

# TEST REPORT

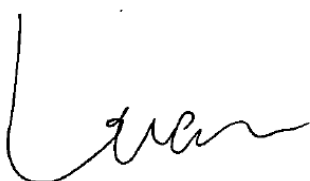
|           |                                                            |
|-----------|------------------------------------------------------------|
| Applicant | Savant Technologies LLC, dba GE Lighting, a Savant Company |
| Address   | 1975 Noble Road, Cleveland, Ohio 44112, United States      |

|                                     |                                                            |
|-------------------------------------|------------------------------------------------------------|
| Manufacturer or Supplier            | Savant Technologies LLC, dba GE Lighting, a Savant Company |
| Address                             | 1975 Noble Road, Cleveland, Ohio 44112, United States      |
| Product                             | Indoor Smart Camera                                        |
| Brand Name                          | GE                                                         |
| Model                               | CAMIDWDPHDW1                                               |
| Additional Model & Model Difference | N/A                                                        |
| Date of tests                       | Aug. 31, 2020 ~ Oct. 20, 2020                              |

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart C, Section 15.247**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

|                                                                                     |                                                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Tested by Lucas Chen<br>Project Engineer / EMC Department                           | Approved by Glyn He<br>Assistant Manager / EMC Department                                                   |
|  | <br>Date: Nov. 03, 2020 |

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## RELEASE CONTROL RECORD

| ISSUE NO.     | REASON FOR CHANGE | DATE ISSUED   |
|---------------|-------------------|---------------|
| RF2008WDG0364 | Original release  | Nov. 03, 2020 |

## 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247) |                             |        |                                                           |
|-----------------------------------------------------------|-----------------------------|--------|-----------------------------------------------------------|
| STANDARD SECTION                                          | TEST TYPE AND LIMIT         | RESULT | REMARK                                                    |
| 15.207                                                    | AC Power Conducted Emission | PASS   | Meet the requirement of limit.                            |
| 15.247(d)<br>15.209                                       | Radiated Emissions          | PASS   | Meet the requirement of limit.                            |
| 15.247(d)                                                 | Band Edge Measurement       | PASS   | Meet the requirement of limit.                            |
| 15.247(a)(2)                                              | 6dB bandwidth               | PASS   | Meet the requirement of limit.                            |
| 15.247(b)                                                 | Conducted Output power      | PASS   | Meet the requirement of limit.                            |
| 15.247(e)                                                 | Power Spectral Density      | PASS   | Meet the requirement of limit.                            |
| 15.203                                                    | Antenna Requirement         | PASS   | Antenna connector is i-pex, and it's an internal antenna. |

## 2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| MEASUREMENT         | FREQUENCY     | UNCERTAINTY |
|---------------------|---------------|-------------|
| Conducted emissions | 9kHz~30MHz    | 2.70dB      |
| Radiated emissions  | 9KHz ~ 30MHz  | 2.16dB      |
|                     | 30MHz ~ 1GMHz | 3.60dB      |
|                     | 1GHz ~ 18GHz  | 4.82dB      |
|                     | 18GHz ~ 40GHz | 5.00dB      |

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

|                              |                                                                 |
|------------------------------|-----------------------------------------------------------------|
| <b>PRODUCT</b>               | Indoor Smart Camera                                             |
| <b>BRAND</b>                 | GE                                                              |
| <b>MODEL NO.</b>             | CAMIDWDPHDW1                                                    |
| <b>ADDITIONAL NO.</b>        | N/A                                                             |
| <b>FCC ID</b>                | PUU-CAMIDWDPHD1                                                 |
| <b>NOMINAL VOLTAGE</b>       | DC 5V from Adapter                                              |
| <b>MODULATION TECHNOLOGY</b> | DSSS, OFDM                                                      |
| <b>MODULATION TYPE</b>       | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM |
| <b>OPERATING FREQUENCY</b>   | 2412-2462MHz for 11b/g/n(HT20)<br>2422-2452MHz for 11n(HT40)    |
| <b>PEAK OUTPUT POWER</b>     | 325.087mW(Maximum)                                              |
| <b>ANTENNA TYPE</b>          | FPCB Antenna, with 3dBi gain                                    |
| <b>I/O PORTS</b>             | Refer to user's manual                                          |
| <b>CABLE SUPPLIED</b>        | N/A                                                             |

#### NOTES:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
2. Please refer to the EUT photo document (Reference No.: 2008WDG0364) for detailed product photo.
3. The EUT provides completed transmitters and receivers:

| MODULATION MODE | FUNCTION |
|-----------------|----------|
| 802.11b         | 1TX/1RX  |
| 802.11g         | 1TX/1RX  |
| 802.11n (HT20)  | 1TX/1RX  |
| 802.11n (HT40)  | 1TX/1RX  |

4. The EUT were powered by the following Adapter:

| ADAPTER   |                                                                                     |
|-----------|-------------------------------------------------------------------------------------|
| BRAND:    |  |
| MODEL:    | HNBL050100UU                                                                        |
| INPUT:    | AC 100-240V, 50/60Hz 0.2A MAX                                                       |
| OUTPUT:   | DC 5V, 0.651A                                                                       |
| USB LINE: | Unshielded, Detachable, 295cm.                                                      |

### 3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

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

7 channels are provided for 802.11n (HT40):

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 3       | 2422MHz   | 7       | 2442MHz   |
| 4       | 2427MHz   | 8       | 2447MHz   |
| 5       | 2432MHz   | 9       | 2452MHz   |
| 6       | 2437MHz   |         |           |

### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

| EUT<br>CONFIGURE<br>MODE | APPLICABLE TO |       |     |      | MODE                                         |
|--------------------------|---------------|-------|-----|------|----------------------------------------------|
|                          | RE<1G         | RE≥1G | PLC | APCM |                                              |
| <b>A</b>                 | √             | √     | √   | √    | <b>Powered by Adapter with WIFI function</b> |

Where **RE<1G**: Radiated Emission below 1GHz

**RE≥1G**: Radiated Emission above 1GHz

**PLC**: Power Line Conducted Emission

**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.

| EUT CONFIGURE MODE | TESTED CONDITION |
|--------------------|------------------|
| A                  | WIFI (2.4G) Link |

#### **RADIATED EMISSION TEST (BELOW 1GHz):**

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

| EUT<br>CONFIGURE<br>MODE | MODE    | AVAILABLE<br>CHANNEL | TESTED<br>CHANNEL | MODULATION<br>TECHNOLOGY | MODULATION<br>TYPE | DATA<br>RATE<br>(Mbps) |
|--------------------------|---------|----------------------|-------------------|--------------------------|--------------------|------------------------|
| A                        | 802.11b | 1 to 11              | 1                 | DSSS                     | DBPSK              | 1.0                    |

For the test results, only the worst case was shown in test report.

**RADIATED EMISSION TEST (ABOVE 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

| EUT CONFIGURE MODE | MODE         | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|--------------|-------------------|----------------|-----------------------|-----------------|------------------|
| A                  | 802.11b      | 1 to 11           | 1, 6, 11       | DSSS                  | DBPSK           | 1.0              |
| A                  | 802.11g      | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6.0              |
| A                  | 802.11n HT20 | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6.5              |
| A                  | 802.11n HT40 | 3 to 9            | 3, 9           | OFDM                  | BPSK            | 13.5             |

**ANTENNA PORT CONDUCTED MEASUREMENT:**

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ 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.

| EUT CONFIGURE MODE | MODE         | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------|--------------|-------------------|----------------|-----------------------|-----------------|------------------|
| A                  | 802.11b      | 1 to 11           | 1, 6, 11       | DSSS                  | DBPSK           | 1.0              |
| A                  | 802.11g      | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6.0              |
| A                  | 802.11n HT20 | 1 to 11           | 1, 6, 11       | OFDM                  | BPSK            | 6.5              |
| A                  | 802.11n HT40 | 3 to 9            | 3, 6, 9        | OFDM                  | BPSK            | 13.5             |

**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER(POE)   | TESTED BY |
|---------------|--------------------------|--------------------|-----------|
| RE<1G         | 25deg. C, 53%RH          | DC 5V from Adapter | Hu        |
| RE≥1G         | 25deg. C, 53%RH          | DC 5V from Adapter | Hu        |
| PLC           | 20deg. C, 56%RH          | DC 5V from Adapter | Ming Bai  |
| APCM          | 25deg. C, 60%RH          | DC 5V from Adapter | Daniel    |

### **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, Section 15.247**

**KDB 558074 D01 15.247 Meas Guidance v05r02**

**ANSI C63.10-2013**

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

### **3.4 DESCRIPTION OF SUPPORT UNITS**

The EUT has been tested as an independent unit together without other necessary accessories or support units.

## 4 TEST TYPES AND RESULTS

### 4.1. CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

- NOTES:**
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 0.50MHz.
  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

| Equipment                | Manufacturer  | Model No.       | Serial No.     | Next Cal.  |
|--------------------------|---------------|-----------------|----------------|------------|
| EMI Test Receiver        | Rohde&Schwarz | ESR7            | 101494         | Mar. 17,21 |
| Artificial Mains Network | Rohde&Schwarz | ENV216          | 101173         | Mar. 17,21 |
| Artificial Mains Network | Rohde&Schwarz | ESH3-Z5         | 100317         | Mar. 17,21 |
| Voltage probe            | SCHWARZBECK   | TK 9421         | TK<br>9421-176 | Sep. 23,21 |
| Test software            | ADT           | ADT_Cond_V7.3.7 | N/A            | N/A        |

- NOTES:**
1. The test was performed in shielded room 553.
  2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

#### 4.1.3 TEST PROCEDURES

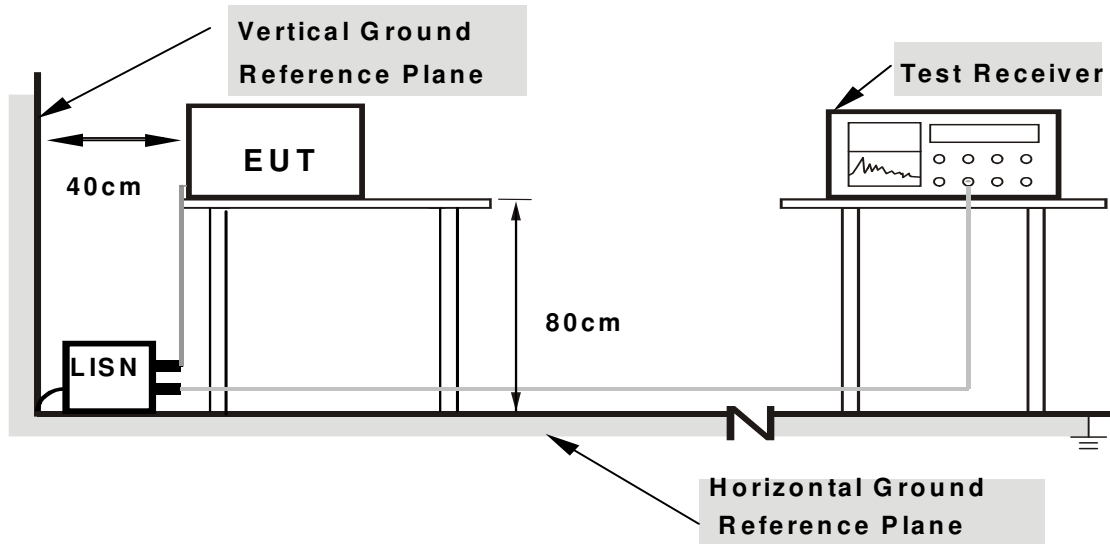
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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.

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 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 cm from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

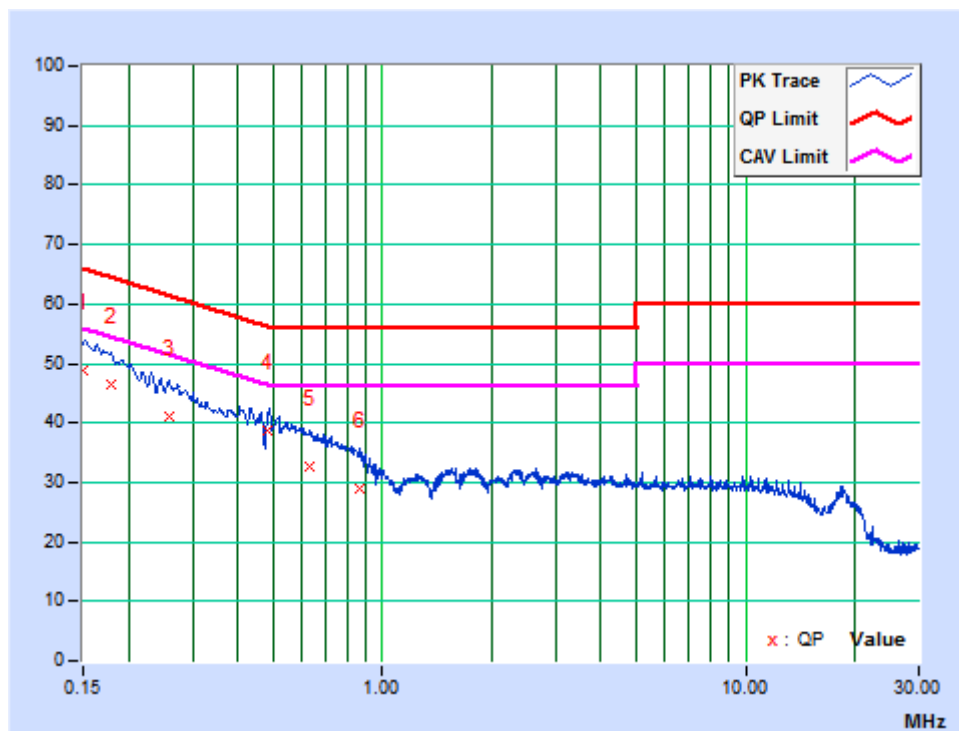
#### 4.1.7 TEST RESULTS

##### CONDUCTED WORST-CASE DATA: WIFI Link

|              |      |                      |      |
|--------------|------|----------------------|------|
| <b>PHASE</b> | Line | <b>6dB BANDWIDTH</b> | 9kHz |
|--------------|------|----------------------|------|

| 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        | 0.15000        | 9.77              | 39.13                   | 21.32        | 48.90                    | 31.09        | 66.00           | 56.00        | -17.10        | -24.91        |
| 2        | 0.17933        | 9.77              | 36.69                   | 20.39        | 46.46                    | 30.16        | 64.52           | 54.52        | -18.05        | -24.35        |
| 3        | 0.25885        | 9.80              | 31.32                   | 13.05        | 41.12                    | 22.85        | 61.47           | 51.47        | -20.34        | -28.61        |
| <b>4</b> | <b>0.48395</b> | <b>9.86</b>       | <b>28.97</b>            | <b>26.08</b> | <b>38.83</b>             | <b>35.94</b> | <b>56.27</b>    | <b>46.27</b> | <b>-17.44</b> | <b>-10.33</b> |
| 5        | 0.62925        | 9.84              | 22.81                   | 13.28        | 32.65                    | 23.12        | 56.00           | 46.00        | -23.35        | -22.88        |
| 6        | 0.86740        | 9.82              | 19.14                   | 10.25        | 28.96                    | 20.07        | 56.00           | 46.00        | -27.04        | -25.93        |

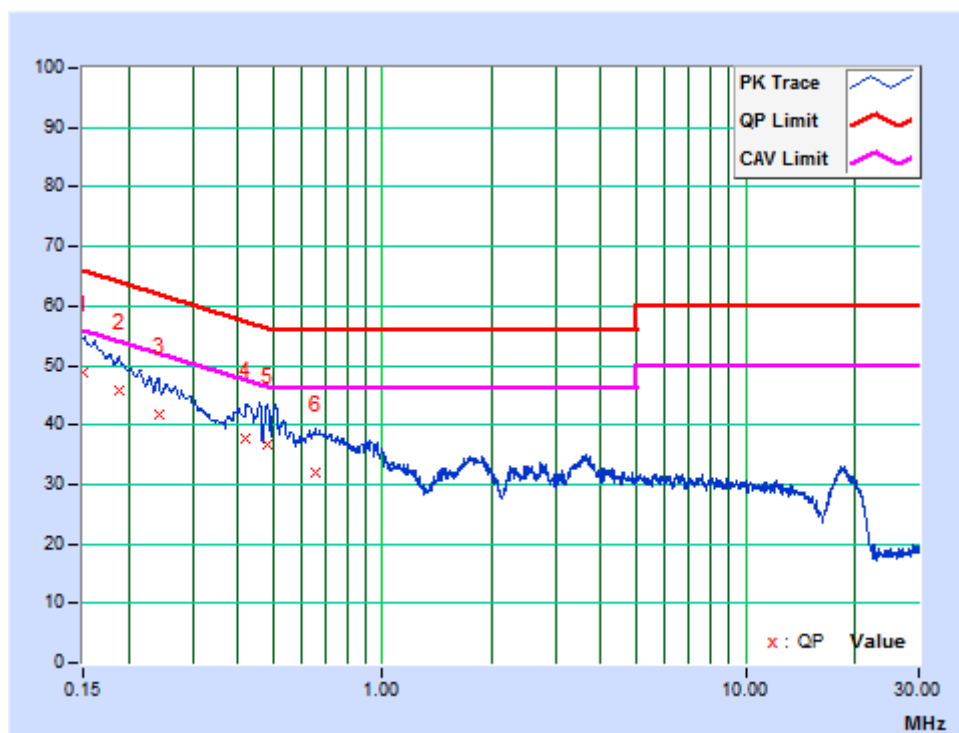
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value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



|       |         |               |      |
|-------|---------|---------------|------|
| PHASE | Neutral | 6dB BANDWIDTH | 9kHz |
|-------|---------|---------------|------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>(dB) | Reading Value<br>[dB (uV)] |       | Emission Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|----------------------------|-------|-----------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         | Q.P.                       | AV.   | Q.P.                        | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15000        | 9.70                    | 39.18                      | 21.03 | 48.88                       | 30.73 | 66.00              | 56.00 | -17.12         | -25.27 |
| 2  | 0.18806        | 9.71                    | 36.06                      | 17.98 | 45.77                       | 27.69 | 64.12              | 54.12 | -18.35         | -26.43 |
| 3  | 0.24167        | 9.73                    | 31.98                      | 12.35 | 41.71                       | 22.08 | 62.04              | 52.04 | -20.33         | -29.96 |
| 4  | 0.42000        | 9.80                    | 27.93                      | 9.37  | 37.73                       | 19.17 | 57.45              | 47.45 | -19.72         | -28.28 |
| 5  | 0.48268        | 9.81                    | 26.88                      | 14.46 | 36.69                       | 24.27 | 56.29              | 46.29 | -19.60         | -22.02 |
| 6  | 0.65175        | 9.78                    | 22.29                      | 7.71  | 32.07                       | 17.49 | 56.00              | 46.00 | -23.93         | -28.51 |

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



## 4.2. RADIATED EMISSION MEASUREMENT

### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

#### NOTES:

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

| Equipment                           | Manufacturer  | Model No.                    | Serial No.  | Next Cal.  |
|-------------------------------------|---------------|------------------------------|-------------|------------|
| EMI Test Receiver                   | Rohde&Schwarz | ESU40                        | 100449      | Mar. 17,21 |
| Signal and Spectrum Analyzer        | Rohde&Schwarz | FSV7                         | 102331      | May 13, 21 |
| Active Loop Antenna (9KHz -30MHz)   | SCHWARZBECK   | FMZB 1519B                   | 1519B-045   | May 29,21  |
| Amplifier (9KHz -1GHz)              | Burgeon       | BPA-530                      | 100210      | Mar. 14,21 |
| Bilog Antenna (20MHz -2GHz)         | Teseq         | CBL 6111D                    | 30643       | May 29,21  |
| Horn Antenna (1GHz -18GHz)          | ETS -Lindgren | 3117                         | 00062558    | May 29,21  |
| Horn Antenna (18GHz -40GHz)         | SCHWARZBECK   | BBHA 9170                    | BBHA9170147 | May 09, 21 |
| 3m Semi-anechoic Chamber            | ETS-LINDGREN  | 9m*6m*6m                     | NSEMC003    | May 22,21  |
| Test Software                       | ADT           | ADT_Radiated_V<br>7.6.15.9.2 | N/A         | N/A        |
| Broadband Preamplifier (1GHz~18GHz) | SCHWARZBECK   | BBV9718                      | 305         | May 08,21  |
| Pre-Amplifier (18GHz-40GHz)         | EMCI          | EMC 184045                   | 980102      | Mar. 03,21 |
| Test Software                       | ADT           | ADT_Radiated_V<br>7.6.15.9.2 | N/A         | N/A        |

**NOTES:**

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 749762.

#### 4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn 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. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

#### NOTES:

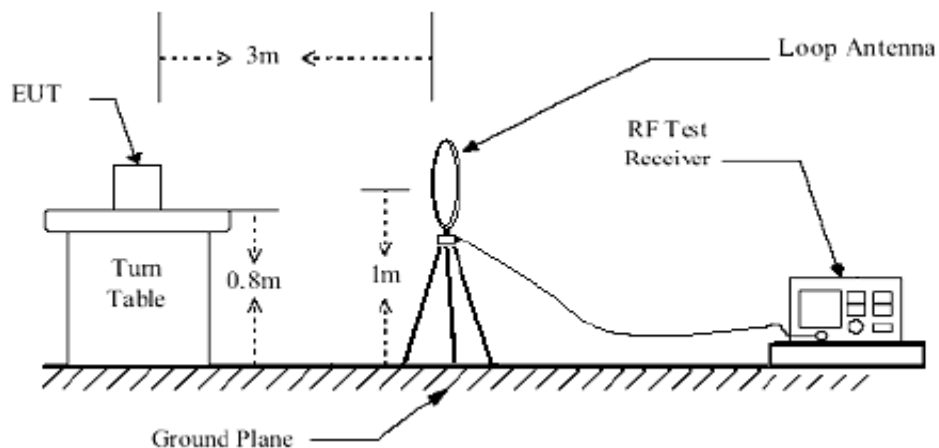
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes, the worst-case test configuration was reported on the file test setup photo.

#### 4.2.4 DEVIATION FROM TEST STANDARD

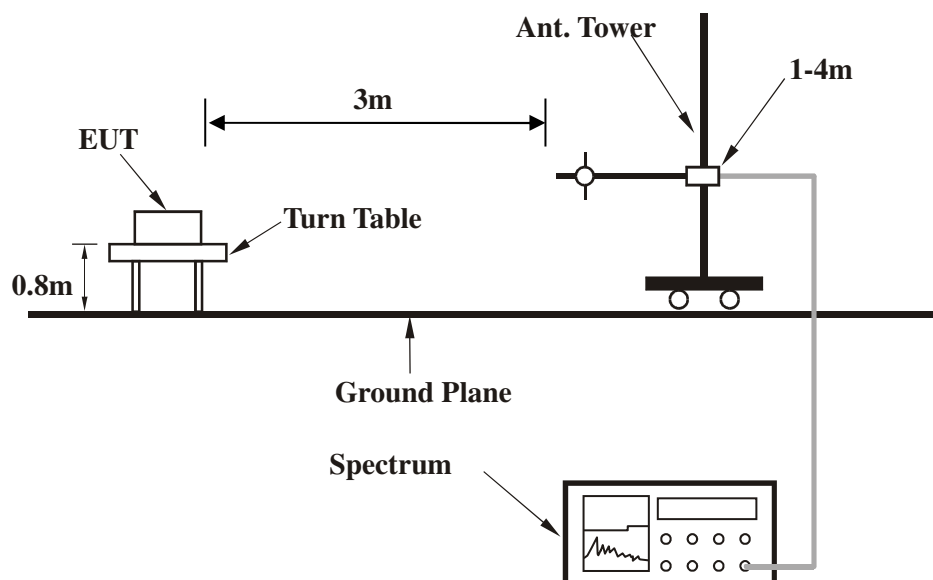
No deviation.

#### 4.2.5 TEST SETUP

##### Below 30MHz test setup

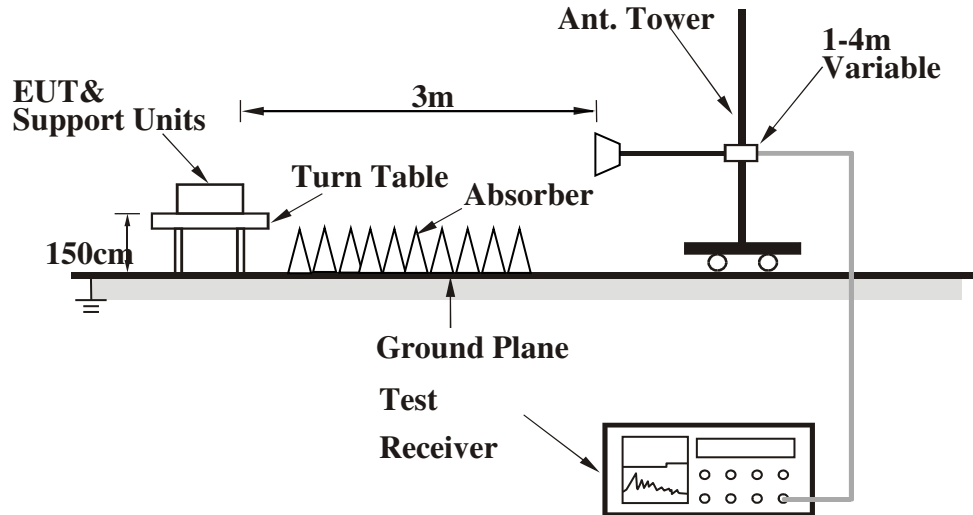


##### Below 1GHz test setup



**Note:** For the actual test configuration, please refer to the attached file (Test Setup Photo).

### Above 1GHz test setup



**Note:** For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT OPERATING CONDITIONS

- Placed the EUT on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

## 4.2.7 TEST RESULTS

### BELOW 1GHz WORST-CASE DATA:

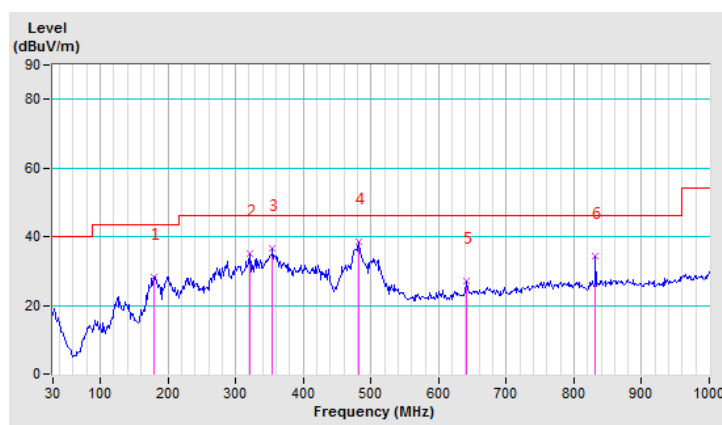
#### 802.11b

|                        |              |                              |                 |
|------------------------|--------------|------------------------------|-----------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 9KHz ~ 1GHz  |                              |                 |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 179.23         | 28.12 QP                      | 43.50             | -15.38         | 2.00 H                   | 82                         | 47.09                  | -18.97                         |
| 2                                                   | 320.69         | 35.05 QP                      | 46.00             | -10.95         | 2.00 H                   | 104                        | 48.71                  | -13.66                         |
| 3                                                   | 354.89         | 36.56 QP                      | 46.00             | -9.44          | 2.00 H                   | 114                        | 49.16                  | -12.60                         |
| 4                                                   | 482.36         | 38.59 QP                      | 46.00             | -7.41          | 2.00 H                   | 127                        | 48.59                  | -10.00                         |
| 5                                                   | 640.91         | 26.89 QP                      | 46.00             | -19.11         | 2.00 H                   | 139                        | 32.69                  | -5.80                          |
| 6                                                   | 832.12         | 34.31 QP                      | 46.00             | -11.69         | 2.00 H                   | 152                        | 37.29                  | -2.98                          |

#### 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 emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.

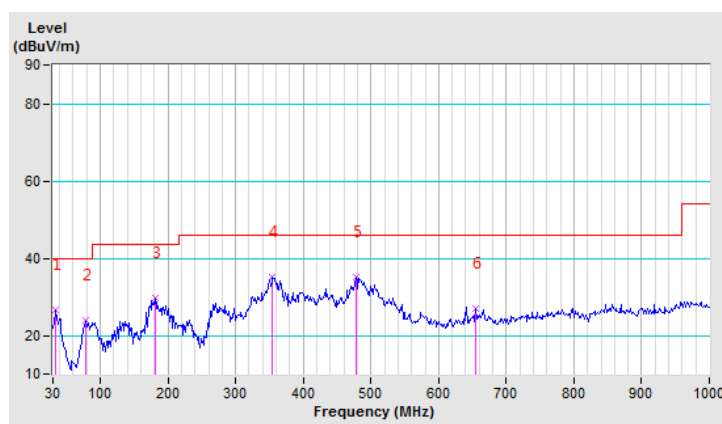


|                        |              |                              |                 |
|------------------------|--------------|------------------------------|-----------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR<br/>FUNCTION</b> | Quasi-Peak (QP) |
| <b>FREQUENCY RANGE</b> | 9KHz ~ 1GHz  |                              |                 |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|---------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                               | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                 | 34.66          | 26.55 QP                      | 40.00             | -13.45         | 1.00 V                   | 61                         | 40.48                  | -13.93                         |
| 2                                                 | 78.19          | 23.92 QP                      | 40.00             | -16.08         | 1.00 V                   | 46                         | 46.57                  | -22.65                         |
| 3                                                 | 180.79         | 29.66 QP                      | 43.50             | -13.84         | 1.00 V                   | 34                         | 48.72                  | -19.06                         |
| 4                                                 | 354.89         | 35.13 QP                      | 46.00             | -10.87         | 1.00 V                   | 23                         | 47.73                  | -12.60                         |
| 5                                                 | 477.69         | 35.09 QP                      | 46.00             | -10.91         | 1.00 V                   | 12                         | 45.18                  | -10.09                         |
| 6                                                 | 654.90         | 27.00 QP                      | 46.00             | -19.00         | 1.00 V                   | 2                          | 32.83                  | -5.83                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.



**ABOVE 1GHz DATA**  
**802.11b**

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |                        |                                        |                           |                        |                                   |                                     |                                 |                                         |
|----------------------------------------------------------------|------------------------|----------------------------------------|---------------------------|------------------------|-----------------------------------|-------------------------------------|---------------------------------|-----------------------------------------|
| <b>NO.</b>                                                     | <b>FREQ.<br/>(MHz)</b> | <b>EMISSION<br/>LEVEL<br/>(dBuV/m)</b> | <b>LIMIT<br/>(dBuV/m)</b> | <b>MARGIN<br/>(dB)</b> | <b>ANTENNA<br/>HEIGHT<br/>(m)</b> | <b>TABLE<br/>ANGLE<br/>(Degree)</b> | <b>RAW<br/>VALUE<br/>(dBuV)</b> | <b>CORRECTION<br/>FACTOR<br/>(dB/m)</b> |
| 1                                                              | 2390.00                | 47.21 PK                               | 74.00                     | -26.79                 | 1.00 H                            | 284                                 | 43.68                           | 3.53                                    |
| 2                                                              | 2390.00                | 34.93 AV                               | 54.00                     | -19.07                 | 1.00 H                            | 284                                 | 31.40                           | 3.53                                    |
| 3                                                              | *2412.00               | 104.47 PK                              |                           |                        | 1.00 H                            | 284                                 | 100.82                          | 3.65                                    |
| 4                                                              | *2412.00               | 99.48 AV                               |                           |                        | 1.00 H                            | 284                                 | 95.83                           | 3.65                                    |
| 5                                                              | 4824.00                | 53.91 PK                               | 74.00                     | -20.09                 | 1.00 H                            | 192                                 | 45.86                           | 8.05                                    |
| 6                                                              | 4824.00                | 41.81 AV                               | 54.00                     | -12.19                 | 1.00 H                            | 192                                 | 33.76                           | 8.05                                    |
| 7                                                              | #7236.00               | 56.27 PK                               | 74.00                     | -17.73                 | 1.00 H                            | 192                                 | 42.70                           | 13.57                                   |
| 8                                                              | #7236.00               | 43.05 AV                               | 54.00                     | -10.95                 | 1.00 H                            | 192                                 | 29.48                           | 13.57                                   |
| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>   |                        |                                        |                           |                        |                                   |                                     |                                 |                                         |
| <b>NO.</b>                                                     | <b>FREQ.<br/>(MHz)</b> | <b>EMISSION<br/>LEVEL<br/>(dBuV/m)</b> | <b>LIMIT<br/>(dBuV/m)</b> | <b>MARGIN<br/>(dB)</b> | <b>ANTENNA<br/>HEIGHT<br/>(m)</b> | <b>TABLE<br/>ANGLE<br/>(Degree)</b> | <b>RAW<br/>VALUE<br/>(dBuV)</b> | <b>CORRECTION<br/>FACTOR<br/>(dB/m)</b> |
| 1                                                              | 2390.00                | 45.39 PK                               | 74.00                     | -28.61                 | 1.24 V                            | 243                                 | 41.86                           | 3.53                                    |
| 2                                                              | 2390.00                | 33.23 AV                               | 54.00                     | -20.77                 | 1.24 V                            | 243                                 | 29.70                           | 3.53                                    |
| 3                                                              | *2412.00               | 101.34 PK                              |                           |                        | 1.24 V                            | 243                                 | 97.69                           | 3.65                                    |
| 4                                                              | *2412.00               | 96.26 AV                               |                           |                        | 1.24 V                            | 243                                 | 92.61                           | 3.65                                    |
| 5                                                              | 4824.00                | 54.19 PK                               | 74.00                     | -19.81                 | 1.00 V                            | 315                                 | 46.14                           | 8.05                                    |
| 6                                                              | 4824.00                | 43.89 AV                               | 54.00                     | -10.11                 | 1.00 V                            | 315                                 | 35.84                           | 8.05                                    |
| 7                                                              | #7236.00               | 55.91 PK                               | 74.00                     | -18.09                 | 1.00 V                            | 315                                 | 42.34                           | 13.57                                   |
| 8                                                              | #7236.00               | 43.82 AV                               | 54.00                     | -10.18                 | 1.00 V                            | 315                                 | 30.25                           | 13.57                                   |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 6 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2437.00       | 107.19 PK                     |                   |                | 1.00 H                   | 297                        | 103.42                 | 3.77                           |
| 2                                                   | *2437.00       | 102.17 AV                     |                   |                | 1.00 H                   | 297                        | 98.40                  | 3.77                           |
| 3                                                   | 4874.00        | 54.64 PK                      | 74.00             | -19.36         | 1.00 H                   | 243                        | 46.41                  | 8.23                           |
| 4                                                   | 4874.00        | 42.37 AV                      | 54.00             | -11.63         | 1.00 H                   | 243                        | 34.14                  | 8.23                           |
| 5                                                   | 7311.00        | 57.34 PK                      | 74.00             | -16.66         | 1.00 H                   | 315                        | 43.54                  | 13.80                          |
| 6                                                   | 7311.00        | 43.65 AV                      | 54.00             | -10.35         | 1.00 H                   | 315                        | 29.85                  | 13.80                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2437.00       | 103.47 PK                     |                   |                | 1.00 V                   | 128                        | 99.70                  | 3.77                           |
| 2                                                   | *2437.00       | 98.03 AV                      |                   |                | 1.00 V                   | 128                        | 94.26                  | 3.77                           |
| 3                                                   | 4874.00        | 55.29 PK                      | 74.00             | -18.71         | 1.00 V                   | 243                        | 47.06                  | 8.23                           |
| 4                                                   | 4874.00        | 44.42 AV                      | 54.00             | -9.58          | 1.00 V                   | 243                        | 36.19                  | 8.23                           |
| 5                                                   | 7311.00        | 57.34 PK                      | 74.00             | -16.66         | 1.00 V                   | 315                        | 43.54                  | 13.80                          |
| 6                                                   | 7311.00        | 43.94 AV                      | 54.00             | -10.06         | 1.00 V                   | 315                        | 30.14                  | 13.80                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 11 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2462.00       | 108.16 PK                     |                   |                | 1.00 H                   | 296                        | 104.27                 | 3.89                           |
| 2                                                   | *2462.00       | 95.43 AV                      |                   |                | 1.00 H                   | 296                        | 91.54                  | 3.89                           |
| 3                                                   | 2483.50        | 70.74 PK                      | 74.00             | -3.26          | 1.00 H                   | 296                        | 66.74                  | 4.00                           |
| 4                                                   | 2483.50        | 46.81 AV                      | 54.00             | -7.19          | 1.00 H                   | 296                        | 42.81                  | 4.00                           |
| 5                                                   | 4924.00        | 55.92 PK                      | 74.00             | -18.08         | 1.00 H                   | 185                        | 47.52                  | 8.40                           |
| 6                                                   | 4924.00        | 38.70 AV                      | 54.00             | -15.30         | 1.00 H                   | 185                        | 30.30                  | 8.40                           |
| 7                                                   | 7386.00        | 57.72 PK                      | 74.00             | -16.28         | 1.00 H                   | 185                        | 43.69                  | 14.03                          |
| 8                                                   | 7386.00        | 43.62 AV                      | 54.00             | -10.38         | 1.00 H                   | 185                        | 29.59                  | 14.03                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2462.00       | 103.55 PK                     |                   |                | 1.23 V                   | 124                        | 99.66                  | 3.89                           |
| 2                                                   | *2462.00       | 92.17 AV                      |                   |                | 1.23 V                   | 124                        | 88.28                  | 3.89                           |
| 3                                                   | 2483.50        | 65.34 PK                      | 74.00             | -8.66          | 1.23 V                   | 124                        | 61.34                  | 4.00                           |
| 4                                                   | 2483.50        | 36.17 AV                      | 54.00             | -17.83         | 1.23 V                   | 124                        | 32.17                  | 4.00                           |
| 5                                                   | 4924.00        | 54.37 PK                      | 74.00             | -19.63         | 1.23 V                   | 314                        | 45.97                  | 8.40                           |
| 6                                                   | 4924.00        | 38.25 AV                      | 54.00             | -15.75         | 1.23 V                   | 314                        | 29.85                  | 8.40                           |
| 7                                                   | 7386.00        | 58.17 PK                      | 74.00             | -15.83         | 1.00 V                   | 314                        | 44.14                  | 14.03                          |
| 8                                                   | 7386.00        | 44.44 AV                      | 54.00             | -9.56          | 1.00 V                   | 314                        | 30.41                  | 14.03                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency.

**802.11g**

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 66.04 PK                      | 74.00             | -7.96          | 1.22 H                   | 261                        | 62.51                  | 3.53                           |
| 2                                                   | 2390.00        | 42.42 AV                      | 54.00             | -11.58         | 1.22 H                   | 261                        | 38.89                  | 3.53                           |
| 3                                                   | *2412.00       | 106.93 PK                     |                   |                | 1.22 H                   | 261                        | 103.28                 | 3.65                           |
| 4                                                   | *2412.00       | 93.92 AV                      |                   |                | 1.22 H                   | 261                        | 90.27                  | 3.65                           |
| 5                                                   | 4824.00        | 55.09 PK                      | 74.00             | -18.91         | 1.00 H                   | 25                         | 47.04                  | 8.05                           |
| 6                                                   | 4824.00        | 36.47 AV                      | 54.00             | -17.53         | 1.00 H                   | 25                         | 28.42                  | 8.05                           |
| 7                                                   | #7236.00       | 55.09 PK                      | 74.00             | -18.91         | 1.00 H                   | 25                         | 41.52                  | 13.57                          |
| 8                                                   | #7236.00       | 36.47 AV                      | 54.00             | -17.53         | 1.00 H                   | 25                         | 22.90                  | 13.57                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 62.47 PK                      | 74.00             | -11.53         | 1.00 V                   | 278                        | 58.94                  | 3.53                           |
| 2                                                   | 2390.00        | 41.08 AV                      | 54.00             | -12.92         | 1.00 V                   | 278                        | 37.55                  | 3.53                           |
| 3                                                   | *2412.00       | 103.63 PK                     |                   |                | 1.00 V                   | 278                        | 99.98                  | 3.65                           |
| 4                                                   | *2412.00       | 90.68 AV                      |                   |                | 1.00 V                   | 278                        | 87.03                  | 3.65                           |
| 5                                                   | 4824.00        | 54.29 PK                      | 74.00             | -19.71         | 1.00 V                   | 241                        | 46.24                  | 8.05                           |
| 6                                                   | 4824.00        | 37.17 AV                      | 54.00             | -16.83         | 1.00 V                   | 241                        | 29.12                  | 8.05                           |
| 7                                                   | #7236.00       | 56.78 PK                      | 74.00             | -17.22         | 1.00 V                   | 317                        | 43.21                  | 13.57                          |
| 8                                                   | #7236.00       | 43.60 AV                      | 54.00             | -10.40         | 1.00 V                   | 317                        | 30.03                  | 13.57                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 6 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2437.00       | 109.60 PK                     |                   |                | 1.00 H                   | 73                         | 105.83                 | 3.77                           |
| 2                                                   | *2437.00       | 103.17 AV                     |                   |                | 1.00 H                   | 73                         | 99.40                  | 3.77                           |
| 3                                                   | 4874.00        | 53.19 PK                      | 74.00             | -20.81         | 1.00 H                   | 278                        | 44.96                  | 8.23                           |
| 4                                                   | 4874.00        | 38.52 AV                      | 54.00             | -15.48         | 1.00 H                   | 278                        | 30.29                  | 8.23                           |
| 5                                                   | 7311.00        | 56.17 PK                      | 74.00             | -17.83         | 1.00 H                   | 241                        | 42.37                  | 13.80                          |
| 6                                                   | 7311.00        | 43.44 AV                      | 54.00             | -10.56         | 1.00 H                   | 241                        | 29.64                  | 13.80                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2437.00       | 105.74 PK                     |                   |                | 1.86 V                   | 124                        | 101.97                 | 3.77                           |
| 2                                                   | *2437.00       | 92.20 AV                      |                   |                | 1.86 V                   | 124                        | 88.43                  | 3.77                           |
| 3                                                   | 4874.00        | 54.37 PK                      | 74.00             | -19.63         | 1.00 V                   | 278                        | 46.14                  | 8.23                           |
| 4                                                   | 4874.00        | 38.86 AV                      | 54.00             | -15.14         | 1.00 V                   | 278                        | 30.63                  | 8.23                           |
| 5                                                   | 7311.00        | 56.24 PK                      | 74.00             | -17.76         | 1.00 V                   | 241                        | 42.44                  | 13.80                          |
| 6                                                   | 7311.00        | 43.60 AV                      | 54.00             | -10.40         | 1.00 V                   | 241                        | 29.80                  | 13.80                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 11 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |                |                               |                   |                |                          |                            |                        |                                |
|----------------------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                            | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                              | *2462.00       | 108.14 PK                     |                   |                | 1.77 H                   | 70                         | 104.25                 | 3.89                           |
| 2                                                              | *2462.00       | 102.93 AV                     |                   |                | 1.77 H                   | 70                         | 99.04                  | 3.89                           |
| 3                                                              | 2483.50        | 51.50 PK                      | 74.00             | -22.50         | 1.77 H                   | 71                         | 47.50                  | 4.00                           |
| 4                                                              | 2483.50        | 38.90 AV                      | 54.00             | -15.10         | 1.77 H                   | 71                         | 34.90                  | 4.00                           |
| 5                                                              | 4924.00        | 54.24 PK                      | 74.00             | -19.76         | 1.00 H                   | 82                         | 45.84                  | 8.40                           |
| 6                                                              | 4924.00        | 43.79 AV                      | 54.00             | -10.21         | 1.00 H                   | 82                         | 35.39                  | 8.40                           |
| 7                                                              | 7386.00        | 60.34 PK                      | 74.00             | -13.66         | 1.00 H                   | 82                         | 46.31                  | 14.03                          |
| 8                                                              | 7386.00        | 49.24 AV                      | 54.00             | -4.76          | 1.00 H                   | 82                         | 35.21                  | 14.03                          |
| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                            | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                              | *2462.00       | 102.61 PK                     |                   |                | 1.00 V                   | 197                        | 98.72                  | 3.89                           |
| 2                                                              | *2462.00       | 97.18 AV                      |                   |                | 1.00 V                   | 197                        | 93.29                  | 3.89                           |
| 3                                                              | 2483.50        | 44.57 PK                      | 74.00             | -29.43         | 1.00 V                   | 197                        | 40.57                  | 4.00                           |
| 4                                                              | 2483.50        | 33.15 AV                      | 54.00             | -20.85         | 1.00 V                   | 197                        | 29.15                  | 4.00                           |
| 5                                                              | 4924.00        | 56.34 PK                      | 74.00             | -17.66         | 1.00 V                   | 171                        | 47.94                  | 8.40                           |
| 6                                                              | 4924.00        | 45.35 AV                      | 54.00             | -8.65          | 1.00 V                   | 171                        | 36.95                  | 8.40                           |
| 7                                                              | 7386.00        | 58.36 PK                      | 74.00             | -15.64         | 1.00 V                   | 171                        | 44.33                  | 14.03                          |
| 8                                                              | 7386.00        | 48.60 AV                      | 54.00             | -5.40          | 1.00 V                   | 171                        | 34.57                  | 14.03                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

**802.11n HT20**

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 1 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2412.00       | 105.17 PK                     |                   |                | 1.00 H                   | 285                        | 101.52                 | 3.65                           |
| 2                                                   | *2412.00       | 91.01 AV                      |                   |                | 1.00 H                   | 285                        | 87.36                  | 3.65                           |
| 3                                                   | 2483.50        | 64.15 PK                      | 74.00             | -9.85          | 1.00 H                   | 285                        | 60.15                  | 4.00                           |
| 4                                                   | 2483.50        | 40.18 AV                      | 54.00             | -13.82         | 1.00 H                   | 285                        | 36.18                  | 4.00                           |
| 5                                                   | 4824.00        | 55.39 PK                      | 74.00             | -18.61         | 1.00 H                   | 192                        | 47.34                  | 8.05                           |
| 6                                                   | 4824.00        | 39.11 AV                      | 54.00             | -14.89         | 1.00 H                   | 192                        | 31.06                  | 8.05                           |
| 7                                                   | #7236.00       | 58.15 PK                      | 74.00             | -15.85         | 1.00 H                   | 220                        | 44.58                  | 13.57                          |
| 8                                                   | #7236.00       | 43.04 AV                      | 54.00             | -10.96         | 1.00 H                   | 220                        | 29.47                  | 13.57                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 59.51 PK                      | 74.00             | -14.49         | 1.14 V                   | 244                        | 55.98                  | 3.53                           |
| 2                                                   | 2390.00        | 35.20 AV                      | 54.00             | -18.80         | 1.14 V                   | 244                        | 31.67                  | 3.53                           |
| 3                                                   | *2412.00       | 102.12 PK                     |                   |                | 1.14 V                   | 244                        | 98.47                  | 3.65                           |
| 4                                                   | *2412.00       | 95.15 AV                      |                   |                | 1.14 V                   | 244                        | 91.50                  | 3.65                           |
| 5                                                   | 4824.00        | 56.22 PK                      | 74.00             | -17.78         | 1.00 V                   | 316                        | 48.17                  | 8.05                           |
| 6                                                   | 4824.00        | 43.27 AV                      | 54.00             | -10.73         | 1.00 V                   | 316                        | 35.22                  | 8.05                           |
| 7                                                   | #7236.00       | 59.64 PK                      | 74.00             | -14.36         | 1.00 V                   | 316                        | 46.07                  | 13.57                          |
| 8                                                   | #7236.00       | 38.85 AV                      | 54.00             | -15.15         | 1.00 V                   | 316                        | 25.28                  | 13.57                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 6 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2437.00       | 101.36 PK                     |                   |                | 1.01 H                   | 298                        | 97.59                  | 3.77                           |
| 2                                                   | *2437.00       | 89.64 AV                      |                   |                | 1.01 H                   | 298                        | 85.87                  | 3.77                           |
| 3                                                   | 4874.00        | 54.35 PK                      | 74.00             | -19.65         | 1.00 H                   | 298                        | 46.12                  | 8.23                           |
| 4                                                   | 4874.00        | 37.99 AV                      | 54.00             | -16.01         | 1.00 H                   | 298                        | 29.76                  | 8.23                           |
| 5                                                   | 7311.00        | 58.34 PK                      | 74.00             | -15.66         | 1.00 H                   | 281                        | 44.54                  | 13.80                          |
| 6                                                   | 7311.00        | 42.32 AV                      | 54.00             | -11.68         | 1.00 H                   | 281                        | 28.52                  | 13.80                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2437.00       | 101.93 PK                     |                   |                | 1.00 V                   | 244                        | 98.16                  | 3.77                           |
| 2                                                   | *2437.00       | 89.23 AV                      |                   |                | 1.00 V                   | 244                        | 85.46                  | 3.77                           |
| 3                                                   | 4874.00        | 53.35 PK                      | 74.00             | -20.65         | 1.00 V                   | 244                        | 45.12                  | 8.23                           |
| 4                                                   | 4874.00        | 38.16 AV                      | 54.00             | -15.84         | 1.00 V                   | 244                        | 29.93                  | 8.23                           |
| 5                                                   | 7311.00        | 58.41 PK                      | 74.00             | -15.59         | 1.00 V                   | 254                        | 44.61                  | 13.80                          |
| 6                                                   | 7311.00        | 43.38 AV                      | 54.00             | -10.62         | 1.00 V                   | 254                        | 29.58                  | 13.80                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

|                        |               |                              |              |
|------------------------|---------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 11 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz  |                              | Average (AV) |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |                |                               |                   |                |                          |                            |                        |                                |
|----------------------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                            | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                              | *2462.00       | 103.80 PK                     |                   |                | 1.00 H                   | 297                        | 99.91                  | 3.89                           |
| 2                                                              | *2462.00       | 90.55 AV                      |                   |                | 1.00 H                   | 297                        | 86.66                  | 3.89                           |
| 3                                                              | 2483.50        | 66.58 PK                      | 74.00             | -7.42          | 1.00 H                   | 223                        | 62.58                  | 4.00                           |
| 4                                                              | 2483.50        | 44.78 AV                      | 54.00             | -9.22          | 1.00 H                   | 223                        | 40.78                  | 4.00                           |
| 5                                                              | 4924.00        | 53.14 PK                      | 74.00             | -20.86         | 1.00 H                   | 14                         | 44.74                  | 8.40                           |
| 6                                                              | 4924.00        | 36.54 AV                      | 54.00             | -17.46         | 1.00 H                   | 14                         | 28.14                  | 8.40                           |
| 7                                                              | 7386.00        | 56.34 PK                      | 74.00             | -17.66         | 1.00 H                   | 14                         | 42.31                  | 14.03                          |
| 8                                                              | 7386.00        | 43.27 AV                      | 54.00             | -10.73         | 1.00 H                   | 14                         | 29.24                  | 14.03                          |
| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                            | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                              | *2462.00       | 101.32 PK                     |                   |                | 1.51 V                   | 125                        | 97.43                  | 3.89                           |
| 2                                                              | *2462.00       | 87.43 AV                      |                   |                | 1.51 V                   | 125                        | 83.54                  | 3.89                           |
| 3                                                              | 2483.50        | 51.71 PK                      | 74.00             | -22.29         | 1.00 V                   | 244                        | 47.71                  | 4.00                           |
| 4                                                              | 2483.50        | 36.65 AV                      | 54.00             | -17.35         | 1.00 V                   | 244                        | 32.65                  | 4.00                           |
| 5                                                              | 4924.00        | 53.64 PK                      | 74.00             | -20.36         | 1.00 V                   | 244                        | 45.24                  | 8.40                           |
| 6                                                              | 4924.00        | 36.32 AV                      | 54.00             | -17.68         | 1.00 V                   | 316                        | 27.92                  | 8.40                           |
| 7                                                              | 7386.00        | 59.34 PK                      | 74.00             | -14.66         | 1.00 V                   | 316                        | 45.31                  | 14.03                          |
| 8                                                              | 7386.00        | 43.05 AV                      | 54.00             | -10.95         | 1.00 V                   | 316                        | 29.02                  | 14.03                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. "\*" : Fundamental frequency.

**802.11n HT40**

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 3 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 59.08 PK                      | 74.00             | -14.92         | 1.00 H                   | 354                        | 55.55                  | 3.53                           |
| 2                                                   | 2390.00        | 41.01 AV                      | 54.00             | -12.99         | 1.00 H                   | 354                        | 37.48                  | 3.53                           |
| 3                                                   | *2422.00       | 101.24 PK                     |                   |                | 1.00 H                   | 96                         | 97.54                  | 3.70                           |
| 4                                                   | *2422.00       | 86.44 AV                      |                   |                | 1.00 H                   | 96                         | 82.74                  | 3.70                           |
| 5                                                   | 4844.00        | 53.41 PK                      | 74.00             | -20.59         | 1.00 H                   | 96                         | 45.29                  | 8.12                           |
| 6                                                   | 4844.00        | 38.87 AV                      | 54.00             | -15.13         | 1.00 H                   | 96                         | 30.75                  | 8.12                           |
| 7                                                   | 7266.00        | 58.64 PK                      | 74.00             | -15.36         | 1.00 H                   | 125                        | 44.98                  | 13.66                          |
| 8                                                   | 7266.00        | 42.13 AV                      | 54.00             | -11.87         | 1.00 H                   | 125                        | 28.47                  | 13.66                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | 2390.00        | 60.66 PK                      | 74.00             | -13.34         | 1.00 V                   | 360                        | 57.13                  | 3.53                           |
| 2                                                   | 2390.00        | 43.41 AV                      | 54.00             | -10.59         | 1.00 V                   | 360                        | 39.88                  | 3.53                           |
| 3                                                   | *2422.00       | 100.78 PK                     |                   |                | 1.00 V                   | 213                        | 97.08                  | 3.70                           |
| 4                                                   | *2422.00       | 89.64 AV                      |                   |                | 1.00 V                   | 213                        | 85.94                  | 3.70                           |
| 5                                                   | 4844.00        | 57.34 PK                      | 74.00             | -16.66         | 1.00 V                   | 213                        | 49.22                  | 8.12                           |
| 6                                                   | 4844.00        | 38.80 AV                      | 54.00             | -15.20         | 1.00 V                   | 213                        | 30.68                  | 8.12                           |
| 7                                                   | 7266.00        | 56.34 PK                      | 74.00             | -17.66         | 1.00 V                   | 255                        | 42.68                  | 13.66                          |
| 8                                                   | 7266.00        | 42.62 AV                      | 54.00             | -11.38         | 1.00 V                   | 255                        | 28.96                  | 13.66                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 6 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2437.00       | 99.46 PK                      |                   |                | 1.00 H                   | 297                        | 95.69                  | 3.77                           |
| 2                                                   | *2437.00       | 85.31 AV                      |                   |                | 1.00 H                   | 297                        | 81.54                  | 3.77                           |
| 3                                                   | 4874.00        | 56.25 PK                      | 74.00             | -17.75         | 1.00 H                   | 297                        | 48.02                  | 8.23                           |
| 4                                                   | 4874.00        | 37.48 AV                      | 54.00             | -16.52         | 1.00 H                   | 297                        | 29.25                  | 8.23                           |
| 5                                                   | 7311.00        | 59.34 PK                      | 74.00             | -14.66         | 1.00 H                   | 213                        | 45.54                  | 13.80                          |
| 6                                                   | 7311.00        | 42.44 AV                      | 54.00             | -11.56         | 1.00 H                   | 213                        | 28.64                  | 13.80                          |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2437.00       | 99.88 PK                      |                   |                | 1.00 V                   | 360                        | 96.11                  | 3.77                           |
| 2                                                   | *2437.00       | 84.71 AV                      |                   |                | 1.00 V                   | 360                        | 80.94                  | 3.77                           |
| 3                                                   | 4874.00        | 53.64 PK                      | 74.00             | -20.36         | 1.00 V                   | 360                        | 45.41                  | 8.23                           |
| 4                                                   | 4874.00        | 37.50 AV                      | 54.00             | -16.50         | 1.00 V                   | 360                        | 29.27                  | 8.23                           |
| 5                                                   | 7311.00        | 56.39 PK                      | 74.00             | -17.61         | 1.00 V                   | 214                        | 42.59                  | 13.80                          |
| 6                                                   | 7311.00        | 42.35 AV                      | 54.00             | -11.65         | 1.00 V                   | 214                        | 28.55                  | 13.80                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

|                        |              |                              |              |
|------------------------|--------------|------------------------------|--------------|
| <b>CHANNEL</b>         | TX Channel 9 | <b>DETECTOR<br/>FUNCTION</b> | Peak (PK)    |
| <b>FREQUENCY RANGE</b> | 1GHz ~ 25GHz |                              | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                |                               |                   |                |                          |                            |                        |                                |
|-----------------------------------------------------|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2452.00       | 98.74 PK                      |                   |                | 1.00 H                   | 237                        | 94.90                  | 3.84                           |
| 2                                                   | *2452.00       | 83.59 AV                      |                   |                | 1.00 H                   | 237                        | 79.75                  | 3.84                           |
| 3                                                   | 2483.50        | 57.97 PK                      | 74.00             | -16.03         | 1.00 H                   | 237                        | 53.97                  | 4.00                           |
| 4                                                   | 2483.50        | 41.89 AV                      | 54.00             | -12.11         | 1.00 H                   | 237                        | 37.89                  | 4.00                           |
| 5                                                   | 4904.00        | 53.44 PK                      | 74.00             | -20.56         | 1.00 H                   | 127                        | 45.11                  | 8.33                           |
| 6                                                   | 4904.00        | 37.08 AV                      | 54.00             | -16.92         | 1.00 H                   | 127                        | 28.75                  | 8.33                           |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M   |                |                               |                   |                |                          |                            |                        |                                |
| NO.                                                 | FREQ.<br>(MHz) | EMISSION<br>LEVEL<br>(dBuV/m) | LIMIT<br>(dBuV/m) | MARGIN<br>(dB) | ANTENNA<br>HEIGHT<br>(m) | TABLE<br>ANGLE<br>(Degree) | RAW<br>VALUE<br>(dBuV) | CORRECTION<br>FACTOR<br>(dB/m) |
| 1                                                   | *2452.00       | 98.66 PK                      |                   |                | 1.49 V                   | 128                        | 94.82                  | 3.84                           |
| 2                                                   | *2452.00       | 87.01 AV                      |                   |                | 1.49 V                   | 128                        | 83.17                  | 3.84                           |
| 3                                                   | 2483.50        | 53.76 PK                      | 74.00             | -20.24         | 1.49 V                   | 128                        | 49.76                  | 4.00                           |
| 4                                                   | 2483.50        | 37.74 AV                      | 54.00             | -16.26         | 1.49 V                   | 128                        | 33.74                  | 4.00                           |
| 5                                                   | 4904.00        | 56.41 PK                      | 74.00             | -17.59         | 1.00 V                   | 216                        | 48.08                  | 8.33                           |
| 6                                                   | 4904.00        | 36.90 AV                      | 54.00             | -17.10         | 1.00 V                   | 216                        | 28.57                  | 8.33                           |
| 7                                                   | 7356.00        | 55.41 PK                      | 74.00             | -18.59         | 1.00 V                   | 216                        | 41.47                  | 13.94                          |
| 8                                                   | 7356.00        | 42.77 AV                      | 54.00             | -11.23         | 1.00 V                   | 216                        | 28.83                  | 13.94                          |

**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 emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " \* ": Fundamental frequency.

### 4.3 6dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 TEST INSTRUMENTS

| Equipment                        | Manufacturer  | Model No. | Serial No.  | Next Cal.  |
|----------------------------------|---------------|-----------|-------------|------------|
| Power Sensor                     | Keysight      | U2021XA   | MY55060016  | N/A        |
| Power Sensor                     | Keysight      | U2021XA   | MY55060018  | Jun. 03,21 |
| Power Meter                      | Anritsu       | ML2495A   | 1139001     | Mar. 17,21 |
| Power Sensor                     | Anritsu       | MA2411B   | 1531155     | Mar. 17,21 |
| Digital Multimeter               | FLUKE         | 15B       | A1220010DG  | N/A        |
| Humid & Temp Programmable Tester | Haida         | HD-225T   | 110807201   | Oct. 30,21 |
| Oscilloscope                     | Agilent       | DSO9254A  | MY51260160  | Sep. 17,21 |
| Signal and Spectrum Analyzer     | Rohde&Schwarz | FSV40     | 101094      | Mar. 17,21 |
| Signal Generator                 | Agilent       | N5183A    | MY50140980  | Sep. 18,21 |
| MXG-B RF Vector Signal Generator | Keysight      | N5182B    | MY56200288  | Sep. 11,21 |
| Attenuator                       | MINI          | BW-S10W2+ | S130129FGE2 | N/A        |
| DC Source                        | Keysight      | E3642A    | MY56146098  | N/A        |

**NOTES:** 1. The test was performed in RF Oven room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

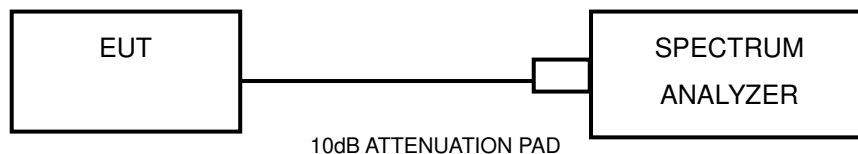
#### 4.3.3 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 100KHz
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
3. Trace mode = max hold.
4. Sweep = auto couple.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### 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

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | 6dB<br>BANDWIDTH<br>(MHz) | MINIMUM LIMIT<br>(MHz) | PASS / FAIL |
|---------|-------------------------------|---------------------------|------------------------|-------------|
| 1       | 2412                          | 9.06                      | 0.5                    | PASS        |
| 6       | 2437                          | 8.57                      | 0.5                    | PASS        |
| 11      | 2462                          | 8.11                      | 0.5                    | PASS        |

##### 802.11g

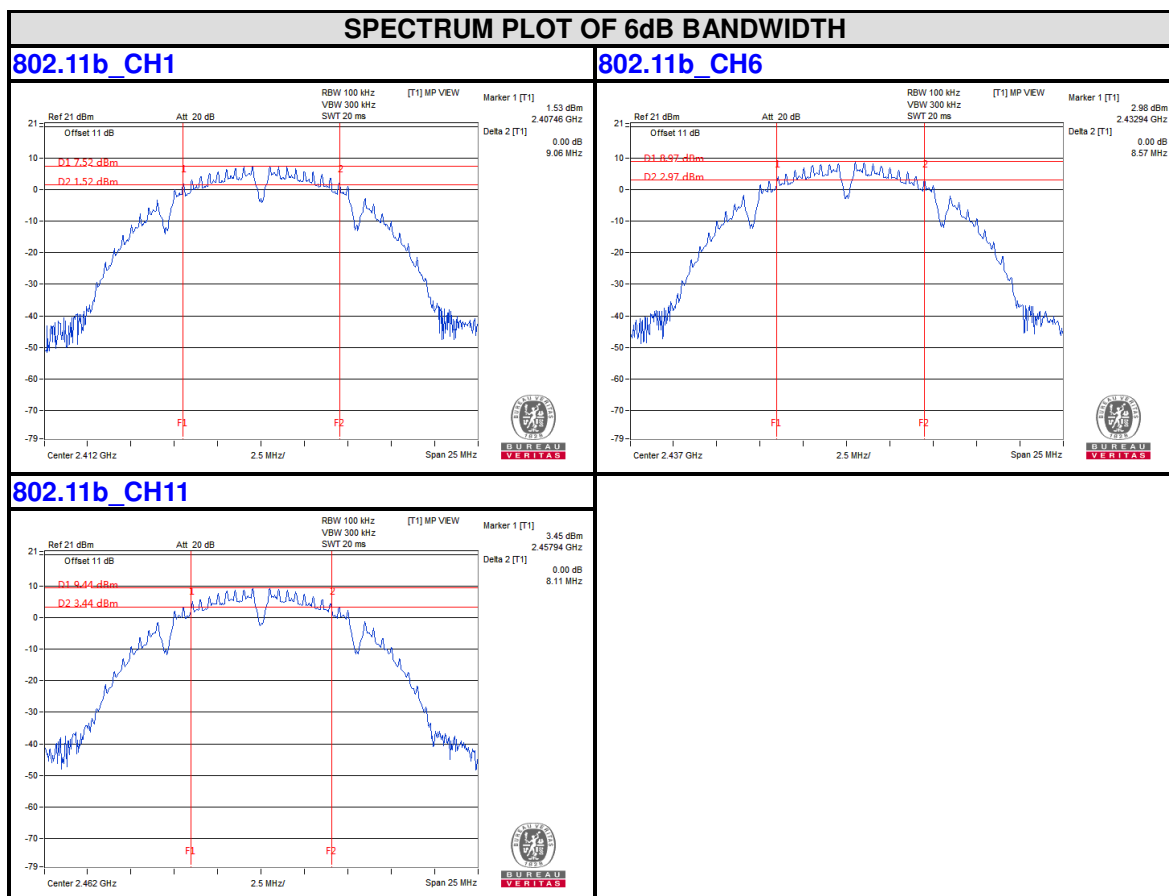
| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | 6dB<br>BANDWIDTH<br>(MHz) | MINIMUM LIMIT<br>(MHz) | PASS / FAIL |
|---------|-------------------------------|---------------------------|------------------------|-------------|
| 1       | 2412                          | 16.38                     | 0.5                    | PASS        |
| 6       | 2437                          | 16.41                     | 0.5                    | PASS        |
| 11      | 2462                          | 16.43                     | 0.5                    | PASS        |

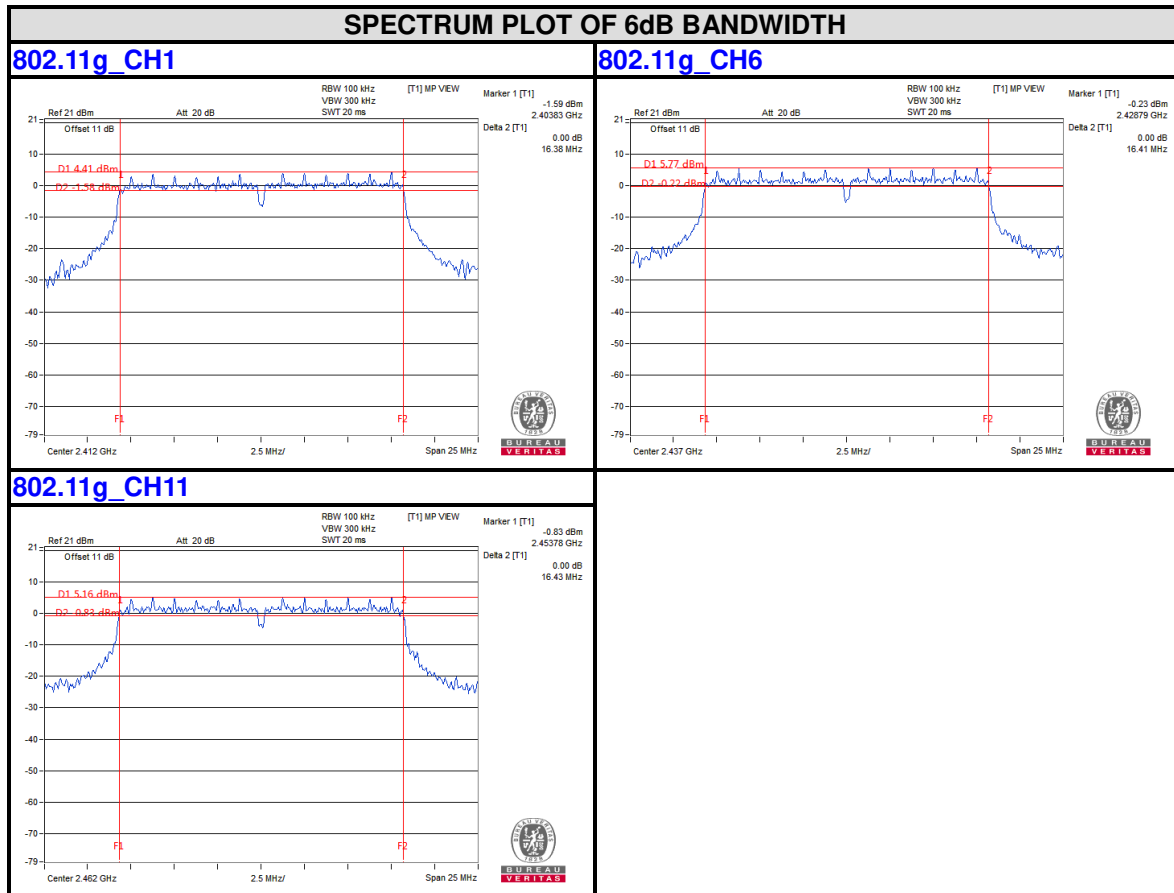
##### 802.11n HT20

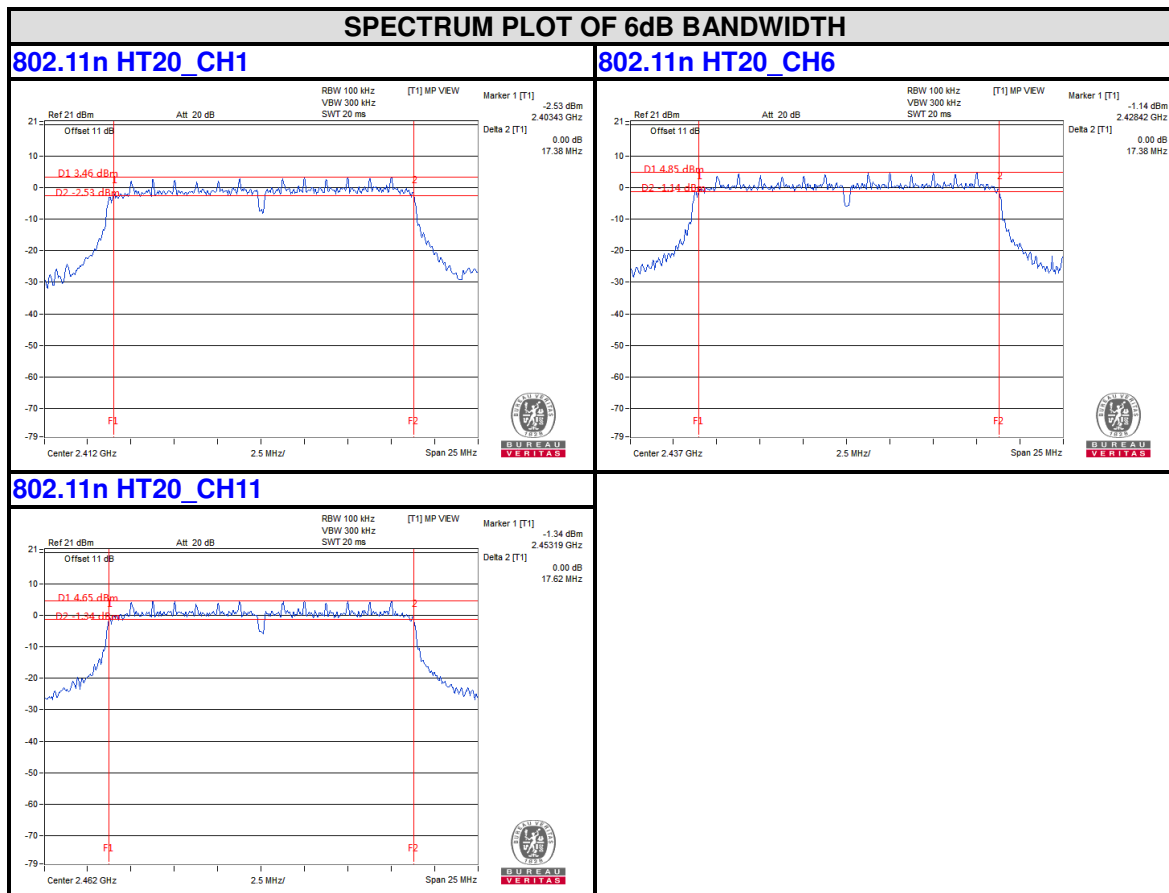
| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | 6dB<br>BANDWIDTH<br>(MHz) | MINIMUM LIMIT<br>(MHz) | PASS / FAIL |
|---------|-------------------------------|---------------------------|------------------------|-------------|
| 1       | 2412                          | 17.38                     | 0.5                    | PASS        |
| 6       | 2437                          | 17.38                     | 0.5                    | PASS        |
| 11      | 2462                          | 17.62                     | 0.5                    | PASS        |

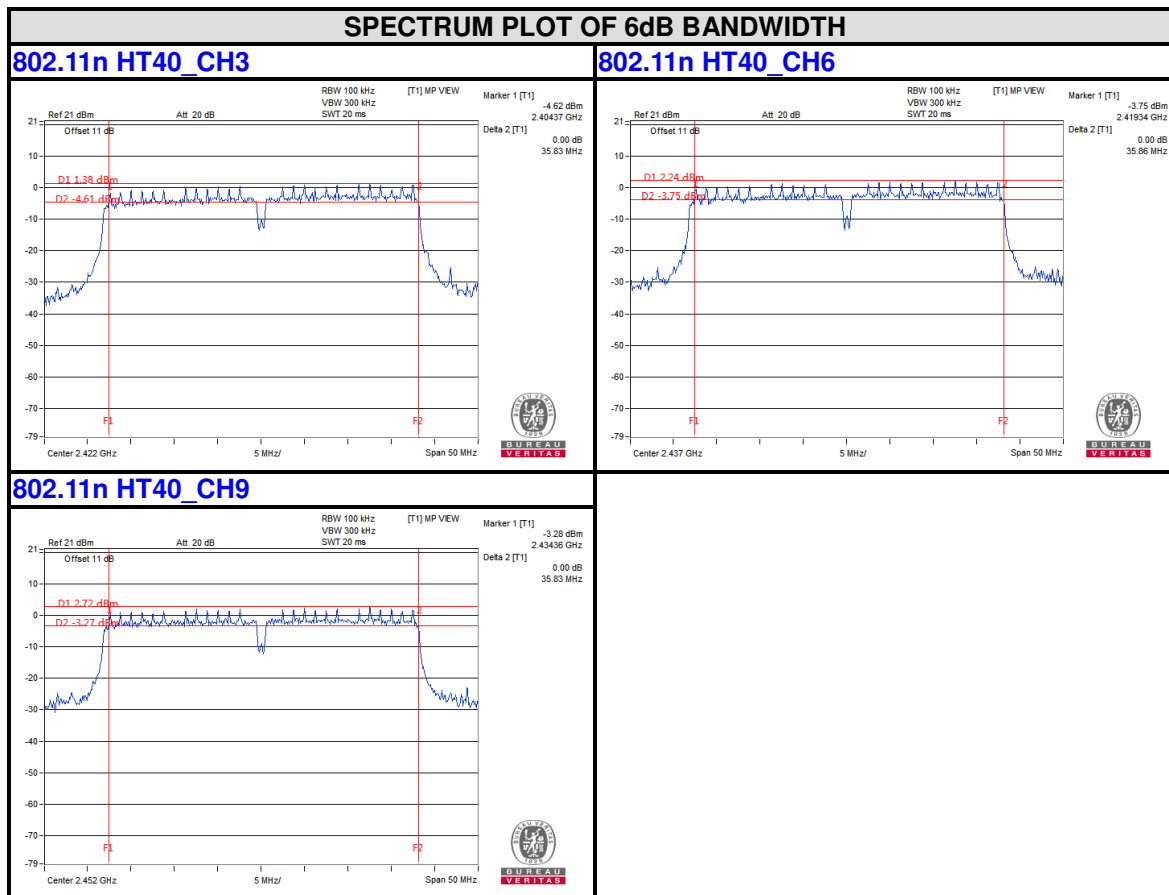
##### 802.11n HT40

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | 6dB<br>BANDWIDTH<br>(MHz) | MINIMUM LIMIT<br>(MHz) | PASS / FAIL |
|---------|-------------------------------|---------------------------|------------------------|-------------|
| 3       | 2422                          | 35.83                     | 0.5                    | PASS        |
| 6       | 2437                          | 35.86                     | 0.5                    | PASS        |
| 9       | 2452                          | 35.83                     | 0.5                    | PASS        |







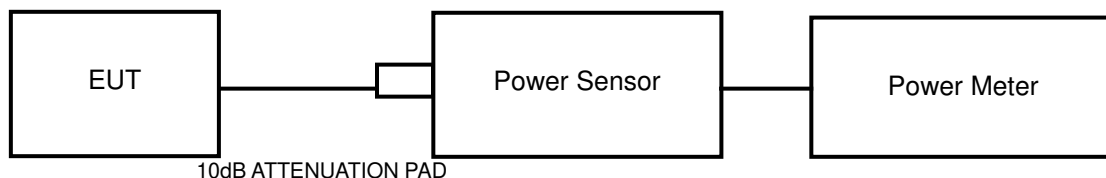


## 4.4 CONDUCTED OUTPUT POWER

### 4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

For systems using digital modulation in the 2400–2483.5 MHz band: 1 Watt (30dBm).

### 4.4.2 TEST SETUP



### 4.4.3 TEST INSTRUMENTS

| Equipment                        | Manufacturer  | Model No. | Serial No.  | Next Cal.  |
|----------------------------------|---------------|-----------|-------------|------------|
| Power Sensor                     | Keysight      | U2021XA   | MY55060016  | N/A        |
| Power Sensor                     | Keysight      | U2021XA   | MY55060018  | Jun. 03,21 |
| Power Meter                      | Anritsu       | ML2495A   | 1139001     | Mar. 17,21 |
| Power Sensor                     | Anritsu       | MA2411B   | 1531155     | Mar. 17,21 |
| Digital Multimeter               | FLUKE         | 15B       | A1220010DG  | N/A        |
| Humid & Temp Programmable Tester | Haida         | HD-225T   | 110807201   | Oct. 30,21 |
| Oscilloscope                     | Agilent       | DSO9254A  | MY51260160  | Sep. 17,21 |
| Signal and Spectrum Analyzer     | Rohde&Schwarz | FSV40     | 101094      | Mar. 17,21 |
| Signal Generator                 | Agilent       | N5183A    | MY50140980  | Sep. 18,21 |
| MXG-B RF Vector Signal Generator | Keysight      | N5182B    | MY56200288  | Sep. 11,21 |
| Attenuator                       | MINI          | BW-S10W2+ | S130129FGE2 | N/A        |
| DC Source                        | Keysight      | E3642A    | MY56146098  | N/A        |

#### NOTES:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

#### 4.4.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A peak power meter was used to read the response of the peak power sensor. Record the peak power level.

#### 4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4.6 EUT OPERATING CONDITIONS

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

#### 4.4.7 TEST RESULTS

##### MAXIMUM PEAK OUTPUT POWER

###### 802.11b

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PEAK<br>POWER<br>(dBm) | PEAK<br>POWER<br>(mW) | PEAK<br>POWER LIMIT<br>(W) | PASS/FAIL |
|---------|-------------------------------|------------------------|-----------------------|----------------------------|-----------|
| 1       | 2412                          | 19.35                  | 86.099                | 1                          | PASS      |
| 6       | 2437                          | 20.17                  | 103.992               | 1                          | PASS      |
| 11      | 2462                          | 20.74                  | 118.577               | 1                          | PASS      |

###### 802.11g

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PEAK<br>POWER<br>(dBm) | PEAK<br>POWER<br>(mW) | PEAK<br>POWER LIMIT<br>(W) | PASS/FAIL |
|---------|-------------------------------|------------------------|-----------------------|----------------------------|-----------|
| 1       | 2412                          | 23.66                  | 232.274               | 1                          | PASS      |
| 6       | 2437                          | <b>25.12</b>           | <b>325.087</b>        | 1                          | PASS      |
| 11      | 2462                          | 25.02                  | 317.687               | 1                          | PASS      |

###### 802.11n HT20

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PEAK<br>POWER<br>(dBm) | PEAK<br>POWER<br>(mW) | PEAK<br>POWER LIMIT<br>(W) | PASS/FAIL |
|---------|-------------------------------|------------------------|-----------------------|----------------------------|-----------|
| 1       | 2412                          | 22.81                  | 190.985               | 1                          | PASS      |
| 6       | 2437                          | 24.23                  | 264.85                | 1                          | PASS      |
| 11      | 2462                          | 24.84                  | 304.789               | 1                          | PASS      |

###### 802.11n HT40

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PEAK<br>POWER<br>(dBm) | PEAK<br>POWER<br>(mW) | PEAK<br>POWER LIMIT<br>(W) | PASS/FAIL |
|---------|-------------------------------|------------------------|-----------------------|----------------------------|-----------|
| 3       | 2422                          | 23.22                  | 209.894               | 1                          | PASS      |
| 6       | 2437                          | 24.34                  | 271.644               | 1                          | PASS      |
| 9       | 2452                          | 24.66                  | 292.415               | 1                          | PASS      |

## AVERAGE OUTPUT POWER (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

### 802.11b

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | AVERAGE<br>POWER (dBm) | AVG.<br>POWER<br>(mW) |
|---------|-------------------------------|------------------------|-----------------------|
| 1       | 2412                          | 16.41                  | 43.752                |
| 6       | 2437                          | 17.07                  | 50.933                |
| 11      | 2462                          | 17.65                  | 58.21                 |

### 802.11g

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | AVERAGE<br>POWER (dBm) | AVG.<br>POWER<br>(mW) |
|---------|-------------------------------|------------------------|-----------------------|
| 1       | 2412                          | 15.70                  | 37.154                |
| 6       | 2437                          | 17.28                  | 53.456                |
| 11      | 2462                          | 17.33                  | 54.075                |

### 802.11n HT20

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | AVERAGE<br>POWER (dBm) | AVG.<br>POWER<br>(mW) |
|---------|-------------------------------|------------------------|-----------------------|
| 1       | 2412                          | 14.90                  | 30.903                |
| 6       | 2437                          | 16.33                  | 42.954                |
| 11      | 2462                          | 16.47                  | 44.361                |

### 802.11n HT40

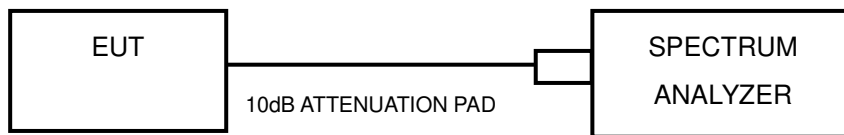
| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | AVERAGE<br>POWER (dBm) | AVG.<br>POWER<br>(mW) |
|---------|-------------------------------|------------------------|-----------------------|
| 3       | 2422                          | 15.41                  | 34.754                |
| 6       | 2437                          | 16.14                  | 41.115                |
| 9       | 2452                          | 16.85                  | 48.417                |

## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

### 4.5.2 TEST SETUP



### 4.5.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

### 4.5.4 TEST PROCEDURE

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to 1.5 times the DTS bandwidth.
- c) Set RBW to: 3KHz
- d) Set VBW  $\geq 3 \times$  RBW.
- e) Detector = peak
- f) Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
- g) Sweep time = auto couple.
- h) Use the peak marker function to determine the maximum amplitude level.

### 4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.5.6 EUT OPERATING CONDITION

Same as item 4.3.6.

#### 4.5.7 TEST RESULTS

##### 802.11b

| Channel | FREQ.<br>(MHz) | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | PASS<br>/FAIL |
|---------|----------------|-------------------|---------------------|---------------|
| 1       | 2412           | -6.54             | 8.00                | PASS          |
| 6       | 2437           | -5.28             | 8.00                | PASS          |
| 11      | 2462           | -4.69             | 8.00                | PASS          |

##### 802.11g

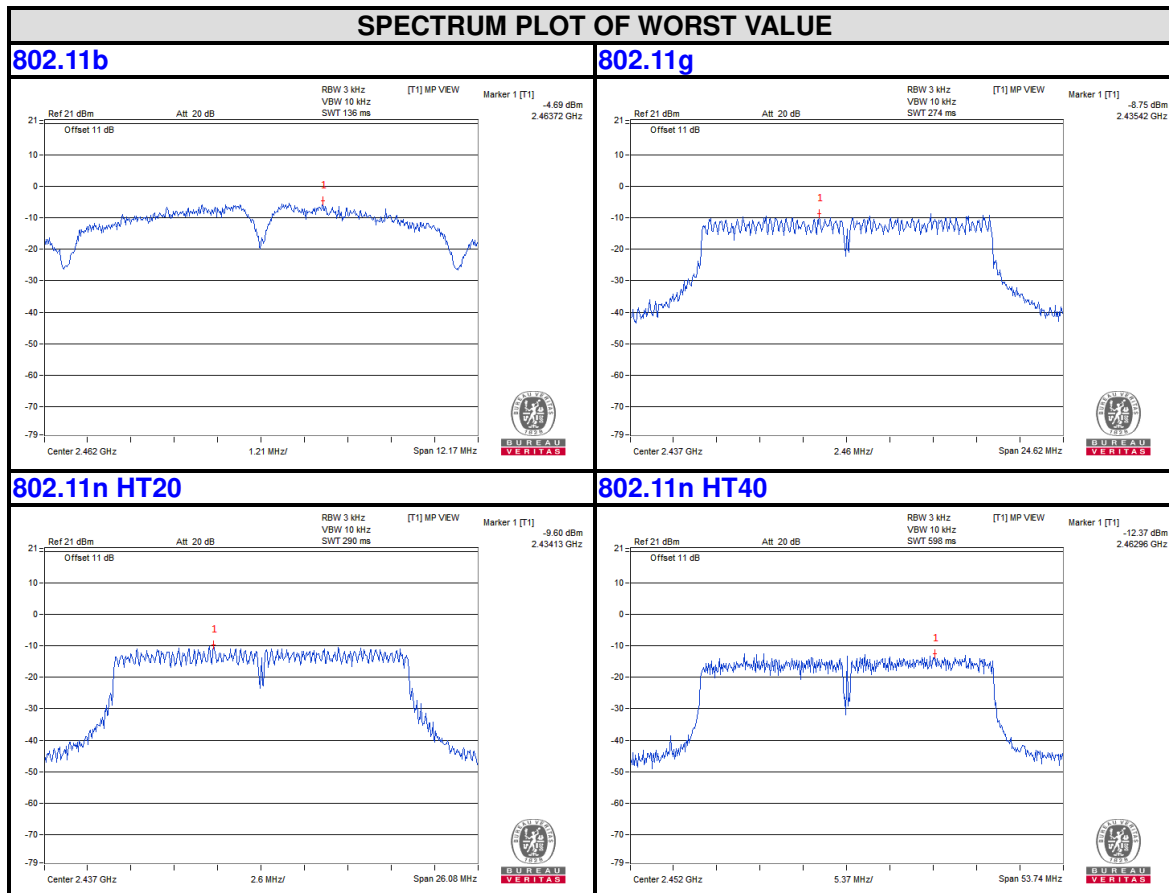
| Channel | FREQ.<br>(MHz) | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | PASS<br>/FAIL |
|---------|----------------|-------------------|---------------------|---------------|
| 1       | 2412           | -9.63             | 8.00                | PASS          |
| 6       | 2437           | -8.75             | 8.00                | PASS          |
| 11      | 2462           | -8.77             | 8.00                | PASS          |

##### 802.11n HT20

| Channel | FREQ.<br>(MHz) | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | PASS<br>/FAIL |
|---------|----------------|-------------------|---------------------|---------------|
| 1       | 2412           | -10.11            | 8.00                | PASS          |
| 6       | 2437           | -9.60             | 8.00                | PASS          |
| 11      | 2462           | -9.70             | 8.00                | PASS          |

##### 802.11n HT40

| Channel | FREQ.<br>(MHz) | PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | PASS<br>/FAIL |
|---------|----------------|-------------------|---------------------|---------------|
| 3       | 2422           | -12.92            | 8.00                | PASS          |
| 6       | 2437           | -12.50            | 8.00                | PASS          |
| 9       | 2452           | -12.37            | 8.00                | PASS          |



## 4.6 OUT OF BAND EMISSION MEASUREMENT

### 4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 TEST SETUP



### 4.6.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

### 4.6.4 TEST PROCEDURE

#### Measurement Procedure - Reference Level

1. Set the RBW = 100 kHz.
2. Set the VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

### **Measurement Procedure –Unwanted Emission Level**

1. Set RBW = 100 kHz.
2. Set VBW  $\geq$  300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

#### **4.6.5 DEVIATION FROM TEST STANDARD**

No deviation.

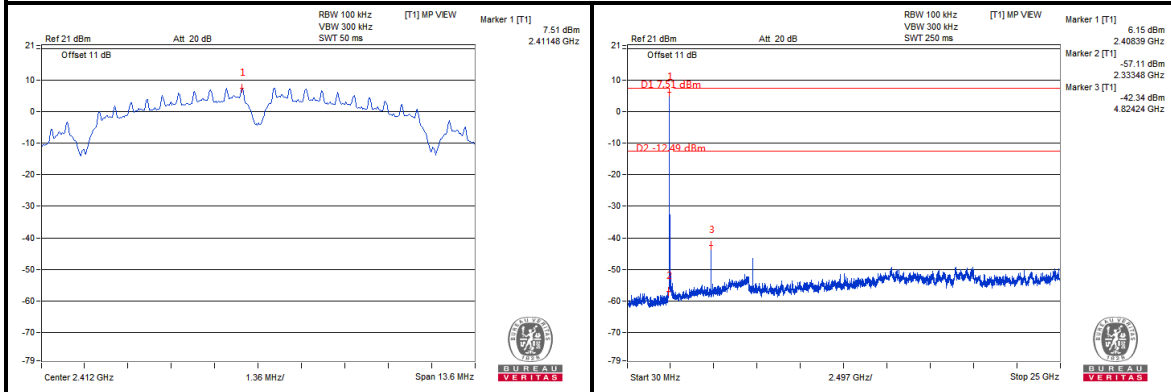
#### **4.6.6 EUT OPERATING CONDITION**

Same as item 4.3.6

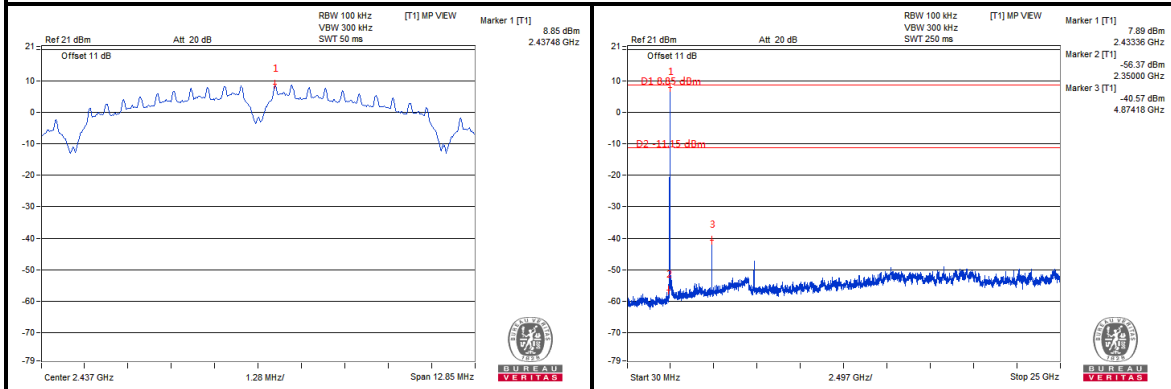
## 4.6.7 TEST RESULTS

### 802.11b

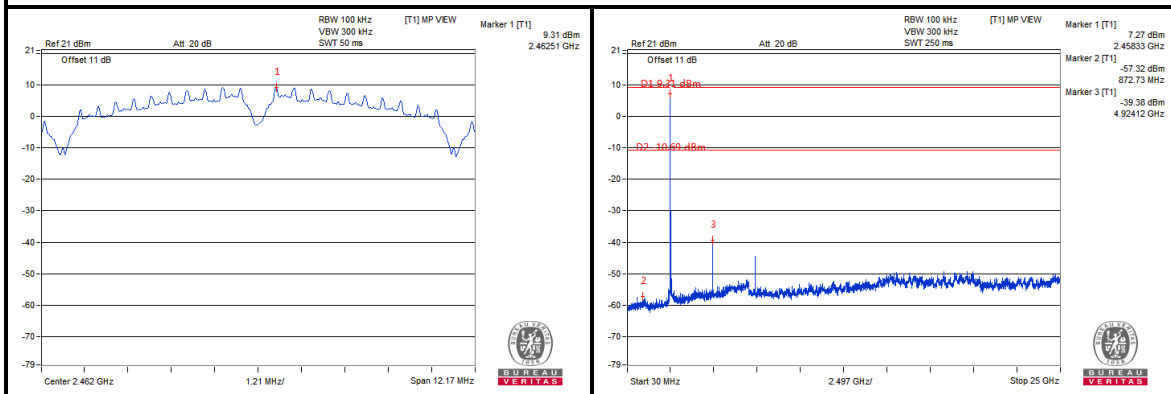
#### CH 1



#### CH 6

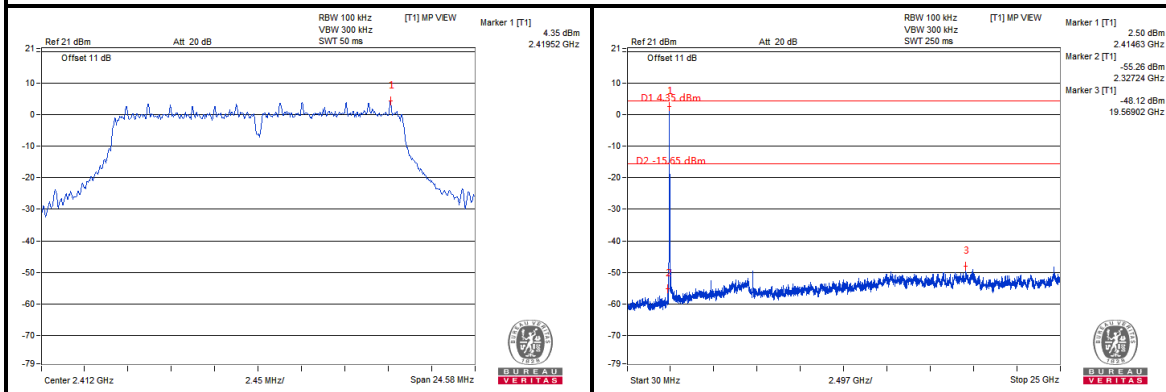


#### CH 11

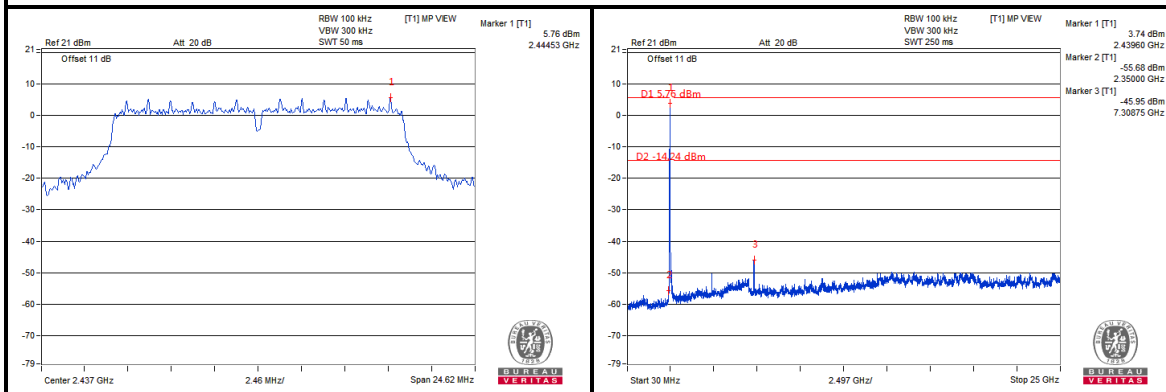


802.11g

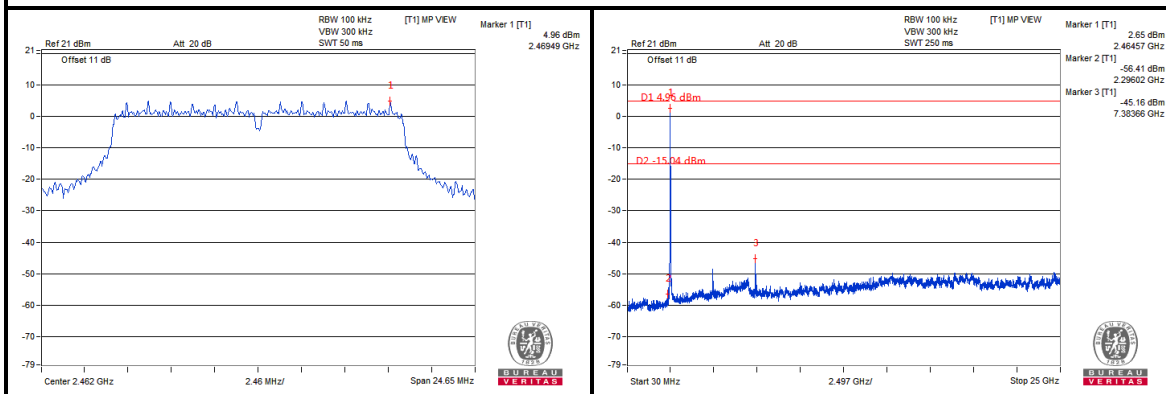
### CH 1



### CH 6

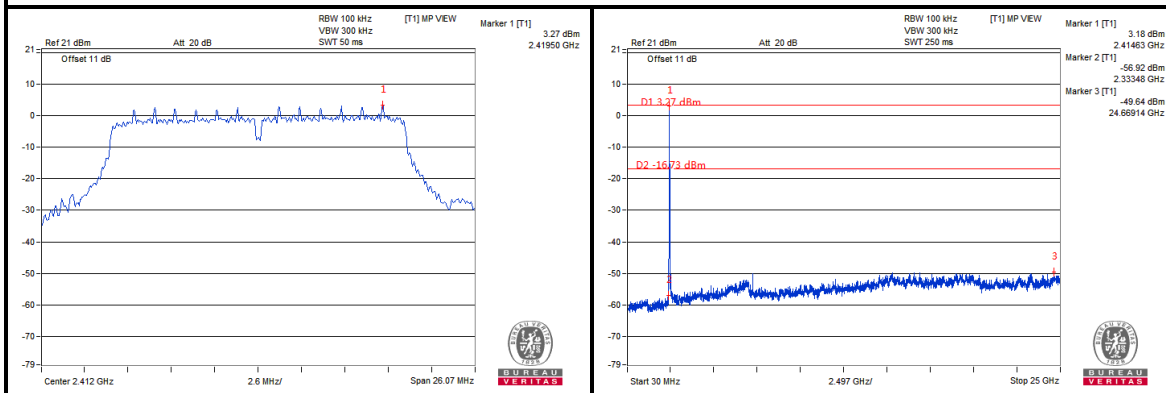


### CH 11

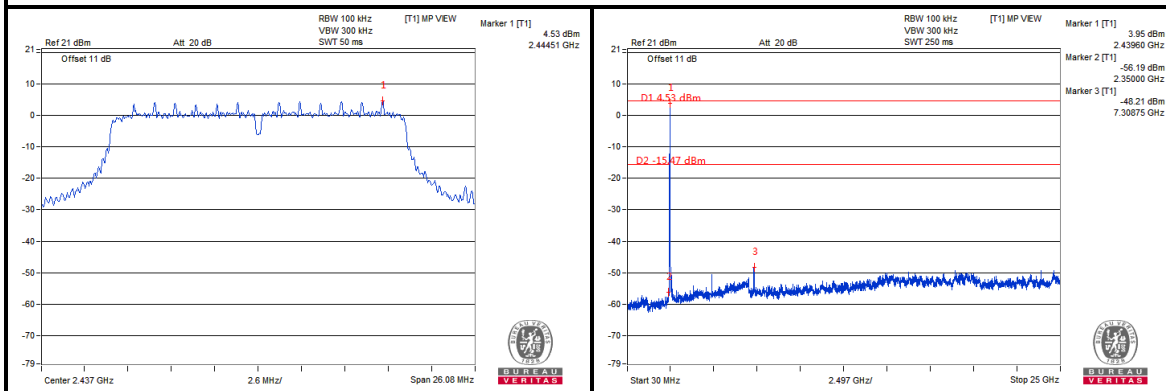


## 802.11n HT20

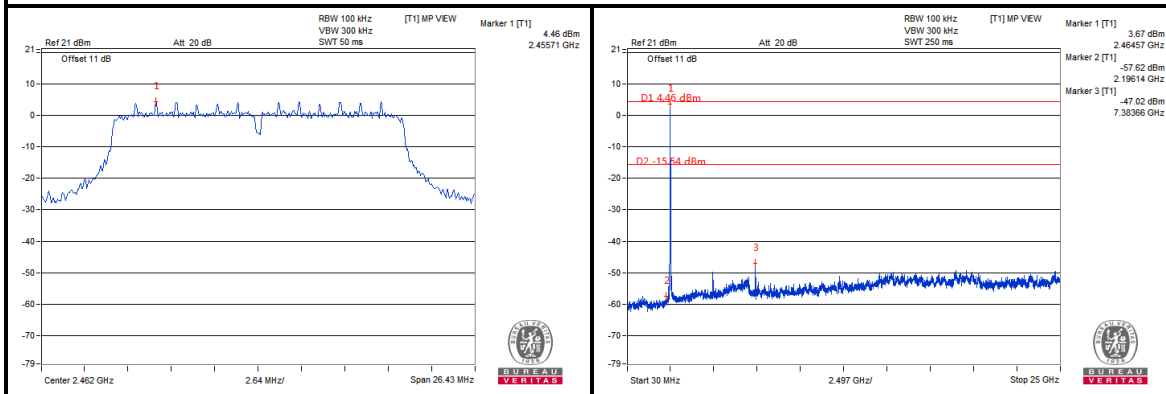
### CH 1



### CH 6

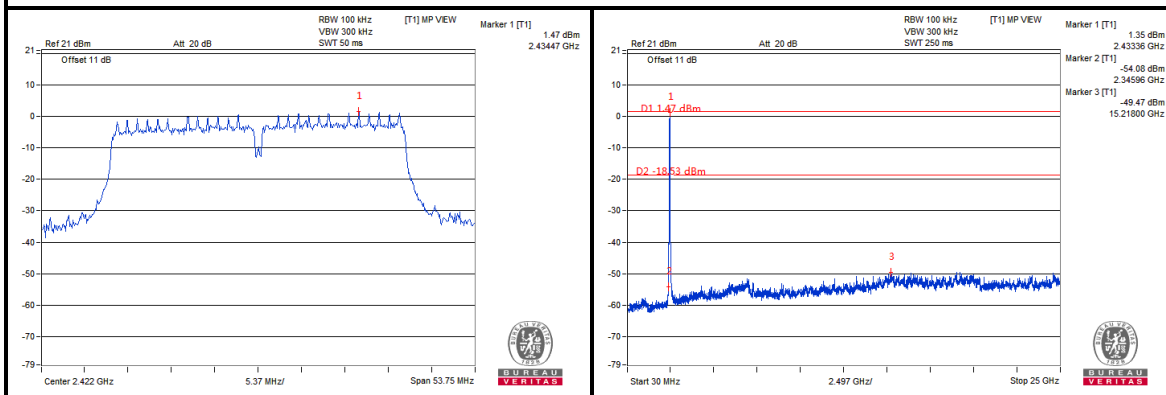


### CH 11

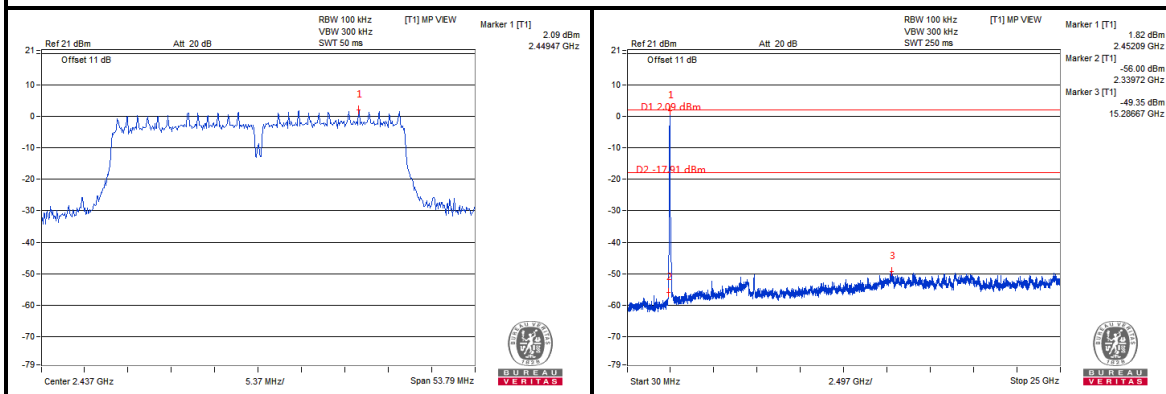


## 802.11n HT40

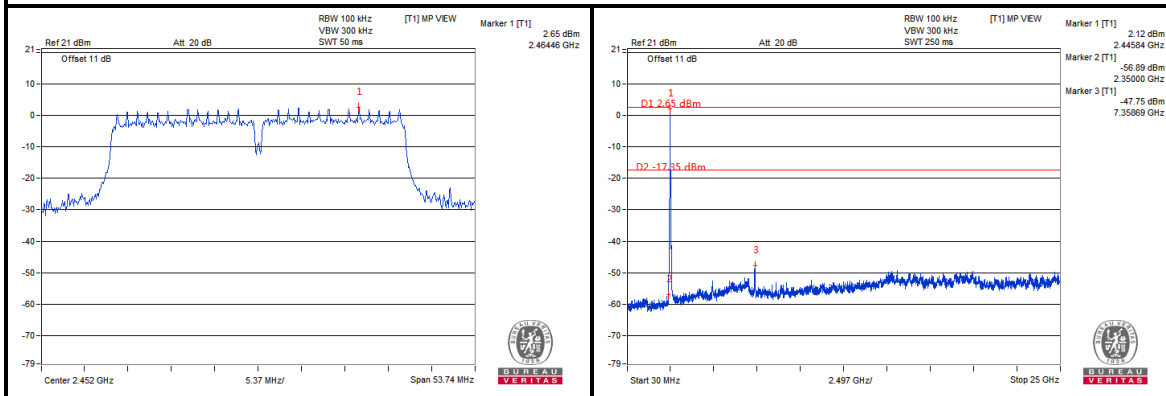
### CH 3



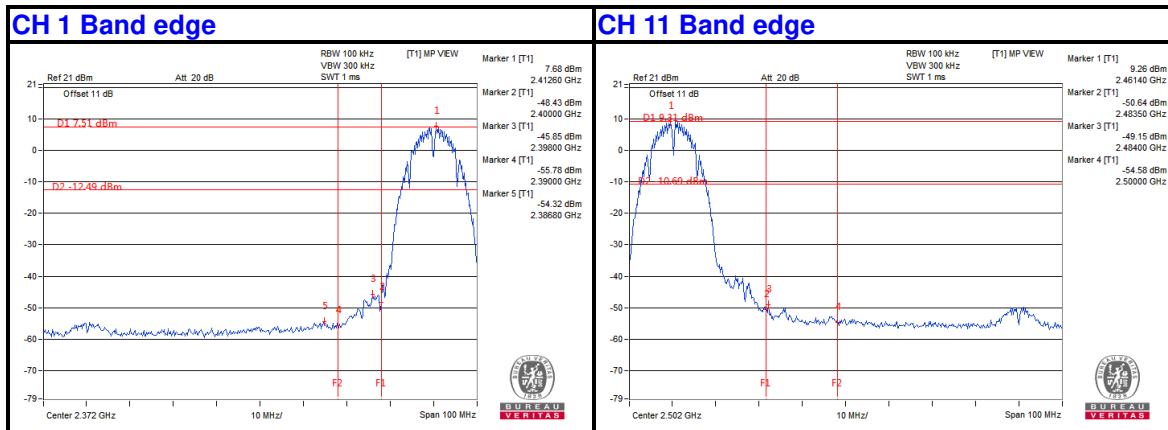
### CH 6



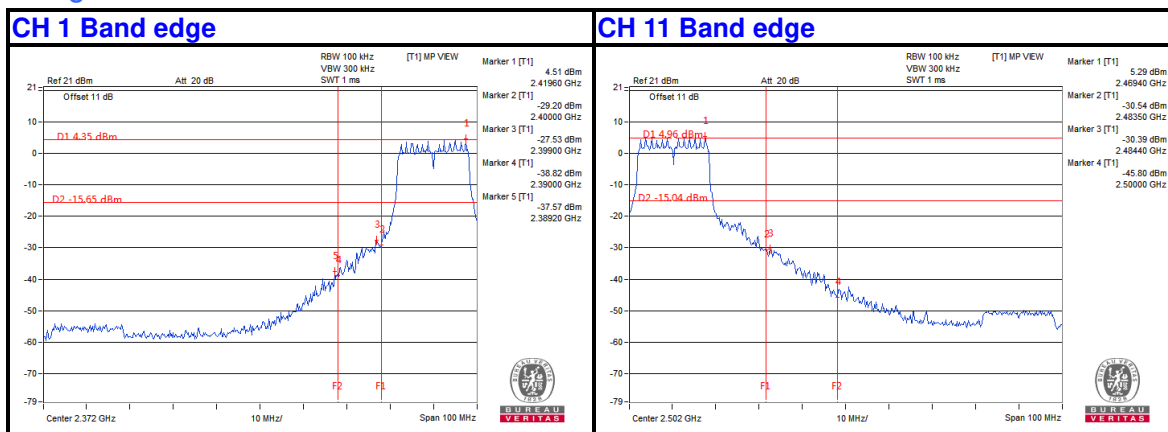
### CH 9



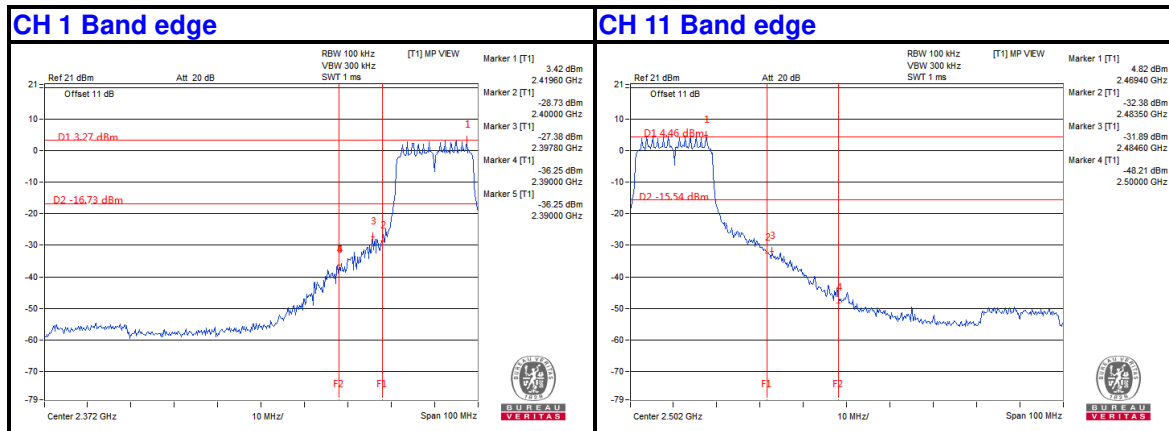
802.11b



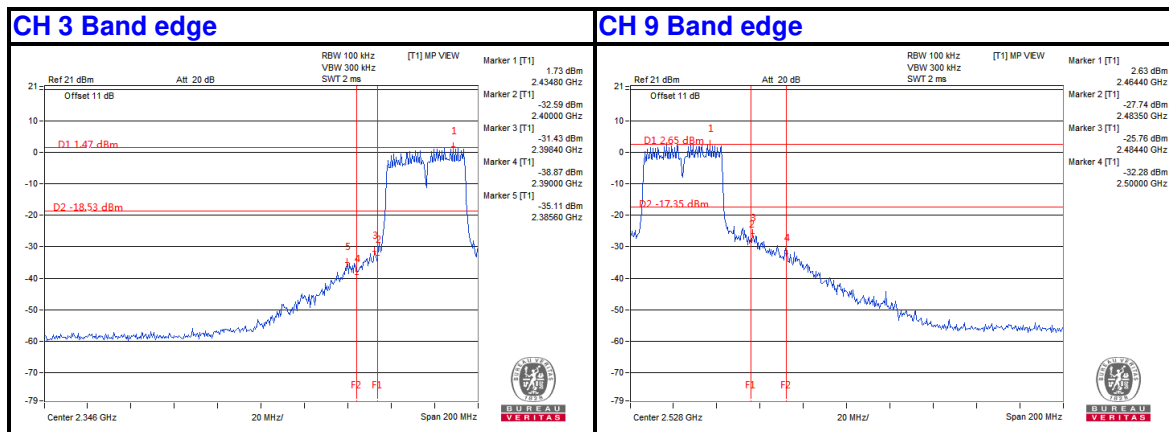
802.11g



### 802.11n HT20



### 802.11n HT40





Test Report No.: RF2008WDG0364

## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

## **6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

**---END---**