



FCC TEST REPORT

REPORT NO.: RF950329L08

MODEL NO.: WN511T

RECEIVED: Mar. 23, 2006

TESTED: Mar. 23, ~ Mar. 29, 2006

ISSUED: Mar. 30, 2006

APPLICANT: Netgear Incorporated

ADDRESS: 4500 Great America Parkway Santa Clara,
CA 95054, U.S.A.

ISSUED BY: Advance Data Technology Corporation

LAB ADDRESS: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan,
R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Kueishan, Taoyuan,
Taiwan, R.O.C.

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No. 2177-01



0528



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1. CERTIFICATION

PRODUCT : RangeMax Next Wireless PC Card
MODEL NO.: WN511T
BRAND: NETGEAR
APPLICANT : Netgear Incorporated
TESTED: Mar. 23, ~ Mar. 29, 2006
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS : FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-2003

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Wendy Liao, **DATE:** Mar. 30, 2006
Wendy Liao

TECHNICAL ACCEPTANCE : Long Chen, **DATE:** Mar. 30, 2006
Responsible for RF Long Chen

APPROVED BY : Gary Chang, **DATE:** Mar. 30, 2006
Gary Chang / Supervisor

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC Part 15, Subpart C | | | |
|--|--|--------|---|
| STANDARD SECTION | TEST TYPE AND LIMIT | RESULT | REMARK |
| 15.207 | AC Power Conducted Emission | PASS | Meet the requirement of limit. Minimum passing margin is -16.36dB at 0.216MHz. |
| 15.247(a)(2) | Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit : min. 500kHz | PASS | Meet the requirement of limit. |
| 15.247(b) | Maximum Peak Output Power Limit: max. 30dBm | PASS | Meet the requirement of limit. |
| 15.247(d) | Transmitter Radiated Emissions Limit: Table 15.209 | PASS | Meet the requirement of limit. Minimum passing margin is -1.26dB at 2390.00MHz. |
| 15.247(e) | Power Spectral Density Limit: max. 8dBm | PASS | Meet the requirement of limit. |
| 15.247(d) | Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency | PASS | Meet the requirement of limit. |

2.1 MEASUREMENT UNCERTAINTY

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

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|---------------------|------------------|-------------|
| Conducted emissions | 9kHz ~ 30MHz | 2.44dB |
| Radiated emissions | 30MHz ~ 200MHz | 3.73dB |
| | 200MHz ~ 1000MHz | 3.74dB |
| | 1GHz ~ 18GHz | 2.20dB |
| | 18GHz ~ 40GHz | 1.88dB |

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|------------------------------|--|
| PRODUCT | RangeMax Next Wireless PC Card |
| MODEL NO. | WN511T |
| FCC ID | PY306100040 |
| POWER SUPPLY | 3.3Vdc from host equipment |
| MODULATION TYPE | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM |
| MODULATION TECHNOLOGY | DSSS, OFDM |
| TRANSFER RATE | 802.11b: 11/ 5.5/ 2/ 1Mbps 802.11g: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6Mbps Draft 802.11n (20MHz): 144.444/ 130.000/ 115.556/ 86.667/ 57.778/ 43.333/ 28.889/ 14.444/ 72.2/ 65.0/ 57.8/ 43.3/ 28.9/ 21.7/ 14.4/ 7.2Mbps Draft 802.11n (40MHz): 300/ 270/ 240/ 180/ 120/ 90/ 60/ 30/ 150/ 135/ 120/ 90/ 60/ 45/ 30/ 15Mbps |
| FREQUENCY RANGE | 2412MHz ~ 2462MHz |
| NUMBER OF CHANNEL | 11 for 802.11b, 802.11g, draft 802.11n (20MHz) 7 for draft 802.11n (40MHz) |
| MAXIMUM OUTPUT POWER | 36.141mW |
| ANTENNA TYPE | Printed antenna with 3.6dBi gain |
| DATA CABLE | NA |
| I/O PORTS | NA |

NOTE:

1. The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmit and three receivers.
2. The EUT is 2 * 3 spatial MIMO (2Tx & 3Rx) without beam forming function that only operate dual chain configuration (both chain 0 and chain 1 transceivers are operational).
3. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, only set 0 ~ 7 of "MCS" (MCS: Modulation and Coding Schemes) for single Tx, 8 ~ 15 for dual Tx.
4. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
5. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps.
6. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

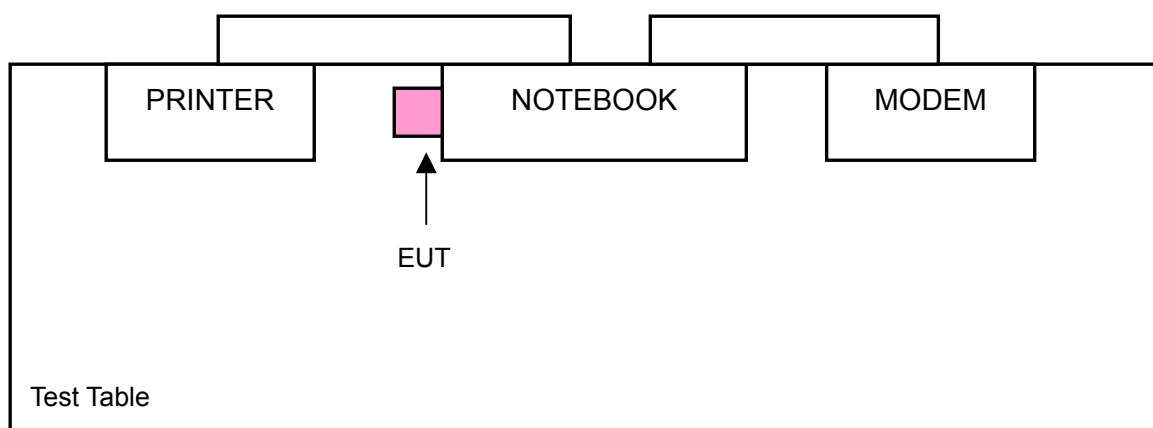
Eleven channels are provided for 802.11b, 802.11g, draft 802.11n (20MHz):

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

Seven channels are provided for draft 802.11n (40MHz):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 1 | 2422MHz | 5 | 2442MHz |
| 2 | 2427MHz | 6 | 2447MHz |
| 3 | 2432MHz | 7 | 2452MHz |
| 4 | 2437MHz | | |

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE MODE | APPLICABLE TO | | | | DESCRIPTION |
|--------------------|---------------|---------|---------|------|-------------|
| | PLC | RE < 1G | RE ≥ 1G | APCM | |
| - | √ | √ | √ | √ | - |

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

POWER LINE CONDUCTED EMISSION TEST:

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

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | TX CONDITION |
|-----------------------|-------------------|----------------|-----------------------|-----------------|------------------|--------------|
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 14.444 | Dual |
| Draft 802.11n (40MHz) | 1 to 7 | 1, 4, 7 | OFDM | BPSK | 30 | Dual |

RADIATED EMISSION TEST (BELOW 1 GHz):

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

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | TX CONDITION |
|-----------------------|-------------------|----------------|-----------------------|-----------------|------------------|--------------|
| 802.11g | 1 to 11 | 1 | OFDM | BPSK | 6 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1 | OFDM | BPSK | 7.2 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1 | OFDM | BPSK | 14.444 | Dual |
| Draft 802.11n (40MHz) | 1 to 7 | 1 | OFDM | BPSK | 15 | Single |
| Draft 802.11n (40MHz) | 1 to 7 | 1 | OFDM | BPSK | 30 | Dual |

RADIATED EMISSION TEST (ABOVE 1 GHz):

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

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | TX CONDITION |
|-----------------------|-------------------|----------------|-----------------------|-----------------|------------------|--------------|
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | DBPSK | 1 | Single |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 7.2 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 14.444 | Dual |
| Draft 802.11n (40MHz) | 1 to 7 | 1, 4, 7 | OFDM | BPSK | 15 | Single |
| Draft 802.11n (40MHz) | 1 to 7 | 1, 4, 7 | OFDM | BPSK | 30 | Dual |

BANDEDGE MEASUREMENT:

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

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | TX CONDITION |
|-----------------------|-------------------|----------------|-----------------------|-----------------|------------------|--------------|
| 802.11b | 1 to 11 | 1, 11 | DSSS | DBPSK | 1 | Single |
| 802.11g | 1 to 11 | 1, 11 | OFDM | BPSK | 6 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1, 11 | OFDM | BPSK | 7.2 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1, 11 | OFDM | BPSK | 14.444 | Dual |
| Draft 802.11n (40MHz) | 1 to 7 | 1, 7 | OFDM | BPSK | 15 | Single |
| Draft 802.11n (40MHz) | 1 to 7 | 1, 7 | OFDM | BPSK | 30 | Dual |

ANTENNA PORT CONDUCTED MEASUREMENT:

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

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | TX CONDITION |
|-----------------------|-------------------|----------------|-----------------------|-----------------|------------------|--------------|
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | DBPSK | 1 | Single |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 7.2 | Single |
| Draft 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 14.444 | Dual |
| Draft 802.11n (40MHz) | 1 to 7 | 1, 4, 7 | OFDM | BPSK | 15 | Single |
| Draft 802.11n (40MHz) | 1 to 7 | 1, 4, 7 | OFDM | BPSK | 30 | Dual |



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

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

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

3.4 DESCRIPTION OF SUPPORT UNITS

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

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|-------------------|-------|-----------|-------------|------------------|
| 1 | NOTEBOOK COMPUTER | DELL | PP05L | 12130898320 | E2K24CLNS |
| 2 | PRINTER | EPSON | LQ-300+ | DCGY047265 | FCC DoC Approved |
| 3 | MODEM | ACEEX | 1414V/3 | 0401008248 | IFAXDM1414 |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|-----|---|
| 1 | NA |
| 2 | NA |
| 3 | NA |

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



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|----------------------------------|-------------|----------------|------------------|
| Test Receiver ROHDE & SCHWARZ | ESCS30 | 100291 | Nov. 11, 2006 |
| RF signal cable Woken | 5D-FB | Cable-HYC01-01 | Jan. 06, 2007 |
| LISN SCHWARZBECK | NNBL 8226-2 | 8226-142 | May 02, 2006 |
| LISN ROHDE & SCHWARZ | ESH2-Z5 | 100104 | Feb. 07, 2007 |
| Software ADT | ADT_Cond_V3 | NA | NA |

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.

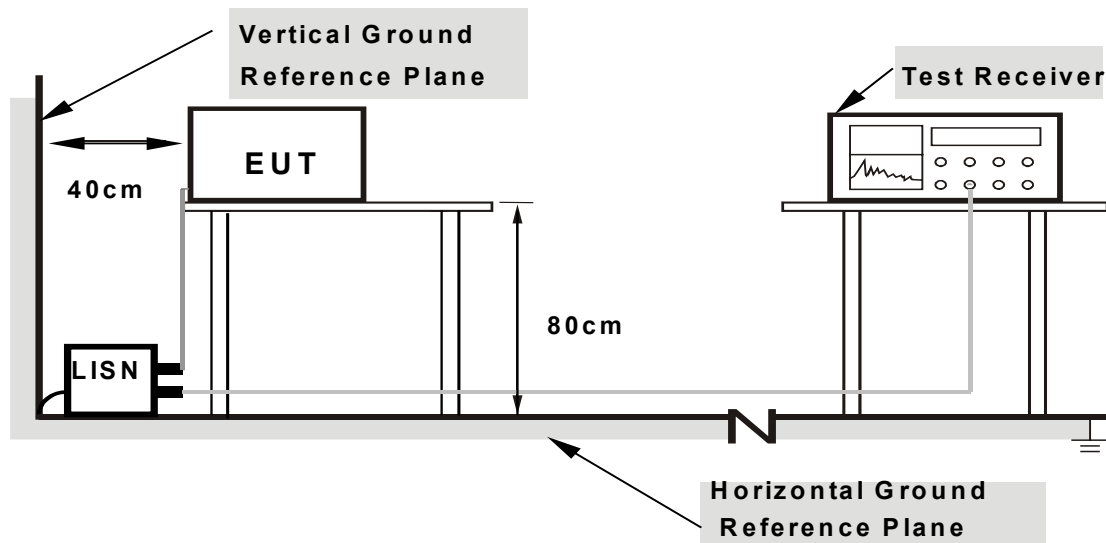
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT into the notebook system and placed on a testing table.
- b. The computer system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The notebook system displayed “H” messages on its screen.
- d. The notebook system show “H” messages to modem.
- e. The notebook system sent "H" messages to printer and the printer prints them on paper.
- f. Repeated item c ~e.

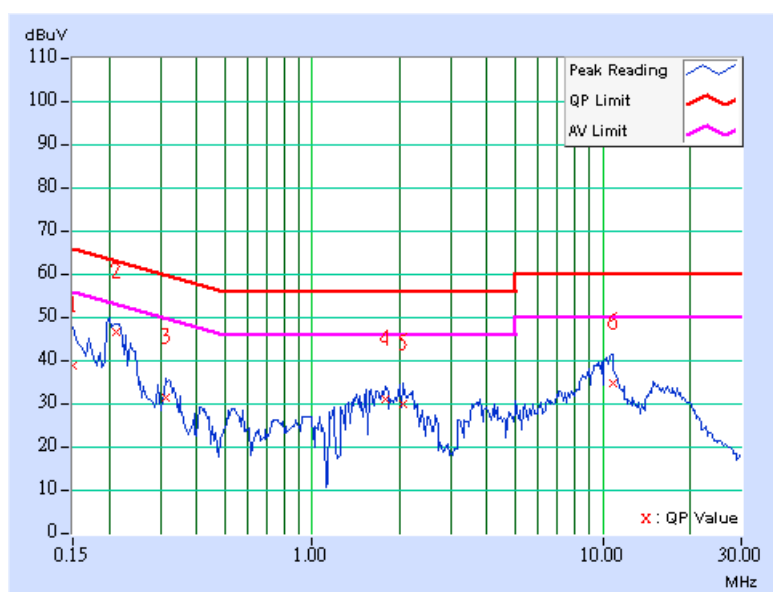
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11g OFDM MODULATION:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 6Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. | CORR. | READING VALUE | | EMISSION LEVEL | | LIMIT | | MARGIN | |
|----|--------|--------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
| | [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 38.57 | - | 38.67 | - | 66.00 | 56.00 | -27.33 | - |
| 2 | 0.211 | 0.10 | 46.13 | - | 46.23 | - | 63.16 | 53.16 | -16.93 | - |
| 3 | 0.314 | 0.10 | 31.17 | - | 31.27 | - | 59.86 | 49.86 | -28.59 | - |
| 4 | 1.793 | 0.20 | 30.72 | - | 30.92 | - | 56.00 | 46.00 | -25.08 | - |
| 5 | 2.055 | 0.21 | 29.51 | - | 29.72 | - | 56.00 | 46.00 | -26.28 | - |
| 6 | 10.797 | 0.49 | 34.44 | - | 34.93 | - | 60.00 | 50.00 | -25.07 | - |

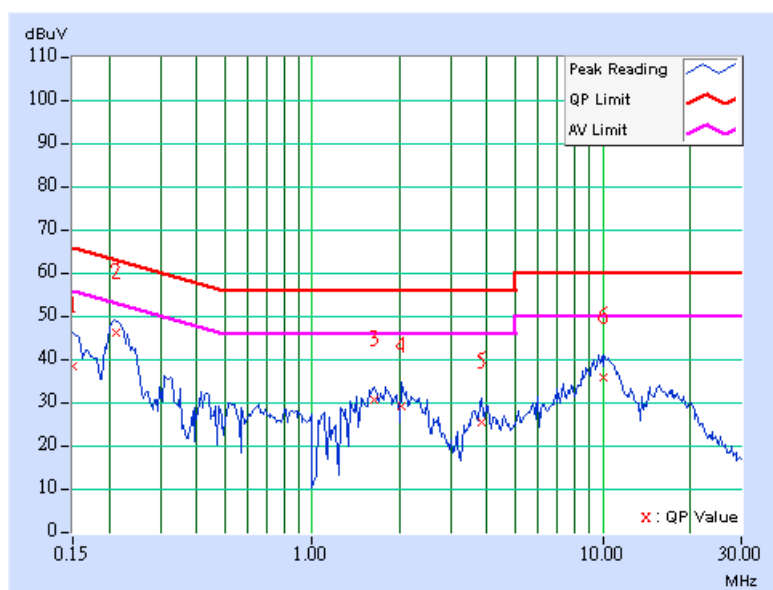
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 6Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 38.04 | - | 38.14 | - | 66.00 | 56.00 | -27.86 | - |
| 2 | 0.210 | 0.10 | 45.95 | - | 46.05 | - | 63.20 | 53.20 | -17.15 | - |
| 3 | 1.637 | 0.16 | 30.34 | - | 30.50 | - | 56.00 | 46.00 | -25.50 | - |
| 4 | 2.035 | 0.20 | 28.98 | - | 29.18 | - | 56.00 | 46.00 | -26.82 | - |
| 5 | 3.836 | 0.36 | 25.08 | - | 25.44 | - | 56.00 | 46.00 | -30.56 | - |
| 6 | 10.023 | 0.46 | 35.57 | - | 36.03 | - | 60.00 | 50.00 | -23.97 | - |

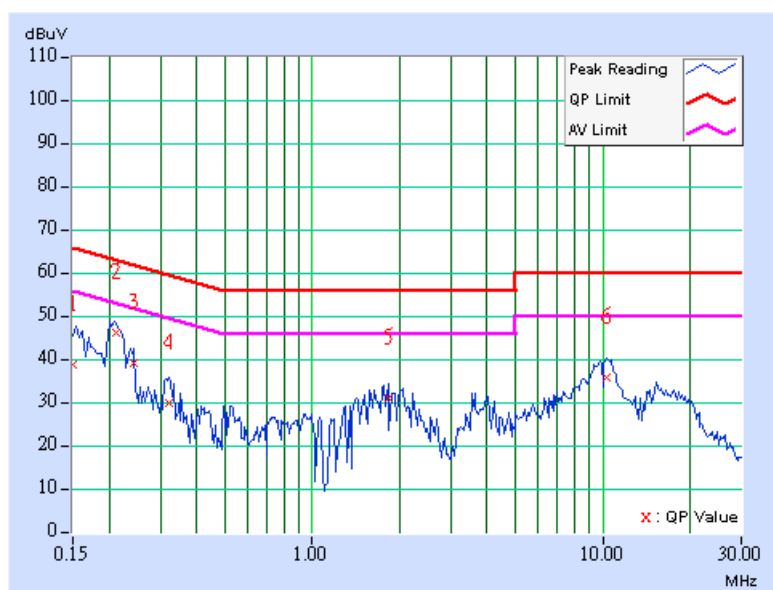
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 6 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 6Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|----------------|-------------------------|----------------------------|-----|-----------------------------|-----|--------------------|-------|----------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 38.53 | - | 38.63 | - | 66.00 | 56.00 | -27.37 | - |
| 2 | 0.213 | 0.10 | 45.76 | - | 45.86 | - | 63.11 | 53.11 | -17.25 | - |
| 3 | 0.244 | 0.10 | 38.63 | - | 38.73 | - | 61.97 | 51.97 | -23.24 | - |
| 4 | 0.322 | 0.10 | 29.41 | - | 29.51 | - | 59.66 | 49.66 | -30.15 | - |
| 5 | 1.828 | 0.20 | 30.65 | - | 30.85 | - | 56.00 | 46.00 | -25.15 | - |
| 6 | 10.324 | 0.47 | 35.60 | - | 36.07 | - | 60.00 | 50.00 | -23.93 | - |

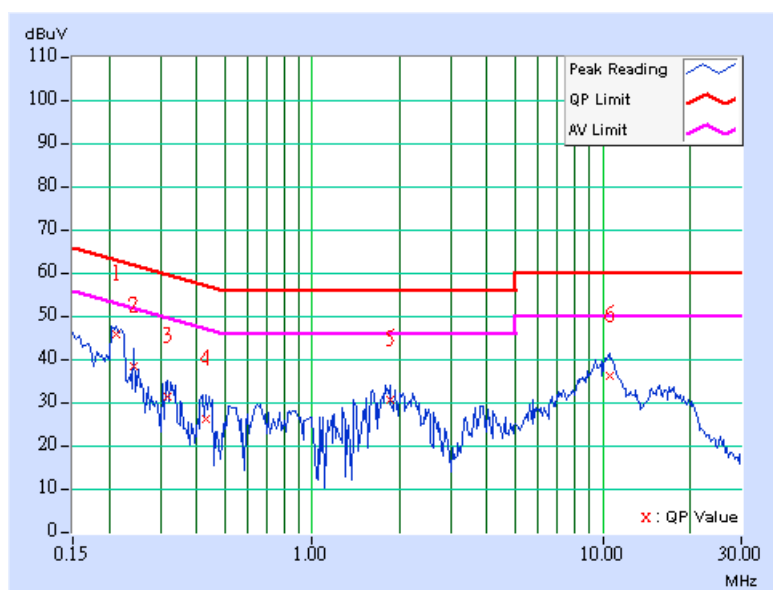
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 6 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 6Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.210 | 0.10 | 45.58 | - | 45.68 | - | 63.19 | 53.19 | -17.51 | - |
| 2 | 0.244 | 0.10 | 38.07 | - | 38.17 | - | 61.97 | 51.97 | -23.80 | - |
| 3 | 0.318 | 0.10 | 30.96 | - | 31.06 | - | 59.76 | 49.76 | -28.70 | - |
| 4 | 0.431 | 0.10 | 25.85 | - | 25.95 | - | 57.23 | 47.23 | -31.28 | - |
| 5 | 1.855 | 0.19 | 30.42 | - | 30.61 | - | 56.00 | 46.00 | -25.39 | - |
| 6 | 10.520 | 0.47 | 35.97 | - | 36.44 | - | 60.00 | 50.00 | -23.56 | - |

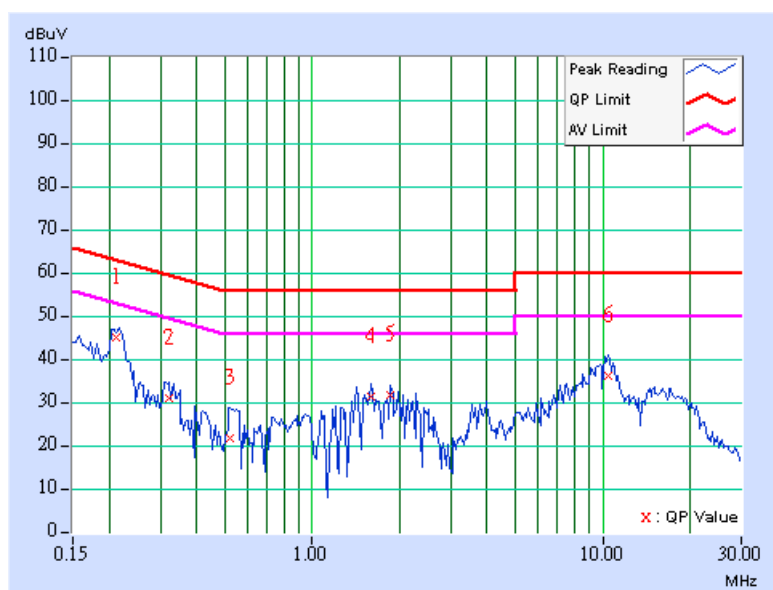
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 11 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 6Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor [dB] | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.212 | 0.10 | 44.62 | - | 44.72 | - | 63.13 | 53.13 | -18.41 | - |
| 2 | 0.322 | 0.10 | 30.46 | - | 30.56 | - | 59.66 | 49.66 | -29.10 | - |
| 3 | 0.521 | 0.12 | 21.44 | - | 21.56 | - | 56.00 | 46.00 | -34.44 | - |
| 4 | 1.594 | 0.20 | 31.13 | - | 31.33 | - | 56.00 | 46.00 | -24.67 | - |
| 5 | 1.867 | 0.20 | 31.29 | - | 31.49 | - | 56.00 | 46.00 | -24.51 | - |
| 6 | 10.418 | 0.47 | 35.88 | - | 36.35 | - | 60.00 | 50.00 | -23.65 | - |

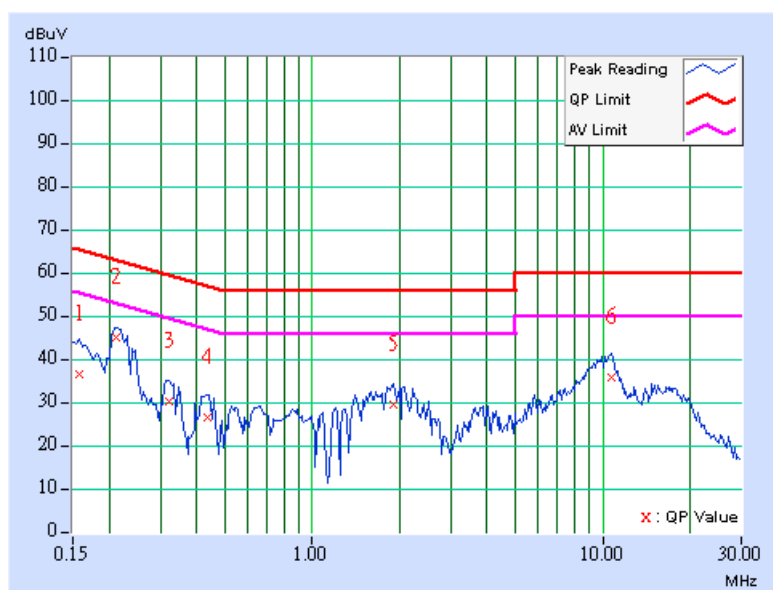
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 11 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 6Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.158 | 0.10 | 36.21 | - | 36.31 | - | 65.58 | 55.58 | -29.27 | - |
| 2 | 0.213 | 0.10 | 44.62 | - | 44.72 | - | 63.11 | 53.11 | -18.39 | - |
| 3 | 0.322 | 0.10 | 29.79 | - | 29.89 | - | 59.66 | 49.66 | -29.77 | - |
| 4 | 0.435 | 0.10 | 26.11 | - | 26.21 | - | 57.15 | 47.15 | -30.94 | - |
| 5 | 1.898 | 0.19 | 29.05 | - | 29.24 | - | 56.00 | 46.00 | -26.76 | - |
| 6 | 10.727 | 0.47 | 35.56 | - | 36.03 | - | 60.00 | 50.00 | -23.97 | - |

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

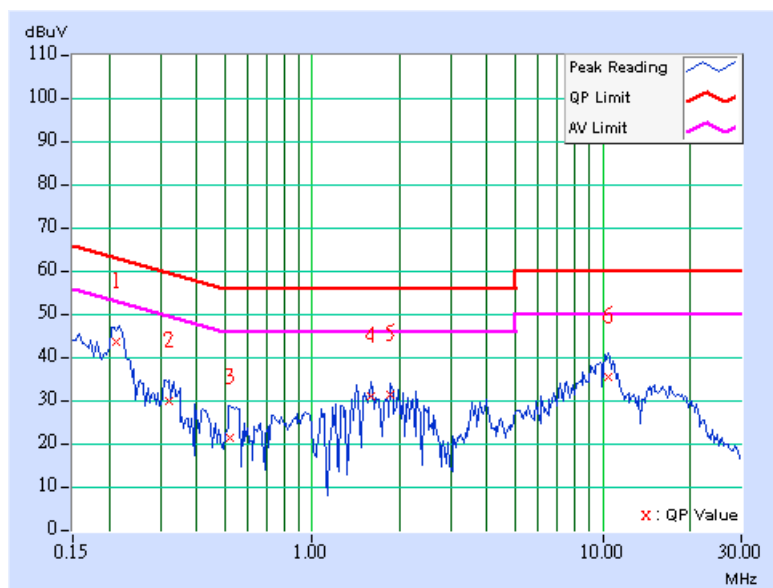


DRAFT 802.11n (20MHz) OFDM MODULATION:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 14.444Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. | CORR. | READING VALUE | | EMISSION LEVEL | | LIMIT | | MARGIN | |
|----|--------|--------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
| | [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.212 | 0.10 | 43.11 | - | 43.21 | - | 63.13 | 53.13 | -19.92 | - |
| 2 | 0.322 | 0.10 | 29.46 | - | 29.56 | - | 59.66 | 49.66 | -30.10 | - |
| 3 | 0.521 | 0.12 | 21.04 | - | 21.16 | - | 56.00 | 46.00 | -34.84 | - |
| 4 | 1.594 | 0.20 | 30.53 | - | 30.73 | - | 56.00 | 46.00 | -25.27 | - |
| 5 | 1.867 | 0.20 | 31.09 | - | 31.29 | - | 56.00 | 46.00 | -24.71 | - |
| 6 | 10.418 | 0.47 | 35.08 | - | 35.55 | - | 60.00 | 50.00 | -24.45 | - |

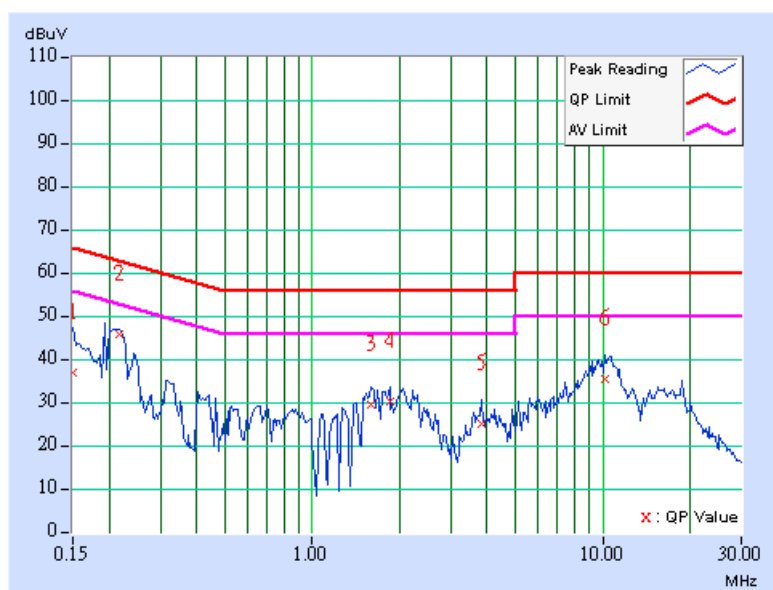
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 14.444Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor [dB] | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 36.74 | - | 36.84 | - | 66.00 | 56.00 | -29.16 | - |
| 2 | 0.216 | 0.10 | 45.50 | - | 45.60 | - | 62.96 | 52.96 | -17.36 | - |
| 3 | 1.594 | 0.16 | 29.02 | - | 29.18 | - | 56.00 | 46.00 | -26.82 | - |
| 4 | 1.852 | 0.19 | 29.77 | - | 29.96 | - | 56.00 | 46.00 | -26.04 | - |
| 5 | 3.848 | 0.36 | 24.65 | - | 25.01 | - | 56.00 | 46.00 | -30.99 | - |
| 6 | 10.129 | 0.46 | 34.92 | - | 35.38 | - | 60.00 | 50.00 | -24.62 | - |

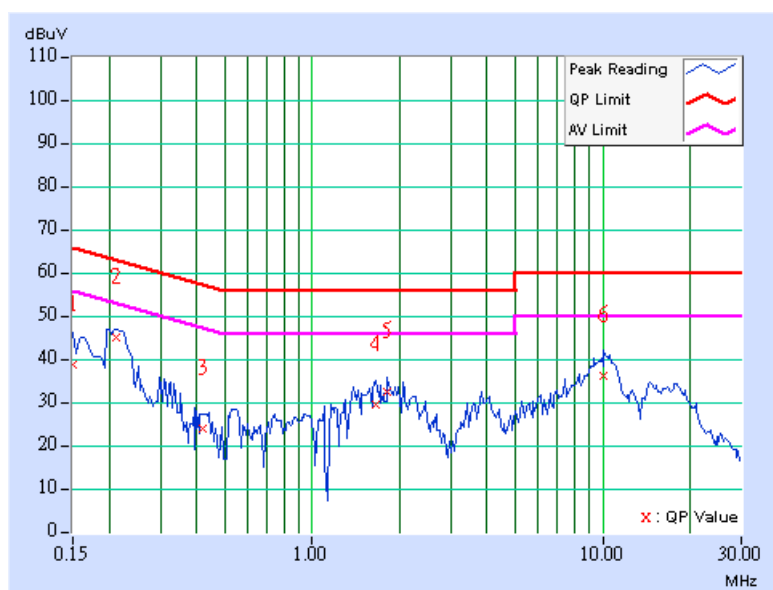
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 6 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 14.444Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 38.26 | - | 38.36 | - | 65.99 | 55.99 | -27.63 | - |
| 2 | 0.210 | 0.10 | 44.79 | - | 44.89 | - | 63.19 | 53.19 | -18.30 | - |
| 3 | 0.421 | 0.10 | 23.69 | - | 23.79 | - | 57.43 | 47.43 | -33.64 | - |
| 4 | 1.665 | 0.20 | 28.99 | - | 29.19 | - | 56.00 | 46.00 | -26.81 | - |
| 5 | 1.817 | 0.20 | 32.01 | - | 32.21 | - | 56.00 | 46.00 | -23.79 | - |
| 6 | 10.035 | 0.46 | 35.76 | - | 36.22 | - | 60.00 | 50.00 | -23.78 | - |

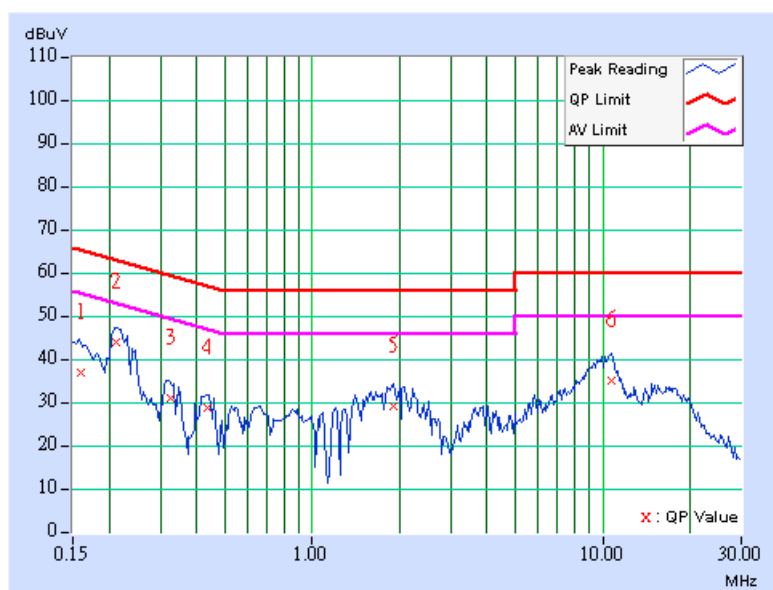
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 6 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 14.444Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.159 | 0.10 | 36.55 | - | 36.65 | - | 65.52 | 55.52 | -28.87 | - |
| 2 | 0.212 | 0.10 | 43.50 | - | 43.60 | - | 63.12 | 53.12 | -19.52 | - |
| 3 | 0.325 | 0.10 | 30.57 | - | 30.67 | - | 59.59 | 49.59 | -28.92 | - |
| 4 | 0.436 | 0.10 | 28.56 | - | 28.66 | - | 57.13 | 47.13 | -28.47 | - |
| 5 | 1.897 | 0.19 | 28.77 | - | 28.96 | - | 56.00 | 46.00 | -27.04 | - |
| 6 | 10.725 | 0.47 | 34.58 | - | 35.05 | - | 60.00 | 50.00 | -24.95 | - |

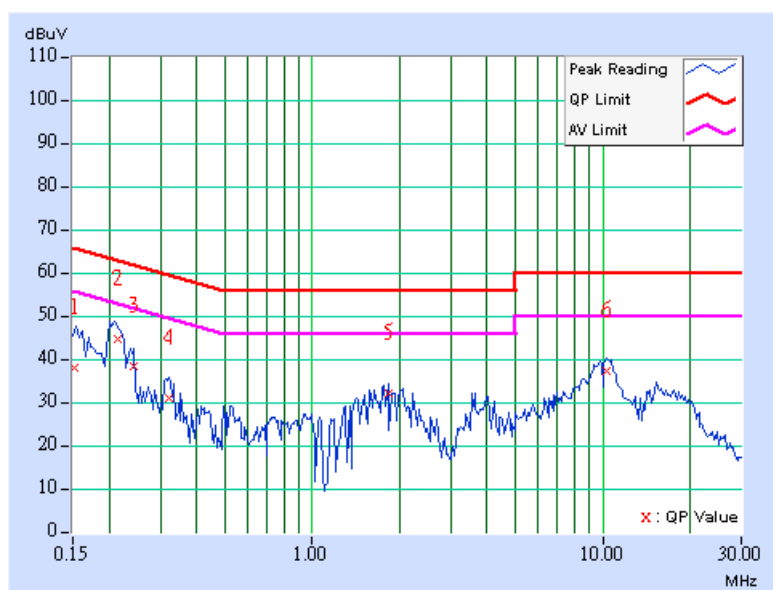
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 11 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 14.444Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.151 | 0.10 | 37.56 | - | 37.66 | - | 65.94 | 55.94 | -28.28 | - |
| 2 | 0.215 | 0.10 | 44.28 | - | 44.38 | - | 63.03 | 53.03 | -18.65 | - |
| 3 | 0.244 | 0.10 | 37.96 | - | 38.06 | - | 61.97 | 51.97 | -23.91 | - |
| 4 | 0.323 | 0.10 | 30.56 | - | 30.66 | - | 59.64 | 49.64 | -28.98 | - |
| 5 | 1.829 | 0.20 | 31.88 | - | 32.08 | - | 56.00 | 46.00 | -23.92 | - |
| 6 | 10.323 | 0.47 | 36.97 | - | 37.44 | - | 60.00 | 50.00 | -22.56 | - |

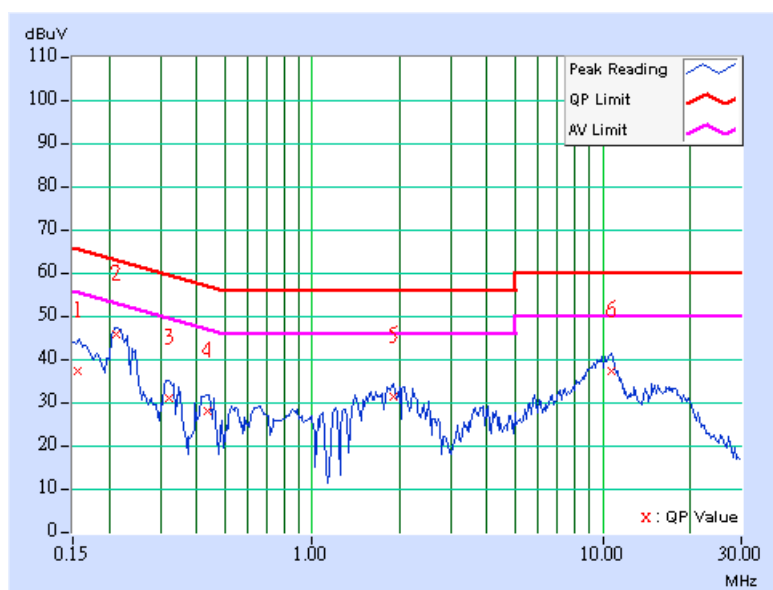
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 11 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 14.444Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor [dB] | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.156 | 0.10 | 37.11 | - | 37.21 | - | 65.65 | 55.65 | -28.44 | - |
| 2 | 0.213 | 0.10 | 45.63 | - | 45.73 | - | 63.10 | 53.10 | -17.37 | - |
| 3 | 0.322 | 0.10 | 30.59 | - | 30.69 | - | 59.64 | 49.64 | -28.95 | - |
| 4 | 0.437 | 0.10 | 27.56 | - | 27.66 | - | 57.12 | 47.12 | -29.46 | - |
| 5 | 1.899 | 0.19 | 30.88 | - | 31.07 | - | 56.00 | 46.00 | -24.93 | - |
| 6 | 10.727 | 0.47 | 36.87 | - | 37.34 | - | 60.00 | 50.00 | -22.66 | - |

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

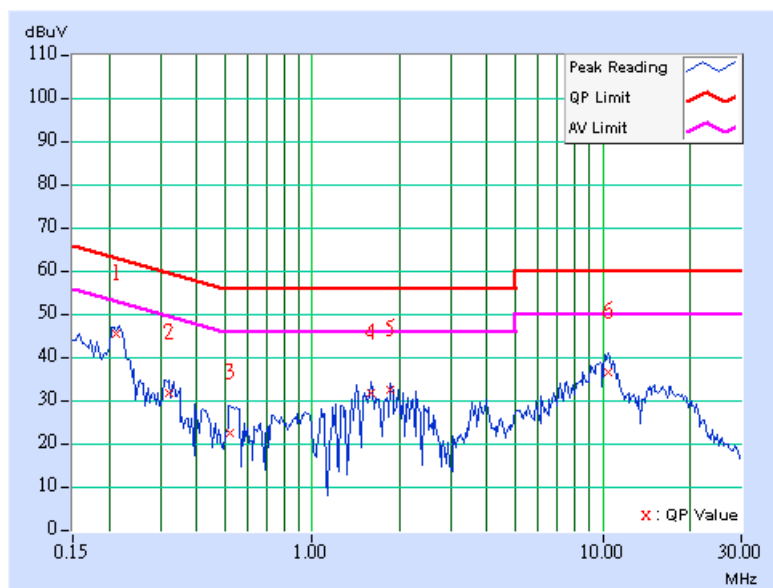


DRAFT 802.11n (40MHz) OFDM MODULATION:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 30Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. | CORR. | READING VALUE | | EMISSION LEVEL | | LIMIT | | MARGIN | |
|----|--------|--------|---------------|-----|----------------|-----|-----------|-------|--------|-----|
| | [MHz] | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.212 | 0.10 | 45.10 | - | 45.20 | - | 63.13 | 53.13 | -17.93 | - |
| 2 | 0.322 | 0.10 | 31.46 | - | 31.56 | - | 59.66 | 49.66 | -28.10 | - |
| 3 | 0.521 | 0.12 | 22.04 | - | 22.16 | - | 56.00 | 46.00 | -33.84 | - |
| 4 | 1.594 | 0.20 | 31.53 | - | 31.73 | - | 56.00 | 46.00 | -24.27 | - |
| 5 | 1.867 | 0.20 | 32.09 | - | 32.29 | - | 56.00 | 46.00 | -23.71 | - |
| 6 | 10.418 | 0.47 | 36.08 | - | 36.55 | - | 60.00 | 50.00 | -23.45 | - |

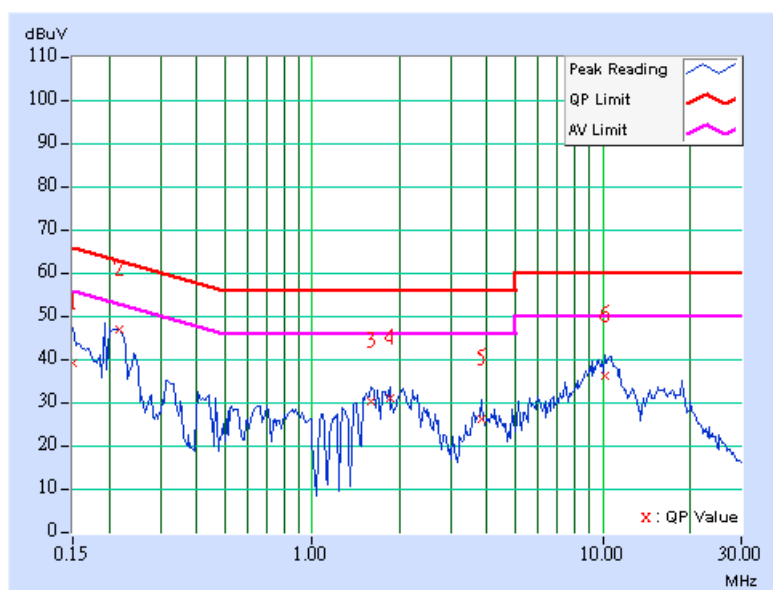
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 30Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|--------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|--------------|---------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 38.74 | - | 38.84 | - | 66.00 | 56.00 | -27.16 | - |
| 2 | 0.216 | 0.10 | 46.50 | - | 46.60 | - | 62.96 | 52.96 | -16.36 | - |
| 3 | 1.594 | 0.16 | 30.02 | - | 30.18 | - | 56.00 | 46.00 | -25.82 | - |
| 4 | 1.852 | 0.19 | 30.77 | - | 30.96 | - | 56.00 | 46.00 | -25.04 | - |
| 5 | 3.848 | 0.36 | 25.65 | - | 26.01 | - | 56.00 | 46.00 | -29.99 | - |
| 6 | 10.129 | 0.46 | 35.92 | - | 36.38 | - | 60.00 | 50.00 | -23.62 | - |

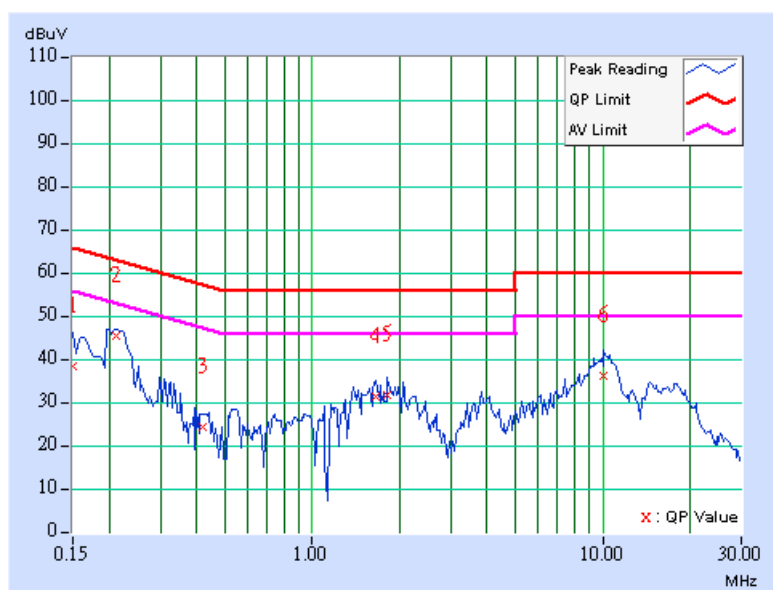
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 4 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 30Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor [dB] | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 38.11 | - | 38.21 | - | 66.00 | 56.00 | -27.79 | - |
| 2 | 0.211 | 0.10 | 44.98 | - | 45.08 | - | 63.17 | 53.17 | -18.09 | - |
| 3 | 0.421 | 0.10 | 23.98 | - | 24.08 | - | 57.44 | 47.44 | -33.35 | - |
| 4 | 1.660 | 0.20 | 30.99 | - | 31.19 | - | 56.00 | 46.00 | -24.81 | - |
| 5 | 1.816 | 0.20 | 31.38 | - | 31.58 | - | 56.00 | 46.00 | -24.42 | - |
| 6 | 10.035 | 0.46 | 35.89 | - | 36.35 | - | 60.00 | 50.00 | -23.65 | - |

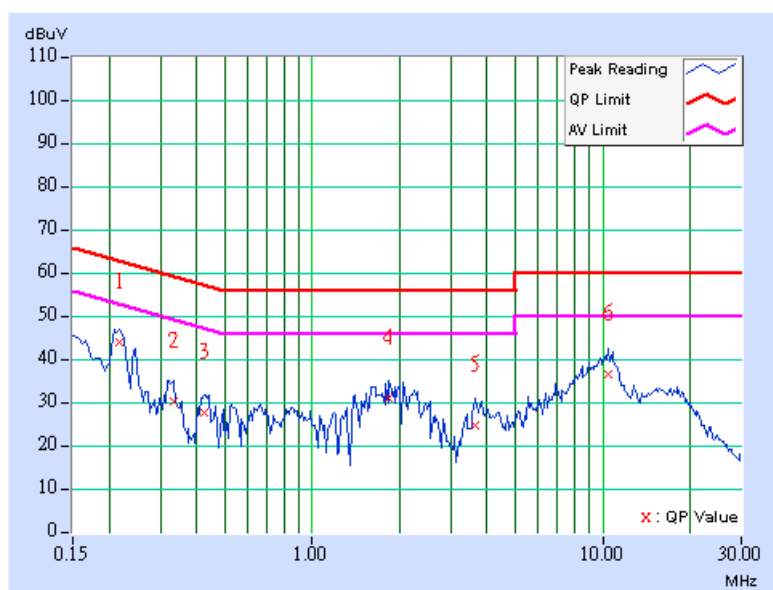
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 4 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 30Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor [dB] | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.216 | 0.10 | 43.61 | - | 43.71 | - | 62.96 | 52.96 | -19.25 | - |
| 2 | 0.334 | 0.10 | 29.94 | - | 30.04 | - | 59.36 | 49.36 | -29.32 | - |
| 3 | 0.423 | 0.10 | 27.27 | - | 27.37 | - | 57.38 | 47.38 | -30.01 | - |
| 4 | 1.840 | 0.18 | 30.65 | - | 30.83 | - | 56.00 | 46.00 | -25.17 | - |
| 5 | 3.656 | 0.34 | 24.18 | - | 24.52 | - | 56.00 | 46.00 | -31.48 | - |
| 6 | 10.398 | 0.47 | 36.18 | - | 36.65 | - | 60.00 | 50.00 | -23.35 | - |

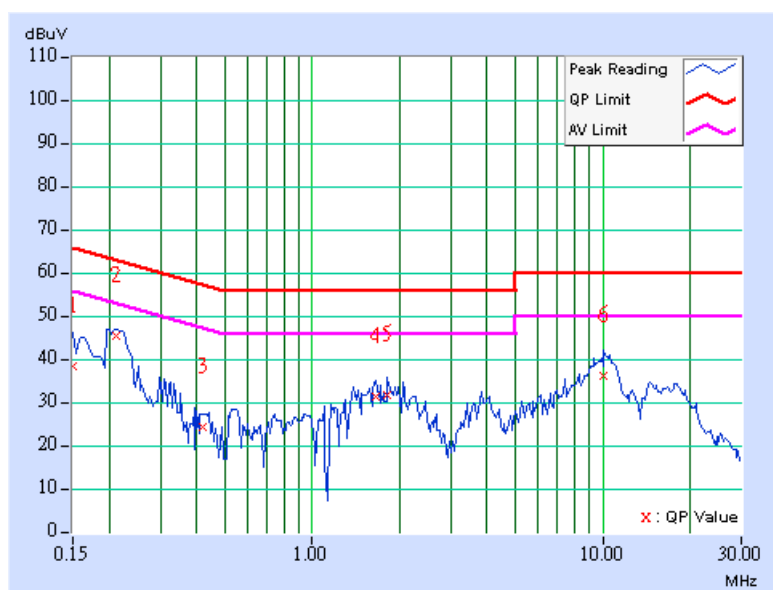
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 7 | PHASE | Line 1 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 30Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor (dB) | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 38.03 | - | 38.13 | - | 66.00 | 56.00 | -27.87 | - |
| 2 | 0.211 | 0.10 | 44.94 | - | 45.04 | - | 63.17 | 53.17 | -18.13 | - |
| 3 | 0.421 | 0.10 | 23.96 | - | 24.06 | - | 57.44 | 47.44 | -33.37 | - |
| 4 | 1.660 | 0.20 | 30.96 | - | 31.16 | - | 56.00 | 46.00 | -24.84 | - |
| 5 | 1.816 | 0.20 | 31.35 | - | 31.55 | - | 56.00 | 46.00 | -24.45 | - |
| 6 | 10.035 | 0.46 | 35.85 | - | 36.31 | - | 60.00 | 50.00 | -23.69 | - |

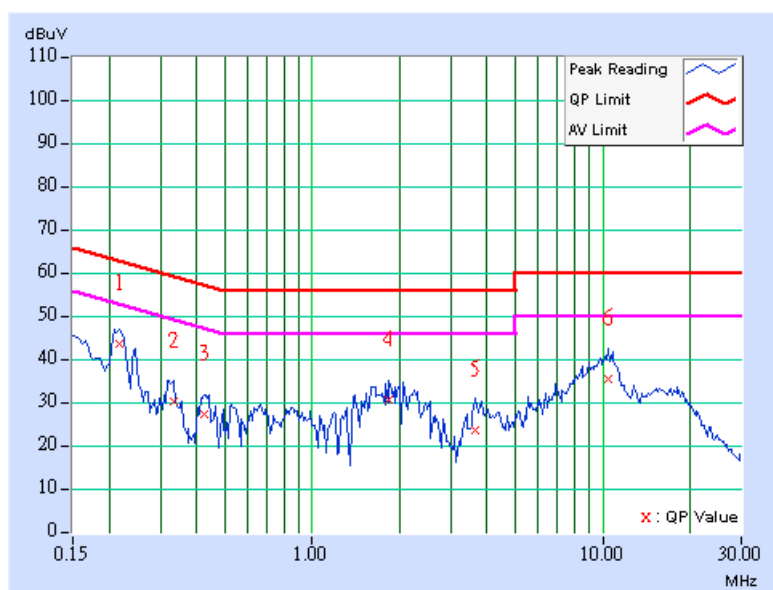
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 7 | PHASE | Line 2 |
| MODULATION TYPE | BPSK | 6dB BANDWIDTH | 9 kHz |
| TRANSFER RATE | 30Mbps | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 68%RH, 991hPa | TESTED BY | Morgan Chen |

| No | FREQ. [MHz] | CORR. Factor [dB] | READING VALUE [dB (uV)] | | EMISSION LEVEL [dB (uV)] | | LIMIT [dB (uV)] | | MARGIN (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-------|-------------|-----|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.216 | 0.10 | 43.24 | - | 43.34 | - | 62.95 | 52.95 | -19.61 | - |
| 2 | 0.334 | 0.10 | 29.74 | - | 29.84 | - | 59.36 | 49.36 | -29.52 | - |
| 3 | 0.423 | 0.10 | 27.07 | - | 27.17 | - | 57.38 | 47.38 | -30.21 | - |
| 4 | 1.840 | 0.18 | 30.45 | - | 30.63 | - | 56.00 | 46.00 | -25.37 | - |
| 5 | 3.656 | 0.34 | 23.18 | - | 23.52 | - | 56.00 | 46.00 | -32.48 | - |
| 6 | 10.398 | 0.47 | 35.18 | - | 35.65 | - | 60.00 | 50.00 | -24.35 | - |

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

| FREQUENCIES (MHz) | FIELD STRENGTH (microvolts/meter) | MEASUREMENT DISTANCE (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490 | 2400 / F(kHz) | 300 |
| 0.490 ~ 1.705 | 24000 / F(kHz) | 30 |
| 1.705 ~ 30.0 | 30 | 30 |
| 30 ~ 88 | 100 | 3 |
| 88 ~ 216 | 150 | 3 |
| 216 ~ 960 | 200 | 3 |
| Above 960 | 500 | 3 |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|---|--------------------|-------------|------------------|
| Test Receiver ROHDE & SCHWARZ | ESI7 | 838496/016 | Jan. 01, 2007 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100041 | Dec. 04, 2006 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-155 | Jan. 15, 2007 |
| HORN Antenna SCHWARZBECK | BBHA 9120D | 9120D-404 | Jan. 01, 2007 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170242 | Jan. 19, 2007 |
| Preamplifier Agilent | 8449B | 3008A01960 | Nov. 09, 2006 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 219268/4 | Dec. 20, 2006 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 230129/4 | Dec. 20, 2006 |
| Software ADT. | ADT_Radiated_V5.14 | NA | NA |
| Antenna Tower inn-co GmbH | MA 4000 | 010303 | NA |
| Antenna Tower Controller inn-co GmbH | CO2000 | 019303 | NA |
| Turn Table ADT. | TT100. | TT93021704 | NA |
| Turn Table Controller ADT. | SC100. | SC93021704 | NA |

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 3.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The IC Site Registration No. is IC4924-4.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

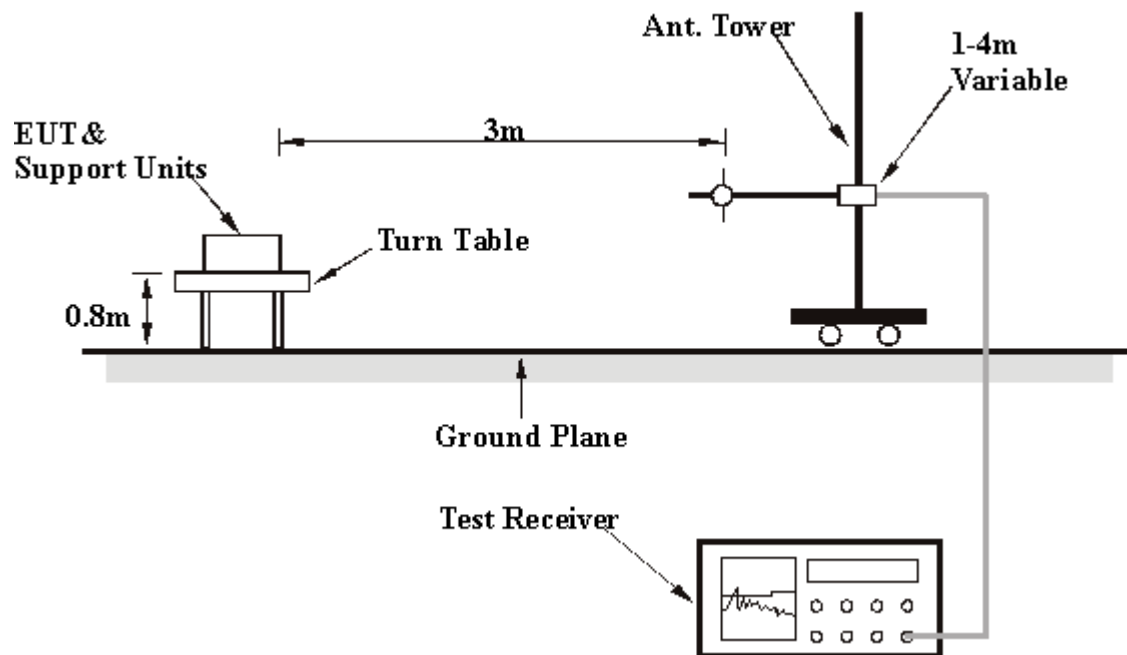
NOTE:

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|-------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | Below 1000MHz |
| MODULATION TYPE | BPSK for 802.11g | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 6Mbps | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 23deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 115.53 | 29.37 QP | 43.50 | -14.13 | 1.50 H | 91 | 18.93 | 10.44 |
| 2 | 333.25 | 29.92 QP | 46.00 | -16.08 | 1.00 H | 73 | 14.04 | 15.89 |
| 3 | 465.43 | 32.64 QP | 46.00 | -13.36 | 1.50 H | 127 | 13.56 | 19.08 |
| 4 | 560.68 | 34.83 QP | 46.00 | -11.17 | 1.50 H | 172 | 13.50 | 21.33 |
| 5 | 799.78 | 39.73 QP | 46.00 | -6.27 | 1.00 H | 154 | 13.62 | 26.11 |
| 6 | 881.42 | 39.20 QP | 46.00 | -6.80 | 1.00 H | 49 | 12.02 | 27.19 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 333.25 | 31.65 QP | 46.00 | -14.35 | 1.75 V | 262 | 15.76 | 15.89 |
| 2 | 399.34 | 29.92 QP | 46.00 | -16.08 | 1.75 V | 223 | 12.15 | 17.78 |
| 3 | 465.43 | 30.04 QP | 46.00 | -15.96 | 1.50 V | 310 | 10.96 | 19.08 |
| 4 | 560.68 | 31.99 QP | 46.00 | -14.01 | 1.00 V | 352 | 10.66 | 21.33 |
| 5 | 799.78 | 35.83 QP | 46.00 | -10.17 | 1.25 V | 205 | 9.73 | 26.11 |
| 6 | 881.42 | 37.77 QP | 46.00 | -8.23 | 1.25 V | 52 | 10.58 | 27.19 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|--------------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | Below 1000MHz |
| MODULATION TYPE | BPSK for draft 802.11n (20MHz) | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 7.2Mbps | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 278.82 | 39.03 QP | 46.00 | -6.97 | 1.25 H | 79 | 24.53 | 14.50 |
| 2 | 440.16 | 37.05 QP | 46.00 | -8.95 | 1.25 H | 94 | 18.53 | 18.52 |
| 3 | 640.38 | 39.84 QP | 46.00 | -6.16 | 1.00 H | 25 | 16.83 | 23.01 |
| 4 | 720.08 | 37.82 QP | 46.00 | -8.18 | 1.00 H | 73 | 13.02 | 24.80 |
| 5 | 799.78 | 40.45 QP | 46.00 | -5.55 | 1.00 H | 25 | 14.34 | 26.11 |
| 6 | 881.42 | 41.37 QP | 46.00 | -4.63 | 1.00 H | 145 | 14.19 | 27.19 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 360.46 | 32.00 QP | 46.00 | -14.00 | 1.50 V | 130 | 15.53 | 16.47 |
| 2 | 399.34 | 33.06 QP | 46.00 | -12.94 | 1.00 V | 283 | 15.28 | 17.78 |
| 3 | 440.16 | 35.90 QP | 46.00 | -10.10 | 1.00 V | 49 | 17.38 | 18.52 |
| 4 | 560.68 | 37.48 QP | 46.00 | -8.52 | 1.50 V | 133 | 16.15 | 21.33 |
| 5 | 720.08 | 35.58 QP | 46.00 | -10.42 | 1.00 V | 97 | 10.78 | 24.80 |
| 6 | 881.42 | 36.16 QP | 46.00 | -9.84 | 1.00 V | 178 | 8.97 | 27.19 |

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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|--------------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | Below 1000MHz |
| MODULATION TYPE | BPSK for draft 802.11n (20MHz) | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 14.444Mbps | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 278.82 | 40.21 QP | 46.00 | -5.79 | 1.25 H | 76 | 25.71 | 14.50 |
| 2 | 399.34 | 38.39 QP | 46.00 | -7.61 | 1.00 H | 166 | 20.61 | 17.78 |
| 3 | 560.68 | 40.67 QP | 46.00 | -5.33 | 1.25 H | 49 | 19.33 | 21.33 |
| 4 | 640.38 | 39.94 QP | 46.00 | -6.06 | 1.00 H | 142 | 16.93 | 23.01 |
| 5 | 799.78 | 39.65 QP | 46.00 | -6.35 | 1.00 H | 142 | 13.55 | 26.11 |
| 6 | 881.42 | 42.28 QP | 46.00 | -3.72 | 1.00 H | 49 | 15.09 | 27.19 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 31.94 | 37.15 QP | 40.00 | -2.85 | 1.50 V | 94 | 24.57 | 12.58 |
| 2 | 333.25 | 40.71 QP | 46.00 | -5.29 | 1.00 V | 130 | 24.83 | 15.89 |
| 3 | 399.34 | 38.57 QP | 46.00 | -7.43 | 1.00 V | 100 | 20.79 | 17.78 |
| 4 | 599.56 | 33.62 QP | 46.00 | -12.38 | 1.25 V | 76 | 11.08 | 22.54 |
| 5 | 799.78 | 33.26 QP | 46.00 | -12.74 | 1.00 V | 169 | 7.15 | 26.11 |
| 6 | 881.42 | 35.40 QP | 46.00 | -10.60 | 1.00 V | 106 | 8.21 | 27.19 |

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



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|--------------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | Below 1000MHz |
| MODULATION TYPE | BPSK for draft 802.11n (40MHz) | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 15Mbps | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 278.82 | 39.46 QP | 46.00 | -6.54 | 1.00 H | 340 | 24.96 | 14.50 |
| 2 | 399.34 | 37.45 QP | 46.00 | -8.55 | 1.00 H | 178 | 19.67 | 17.78 |
| 3 | 440.16 | 36.38 QP | 46.00 | -9.62 | 1.00 H | 133 | 17.86 | 18.52 |
| 4 | 640.38 | 36.86 QP | 46.00 | -9.14 | 1.00 H | 61 | 13.85 | 23.01 |
| 5 | 799.78 | 39.05 QP | 46.00 | -6.95 | 1.50 H | 61 | 12.94 | 26.11 |
| 6 | 881.42 | 41.59 QP | 46.00 | -4.41 | 1.00 H | 94 | 14.40 | 27.19 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 70.82 | 27.67 QP | 40.00 | -12.33 | 1.00 V | 307 | 16.13 | 11.54 |
| 2 | 399.34 | 32.19 QP | 46.00 | -13.81 | 1.50 V | 292 | 14.41 | 17.78 |
| 3 | 440.16 | 34.73 QP | 46.00 | -11.27 | 1.00 V | 211 | 16.21 | 18.52 |
| 4 | 560.68 | 33.49 QP | 46.00 | -12.51 | 1.00 V | 340 | 12.16 | 21.33 |
| 5 | 799.78 | 33.90 QP | 46.00 | -12.10 | 1.50 V | 49 | 7.79 | 26.11 |
| 6 | 881.42 | 35.02 QP | 46.00 | -10.98 | 1.00 V | 91 | 7.84 | 27.19 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|--------------------------------|----------------------|---------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | Below 1000MHz |
| MODULATION TYPE | BPSK for draft 802.11n (40MHz) | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 30Mbps | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 278.82 | 39.45 QP | 46.00 | -6.55 | 1.25 H | 121 | 24.95 | 14.50 |
| 2 | 399.34 | 36.81 QP | 46.00 | -9.19 | 1.00 H | 67 | 19.04 | 17.78 |
| 3 | 640.38 | 37.29 QP | 46.00 | -8.71 | 1.25 H | 109 | 14.28 | 23.01 |
| 4 | 720.08 | 36.77 QP | 46.00 | -9.23 | 1.00 H | 43 | 11.97 | 24.80 |
| 5 | 799.78 | 40.12 QP | 46.00 | -5.88 | 1.00 H | 109 | 14.02 | 26.11 |
| 6 | 881.42 | 41.59 QP | 46.00 | -4.41 | 1.00 H | 142 | 14.41 | 27.19 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 399.34 | 32.18 QP | 46.00 | -13.82 | 1.25 V | 136 | 14.40 | 17.78 |
| 2 | 440.16 | 33.73 QP | 46.00 | -12.27 | 1.00 V | 166 | 15.21 | 18.52 |
| 3 | 560.68 | 34.84 QP | 46.00 | -11.16 | 1.25 V | 184 | 13.51 | 21.33 |
| 4 | 720.08 | 33.04 QP | 46.00 | -12.96 | 1.00 V | 55 | 8.24 | 24.80 |
| 5 | 799.78 | 34.25 QP | 46.00 | -11.75 | 1.00 V | 340 | 8.14 | 26.11 |
| 6 | 881.42 | 34.45 QP | 46.00 | -11.55 | 1.00 V | 184 | 7.26 | 27.19 |

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



802.11b DSSS MODULATION:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | DBPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 1Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.49 PK | 74.00 | -33.51 | 1.00 H | 9 | 12.58 | 27.91 |
| 1 | 1120.00 | 30.91 AV | 54.00 | -23.09 | 1.00 H | 9 | 3.00 | 27.91 |
| 2 | 2386.00 | 53.73 PK | 74.00 | -20.27 | 1.02 H | 173 | 21.63 | 32.10 |
| 2 | 2386.00 | 50.18 AV | 54.00 | -3.82 | 1.02 H | 173 | 18.08 | 32.10 |
| 3 | *2412.00 | 106.78 PK | | | 1.02 H | 173 | 74.59 | 32.19 |
| 3 | *2412.00 | 103.23 AV | | | 1.02 H | 173 | 71.04 | 32.19 |
| 4 | 4824.00 | 52.04 PK | 74.00 | -21.96 | 1.06 H | 222 | 13.39 | 38.65 |
| 4 | 4824.00 | 46.84 AV | 54.00 | -7.16 | 1.06 H | 222 | 8.19 | 38.65 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.28 PK | 74.00 | -34.72 | 1.09 V | 246 | 11.37 | 27.91 |
| 1 | 1120.00 | 29.75 AV | 54.00 | -24.25 | 1.09 V | 246 | 1.84 | 27.91 |
| 2 | 2386.00 | 48.14 PK | 74.00 | -25.86 | 1.51 V | 32 | 16.04 | 32.10 |
| 2 | 2386.00 | 44.36 AV | 54.00 | -9.64 | 1.51 V | 32 | 12.26 | 32.10 |
| 3 | *2412.00 | 101.19 PK | | | 1.51 V | 32 | 69.00 | 32.19 |
| 3 | *2412.00 | 97.41 AV | | | 1.51 V | 32 | 65.22 | 32.19 |
| 4 | 4824.00 | 54.18 PK | 74.00 | -19.82 | 1.12 V | 31 | 15.53 | 38.65 |
| 4 | 4824.00 | 50.23 AV | 54.00 | -3.77 | 1.12 V | 31 | 11.58 | 38.65 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | DBPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 1Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.26 PK | 74.00 | -32.74 | 1.06 H | 44 | 13.35 | 27.91 |
| 1 | 1120.00 | 31.75 AV | 54.00 | -22.25 | 1.06 H | 44 | 3.84 | 27.91 |
| 2 | *2437.00 | 107.22 PK | | | 1.02 H | 157 | 74.93 | 32.29 |
| 2 | *2437.00 | 103.71 AV | | | 1.02 H | 157 | 71.42 | 32.29 |
| 3 | 4874.00 | 52.47 PK | 74.00 | -21.53 | 1.12 H | 238 | 13.68 | 38.79 |
| 3 | 4874.00 | 48.81 AV | 54.00 | -5.19 | 1.12 H | 238 | 10.02 | 38.79 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.14 PK | 74.00 | -33.86 | 1.02 V | 274 | 12.23 | 27.91 |
| 1 | 1120.00 | 30.68 AV | 54.00 | -23.32 | 1.02 V | 274 | 2.77 | 27.91 |
| 2 | *2437.00 | 101.74 PK | | | 1.48 V | 39 | 69.45 | 32.29 |
| 2 | *2437.00 | 97.93 AV | | | 1.48 V | 39 | 65.64 | 32.29 |
| 3 | 4874.00 | 54.61 PK | 74.00 | -19.39 | 1.10 V | 304 | 15.82 | 38.79 |
| 3 | 4874.00 | 49.88 AV | 54.00 | -4.12 | 1.10 V | 304 | 11.09 | 38.79 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | DBPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 1Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.92 PK | 74.00 | -33.08 | 1.04 H | 36 | 13.01 | 27.91 |
| 1 | 1120.00 | 31.43 AV | 54.00 | -22.57 | 1.04 H | 36 | 3.52 | 27.91 |
| 2 | *2462.00 | 107.19 PK | | | 1.05 H | 135 | 74.81 | 32.38 |
| 2 | *2462.00 | 103.52 AV | | | 1.05 H | 135 | 71.14 | 32.38 |
| 3 | 2483.50 | 53.49 PK | 74.00 | -20.51 | 1.05 H | 135 | 21.03 | 32.46 |
| 3 | 2483.50 | 49.82 AV | 54.00 | -4.18 | 1.05 H | 135 | 17.36 | 32.46 |
| 4 | 4924.00 | 53.53 PK | 74.00 | -20.47 | 1.09 H | 233 | 14.61 | 38.92 |
| 4 | 4924.00 | 49.94 AV | 54.00 | -4.06 | 1.09 H | 233 | 11.02 | 38.92 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.87 PK | 74.00 | -34.13 | 1.07 V | 253 | 11.96 | 27.91 |
| 1 | 1120.00 | 30.34 AV | 54.00 | -23.66 | 1.07 V | 253 | 2.43 | 27.91 |
| 2 | *2462.00 | 101.51 PK | | | 1.49 V | 36 | 69.13 | 32.38 |
| 2 | *2462.00 | 97.78 AV | | | 1.49 V | 36 | 65.40 | 32.38 |
| 3 | 2483.50 | 46.81 PK | 74.00 | -27.19 | 1.49 V | 36 | 14.35 | 32.46 |
| 3 | 2483.50 | 43.08 AV | 54.00 | -10.92 | 1.49 V | 36 | 10.62 | 32.46 |
| 4 | 4924.00 | 55.72 PK | 74.00 | -18.28 | 1.12 V | 291 | 16.80 | 38.92 |
| 4 | 4924.00 | 51.02 AV | 54.00 | -2.98 | 1.12 V | 291 | 12.10 | 38.92 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

802.11g OFDM MODULATION:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 6Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.71 PK | 74.00 | -33.29 | 1.04 H | 18 | 12.80 | 27.91 |
| 1 | 1120.00 | 31.22 AV | 54.00 | -22.78 | 1.04 H | 18 | 3.31 | 27.91 |
| 2 | 2390.00 | 60.34 PK | 74.00 | -13.66 | 1.09 H | 133 | 28.23 | 32.11 |
| 2 | 2390.00 | 49.95 AV | 54.00 | -4.05 | 1.09 H | 133 | 17.84 | 32.11 |
| 3 | *2412.00 | 106.31 PK | | | 1.09 H | 133 | 74.12 | 32.19 |
| 3 | *2412.00 | 95.92 AV | | | 1.09 H | 133 | 63.73 | 32.19 |
| 4 | 4824.00 | 51.59 PK | 74.00 | -22.41 | 1.10 H | 34 | 12.94 | 38.65 |
| 4 | 4824.00 | 38.96 AV | 54.00 | -15.04 | 1.10 H | 34 | 0.31 | 38.65 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.17 PK | 74.00 | -34.83 | 1.08 V | 247 | 11.26 | 27.91 |
| 1 | 1120.00 | 29.62 AV | 54.00 | -24.38 | 1.08 V | 247 | 1.71 | 27.91 |
| 2 | 2390.00 | 58.08 PK | 74.00 | -15.92 | 1.00 V | 102 | 25.97 | 32.11 |
| 2 | 2390.00 | 47.87 AV | 54.00 | -6.13 | 1.00 V | 102 | 15.76 | 32.11 |
| 3 | *2412.00 | 104.05 PK | | | 1.00 V | 102 | 71.86 | 32.19 |
| 3 | *2412.00 | 93.84 AV | | | 1.00 V | 102 | 61.65 | 32.19 |
| 4 | 4824.00 | 56.26 PK | 74.00 | -17.74 | 1.05 V | 18 | 17.61 | 38.65 |
| 4 | 4824.00 | 43.71 AV | 54.00 | -10.29 | 1.05 V | 18 | 5.06 | 38.65 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 6Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.86 PK | 74.00 | -33.14 | 1.06 H | 24 | 12.95 | 27.91 |
| 1 | 1120.00 | 31.35 AV | 54.00 | -22.65 | 1.06 H | 24 | 3.44 | 27.91 |
| 2 | *2437.00 | 106.82 PK | | | 1.09 H | 130 | 74.53 | 32.29 |
| 2 | *2437.00 | 96.79 AV | | | 1.09 H | 130 | 64.50 | 32.29 |
| 3 | 4874.00 | 52.65 PK | 74.00 | -21.35 | 1.19 H | 63 | 13.86 | 38.79 |
| 3 | 4874.00 | 40.03 AV | 54.00 | -13.97 | 1.19 H | 63 | 1.24 | 38.79 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.58 PK | 74.00 | -34.42 | 1.15 V | 267 | 11.67 | 27.91 |
| 1 | 1120.00 | 30.07 AV | 54.00 | -23.93 | 1.15 V | 267 | 2.16 | 27.91 |
| 2 | *2437.00 | 103.94 PK | | | 1.03 V | 107 | 71.65 | 32.29 |
| 2 | *2437.00 | 93.77 AV | | | 1.03 V | 107 | 61.48 | 32.29 |
| 3 | 4874.00 | 58.69 PK | 74.00 | -15.31 | 1.10 V | 84 | 19.90 | 38.79 |
| 3 | 4874.00 | 45.70 AV | 54.00 | -8.30 | 1.10 V | 84 | 6.91 | 38.79 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 6Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.83 PK | 74.00 | -33.17 | 1.06 H | 24 | 12.92 | 27.91 |
| 1 | 1120.00 | 31.34 AV | 54.00 | -22.66 | 1.06 H | 24 | 3.43 | 27.91 |
| 2 | *2462.00 | 106.22 PK | | | 1.06 H | 131 | 73.84 | 32.38 |
| 2 | *2462.00 | 95.93 AV | | | 1.06 H | 131 | 63.55 | 32.38 |
| 3 | 2483.50 | 61.00 PK | 74.00 | -13.00 | 1.06 H | 131 | 28.54 | 32.46 |
| 3 | 2483.50 | 50.71 AV | 54.00 | -3.29 | 1.06 H | 131 | 18.25 | 32.46 |
| 4 | 4924.00 | 51.47 PK | 74.00 | -22.53 | 1.07 H | 29 | 12.55 | 38.92 |
| 4 | 4924.00 | 38.86 AV | 54.00 | -15.14 | 1.07 H | 29 | -0.06 | 38.92 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.24 PK | 74.00 | -34.76 | 1.12 V | 250 | 11.33 | 27.91 |
| 1 | 1120.00 | 29.76 AV | 54.00 | -24.24 | 1.12 V | 250 | 1.85 | 27.91 |
| 2 | *2462.00 | 103.31 PK | | | 1.01 V | 104 | 70.93 | 32.38 |
| 2 | *2462.00 | 93.12 AV | | | 1.01 V | 104 | 60.74 | 32.38 |
| 3 | 2483.50 | 58.09 PK | 74.00 | -15.91 | 1.01 V | 104 | 25.63 | 32.46 |
| 3 | 2483.50 | 47.90 AV | 54.00 | -6.10 | 1.01 V | 104 | 15.44 | 32.46 |
| 4 | 4924.00 | 58.35 PK | 74.00 | -15.65 | 1.13 V | 77 | 19.43 | 38.92 |
| 4 | 4924.00 | 45.42 AV | 54.00 | -8.58 | 1.13 V | 77 | 6.50 | 38.92 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



DRAFT 802.11n (20MHz) OFDM MODULATION: SINGLE TX:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 7.2Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.86 PK | 74.00 | -32.14 | 1.09 H | 266 | 13.95 | 27.91 |
| 1 | 1120.00 | 32.38 AV | 54.00 | -21.62 | 1.09 H | 266 | 4.47 | 27.91 |
| 2 | 2390.00 | 60.68 PK | 74.00 | -13.32 | 1.00 H | 158 | 28.57 | 32.11 |
| 2 | 2390.00 | 50.86 AV | 54.00 | -3.14 | 1.00 H | 158 | 18.75 | 32.11 |
| 3 | *2412.00 | 105.79 PK | | | 1.00 H | 158 | 73.60 | 32.19 |
| 3 | *2412.00 | 96.07 AV | | | 1.00 H | 158 | 63.88 | 32.19 |
| 4 | 4824.00 | 51.68 PK | 74.00 | -22.32 | 1.06 H | 53 | 13.03 | 38.65 |
| 4 | 4824.00 | 39.14 AV | 54.00 | -14.86 | 1.06 H | 53 | 0.49 | 38.65 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.29 PK | 74.00 | -33.71 | 1.19 V | 326 | 12.38 | 27.91 |
| 1 | 1120.00 | 30.78 AV | 54.00 | -23.22 | 1.19 V | 326 | 2.87 | 27.91 |
| 2 | 2390.00 | 58.74 PK | 74.00 | -15.26 | 1.02 V | 97 | 26.63 | 32.11 |
| 2 | 2390.00 | 48.89 AV | 54.00 | -5.11 | 1.02 V | 97 | 16.78 | 32.11 |
| 3 | *2412.00 | 103.85 PK | | | 1.02 V | 97 | 71.66 | 32.19 |
| 3 | *2412.00 | 94.00 AV | | | 1.02 V | 97 | 61.81 | 32.19 |
| 4 | 4824.00 | 56.92 PK | 74.00 | -17.08 | 1.06 V | 231 | 18.27 | 38.65 |
| 4 | 4824.00 | 44.51 AV | 54.00 | -9.49 | 1.06 V | 231 | 5.86 | 38.65 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 7.2Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 42.17 PK | 74.00 | -31.83 | 1.01 H | 44 | 14.26 | 27.91 |
| 1 | 1120.00 | 32.67 AV | 54.00 | -21.33 | 1.01 H | 44 | 4.76 | 27.91 |
| 2 | *2437.00 | 107.14 PK | | | 1.00 H | 171 | 74.85 | 32.29 |
| 2 | *2437.00 | 97.15 AV | | | 1.00 H | 171 | 64.86 | 32.29 |
| 3 | 4874.00 | 51.93 PK | 74.00 | -22.07 | 1.13 H | 274 | 13.14 | 38.79 |
| 3 | 4874.00 | 39.52 AV | 54.00 | -14.48 | 1.13 H | 274 | 0.73 | 38.79 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.38 PK | 74.00 | -33.62 | 1.21 V | 348 | 12.47 | 27.91 |
| 1 | 1120.00 | 30.89 AV | 54.00 | -23.11 | 1.21 V | 348 | 2.98 | 27.91 |
| 2 | *2437.00 | 104.91 PK | | | 1.03 V | 100 | 72.62 | 32.29 |
| 2 | *2437.00 | 95.12 AV | | | 1.03 V | 100 | 62.83 | 32.29 |
| 3 | 4874.00 | 56.71 PK | 74.00 | -17.29 | 1.02 V | 334 | 17.92 | 38.79 |
| 3 | 4874.00 | 44.43 AV | 54.00 | -9.57 | 1.02 V | 334 | 5.64 | 38.79 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 7.2Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.95 PK | 74.00 | -32.05 | 1.02 H | 25 | 14.04 | 27.91 |
| 1 | 1120.00 | 32.46 AV | 54.00 | -21.54 | 1.02 H | 25 | 4.55 | 27.91 |
| 2 | *2462.00 | 106.22 PK | | | 1.00 H | 171 | 73.84 | 32.38 |
| 2 | *2462.00 | 96.75 AV | | | 1.00 H | 171 | 64.37 | 32.38 |
| 3 | 2483.50 | 59.64 PK | 74.00 | -14.36 | 1.00 H | 171 | 27.18 | 32.46 |
| 3 | 2483.50 | 50.17 AV | 54.00 | -3.83 | 1.00 H | 171 | 17.71 | 32.46 |
| 4 | 4924.00 | 51.74 PK | 74.00 | -22.26 | 1.09 H | 264 | 12.82 | 38.92 |
| 4 | 4924.00 | 39.26 AV | 54.00 | -14.74 | 1.09 H | 264 | 0.34 | 38.92 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.36 PK | 74.00 | -33.64 | 1.16 V | 322 | 12.45 | 27.91 |
| 1 | 1120.00 | 30.87 AV | 54.00 | -23.13 | 1.16 V | 322 | 2.96 | 27.91 |
| 2 | *2462.00 | 103.96 PK | | | 1.03 V | 98 | 71.58 | 32.38 |
| 2 | *2462.00 | 94.24 AV | | | 1.03 V | 98 | 61.86 | 32.38 |
| 3 | 2483.50 | 57.38 PK | 74.00 | -16.62 | 1.03 V | 98 | 24.92 | 32.46 |
| 3 | 2483.50 | 47.66 AV | 54.00 | -6.34 | 1.03 V | 98 | 15.20 | 32.46 |
| 4 | 4924.00 | 57.18 PK | 74.00 | -16.82 | 1.02 V | 356 | 18.26 | 38.92 |
| 4 | 4924.00 | 44.76 AV | 54.00 | -9.24 | 1.02 V | 356 | 5.84 | 38.92 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 14.444Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.86 PK | 74.00 | -33.14 | 1.05 H | 24 | 12.95 | 27.91 |
| 1 | 1120.00 | 31.35 AV | 54.00 | -22.65 | 1.05 H | 24 | 3.44 | 27.91 |
| 2 | 2390.00 | 61.49 PK | 74.00 | -12.51 | 1.43 H | 72 | 29.38 | 32.11 |
| 2 | 2390.00 | 50.64 AV | 54.00 | -3.36 | 1.43 H | 72 | 18.53 | 32.11 |
| 3 | *2412.00 | 108.28 PK | | | 1.43 H | 72 | 76.09 | 32.19 |
| 3 | *2412.00 | 97.43 AV | | | 1.43 H | 72 | 65.24 | 32.19 |
| 4 | 4824.00 | 51.67 PK | 74.00 | -22.33 | 1.08 H | 47 | 13.02 | 38.65 |
| 4 | 4824.00 | 39.06 AV | 54.00 | -14.94 | 1.08 H | 47 | 0.41 | 38.65 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.25 PK | 74.00 | -34.75 | 1.13 V | 256 | 11.34 | 27.91 |
| 1 | 1120.00 | 29.74 AV | 54.00 | -24.26 | 1.13 V | 256 | 1.83 | 27.91 |
| 2 | 2390.00 | 58.71 PK | 74.00 | -15.29 | 1.00 V | 102 | 26.60 | 32.11 |
| 2 | 2390.00 | 47.72 AV | 54.00 | -6.28 | 1.00 V | 102 | 15.61 | 32.11 |
| 3 | *2412.00 | 105.50 PK | | | 1.00 V | 102 | 73.31 | 32.19 |
| 3 | *2412.00 | 94.51 AV | | | 1.00 V | 102 | 62.32 | 32.19 |
| 4 | 4824.00 | 55.37 PK | 74.00 | -18.63 | 1.03 V | 27 | 16.72 | 38.65 |
| 4 | 4824.00 | 42.86 AV | 54.00 | -11.14 | 1.03 V | 27 | 4.21 | 38.65 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 14.444Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.87 PK | 74.00 | -33.13 | 1.02 H | 34 | 12.96 | 27.91 |
| 1 | 1120.00 | 31.39 AV | 54.00 | -22.61 | 1.02 H | 34 | 3.48 | 27.91 |
| 2 | *2437.00 | 108.15 PK | | | 1.40 H | 72 | 75.86 | 32.29 |
| 2 | *2437.00 | 97.07 AV | | | 1.40 H | 72 | 64.78 | 32.29 |
| 3 | 4874.00 | 51.96 PK | 74.00 | -22.04 | 1.01 H | 127 | 13.17 | 38.79 |
| 3 | 4874.00 | 39.38 AV | 54.00 | -14.62 | 1.01 H | 127 | 0.59 | 38.79 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.13 PK | 74.00 | -33.87 | 1.12 V | 246 | 12.22 | 27.91 |
| 1 | 1120.00 | 30.64 AV | 54.00 | -23.36 | 1.12 V | 246 | 2.73 | 27.91 |
| 2 | *2437.00 | 105.49 PK | | | 1.00 V | 107 | 73.20 | 32.29 |
| 2 | *2437.00 | 94.48 AV | | | 1.00 V | 107 | 62.19 | 32.29 |
| 3 | 4874.00 | 55.52 PK | 74.00 | -18.48 | 1.12 V | 230 | 16.73 | 38.79 |
| 3 | 4874.00 | 43.06 AV | 54.00 | -10.94 | 1.12 V | 230 | 4.27 | 38.79 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 14.444Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.79 PK | 74.00 | -33.21 | 1.07 H | 59 | 12.88 | 27.91 |
| 1 | 1120.00 | 31.28 AV | 54.00 | -22.72 | 1.07 H | 59 | 3.37 | 27.91 |
| 2 | *2462.00 | 108.01 PK | | | 1.41 H | 75 | 75.63 | 32.38 |
| 2 | *2462.00 | 96.96 AV | | | 1.41 H | 75 | 64.58 | 32.38 |
| 3 | 2483.50 | 61.19 PK | 74.00 | -12.81 | 1.41 H | 75 | 28.73 | 32.46 |
| 3 | 2483.50 | 50.14 AV | 54.00 | -3.86 | 1.41 H | 75 | 17.68 | 32.46 |
| 4 | 4924.00 | 51.83 PK | 74.00 | -22.17 | 1.02 H | 60 | 12.91 | 38.92 |
| 4 | 4924.00 | 39.24 AV | 54.00 | -14.76 | 1.02 H | 60 | 0.32 | 38.92 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.66 PK | 74.00 | -34.34 | 1.14 V | 239 | 11.75 | 27.91 |
| 1 | 1120.00 | 30.12 AV | 54.00 | -23.88 | 1.14 V | 239 | 2.21 | 27.91 |
| 2 | *2462.00 | 105.36 PK | | | 1.01 V | 105 | 72.98 | 32.38 |
| 2 | *2462.00 | 94.34 AV | | | 1.01 V | 105 | 61.96 | 32.38 |
| 3 | 2483.50 | 58.54 PK | 74.00 | -15.46 | 1.01 V | 105 | 26.08 | 32.46 |
| 3 | 2483.50 | 47.52 AV | 54.00 | -6.48 | 1.01 V | 105 | 15.06 | 32.46 |
| 4 | 4924.00 | 55.63 PK | 74.00 | -18.37 | 1.08 V | 236 | 16.71 | 38.92 |
| 4 | 4924.00 | 43.14 AV | 54.00 | -10.86 | 1.08 V | 236 | 4.22 | 38.92 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

DRAFT 802.11n (40MHz) OFDM MODULATION: SINGLE TX:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 15Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------|----------------|--------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.19 PK | 74.00 | -32.81 | 1.02 H | 46 | 13.28 | 27.91 |
| 1 | 1120.00 | 31.72 AV | 54.00 | -22.28 | 1.02 H | 46 | 3.81 | 27.91 |
| 2 | 2390.00 | 62.46 PK | 74.00 | -11.54 | 1.07 H | 131 | 30.35 | 32.11 |
| 2 | 2390.00 | 52.74 AV | 54.00 | -1.26 | 1.07 H | 131 | 20.63 | 32.11 |
| 3 | *2422.00 | 105.07 PK | | | 1.07 H | 131 | 72.84 | 32.23 |
| 3 | *2422.00 | 95.35 AV | | | 1.07 H | 131 | 63.12 | 32.23 |
| 4 | 4844.00 | 51.66 PK | 74.00 | -22.34 | 1.07 H | 239 | 12.96 | 38.70 |
| 4 | 4844.00 | 39.04 AV | 54.00 | -14.96 | 1.07 H | 239 | 0.34 | 38.70 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.97 PK | 74.00 | -34.03 | 1.05 V | 67 | 12.06 | 27.91 |
| 1 | 1120.00 | 30.42 AV | 54.00 | -23.58 | 1.05 V | 67 | 2.51 | 27.91 |
| 2 | 2390.00 | 58.18 PK | 74.00 | -15.82 | 1.04 V | 86 | 26.07 | 32.11 |
| 2 | 2390.00 | 49.21 AV | 54.00 | -4.79 | 1.04 V | 86 | 17.10 | 32.11 |
| 3 | *2422.00 | 100.79 PK | | | 1.04 V | 86 | 68.56 | 32.23 |
| 3 | *2422.00 | 91.82 AV | | | 1.04 V | 86 | 59.59 | 32.23 |
| 4 | 4844.00 | 52.96 PK | 74.00 | -21.04 | 1.07 V | 84 | 14.26 | 38.70 |
| 4 | 4844.00 | 40.45 AV | 54.00 | -13.55 | 1.07 V | 84 | 1.75 | 38.70 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 4 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 15Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.26 PK | 74.00 | -32.74 | 1.05 H | 46 | 13.35 | 27.91 |
| 1 | 1120.00 | 31.79 AV | 54.00 | -22.21 | 1.05 H | 46 | 3.88 | 27.91 |
| 2 | 2390.00 | 60.75 PK | 74.00 | -13.25 | 1.00 H | 135 | 28.64 | 32.11 |
| 2 | 2390.00 | 48.76 AV | 54.00 | -5.24 | 1.00 H | 135 | 16.65 | 32.11 |
| 3 | *2437.00 | 105.76 PK | | | 1.00 H | 135 | 73.47 | 32.29 |
| 3 | *2437.00 | 96.01 AV | | | 1.00 H | 135 | 63.72 | 32.29 |
| 4 | 2483.50 | 62.96 PK | 74.00 | -11.04 | 1.00 H | 135 | 30.50 | 32.46 |
| 4 | 2483.50 | 50.01 AV | 54.00 | -3.99 | 1.00 H | 135 | 17.55 | 32.46 |
| 5 | 4874.00 | 53.87 PK | 74.00 | -20.13 | 1.06 H | 248 | 15.08 | 38.79 |
| 5 | 4874.00 | 41.29 AV | 54.00 | -12.71 | 1.06 H | 248 | 2.50 | 38.79 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 42.87 PK | 74.00 | -31.13 | 1.07 V | 231 | 14.96 | 27.91 |
| 1 | 1120.00 | 32.96 AV | 54.00 | -21.04 | 1.07 V | 231 | 5.05 | 27.91 |
| 2 | 2390.00 | 58.56 PK | 74.00 | -15.44 | 1.00 V | 98 | 26.45 | 32.11 |
| 2 | 2390.00 | 47.24 AV | 54.00 | -6.76 | 1.00 V | 98 | 15.13 | 32.11 |
| 3 | *2437.00 | 101.47 PK | | | 1.00 V | 98 | 69.18 | 32.29 |
| 3 | *2437.00 | 91.81 AV | | | 1.00 V | 98 | 59.52 | 32.29 |
| 4 | 2483.50 | 59.41 PK | 74.00 | -14.59 | 1.00 V | 98 | 26.95 | 32.46 |
| 4 | 2483.50 | 47.20 AV | 54.00 | -6.80 | 1.00 V | 98 | 14.74 | 32.46 |
| 5 | 4874.00 | 54.69 PK | 74.00 | -19.31 | 1.09 V | 92 | 15.90 | 38.79 |
| 5 | 4874.00 | 42.58 AV | 54.00 | -11.42 | 1.09 V | 92 | 3.79 | 38.79 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 7 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 15Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.93 PK | 74.00 | -33.07 | 1.07 H | 29 | 13.02 | 27.91 |
| 1 | 1120.00 | 31.46 AV | 54.00 | -22.54 | 1.07 H | 29 | 3.55 | 27.91 |
| 2 | *2452.00 | 105.38 PK | | | 1.08 H | 129 | 73.04 | 32.34 |
| 2 | *2452.00 | 95.70 AV | | | 1.08 H | 129 | 63.36 | 32.34 |
| 3 | 2483.50 | 61.87 PK | 74.00 | -12.13 | 1.06 H | 129 | 29.41 | 32.46 |
| 3 | 2483.50 | 52.19 AV | 54.00 | -1.81 | 1.06 H | 129 | 19.73 | 32.46 |
| 4 | 4904.00 | 51.76 PK | 74.00 | -22.24 | 1.04 H | 63 | 12.89 | 38.87 |
| 4 | 4904.00 | 39.18 AV | 54.00 | -14.82 | 1.04 H | 63 | 0.31 | 38.87 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 39.81 PK | 74.00 | -34.19 | 1.03 V | 49 | 11.90 | 27.91 |
| 1 | 1120.00 | 30.26 AV | 54.00 | -23.74 | 1.03 V | 49 | 2.35 | 27.91 |
| 2 | *2452.00 | 100.87 PK | | | 1.02 V | 79 | 68.53 | 32.34 |
| 2 | *2452.00 | 91.89 AV | | | 1.02 V | 79 | 59.55 | 32.34 |
| 3 | 2483.50 | 57.36 PK | 74.00 | -16.64 | 1.02 V | 79 | 24.90 | 32.46 |
| 3 | 2483.50 | 48.38 AV | 54.00 | -5.62 | 1.02 V | 79 | 15.92 | 32.46 |
| 4 | 4904.00 | 52.83 PK | 74.00 | -21.17 | 1.06 V | 97 | 13.96 | 38.87 |
| 4 | 4904.00 | 40.31 AV | 54.00 | -13.69 | 1.06 V | 97 | 1.44 | 38.87 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 30Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.86 PK | 74.00 | -32.14 | 1.05 H | 72 | 13.95 | 27.91 |
| 1 | 1120.00 | 32.41 AV | 54.00 | -21.59 | 1.05 H | 72 | 4.50 | 27.91 |
| 2 | 2390.00 | 61.77 PK | 74.00 | -12.23 | 1.00 H | 172 | 29.66 | 32.11 |
| 2 | 2390.00 | 51.57 AV | 54.00 | -2.43 | 1.00 H | 172 | 19.46 | 32.11 |
| 3 | *2422.00 | 104.18 PK | | | 1.00 H | 172 | 71.95 | 32.23 |
| 3 | *2422.00 | 93.98 AV | | | 1.00 H | 172 | 61.75 | 32.23 |
| 4 | 4844.00 | 52.13 PK | 74.00 | -21.87 | 1.03 H | 211 | 13.43 | 38.70 |
| 4 | 4844.00 | 39.56 AV | 54.00 | -14.44 | 1.03 H | 211 | 0.86 | 38.70 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.24 PK | 74.00 | -33.76 | 1.05 V | 287 | 12.33 | 27.91 |
| 1 | 1120.00 | 30.71 AV | 54.00 | -23.29 | 1.05 V | 287 | 2.80 | 27.91 |
| 2 | 2390.00 | 60.18 PK | 74.00 | -13.82 | 1.00 V | 105 | 28.07 | 32.11 |
| 2 | 2390.00 | 49.64 AV | 54.00 | -4.36 | 1.00 V | 105 | 17.53 | 32.11 |
| 3 | *2422.00 | 101.59 PK | | | 1.00 V | 105 | 69.36 | 32.23 |
| 3 | *2422.00 | 91.05 AV | | | 1.00 V | 105 | 58.82 | 32.23 |
| 4 | 4844.00 | 52.83 PK | 74.00 | -21.17 | 1.06 V | 72 | 14.13 | 38.70 |
| 4 | 4844.00 | 40.31 AV | 54.00 | -13.69 | 1.06 V | 72 | 1.61 | 38.70 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 4 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 30Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.57 PK | 74.00 | -32.43 | 1.07 H | 89 | 13.66 | 27.91 |
| 1 | 1120.00 | 32.16 AV | 54.00 | -21.84 | 1.07 H | 89 | 4.25 | 27.91 |
| 2 | 2390.00 | 59.77 PK | 74.00 | -14.23 | 1.01 H | 179 | 27.66 | 32.11 |
| 2 | 2390.00 | 49.58 AV | 54.00 | -4.42 | 1.01 H | 179 | 17.47 | 32.11 |
| 3 | *2437.00 | 104.24 PK | | | 1.01 H | 179 | 71.95 | 32.29 |
| 3 | *2437.00 | 94.05 AV | | | 1.01 H | 179 | 61.76 | 32.29 |
| 4 | 2483.50 | 59.56 PK | 74.00 | -14.44 | 1.01 H | 179 | 27.10 | 32.46 |
| 4 | 2483.50 | 49.37 AV | 54.00 | -4.63 | 1.01 H | 179 | 16.91 | 32.46 |
| 5 | 4874.00 | 52.38 PK | 74.00 | -21.62 | 1.05 H | 237 | 13.59 | 38.79 |
| 5 | 4874.00 | 39.78 AV | 54.00 | -14.22 | 1.05 H | 237 | 0.99 | 38.79 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.68 PK | 74.00 | -32.32 | 1.05 V | 218 | 13.77 | 27.91 |
| 1 | 1120.00 | 32.29 AV | 54.00 | -21.71 | 1.05 V | 218 | 4.38 | 27.91 |
| 2 | 2390.00 | 57.18 PK | 74.00 | -16.82 | 1.01 V | 108 | 25.07 | 32.11 |
| 2 | 2390.00 | 46.70 AV | 54.00 | -7.30 | 1.01 V | 108 | 14.59 | 32.11 |
| 3 | *2437.00 | 101.65 PK | | | 1.01 V | 108 | 69.36 | 32.29 |
| 3 | *2437.00 | 91.17 AV | | | 1.01 V | 108 | 58.88 | 32.29 |
| 4 | 2483.50 | 56.97 PK | 74.00 | -17.03 | 1.01 V | 108 | 24.51 | 32.46 |
| 4 | 2483.50 | 46.49 AV | 54.00 | -7.51 | 1.01 V | 108 | 14.03 | 32.46 |
| 5 | 4874.00 | 52.96 PK | 74.00 | -21.04 | 1.05 V | 261 | 14.17 | 38.79 |
| 5 | 4874.00 | 40.57 AV | 54.00 | -13.43 | 1.05 V | 261 | 1.78 | 38.79 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|--------------------------|----------------------------|----------------------|--------------------------|
| CHANNEL | Channel 7 | FREQUENCY RANGE | 1 ~ 25GHz |
| MODULATION TYPE | BPSK | INPUT POWER (SYSTEM) | 120Vac, 60 Hz |
| TRANSFER RATE | 30Mbps | DETECTOR FUNCTION | Peak(PK) Average (AV) |
| ENVIRONMENTAL CONDITIONS | 22deg. C, 64%RH, 991hPa | TESTED BY | Brad Wu |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 41.98 PK | 74.00 | -32.02 | 1.07 H | 82 | 14.07 | 27.91 |
| 1 | 1120.00 | 32.56 AV | 54.00 | -21.44 | 1.07 H | 82 | 4.65 | 27.91 |
| 2 | *2452.00 | 104.29 PK | | | 1.01 H | 175 | 71.95 | 32.34 |
| 2 | *2452.00 | 94.13 AV | | | 1.01 H | 175 | 61.79 | 32.34 |
| 3 | 2483.50 | 61.59 PK | 74.00 | -12.41 | 1.01 H | 175 | 29.13 | 32.46 |
| 3 | 2483.50 | 51.43 AV | 54.00 | -2.57 | 1.01 H | 175 | 18.97 | 32.46 |
| 4 | 4904.00 | 52.47 PK | 74.00 | -21.53 | 1.01 H | 264 | 13.60 | 38.87 |
| 4 | 4904.00 | 39.91 AV | 54.00 | -14.09 | 1.01 H | 264 | 1.04 | 38.87 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 1120.00 | 40.36 PK | 74.00 | -33.64 | 1.09 V | 234 | 12.45 | 27.91 |
| 1 | 1120.00 | 30.85 AV | 54.00 | -23.15 | 1.09 V | 234 | 2.94 | 27.91 |
| 2 | *2452.00 | 101.68 PK | | | 1.02 V | 109 | 69.34 | 32.34 |
| 2 | *2452.00 | 91.12 AV | | | 1.02 V | 109 | 58.78 | 32.34 |
| 3 | 2483.50 | 58.98 PK | 74.00 | -15.02 | 1.02 V | 109 | 26.52 | 32.46 |
| 3 | 2483.50 | 48.42 AV | 54.00 | -5.58 | 1.02 V | 109 | 15.96 | 32.46 |
| 4 | 4904.00 | 53.96 PK | 74.00 | -20.04 | 1.08 V | 21 | 15.09 | 38.87 |
| 4 | 4904.00 | 41.35 AV | 54.00 | -12.65 | 1.08 V | 21 | 2.48 | 38.87 |

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER | FSEK 30 | 100049 | Aug. 14, 2006 |

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

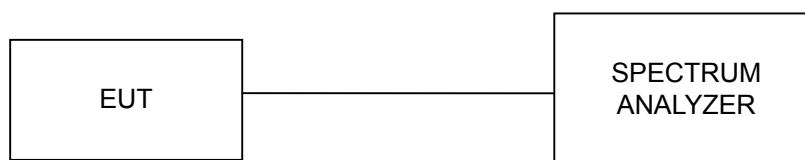
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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

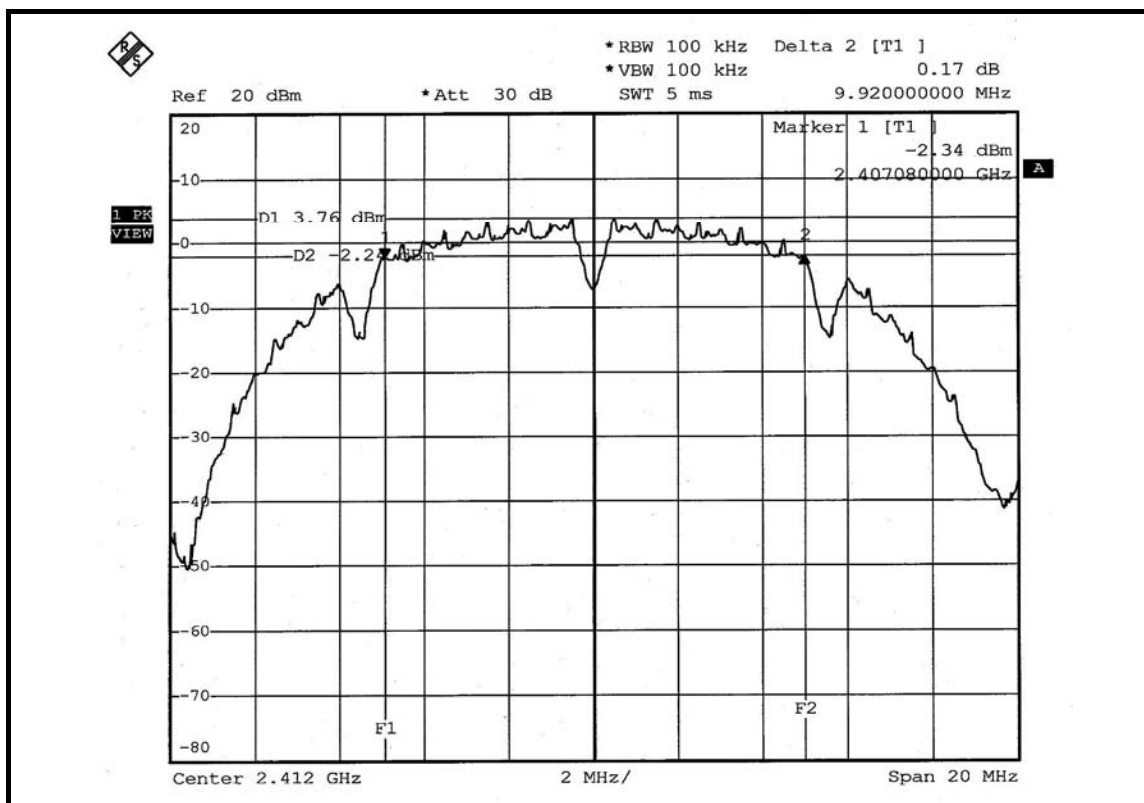
4.3.7 TEST RESULTS

802.11b DSSS MODULATION:

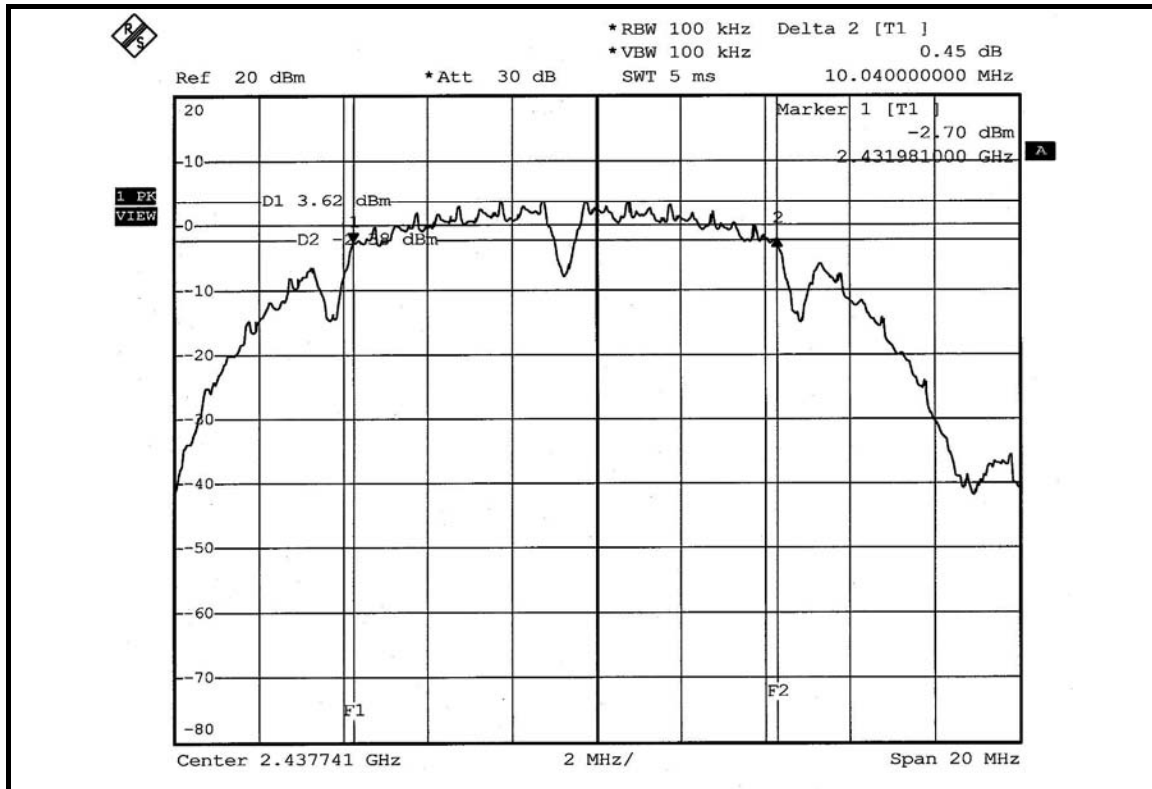
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | DBPSK | TRANSFER RATE | 1Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-------------------------|---------------------|---------------------|-------------|
| 1 | 2412 | 9.92 | 0.5 | PASS |
| 6 | 2437 | 10.04 | 0.5 | PASS |
| 11 | 2462 | 9.96 | 0.5 | PASS |

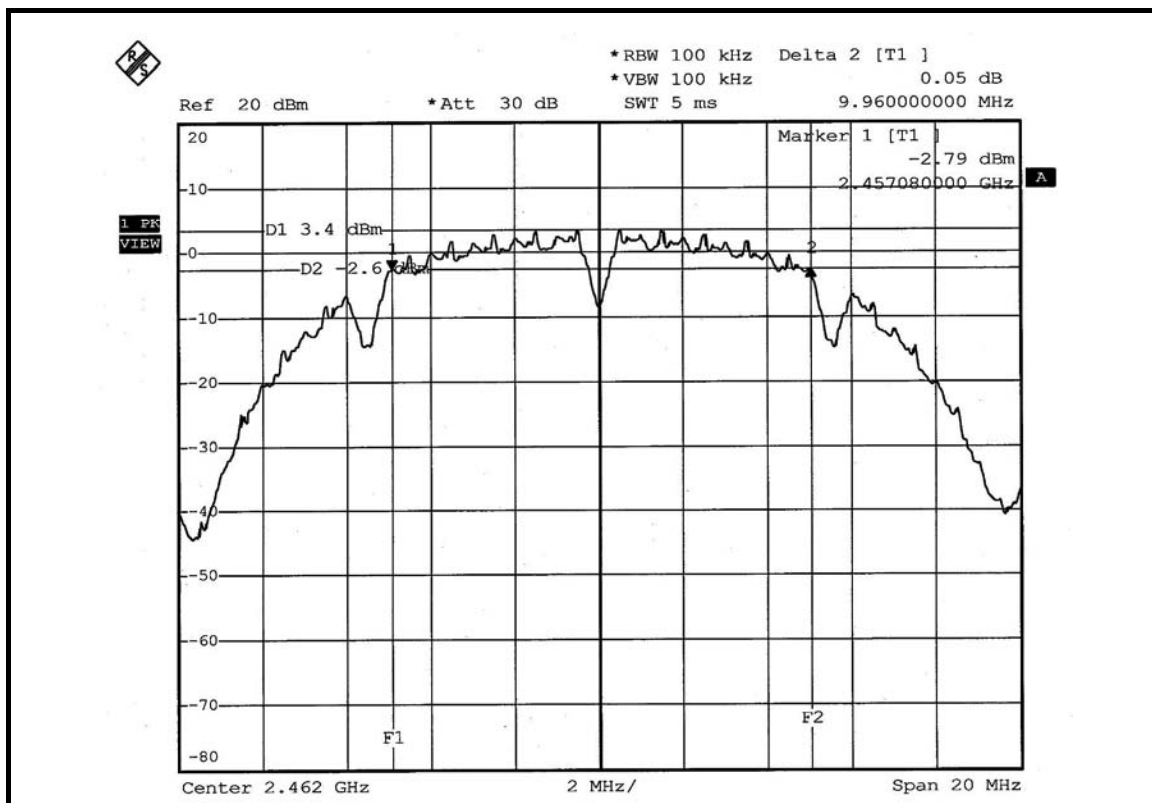
CH 1



CH 6



CH 11

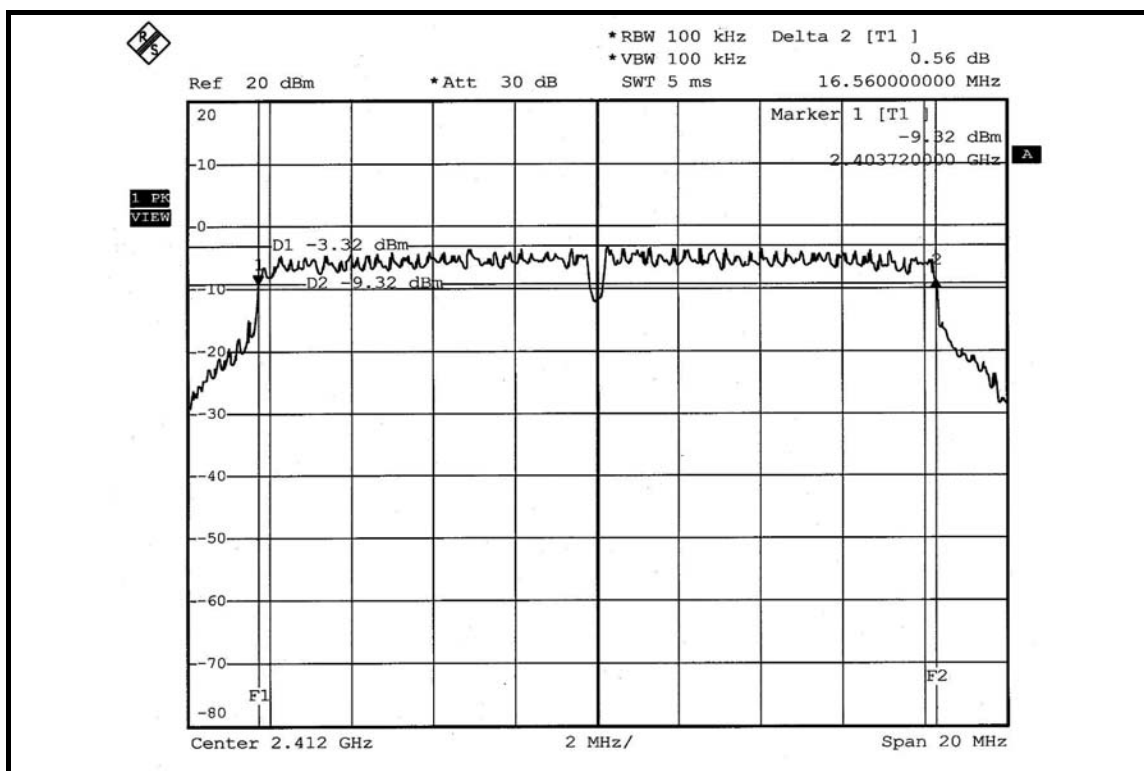


802.11g OFDM MODULATION:

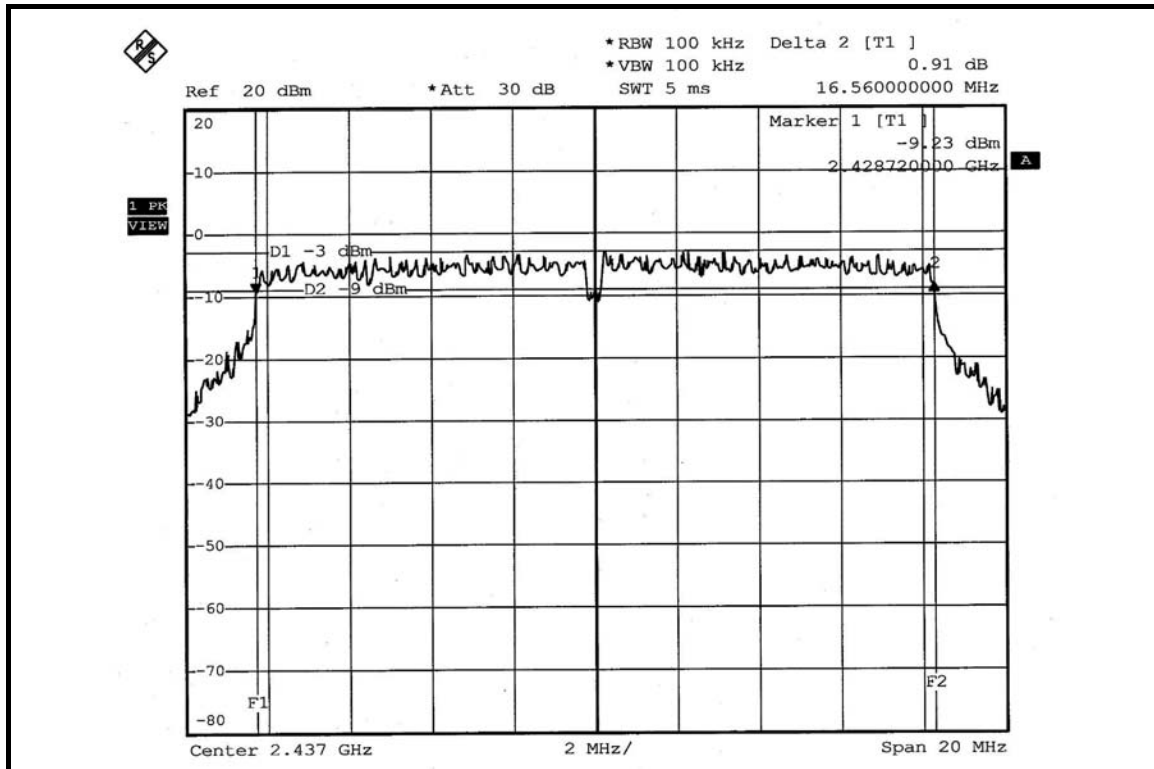
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-------------------------|---------------------|---------------------|-------------|
| 1 | 2412 | 16.56 | 0.5 | PASS |
| 6 | 2437 | 16.56 | 0.5 | PASS |
| 11 | 2462 | 16.56 | 0.5 | PASS |

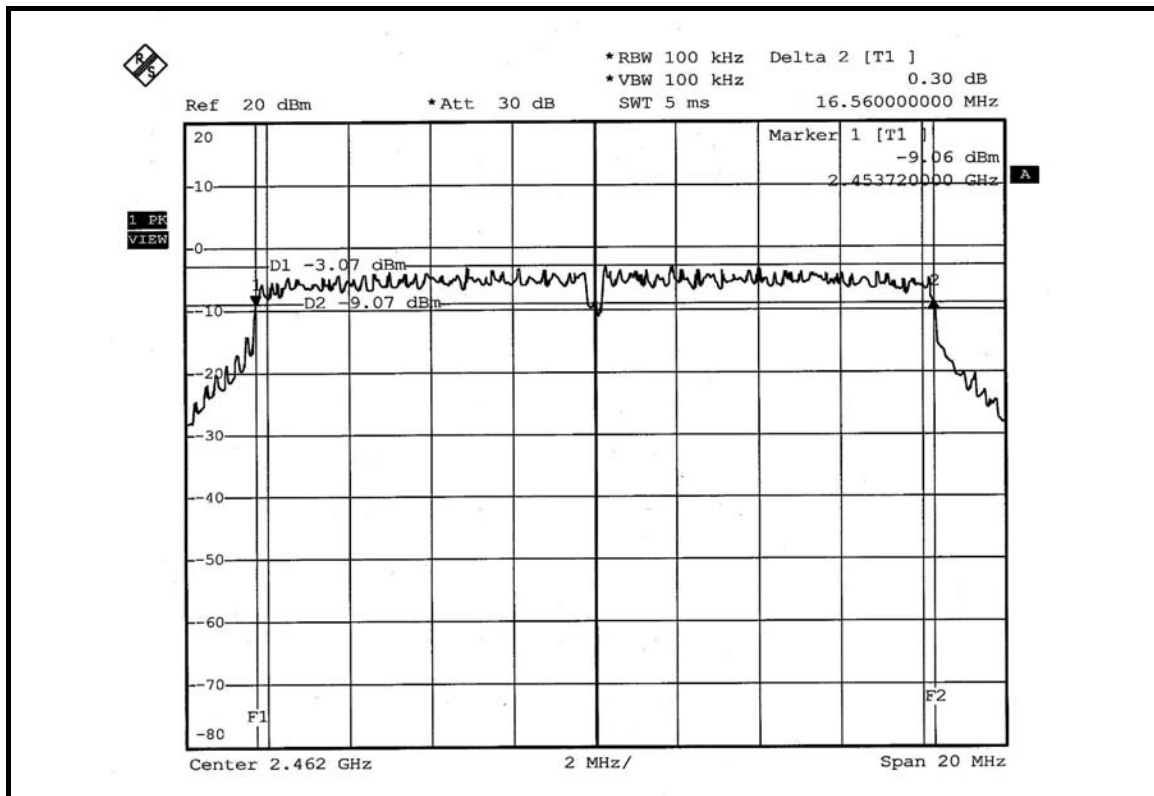
CH 1



CH 6



CH 11

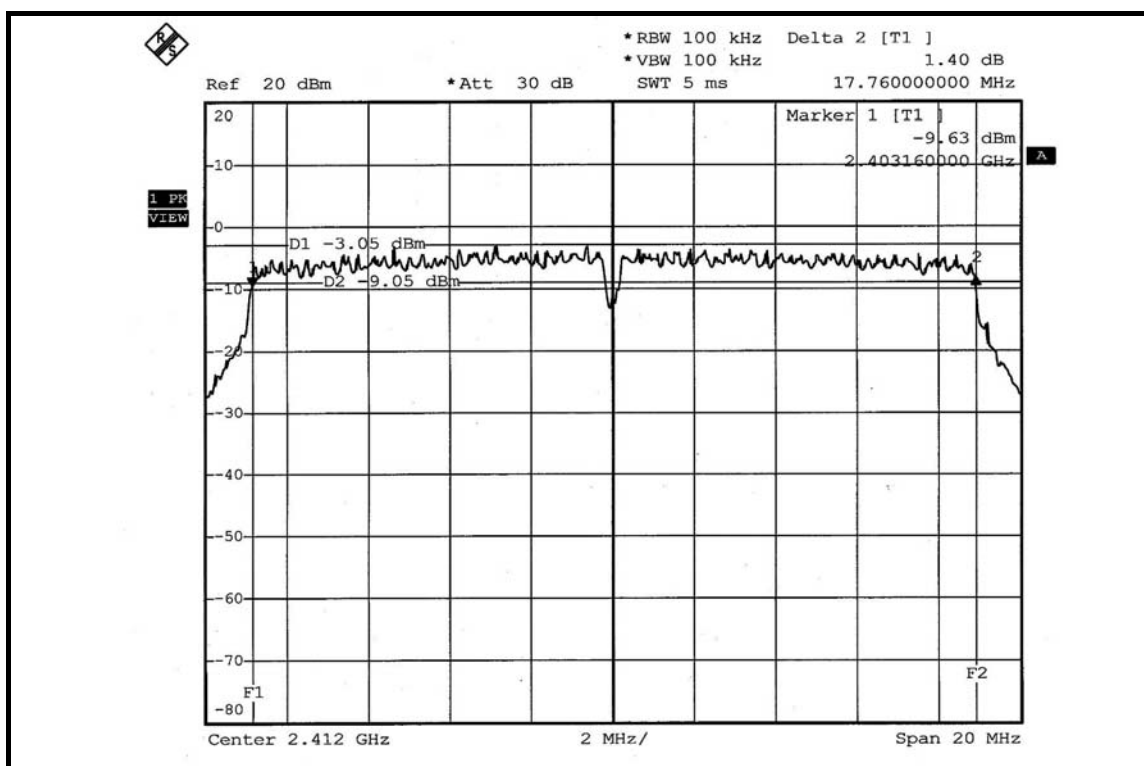


DRAFT 802.11n (20MHz) OFDM MODULATION: SINGLE TX:

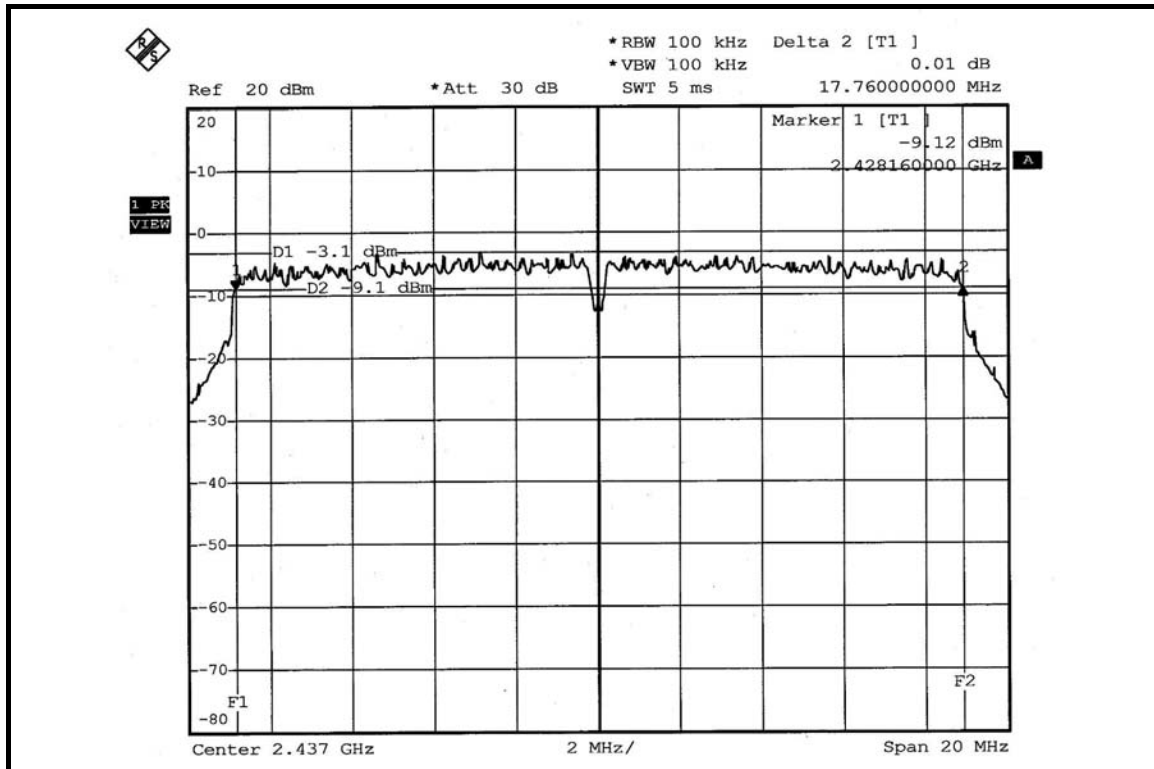
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 7.2Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-------------------------|---------------------|---------------------|-------------|
| 1 | 2412 | 17.76 | 0.5 | PASS |
| 6 | 2437 | 17.76 | 0.5 | PASS |
| 11 | 2462 | 17.72 | 0.5 | PASS |

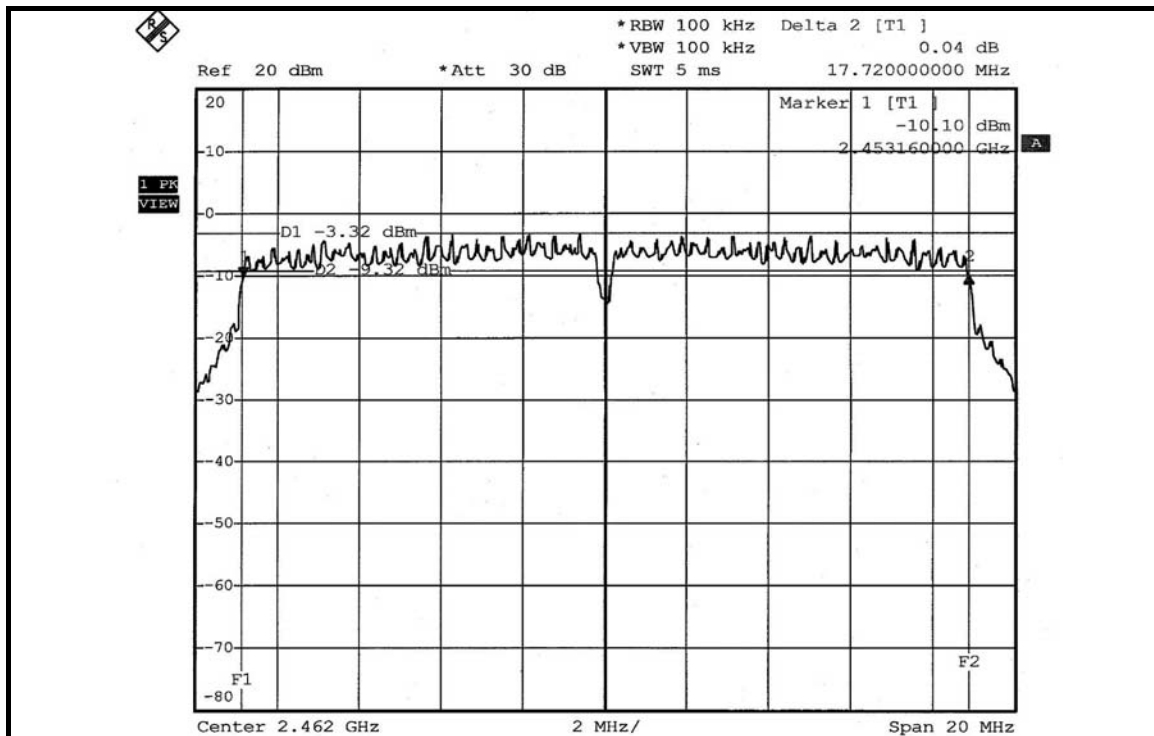
CH 1



CH 6



CH 11

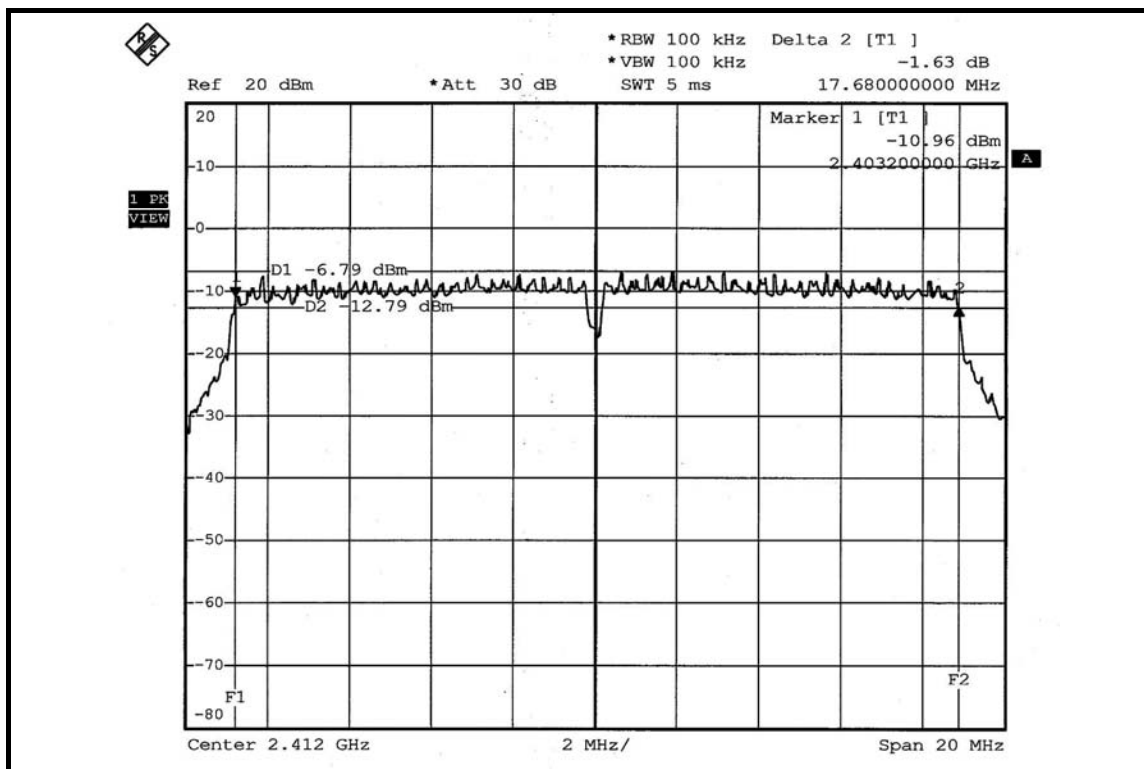


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

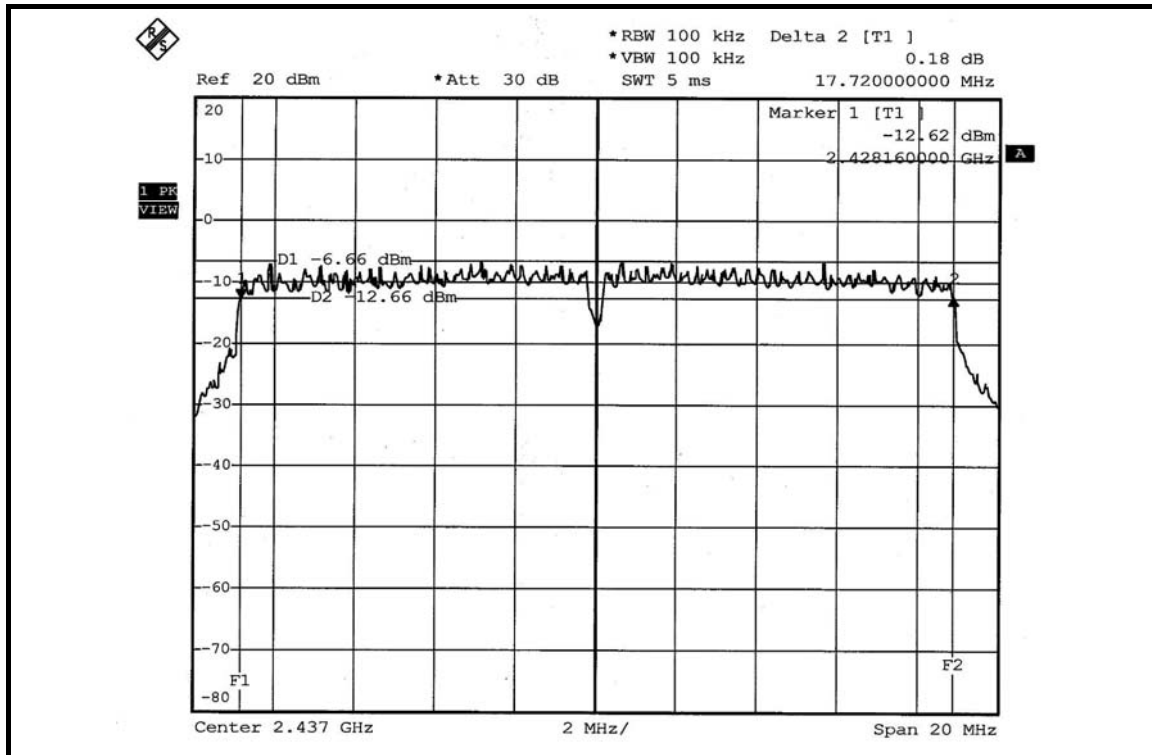
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 14.444Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-------------------------|---------------------|---------|---------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | | |
| 1 | 2412 | 17.68 | 17.76 | 0.5 | PASS |
| 6 | 2437 | 17.72 | 17.72 | 0.5 | PASS |
| 11 | 2462 | 17.76 | 17.68 | 0.5 | PASS |

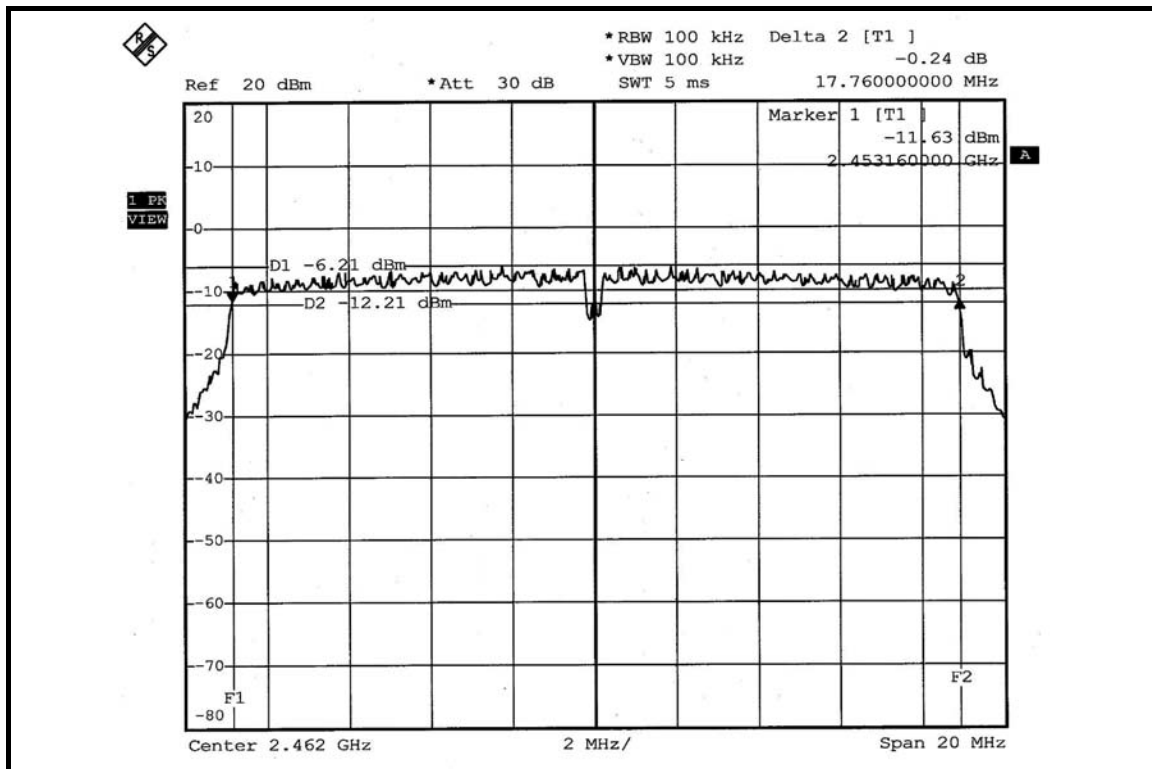
FOR CHAIN 0: CH 1



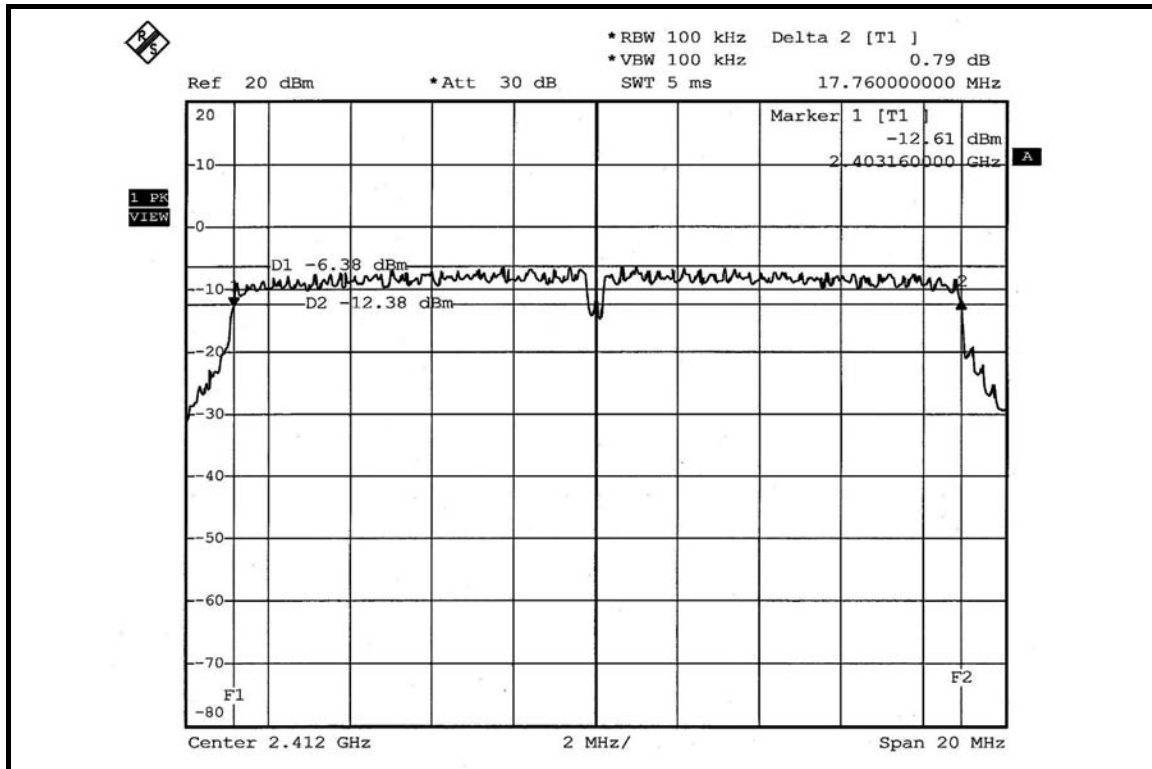
CH 6



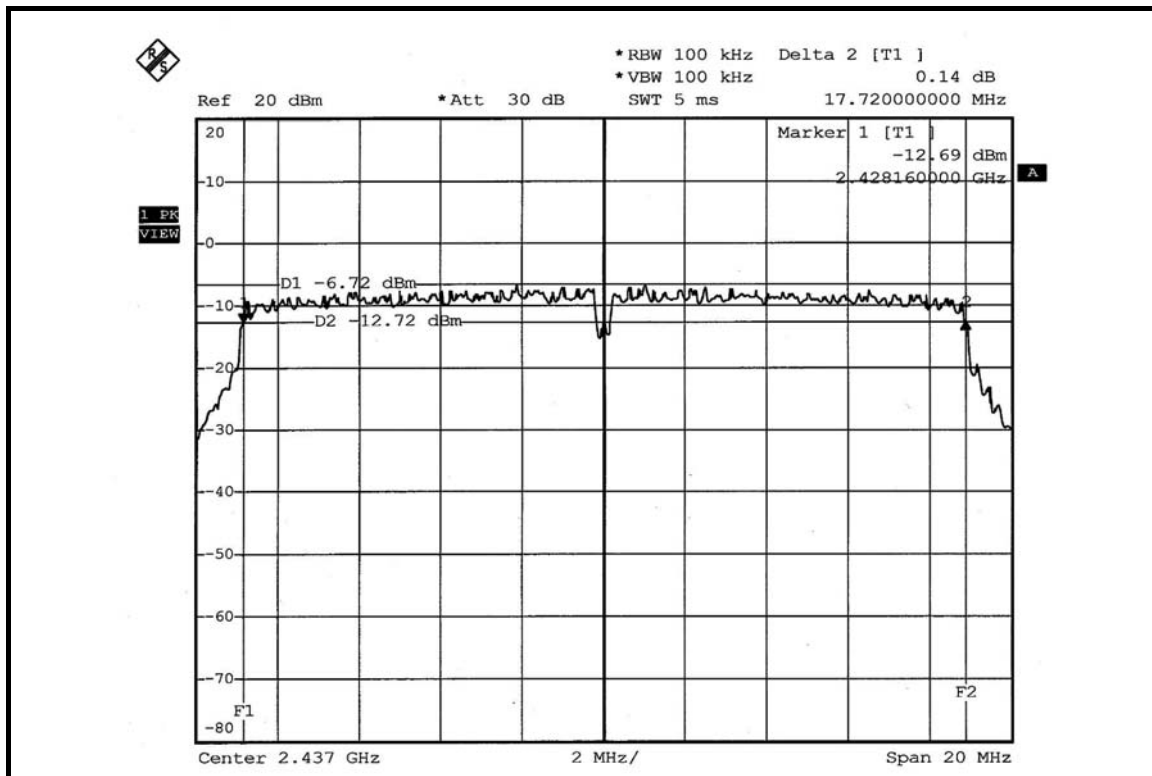
CH 11



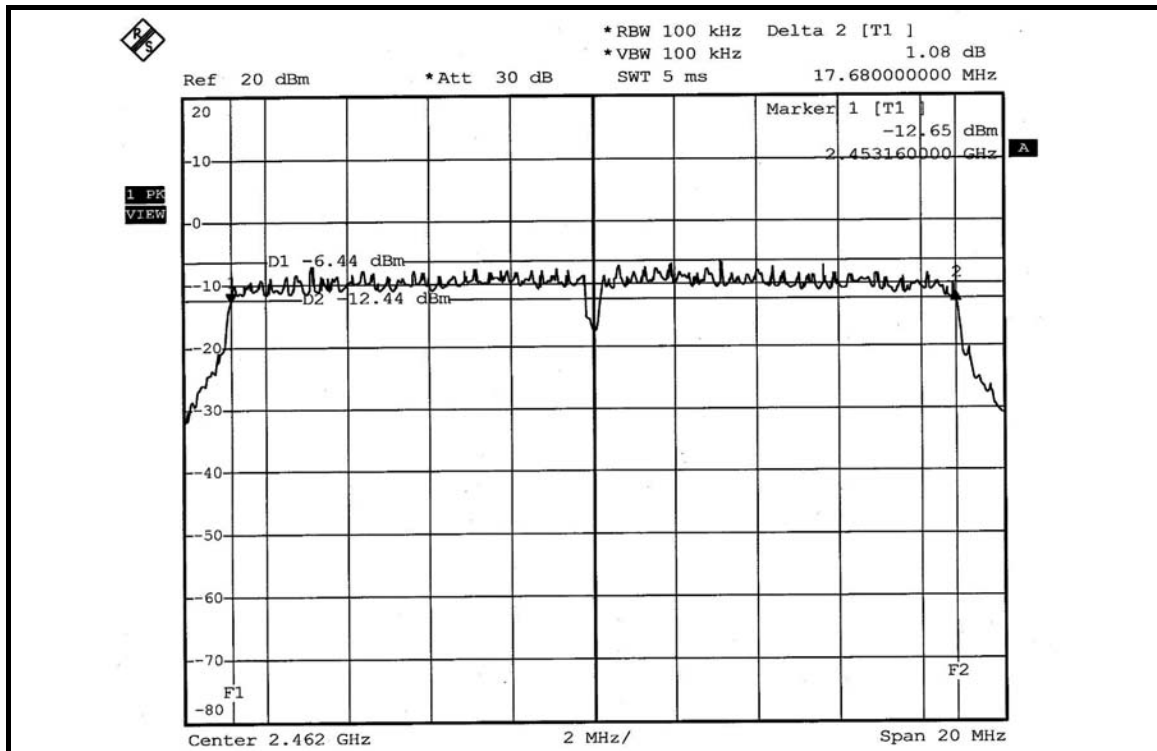
FOR CHAIN 1: CH 1



CH 6



CH 11

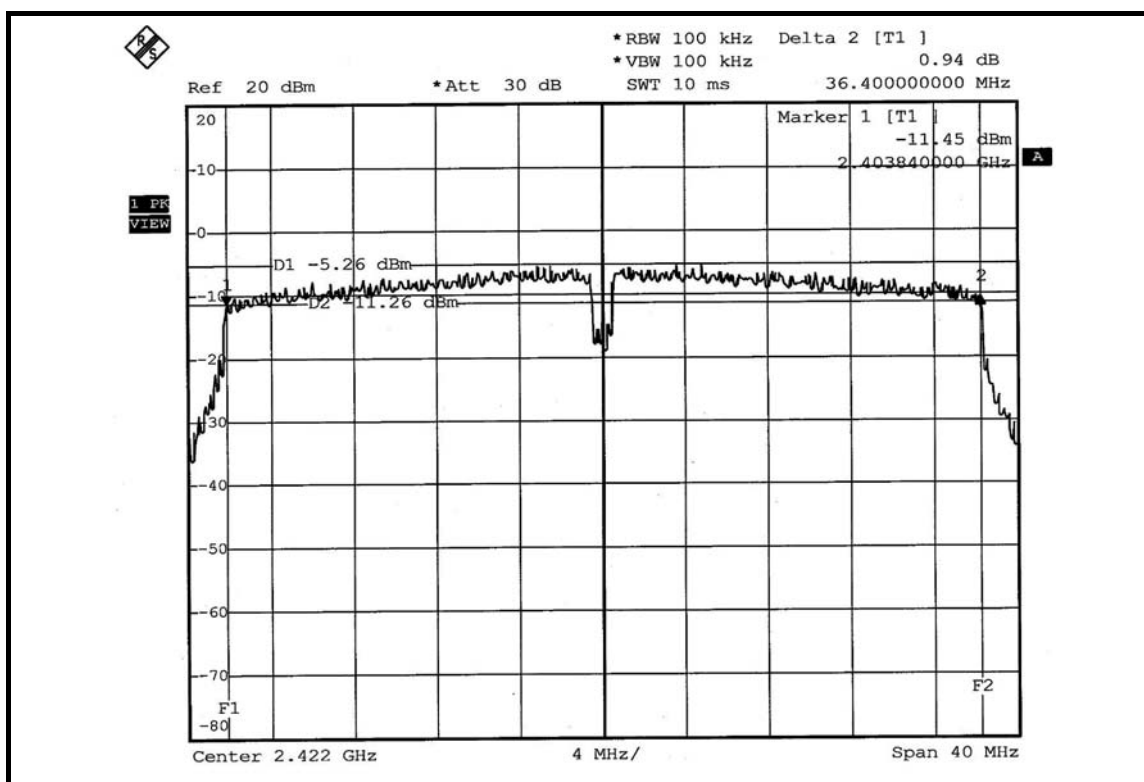


DRAFT 802.11n (40MHz) OFDM MODULATION: SINGLE TX:

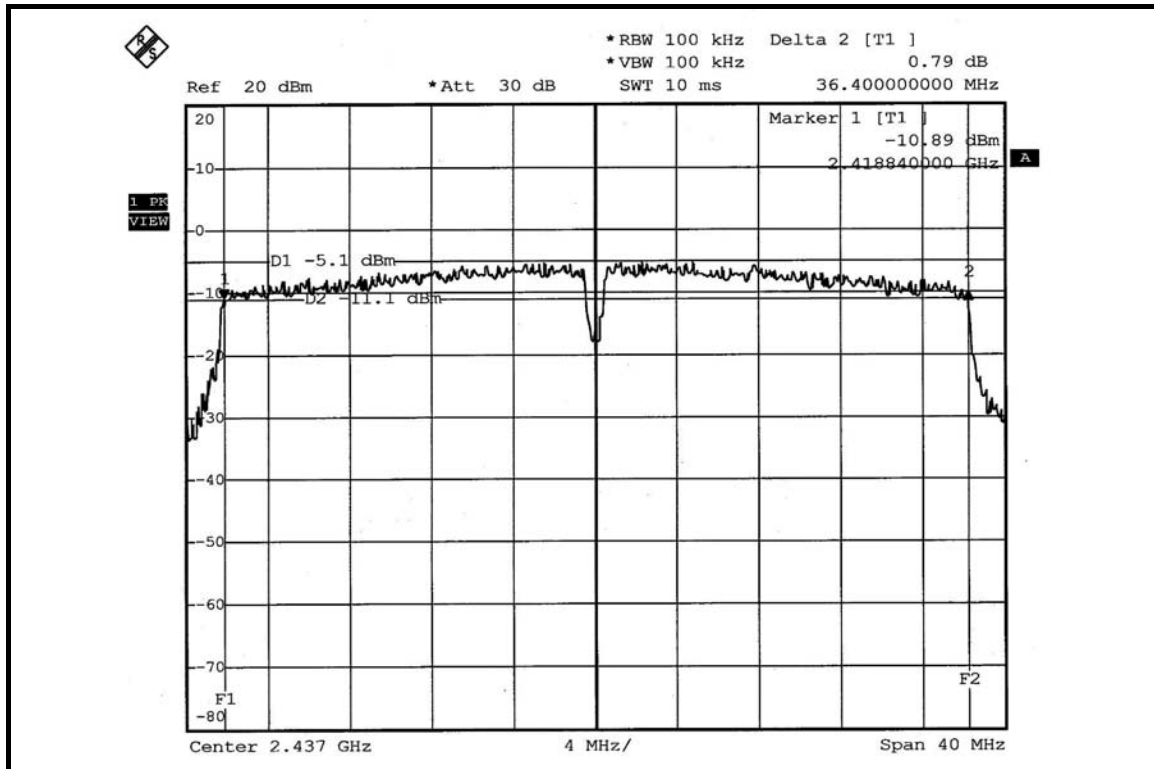
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 15Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-------------------------|---------------------|---------------------|-------------|
| 1 | 2422 | 36.40 | 0.5 | PASS |
| 4 | 2437 | 36.40 | 0.5 | PASS |
| 7 | 2452 | 36.32 | 0.5 | PASS |

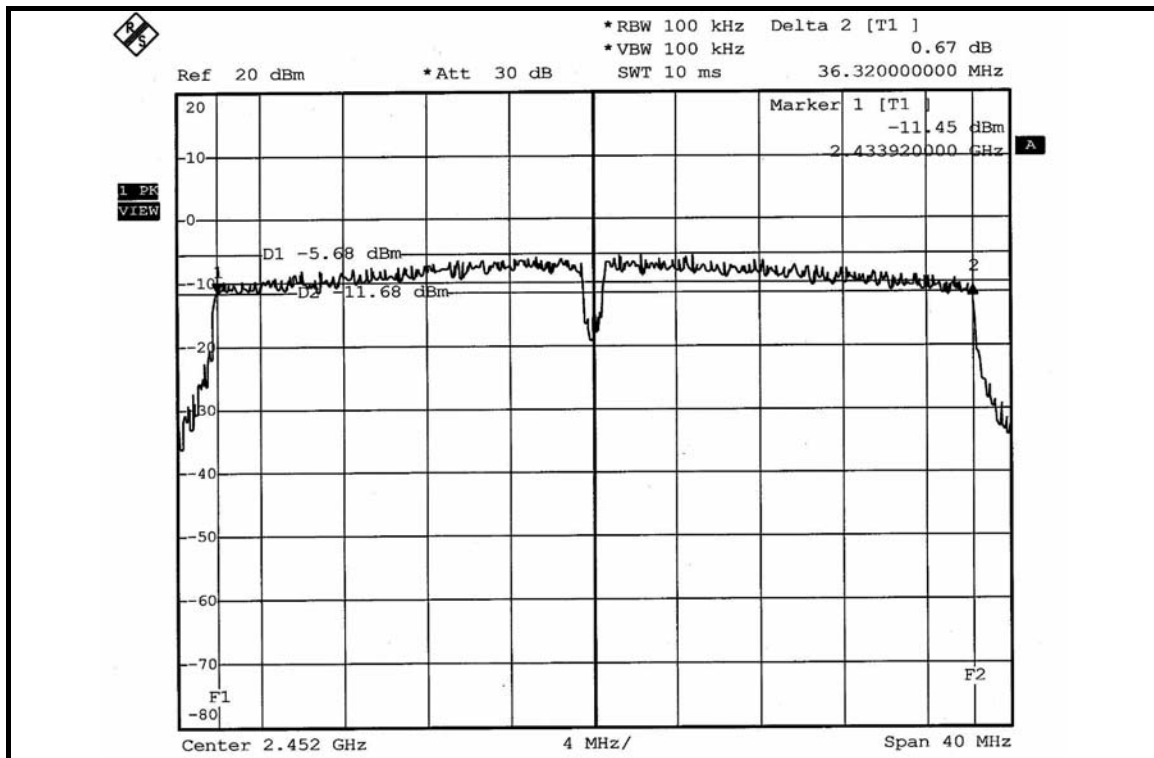
CH 1



CH 4



CH 7

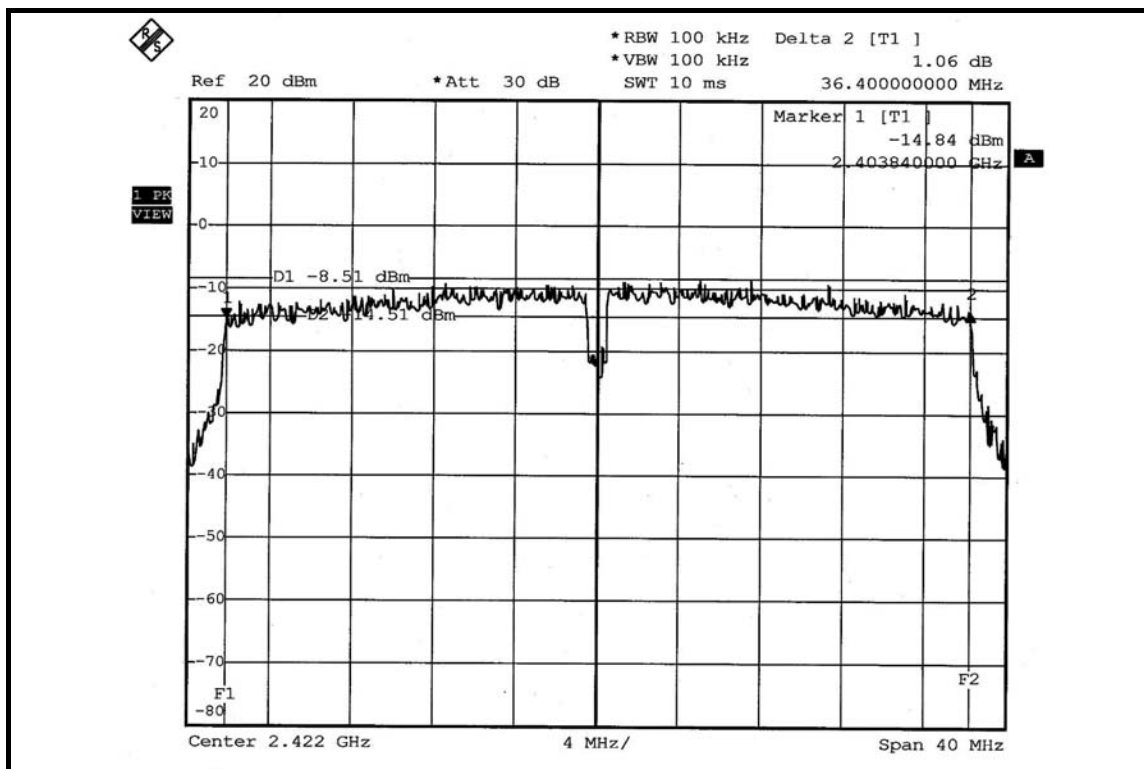


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

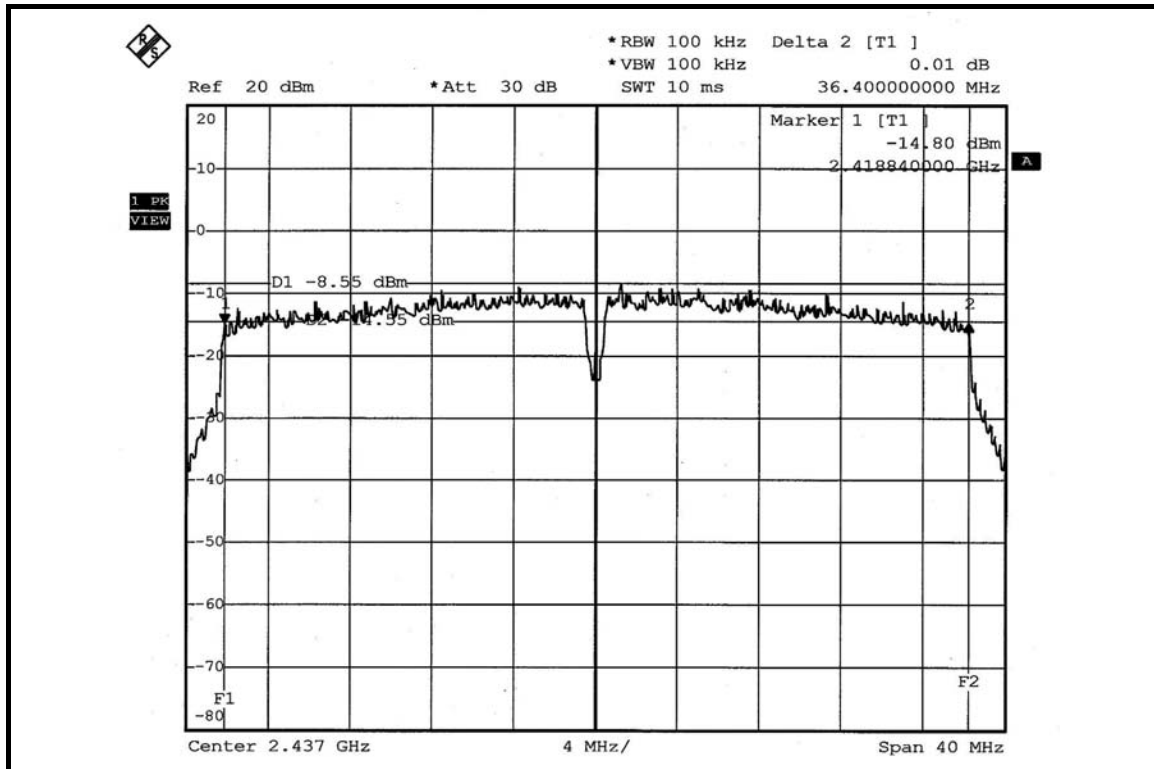
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 30Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---------|-------------------------|---------------------|---------|---------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | | |
| 1 | 2422 | 36.40 | 36.16 | 0.5 | PASS |
| 4 | 2437 | 36.40 | 36.40 | 0.5 | PASS |
| 7 | 2452 | 36.40 | 36.24 | 0.5 | PASS |

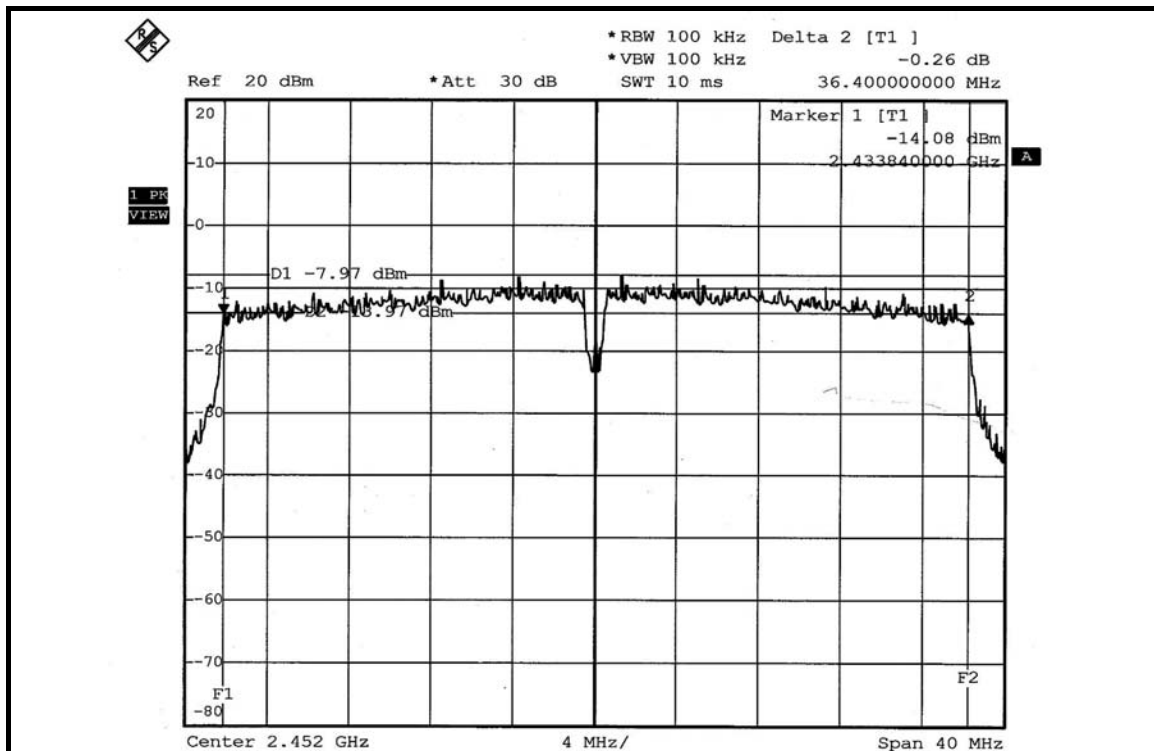
FOR CHAIN 0: CH 1



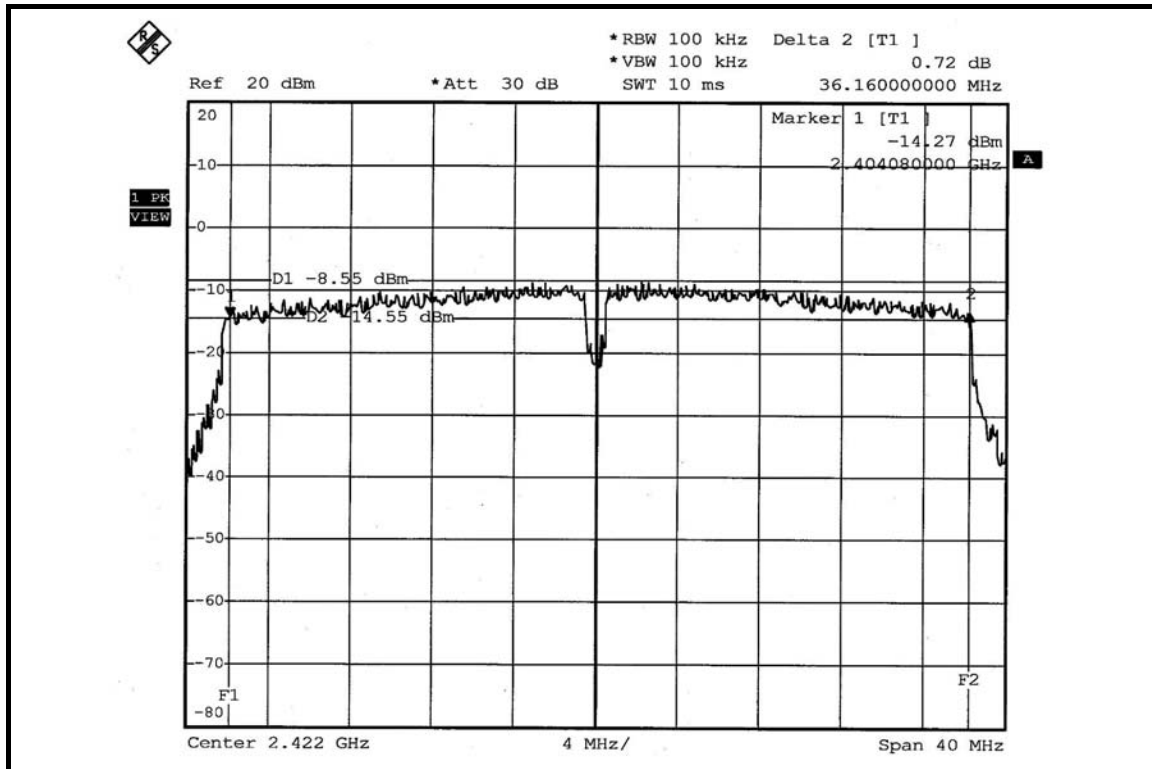
CH 4



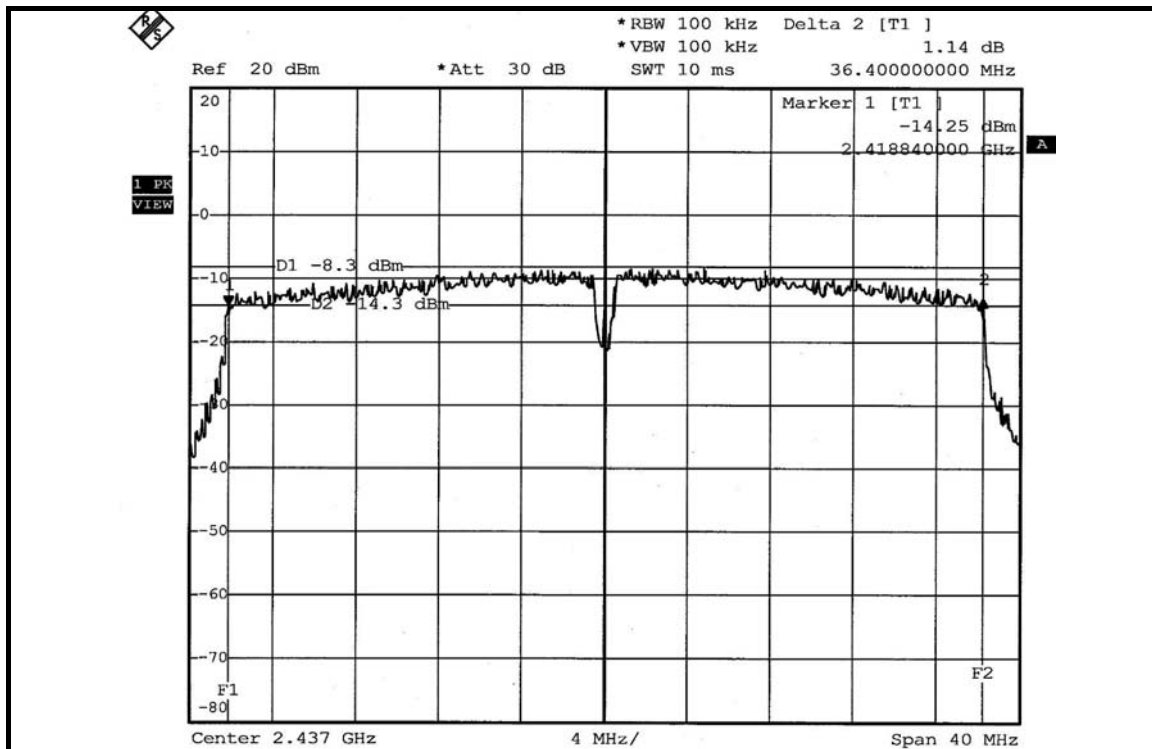
CH 7



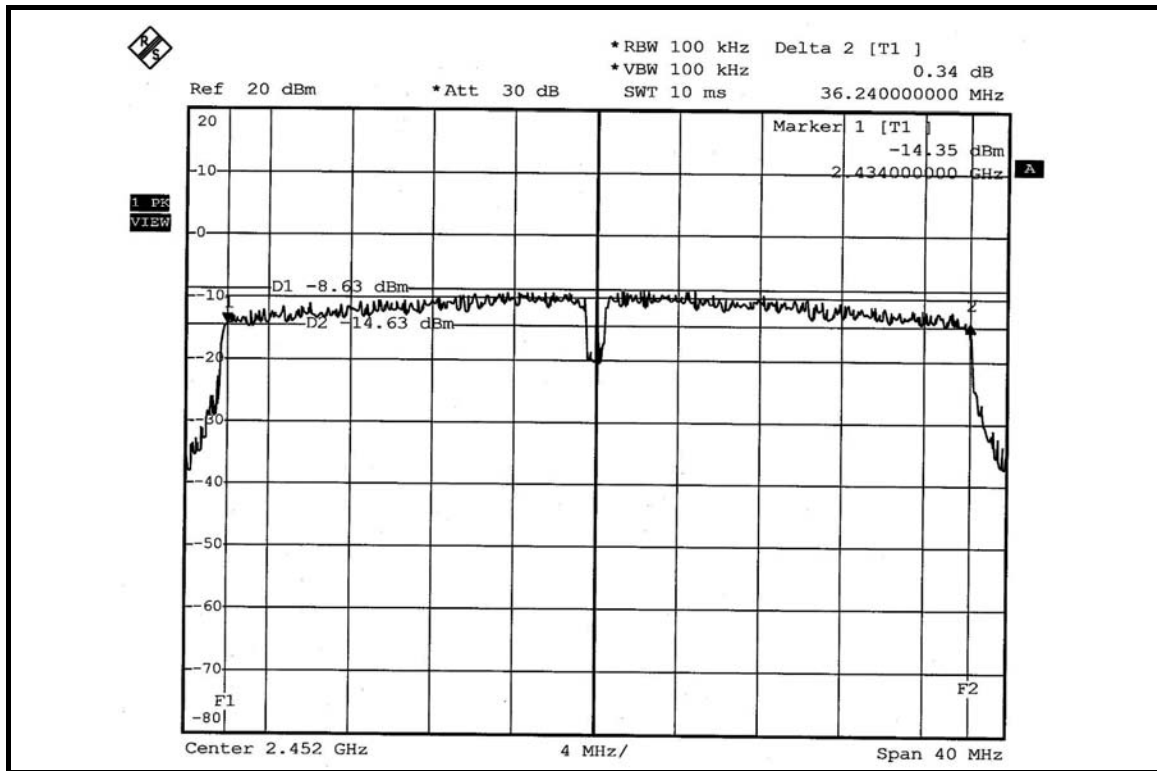
FOR CHAIN 1: CH 1



CH 4



CH 7





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 14, 2006 |
| AGILENT SIGNAL GENERATOR | E8257C | MY43320668 | Dec. 07, 2006 |
| DIGITAL RT OSCILLOSCOPE | TDS1012 | C037299 | Nov. 28, 2006 |
| NARDA DETECTOR | 4503A | FSCM99899 | NA |

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

4.4.3 TEST PROCEDURES

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

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

802.11b DSSS MODULATION:

| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | DBPSK | TRANSFER RATE | 1Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|------------------------|-------------------------|------------------------|-------------|
| 1 | 2412 | 35.975 | 15.56 | 30 | PASS |
| 6 | 2437 | 36.058 | 15.57 | 30 | PASS |
| 11 | 2462 | 35.563 | 15.51 | 30 | PASS |

802.11g OFDM MODULATION:

| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|------------------------|-------------------------|------------------------|-------------|
| 1 | 2412 | 35.563 | 15.51 | 30 | PASS |
| 6 | 2437 | 36.141 | 15.58 | 30 | PASS |
| 11 | 2462 | 35.481 | 15.50 | 30 | PASS |



DRAFT 802.11n (20MHz) OFDM MODULATION: SINGLE TX:

| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 7.2Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|------------------------|-------------------------|------------------------|-------------|
| 1 | 2412 | 35.892 | 15.55 | 30 | PASS |
| 6 | 2437 | 35.810 | 15.54 | 30 | PASS |
| 11 | 2462 | 35.645 | 15.52 | 30 | PASS |

DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 14.444Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | | PEAK POWER OUTPUT (dBm) | | TOTAL PEAK POWER (mW) | TOTAL PEAK POWER (dBm) | PEAK POWER LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|------------------------|---------|-------------------------|---------|-----------------------|------------------------|------------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 0 | CHAIN 1 | | | | |
| 1 | 2412 | 17.783 | 17.865 | 12.50 | 12.52 | 35.648 | 15.52 | 30 | PASS |
| 6 | 2437 | 17.824 | 18.113 | 12.51 | 12.58 | 35.937 | 15.56 | 30 | PASS |
| 11 | 2462 | 17.989 | 17.865 | 12.55 | 12.52 | 35.854 | 15.55 | 30 | PASS |



DRAFT 802.11n (40MHz) OFDM MODULATION: SINGLE TX:

| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 15Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|------------------------|-------------------------|------------------------|-------------|
| 1 | 2422 | 31.696 | 15.01 | 30 | PASS |
| 4 | 2437 | 36.058 | 15.57 | 30 | PASS |
| 7 | 2452 | 32.063 | 15.06 | 30 | PASS |

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 30Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (mW) | | PEAK POWER OUTPUT (dBm) | | TOTAL PEAK POWER (mW) | TOTAL PEAK POWER (dBm) | PEAK POWER LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|------------------------|---------|-------------------------|---------|-----------------------|------------------------|------------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | CHAIN 0 | CHAIN 1 | | | | |
| 1 | 2422 | 17.906 | 18.072 | 12.53 | 12.57 | 35.978 | 15.56 | 30 | PASS |
| 4 | 2437 | 18.030 | 17.947 | 12.56 | 12.54 | 35.978 | 15.56 | 30 | PASS |
| 7 | 2452 | 17.989 | 17.865 | 12.55 | 12.52 | 35.854 | 15.55 | 30 | PASS |



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|----------------------------|-----------|------------|------------------|
| R&S SPECTRUM ANALYZER | FSEK30 | 100049 | Aug. 14, 2006 |

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

4.5.3 TEST PROCEDURE

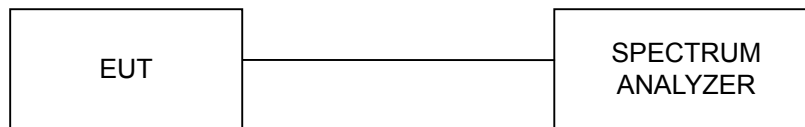
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

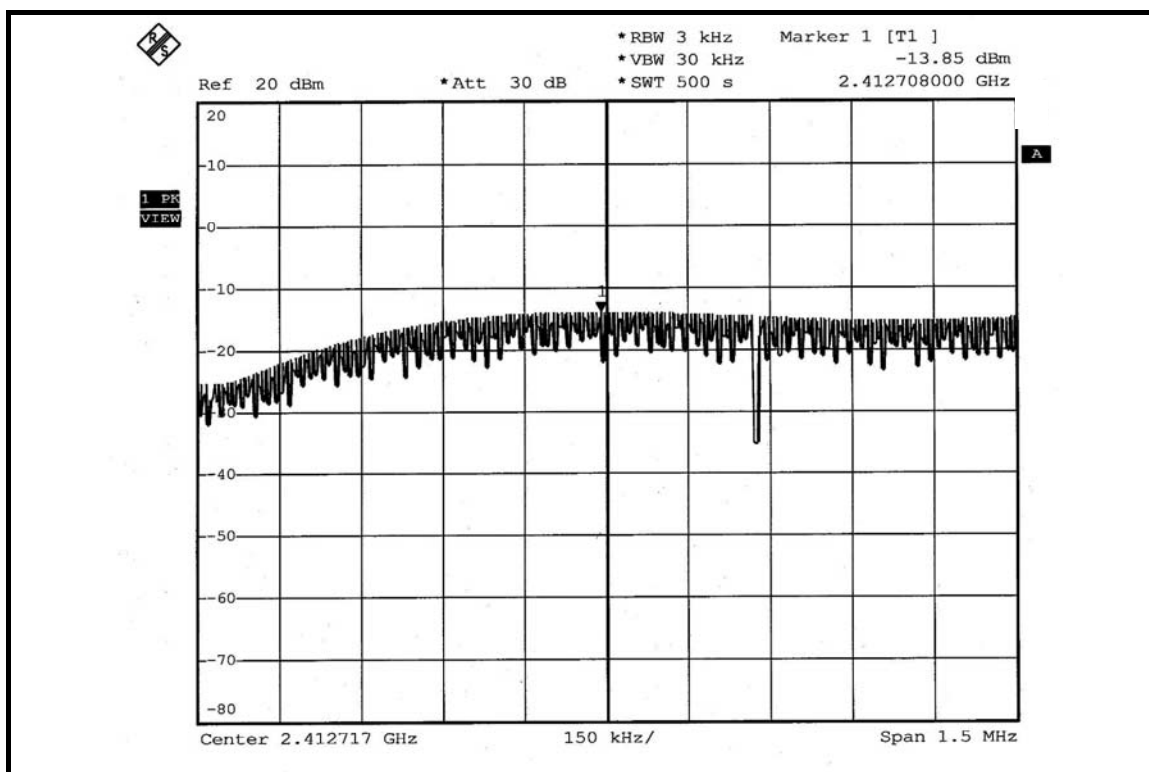
4.5.7 TEST RESULTS

802.11b DSSS MODULATION:

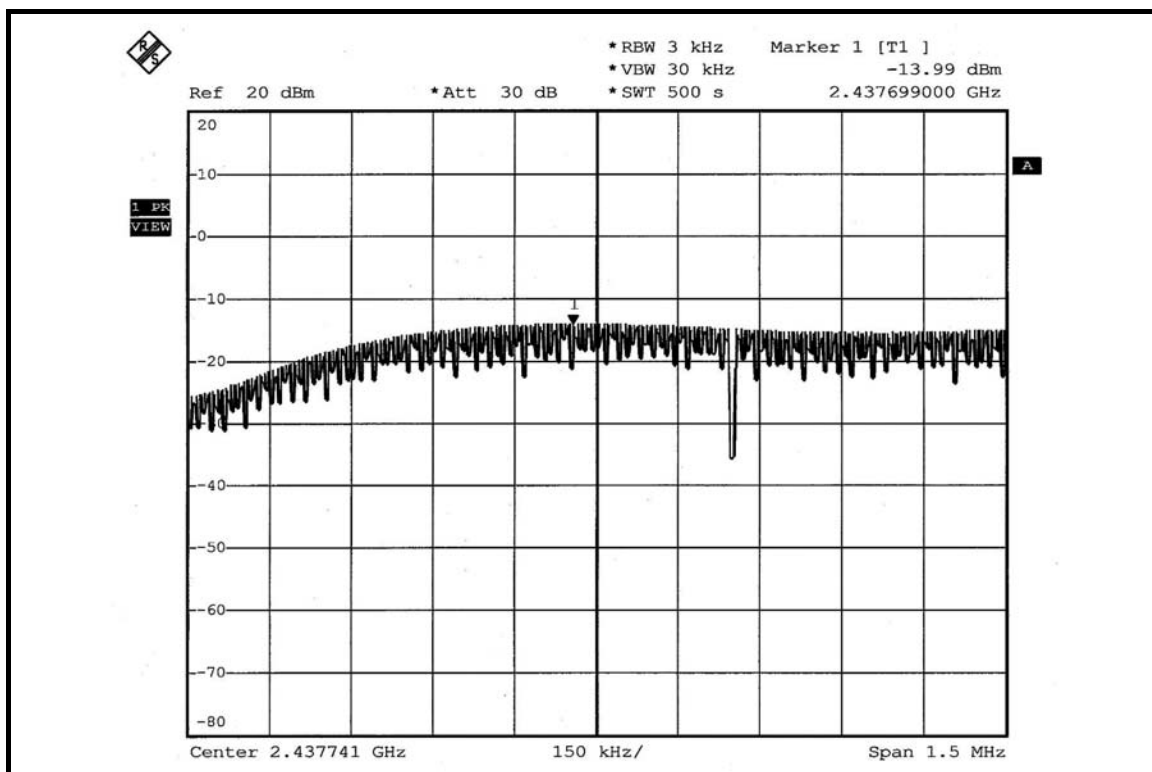
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | DBPSK | TRANSFER RATE | 1Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS / FAIL |
|---------|--------------------------|---------------------------------|---------------------|-------------|
| 1 | 2412 | -13.85 | 8 | PASS |
| 6 | 2437 | -13.99 | 8 | PASS |
| 11 | 2462 | -13.71 | 8 | PASS |

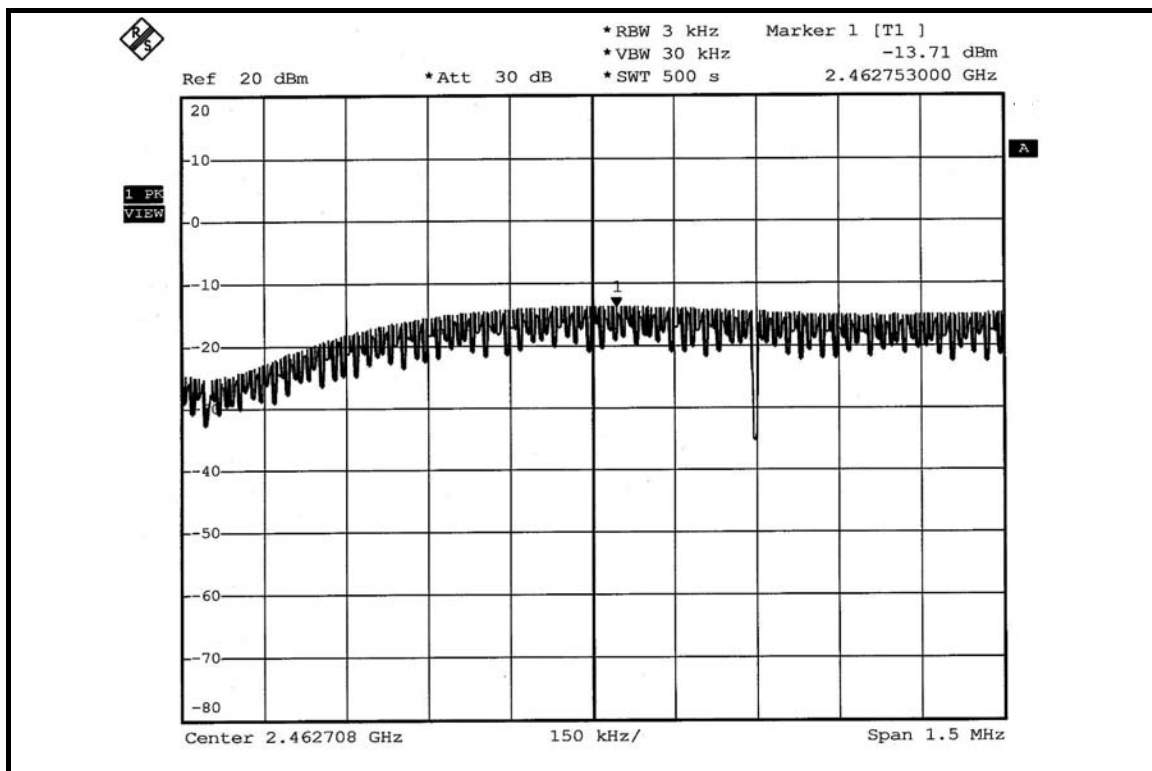
CH 1



CH 6



CH 11

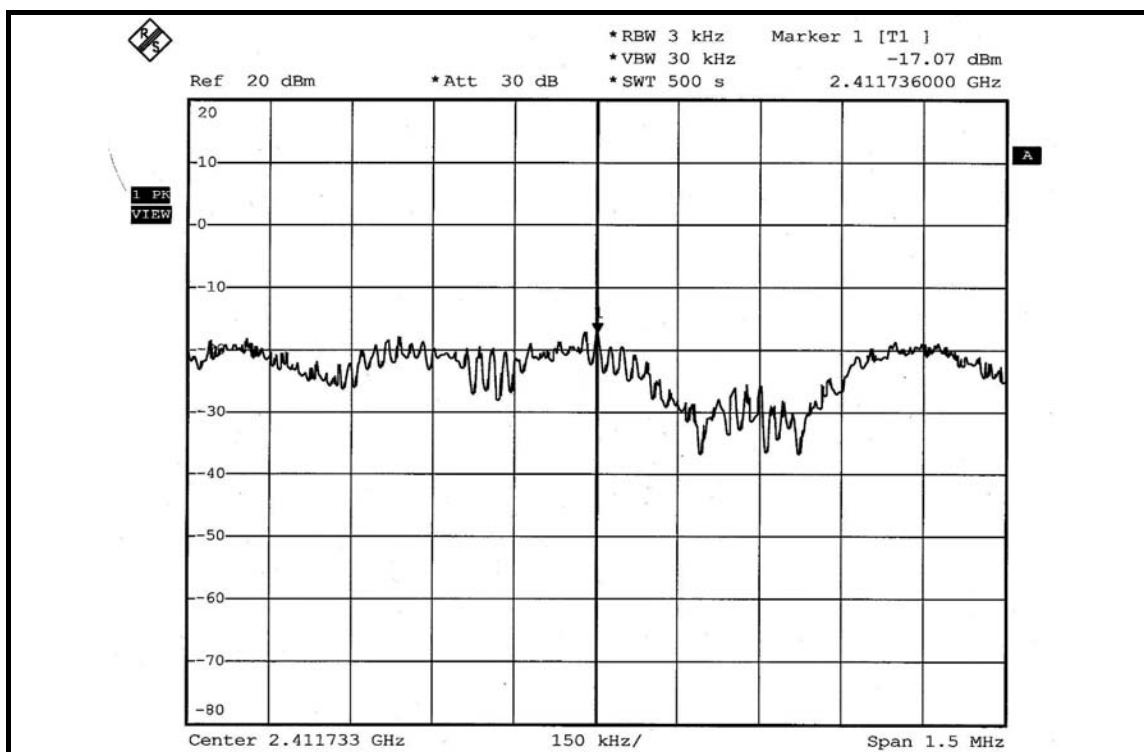


802.11g OFDM MODULATION:

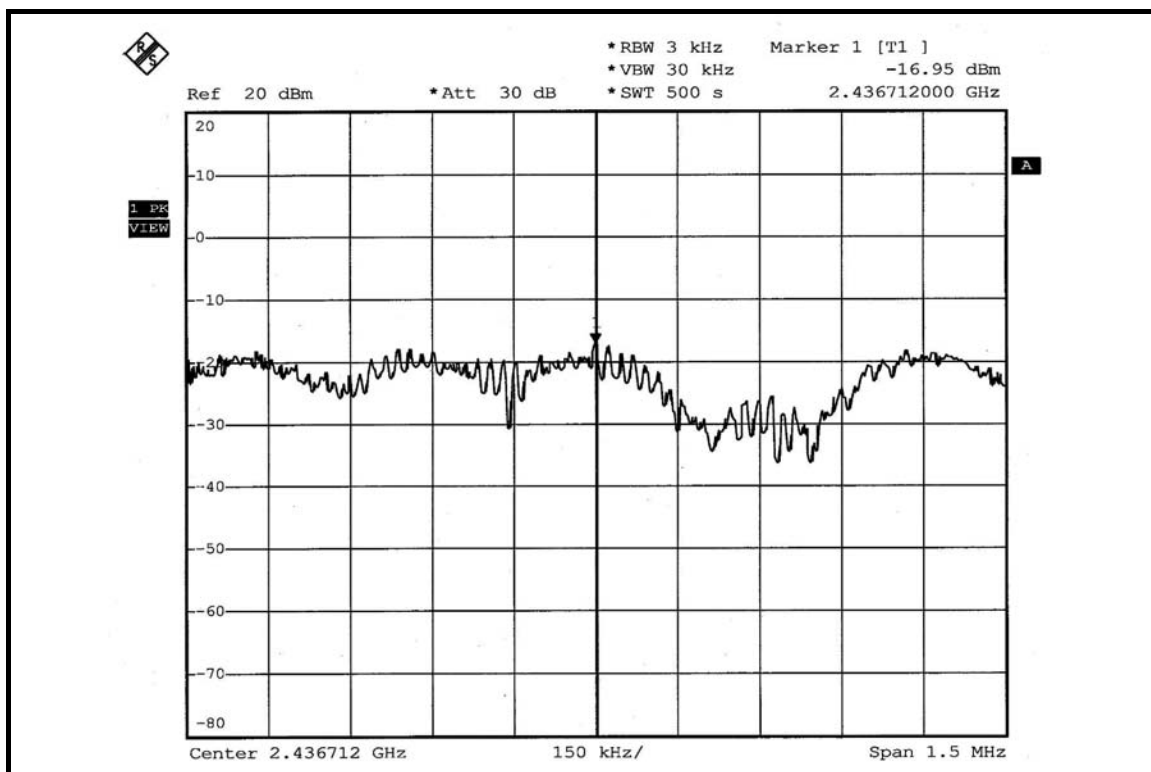
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 6Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|---------------------------------|---------------------|-------------|
| 1 | 2412 | -17.07 | 8 | PASS |
| 6 | 2437 | -16.95 | 8 | PASS |
| 11 | 2462 | -17.26 | 8 | PASS |

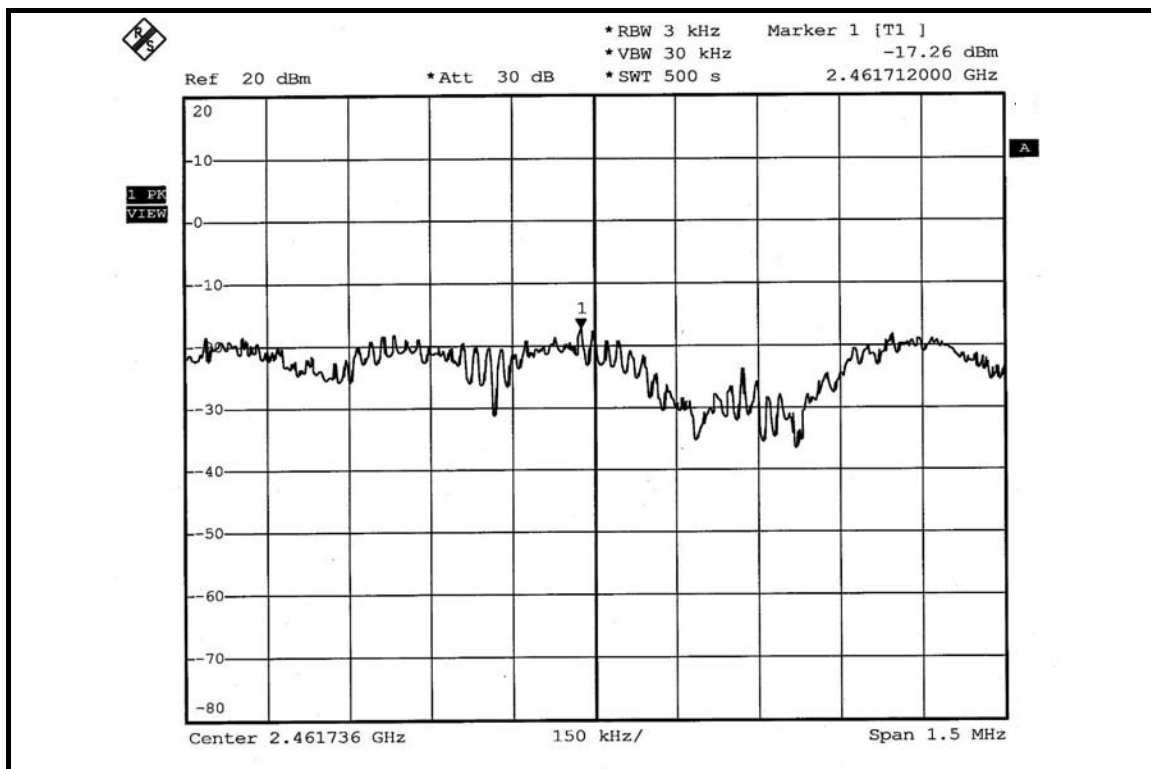
CH 1



CH 6



CH 11

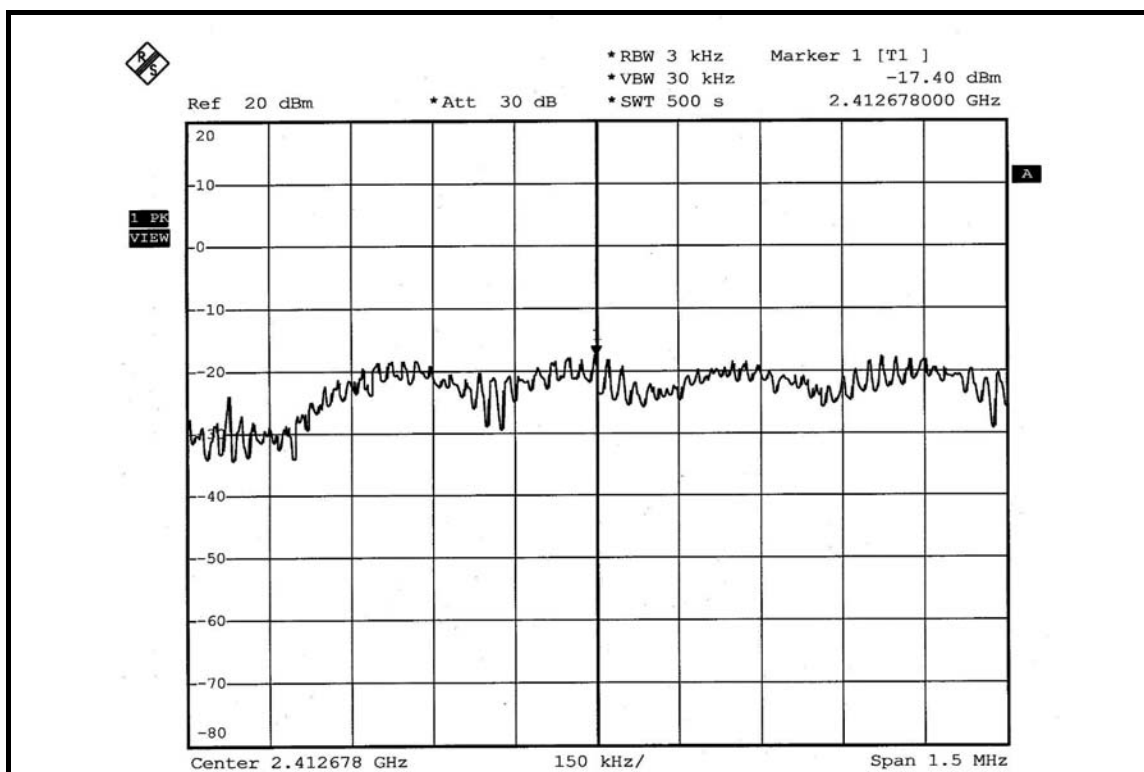


DRAFT 802.11n (20MHz) OFDM MODULATION: SINGLE TX:

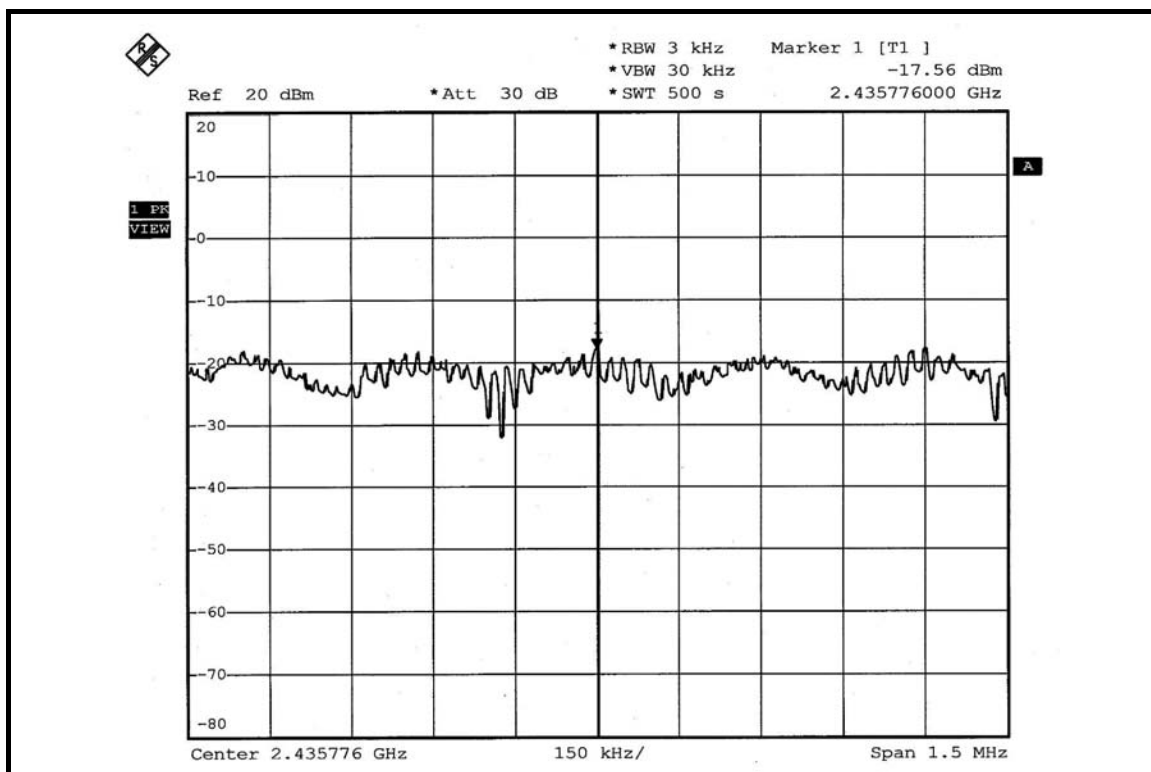
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 7.2Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|---------------------------------|---------------------|-------------|
| 1 | 2412 | -17.40 | 8 | PASS |
| 6 | 2437 | -17.56 | 8 | PASS |
| 11 | 2462 | -17.33 | 8 | PASS |

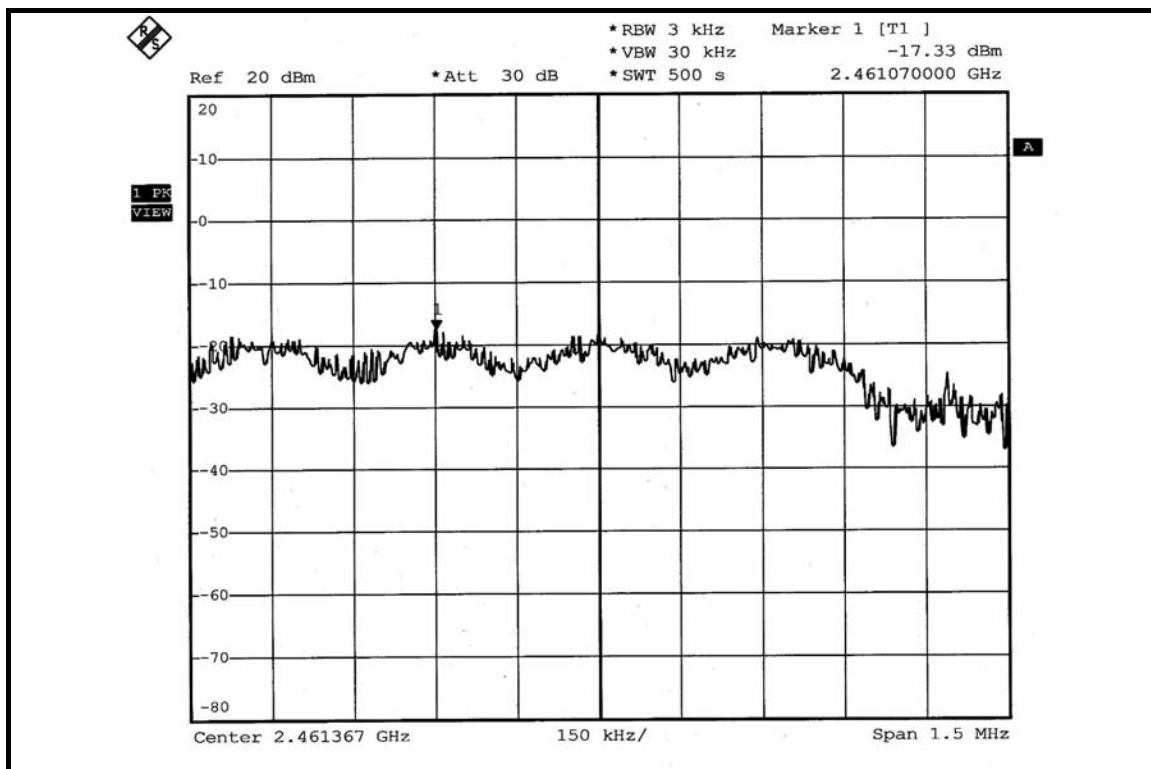
CH 1



CH 6



CH 11

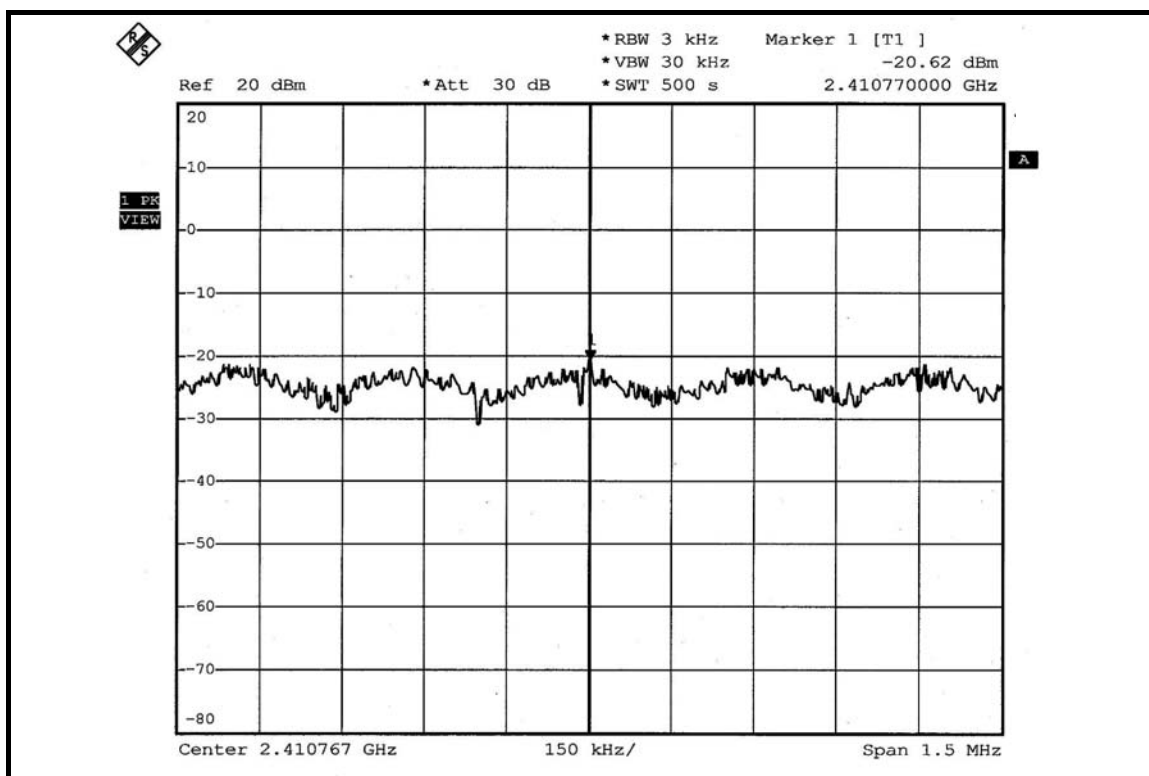


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

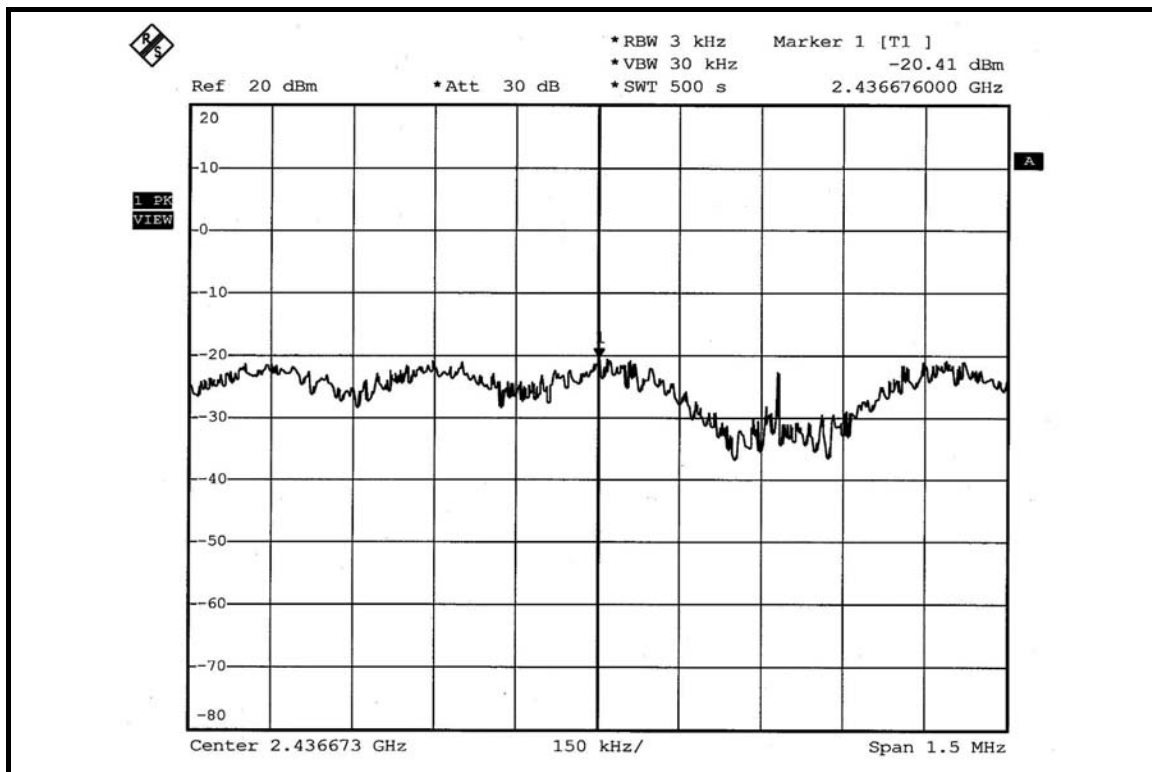
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 14.444Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | | MAXIMUM LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|---------------------------------|---------|---------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | | |
| 1 | 2412 | -20.62 | -20.66 | 8 | PASS |
| 6 | 2437 | -20.41 | -20.41 | 8 | PASS |
| 11 | 2462 | -20.86 | -20.71 | 8 | PASS |

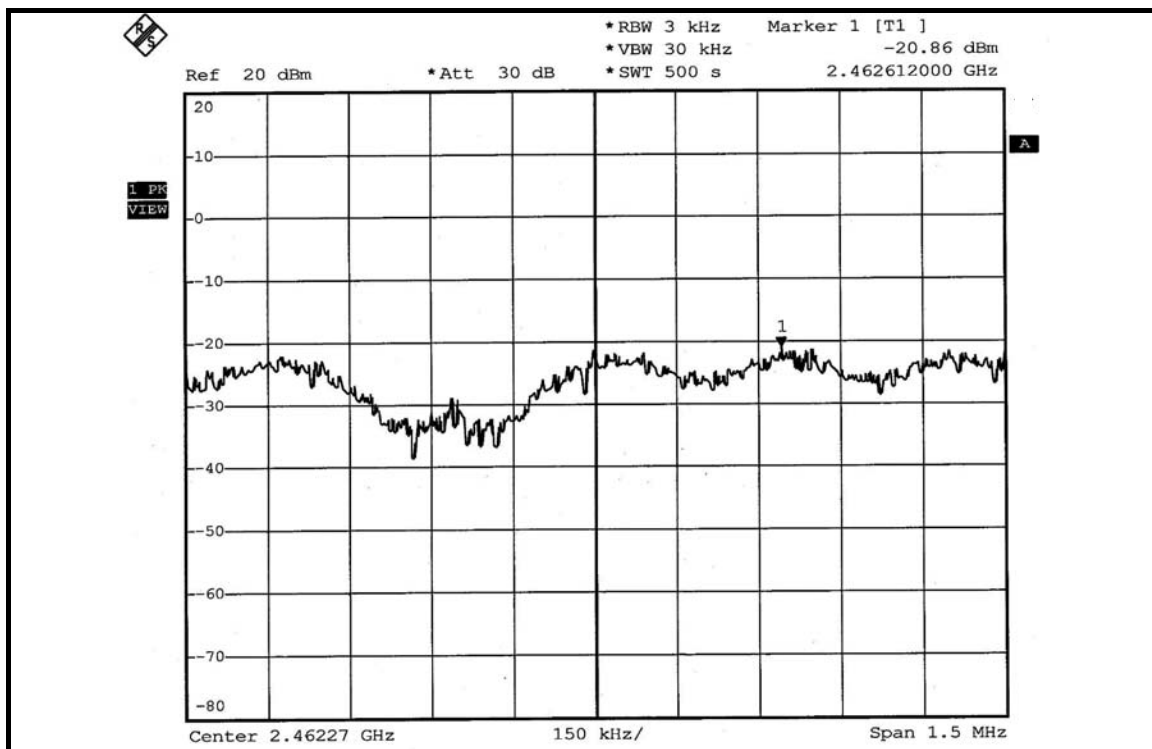
FOR CHAIN 0: CH 1



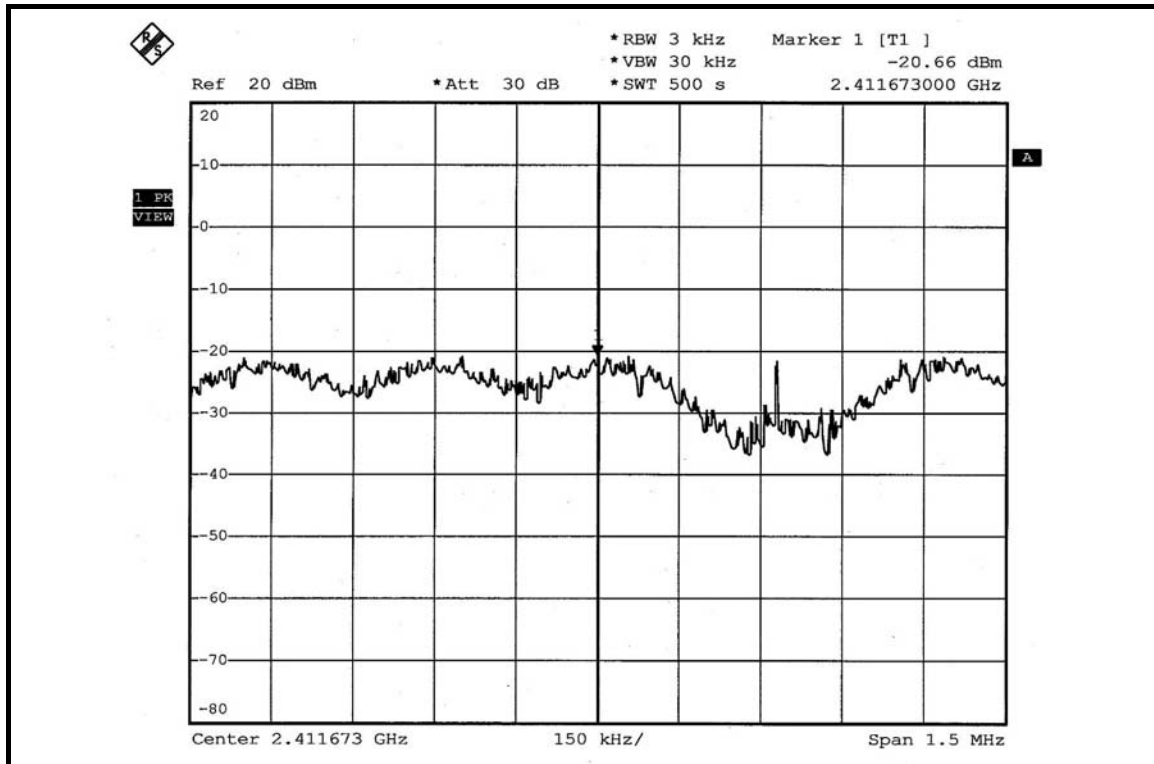
CH 6



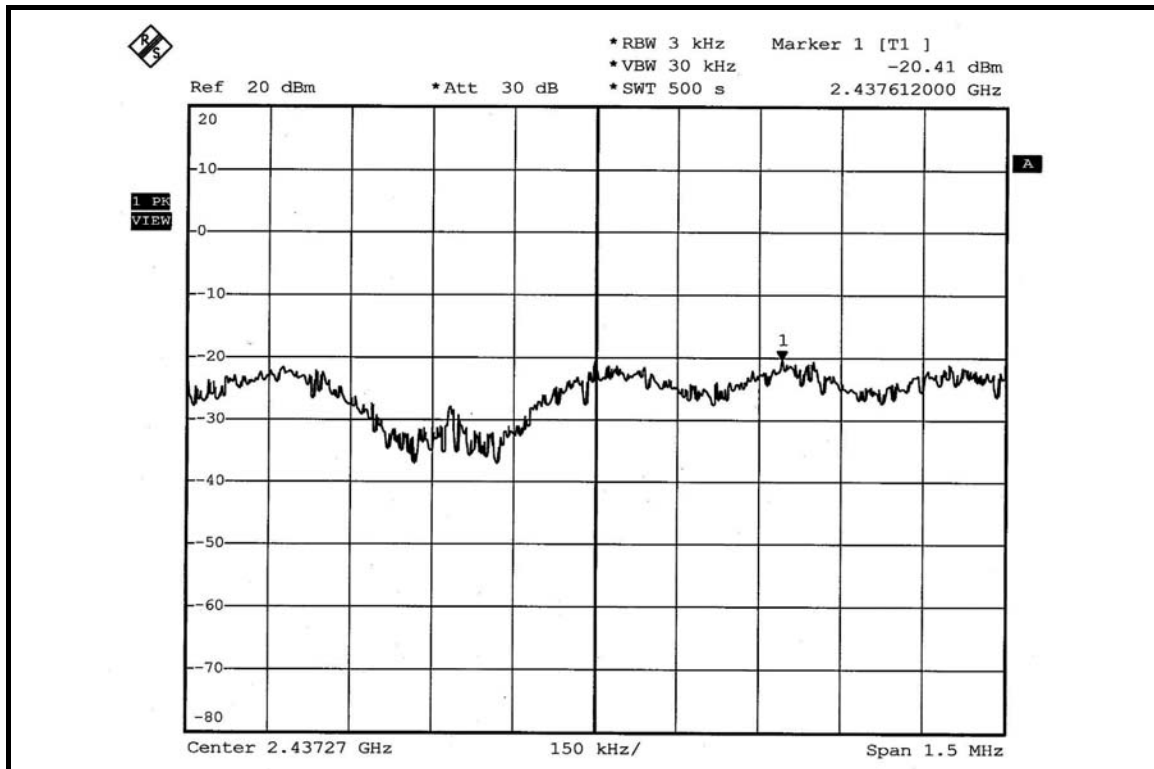
CH 11



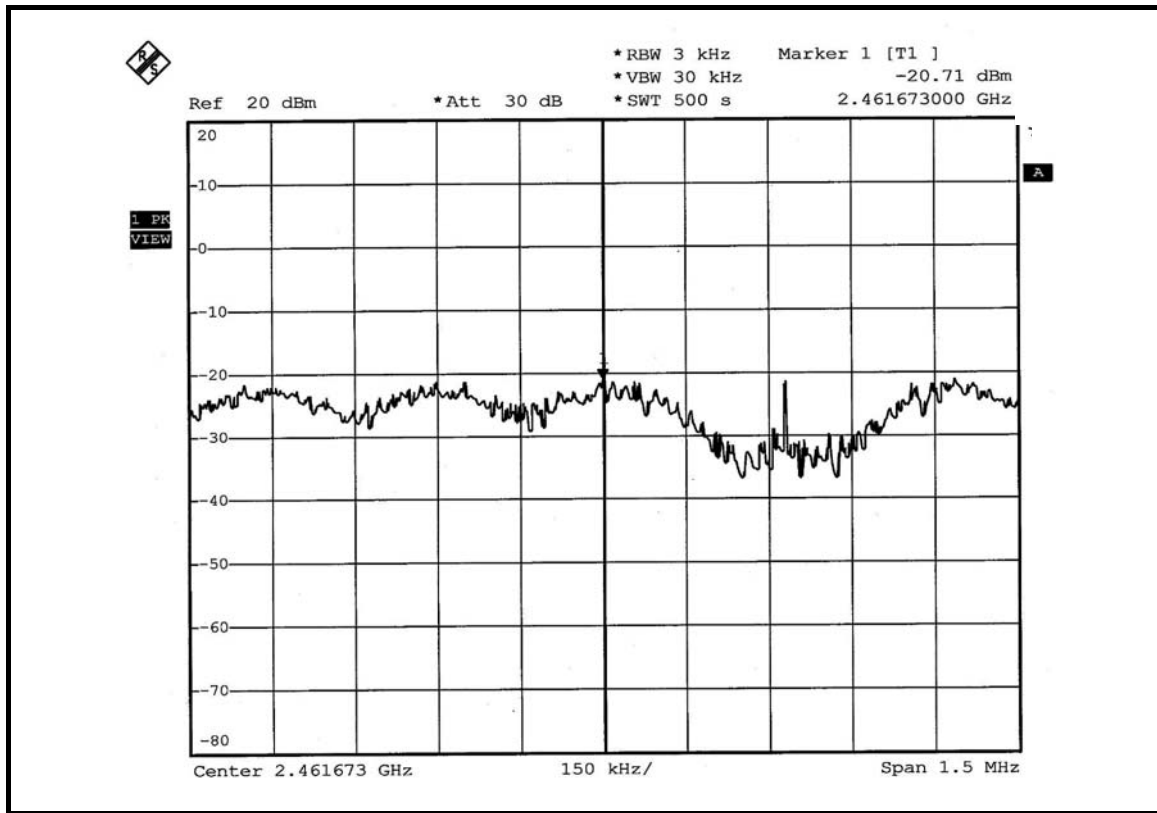
FOR CHAIN 1: CH 1



CH 6



CH 11

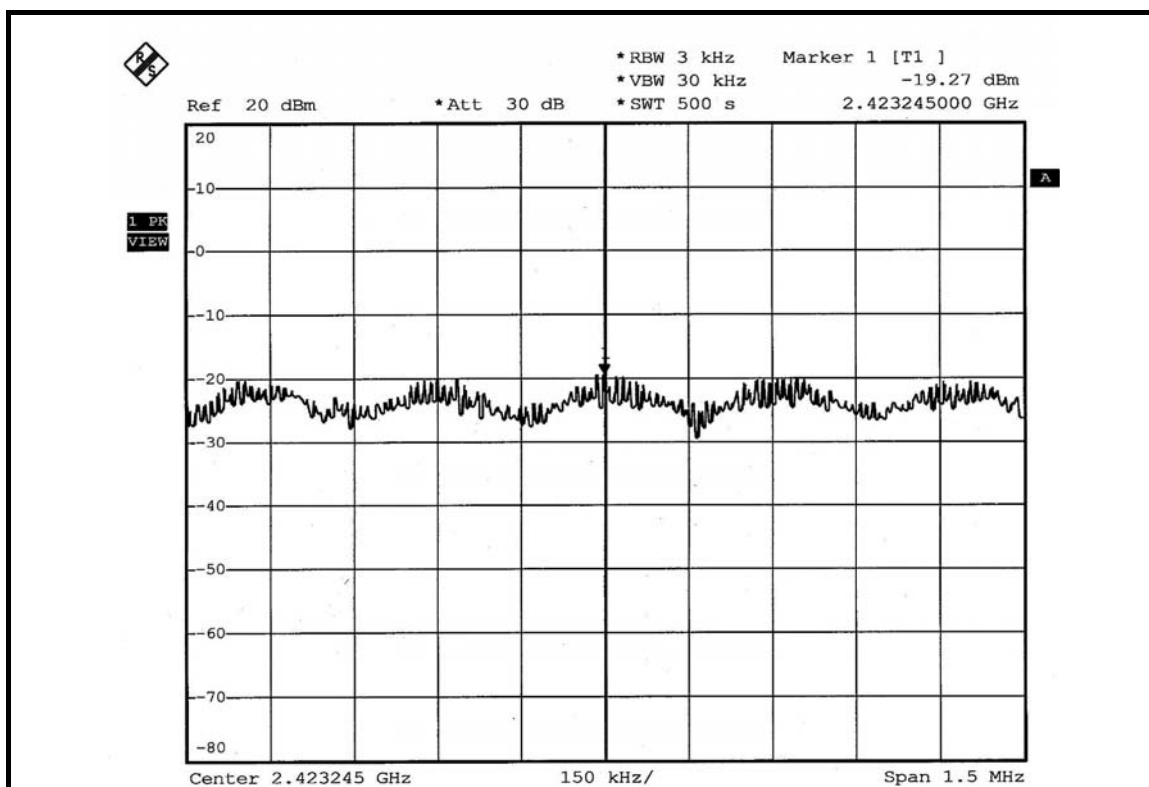


DRAFT 802.11n (40MHz) OFDM MODULATION: SINGLE TX:

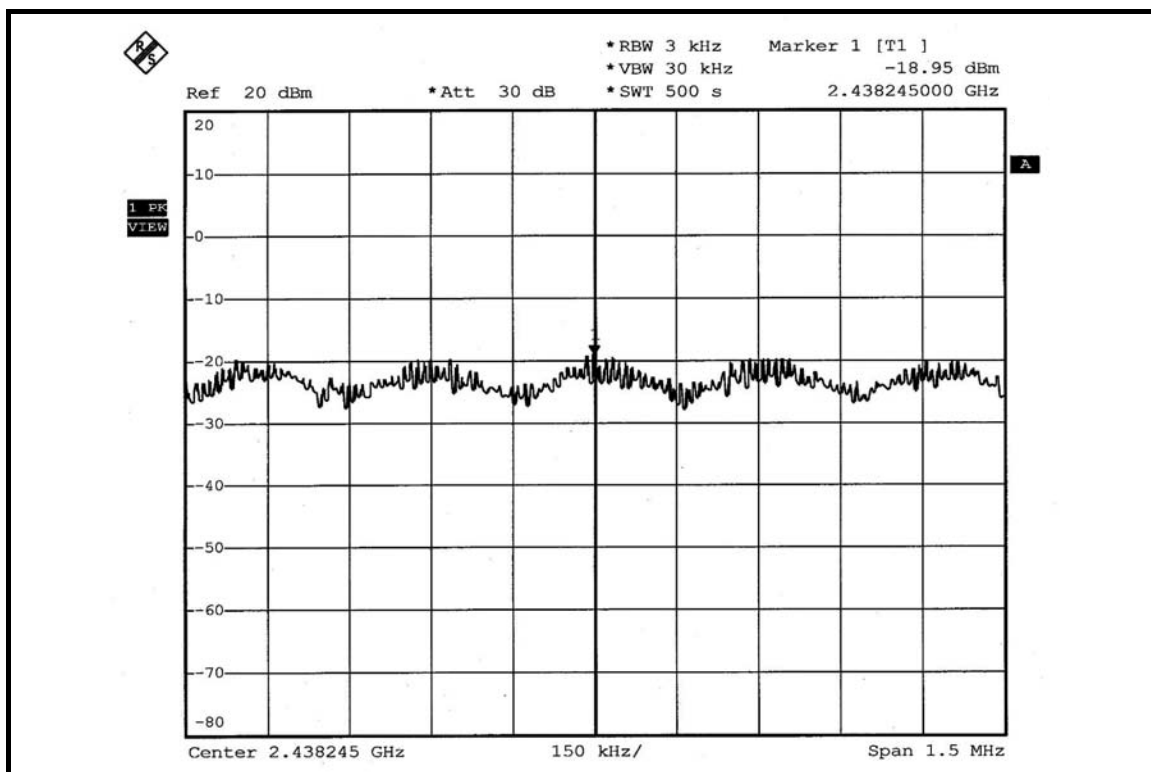
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 15Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | MAXIMUM LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|---------------------------------|---------------------|-------------|
| 1 | 2422 | -19.27 | 8 | PASS |
| 4 | 2437 | -18.95 | 8 | PASS |
| 7 | 2452 | -19.50 | 8 | PASS |

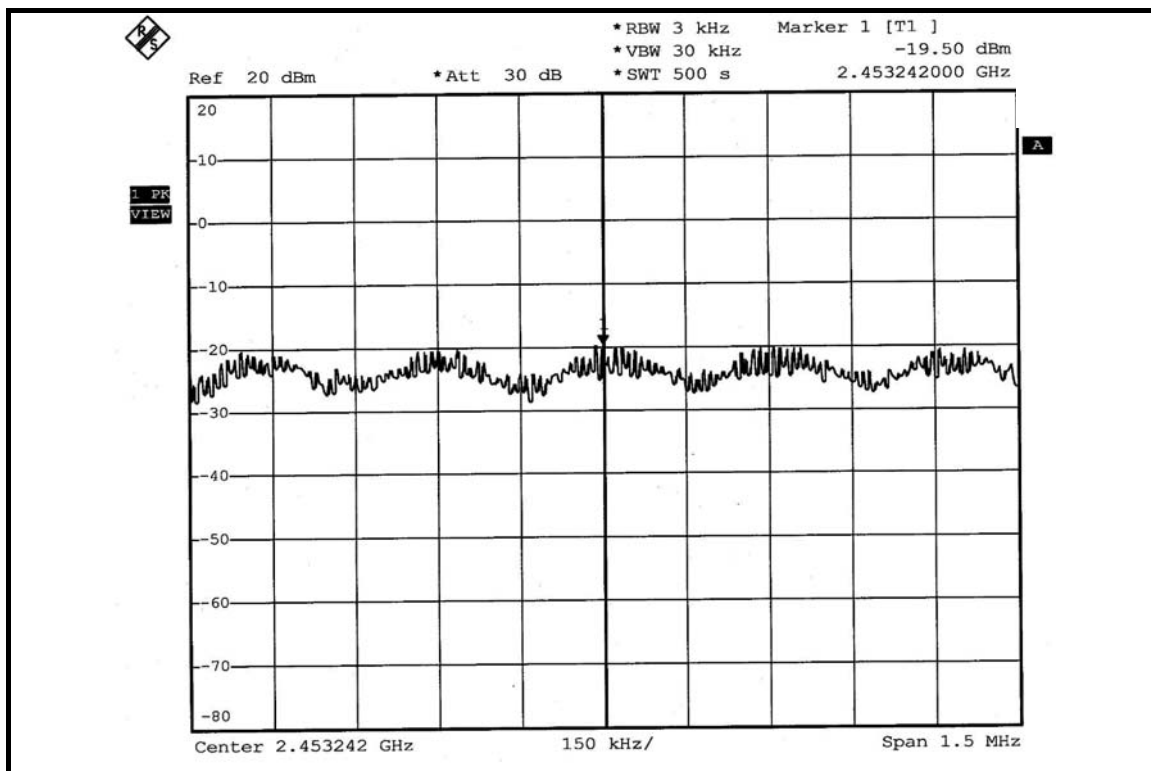
CH 1



CH 4



CH 7

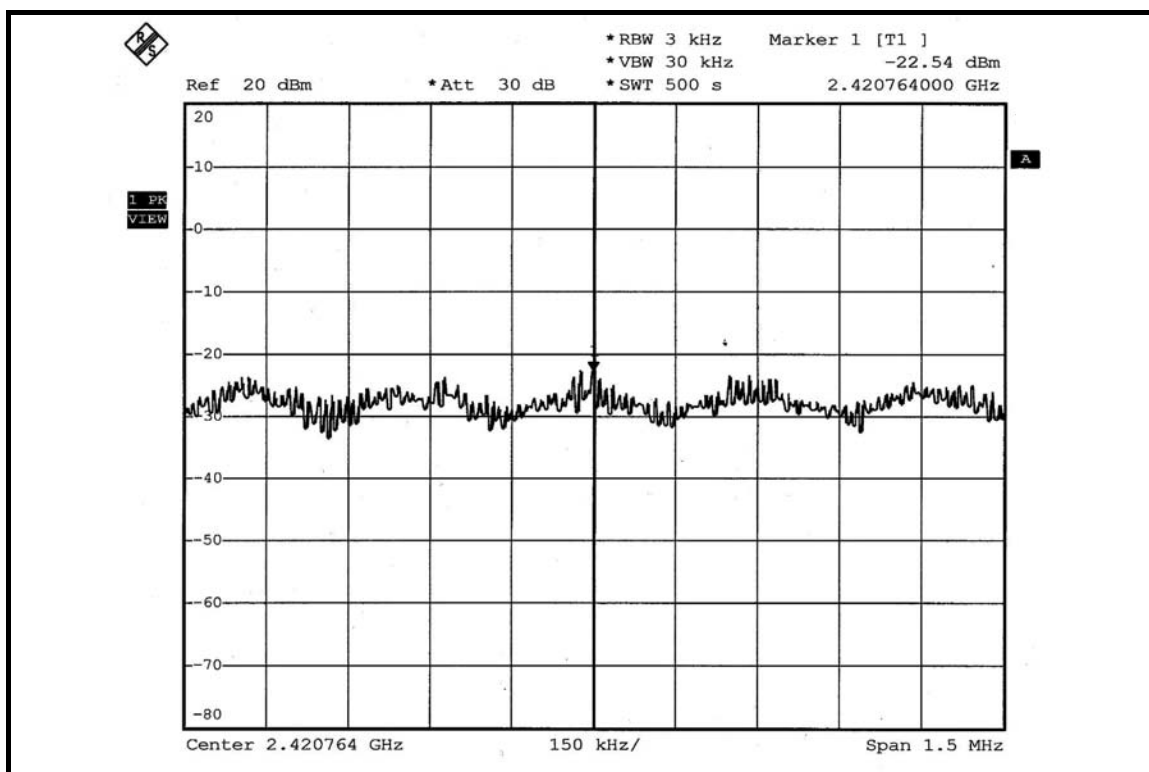


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

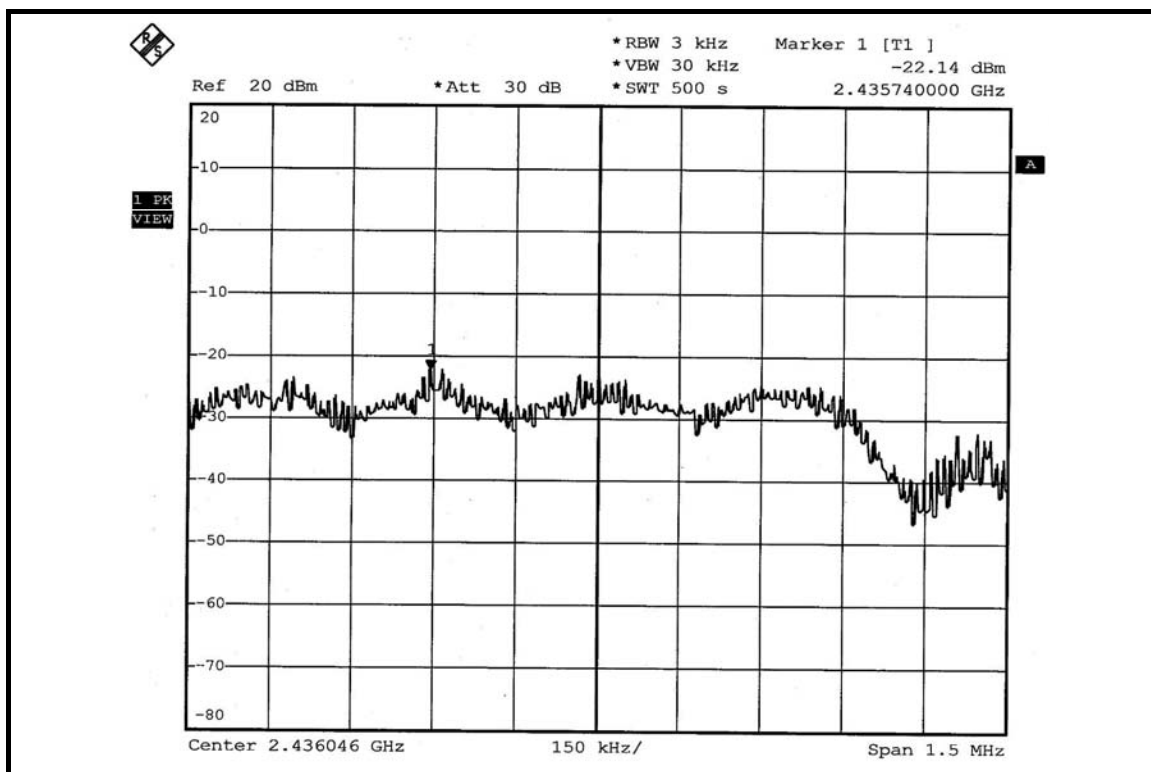
| | | | |
|-----------------------------|---------------|---------------------------------|------------------------|
| MODULATION TYPE | BPSK | TRANSFER RATE | 30Mbps |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | ENVIRONMENTAL CONDITIONS | 25deg.C, 63%RH, 991hPa |
| TESTED BY | Long Chen | | |

| CHANNEL | CHANNEL FREQUENCY (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | | MAXIMUM LIMIT (dBm) | PASS / FAIL |
|---------|-------------------------|---------------------------------|---------|---------------------|-------------|
| | | CHAIN 0 | CHAIN 1 | | |
| 1 | 2422 | -22.54 | -22.20 | 8 | PASS |
| 4 | 2437 | -22.14 | -22.13 | 8 | PASS |
| 7 | 2452 | -22.17 | -22.42 | 8 | PASS |

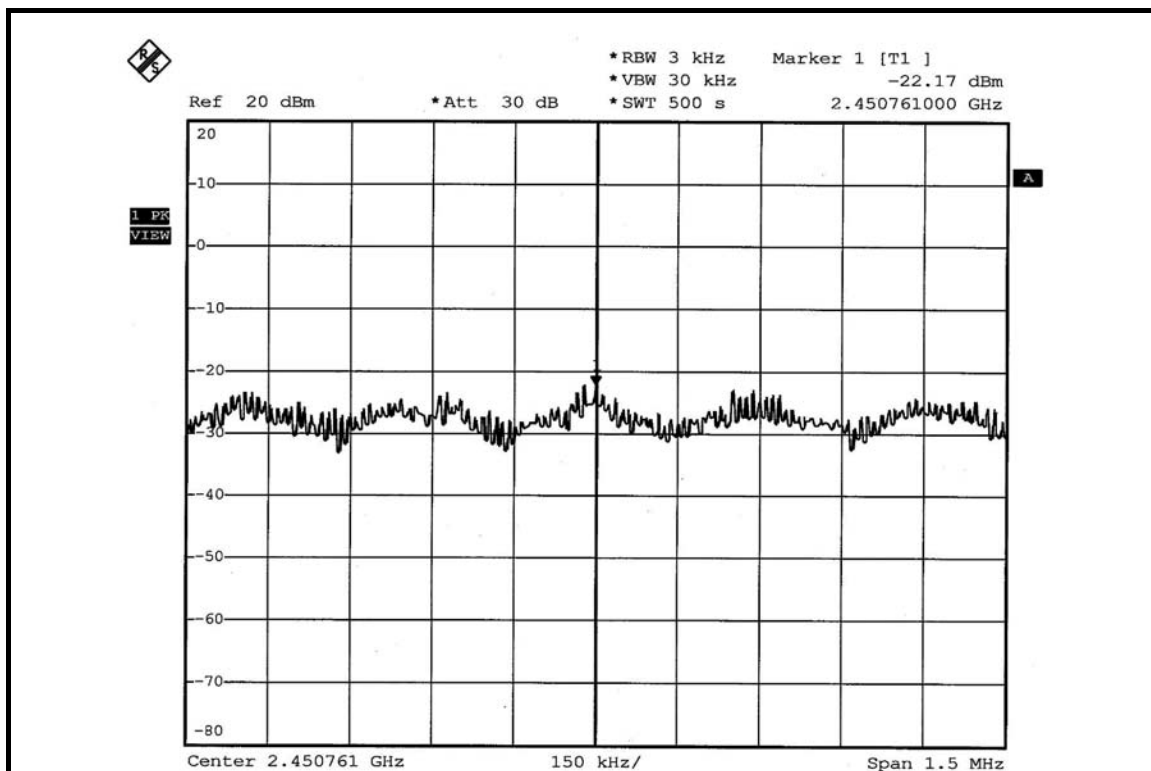
FOR CHAIN 0: CH 1



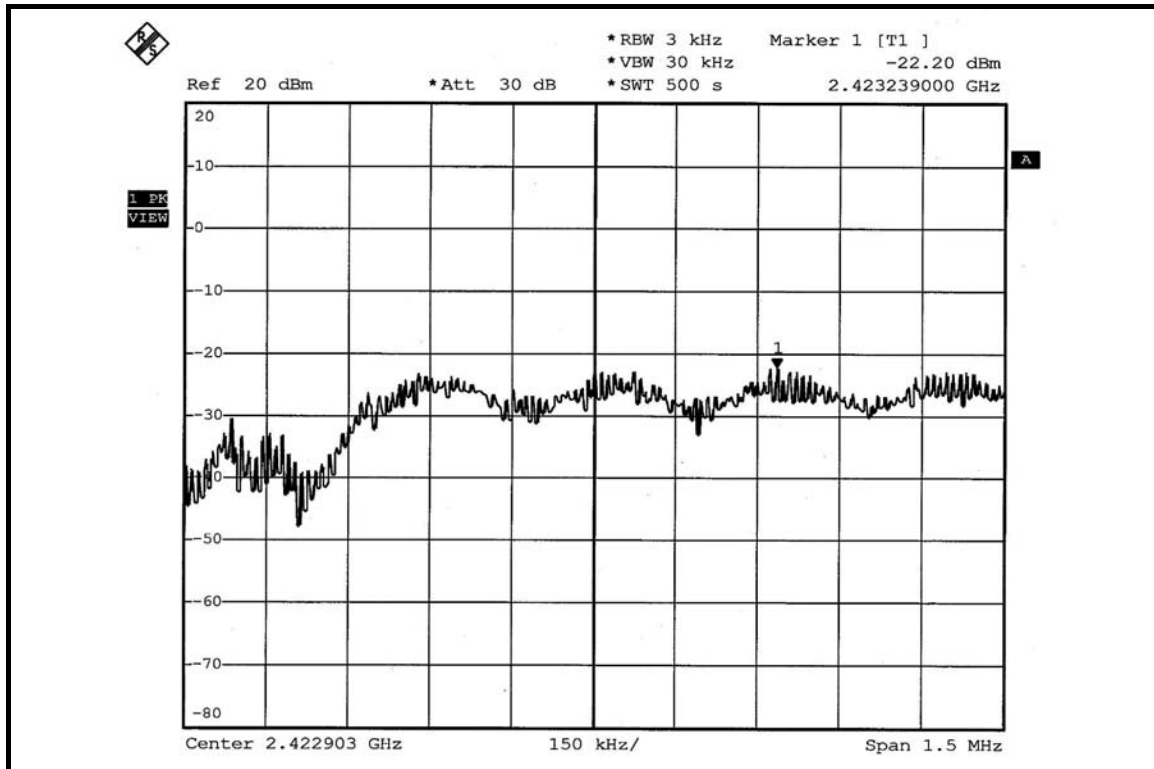
CH 4



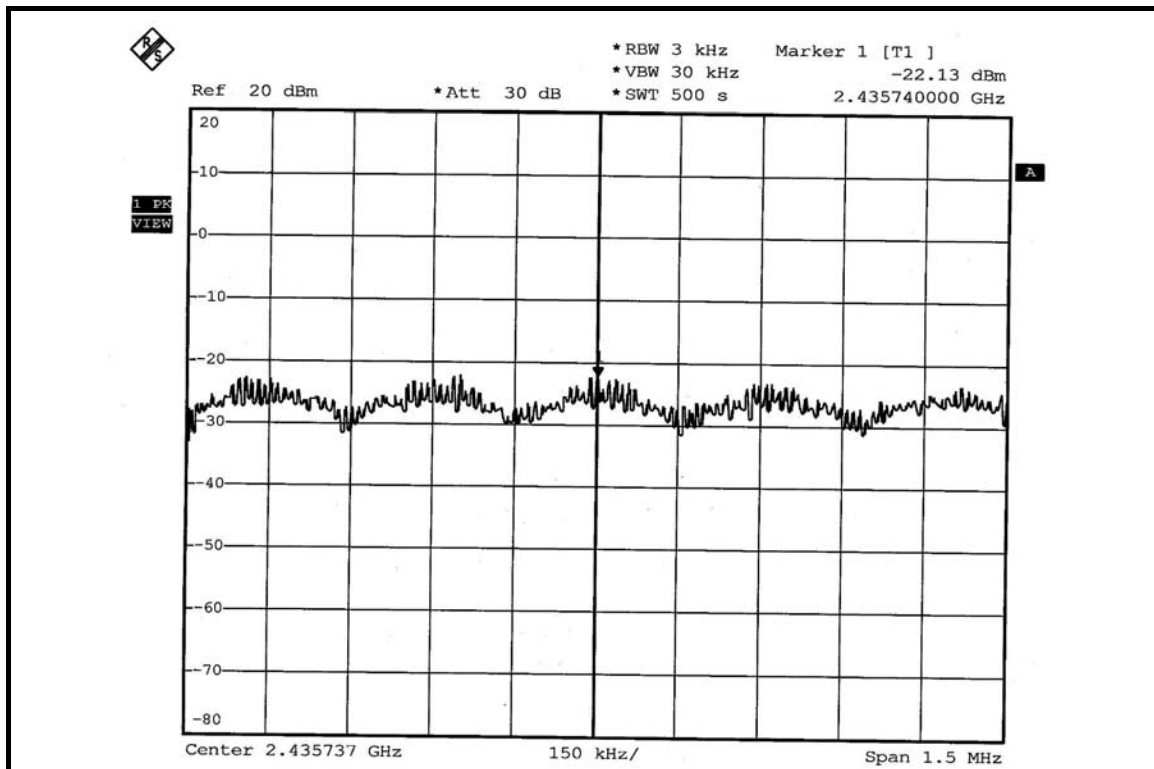
CH 7



FOR CHAIN 1: CH 1



CH 4



CH 7

