        | 5.11                   | 29.02                          |
| 2  | 1280.00        | 40.72 PK                      | 74.00             | -33.28         | 1.28 V                   | 40                         | 11.82                  | 28.90                          |
| 2  | 1280.00        | 34.36 AV                      | 54.00             | -19.64         | 1.28 V                   | 40                         | 5.46                   | 28.90                          |
| 3  | 2300.00        | 54.37 PK                      | 74.00             | -19.63         | 1.00 V                   | 353                        | 22.86                  | 31.51                          |
| 3  | 2300.00        | 48.06 AV                      | 54.00             | -5.94          | 1.00 V                   | 353                        | 16.55                  | 31.51                          |
| 4  | 2310.00        | 53.00 PK                      | 74.00             | -21.00         | 1.00 V                   | 353                        | 21.60                  | 31.40                          |
| 4  | 2310.00        | 48.10 AV                      | 54.00             | -5.90          | 1.00 V                   | 353                        | 16.70                  | 31.40                          |
| 5  | 2354.00        | 55.10 PK                      | 74.00             | -18.90         | 1.26 V                   | 274                        | 24.18                  | 30.92                          |
| 5  | 2354.00        | 45.44 AV                      | 54.00             | -8.56          | 1.26 V                   | 274                        | 14.52                  | 30.92                          |
| 6  | *2412.00       | 106.05 PK                     |                   |                | 1.26 V                   | 274                        | 75.63                  | 30.42                          |
| 6  | *2412.00       | 96.84 AV                      |                   |                | 1.26 V                   | 274                        | 66.42                  | 30.42                          |
| 7  | 2500.00        | 55.17 PK                      | 74.00             | -18.83         | 1.00 V                   | 52                         | 24.70                  | 30.47                          |
| 7  | 2500.00        | 50.10 AV                      | 54.00             | -3.90          | 1.00 V                   | 52                         | 19.63                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 6                  | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

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

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 1120.00        | 40.32 PK                      | 74.00             | -33.68         | 1.00 H                   | 40                         | 11.30                  | 29.02                          |
| 1   | 1120.00        | 33.96 AV                      | 54.00             | -20.04         | 1.00 H                   | 40                         | 4.94                   | 29.02                          |
| 2   | 1280.00        | 41.79 PK                      | 74.00             | -32.21         | 1.28 H                   | 328                        | 12.89                  | 28.90                          |
| 2   | 1280.00        | 36.96 AV                      | 54.00             | -17.04         | 1.28 H                   | 328                        | 8.06                   | 28.90                          |
| 3   | 2266.00        | 44.67 PK                      | 74.00             | -29.33         | 1.34 H                   | 326                        | 13.23                  | 31.44                          |
| 3   | 2266.00        | 38.98 AV                      | 54.00             | -15.02         | 1.34 H                   | 326                        | 7.54                   | 31.44                          |
| 4   | 2300.00        | 44.31 PK                      | 74.00             | -29.69         | 1.34 H                   | 326                        | 12.80                  | 31.51                          |
| 4   | 2300.00        | 35.44 AV                      | 54.00             | -18.56         | 1.34 H                   | 326                        | 3.93                   | 31.51                          |
| 5   | 2310.00        | 44.78 PK                      | 74.00             | -29.22         | 1.32 H                   | 325                        | 13.38                  | 31.40                          |
| 5   | 2310.00        | 37.64 AV                      | 54.00             | -16.36         | 1.32 H                   | 325                        | 6.24                   | 31.40                          |
| 6   | 2350.00        | 40.49 PK                      | 74.00             | -33.51         | 1.25 H                   | 330                        | 9.53                   | 30.96                          |
| 6   | 2350.00        | 29.87 AV                      | 54.00             | -24.13         | 1.25 H                   | 330                        | -1.09                  | 30.96                          |
| 7   | 2354.00        | 41.33 PK                      | 74.00             | -32.67         | 1.25 H                   | 330                        | 10.42                  | 30.92                          |
| 7   | 2354.00        | 31.15 AV                      | 54.00             | -22.85         | 1.25 H                   | 330                        | 0.24                   | 30.92                          |
| 8   | *2437.00       | 98.18 PK                      |                   |                | 1.20 H                   | 334                        | 67.75                  | 30.43                          |
| 8   | *2437.00       | 88.57 AV                      |                   |                | 1.20 H                   | 334                        | 58.14                  | 30.43                          |
| 9   | 2486.36        | 50.05 PK                      | 74.00             | -23.95         | 1.20 H                   | 334                        | 19.59                  | 30.46                          |
| 9   | 2486.36        | 40.44 AV                      | 54.00             | -13.56         | 1.20 H                   | 334                        | 9.98                   | 30.46                          |
| 10  | 2500.00        | 49.39 PK                      | 74.00             | -24.61         | 1.20 H                   | 334                        | 18.92                  | 30.47                          |
| 10  | 2500.00        | 39.78 AV                      | 54.00             | -14.22         | 1.20 H                   | 334                        | 9.31                   | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 6                  | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3M</b> |                |                               |                   |                |                          |                            |                        |                                |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.   | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1   | 1120.00        | 39.12 PK                      | 74.00             | -34.88         | 1.00 V                   | 310                        | 10.10                  | 29.02                          |
| 1   | 1120.00        | 30.97 AV                      | 54.00             | -23.03         | 1.00 V                   | 310                        | 1.95                   | 29.02                          |
| 2   | 1280.00        | 40.03 PK                      | 74.00             | -33.97         | 1.40 V                   | 312                        | 11.13                  | 28.90                          |
| 2   | 1280.00        | 32.98 AV                      | 54.00             | -21.02         | 1.40 V                   | 312                        | 4.08                   | 28.90                          |
| 3   | 2266.00        | 53.71 PK                      | 74.00             | -20.29         | 1.00 V                   | 351                        | 22.27                  | 31.44                          |
| 3   | 2266.00        | 49.40 AV                      | 54.00             | -4.60          | 1.00 V                   | 351                        | 17.96                  | 31.44                          |
| 4   | 2300.00        | 52.75 PK                      | 74.00             | -21.25         | 1.00 V                   | 351                        | 21.24                  | 31.51                          |
| 4   | 2300.00        | 45.31 AV                      | 54.00             | -8.69          | 1.00 V                   | 351                        | 13.80                  | 31.51                          |
| 5   | 2310.00        | 52.88 PK                      | 74.00             | -21.12         | 1.00 V                   | 351                        | 21.48                  | 31.40                          |
| 5   | 2310.00        | 47.87 AV                      | 54.00             | -6.13          | 1.00 V                   | 351                        | 16.47                  | 31.40                          |
| 6   | 2350.00        | 48.78 PK                      | 74.00             | -25.22         | 1.00 V                   | 351                        | 17.82                  | 30.96                          |
| 6   | 2350.00        | 39.38 AV                      | 54.00             | -14.62         | 1.00 V                   | 351                        | 8.42                   | 30.96                          |
| 7   | 2354.00        | 48.74 PK                      | 74.00             | -25.26         | 1.00 V                   | 351                        | 17.83                  | 30.92                          |
| 7   | 2354.00        | 40.26 AV                      | 54.00             | -13.74         | 1.00 V                   | 351                        | 9.38                   | 30.92                          |
| 8   | *2437.00       | 108.57 PK                     |                   |                | 1.18 V                   | 342                        | 78.14                  | 30.43                          |
| 8   | *2437.00       | 99.13 AV                      |                   |                | 1.18 V                   | 342                        | 68.70                  | 30.43                          |
| 9   | 2486.36        | 60.44 PK                      | 74.00             | -13.56         | 1.18 V                   | 342                        | 29.98                  | 30.46                          |
| 9   | 2486.36        | 51.00 AV                      | 54.00             | -3.00          | 1.18 V                   | 342                        | 20.54                  | 30.46                          |
| 10  | 2500.00        | 59.78 PK                      | 74.00             | -14.22         | 1.18 V                   | 342                        | 29.31                  | 30.47                          |
| 10  | 2500.00        | 50.34 AV                      | 54.00             | -3.66          | 1.18 V                   | 342                        | 19.87                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 11                 | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3M</b> |                |                               |                   |                |                          |                            |                        |                                |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.   | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1   | 1120.00        | 39.32 PK                      | 74.00             | -34.68         | 1.01 H                   | 20                         | 10.30                  | 29.02                          |
| 1   | 1120.00        | 33.04 AV                      | 54.00             | -20.96         | 1.01 H                   | 20                         | 4.02                   | 29.02                          |
| 2   | 1280.00        | 41.99 PK                      | 74.00             | -32.01         | 1.28 H                   | 329                        | 13.09                  | 28.90                          |
| 2   | 1280.00        | 36.91 AV                      | 54.00             | -17.09         | 1.28 H                   | 329                        | 8.01                   | 28.90                          |
| 3   | 2240.00        | 41.99 PK                      | 74.00             | -32.01         | 1.00 H                   | 327                        | 10.61                  | 31.39                          |
| 3   | 2240.00        | 33.30 AV                      | 54.00             | -20.70         | 1.00 H                   | 327                        | 1.92                   | 31.39                          |
| 4   | 2244.00        | 42.80 PK                      | 74.00             | -31.20         | 1.00 H                   | 327                        | 11.41                  | 31.39                          |
| 4   | 2244.00        | 36.04 AV                      | 54.00             | -17.96         | 1.00 H                   | 327                        | 4.65                   | 31.39                          |
| 5   | 2250.00        | 41.69 PK                      | 74.00             | -32.31         | 1.00 H                   | 327                        | 10.29                  | 31.40                          |
| 5   | 2250.00        | 35.27 AV                      | 54.00             | -18.73         | 1.00 H                   | 327                        | 3.87                   | 31.40                          |
| 6   | 2266.00        | 44.09 PK                      | 74.00             | -29.91         | 1.00 H                   | 327                        | 12.65                  | 31.44                          |
| 6   | 2266.00        | 39.13 AV                      | 54.00             | -14.87         | 1.00 H                   | 327                        | 7.69                   | 31.44                          |
| 7   | 2300.00        | 45.68 PK                      | 74.00             | -28.32         | 1.34 H                   | 329                        | 14.17                  | 31.51                          |
| 7   | 2300.00        | 38.84 AV                      | 54.00             | -15.16         | 1.34 H                   | 329                        | 7.33                   | 31.51                          |
| 8   | 2310.00        | 45.00 PK                      | 74.00             | -29.00         | 1.34 H                   | 329                        | 13.60                  | 31.40                          |
| 8   | 2310.00        | 37.42 AV                      | 54.00             | -16.58         | 1.34 H                   | 329                        | 6.02                   | 31.40                          |
| 9   | *2462.00       | 94.57 PK                      |                   |                | 1.00 H                   | 56                         | 64.12                  | 30.45                          |
| 9   | *2462.00       | 85.72 AV                      |                   |                | 1.00 H                   | 56                         | 55.27                  | 30.45                          |
| 10  | 2500.00        | 49.57 PK                      | 74.00             | -24.43         | 1.00 H                   | 56                         | 19.10                  | 30.47                          |
| 10  | 2500.00        | 40.72 AV                      | 54.00             | -13.28         | 1.00 H                   | 56                         | 10.25                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



|                                 |                            |                          |                          |
|---------------------------------|----------------------------|--------------------------|--------------------------|
| <b>EUT</b>                      | 802.11g Access Point       | <b>Model</b>             | DWL-G700AP               |
| <b>CHANNEL</b>                  | Channel 11                 | <b>FREQUENCY RANGE</b>   | 1~ 25GHz                 |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz              | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 20deg. C, 55%RH,<br>991hPa | <b>TESTED BY</b>         | Steven Lu                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3M</b> |                |                               |                   |                |                          |                            |                        |                                |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No.   | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
| 1   | 1120.00        | 39.30 PK                      | 74.00             | -34.70         | 1.13 V                   | 293                        | 10.28                  | 29.02                          |
| 1   | 1120.00        | 33.50 AV                      | 54.00             | -20.50         | 1.13 V                   | 293                        | 4.48                   | 29.02                          |
| 2   | 1280.00        | 39.72 PK                      | 74.00             | -34.28         | 1.00 V                   | 159                        | 10.82                  | 28.90                          |
| 2   | 1280.00        | 31.99 AV                      | 54.00             | -22.01         | 1.00 V                   | 159                        | 3.09                   | 28.90                          |
| 3   | 2240.00        | 45.64 PK                      | 74.00             | -28.36         | 1.00 V                   | 9                          | 14.26                  | 31.38                          |
| 3   | 2240.00        | 40.55 AV                      | 54.00             | -13.45         | 1.00 V                   | 9                          | 9.17                   | 31.38                          |
| 4   | 2244.00        | 47.31 PK                      | 74.00             | -26.69         | 1.00 V                   | 9                          | 15.92                  | 31.39                          |
| 4   | 2244.00        | 41.02 AV                      | 54.00             | -12.98         | 1.00 V                   | 9                          | 9.63                   | 31.39                          |
| 5   | 2250.00        | 47.01 PK                      | 74.00             | -26.99         | 1.00 V                   | 9                          | 15.61                  | 31.40                          |
| 5   | 2250.00        | 43.21 AV                      | 54.00             | -10.79         | 1.00 V                   | 9                          | 11.81                  | 31.40                          |
| 6   | 2266.00        | 52.21 PK                      | 74.00             | -21.79         | 1.17 V                   | 350                        | 20.77                  | 31.44                          |
| 6   | 2266.00        | 48.97 AV                      | 54.00             | -5.03          | 1.17 V                   | 350                        | 17.53                  | 31.44                          |
| 7   | 2300.00        | 52.51 PK                      | 74.00             | -21.49         | 1.26 V                   | 327                        | 21.00                  | 31.51                          |
| 7   | 2300.00        | 46.79 AV                      | 54.00             | -7.21          | 1.26 V                   | 327                        | 15.28                  | 31.51                          |
| 8   | 2310.00        | 51.31 PK                      | 74.00             | -22.69         | 1.28 V                   | 328                        | 19.91                  | 31.40                          |
| 8   | 2310.00        | 46.49 AV                      | 54.00             | -7.51          | 1.28 V                   | 328                        | 15.09                  | 31.40                          |
| 9   | *2462.00       | 106.21 PK                     |                   |                | 1.14 V                   | 23                         | 75.76                  | 30.45                          |
| 9   | *2462.00       | 96.91 AV                      |                   |                | 1.14 V                   | 23                         | 66.46                  | 30.45                          |
| 10  | 2500.00        | 61.21 PK                      | 74.00             | -12.79         | 1.14 V                   | 23                         | 30.74                  | 30.47                          |
| 10  | 2500.00        | 51.91 AV                      | 54.00             | -2.09          | 1.14 V                   | 23                         | 21.44                  | 30.47                          |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

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



### 4.3 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 |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSEK30    | 100049     | Aug. 12, 2004    |

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



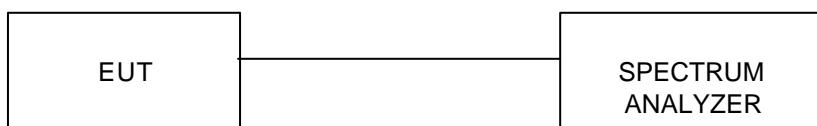
#### 4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.3.5 TEST SETUP



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

#### 4.3.6 EUT OPERATING CONDITIONS

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

FCC ID: KA2DWLG700APA1



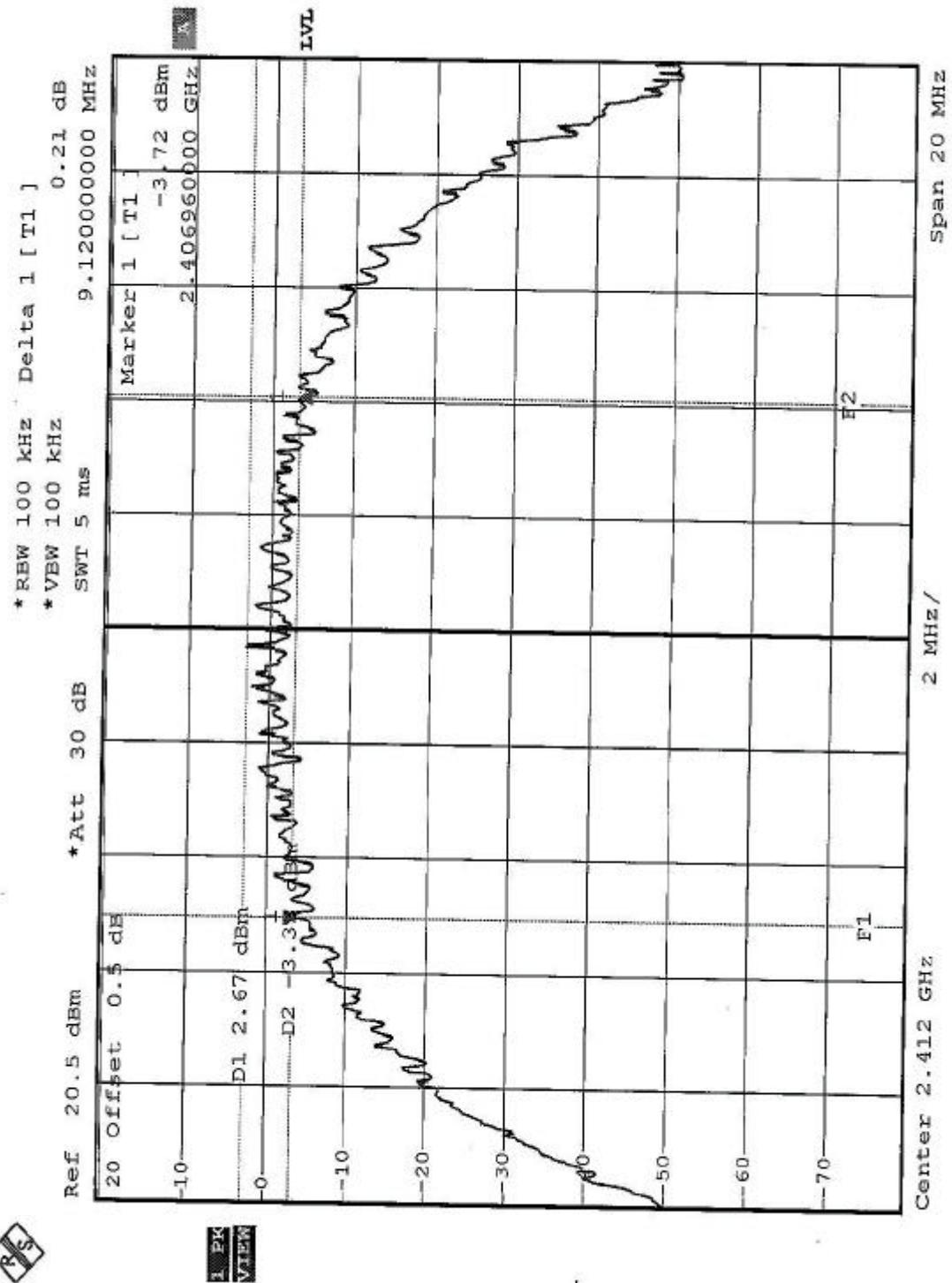
#### 4.3.7 TEST RESULTS

|                          |                         |           |            |
|--------------------------|-------------------------|-----------|------------|
| EUT                      | 802.11g Access Point    | MODEL     | DWL-G700AP |
| INPUT POWER (SYSTEM)     | 120Vac, 60 Hz           | TEST MODE | CCK        |
| ENVIRONMENTAL CONDITIONS | 24deg. C, 63%RH, 991hPa | TESTED BY | Steven Lu  |

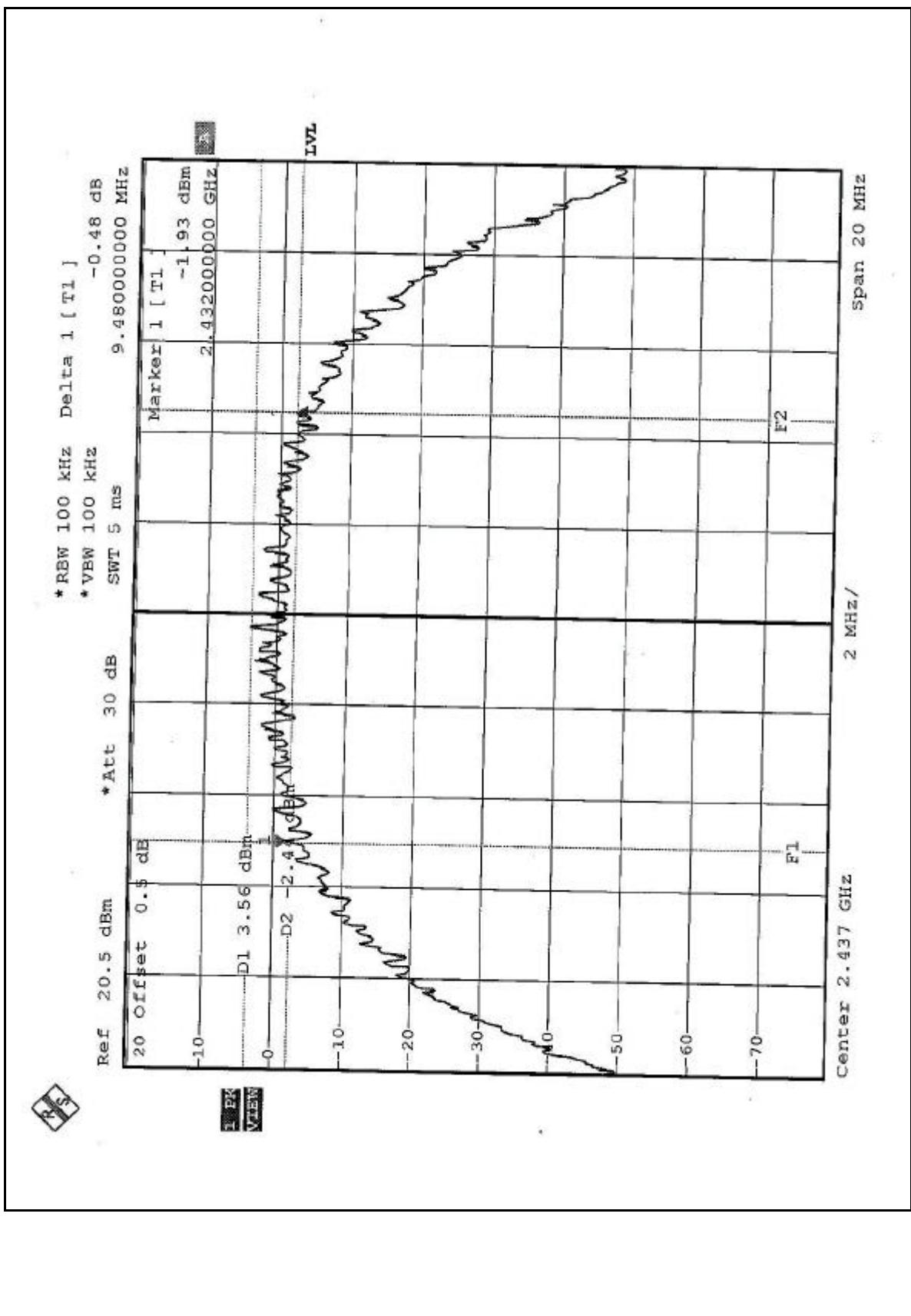
| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS/FAIL |
|---------|-------------------------|---------------------|---------------------|-----------|
| 1       | 2412                    | 9.12                | 0.5                 | PASS      |
| 6       | 2437                    | 9.48                | 0.5                 | PASS      |
| 11      | 2462                    | 9.52                | 0.5                 | PASS      |

*\*(The test data is in accordance with ADT Report No.: RF930209R02.)*

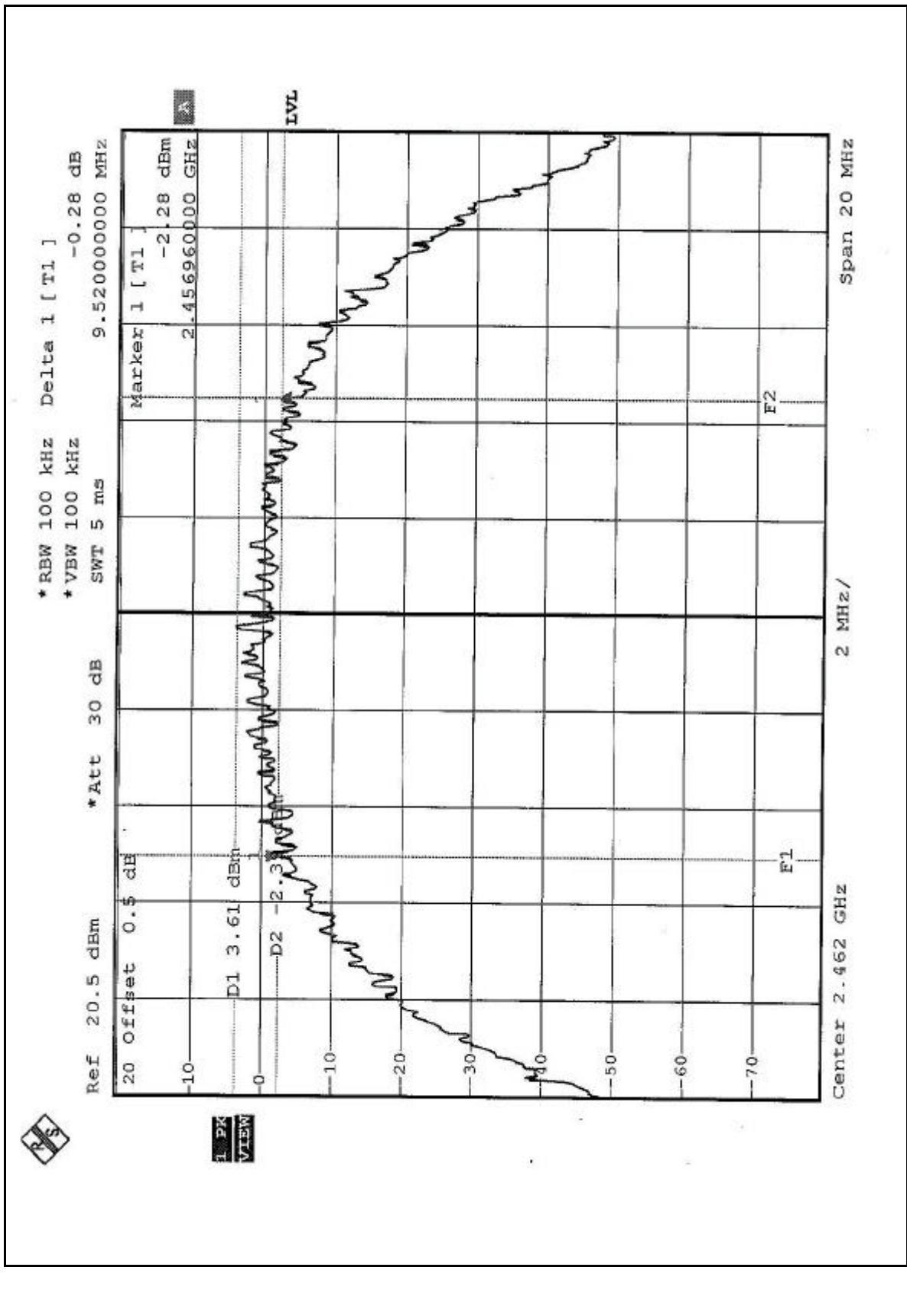
CH1



CH6



CH11



FCC ID: KA2DWLG700APA1

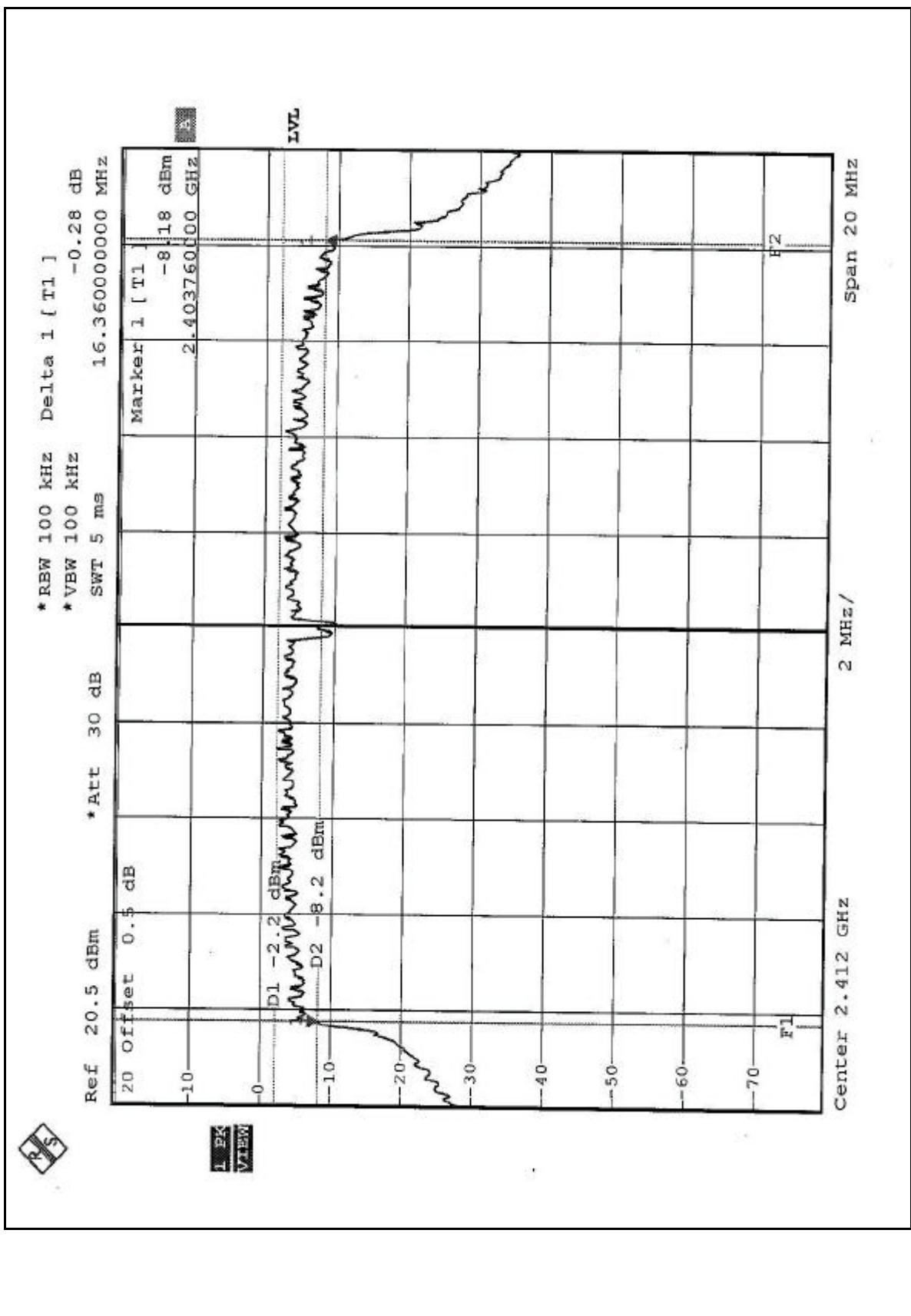


|                                     |                            |                  |            |
|-------------------------------------|----------------------------|------------------|------------|
| <b>EUT</b>                          | 802.11g Access Point       | <b>MODEL</b>     | DWL-G700AP |
| <b>INPUT POWER<br/>(SYSTEM)</b>     | 120Vac, 60 Hz              | <b>TEST MODE</b> | OFDM       |
| <b>ENVIRONMENTAL<br/>CONDITIONS</b> | 24deg. C, 63%RH,<br>991hPa | <b>TESTED BY</b> | Steven Lu  |

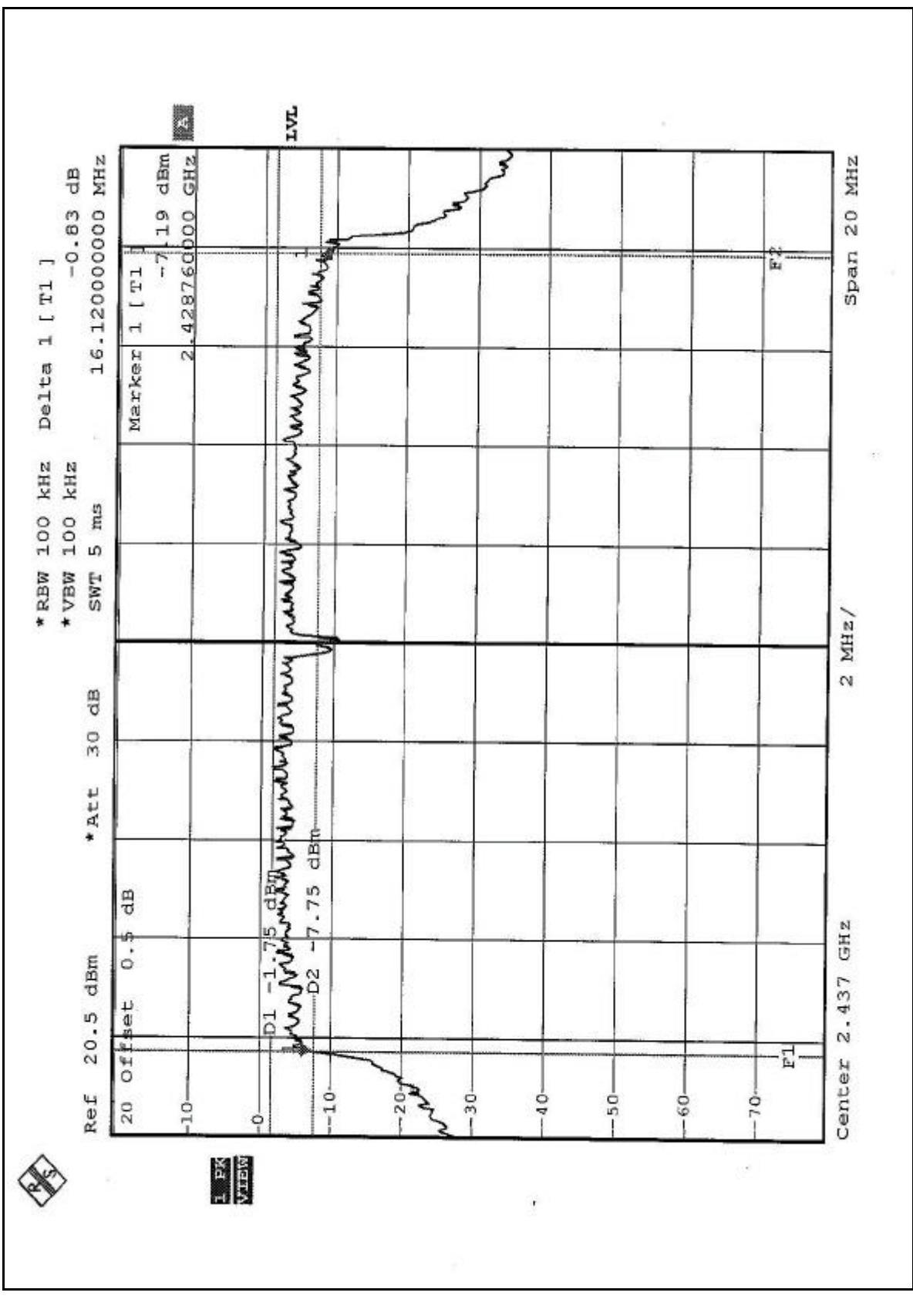
| <b>CHANNEL</b> | <b>CHANNEL<br/>FREQUENCY<br/>(MHz)</b> | <b>6dB BANDWIDTH<br/>(MHz)</b> | <b>MINIMUM<br/>LIMIT<br/>(MHz)</b> | <b>PASS/FAIL</b> |
|----------------|--|--------------------------------|------------------------------------|------------------|
| 1              | 2412                                   | 16.36                          | 0.5                                | PASS             |
| 6              | 2437                                   | 16.12                          | 0.5                                | PASS             |
| 11             | 2462                                   | 16.08                          | 0.5                                | PASS             |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

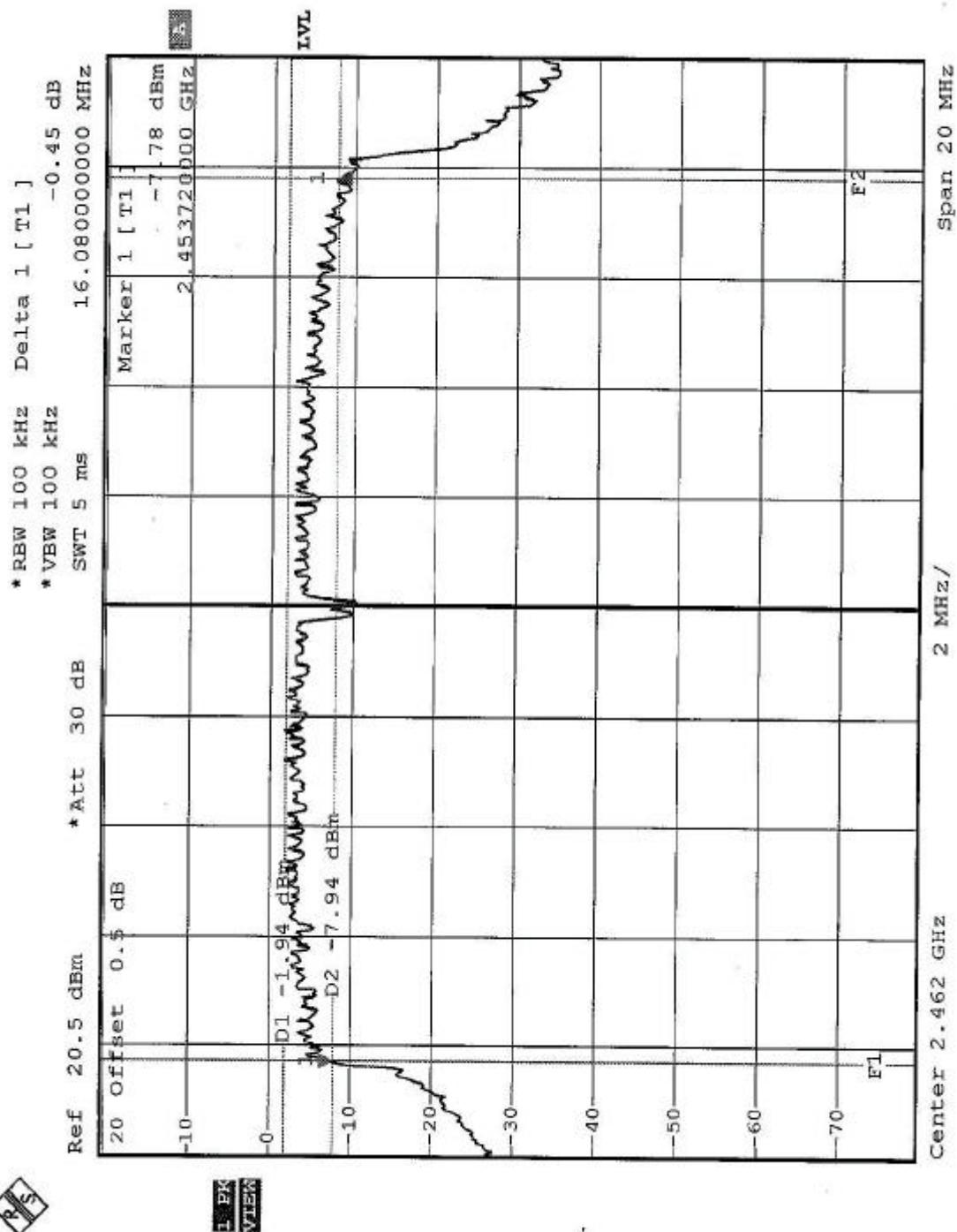
CH1



CH6



CH11





#### 4.4 MAXIMUM PEAK OUTPUT POWER

##### 4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

##### 4.4.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER      | FSEK30    | 100049     | Aug. 12, 2004    |
| R&S SIGNAL GENERATOR       | SMP04     | 100011     | May 28, 2004     |
| TEKTRONIX OSCILLOSCOPE     | TDS 1012  | C30657     | Mar. 19, 2004    |
| NARDA DETECTOR             | 4503A     | FSCM99899  | NA               |

**NOTE:**

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

#### 4.4.3 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

#### 4.4.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.4.5 TEST SETUP



#### 4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6.

FCC ID: KA2DWLG700APA1



#### 4.4.7 TEST RESULTS

|                                 |                         |                  |            |
|---------------------------------|-------------------------|------------------|------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>MODEL</b>     | DWL-G700AP |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>TEST MODE</b> | CCK        |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24deg. C, 63%RH, 991hPa | <b>TESTED BY</b> | Steven Lu  |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|------------------------|-------------------------|------------------------|-----------|
| 1       | 2412                    | 41.976                 | 16.23                   | 30                     | PASS      |
| 6       | 2437                    | 47.206                 | 16.74                   | 30                     | PASS      |
| 11      | 2462                    | 42.462                 | 16.28                   | 30                     | PASS      |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)

|                                 |                         |                  |            |
|---------------------------------|-------------------------|------------------|------------|
| <b>EUT</b>                      | 802.11g Access Point    | <b>MODEL</b>     | DWL-G700AP |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz           | <b>TEST MODE</b> | OFDM       |
| <b>ENVIRONMENTAL CONDITIONS</b> | 24deg. C, 63%RH, 991hPa | <b>TESTED BY</b> | Steven Lu  |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|------------------------|-------------------------|------------------------|-----------|
| 1       | 2412                    | 36.058                 | 15.57                   | 30                     | PASS      |
| 6       | 2437                    | 36.644                 | 15.64                   | 30                     | PASS      |
| 11      | 2462                    | 34.594                 | 15.39                   | 30                     | PASS      |

\*(The test data is in accordance with ADT Report No.: RF930209R02.)