



# FCC TEST REPORT

According to

## FCC CFR Title 47 Part 15 Subpart C

|              |   |
|--------------|---|
| Applicant    | : ZyXEL Communications Corporation  |
| Address      | : No. 6, Innovation Rd. II<br>Science Based Industrial Park   |
| Manufacturer | : ZyXEL Communications ( Wuxi ) Corp.   |
| Address      | : Wuxi New District Minshan road 60#-E Jiangsu<br>PRC   |
| Equipment    | : Dual WAN ADSL2+ VoIP IAD  |
| Model No.    | : P-2602HW-F1, P-2612HW-F3, P-2612HWU-F1,<br>P-2612HWU-F3, P-2602H-F1, P-2602H-F3,<br>P-2612H-F1, P-2612H-F3, P-2612HU-F1,<br>P-2612HU-F3, P-2602HU-F1, P-2602HU-F3,<br>P-2612HW series, 401964 |
| FCC ID       | : I88P2612HWUFX   |

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- The test report must not be used by the clients to claim product certification approval by **NVLAP** or any agency of the Government.



## Table of Contents

|   |           |
|---|-----------|
| <b>1. Report of Measurements and Examinations.....</b>    | <b>6</b>  |
| <b>2. Test Configuration of Equipment under Test.....</b> | <b>7</b>  |
| 2.1. Feature of Equipment under Test .....                | 7         |
| 2.2. Carrier Frequency of Channels .....                  | 8         |
| 2.3. Carrier Frequency of Channels .....                  | 8         |
| 2.4. Test Manner.....                                     | 9         |
| 2.5. Description of Test System .....                     | 9         |
| 2.6. Connection Diagram of Test System .....              | 10        |
| 2.7. General Information of Test .....                    | 11        |
| 2.8. Measurement Uncertainty .....                        | 12        |
| <b>3. Test of Conducted Emission .....</b>                | <b>13</b> |
| 3.1. Test Limit.....                                      | 13        |
| 3.2. Test Procedures.....                                 | 13        |
| 3.3. Typical Test Setup.....                              | 14        |
| 3.4. Measurement Equipment .....                          | 14        |
| 3.5. Test Result and Data .....                           | 15        |
| <b>4. Test of Radiated Emission .....</b>                 | <b>19</b> |
| 4.1. Test Limit.....                                      | 19        |
| 4.2. Test Procedures.....                                 | 19        |
| 4.3. Typical Test Setup.....                              | 20        |
| 4.4. Measurement Equipment .....                          | 21        |
| 4.5. Test Result and Data .....                           | 22        |
| <b>5. Occupied Bandwidth .....</b>                        | <b>58</b> |
| 5.1. Test Limit.....                                      | 58        |
| 5.2. Test Procedures.....                                 | 58        |
| 5.3. Test Setup Layout.....                               | 58        |
| 5.4. Measurement Equipment .....                          | 58        |
| 5.5. Test Result and Data .....                           | 59        |
| <b>6. Maximum Peak Output Power .....</b>                 | <b>63</b> |
| 6.1. Test Limit.....                                      | 63        |
| 6.2. Test Procedure .....                                 | 63        |
| 6.3. Test Setup Layout.....                               | 64        |
| 6.4. Measurement Equipment .....                          | 64        |
| 6.5. Test Result and Data .....                           | 65        |
| <b>7. Band Edges .....</b>                                | <b>69</b> |
| 7.1. Test Limit.....                                      | 69        |
| 7.2. Test Procedure .....                                 | 69        |
| 7.3. Test Setup Layout.....                               | 70        |
| 7.4. Measurement Equipment .....                          | 70        |
| 7.5. Test Result and Data .....                           | 71        |
| <b>8. Power Spectral Density.....</b>                     | <b>81</b> |



|                                  |    |
|----------------------------------|----|
| 8.1. Test Limit.....             | 81 |
| 8.2. Test Procedure .....        | 81 |
| 8.3. Test Setup Layout.....      | 81 |
| 8.4. Measurement Equipment ..... | 81 |
| 8.5. Test Result and Data .....  | 82 |





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Address : No. 6, Innovation Rd. II  
Science Based Industrial Park

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Manufacturer : ZyXEL Communications ( Wuxi ) Corp.

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Address : Wuxi New District Minshan road 60#-E Jiangsu PRC

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Equipment : Dual WAN ADSL2+ VoIP IAD

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Model No. : P-2602HW-F1, P-2612HW-F3, P-2612HWU-F1,  
P-2612HWU-F3, P-2602H-F1, P-2602H-F3,  
P-2612H-F1, P-2612H-F3, P-2612HU-F1,  
P-2612HU-F3, P-2602HU-F1, P-2602HU-F3,  
P-2612HW series, 401964

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I **HEREBY CERTIFY THAT** :

The measurements shown in this test report were made in accordance with the procedures given in **ANSI C63.4 – 2003** and the energy emitted by this equipment was **passed CISPR PUB. 22 and FCC Part 15** in both radiated and conducted emission class B limits. Testing was carried out on Jul. 03, 2009 at **Cerpass Technology Corp.**

Documented By:

Cathy Chen/ Administration

Approved By:

John Wang/ Technical director




### 1. Report of Measurements and Examinations

| FCC CFR Title 47 Part 15 Subpart C: 2007 |                           |                |        |
|--|---------------------------|----------------|--------|
| ANSI C63.4: 2003                         |                           |                |        |
| Clause                                   | Test Parameter            | Test Performed | Remark |
| 15.207                                   | Conducted Emission        | YES            | PASS   |
| 15.209                                   | Radiated Emission         | YES            | PASS   |
| 15.247(a)<br>15.215(c)                   | Occupied Bandwidth        | YES            | PASS   |
| 15.247(b)                                | Maximum Peak Output Power | YES            | PASS   |
| 15.247(d)                                | Band Edges                | YES            | PASS   |
| 15.247(d)                                | Power Spectral Density    | YES            | PASS   |



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment under Test

|                             |  |   |
|-----------------------------|--|---|
| Dual WAN ADSL2+<br>VoIP IAD | Model No:  | P-2602HW-F1, P-2612HW-F3, P-2612HWU-F1,<br>P-2612HWU-F3, P-2602H-F1, P-2602H-F3,<br>P-2612H-F1, P-2612H-F3, P-2612HU-F1,<br>P-2612HU-F3, P-2602HU-F1, P-2602HU-F3,<br>P-2612HW series, 401964 |
| Remark                      | They are identical except the model name. This is only to satisfy the different requirements of the client. <b>P-2612HWU-F1</b> was selected as the test model and its data have been recorded in this report. |   |
| POWER ADAPTOR               | Manufacturer:  | OEM   |
|                             | Model:   | ADS18B-W 180100   |
|                             | Input:   | 100-240V~50/60Hz 0.5A   |
|                             | Output:  | DC18V  1.0A  |
| Power Supply Cable          | Non-Shielded, 1.8m   |   |

| Component/ Keypart list |   |
|-------------------------|---|
| Frequency Range         | 2.4 ~ 2.4835GHz   |
| Modulation Type         | 802.11b: DSSS<br>802.11g: OFDM  |
| Number of Channels      | 802.11b/g (20MHz): 11   |
| Data Rate               | 802.11b: 11, 5.5, 2, 1 Mbps<br>802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps |
| Antenna Type            | Dipole  |
| Antenna Gain            | 2.2 dBi   |



**2.2. Carrier Frequency of Channels**

802.11b / 802.11g

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 01      | 2412           | 08      | 2447           |
| 02      | 2417           | 09      | 2452           |
| 03      | 2422           | 10      | 2457           |
| 04      | 2427           | 11      | 2462           |
| 05      | 2432           | ---     | ---            |
| 06      | 2437           | ---     | ---            |
| 07      | 2442           | ---     | ---            |

**2.3. Carrier Frequency of Channels**

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst –case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table marked "\*" test modes are shown in this report.

| 802.11b/ Transmit by 2412MHz |                  |                           | 802.11g/ Transmit by 2412MHz |                  |                           |
|------------------------------|------------------|---------------------------|------------------------------|------------------|---------------------------|
|                              | Date Rate (Mbps) | Maximum Peak Output Power |                              | Date Rate (Mbps) | Maximum Peak Output Power |
| *                            | 11               | 20.81                     |                              | 54               | 22.19                     |
|                              | 5.5              | 19.19                     |                              | 48               | 22.24                     |
|                              | 2                | 17.59                     | *                            | 36               | 23.96                     |
|                              | 1                | 17.41                     |                              | 24               | 23.84                     |
|                              | --               | --                        |                              | 18               | 23.46                     |
|                              | --               | --                        |                              | 12               | 23.68                     |
|                              | --               | --                        |                              | 9                | 23.15                     |
|                              | --               | --                        |                              | 6                | 23.22                     |





## 2.4. Test Manner

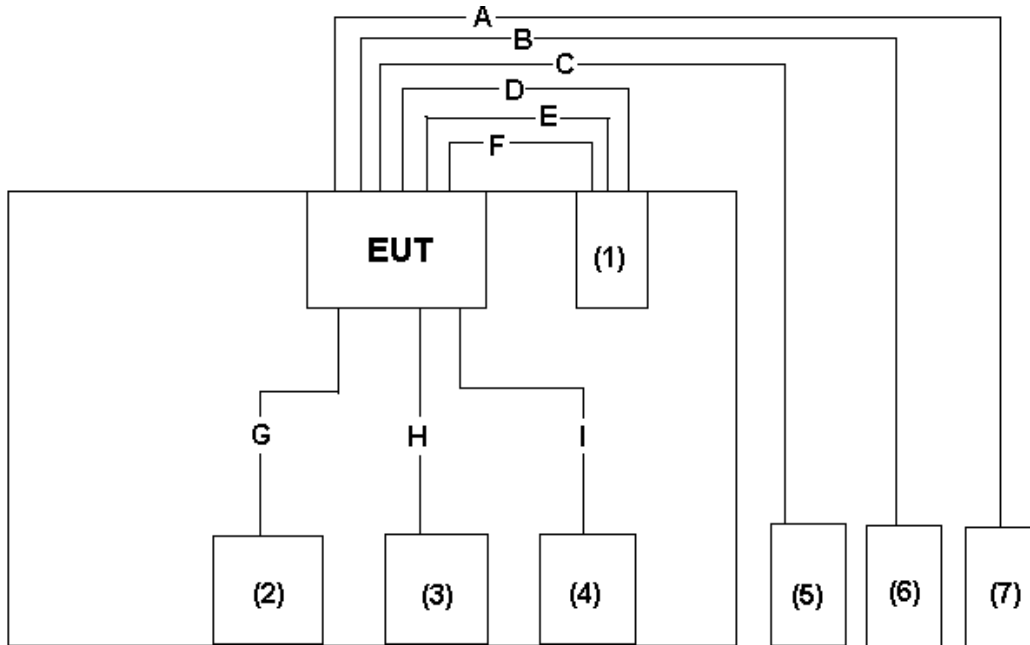
| Test Manner                 |   |
|-----------------------------|---|
| a                           | During testing, the interface cables and equipment positions were varied according to 47 CFR, Part 2, Part 15 and CISPR PUB. 22 |
| b                           | The complete test system included Switch, Telephone, HDD, Terminal, Notebook, PC and EUT.                                       |
| c                           | Connect the Switch, Telephone, HDD, Terminal, Notebook, PC and EUT.   |
| d                           | Run the W-LAN software to control the wireless off and on.  |
| e                           | Adjust the EUT and then test.   |
| The test modes: Full System |   |
|                             | Test Mode 1: Transmit by 802.11b 2412MHz  |
|                             | Test Mode 2: Transmit by 802.11b 2437MHz  |
|                             | Test Mode 3: Transmit by 802.11b 2462MHz  |
|                             | Test Mode 4: Transmit by 802.11g 2412MHz  |
|                             | Test Mode 5: Transmit by 802.11g 2437MHz  |
|                             | Test Mode 6: Transmit by 802.11g 2462MHz  |

## 2.5. Description of Test System

| No. | Device    | Manufacturer | Model No.      | Description      |
|-----|-----------|--------------|----------------|------------------|
| 1   | Switch    | Belkin       | F5D5141-24     | N/A              |
| 2   | Telephone | TONNET       | TA-8012A       | N/A              |
| 3   | HDD       | Apple        | 1G             | Power by adaptor |
| 4   | Telephone | TONNET       | TA-8012A       | N/A              |
| 5   | Terminal  | ZyXEL        | VES-1624FT-55A | N/A              |
| 6   | Notebook  | ASUS         | W6A            | Power by adaptor |
| 7   | PC        | Dell         | DCSM           | N/A              |



### 2.6. Connection Diagram of Test System



#### Use Cable

| No. | Cable           | Quantity | Description         |
|-----|-----------------|----------|---------------------|
| A   | LAN Cable       | 1        | Non-shielding, >3m  |
| B   | LAN Cable       | 1        | Non-shielding, >3m  |
| C   | Telephone Cable | 1        | Non-shielding, >3m  |
| D   | LAN Cable       | 1        | Non-shielding, 1.5m |
| E   | LAN Cable       | 1        | Non-shielding, 1.5m |
| F   | LAN Cable       | 1        | Non-shielding, 1.5m |
| G   | Telephone Cable | 1        | Non-shielding, 1.5m |
| H   | USB Cable       | 1        | Shielding, 1.2m     |
| I   | Telephone Cable | 1        | Non-shielding, 1.5m |



2.7. General Information of Test

|                            |  |                  |
|----------------------------|--|------------------|
| Test Site :                | Cerpass Technology Corp.   |                  |
| Performed Location         | No.66, Tangzhuang Road, Suzhou Industrial Park, Jiangsu, China   |                  |
| NVLAP LAB Code :           | 200814-0   |                  |
| FCC Registration Number :  | 632249 (Taipei)  | 916572 (SuZhou)  |
| IC Registration Number :   | 6597A-1 (Taipei)   | 7290A-1 (SuZhou) |
| VCCI Registration Number : | T-338 for Telecommunication Test (Taipei)<br>C-2188 for Conducted emission test (Taipei)<br>R-1902 for Radiated emission test (Taipei) |                  |
|                            | T-343 for Telecommunication Test (Suzhou)<br>C-2919 for Conducted emission test (Suzhou)<br>R-2670 for Radiated emission test (Suzhou) |                  |

Laboratory accreditation





**2.8. Measurement Uncertainty**

| Measurement Item          | Measurement Frequency | Polarization | Uncertainty |
|---------------------------|-----------------------|--------------|-------------|
| Conducted Emission        | 9 kHz ~ 30 MHz        | LINE/NEUTRAL | ±2.71 dB    |
| Radiated Emission         | 30 MHz ~ 25GHz        | Vertical     | ±4.11 dB    |
|                           |                       | Horizontal   | ±4.10 dB    |
| Occupied Bandwidth        | ---                   | ---          | ±7500 Hz    |
| Maximum Peak Output Power | ---                   | ---          | ±1.4 dB     |
| Band Edges                | ---                   | ---          | ±2.2 dB     |
| Power Spectral Density    | ---                   | ---          | ±2.2 dB     |



### 3. Test of Conducted Emission

#### 3.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2003 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

| Frequency (MHz) | Quasi Peak (dB $\mu$ V) | Average (dB $\mu$ V) |
|-----------------|-------------------------|----------------------|
| 0.15 – 0.5      | 66-56*                  | 56-46*               |
| 0.5 – 5.0       | 56                      | 46                   |
| 5.0 – 30.0      | 60                      | 50                   |

\*Decreases with the logarithm of the frequency.

#### 3.2. Test Procedures

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

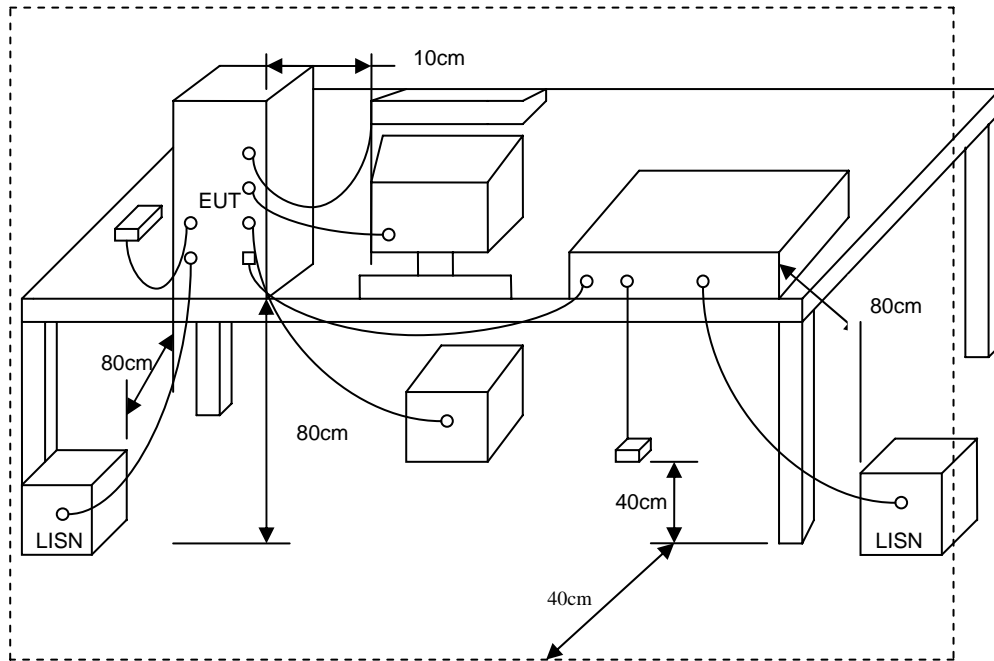
Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.



### 3.3. Typical Test Setup



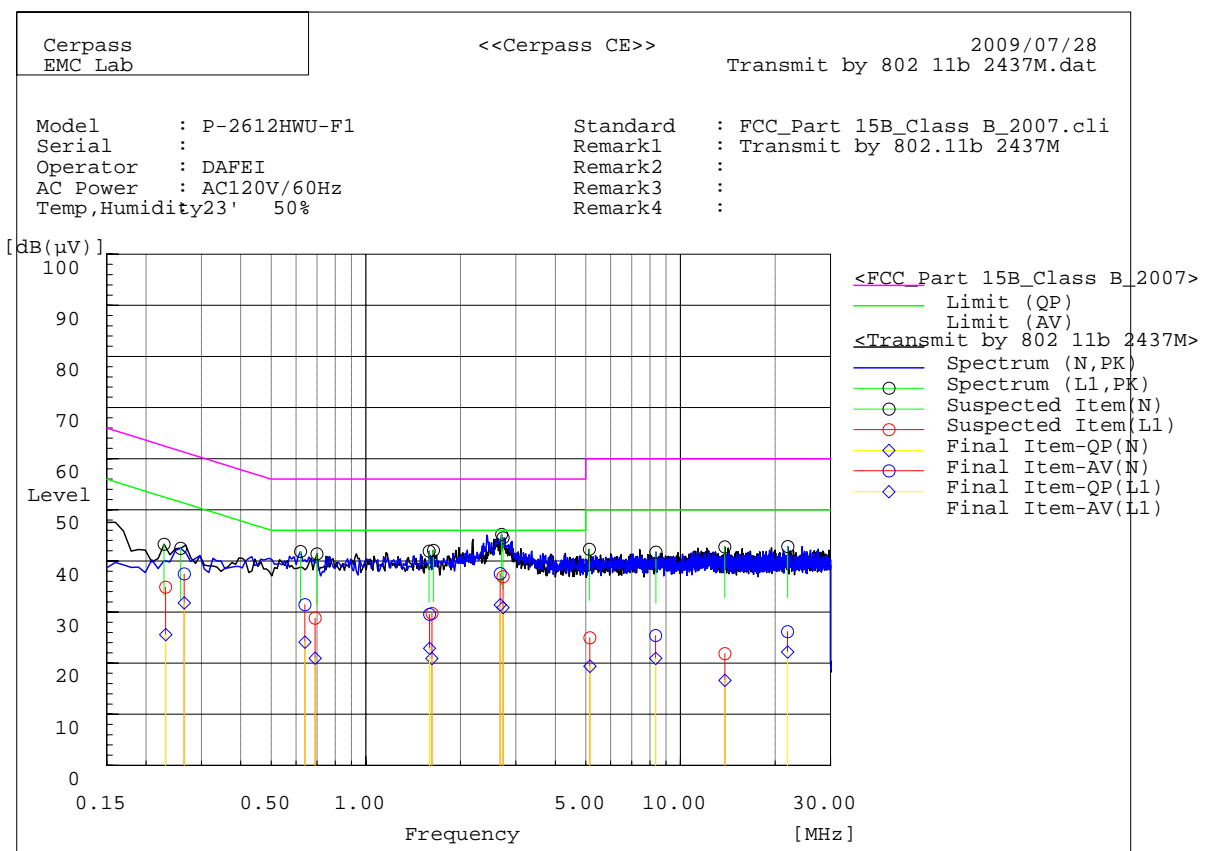
### 3.4. Measurement Equipment

| Instrument                  | Manufacturer | Model No.       | Serial No. | Calibration Data |
|-----------------------------|--------------|-----------------|------------|------------------|
| EMC Emission Tester         | EMCPARTNER   | Harmonics-1000  | 159        | 2009.06.23       |
| Test Receiver               | R&S          | ESCI            | 100565     | 2009.06.30       |
| AMN                         | R&S          | ESH2-Z5         | 100182     | 2009.06.23       |
| Two-Line V-Network          | R&S          | ENV216          | 100325     | 2009.06.23       |
| ISN                         | FCC          | FCC-TLISN-T2-02 | 20379      | 2009.06.23       |
| ISN                         | FCC          | FCC-TLISN-T4-02 | 20380      | 2009.06.23       |
| ISN                         | FCC          | FCC-TLISN-T8-02 | 20381      | 2009.06.23       |
| Current Probe               | R&S          | EZ-17           | 100303     | 2009.06.23       |
| Passive Voltage Probe       | R&S          | ESH2-Z3         | 100026     | 2009.06.23       |
| Decoupling Clamp            | LUTHI        | FTC 40 X 15 E   | 5685       | 2008.11.01       |
| Absorbing Clamp             | Schwarzbeck  | MDS21           | 3753       | 2008.11.01       |
| Power Divider               | Agilent      | 11636A          | 09523      | 2008.06.30       |
| Minimum Loss Pad            | Agilent      | 11852B          | 61650      | 2009.06.23       |
| Attenuator                  | R&S          | ESH3-Z2         | 100529     | 2009.01.12       |
| Temperature/ Humidity Meter | Zhicheng     | ZC1-11          | CEP-TH-004 | 2008.09.24       |



### 3.5. Test Result and Data

|                  |              |            |                      |
|------------------|--------------|------------|----------------------|
| Test Mode :      | Mode 2       | Standard : | FCC_Part 15B_Class B |
| AC Power :       | AC 120V/60Hz | Phase :    | Line                 |
| Temp :           | 20'          | Humidity : | 50%                  |
| Pressure(mbar) : | 1002         | Date :     | 2009/07/28           |





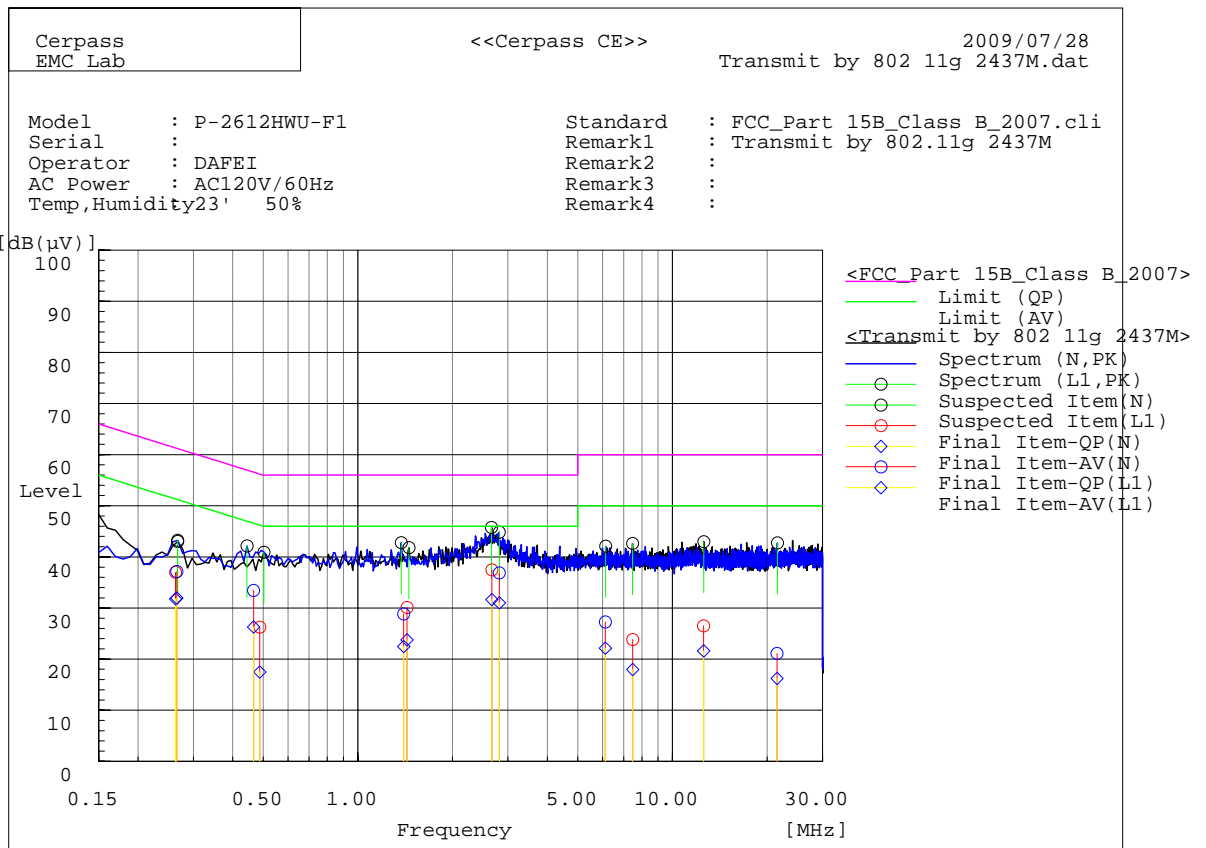
**Final Data List**

| Frequency<br>MHz | Line<br>Phase | Reading<br>dB(uV)<br>QP | Reading<br>dB(uV)<br>AV | Factor<br>dB | Level<br>dB(uV)<br>QP | Level<br>dB(uV)<br>AV | Limit<br>dB(uV)<br>QP | Limit<br>dB(uV)<br>AV | Margin<br>dB<br>QP | Margin<br>dB<br>AV | Pass/Fail |
|------------------|---------------|-------------------------|-------------------------|--------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------------|-----------|
| 0.26465          | L1            | 17.9                    | 12.3                    | 19.5         | 37.4                  | 31.8                  | 61.3                  | 51.3                  | 23.9               | 19.5               | Pass      |
| 2.67433          | L1            | 17.9                    | 11.8                    | 19.6         | 37.5                  | 31.4                  | 56.0                  | 46.0                  | 18.5               | 14.6               | Pass      |
| 21.9096          | L1            | 5.7                     | 1.7                     | 20.5         | 26.2                  | 22.2                  | 60.0                  | 50.0                  | 33.8               | 27.8               | Pass      |
| 8.3435           | L1            | 5.4                     | 1.0                     | 20.0         | 25.4                  | 21.0                  | 60.0                  | 50.0                  | 34.6               | 29.0               | Pass      |
| 0.64034          | L1            | 11.9                    | 4.5                     | 19.6         | 31.5                  | 24.1                  | 56.0                  | 46.0                  | 24.5               | 21.9               | Pass      |
| 1.59462          | L1            | 10.0                    | 3.3                     | 19.6         | 29.6                  | 22.9                  | 56.0                  | 46.0                  | 26.4               | 23.1               | Pass      |
| 0.23119          | N             | 15.1                    | 5.8                     | 19.8         | 34.9                  | 25.6                  | 62.4                  | 52.4                  | 27.5               | 26.8               | Pass      |
| 2.72651          | N             | 17.3                    | 11.3                    | 19.6         | 36.9                  | 30.9                  | 56.0                  | 46.0                  | 19.1               | 15.1               | Pass      |
| 13.837           | N             | 1.7                     | -3.5                    | 20.2         | 21.9                  | 16.7                  | 60.0                  | 50.0                  | 38.1               | 33.3               | Pass      |
| 5.1514           | N             | 5.2                     | -0.4                    | 19.8         | 25.0                  | 19.4                  | 60.0                  | 50.0                  | 35.0               | 30.6               | Pass      |
| 1.62188          | N             | 10.2                    | 1.3                     | 19.6         | 29.8                  | 20.9                  | 56.0                  | 46.0                  | 26.2               | 25.1               | Pass      |
| 0.68961          | N             | 9.2                     | 1.4                     | 19.6         | 28.8                  | 21.0                  | 56.0                  | 46.0                  | 27.2               | 25.0               | Pass      |





|                  |              |            |                      |
|------------------|--------------|------------|----------------------|
| Test Mode :      | Mode 5       | Standard : | FCC_Part 15B_Class B |
| AC Power :       | AC 120V/60Hz | Phase :    | Line                 |
| Temp :           | 20'          | Humidity : | 50%                  |
| Pressure(mbar) : | 1002         | Date :     | 2009/07/28           |





**Final Data List**

| Frequency<br>MHz | Line<br>Phase | Reading<br>dB(uV)<br>QP | Reading<br>dB(uV)<br>AV | Factor<br>dB | Level<br>dB(uV)<br>QP | Level<br>dB(uV)<br>AV | Limit<br>dB(uV)<br>QP | Limit<br>dB(uV)<br>AV | Margin<br>dB<br>QP | Margin<br>dB<br>AV | Pass/Fail |
|------------------|---------------|-------------------------|-------------------------|--------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------------|-----------|
| 0.26562          | L1            | 17.6                    | 12.4                    | 19.5         | 37.1                  | 31.9                  | 61.3                  | 51.3                  | 24.2               | 19.4               | Pass      |
| 2.81575          | L1            | 17.3                    | 11.4                    | 19.6         | 36.9                  | 31.0                  | 56.0                  | 46.0                  | 19.1               | 15.0               | Pass      |
| 1.39849          | L1            | 9.2                     | 2.9                     | 19.6         | 28.8                  | 22.5                  | 56.0                  | 46.0                  | 27.2               | 23.5               | Pass      |
| 0.46603          | L1            | 13.7                    | 6.6                     | 19.7         | 33.4                  | 26.3                  | 56.6                  | 46.6                  | 23.2               | 20.3               | Pass      |
| 21.5076          | L1            | 0.6                     | -4.3                    | 20.5         | 21.1                  | 16.2                  | 60.0                  | 50.0                  | 38.9               | 33.8               | Pass      |
| 6.1236           | L1            | 7.4                     | 2.3                     | 19.9         | 27.3                  | 22.2                  | 60.0                  | 50.0                  | 32.7               | 27.8               | Pass      |
| 0.2632           | N             | 17.2                    | 12.0                    | 19.8         | 37.0                  | 31.8                  | 61.3                  | 51.3                  | 24.3               | 19.5               | Pass      |
| 2.66812          | N             | 17.9                    | 12.1                    | 19.6         | 37.5                  | 31.7                  | 56.0                  | 46.0                  | 18.5               | 14.3               | Pass      |
| 12.5651          | N             | 6.4                     | 1.5                     | 20.1         | 26.5                  | 21.6                  | 60.0                  | 50.0                  | 33.5               | 28.4               | Pass      |
| 7.4713           | N             | 3.9                     | -1.9                    | 19.9         | 23.8                  | 18.0                  | 60.0                  | 50.0                  | 36.2               | 32.0               | Pass      |
| 1.43244          | N             | 10.6                    | 4.3                     | 19.5         | 30.1                  | 23.8                  | 56.0                  | 46.0                  | 25.9               | 22.2               | Pass      |
| 0.48746          | N             | 6.7                     | -2.1                    | 19.6         | 26.3                  | 17.5                  | 56.2                  | 46.2                  | 29.9               | 28.7               | Pass      |



## 4. Test of Radiated Emission

### 4.1. Test Limit

Radiated emissions from 30 MHz to 25 GHz were measured according to the methods defines in ANSI C63.4-2003. The EUT was placed, 0.8 meter above the ground plane, as shown in section 5.6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions for unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency (MHz) | Distance Meters | Radiated ( $\mu$ V / M) | Radiated (dB $\mu$ V/ M) |
|-----------------|-----------------|-------------------------|--------------------------|
| 30-88           | 3               | 100                     | 40.0                     |
| 88-216          | 3               | 150                     | 43.5                     |
| 216-960         | 3               | 200                     | 46.0                     |
| Above 960       | 3               | 500                     | 54.0                     |

For unintentional device, according to CISPR PUB.22, for Class B digital devices, the general requirement of field strength of radiated emissions from intentional radiators at a distance of 10 meters shall not exceed the below table.

| Frequency (MHz) | Distance Meters | Radiated (dB $\mu$ V/ M) |
|-----------------|-----------------|--------------------------|
| 30-230          | 10              | 30                       |
| 230-1000        | 10              | 37                       |

### 4.2. Test Procedures

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video



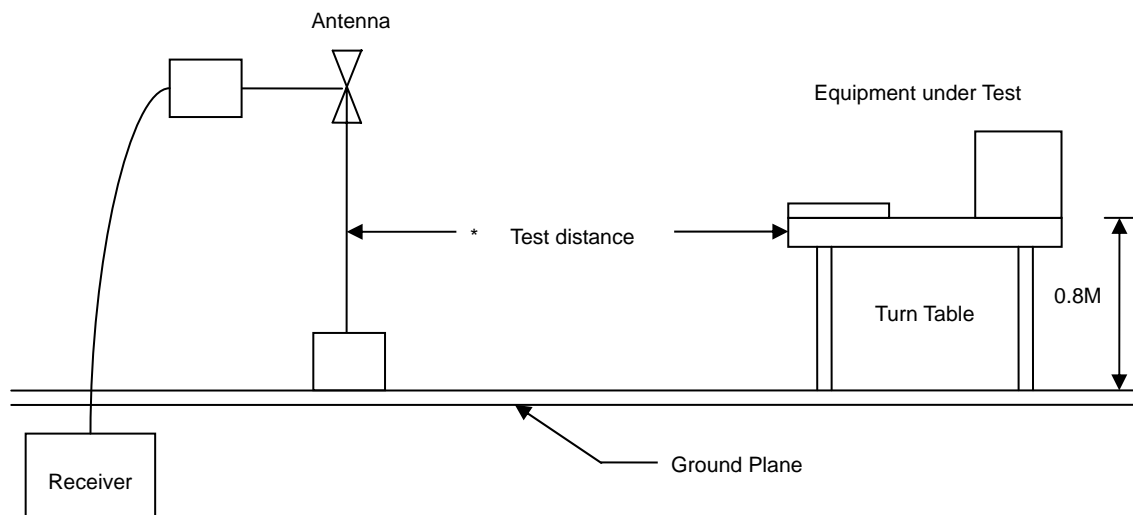
bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are Made with the antenna polarized in both the vertical and the horizontal positions.

When performing radiated measurements >1 GHz, the EUT always remains within the 3dB beam-width of the measuring antenna.

### 4.3. Typical Test Setup





#### 4.4. Measurement Equipment

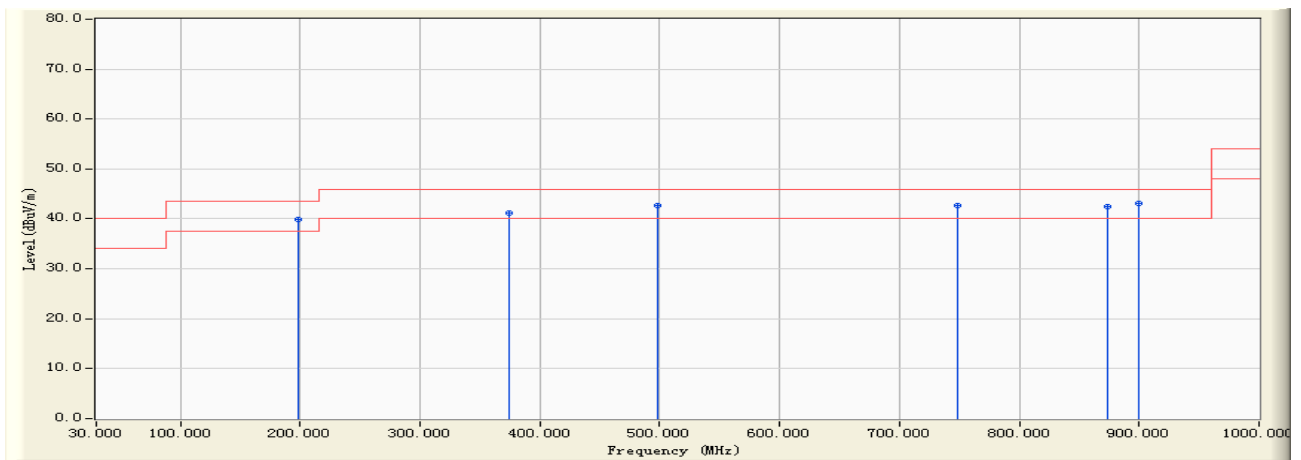
| Instrument                  | Model No.   | Manufacturer | Serial No.    | Calibration Date |
|-----------------------------|-------------|--------------|---------------|------------------|
| EMI Test Receiver           | R&S         | ESCI         | 100564        | 2009.06.23       |
| Preamplifier                | Agilent     | 87405B       | My39500554    | 2008.11.04       |
| Preamplifier                | Agilent     | 8449B        | ED-HE-EMI-077 | 2009.02.18       |
| Ultra Broadband Antenna     | R&S         | HL562        | 100362        | 2008.11.04       |
| Broad-Band Horn Antenna     | Schwarzbeck | BBHA9120D    | 9120D-619     | 2008.09.26       |
| Broad-Band Horn Antenna     | Schwarzbeck | BBHA9170     | 9170-347      | 2008.10.14       |
| Spectrum Analyzer           | R&S         | FSP40        | 100324        | 2008.09.28       |
| Temperature/ Humidity Meter | Zhicheng    | ZC1-11       | CEP-TH-001    | 2008.09.24       |



### 4.5. Test Result and Data

Under 1G:

|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:27                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : HORIZONTAL                        |
| Power : 120V/60Hz          | Note : Mode 1:Transmit by 802.11b 2412MHz |



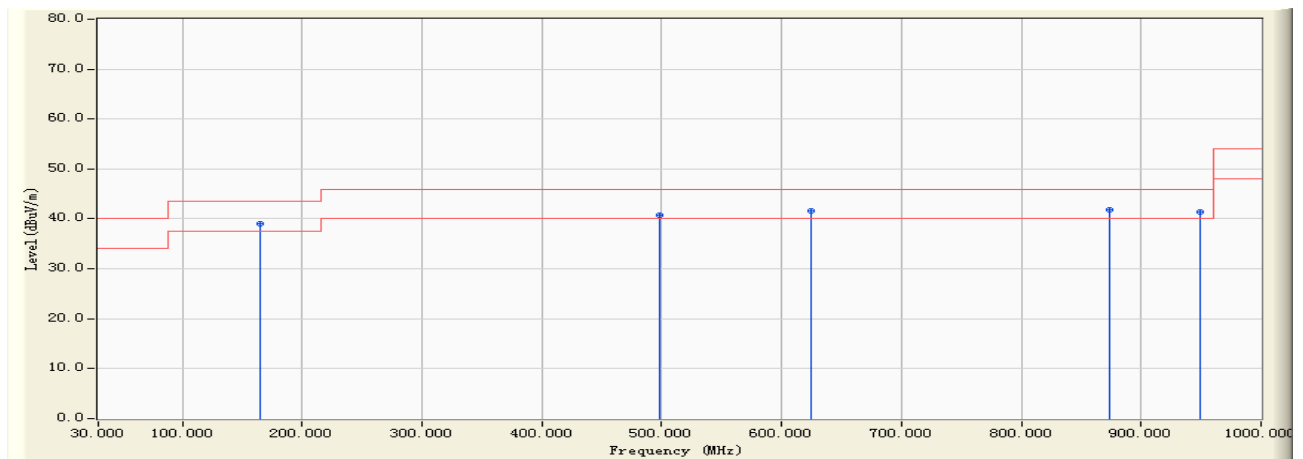
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 198.443         | -15.447             | 55.334               | 39.887                 | -3.613      | 43.500         | QUASIPeAK     | 112.6300     | 211.6 0         |
| 2 | 374.631         | -8.404              | 49.648               | 41.244                 | -4.756      | 46.000         | QUASIPeAK     | 201.500      | 39.200          |
| 3 | 498.543         | -4.863              | 47.443               | 42.579                 | -3.421      | 46.000         | QUASIPeAK     | 156.300      | 332.500         |
| 4 | 748.303         | 0.419               | 42.369               | 42.788                 | -3.212      | 46.000         | QUASIPeAK     | 200.600      | 215.600         |
| 5 | 874.152         | 2.499               | 39.901               | 42.400                 | -3.600      | 46.000         | QUASIPeAK     | 158.130      | 98.2600         |
| 6 | * 899.321       | 3.052               | 40.096               | 43.148                 | -2.852      | 46.000         | QUASIPeAK     | 191.200      | 126.540         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:28                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : VERTICAL                          |
| Power : 120V/60Hz          | Note : Mode 1:Transmit by 802.11b 2412MHz |



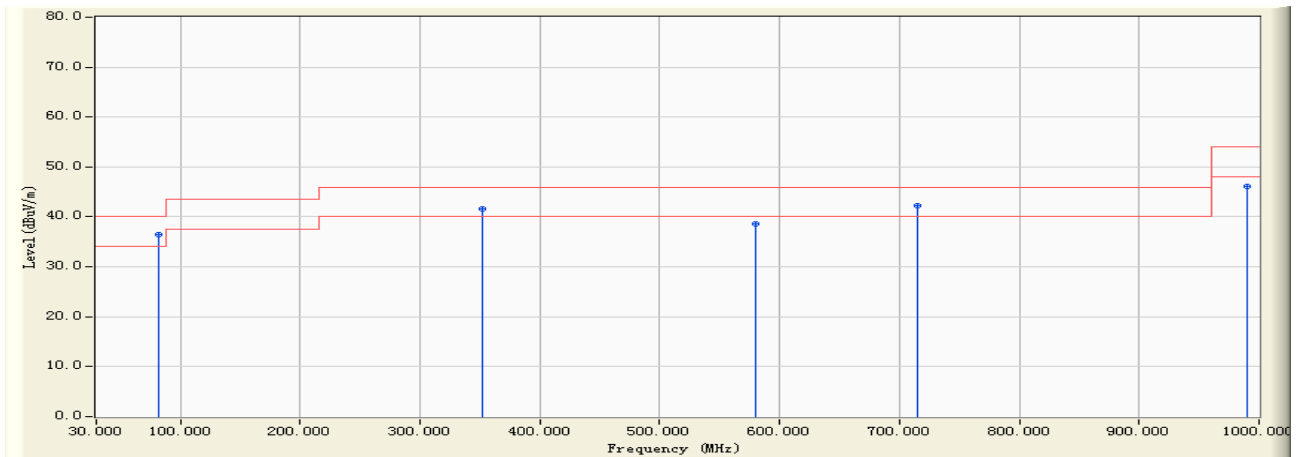
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 165.529         | -15.353             | 54.347               | 38.994                 | -4.506      | 43.500         | QUASIPeAK     | 100.000      | 120.900         |
| 2 | 498.543         | -4.863              | 45.639               | 40.775                 | -5.225      | 46.000         | QUASIPeAK     | 120.630      | 261.200         |
| 3 | 624.391         | -2.102              | 43.625               | 41.523                 | -4.477      | 46.000         | QUASIPeAK     | 105.910      | 301.600         |
| 4 | * 874.152       | 2.499               | 39.397               | 41.896                 | -4.104      | 46.000         | QUASIPeAK     | 132.620      | 121.400         |
| 5 | 949.661         | 3.453               | 37.951               | 41.404                 | -4.596      | 46.000         | QUASIPeAK     | 122.210      | 262.200         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:33                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : HORIZONTAL                        |
| Power : 120V/60Hz          | Note : Mode 2:Transmit by 802.11b 2437MHz |



|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | * | 81.560          | -15.470             | 51.910               | 36.440                 | -3.560      | 40.000         | QUASIPeAK     | 150.500      | 0.000           |
| 2 |   | 351.800         | -9.137              | 50.650               | 41.513                 | -4.487      | 46.000         | QUASIPeAK     | 100.000      | 256.300         |
| 3 |   | 580.460         | -3.077              | 41.590               | 38.512                 | -7.488      | 46.000         | QUASIPeAK     | 138.190      | 210.900         |
| 4 |   | 715.650         | -0.335              | 42.550               | 42.216                 | -3.784      | 46.000         | QUASIPeAK     | 150.000      | 234.100         |
| 5 |   | 990.250         | 4.188               | 41.860               | 46.049                 | -7.951      | 54.000         | QUASIPeAK     | 138.600      | 159.200         |

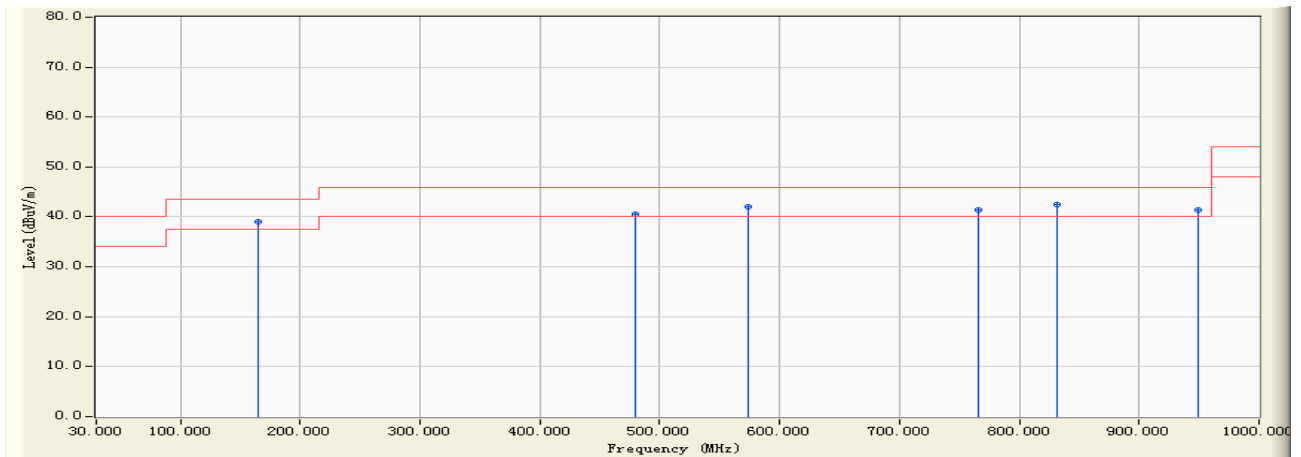
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor





|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:37                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : VERTICAL                          |
| Power : 120V/60Hz          | Note : Mode 2:Transmit by 802.11b 2437MHz |



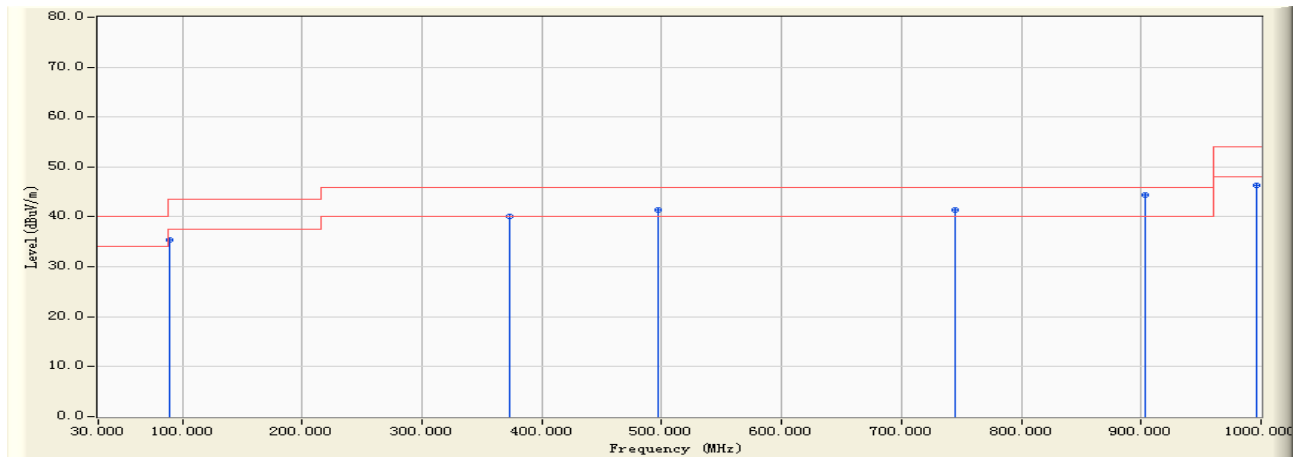
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 165.529         | -15.353             | 54.347               | 38.994                 | -4.506      | 43.500         | QUASIPeAK     | 120.400      | 265.200         |
| 2 | 479.182         | -5.335              | 45.939               | 40.605                 | -5.395      | 46.000         | QUASIPeAK     | 211.200      | 140.200         |
| 3 | 574.052         | -3.192              | 45.309               | 42.118                 | -3.882      | 46.000         | QUASIPeAK     | 250.600      | 251.200         |
| 4 | 765.729         | 0.784               | 40.706               | 41.490                 | -4.510      | 46.000         | QUASIPeAK     | 120.500      | 325.100         |
| 5 | * 831.557       | 1.690               | 40.830               | 42.520                 | -3.480      | 46.000         | QUASIPeAK     | 125.000      | 333.100         |
| 6 | 949.661         | 3.453               | 37.951               | 41.404                 | -4.596      | 46.000         | QUASIPeAK     | 110.620      | 159.600         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:44                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : HORIZONTAL                        |
| Power : 120V/60Hz          | Note : Mode 3:Transmit by 802.11b 2462MHz |



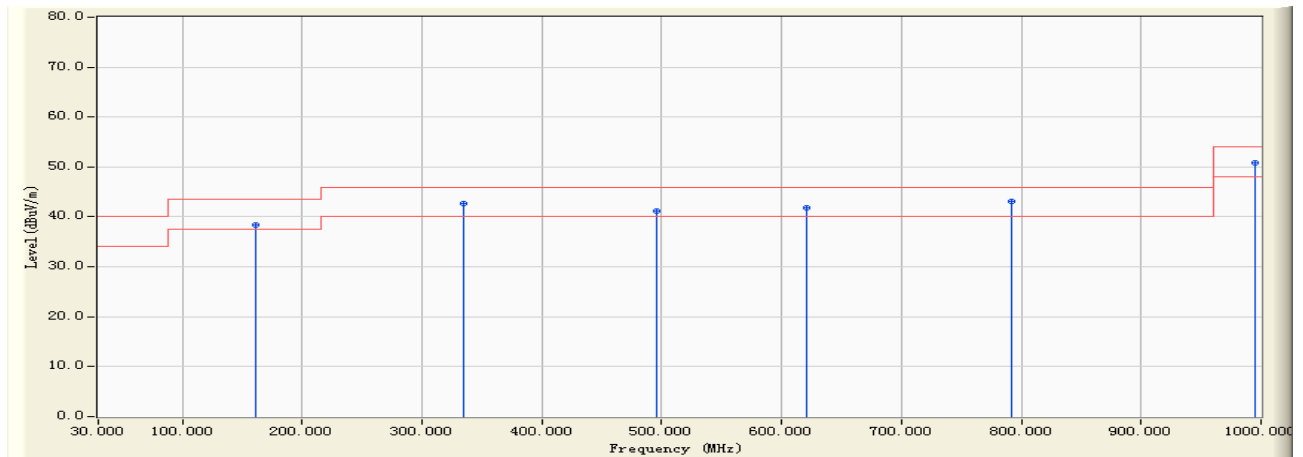
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 90.020          | -14.969             | 50.380               | 35.410                 | -8.090      | 43.500         | QUASIPeAK     | 100.000      | 270.200         |
| 2 | 373.523         | -8.431              | 48.563               | 40.131                 | -5.869      | 46.000         | QUASIPeAK     | 124.900      | 170.300         |
| 3 | 497.352         | -4.935              | 46.321               | 41.387                 | -4.613      | 46.000         | QUASIPeAK     | 200.500      | 250.100         |
| 4 | 744.250         | 0.343               | 40.969               | 41.312                 | -4.688      | 46.000         | QUASIPeAK     | 100.000      | 127.000         |
| 5 | * 903.210       | 3.063               | 41.269               | 44.332                 | -1.668      | 46.000         | QUASIPeAK     | 165.900      | 360.000         |
| 6 | 996.320         | 4.283               | 41.990               | 46.273                 | -7.727      | 54.000         | QUASIPeAK     | 135.600      | 251.030         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:52                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : VERTICAL                          |
| Power : 120V/60Hz          | Note : Mode 3:Transmit by 802.11b 2462MHz |



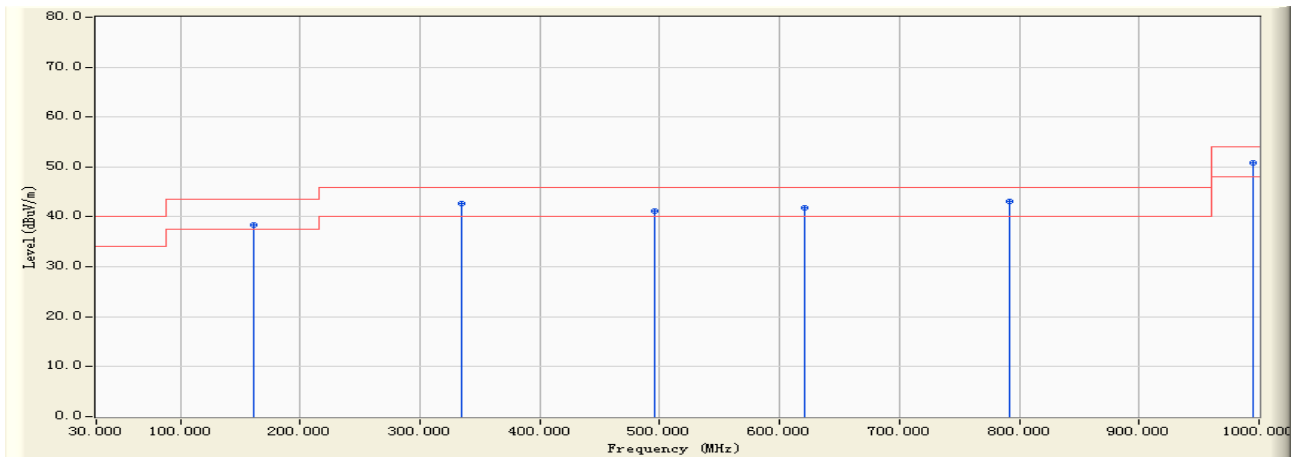
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 161.230         | -15.540             | 53.945               | 38.405                 | -5.095      | 43.500         | QUASIPeAK     | 124.500      | 231.230         |
| 2 | 335.360         | -9.773              | 52.400               | 42.627                 | -3.373      | 46.000         | QUASIPeAK     | 120.450      | 342.000         |
| 3 | 495.542         | -5.013              | 46.263               | 41.250                 | -4.750      | 46.000         | QUASIPeAK     | 156.300      | 251.000         |
| 4 | 620.423         | -2.207              | 43.986               | 41.778                 | -4.222      | 46.000         | QUASIPeAK     | 175.200      | 270.350         |
| 5 | * 792.360       | 1.150               | 41.930               | 43.080                 | -2.920      | 46.000         | QUASIPeAK     | 200.000      | 263.000         |
| 6 | 995.360         | 4.263               | 46.620               | 50.883                 | -3.117      | 54.000         | QUASIPeAK     | 124.900      | 152.030         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:52                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : HORIZONTAL                        |
| Power : 120V/60Hz          | Note : Mode 4:Transmit by 802.11g 2412MHz |



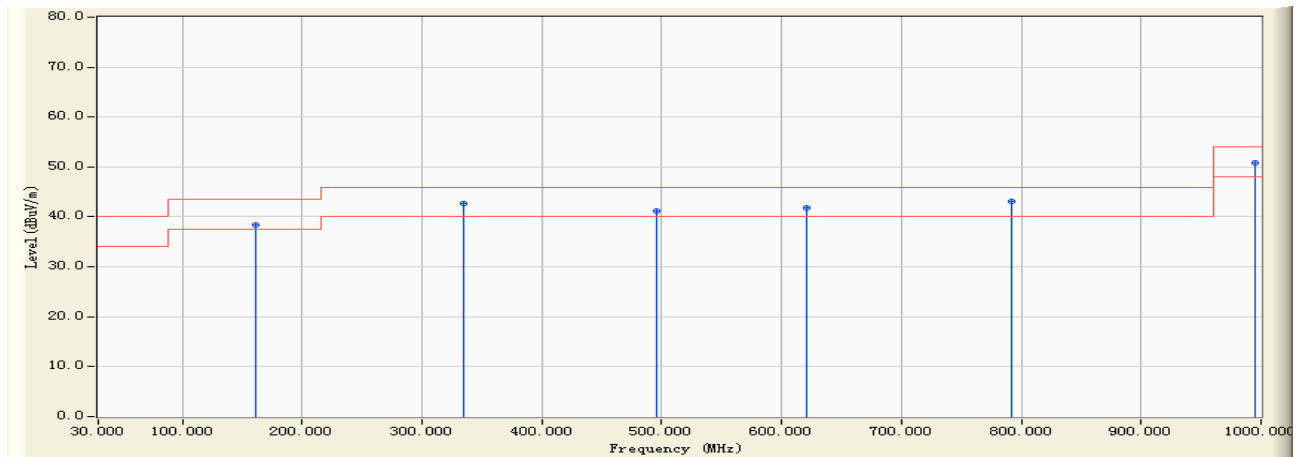
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 161.230         | -15.540             | 53.945               | 38.405                 | -5.095      | 43.500         | QUASIPeAK     | 120.100      | 231.230         |
| 2 | 335.360         | -9.773              | 52.400               | 42.627                 | -3.373      | 46.000         | QUASIPeAK     | 100.000      | 342.000         |
| 3 | 495.542         | -5.013              | 46.263               | 41.250                 | -4.750      | 46.000         | QUASIPeAK     | 125.600      | 251.000         |
| 4 | 620.423         | -2.207              | 43.986               | 41.778                 | -4.222      | 46.000         | QUASIPeAK     | 200.500      | 270.350         |
| 5 | * 792.360       | 1.150               | 41.930               | 43.080                 | -2.920      | 46.000         | QUASIPeAK     | 210.600      | 263.000         |
| 6 | 995.360         | 4.263               | 46.620               | 50.883                 | -3.117      | 54.000         | QUASIPeAK     | 108.900      | 152.030         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:52                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : VERTICAL                          |
| Power : 120V/60Hz          | Note : Mode 4:Transmit by 802.11g 2412MHz |



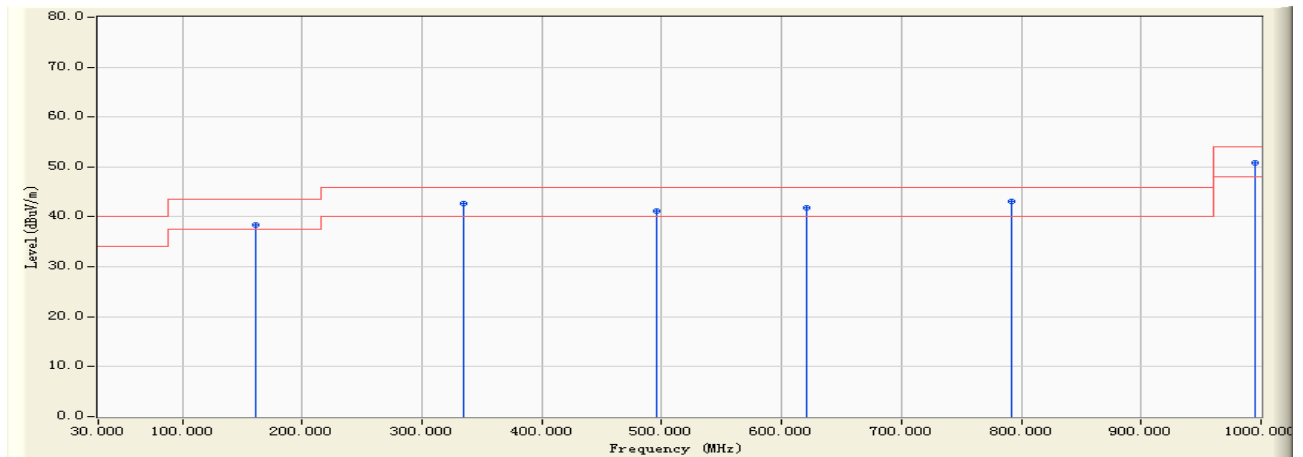
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 161.230         | -15.540             | 53.945               | 38.405                 | -5.095      | 43.500         | QUASIPeAK     | 116.200      | 231.230         |
| 2 | 335.360         | -9.773              | 52.400               | 42.627                 | -3.373      | 46.000         | QUASIPeAK     | 121.300      | 342.000         |
| 3 | 495.542         | -5.013              | 46.263               | 41.250                 | -4.750      | 46.000         | QUASIPeAK     | 100.000      | 251.000         |
| 4 | 620.423         | -2.207              | 43.986               | 41.778                 | -4.222      | 46.000         | QUASIPeAK     | 130.200      | 270.350         |
| 5 | * 792.360       | 1.150               | 41.930               | 43.080                 | -2.920      | 46.000         | QUASIPeAK     | 120.500      | 263.000         |
| 6 | 995.360         | 4.263               | 46.620               | 50.883                 | -3.117      | 54.000         | QUASIPeAK     | 110.880      | 152.030         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:52                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : HORIZONTAL                        |
| Power : 120V/60Hz          | Note : Mode 5:Transmit by 802.11g 2437MHz |



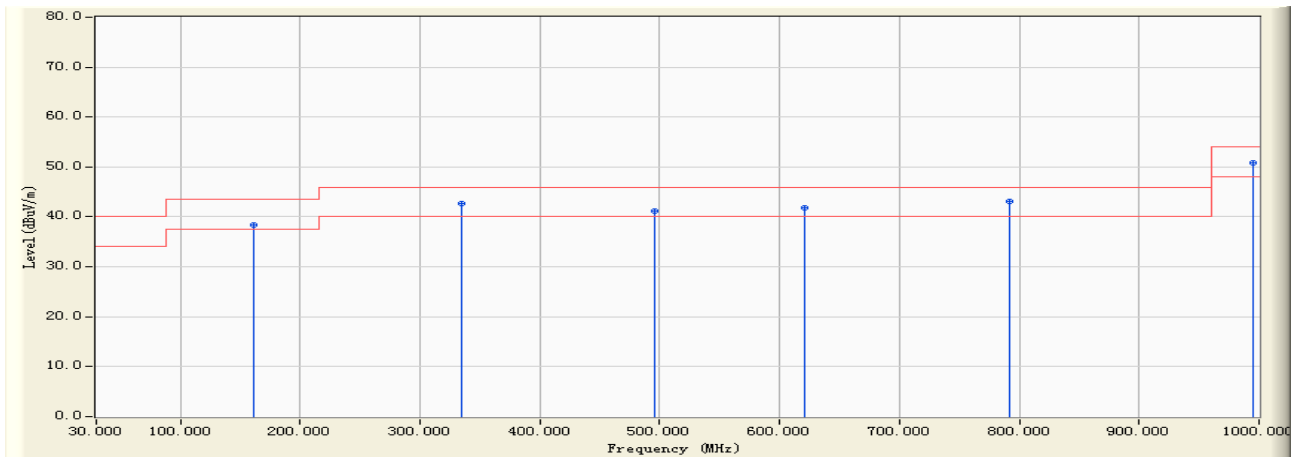
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 161.230         | -15.540             | 53.945               | 38.405                 | -5.095      | 43.500         | QUASIPeAK     | 206.300      | 231.230         |
| 2 | 335.360         | -9.773              | 52.400               | 42.627                 | -3.373      | 46.000         | QUASIPeAK     | 159.200      | 342.000         |
| 3 | 495.542         | -5.013              | 46.263               | 41.250                 | -4.750      | 46.000         | QUASIPeAK     | 162.800      | 251.000         |
| 4 | 620.423         | -2.207              | 43.986               | 41.778                 | -4.222      | 46.000         | QUASIPeAK     | 142.300      | 270.350         |
| 5 | * 792.360       | 1.150               | 41.930               | 43.080                 | -2.920      | 46.000         | QUASIPeAK     | 200.200      | 263.000         |
| 6 | 995.360         | 4.263               | 46.620               | 50.883                 | -3.117      | 54.000         | QUASIPeAK     | 251.20       | 152.030         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:52                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : VERTICAL                          |
| Power : 120V/60Hz          | Note : Mode 5:Transmit by 802.11g 2437MHz |



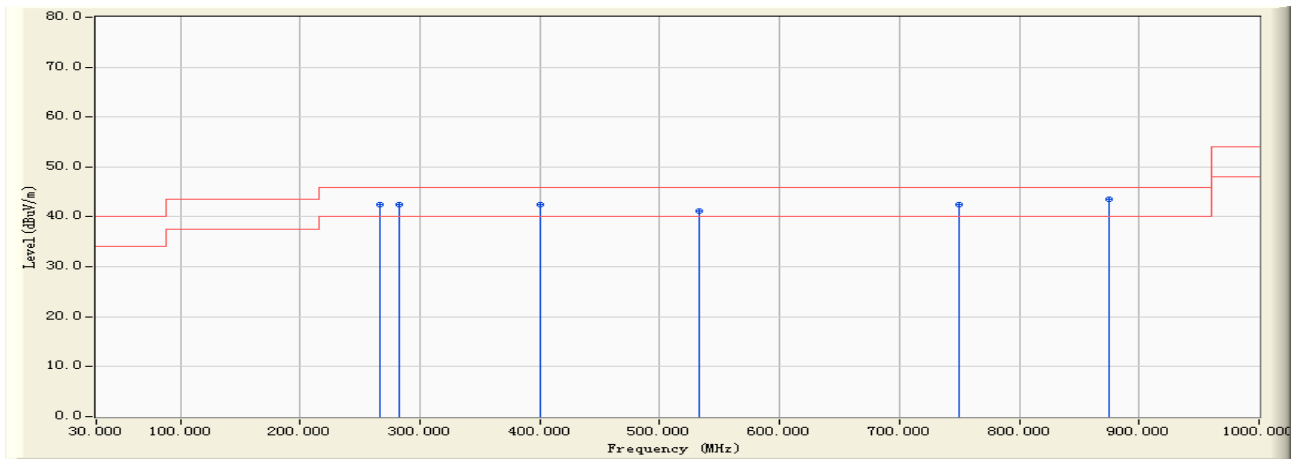
|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 161.230         | -15.540             | 53.945               | 38.405                 | -5.095      | 43.500         | QUASIPeAK     | 115.20<br>0  | 231.230         |
| 2 | 335.360         | -9.773              | 52.400               | 42.627                 | -3.373      | 46.000         | QUASIPeAK     | 109.200      | 342.000         |
| 3 | 495.542         | -5.013              | 46.263               | 41.250                 | -4.750      | 46.000         | QUASIPeAK     | 169.200      | 251.000         |
| 4 | 620.423         | -2.207              | 43.986               | 41.778                 | -4.222      | 46.000         | QUASIPeAK     | 100.000      | 270.350         |
| 5 | * 792.360       | 1.150               | 41.930               | 43.080                 | -2.920      | 46.000         | QUASIPeAK     | 115.300      | 263.000         |
| 6 | 995.360         | 4.263               | 46.620               | 50.883                 | -3.117      | 54.000         | QUASIPeAK     | 109.800      | 152.030         |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 14:59                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : HORIZONTAL                        |
| Power : 120V/60Hz          | Note : Mode 6:Transmit by 802.11g 2462MHz |



|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 266.660         | -12.135             | 54.590               | 42.455                 | -3.545      | 46.000         | QUASIPeAK     | 210.100      | 330.100         |
| 2 | 282.361         | -11.521             | 53.986               | 42.464                 | -3.536      | 46.000         | QUASIPeAK     | 150.600      | 315.860         |
| 3 | 399.980         | -7.592              | 50.070               | 42.479                 | -3.521      | 46.000         | QUASIPeAK     | 160.100      | 258.500         |
| 4 | 533.360         | -4.131              | 45.300               | 41.169                 | -4.831      | 46.000         | QUASIPeAK     | 109.900      | 329.300         |
| 5 | 750.000         | 0.440               | 42.000               | 42.440                 | -3.560      | 46.000         | QUASIPeAK     | 200.100      | 360.000         |
| 6 | * 874.990       | 2.477               | 41.000               | 43.478                 | -2.522      | 46.000         | QUASIPeAK     | 200.700      | 37.900          |

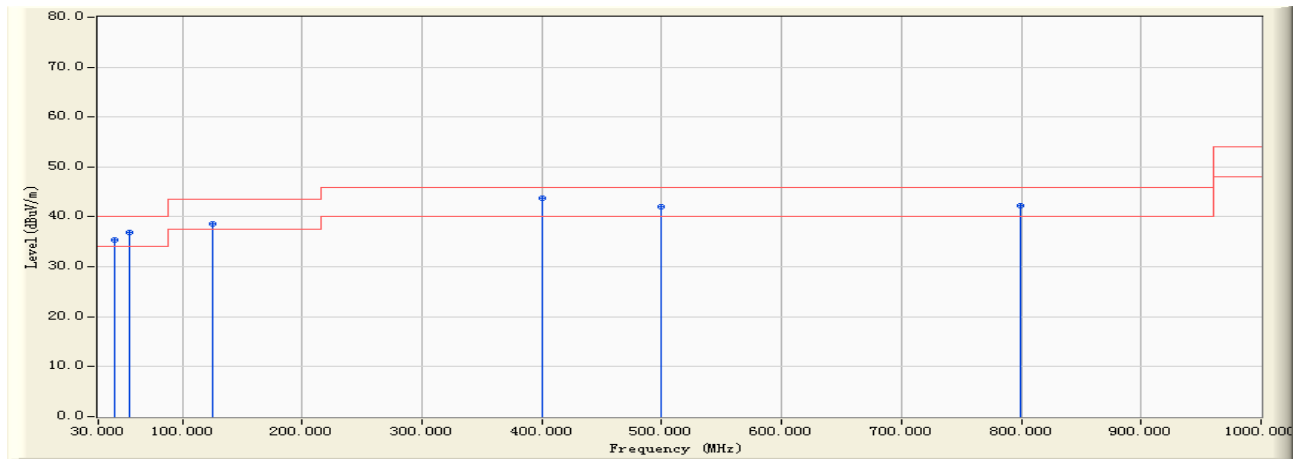
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor





|                            |   |
|----------------------------|---|
| Engineer : Sandy           |   |
| Site : EMC Lab AC 102      | Time : 2009/07/30 - 15:00                 |
| Limit : FCC_CLASS_B_03M_QP | Margin : 6                                |
| EUT : P-2612HWU-F1         | Probe : VERTICAL                          |
| Power : 120V/60Hz          | Note : Mode 6:Transmit by 802.11g 2462MHz |



|   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type | Ant Pos (cm) | Table Pos (deg) |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|--------------|-----------------|
| 1 | 44.090          | -12.761             | 48.120               | 35.360                 | -4.640      | 40.000         | QUASIPeAK     | 123.100      | 263.100         |
| 2 | 56.330          | -20.080             | 56.990               | 36.911                 | -3.089      | 40.000         | QUASIPeAK     | 200.000      | 326.100         |
| 3 | 125.000         | -13.749             | 52.360               | 38.611                 | -4.889      | 43.500         | QUASIPeAK     | 109.300      | 98.690          |
| 4 | * 400.390       | -7.579              | 51.280               | 43.701                 | -2.299      | 46.000         | QUASIPeAK     | 108.600      | 308.100         |
| 5 | 499.230         | -4.836              | 46.860               | 42.024                 | -3.976      | 46.000         | QUASIPeAK     | 126.000      | 225.100         |
| 6 | 799.210         | 1.120               | 41.090               | 42.210                 | -3.790      | 46.000         | QUASIPeAK     | 100.000      | 159.320         |

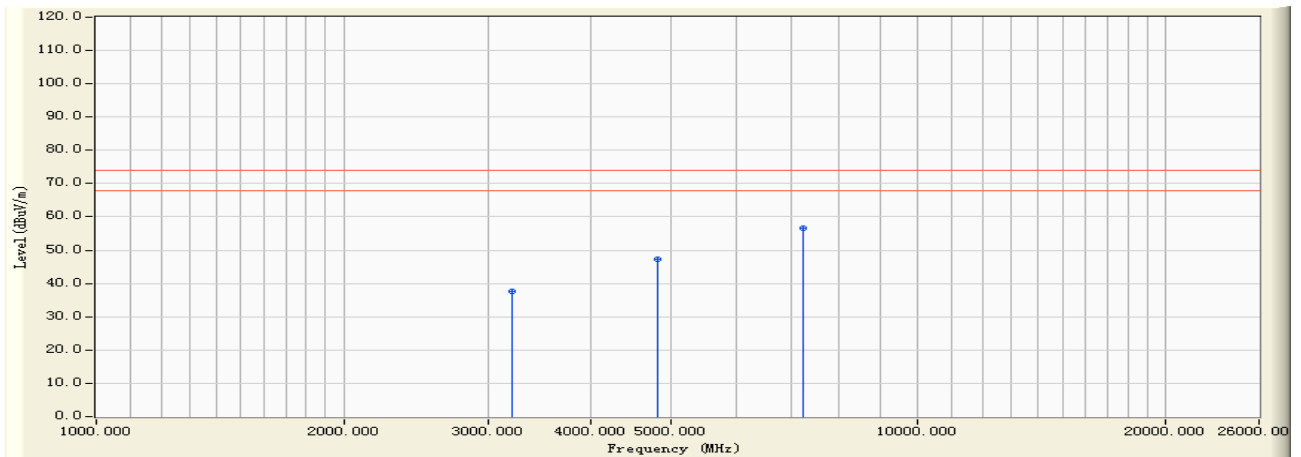
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



Above 1G:

|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:25                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 1: Transmit by 802.11b 2412MHz |



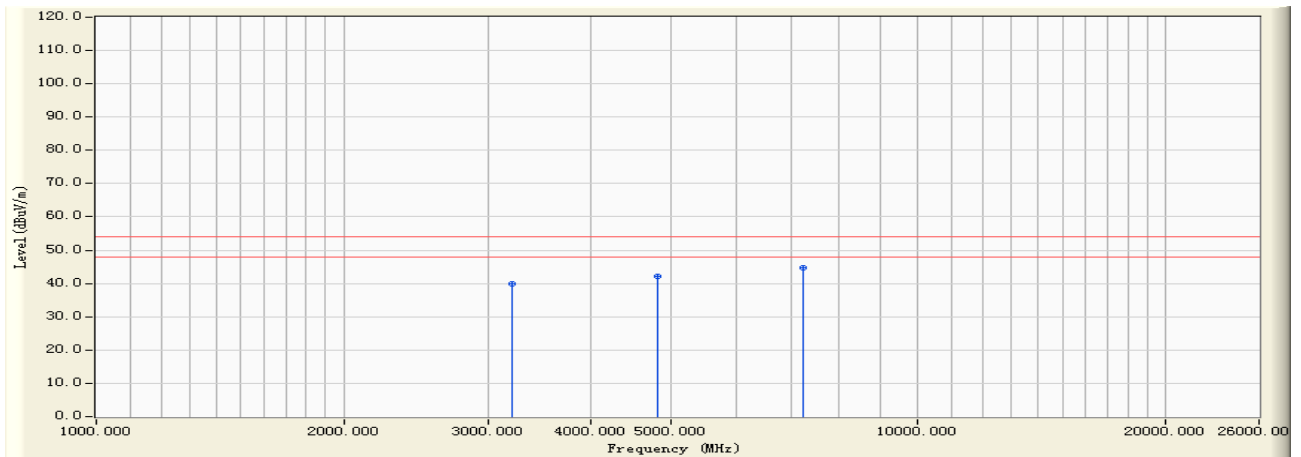
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 38.300               | 37.785                 | -36.185     | 73.970         | PEAK          |
| 2 |   | 4824.000        | 6.389               | 40.900               | 47.289                 | -26.681     | 73.970         | PEAK          |
| 3 | * | 7240.000        | 10.010              | 46.670               | 56.680                 | -17.290     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:25                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 1: Transmit by 802.11b 2412MHz |



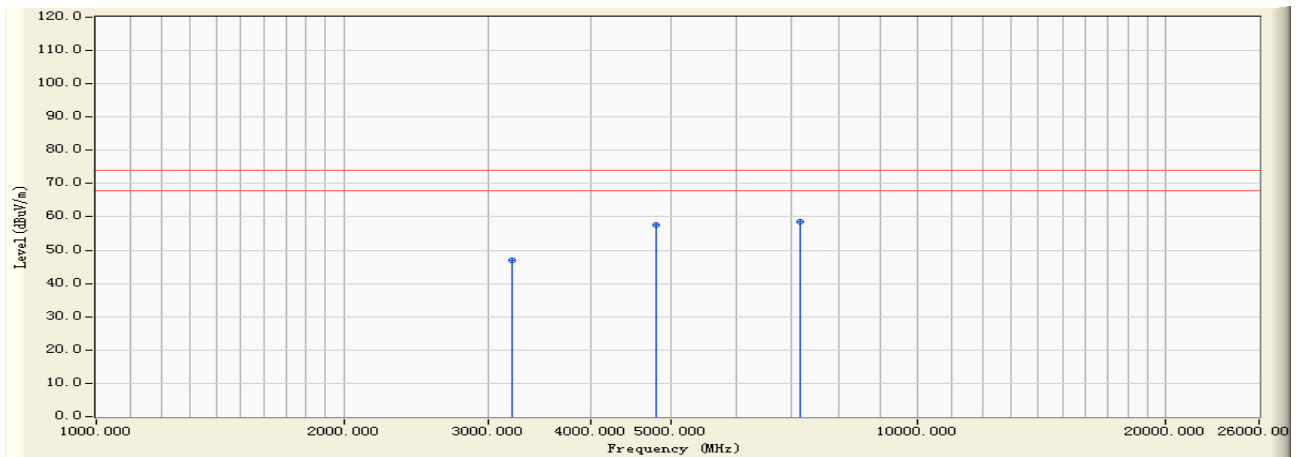
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 40.400               | 39.885                 | -14.085     | 53.970         | AVERAGE       |
| 2 |   | 4824.000        | 6.389               | 35.780               | 42.169                 | -11.801     | 53.970         | AVERAGE       |
| 3 | * | 7240.000        | 10.010              | 34.800               | 44.810                 | -9.160      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:26                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 1: Transmit by 802.11b 2412MHz |



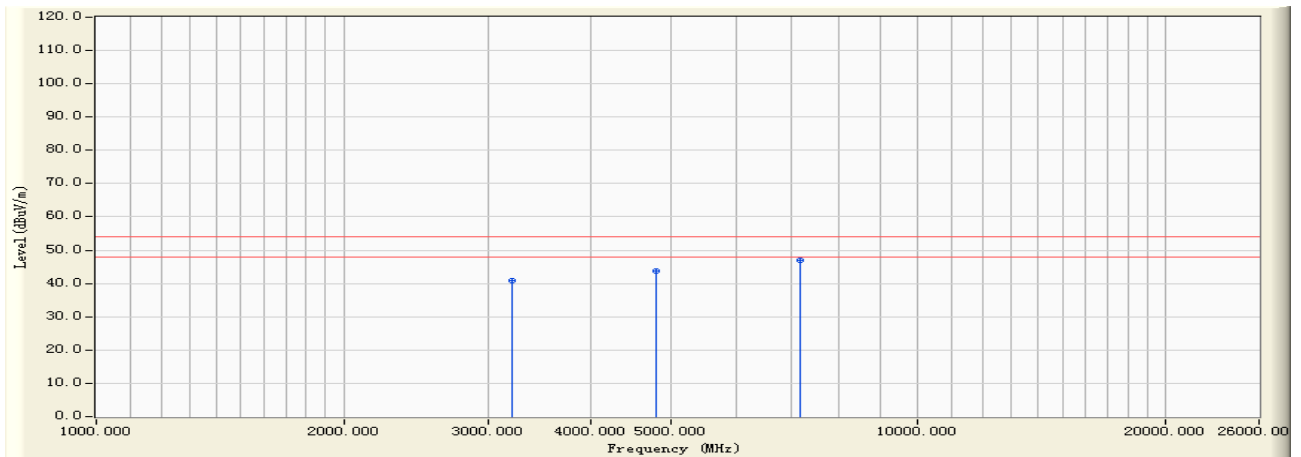
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 47.500               | 46.985                 | -26.985     | 73.970         | PEAK          |
| 2 |   | 4800.000        | 6.381               | 51.230               | 57.611                 | -16.359     | 73.970         | PEAK          |
| 3 | * | 7200.000        | 10.098              | 48.600               | 58.698                 | -15.272     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:26                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 1: Transmit by 802.11b 2412MHz |



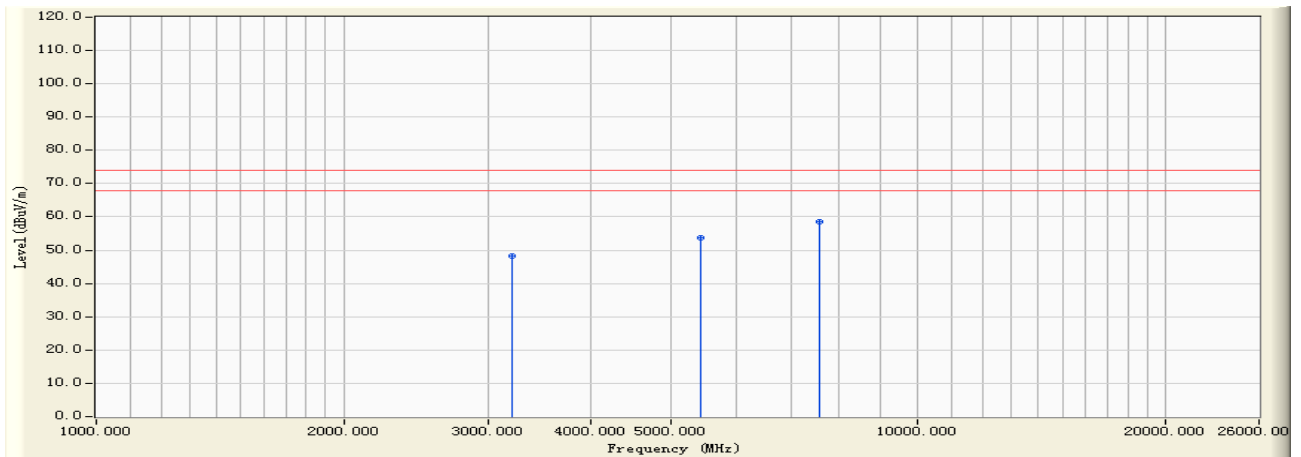
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 41.500               | 40.985                 | -12.985     | 53.970         | AVERAGE       |
| 2 |   | 4800.000        | 6.381               | 37.400               | 43.781                 | -10.189     | 53.970         | AVERAGE       |
| 3 | * | 7200.000        | 10.098              | 36.900               | 46.998                 | -6.972      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:32                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 2: Transmit by 802.11b 2437MHZ |



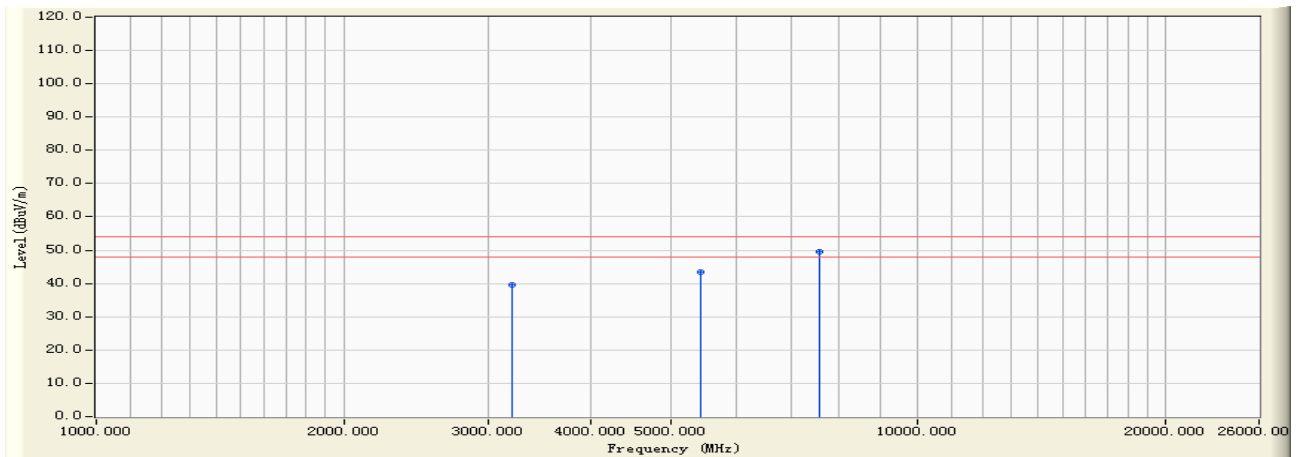
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 48.780               | 48.265                 | -25.705     | 73.970         | PEAK          |
| 2 |   | 5450.000        | 5.585               | 48.000               | 53.584                 | -20.386     | 73.970         | PEAK          |
| 3 | * | 7600.000        | 10.487              | 48.130               | 58.617                 | -15.353     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:32                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2602HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 2: Transmit by 802.11b 2437MHz |



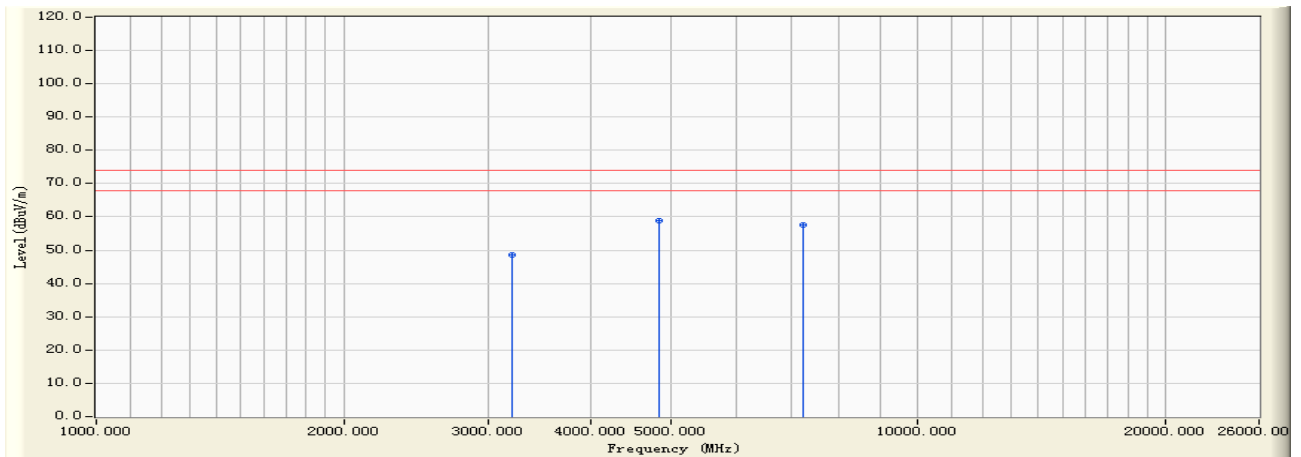
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 40.100               | 39.585                 | -14.385     | 53.970         | AVERAGE       |
| 2 |   | 5450.000        | 5.585               | 37.980               | 43.564                 | -10.406     | 53.970         | AVERAGE       |
| 3 | * | 7600.000        | 10.487              | 38.980               | 49.467                 | -4.503      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:28                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 2: Transmit by 802.11b 2437MHz |



|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 48.990               | 48.475                 | -25.495     | 73.970         | PEAK          |
| 2 | * | 4850.000        | 6.401               | 52.370               | 58.771                 | -15.199     | 73.970         | PEAK          |
| 3 |   | 7250.000        | 9.979               | 47.670               | 57.648                 | -16.322     | 73.970         | PEAK          |

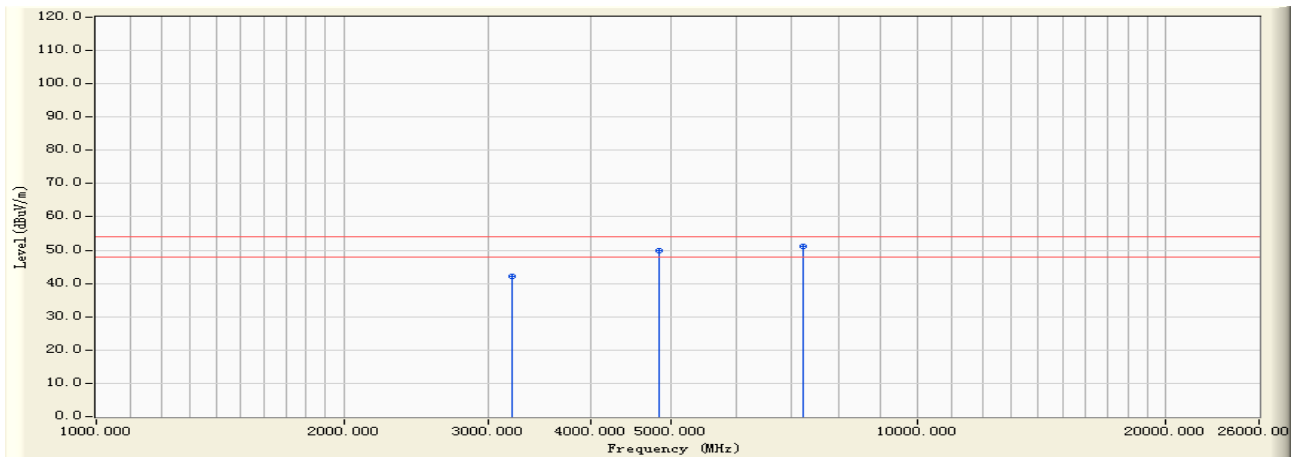
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor





|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:28                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 2: Transmit by 802.11b 2437MHz |



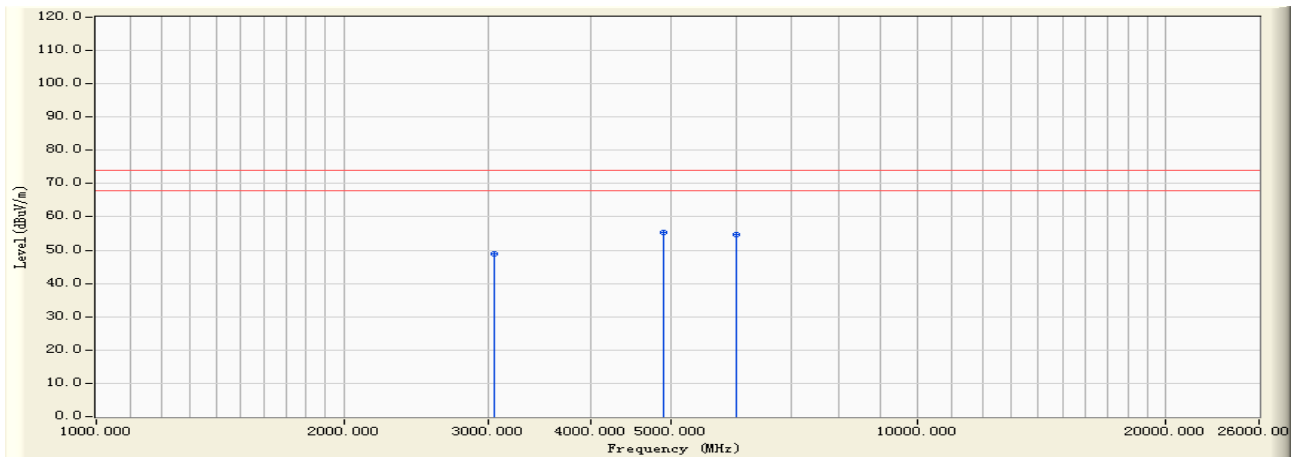
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 42.500               | 41.985                 | -11.985     | 53.970         | AVERAGE       |
| 2 |   | 4850.000        | 6.401               | 43.500               | 49.901                 | -4.069      | 53.970         | AVERAGE       |
| 3 | * | 7250.000        | 9.979               | 41.300               | 51.278                 | -2.692      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:35                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 3: Transmit by 802.11b 2462MHz |



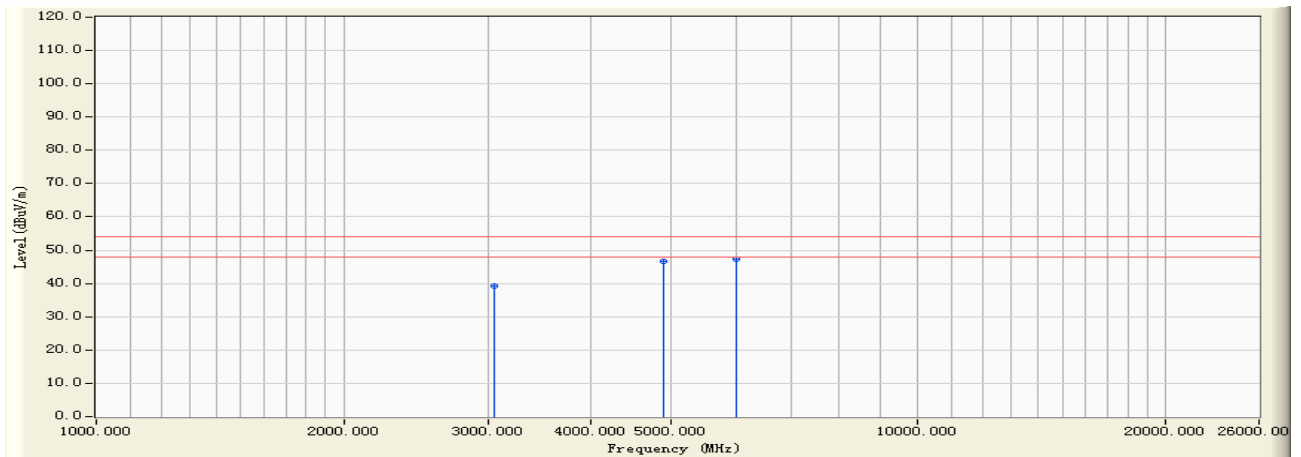
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3050.000        | -0.350              | 49.160               | 48.810                 | -25.160     | 73.970         | PEAK          |
| 2 | * | 4900.000        | 6.432               | 48.760               | 55.192                 | -18.778     | 73.970         | PEAK          |
| 3 |   | 6000.000        | 6.139               | 48.510               | 54.649                 | -19.321     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:35                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 3: Transmit by 802.11b 2462MHz |



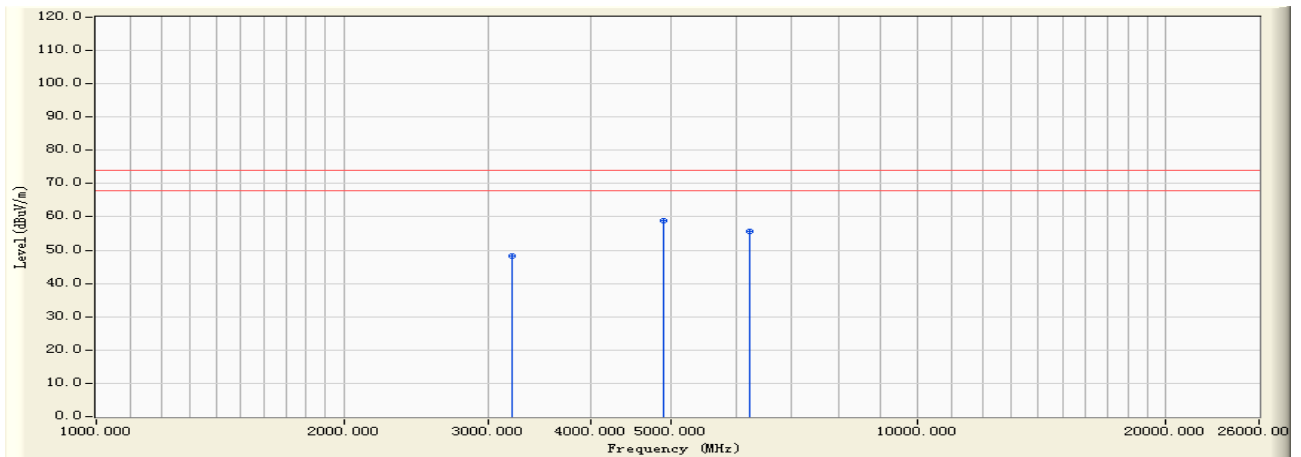
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3050.000        | -0.350              | 39.500               | 39.150                 | -14.820     | 53.970         | AVERAGE       |
| 2 |   | 4900.000        | 6.432               | 40.200               | 46.632                 | -7.338      | 53.970         | AVERAGE       |
| 3 | * | 6000.000        | 6.139               | 41.300               | 47.439                 | -6.531      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:37                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 3: Transmit by 802.11b 2462MHz |



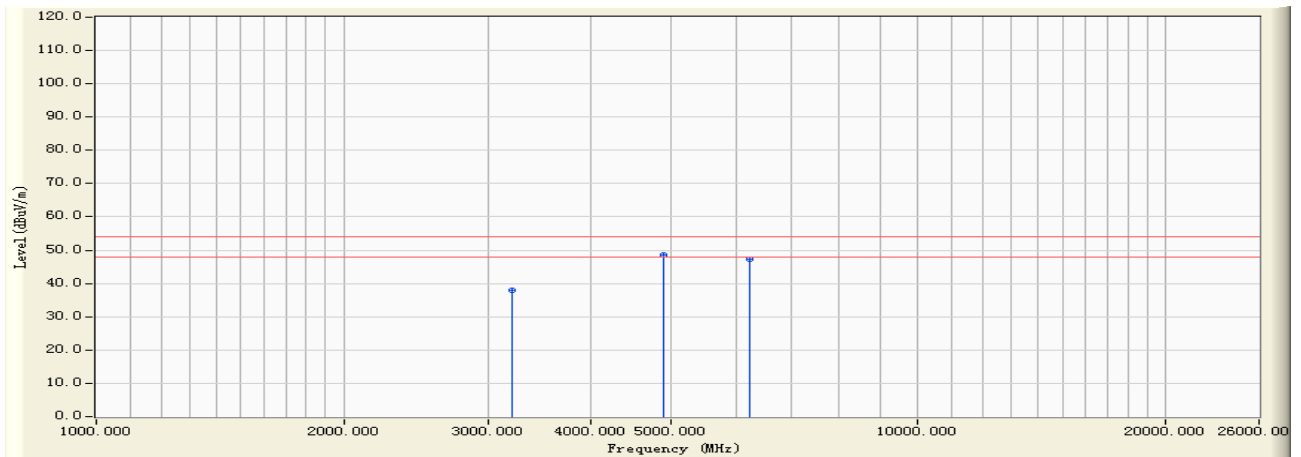
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 48.879               | 48.364                 | -25.606     | 73.970         | PEAK          |
| 2 | * | 4900.000        | 6.432               | 52.525               | 58.957                 | -15.013     | 73.970         | PEAK          |
| 3 |   | 6250.000        | 6.920               | 48.700               | 55.620                 | -18.350     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:37                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 3: Transmit by 802.11b 2462MHz |



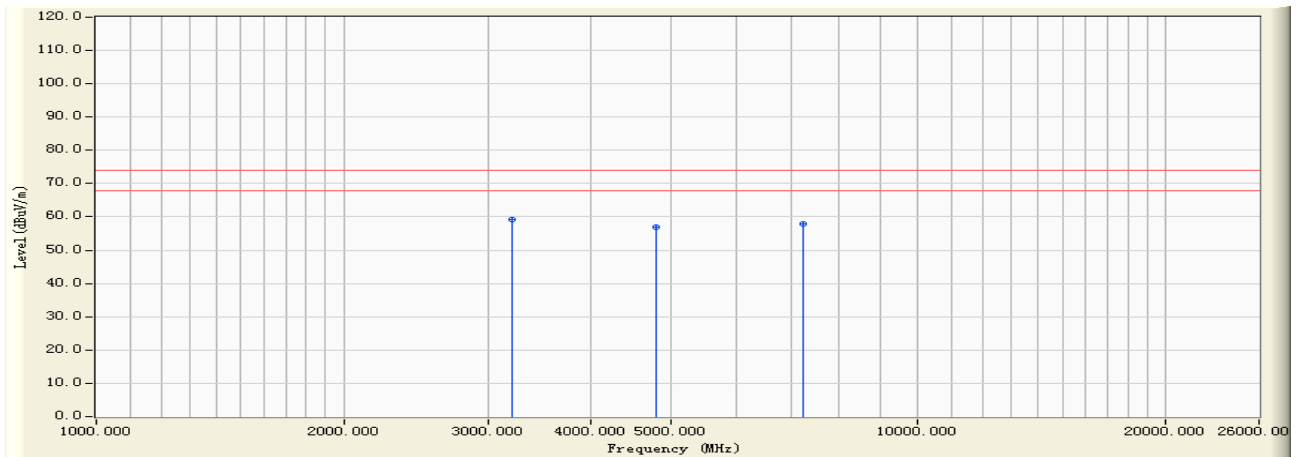
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 38.500               | 37.985                 | -15.985     | 53.970         | AVERAGE       |
| 2 | * | 4900.000        | 6.432               | 42.100               | 48.532                 | -5.438      | 53.970         | AVERAGE       |
| 3 |   | 6250.000        | 6.920               | 40.500               | 47.420                 | -6.550      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:42                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 4: Transmit by 802.11g 2412MHz |



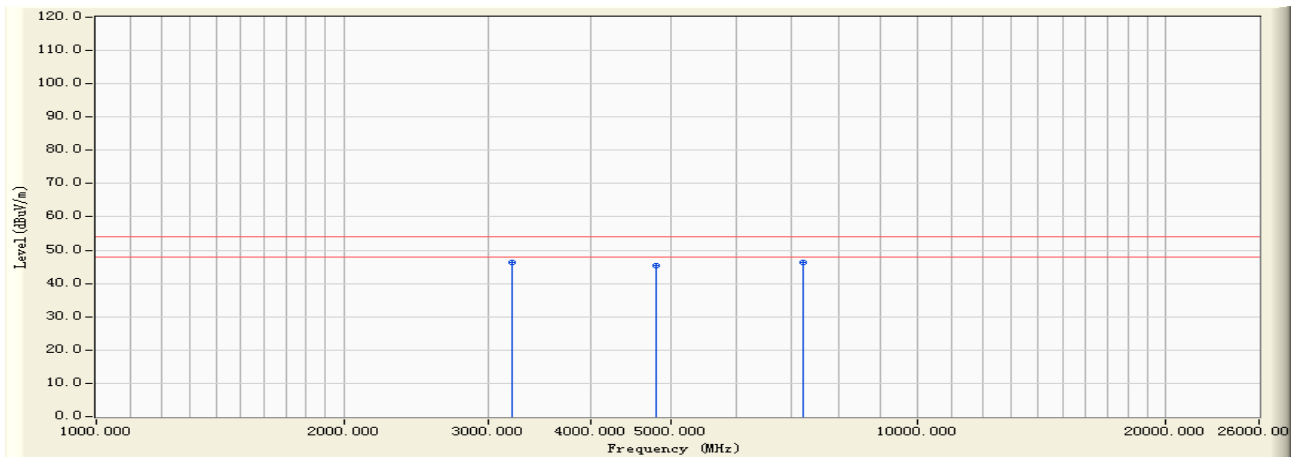
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 3200.000        | -0.515              | 59.611               | 59.096                 | -14.874     | 73.970         | PEAK          |
| 2 |   | 4800.000        | 6.381               | 50.545               | 56.926                 | -17.044     | 73.970         | PEAK          |
| 3 |   | 7250.000        | 9.979               | 48.059               | 58.037                 | -15.933     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:42                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 4: Transmit by 802.11g 2412MHz |



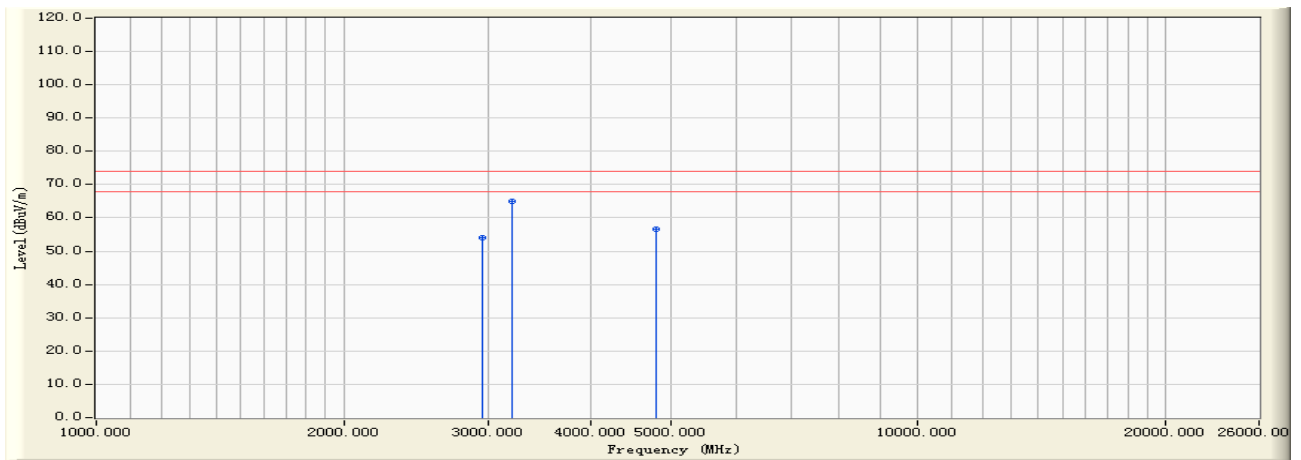
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3200.000        | -0.515              | 46.800               | 46.285                 | -7.685      | 53.970         | AVERAGE       |
| 2 |   | 4800.000        | 6.381               | 39.100               | 45.481                 | -8.489      | 53.970         | AVERAGE       |
| 3 | * | 7250.000        | 9.979               | 36.400               | 46.378                 | -7.592      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:40                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 4: Transmit by 802.11g 2412MHz |



|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2950.000        | -0.416              | 54.620               | 54.204                 | -19.766     | 73.970         | PEAK          |
| 2 | * | 3200.000        | -0.515              | 65.498               | 64.983                 | -8.987      | 73.970         | PEAK          |
| 3 |   | 4800.000        | 6.381               | 50.168               | 56.549                 | -17.421     | 73.970         | PEAK          |

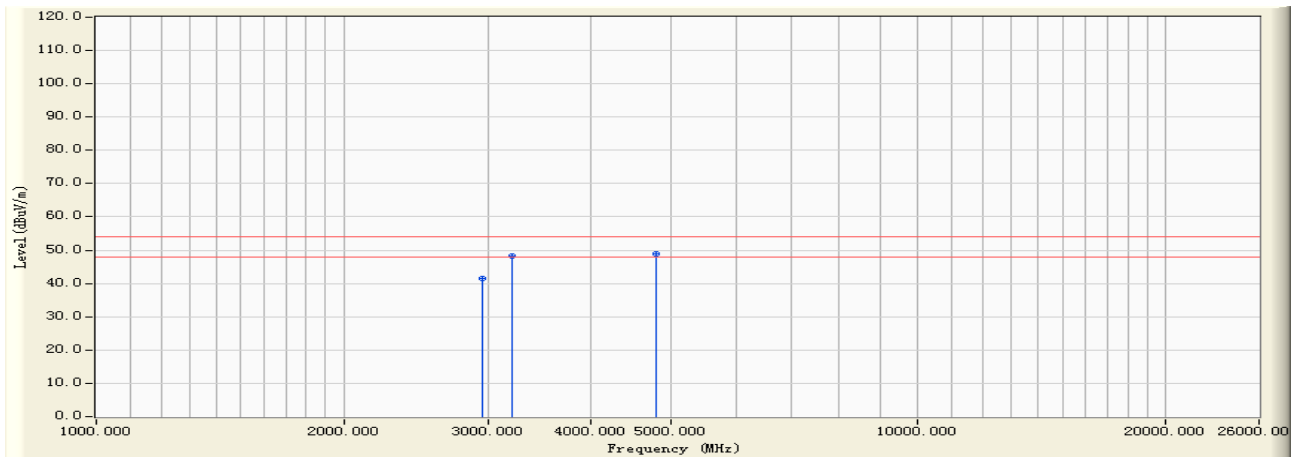
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor





|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:40                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : BVERTICAL                          |
| Power : AC120V/60Hz              | Note : Mode 4: Transmit by 802.11g 2412MHz |



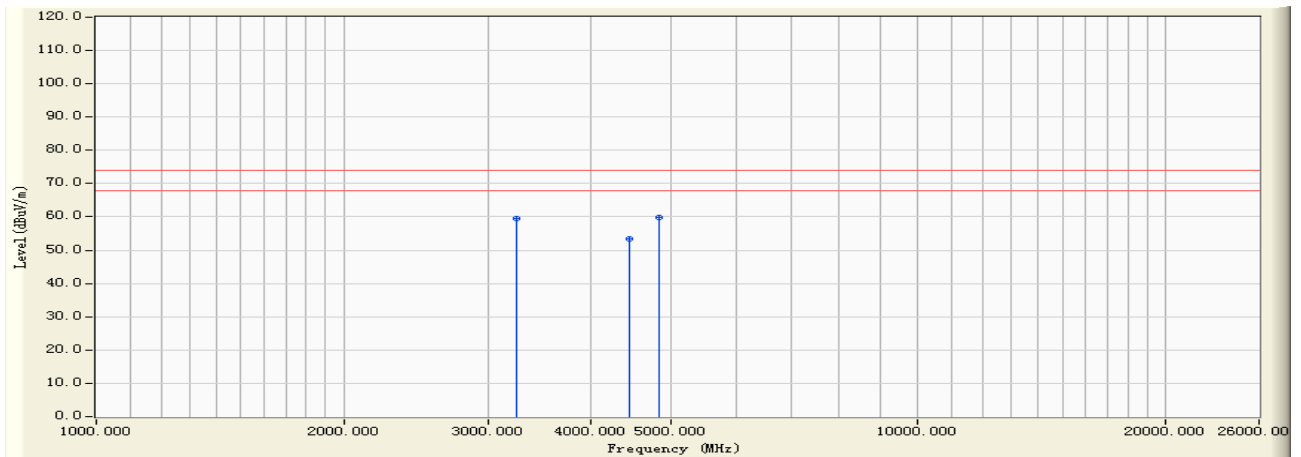
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2950.000        | -0.416              | 41.916               | 41.500                 | -12.470     | 53.970         | AVERAGE       |
| 2 |   | 3200.000        | -0.515              | 48.900               | 48.385                 | -5.585      | 53.970         | AVERAGE       |
| 3 | * | 4800.000        | 6.381               | 42.500               | 48.881                 | -5.089      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:45                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 5: Transmit by 802.11g 2437MHz |



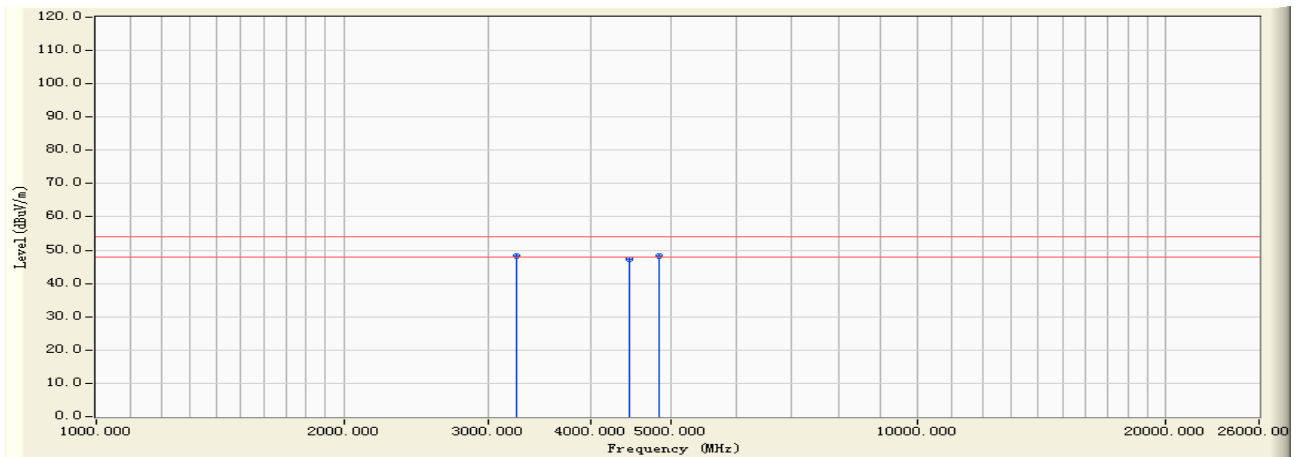
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3250.000        | -0.486              | 60.154               | 59.668                 | -14.302     | 73.970         | PEAK          |
| 2 |   | 4450.000        | 5.995               | 47.506               | 53.501                 | -20.469     | 73.970         | PEAK          |
| 3 | * | 4850.000        | 6.401               | 53.324               | 59.725                 | -14.245     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:45                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 5: Transmit by 802.11g 2437MHz |



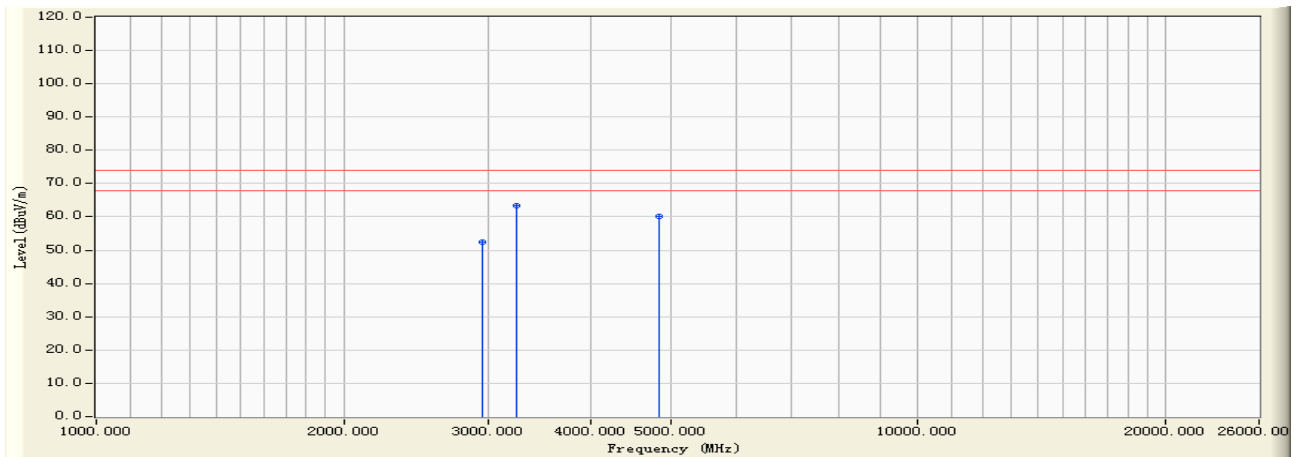
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 3250.000        | -0.486              | 48.700               | 48.214                 | -5.756      | 53.970         | AVERAGE       |
| 2 |   | 4450.000        | 5.995               | 41.400               | 47.395                 | -6.575      | 53.970         | AVERAGE       |
| 3 | * | 4850.000        | 6.401               | 41.870               | 48.271                 | -5.699      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:47                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 5: Transmit by 802.11g 2437MHz |



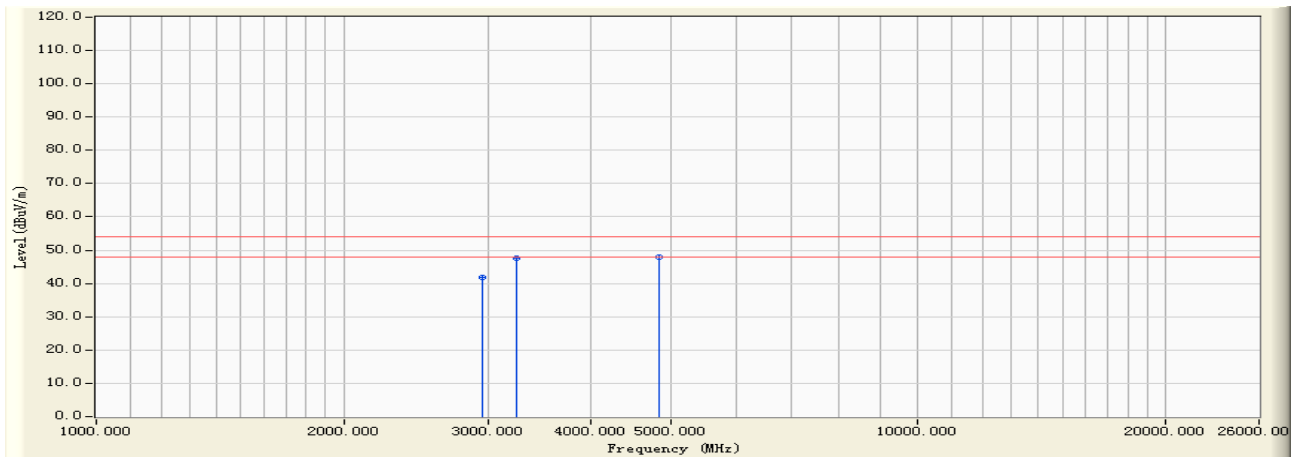
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2950.000        | -0.416              | 52.793               | 52.377                 | -21.593     | 73.970         | PEAK          |
| 2 | * | 3250.000        | -0.486              | 63.882               | 63.396                 | -10.574     | 73.970         | PEAK          |
| 3 |   | 4850.000        | 6.401               | 53.897               | 60.298                 | -13.672     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:47                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 5: Transmit by 802.11g 2437MHz |



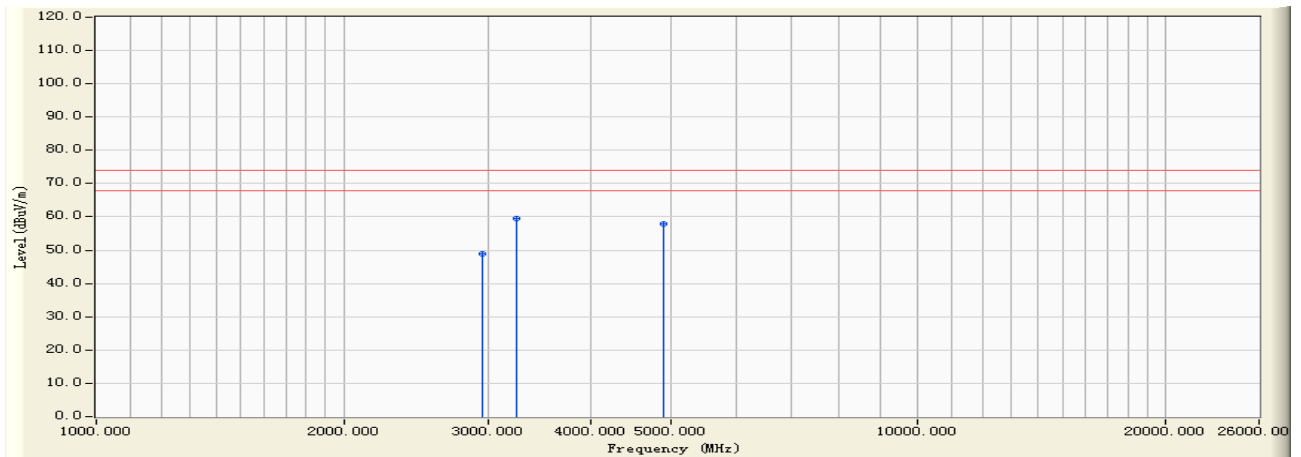
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2950.000        | -0.416              | 42.100               | 41.684                 | -12.286     | 53.970         | AVERAGE       |
| 2 |   | 3250.000        | -0.486              | 48.000               | 47.514                 | -6.456      | 53.970         | AVERAGE       |
| 3 | * | 4850.000        | 6.401               | 41.500               | 47.901                 | -6.069      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:51                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 6: Transmit by 802.11g 2462MHz |



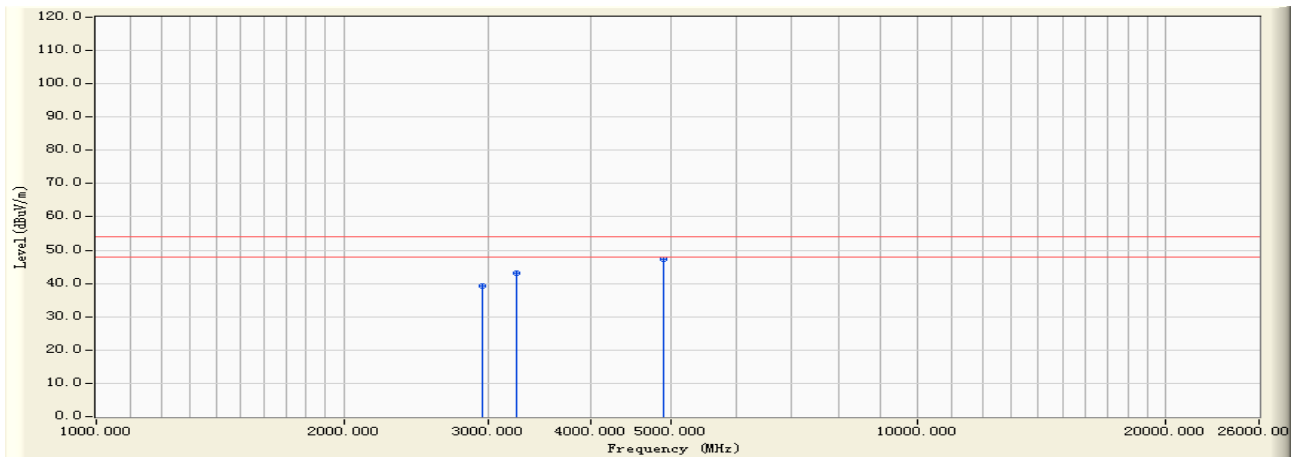
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2950.000        | -0.416              | 49.214               | 48.798                 | -25.172     | 73.970         | PEAK          |
| 2 | * | 3250.000        | -0.486              | 59.925               | 59.439                 | -14.531     | 73.970         | PEAK          |
| 3 |   | 4900.000        | 6.432               | 51.422               | 57.854                 | -16.116     | 73.970         | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:51                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : HORIZONTAL                         |
| Power : AC120V/60Hz              | Note : Mode 6: Transmit by 802.11g 2462MHz |



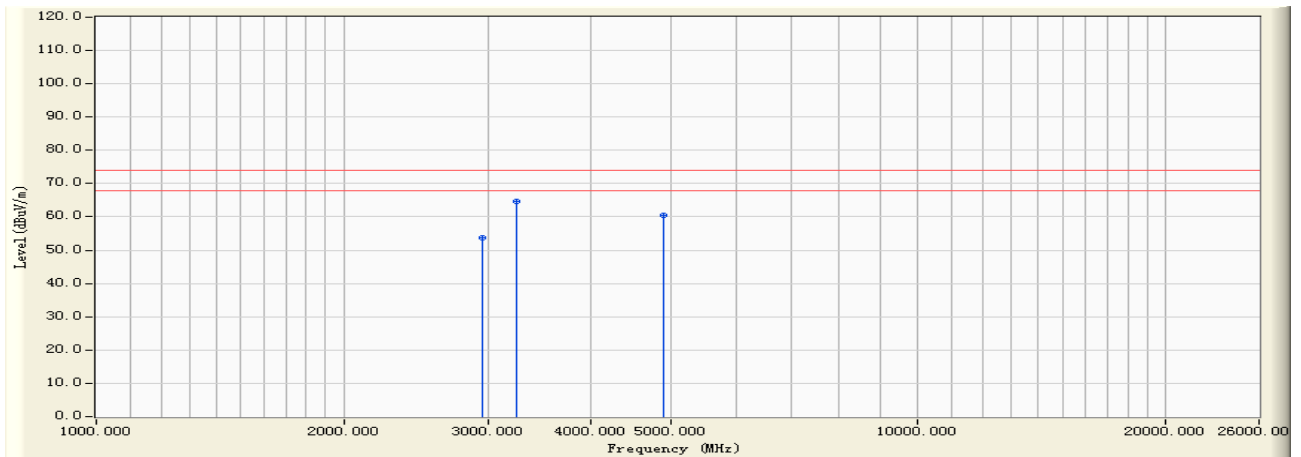
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2950.000        | -0.416              | 39.700               | 39.284                 | -14.686     | 53.970         | AVERAGE       |
| 2 |   | 3250.000        | -0.486              | 43.500               | 43.014                 | -10.956     | 53.970         | AVERAGE       |
| 3 | * | 4900.000        | 6.432               | 40.800               | 47.232                 | -6.738      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:49                  |
| Limit : FCC_SpartC_15.209_03M_PK | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 6: Transmit by 802.11g 2462MHz |



|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2950.000        | -0.416              | 54.260               | 53.844                 | -20.126     | 73.970         | PEAK          |
| 2 | * | 3250.000        | -0.486              | 65.103               | 64.617                 | -9.353      | 73.970         | PEAK          |
| 3 |   | 4900.000        | 6.432               | 53.979               | 60.411                 | -13.559     | 73.970         | PEAK          |

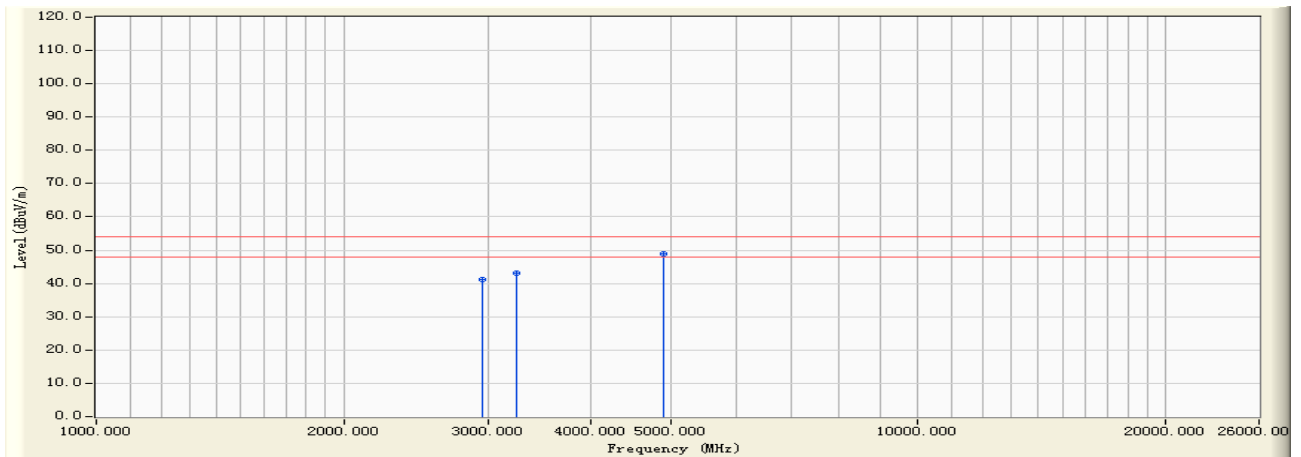
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor





|                                  |  |
|----------------------------------|--|
| Engineer : FRED                  |  |
| Site : EMC Lab AC102             | Time : 2009/07/31 - 10:49                  |
| Limit : FCC_SpartC_15.209_03M_AV | Margin : 6                                 |
| EUT : P-2612HWU-F1               | Probe : VERTICAL                           |
| Power : AC120V/60Hz              | Note : Mode 6: Transmit by 802.11g 2462MHz |



|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2950.000        | -0.416              | 41.500               | 41.084                 | -12.886     | 53.970         | AVERAGE       |
| 2 |   | 3250.000        | -0.486              | 43.500               | 43.014                 | -10.956     | 53.970         | AVERAGE       |
| 3 | * | 4900.000        | 6.432               | 42.540               | 48.972                 | -4.998      | 53.970         | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



## 5. Occupied Bandwidth

### 5.1. Test Limit

Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725- 5850 MHz band.

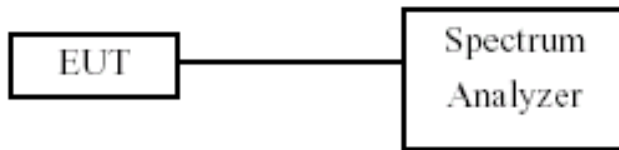
The minimum 6 dB bandwidth shall be at least 500 kHz.

### 5.2. Test Procedures

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

### 5.3. Test Setup Layout



### 5.4. Measurement Equipment

| Instrument/Ancillary           | Model No. | Manufacturer | Serial No. | Calibration Date |
|--------------------------------|-----------|--------------|------------|------------------|
| Spectrum Analyzer              | R&S       | FSP40        | 100324     | 2008.09.28       |
| Temperature/<br>Humidity Meter | Zhicheng  | ZC1-11       | CEP-TH-002 | 2008.10.10       |

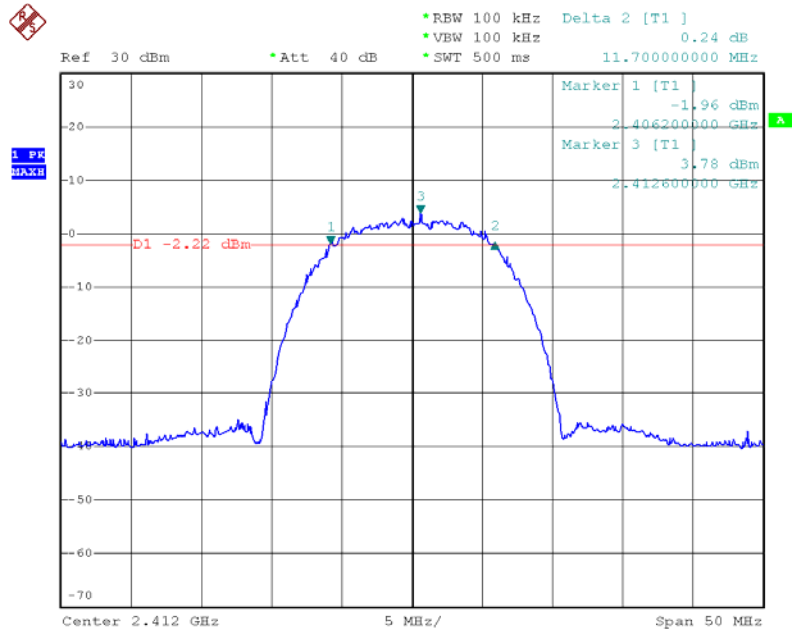


### 5.5. Test Result and Data

|           |                             |
|-----------|-----------------------------|
| Test Item | Occupied Bandwidth          |
| Test Mode | Mode 1: Transmit by 802.11b |
| Test Date | 2009-07-31                  |

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 01          | 2412            | 11700                   | 500                  | Pass   |
| 06          | 2437            | 11600                   | 500                  | Pass   |
| 11          | 2462            | 11100                   | 500                  | Pass   |

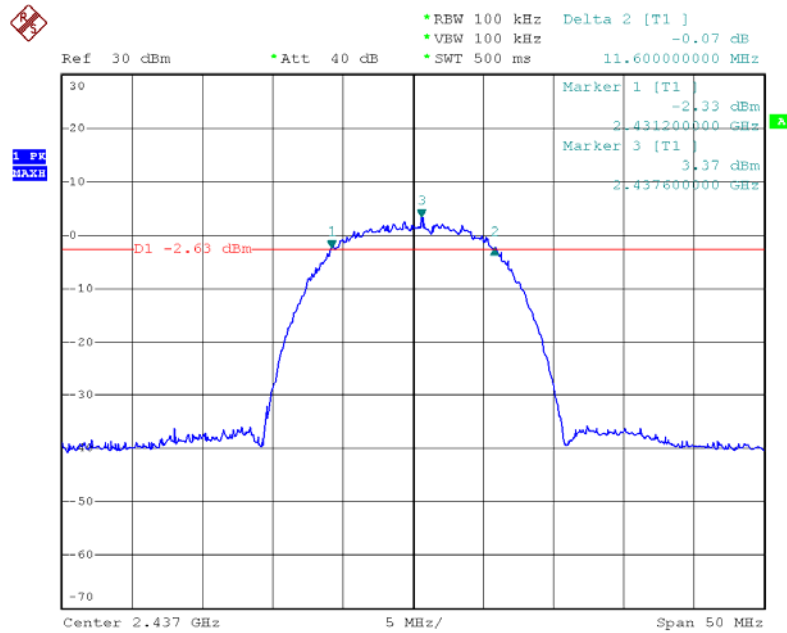
Channel 01 (2412MHz)



Date: 1.JAN.2003 05:49:03

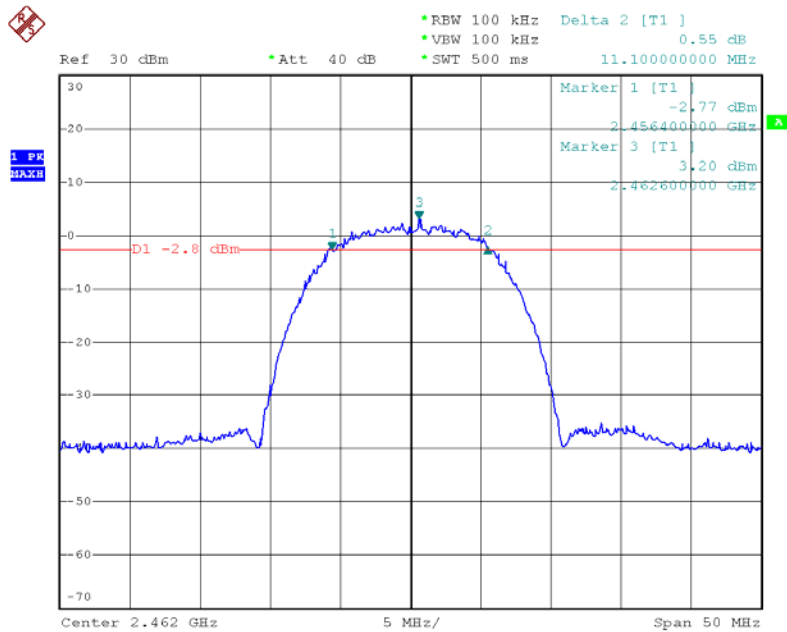


### Channel 06 (2437MHz)



Date: 1.JAN.2003 05:47:15

### Channel 11 (2462MHz)

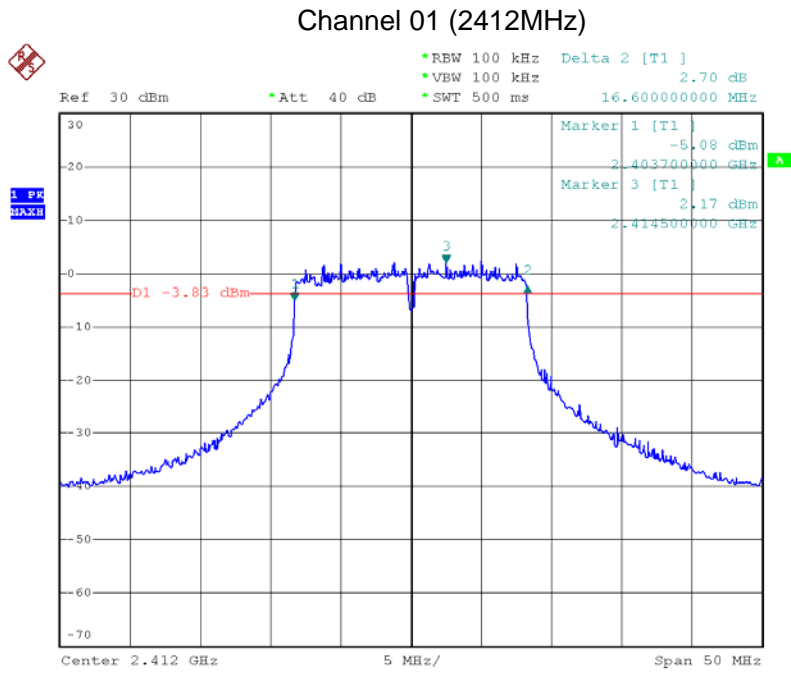


Date: 1.JAN.2003 05:45:20



|           |                             |
|-----------|-----------------------------|
| Test Item | Occupied Bandwidth          |
| Test Mode | Mode 2: Transmit by 802.11g |
| Test Date | 2009-07-31                  |

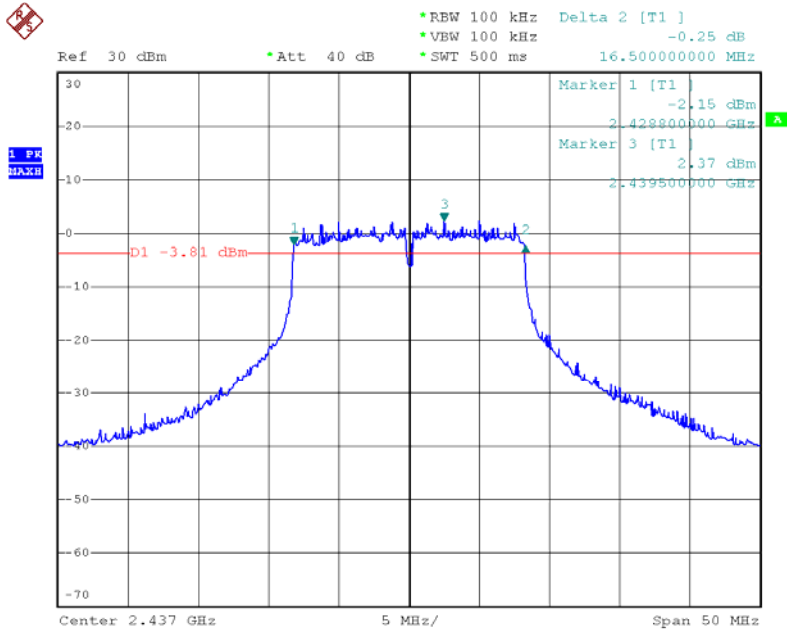
| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 01          | 2412            | 16600                   | 500                  | Pass   |
| 06          | 2437            | 16500                   | 500                  | Pass   |
| 11          | 2462            | 16500                   | 500                  | Pass   |



Date: 1.JAN.2003 05:50:37

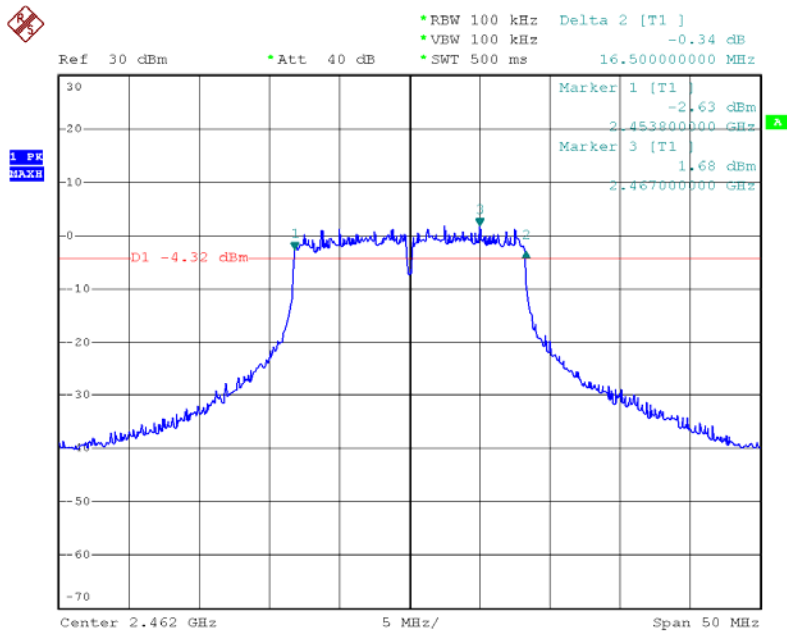


### Channel 06 (2437MHz)



Date: 1.JAN.2003 05:52:16

### Channel 11 (2462MHz)



Date: 1.JAN.2003 05:54:10



## 6. Maximum Peak Output Power

### 6.1. Test Limit

The maximum peak power shall be less 1Watt (30dBm).

The conducted output power limit is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of standard FCC part 15.247, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6 dBi.

### 6.2. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

In the following, "T" is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal parameters. Set resolution bandwidth (RBW) = 1 MHz. Set span to encompass the entire emission bandwidth (EBW) of the signal. Use automatic setting for analyzer sweep time (except in Method #2). Check the sweep time to determine which procedure to use.

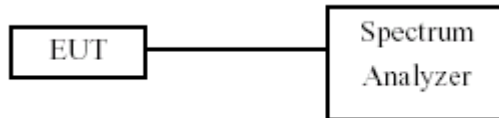
As "T"  $\geq$  sweep time, the test procedure will be used as following:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW  $\geq$  3 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to "free run".
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges or by summing power



levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

### 6.3. Test Setup Layout



### 6.4. Measurement Equipment

| Instrument/Ancillary           | Model No. | Manufacturer | Serial No. | Calibration Date |
|--------------------------------|-----------|--------------|------------|------------------|
| Spectrum Analyzer              | R&S       | FSP40        | 100324     | 2008.09.28       |
| Temperature/<br>Humidity Meter | Zhicheng  | ZC1-11       | CEP-TH-002 | 2008.10.10       |



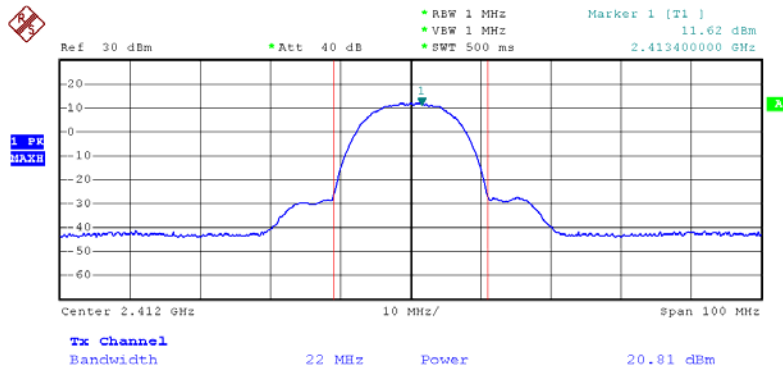


6.5. Test Result and Data

|           |                             |
|-----------|-----------------------------|
| Test Item | Maximum Peak Output Power   |
| Test Mode | Mode 1: Transmit by 802.11b |
| Test Date | 2009-07-31                  |

| Channel No. | Frequency (MHz) | Measurement (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|-------------------|----------------------|--------|
| 01          | 2412            | 20.81             | 30 dBm               | Pass   |
| 06          | 2437            | 20.76             | 30 dBm               | Pass   |
| 11          | 2462            | 20.07             | 30 dBm               | Pass   |

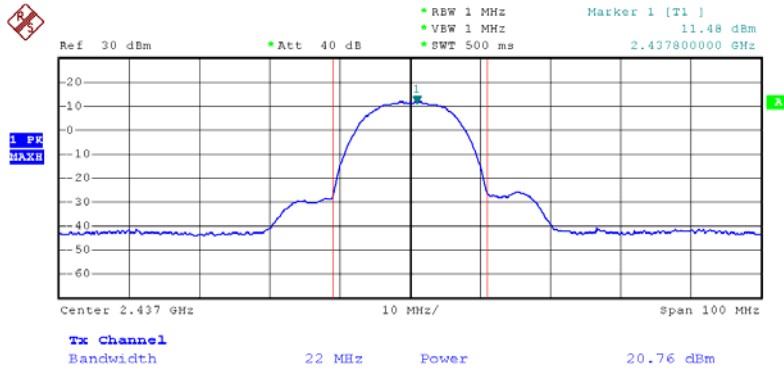
Channel 01 (2412MHz)



Date: 1.JAN.2003 01:08:11

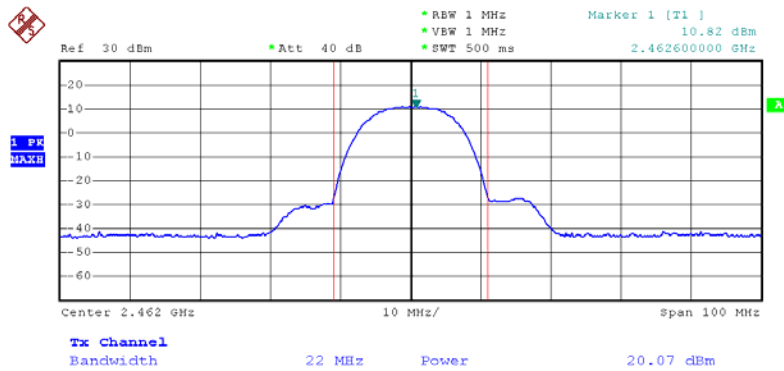


### Channel 06 (2437MHz)



Date: 1.JAN.2003 04:05:57

### Channel 11 (2462MHz)



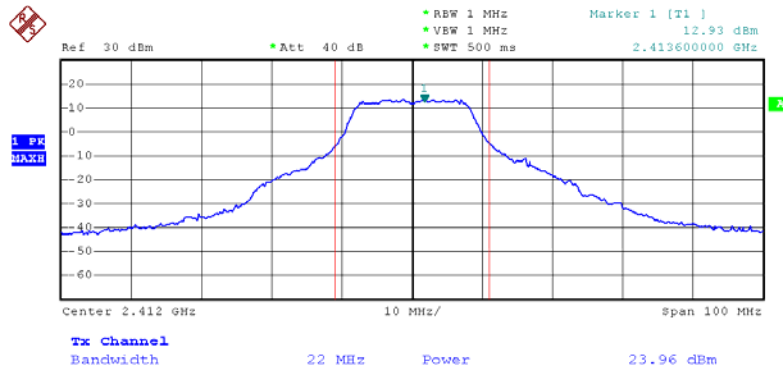
Date: 1.JAN.2003 04:06:43



|           |                             |
|-----------|-----------------------------|
| Test Item | Maximum Peak Output Power   |
| Test Mode | Mode 2: Transmit by 802.11g |
| Test Date | 2009-07-31                  |

| Channel No. | Frequency (MHz) | Measurement (dBm) | Required Limit (dBm) | Result |
|-------------|-----------------|-------------------|----------------------|--------|
| 01          | 2412            | 23.96             | 30 dBm               | Pass   |
| 06          | 2437            | 23.96             | 30 dBm               | Pass   |
| 11          | 2462            | 23.41             | 30 dBm               | Pass   |

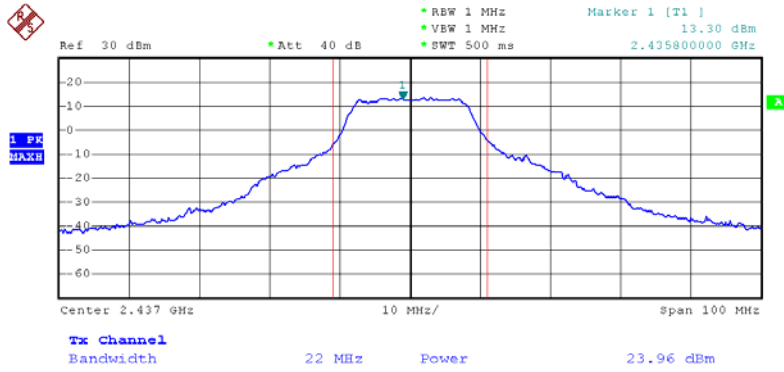
Channel 01 (2412MHz)



Date: 1.JAN.2003 01:14:05

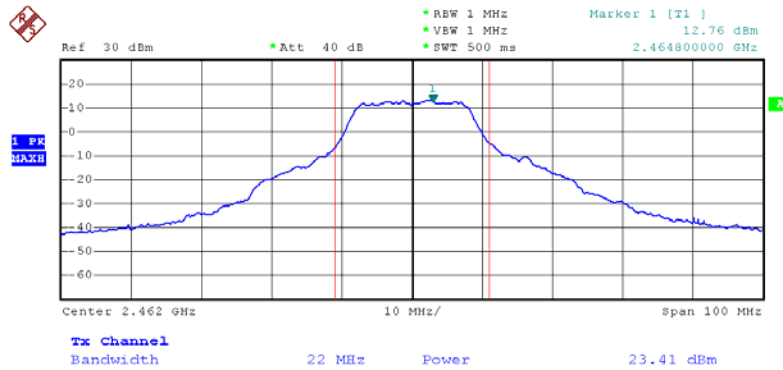


### Channel 06 (2437MHz)



Date: 1.JAN.2003 04:13:08

### Channel 11 (2462MHz)



Date: 1.JAN.2003 04:14:27



## 7. Band Edges

### 7.1. Test Limit

**For RF Conducted requirement:**

20 dB bandwidth of the emission is contained within the operation frequency band.

**For RF Radiated requirement:**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 7.2. Test Procedure

**For RF Conducted Measurement:**

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

**For RF Radiated Measurement:**

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

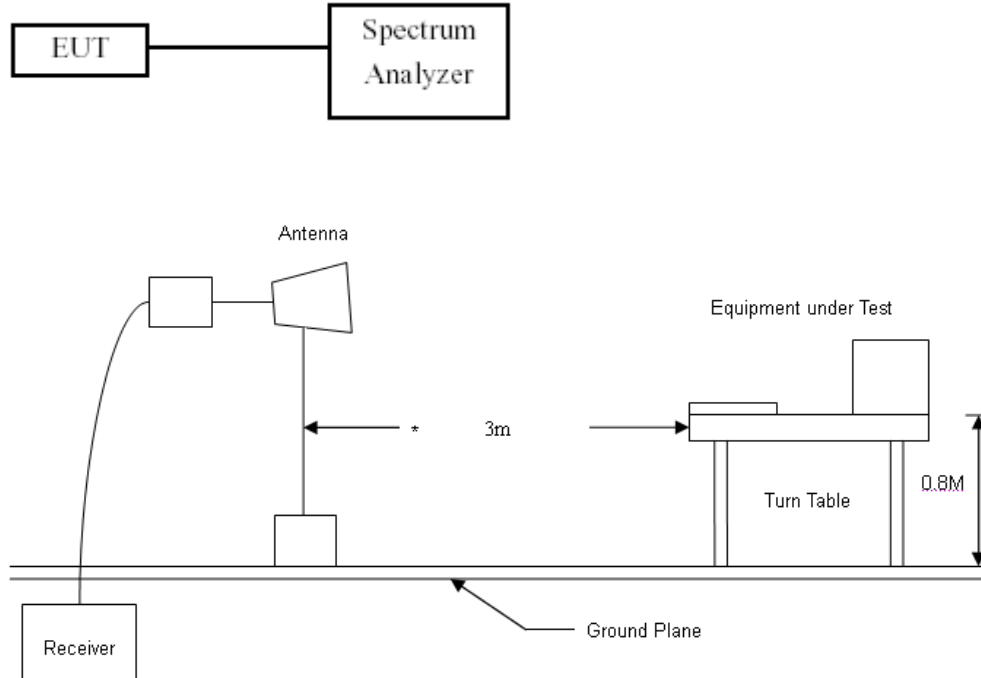
For measurements above 1GHz the resolution bandwidth is set to 1MHz, then the video bandwidth is set to 1MHz for peak measurements and 10Hz for average measurements.

The spectrum from 30MHz to 26GHz is investigated with the transmitter set to the lowest, middle and highest channels in the 2.4GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are Made with the antenna polarized in both the vertical and the horizontal positions.



### 7.3. Test Setup Layout



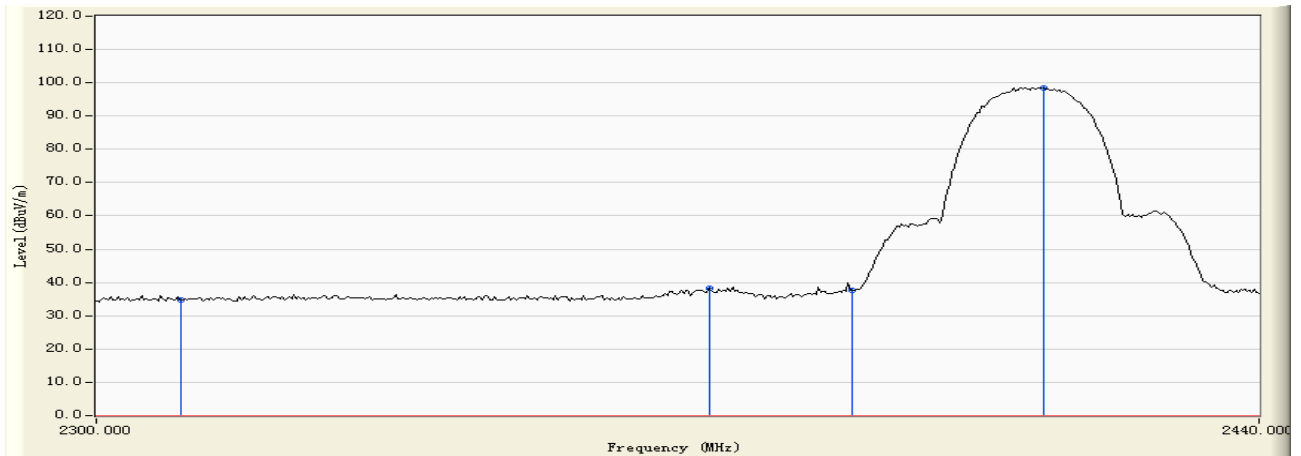
### 7.4. Measurement Equipment

| Instrument/Ancillary           | Model No.   | Manufacturer | Serial No.    | Calibration Date |
|--------------------------------|-------------|--------------|---------------|------------------|
| Spectrum Analyzer              | R&S         | FSP40        | 100324        | 2008.09.28       |
| Temperature/<br>Humidity Meter | Zhicheng    | ZC1-11       | CEP-TH-002    | 2008.10.10       |
| Preamplifier                   | Agilent     | 87405B       | My39500553    | 2008.11.04       |
| Preamplifier                   | Agilent     | 8449B        | ED-HE-EMI-077 | 2009.02.18       |
| Ultra Broadband<br>Antenna     | Schwarzbeck | BBHA9120D    | 100363        | 2008.09.26       |
| Temperature/<br>Humidity Meter | Zhicheng    | ZC1-11       | CEP-TH-002    | 2008.10.10       |



### 7.5. Test Result and Data

|                      |   |
|----------------------|---|
| Engineer : Fred      |   |
| Site : EMC Lab AC102 | Time : 2009/07/30 - 16:48                     |
| EUT : P-2612HWU-F1   | Probe : BBHA9120D(1000-18000MHz) - HORIZONTAL |
| Power : AC120V/60Hz  | Note : Transmitter by 802.11b 2412MHz         |



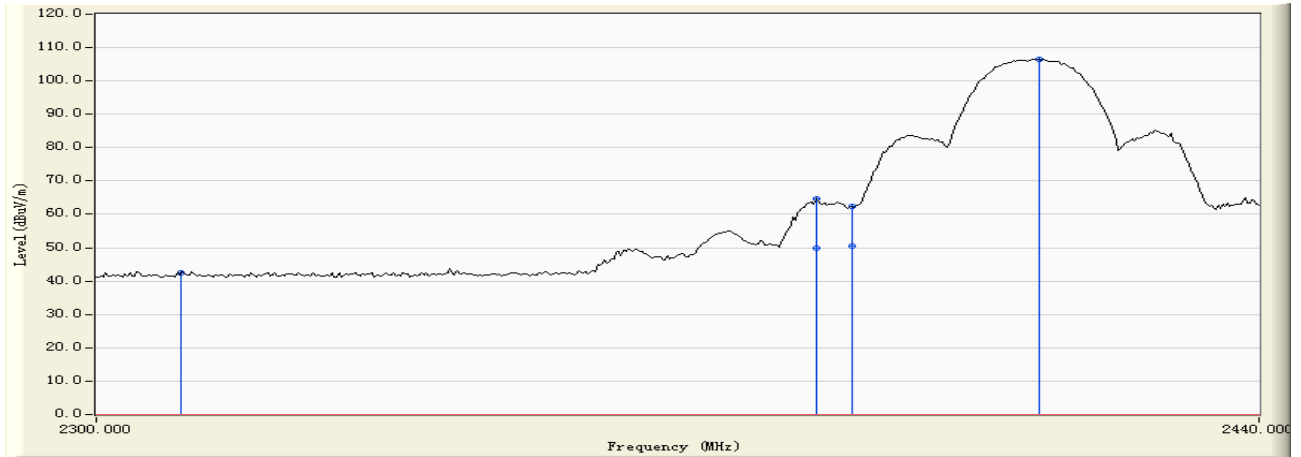
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2310.000        | -13.868             | 48.717               | 34.849                 | 39.151      | 74             | PEAK          |
| 2 |   | 2372.800        | -13.626             | 51.949               | 38.323                 | 35.677      | 74             | PEAK          |
| 3 |   | 2390.000        | -13.552             | 51.171               | 37.619                 | 36.381      | 74             | PEAK          |
| 4 | * | 2413.400        | -13.451             | 112.008              | 98.558                 | -24.558     | 74             | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                      |   |
|----------------------|---|
| Engineer : Fred      |   |
| Site : EMC Lab AC102 | Time : 2009/07/30 - 16:51                   |
| EUT : P-2612HWU-F1   | Probe : BBHA9120D(1000-18000MHz) - VERTICAL |
| Power : AC120V/60Hz  | Note : Transmitter by 802.11b 2412MHz       |



|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2310.000        | -13.868             | 56.303               | 42.435                 | 31.565      | 74             | PEAK          |
| 2 |   | 2385.680        | -13.570             | 78.222               | 64.651                 | 9.349       | 74             | PEAK          |
| 3 |   | 2385.680        | -13.570             | 63.571               | 50.000                 | 4           | 54             | AVERAGE       |
| 4 |   | 2390.000        | -13.552             | 75.812               | 62.260                 | 11.74       | 74             | PEAK          |
| 5 |   | 2390.000        | -13.552             | 63.952               | 50.400                 | 3.6         | 54             | AVERAGE       |
| 6 | * | 2412.840        | -13.453             | 120.011              | 106.558                | -32.558     | 74             | PEAK          |

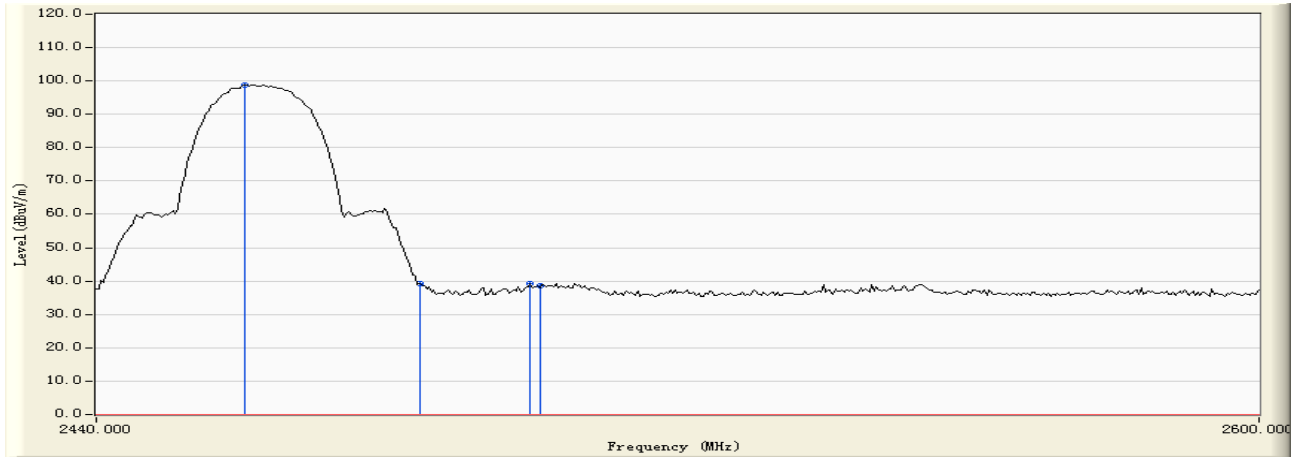
Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor





|                      |   |
|----------------------|---|
| Engineer : Fred      |   |
| Site : EMC Lab AC102 | Time : 2009/07/30 - 17:00                     |
| EUT : P-2612HWU-F1   | Probe : BBHA9120D(1000-18000MHz) - HORIZONTAL |
| Power : AC120V/60Hz  | Note : Transmitter by 802.11b 2462MHz         |



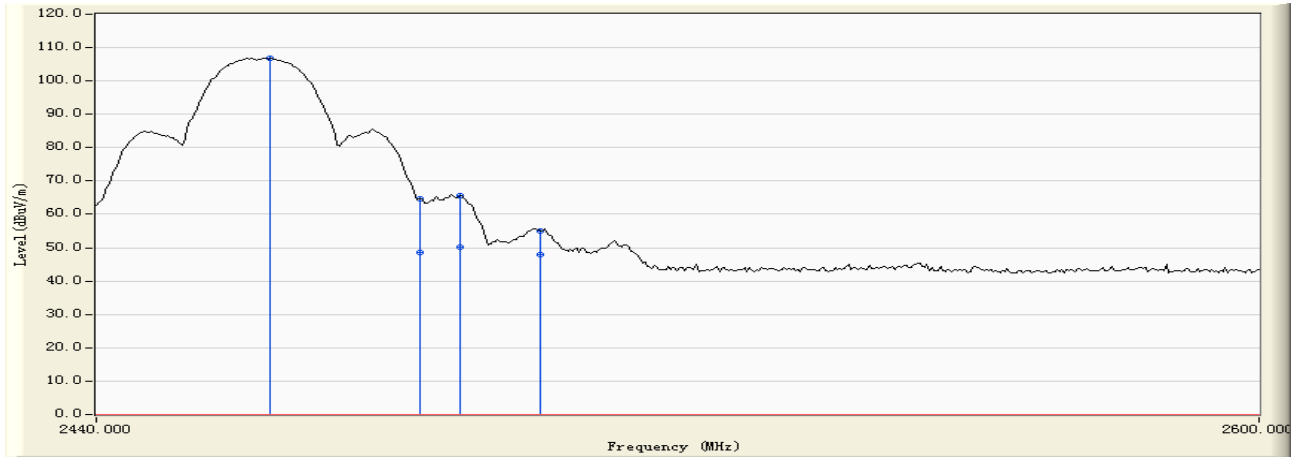
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2459.840        | -13.258             | 112.035              | 98.777                 | -24.777     | 74             | PEAK          |
| 2 |   | 2483.500        | -13.158             | 52.347               | 39.188                 | 34.812      | 74             | PEAK          |
| 3 |   | 2498.560        | -13.092             | 52.364               | 39.271                 | 34.729      | 74             | PEAK          |
| 4 |   | 2500.000        | -13.090             | 51.556               | 38.466                 | 35.534      | 74             | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                      |   |
|----------------------|---|
| Engineer : Fred      |   |
| Site : EMC Lab AC102 | Time : 2009/07/30 - 16:58                   |
| EUT : P-2612HWU-F1   | Probe : BBHA9120D(1000-18000MHz) - VERTICAL |
| Power : AC120V/60Hz  | Note : Transmitter by 802.11b 2462MHz       |



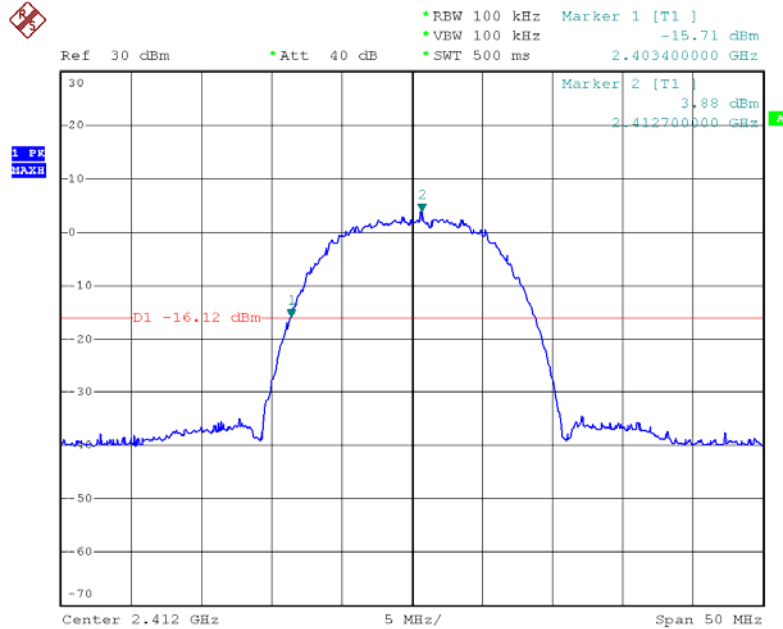
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2463.360        | -13.245             | 120.060              | 106.815                | -32.815     | 74             | PEAK          |
| 2 |   | 2483.500        | -13.158             | 77.822               | 64.663                 | 9.337       | 74             | PEAK          |
| 3 |   | 2483.500        | -13.158             | 61.859               | 48.700                 | 5.3         | 54             | AVERAGE       |
| 4 |   | 2488.900        | -13.133             | 63.233               | 50.100                 | 3.9         | 54             | AVERAGE       |
| 5 |   | 2488.960        | -13.133             | 78.672               | 65.539                 | 8.461       | 74             | PEAK          |
| 6 |   | 2500.000        | -13.090             | 68.100               | 55.010                 | 18.99       | 74             | PEAK          |
| 7 |   | 2500.000        | -13.090             | 60.890               | 47.800                 | 6.2         | 54             | AVERAGE       |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

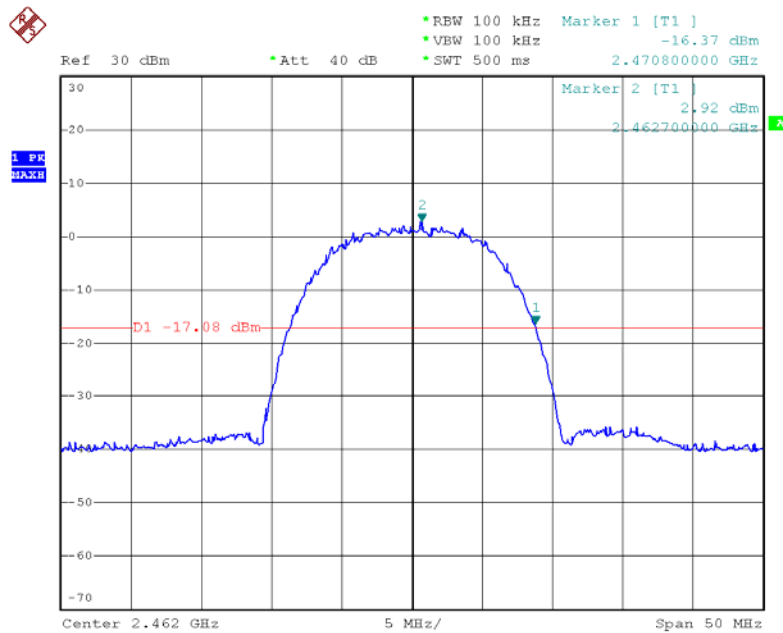


### Band Edge (20dBc RF Conducted Measurement) Mode 1: Transmit by 802.11b (2412MHz)



Date: 1.JAN.2003 05:38:03

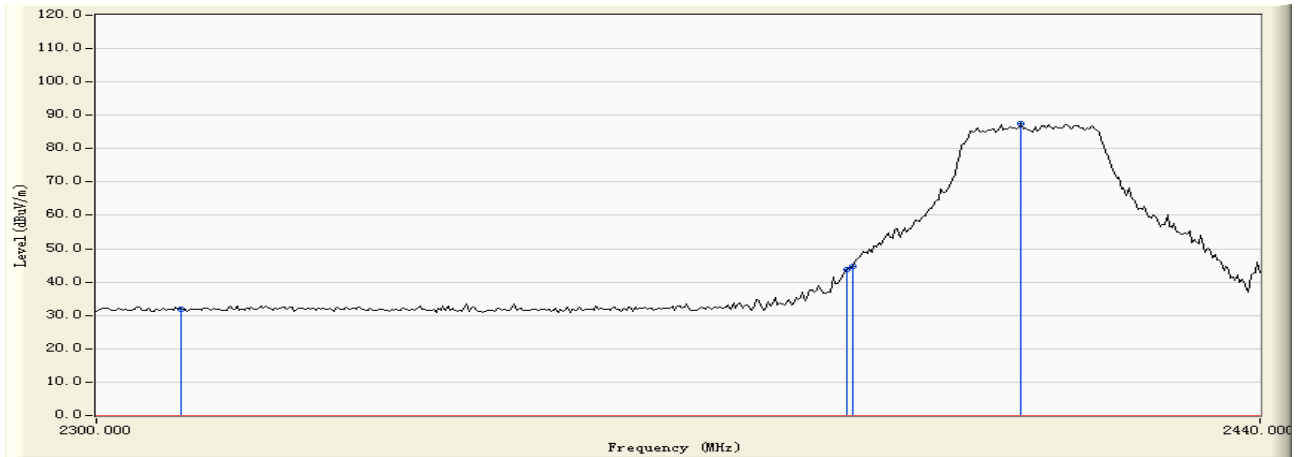
### Band Edge (20dBc RF Conducted Measurement) Mode 3: Transmit by 802.11b (2462MHz)



Date: 1.JAN.2003 05:39:18



|                      |   |
|----------------------|---|
| Engineer : Fred      |   |
| Site : EMC Lab AC102 | Time : 2009/07/30 - 17:43                     |
| EUT : P-2612HWU-F1   | Probe : BBHA9120D(1000-18000MHz) - HORIZONTAL |
| Power : AC120V/60Hz  | Note : Transmitter by 802.11g 2412MHz         |



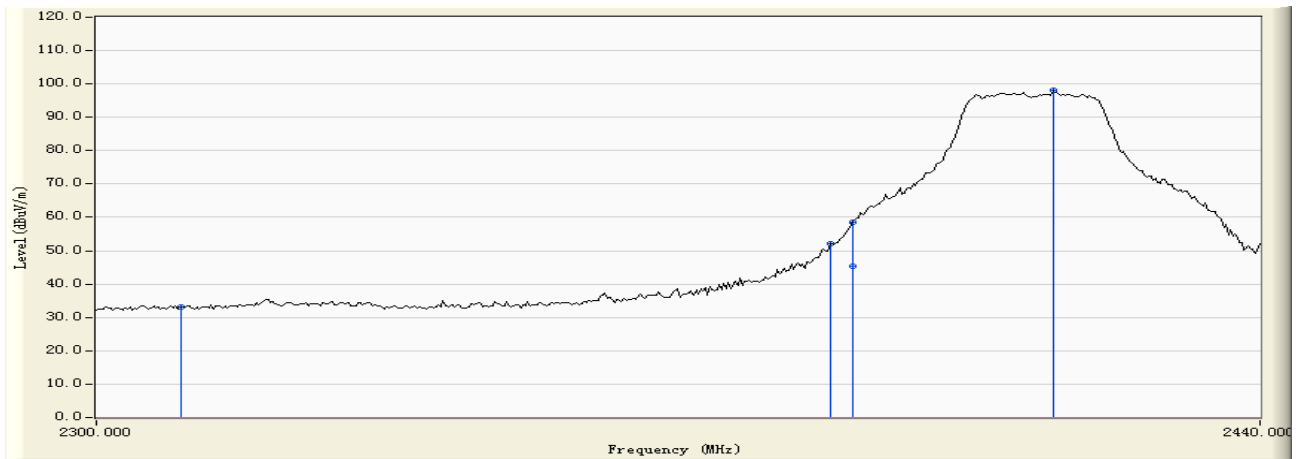
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2310.000        | -13.868             | 45.855               | 31.987                 | 42.013      | 74             | PEAK          |
| 2 |   | 2389.320        | -13.556             | 57.352               | 43.797                 | 30.203      | 74             | PEAK          |
| 3 |   | 2390.000        | -13.552             | 58.315               | 44.763                 | 29.237      | 74             | PEAK          |
| 4 | * | 2410.600        | -13.461             | 101.034              | 87.572                 | -13.572     | 74             | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                      |   |
|----------------------|---|
| Engineer : Fred      |   |
| Site : EMC Lab AC102 | Time : 2009/07/30 - 17:41                   |
| EUT : P-2612HWU-F1   | Probe : BBHA9120D(1000-18000MHz) - VERTICAL |
| Power : AC120V/60Hz  | Note : Transmitter by 802.11g 2412MHz       |



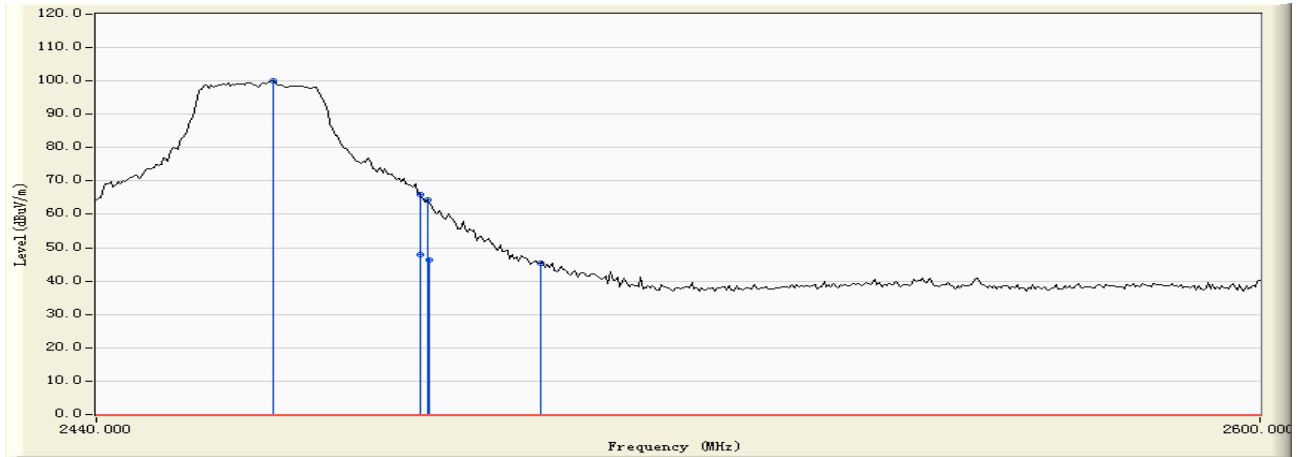
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 |   | 2310.000        | -13.868             | 46.867               | 32.999                 | 41.001      | 74             | PEAK          |
| 2 |   | 2387.360        | -13.563             | 65.610               | 52.046                 | 21.954      | 74             | PEAK          |
| 3 |   | 2390.000        | -13.552             | 71.953               | 58.401                 | 15.599      | 74             | PEAK          |
| 4 |   | 2390.000        | -13.552             | 58.852               | 45.300                 | 8.7         | 54             | AVERAGE       |
| 5 | * | 2414.520        | -13.445             | 111.440              | 97.996                 | -23.996     | 74             | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                      |   |
|----------------------|---|
| Engineer : Fred      |   |
| Site : EMC Lab AC102 | Time : 2009/07/30 - 17:02                     |
| EUT : P-2612HWU-F1   | Probe : BBHA9120D(1000-18000MHz) - HORIZONTAL |
| Power : AC120V/60Hz  | Note : Transmitter by 802.11g 2462MHz         |



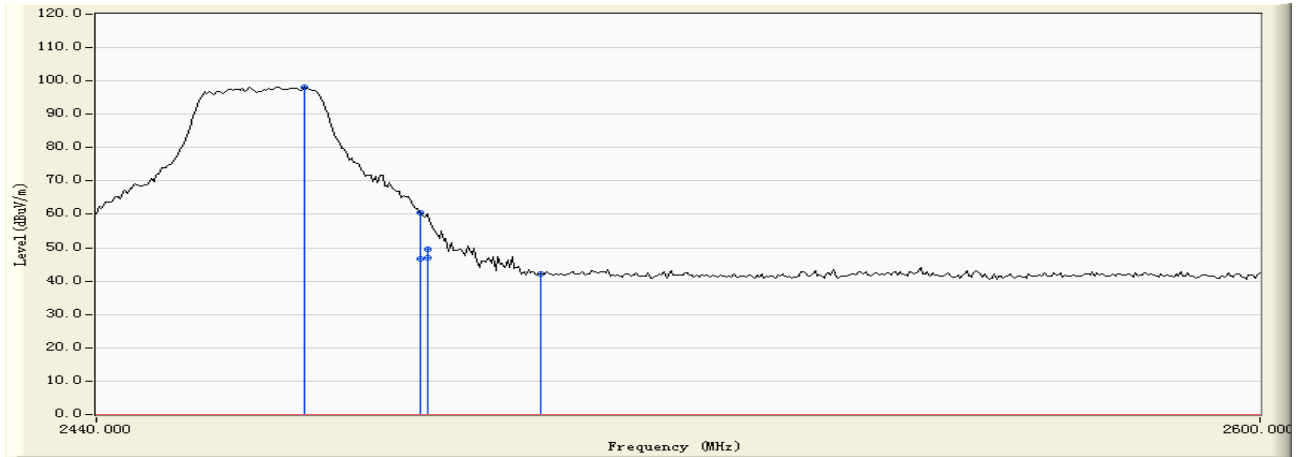
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2463.680        | -13.244             | 113.195              | 99.951                 | -25.951     | 74             | PEAK          |
| 2 |   | 2483.500        | -13.158             | 79.110               | 65.951                 | 8.049       | 74             | PEAK          |
| 3 |   | 2483.500        | -13.158             | 61.139               | 47.980                 | 6.02        | 54             | AVERAGE       |
| 4 |   | 2484.480        | -13.155             | 77.551               | 64.396                 | 9.604       | 74             | PEAK          |
| 5 |   | 2484.800        | -13.154             | 59.454               | 46.300                 | 7.7         | 54             | AVERAGE       |
| 6 |   | 2500.000        | -13.090             | 58.534               | 45.444                 | 28.556      | 74             | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor



|                      |   |
|----------------------|---|
| Engineer : Fred      |   |
| Site : EMC Lab AC102 | Time : 2009/07/30 - 17:38                   |
| EUT : P-2612HWU-F1   | Probe : BBHA9120D(1000-18000MHz) - VERTICAL |
| Power : AC120V/60Hz  | Note : Transmitter by 802.11g 2462MHz       |



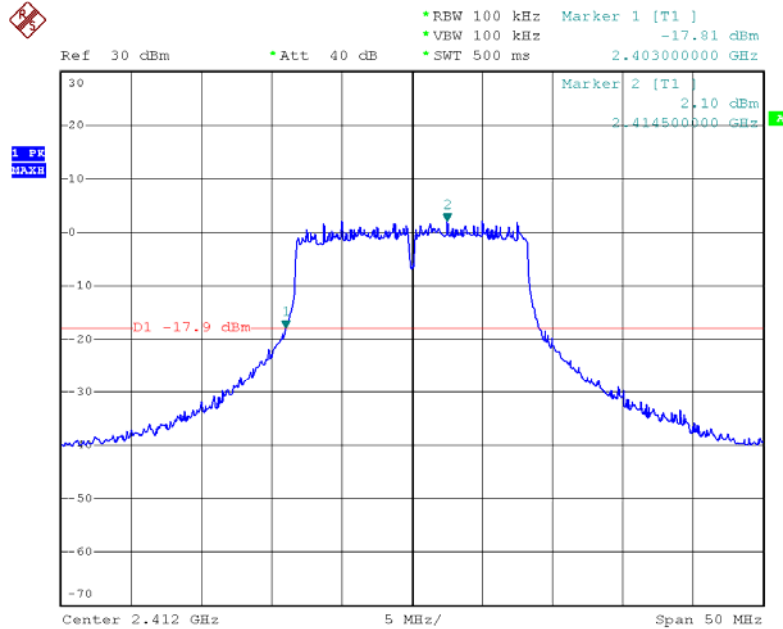
|   |   | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 2467.840        | -13.228             | 111.399              | 98.171                 | -24.171     | 74             | PEAK          |
| 2 |   | 2483.500        | -13.158             | 73.699               | 60.540                 | 13.46       | 74             | PEAK          |
| 3 |   | 2483.500        | -13.158             | 59.959               | 46.800                 | 7.2         | 54             | AVERAGE       |
| 4 |   | 2484.480        | -13.155             | 62.655               | 49.500                 | 4.5         | 54             | AVERAGE       |
| 5 |   | 2484.480        | -13.155             | 60.055               | 46.900                 | 27.1        | 74             | PEAK          |
| 6 |   | 2500.000        | -13.090             | 55.156               | 42.066                 | 31.934      | 74             | PEAK          |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " \* ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

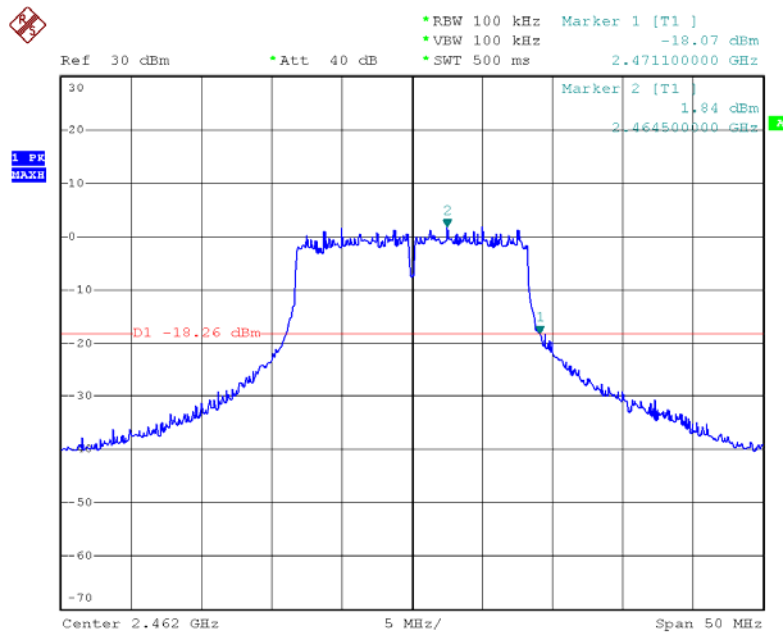


### Band Edge (20dBc RF Conducted Measurement) Mode 4: Transmit by 802.11g (2412MHz)



Date: 1.JAN.2003 05:35:18

### Band Edge (20dBc RF Conducted Measurement) Mode 6: Transmit by 802.11g (2462MHz)



Date: 1.JAN.2003 05:33:56





## 8. Power Spectral Density

### 8.1. Test Limit

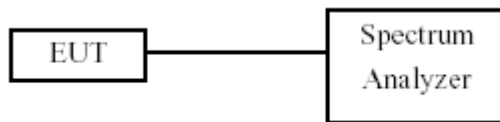
For digitally modulated systems, the power spectral density conducted from the intentional radiated to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 8.2. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, Set VBW $\geq$  9 kHz, Sweep time=Auto, Set detector=Peak detector.

### 8.3. Test Setup Layout



### 8.4. Measurement Equipment

| Instrument/Ancillary           | Model No. | Manufacturer | Serial No. | Calibration Date |
|--------------------------------|-----------|--------------|------------|------------------|
| Spectrum Analyzer              | R&S       | FSP40        | 100324     | 2008.09.28       |
| Temperature/<br>Humidity Meter | Zhicheng  | ZC1-11       | CEP-TH-002 | 2008.10.10       |

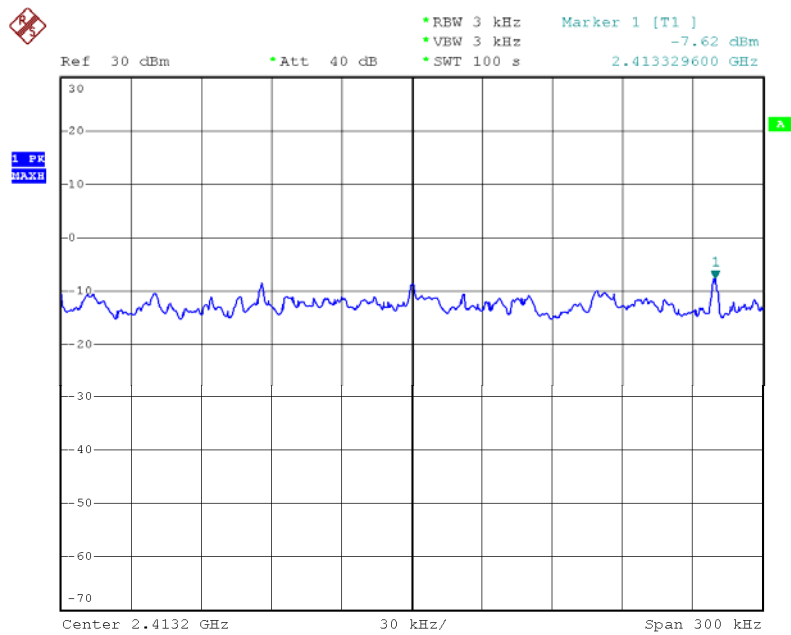


### 8.5. Test Result and Data

|           |                             |
|-----------|-----------------------------|
| Test Item | Power Spectral Density      |
| Test Mode | Mode 1: Transmit by 802.11b |
| Test Date | 2009-08-01                  |

| Channel | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|---------|-----------------|-----------------------------------|------------------|--------|
| 01      | 2412            | -7.62                             | 8                | Pass   |
| 06      | 2437            | -7.81                             | 8                | Pass   |
| 11      | 2462            | -10.56                            | 8                | Pass   |

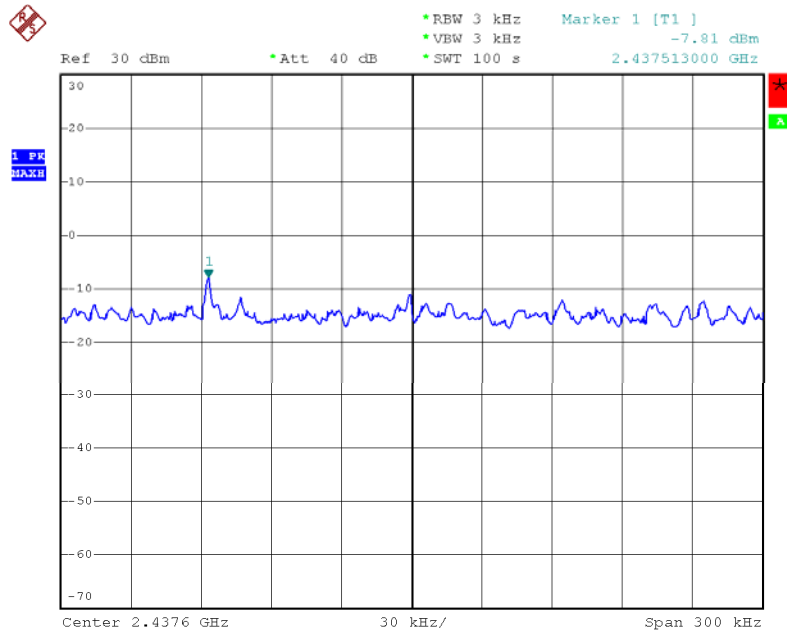
Channel 01 (2412MHz)



Date: 1.JAN.2003 04:39:33

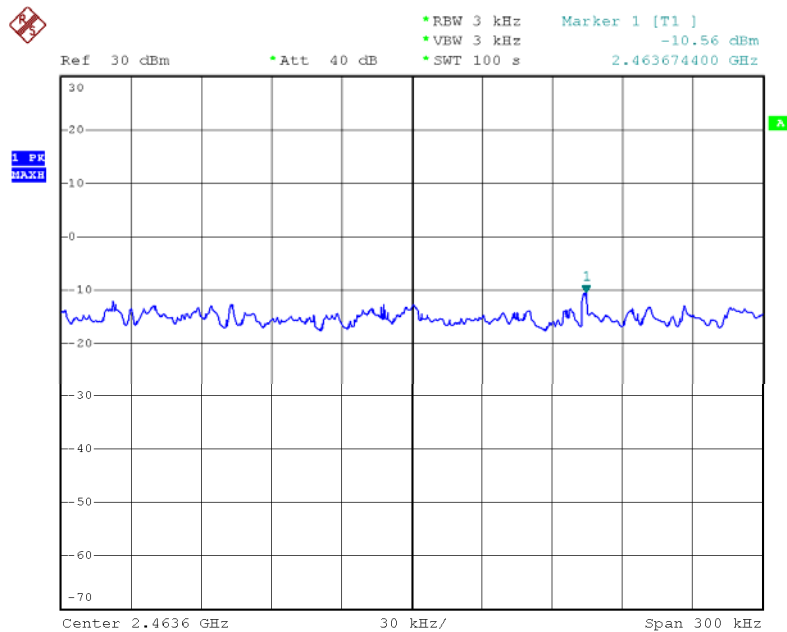


### Channel 06 (2437MHz)



Date: 1.JAN.2003 04:43:53

### Channel 11 (2462MHz)



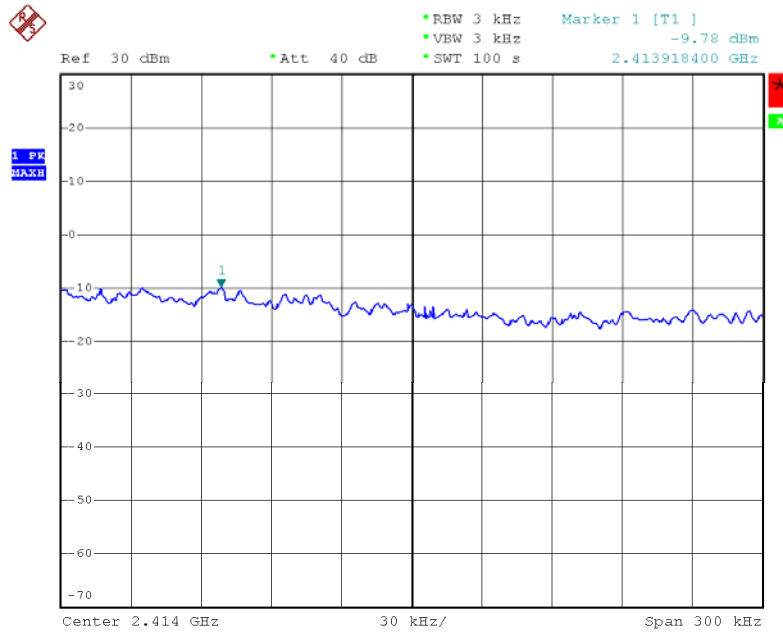
Date: 1.JAN.2003 04:48:18



|           |                             |
|-----------|-----------------------------|
| Test Item | Power Spectral Density      |
| Test Mode | Mode 2: Transmit by 802.11g |
| Test Date | 2009-08-01                  |

| Channel | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|---------|-----------------|-----------------------------------|------------------|--------|
| 01      | 2412            | -9.78                             | 8                | Pass   |
| 06      | 2437            | -9.94                             | 8                | Pass   |
| 11      | 2462            | -9.75                             | 8                | Pass   |

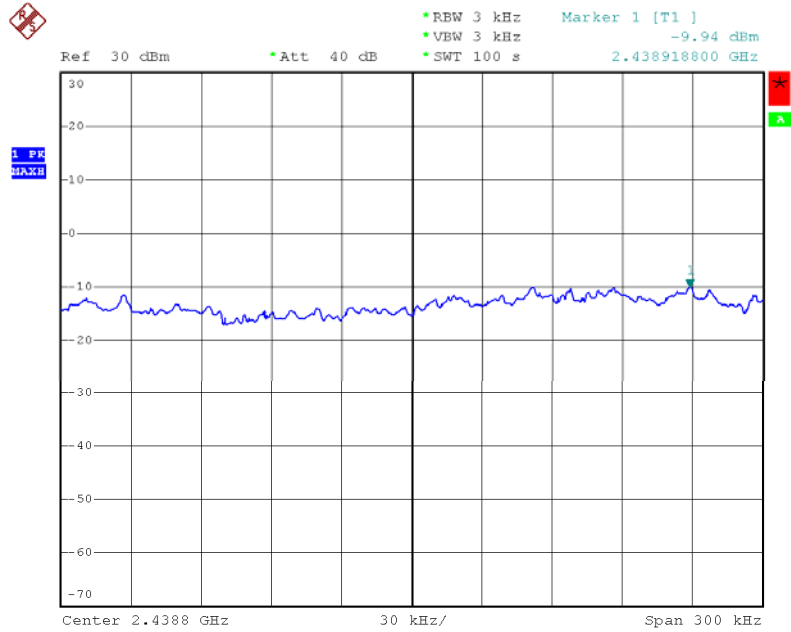
Channel 01 (2412MHz)



Date: 1.JAN.2003 04:33:25

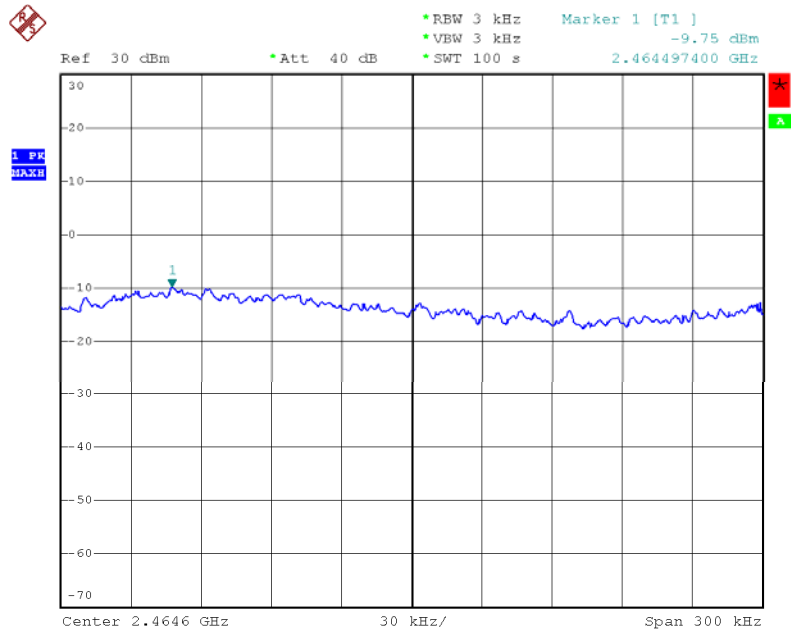


### Channel 06 (2437MHz)



Date: 1.JAN.2003 04:29:16

### Channel 11 (2462MHz)



Date: 1.JAN.2003 04:24:19