# FCC TEST REPORT

**REPORT NO.:** RF990816C20

**MODEL NO.:** WNAP320

**FCC ID:** PY310300138

**RECEIVED:** Aug. 16, 2010

**TESTED:** Sep. 07 ~ Sep. 17, 2010

**ISSUED:** Sep. 24, 2010

**APPLICANT:** NETGEAR, INC.

**ADDRESS:** 350 East Plumeria Drive San Jose, CA 95134

**ISSUED BY:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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

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

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# 1. CERTIFICATION

| | |
|---|---|
| **PRODUCT:** | 11n wireless AP |
| **MODEL:** | WNAP320 |
| **BRAND:** | NETGEAR |
| **APPLICANT:** | Delta Networks, Inc. |
| **TESTED:** | Sep. 07 ~ Sep. 17, 2010 |
| **TEST SAMPLE:** | ENGINEERING SAMPLE |
| **STANDARDS:** | **FCC Part 15, Subpart C (Section 15.247)** |
| | ANSI C63.4-2003 |

The above equipment (Model: WNAP320) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY** : Pettie Chen / Specialist , **DATE :** Sep. 24, 2010

**TECHNICAL ACCEPTANCE**
Responsible for RF : Long Chen / Senior Engineer , **DATE :** Sep. 24, 2010

**APPROVED BY** : Gary Chang / Assistant Manager , **DATE :** Sep. 24, 2010

# 2. 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. Minimum passing margin is -1.63dB at 23.129MHz. |
| 15.247(a)(2) | Spectrum Bandwidth of a Direct Sequence Spread Spectrum System<br>Limit: min. 500kHz | PASS | Meet the requirement of limit. |
| 15.247(b) | Maximum Output Power<br>Limit: max. 30dBm | PASS | Meet the requirement of limit. |
| 15.247(d) | Radiated Emissions<br>Limit: Table 15.209 | PASS | Meet the requirement of limit. Minimum passing margin is -1.2dB at 2488.0MHz. |
| 15.247(e) | Power Spectral Density<br>Limit: max. 8dBm | PASS | Meet the requirement of limit. |
| 15.247(d) | Band Edge Measurement<br>Limit: 20dB less than the peak value of fundamental frequency | PASS | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | PASS | Internal Antenna: Antenna connector is UFL not a standard connector.<br>External Antenna: Antenna connector is R-SMA not a standard connector. |

## 2.1 MEASUREMENT UNCERTAINTY

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

| MEASUREMENT | FREQUENCY | UNCERTAINTY |
|---|---|---|
| Conducted emissions | 150kHz~30MHz | 2.44 dB |
| Radiated emissions | 30MHz ~ 200MHz | 2.93 dB |
| | 200MHz ~1000MHz | 2.95 dB |
| | 1GHz ~ 18GHz | 2.26 dB |
| | 18GHz ~ 40GHz | 1.94 dB |

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

| | |
|---|---|
| **EUT** | 11n wireless AP |
| **MODEL NO.** | WNAP320 |
| **FCC ID** | PY310300138 |
| **POWER SUPPLY** | 12Vdc from adapter<br>48Vdc from POE |
| **MODULATION TYPE** | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM |
| **MODULATION TECHNOLOGY** | DSSS, OFDM |
| **TRANSFER RATE** | 802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps<br>802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps<br>802.11n: up to 300.0Mbps |
| **OPERATING FREQUENCY** | 2412 ~ 2462MHz |
| **NUMBER OF CHANNEL** | 11 for 802.11b, 802.11g, 802.11n (20MHz)<br>7 for 802.11n (40MHz) |
| **OUTPUT POWER** | 374.2mW |
| **ANTENNA TYPE** | Refer to NOTE 3 as below |
| **ANTENNA CONNECTOR** | Refer to NOTE 3 as below |
| **DATA CABLE** | NA |
| **I/O PORTS** | RJ45 |
| **ACCESSORY DEVICES** | Adapter |

**NOTE:**

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

| MODULATION MODE | TX FUNCTION |
|---|---|
| **802.11b** | 2TX |
| **802.11g** | 2TX |
| **802.11n (20MHz)** | 2TX |
| **802.11n (40MHz)** | 2TX |

2. The EUT were powered by the following adapters:

| **ADAPTER 1** | |
|---|---|
| **BRAND:** | NETGEAR |
| **MODEL:** | T012LF1209 16100-2LF |
| **P/N:** | 332-10166-01 |
| **INPUT:** | 100-120Vac, ~50/60Hz, 0.5A |
| **OUTPUT:** | 12Vdc, 1A |
| **POWER LINE:** | 1.8m non-shielded cable without core |

| ADAPTER 2 | |
|---|---|
| **BRAND:** | NETGEAR |
| **MODEL:** | MT12-Y120100-A1 |
| **P/N:** | 332-10190-01 |
| **INPUT:** | 100-120Vac, ~60Hz 0.3A |
| **OUTPUT:** | 12Vdc, 1.0A |
| **POWER LINE:** | 1.8m non-shielded cable without core |

3. There are two antennas provided to this EUT. The information about those antennas as below table:

| No. | Antenna Type | Gain (dBi) | Antenna Connector |
|---|---|---|---|
| 1. Internal | monopole | 5.59 | UFL |
| 2. External | Omni | 5.00 | R-SMA |

* External antenna is for option.

4. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

## 3.2 DESCRIPTION OF TEST MODES

11 channels are provided for 802.11b, 802.11g and 802.11n (20MHz):

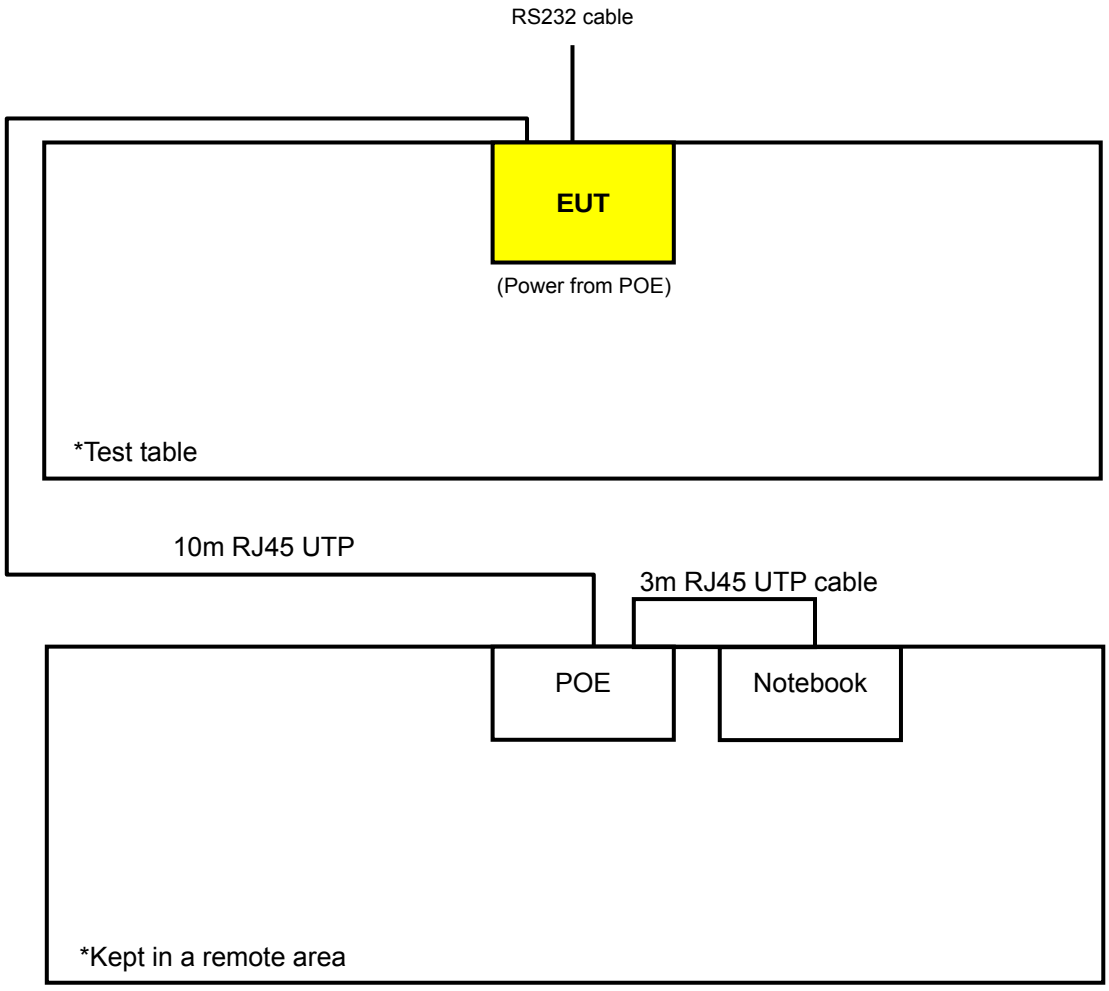
| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---|---|---|---|
| 1 | 2412MHz | 7 | 2442MHz |
| 2 | 2417MHz | 8 | 2447MHz |
| 3 | 2422MHz | 9 | 2452MHz |
| 4 | 2427MHz | 10 | 2457MHz |
| 5 | 2432MHz | 11 | 2462MHz |
| 6 | 2437MHz | | |

7 channels are provided for 802.11n (40MHz):

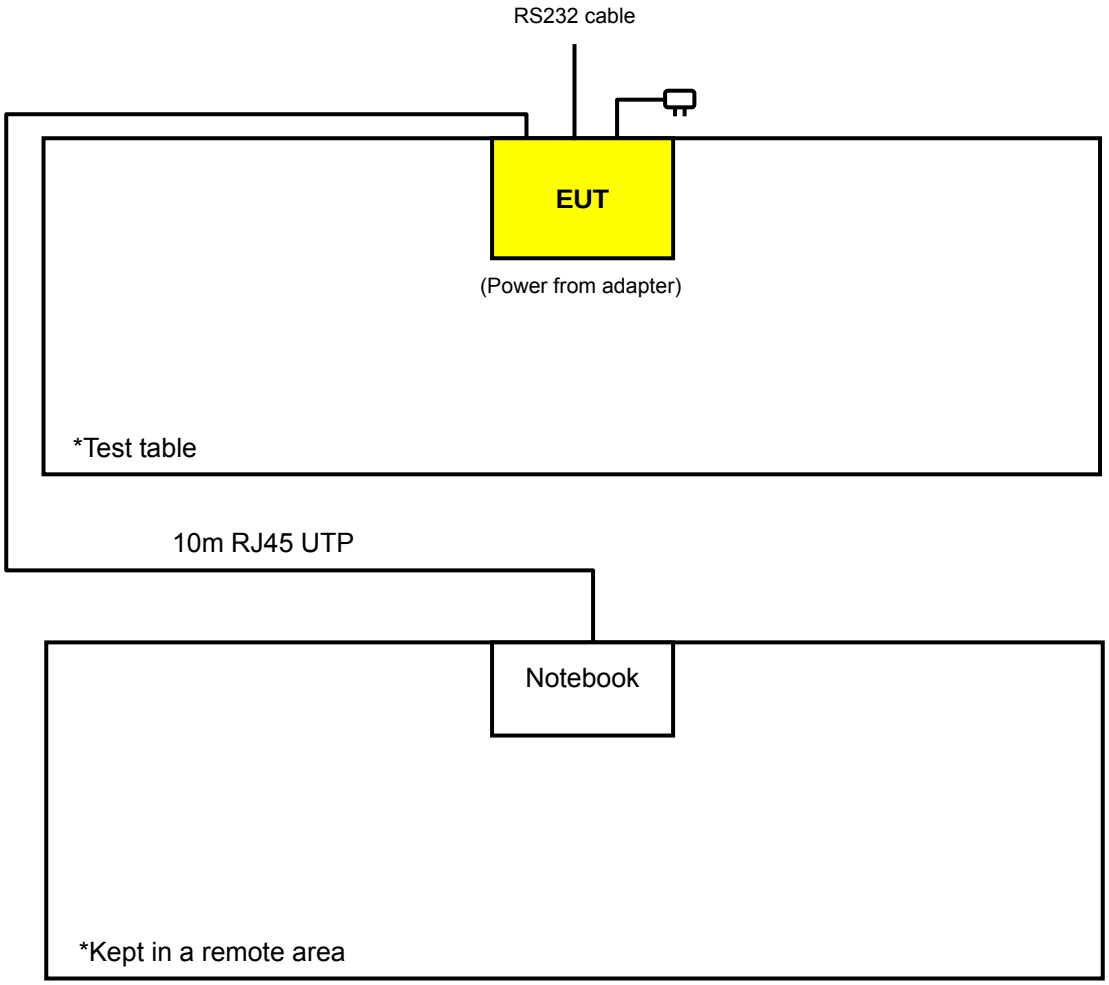
| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---|---|---|---|
| 1 | 2422MHz | 5 | 2442MHz |
| 2 | 2427MHz | 6 | 2447MHz |
| 3 | 2432MHz | 7 | 2452MHz |
| 4 | 2437MHz | | |

### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

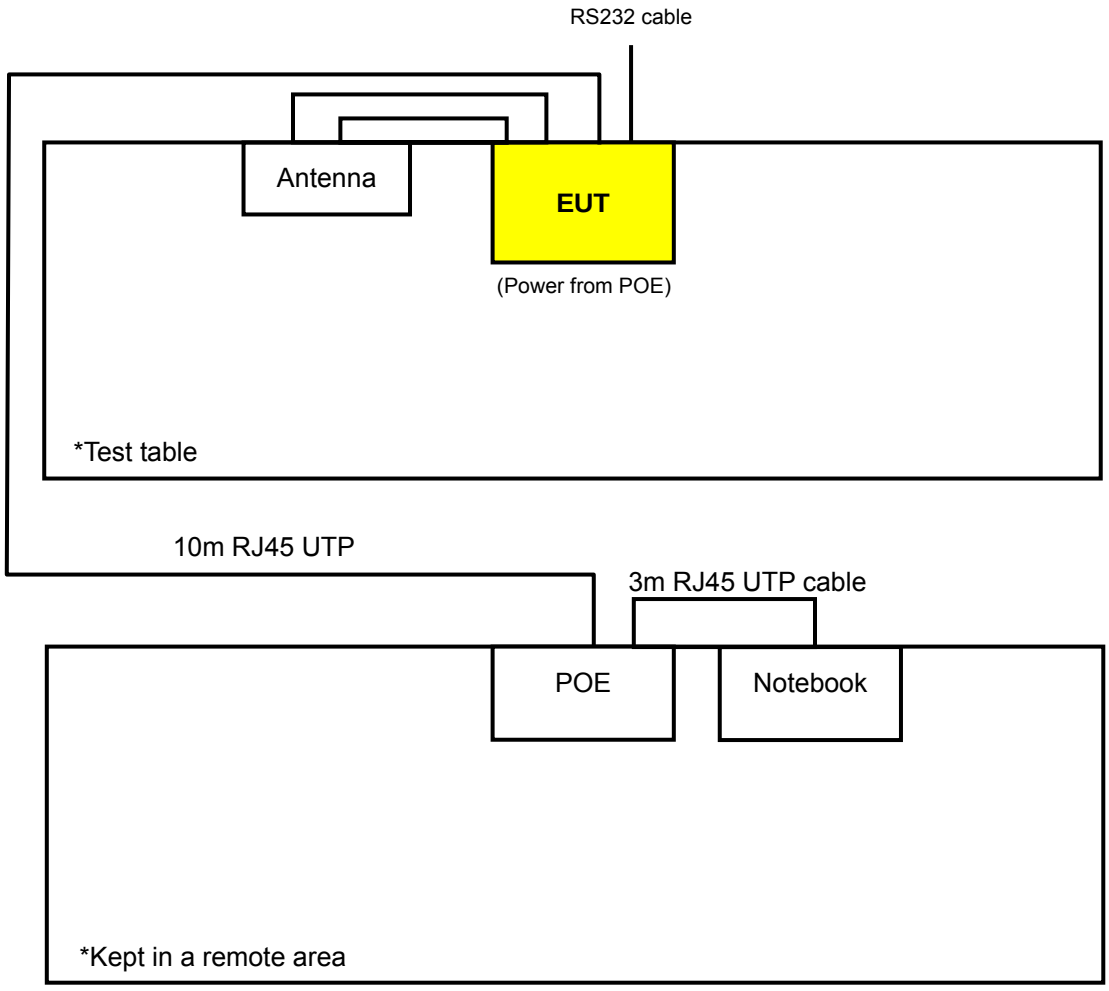
**Test Mode A1**



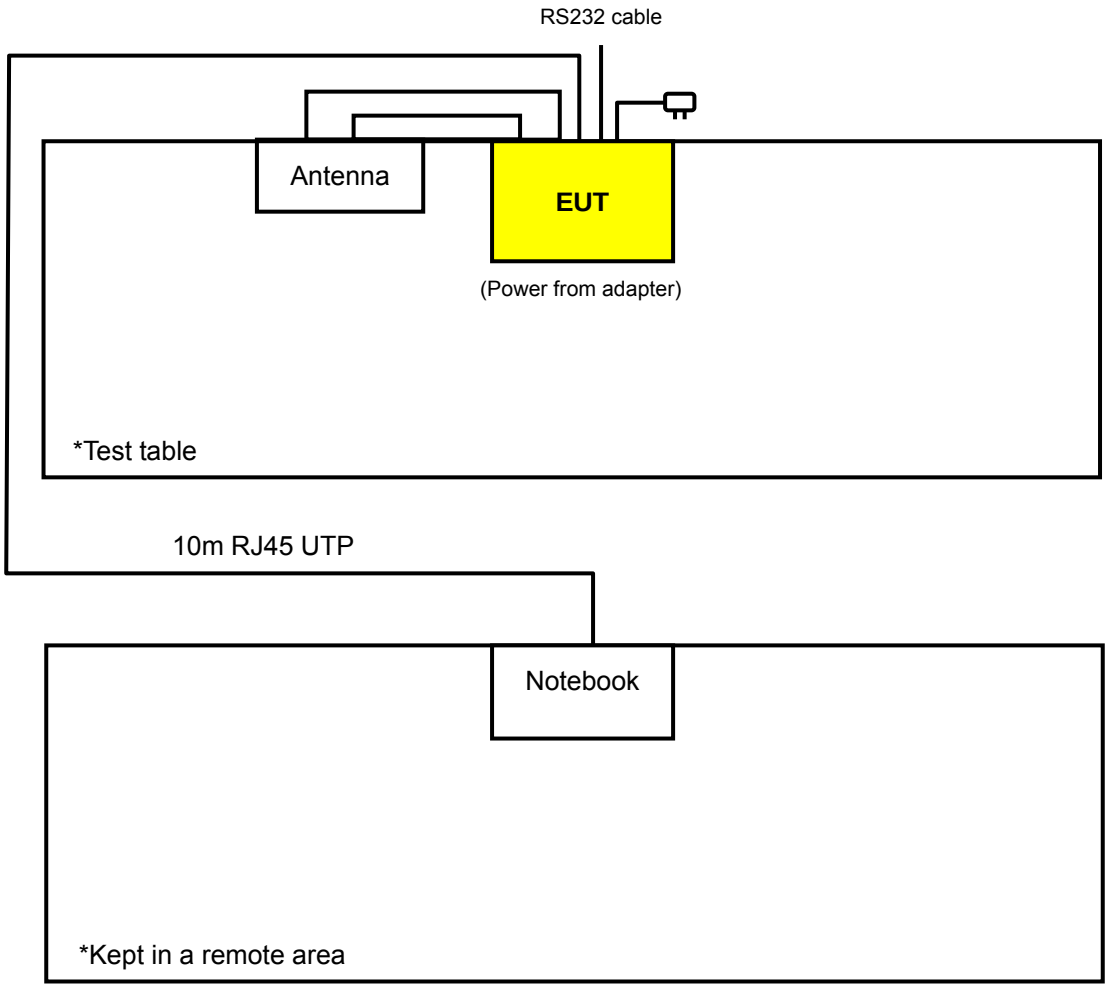
## Test Mode A2, A3



## Test Mode B1


RS232 cable
Antenna
EUT
(Power from POE)
*Test table
10m RJ45 UTP
3m RJ45 UTP cable
POE
Notebook
*Kept in a remote area

## Test Mode B2, B3



## 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE MODE | APPLICABLE TO | | | | DESCRIPTION | |
|---|---|---|---|---|---|---|
| | RE≥1G | RE<1G | PLC | APCM | ANTENNA | POWER SUPPLY |
| A1 | √ | √ | √ | √ | Internal | POE |
| A2 | - | √ | √ | - | | Adapter 1: T012LF1209 16100-2LF |
| A3 | - | √ | √ | - | | Adapter 2: MT12-Y120100-A1 |
| B1 | √ | √ | √ | - | External | POE |
| B2 | - | √ | √ | - | | Adapter 1: T012LF1209 16100-2LF |
| B3 | - | √ | √ | - | | Adapter 2: MT12-Y120100-A1 |

Where **RE≥1G:** Radiated Emission above 1GHz **RE<1G:** Radiated Emission below 1GHz
**PLC:** Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement
**NOTE:** "-" means no effect.

**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) | AXIS |
|---|---|---|---|---|---|---|---|
| A1, B1 | 802.11b | 1 to 11 | 1, 6, 11 | DSSS | DBPSK | 1.0 | X |
| A1, B1 | 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6.0 | X |
| A1, B1 | 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 7.2 | X |
| A1, B1 | 802.11n (40MHz) | 1 to 7 | 1, 4, 7 | OFDM | BPSK | 15.0 | X |

**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 CONFIGURE MODE | MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) | AXIS |
|---|---|---|---|---|---|---|---|
| A1, A2, A3, B1, B2, B3 | 802.11b | 1 to 11 | 6 | DSSS | DBPSK | 1.0 | X |

## 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 | MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|---|---|---|---|---|---|---|
| A1, A2, A3, B1, B2, B3 | 802.11b | 1 to 11 | 6 | DSSS | DBPSK | 1.0 |

## BANDEDGE MEASUREMENT:

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

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

| EUT CONFIGURE MODE | MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|---|---|---|---|---|---|---|
| A1, B1 | 802.11b | 1 to 11 | 1, 11 | DSSS | DBPSK | 1.0 |
| A1, B1 | 802.11g | 1 to 11 | 1, 11 | OFDM | BPSK | 6.0 |
| A1, B1 | 802.11n (20MHz) | 1 to 11 | 1, 11 | OFDM | BPSK | 7.2 |
| A1, B1 | 802.11n (40MHz) | 1 to 7 | 1, 7 | OFDM | BPSK | 15.0 |

## 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) |
|---|---|---|---|---|---|---|
| A1 | 802.11b | 1 to 11 | 1, 6, 11 | DSSS | DBPSK | 1.0 |
| A1 | 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6.0 |
| A1 | 802.11n (20MHz) | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 7.2 |
| A1 | 802.11n (40MHz) | 1 to 7 | 1, 4, 7 | OFDM | BPSK | 15.0 |

**TEST CONDITION:**

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|---|---|---|---|
| RE≥1G | 25deg. C, 65%RH, 1006 hPa | 120Vac, 60Hz | Match Tsui |
| RE<1G | 25deg. C, 65%RH, 1006 hPa | 120Vac, 60Hz | Long Chen |
| PLC | 23deg. C, 65%RH, 1005 hPa | 120Vac, 60Hz | Sun Lin |
| APCM | 25deg. C, 65%RH, 1003 hPa | 120Vac, 60Hz | Match Tsui |

## 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

**FCC Part 15, Subpart C (15.247)**
**ANSI C63.4-2003**

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

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

## 3.4 DESCRIPTION OF SUPPORT UNITS

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

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|---|---|---|---|---|---|
| 1 | NOTEBOOK | DELL | D600 | CN-OY4803-486 43-42G-5415 | QDS-BRCM1005-D |
| 2 | POE | CISCO | DPSN-35FBA | NA | NA |

| NO. | SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS |
|---|---|
| 1 | 3m RJ45 UTP cable. (for test mode A1, B1)<br>10m RJ45 UTP cable. (for test mode A2, A3, B2, B3) |
| 2 | 10m RJ45 UTP cable. |

**NOTE:**
1. All power cords of the above support units are non-shielded (1.8m).
2. Item 1, 2 acted communication partner to transfer data.
3. Item 2 was provided by client.

# 4. TEST TYPES AND RESULTS

## 4.1 RADIATED EMISSION MEASUREMENT

### 4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

**NOTE**:

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

## 4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| Test Receiver ROHDE & SCHWARZ | ESI7 | 838496/016 | Dec. 29, 2009 | Dec. 28, 2010 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100039 | Jan. 11, 2010 | Jan. 10, 2011 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-155 | Apr. 28, 2010 | Apr. 27, 2011 |
| HORN Antenna SCHWARZBECK | BBHA 9120D | 9120D-408 | Jan. 05, 2010 | Jan. 04, 2011 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170242 | Dec. 25, 2009 | Dec. 24, 2010 |
| Preamplifier Agilent | 8449B | 3008A01961 | Nov. 04, 2009 | Nov. 03, 2010 |
| Preamplifier Agilent | 8447D | 2944A10738 | Nov. 04, 2009 | Nov. 03, 2010 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 274041/4 | Aug. 21, 2010 | Aug. 20, 2011 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 283397/4 | Aug. 21, 2010 | Aug. 20, 2011 |
| Software ADT. | ADT_Radiated_ V7.6.15.9.2 | NA | NA | NA |
| Antenna Tower inn-co GmbH | MA 4000 | 010303 | NA | NA |
| Antenna Tower Controller inn-co GmbH | CO2000 | 019303 | NA | NA |
| Turn Table ADT. | TT100. | TT93021704 | NA | NA |
| Turn Table Controller ADT. | SC100. | SC93021704 | NA | NA |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 4.

3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.

4. The FCC Site Registration No. is 988962.

5. The IC Site Registration No. is IC7450F-4.

### 4.1.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

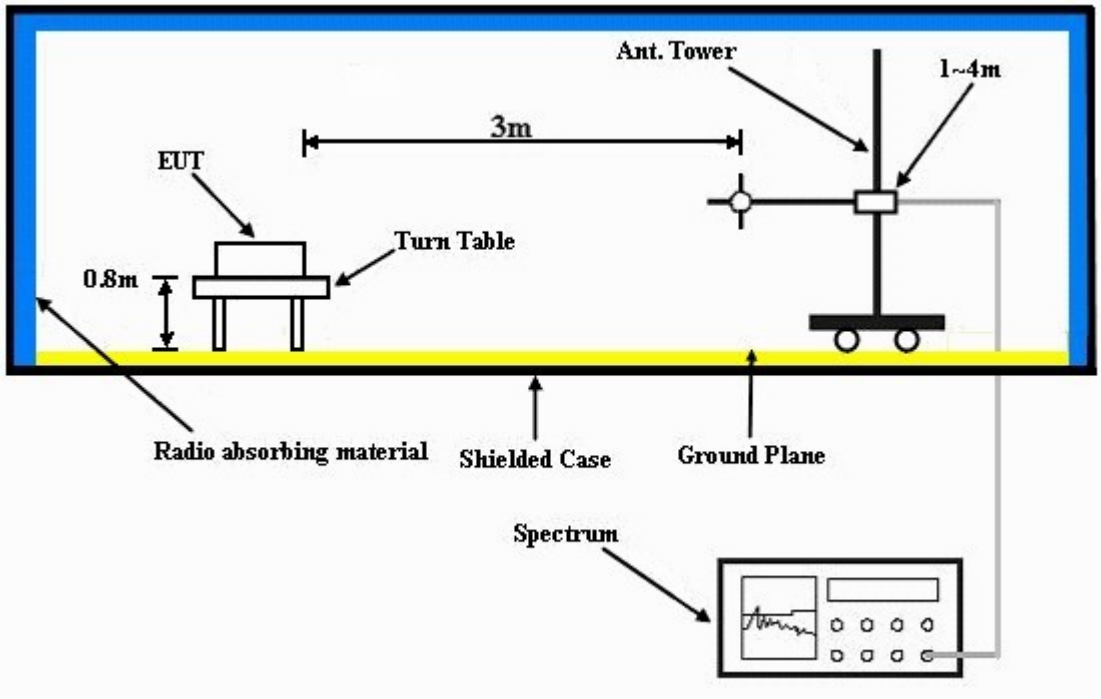
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for 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 10Hz for Average detection (AV) at frequency above 1GHz.
4. 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




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

## 4.1.6 EUT OPERATING CONDITIONS

a. Placed the EUT on the testing table.
b. Prepared notebook system outside of testing area to act as a communication partner.
c. The communication partner connected with EUT via a RJ45 cable and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
d. The communication partner sent data to EUT by command "PING".

## 4.1.7 TEST RESULTS

**802.11b**

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| **CHANNEL** | Channel 1 | **FREQUENCY RANGE** | 1 ~ 25GHz |
| **INPUT POWER (SYSTEM)** | 120Vac, 60Hz | **DETECTOR FUNCTION** | Peak (PK)<br>Average (AV) |
| **ENVIRONMENTAL CONDITIONS** | 25deg. C, 65%RH<br>1000 hPa | **TESTED BY** | Match Tsui |
| **TEST MODE** | **A1** | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **NO.** | **FREQ. (MHz)** | **EMISSION LEVEL (dBuV/m)** | **LIMIT (dBuV/m)** | **MARGIN (dB)** | **ANTENNA HEIGHT (m)** | **TABLE ANGLE (Degree)** | **RAW VALUE (dBuV)** | **CORRECTION FACTOR (dB/m)** |
| 1 | 2386.00 | 55.3 PK | 74.0 | -18.7 | 1.27 H | 64 | 22.80 | 32.50 |
| 2 | 2386.00 | 45.5 AV | 54.0 | -8.5 | 1.27 H | 64 | 13.00 | 32.50 |
| 3 | *2412.00 | 101.2 PK | | | 1.27 H | 64 | 68.60 | 32.60 |
| 4 | *2412.00 | 97.6 AV | | | 1.27 H | 64 | 65.00 | 32.60 |
| 5 | 4824.00 | 45.1 PK | 74.0 | -28.9 | 1.11 H | 49 | 6.40 | 38.70 |
| 6 | 4824.00 | 33.5 AV | 54.0 | -20.5 | 1.11 H | 49 | -5.20 | 38.70 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| **NO.** | **FREQ. (MHz)** | **EMISSION LEVEL (dBuV/m)** | **LIMIT (dBuV/m)** | **MARGIN (dB)** | **ANTENNA HEIGHT (m)** | **TABLE ANGLE (Degree)** | **RAW VALUE (dBuV)** | **CORRECTION FACTOR (dB/m)** |
| 1 | 2386.00 | 57.7 PK | 74.0 | -16.3 | 1.22 V | 201 | 25.20 | 32.50 |
| 2 | 2386.00 | 47.4 AV | 54.0 | -6.6 | 1.22 V | 201 | 14.90 | 32.50 |
| 3 | *2412.00 | 103.9 PK | | | 1.20 V | 198 | 71.30 | 32.60 |
| 4 | *2412.00 | 100.4 AV | | | 1.20 V | 198 | 67.80 | 32.60 |
| 5 | 4824.00 | 46.5 PK | 74.0 | -27.5 | 1.00 V | 188 | 7.80 | 38.70 |
| 6 | 4824.00 | 36.7 AV | 54.0 | -17.3 | 1.00 V | 188 | -2.00 | 38.70 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2389.00 | 56.6 PK | 74.0 | -17.4 | 1.02 H | 31 | 24.10 | 32.50 |
| 2 | 2389.00 | 46.0 AV | 54.0 | -8.0 | 1.02 H | 31 | 13.50 | 32.50 |
| 3 | *2437.00 | 110.2 PK | | | 1.28 H | 44 | 77.60 | 32.60 |
| 4 | *2437.00 | 106.6 AV | | | 1.28 H | 44 | 74.00 | 32.60 |
| 5 | 2484.70 | 59.2 PK | 74.0 | -14.8 | 1.28 H | 51 | 26.40 | 32.80 |
| 6 | 2484.70 | 49.1 AV | 54.0 | -4.9 | 1.28 H | 51 | 16.30 | 32.80 |
| 7 | 4874.00 | 48.8 PK | 74.0 | -25.2 | 1.22 H | 244 | 10.00 | 38.80 |
| 8 | 4874.00 | 42.0 AV | 54.0 | -12.0 | 1.22 H | 244 | 3.20 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 57.0 PK | 74.0 | -17.0 | 1.10 V | 36 | 24.50 | 32.50 |
| 2 | 2390.00 | 46.4 AV | 54.0 | -7.6 | 1.10 V | 36 | 13.90 | 32.50 |
| 3 | *2437.00 | 111.4 PK | | | 1.12 V | 43 | 78.80 | 32.60 |
| 4 | *2437.00 | 107.1 AV | | | 1.12 V | 43 | 74.50 | 32.60 |
| 5 | 2484.70 | 61.1 PK | 74.0 | -12.9 | 1.10 V | 44 | 28.30 | 32.80 |
| 6 | 2484.70 | 51.1 AV | 54.0 | -2.9 | 1.10 V | 44 | 18.30 | 32.80 |
| 7 | 4874.00 | 51.9 PK | 74.0 | -22.1 | 1.19 V | 287 | 13.10 | 38.80 |
| 8 | 4874.00 | 47.6 AV | 54.0 | -6.4 | 1.19 V | 287 | 8.80 | 38.80 |

**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 other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 102.6 PK | | | 1.30 H | 80 | 69.90 | 32.70 |
| 2 | *2462.00 | 98.9 AV | | | 1.30 H | 80 | 66.20 | 32.70 |
| 3 | 2488.00 | 56.1 PK | 74.0 | -17.9 | 1.30 H | 80 | 23.30 | 32.80 |
| 4 | 2488.00 | 46.4 AV | 54.0 | -7.6 | 1.30 H | 80 | 13.60 | 32.80 |
| 5 | 4924.00 | 45.2 PK | 74.0 | -28.8 | 1.07 H | 51 | 6.30 | 38.90 |
| 6 | 4924.00 | 33.6 AV | 54.0 | -20.4 | 1.07 H | 51 | -5.30 | 38.90 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 104.3 PK | | | 1.44 V | 206 | 71.60 | 32.70 |
| 2 | *2462.00 | 100.6 AV | | | 1.44 V | 206 | 67.90 | 32.70 |
| 3 | 2488.00 | 58.4 PK | 74.0 | -15.6 | 1.15 V | 203 | 25.60 | 32.80 |
| 4 | 2488.00 | 48.8 AV | 54.0 | -5.2 | 1.15 V | 203 | 16.00 | 32.80 |
| 5 | 4924.00 | 46.6 PK | 74.0 | -27.4 | 1.00 V | 190 | 7.70 | 38.90 |
| 6 | 4924.00 | 36.8 AV | 54.0 | -17.2 | 1.00 V | 190 | -2.10 | 38.90 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2386.00 | 56.5 PK | 74.0 | -17.5 | 1.10 H | 140 | 24.00 | 32.50 |
| 2 | 2386.00 | 44.5 AV | 54.0 | -9.5 | 1.10 H | 140 | 12.00 | 32.50 |
| 3 | *2412.00 | 96.2 PK | | | 1.10 H | 140 | 63.60 | 32.60 |
| 4 | *2412.00 | 92.7 AV | | | 1.10 H | 140 | 60.10 | 32.60 |
| 5 | 4824.00 | 45.8 PK | 74.0 | -28.2 | 1.18 H | 1 | 7.10 | 38.70 |
| 6 | 4824.00 | 32.9 AV | 54.0 | -21.1 | 1.18 H | 1 | -5.80 | 38.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2386.00 | 59.4 PK | 74.0 | -14.6 | 1.12 V | 208 | 26.90 | 32.50 |
| 2 | 2386.00 | 48.6 AV | 54.0 | -5.4 | 1.12 V | 208 | 16.10 | 32.50 |
| 3 | *2412.00 | 107.9 PK | | | 1.11 V | 191 | 75.30 | 32.60 |
| 4 | *2412.00 | 104.4 AV | | | 1.11 V | 191 | 71.80 | 32.60 |
| 5 | 4824.00 | 46.1 PK | 74.0 | -27.9 | 1.00 V | 291 | 7.40 | 38.70 |
| 6 | 4824.00 | 33.9 AV | 54.0 | -20.1 | 1.00 V | 291 | -4.80 | 38.70 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 54.6 PK | 74.0 | -19.4 | 1.26 H | 210 | 22.10 | 32.50 |
| 2 | 2390.00 | 44.5 AV | 54.0 | -9.5 | 1.26 H | 210 | 12.00 | 32.50 |
| 3 | *2437.00 | 103.3 PK | | | 1.26 H | 210 | 70.70 | 32.60 |
| 4 | *2437.00 | 99.7 AV | | | 1.26 H | 210 | 67.10 | 32.60 |
| 5 | 2483.50 | 57.7 PK | 74.0 | -16.3 | 1.26 H | 0 | 24.90 | 32.80 |
| 6 | 2483.50 | 45.0 AV | 54.0 | -9.0 | 1.26 H | 0 | 12.20 | 32.80 |
| 7 | 4874.00 | 49.0 PK | 74.0 | -25.0 | 1.58 H | 159 | 10.20 | 38.80 |
| 8 | 4874.00 | 41.6 AV | 54.0 | -12.4 | 1.58 H | 159 | 2.80 | 38.80 |
| 9 | 7311.00 | 50.7 PK | 74.0 | -23.3 | 1.09 H | 264 | 5.60 | 45.10 |
| 10 | 7311.00 | 38.8 AV | 54.0 | -15.2 | 1.09 H | 264 | -6.30 | 45.10 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2389.00 | 58.3 PK | 74.0 | -15.7 | 1.09 V | 206 | 25.80 | 32.50 |
| 2 | 2389.00 | 47.2 AV | 54.0 | -6.8 | 1.09 V | 206 | 14.70 | 32.50 |
| 3 | *2437.00 | 115.3 PK | | | 1.08 V | 311 | 82.70 | 32.60 |
| 4 | *2437.00 | 111.2 AV | | | 1.08 V | 311 | 78.60 | 32.60 |
| 5 | 2484.70 | 60.7 PK | 74.0 | -13.3 | 1.05 V | 133 | 27.90 | 32.80 |
| 6 | 2484.70 | 52.6 AV | 54.0 | -1.4 | 1.05 V | 133 | 19.80 | 32.80 |
| 7 | 4874.00 | 53.8 PK | 74.0 | -20.2 | 1.00 V | 136 | 15.00 | 38.80 |
| 8 | 4874.00 | 50.9 AV | 54.0 | -3.1 | 1.00 V | 136 | 12.10 | 38.80 |
| 9 | 7311.00 | 51.7 PK | 74.0 | -22.3 | 1.48 V | 182 | 6.60 | 45.10 |
| 10 | 7311.00 | 40.9 AV | 54.0 | -13.1 | 1.48 V | 182 | -4.20 | 45.10 |

**REMARKS:** 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 95.8 PK | | | 1.12 H | 134 | 63.10 | 32.70 |
| 2 | *2462.00 | 92.1 AV | | | 1.12 H | 134 | 59.40 | 32.70 |
| 3 | 2483.50 | 54.9 PK | 74.0 | -19.1 | 1.12 H | 134 | 22.10 | 32.80 |
| 4 | 2483.50 | 44.9 AV | 54.0 | -9.1 | 1.12 H | 134 | 12.10 | 32.80 |
| 5 | 4924.00 | 40.0 PK | 74.0 | -34.0 | 1.20 H | 360 | 1.10 | 38.90 |
| 6 | 4924.00 | 32.9 AV | 54.0 | -21.1 | 1.20 H | 360 | -6.00 | 38.90 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 106.7 PK | | | 1.09 V | 141 | 74.00 | 32.70 |
| 2 | *2462.00 | 103.0 AV | | | 1.09 V | 141 | 70.30 | 32.70 |
| 3 | 2488.00 | 60.2 PK | 74.0 | -13.8 | 1.04 V | 282 | 27.40 | 32.80 |
| **4** | **2488.00** | **52.8 AV** | **54.0** | **-1.2** | **1.04 V** | **282** | **20.00** | **32.80** |
| 5 | 4924.00 | 46.1 PK | 74.0 | -27.9 | 1.00 V | 300 | 7.20 | 38.90 |
| 6 | 4924.00 | 34.0 AV | 54.0 | -20.0 | 1.00 V | 300 | -4.90 | 38.90 |

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

## 802.11g

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.3 PK | 74.0 | -15.7 | 1.35 H | 49 | 25.80 | 32.50 |
| 2 | 2390.00 | 46.0 AV | 54.0 | -8.0 | 1.35 H | 49 | 13.50 | 32.50 |
| 3 | *2412.00 | 103.5 PK | | | 1.32 H | 37 | 70.90 | 32.60 |
| 4 | *2412.00 | 92.3 AV | | | 1.32 H | 37 | 59.70 | 32.60 |
| 5 | 4824.00 | 44.8 PK | 74.0 | -29.2 | 1.00 H | 360 | 6.10 | 38.70 |
| 6 | 4824.00 | 32.1 AV | 54.0 | -21.9 | 1.00 H | 360 | -6.60 | 38.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 57.5 PK | 74.0 | -16.5 | 1.38 V | 170 | 25.00 | 32.50 |
| 2 | 2390.00 | 46.1 AV | 54.0 | -7.9 | 1.38 V | 170 | 13.60 | 32.50 |
| 3 | *2412.00 | 105.5 PK | | | 1.41 V | 208 | 72.90 | 32.60 |
| 4 | *2412.00 | 94.3 AV | | | 1.41 V | 208 | 61.70 | 32.60 |
| 5 | 4824.00 | 44.7 PK | 74.0 | -29.3 | 1.00 V | 0 | 6.00 | 38.70 |
| 6 | 4824.00 | 32.0 AV | 54.0 | -22.0 | 1.00 V | 0 | -6.70 | 38.70 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.4 PK | 74.0 | -15.6 | 1.29 H | 40 | 25.90 | 32.50 |
| 2 | 2390.00 | 45.2 AV | 54.0 | -8.8 | 1.29 H | 40 | 12.70 | 32.50 |
| 3 | *2437.00 | 111.4 PK | | | 1.29 H | 40 | 78.80 | 32.60 |
| 4 | *2437.00 | 101.2 AV | | | 1.29 H | 40 | 68.60 | 32.60 |
| 5 | 2483.50 | 62.4 PK | 74.0 | -11.6 | 1.29 H | 40 | 29.60 | 32.80 |
| 6 | 2483.50 | 49.6 AV | 54.0 | -4.4 | 1.29 H | 40 | 16.80 | 32.80 |
| 7 | 4874.00 | 45.2 PK | 74.0 | -28.8 | 1.24 H | 180 | 6.40 | 38.80 |
| 8 | 4874.00 | 33.1 AV | 54.0 | -20.9 | 1.24 H | 180 | -5.70 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 60.8 PK | 74.0 | -13.2 | 1.24 V | 207 | 28.30 | 32.50 |
| 2 | 2390.00 | 47.6 AV | 54.0 | -6.4 | 1.24 V | 207 | 15.10 | 32.50 |
| 3 | *2437.00 | 113.6 PK | | | 1.40 V | 207 | 81.00 | 32.60 |
| 4 | *2437.00 | 103.5 AV | | | 1.40 V | 207 | 70.90 | 32.60 |
| 5 | 2483.50 | 65.0 PK | 74.0 | -9.0 | 1.22 V | 201 | 32.20 | 32.80 |
| 6 | 2483.50 | 51.5 AV | 54.0 | -2.5 | 1.22 V | 201 | 18.70 | 32.80 |
| 7 | 4874.00 | 47.7 PK | 74.0 | -26.3 | 1.34 V | 133 | 8.90 | 38.80 |
| 8 | 4874.00 | 35.4 AV | 54.0 | -18.6 | 1.34 V | 133 | -3.40 | 38.80 |

**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 other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 104.7 PK | | | 1.34 H | 211 | 72.00 | 32.70 |
| 2 | *2462.00 | 92.6 AV | | | 1.34 H | 211 | 59.90 | 32.70 |
| 3 | 2483.50 | 59.4 PK | 74.0 | -14.6 | 1.34 H | 211 | 26.60 | 32.80 |
| 4 | 2483.50 | 46.2 AV | 54.0 | -7.8 | 1.34 H | 211 | 13.40 | 32.80 |
| 5 | 4924.00 | 44.7 PK | 74.0 | -29.3 | 1.00 H | 0 | 5.80 | 38.90 |
| 6 | 4924.00 | 32.0 AV | 54.0 | -22.0 | 1.00 H | 0 | -6.90 | 38.90 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 106.4 PK | | | 1.42 V | 205 | 73.70 | 32.70 |
| 2 | *2462.00 | 95.7 AV | | | 1.42 V | 205 | 63.00 | 32.70 |
| 3 | 2483.50 | 61.1 PK | 74.0 | -12.9 | 1.11 V | 201 | 28.30 | 32.80 |
| 4 | 2483.50 | 48.8 AV | 54.0 | -5.2 | 1.11 V | 201 | 16.00 | 32.80 |
| 5 | 4924.00 | 44.8 PK | 74.0 | -29.2 | 1.01 V | 360 | 5.90 | 38.90 |
| 6 | 4924.00 | 32.1 AV | 54.0 | -21.9 | 1.01 V | 360 | -6.80 | 38.90 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 56.0 PK | 74.0 | -18.0 | 1.14 H | 212 | 23.50 | 32.50 |
| 2 | 2390.00 | 44.7 AV | 54.0 | -9.3 | 1.14 H | 212 | 12.20 | 32.50 |
| 3 | *2412.00 | 98.2 PK | | | 1.00 H | 231 | 65.60 | 32.60 |
| 4 | *2412.00 | 87.7 AV | | | 1.00 H | 231 | 55.10 | 32.60 |
| 5 | 4824.00 | 45.8 PK | 74.0 | -28.2 | 1.07 H | 180 | 7.10 | 38.70 |
| 6 | 4824.00 | 32.8 AV | 54.0 | -21.2 | 1.07 H | 180 | -5.90 | 38.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 63.4 PK | 74.0 | -10.6 | 1.09 V | 228 | 30.90 | 32.50 |
| 2 | 2390.00 | 47.4 AV | 54.0 | -6.6 | 1.09 V | 228 | 14.90 | 32.50 |
| 3 | *2412.00 | 108.9 PK | | | 1.13 V | 194 | 76.30 | 32.60 |
| 4 | *2412.00 | 99.1 AV | | | 1.13 V | 194 | 66.50 | 32.60 |
| 5 | 4824.00 | 45.9 PK | 74.0 | -28.1 | 1.00 V | 310 | 7.20 | 38.70 |
| 6 | 4824.00 | 33.9 AV | 54.0 | -20.1 | 1.00 V | 310 | -4.80 | 38.70 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 55.7 PK | 74.0 | -18.3 | 1.04 H | 39 | 23.20 | 32.50 |
| 2 | 2390.00 | 45.6 AV | 54.0 | -8.4 | 1.04 H | 39 | 13.10 | 32.50 |
| 3 | *2437.00 | 106.9 PK | | | 1.04 H | 39 | 74.30 | 32.60 |
| 4 | *2437.00 | 97.4 AV | | | 1.04 H | 39 | 64.80 | 32.60 |
| 5 | 2483.50 | 57.6 PK | 74.0 | -16.4 | 1.04 H | 39 | 24.80 | 32.80 |
| 6 | 2483.50 | 46.4 AV | 54.0 | -7.6 | 1.04 H | 39 | 13.60 | 32.80 |
| 7 | 4874.00 | 46.0 PK | 74.0 | -28.0 | 1.10 H | 360 | 7.20 | 38.80 |
| 8 | 4874.00 | 33.1 AV | 54.0 | -20.9 | 1.10 H | 360 | -5.70 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 68.1 PK | 74.0 | -5.9 | 1.11 V | 207 | 35.60 | 32.50 |
| 2 | 2390.00 | 50.9 AV | 54.0 | -3.1 | 1.11 V | 207 | 18.40 | 32.50 |
| 3 | *2437.00 | 116.8 PK | | | 1.11 V | 217 | 84.20 | 32.60 |
| 4 | *2437.00 | 107.2 AV | | | 1.11 V | 217 | 74.60 | 32.60 |
| 5 | 2483.50 | 64.9 PK | 74.0 | -9.1 | 1.32 V | 253 | 32.10 | 32.80 |
| 6 | 2483.50 | 52.3 AV | 54.0 | -1.7 | 1.32 V | 253 | 19.50 | 32.80 |
| 7 | 4874.00 | 46.0 PK | 74.0 | -28.0 | 1.00 V | 310 | 7.20 | 38.80 |
| 8 | 4874.00 | 33.6 AV | 54.0 | -20.4 | 1.00 V | 310 | -5.20 | 38.80 |

**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 other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 97.9 PK | | | 1.01 H | 234 | 65.20 | 32.70 |
| 2 | *2462.00 | 87.5 AV | | | 1.01 H | 234 | 54.80 | 32.70 |
| 3 | 2483.50 | 55.9 PK | 74.0 | -18.1 | 1.01 H | 234 | 23.10 | 32.80 |
| 4 | 2483.50 | 45.3 AV | 54.0 | -8.7 | 1.01 H | 234 | 12.50 | 32.80 |
| 5 | 4924.00 | 46.0 PK | 74.0 | -28.0 | 1.10 H | 180 | 7.10 | 38.90 |
| 6 | 4924.00 | 33.1 AV | 54.0 | -20.9 | 1.10 H | 180 | -5.80 | 38.90 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 108.8 PK | | | 1.09 V | 142 | 76.10 | 32.70 |
| 2 | *2462.00 | 99.2 AV | | | 1.09 V | 142 | 66.50 | 32.70 |
| 3 | 2483.50 | 66.6 PK | 74.0 | -7.4 | 1.09 V | 142 | 33.80 | 32.80 |
| 4 | 2483.50 | 49.4 AV | 54.0 | -4.6 | 1.09 V | 142 | 16.60 | 32.80 |
| 5 | 4924.00 | 46.1 PK | 74.0 | -27.9 | 1.04 V | 287 | 7.20 | 38.90 |
| 6 | 4924.00 | 34.0 AV | 54.0 | -20.0 | 1.04 V | 287 | -4.90 | 38.90 |

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

### 802.11n (20MHz)

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.9 PK | 74.0 | -15.1 | 1.29 H | 44 | 26.40 | 32.50 |
| 2 | 2390.00 | 46.7 AV | 54.0 | -7.3 | 1.29 H | 44 | 14.20 | 32.50 |
| 3 | *2412.00 | 102.7 PK | | | 1.29 H | 44 | 70.10 | 32.60 |
| 4 | *2412.00 | 91.2 AV | | | 1.29 H | 44 | 58.60 | 32.60 |
| 5 | 4824.00 | 44.9 PK | 74.0 | -29.1 | 1.00 H | 0 | 6.20 | 38.70 |
| 6 | 4824.00 | 32.5 AV | 54.0 | -21.5 | 1.00 H | 0 | -6.20 | 38.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.6 PK | 74.0 | -15.4 | 1.39 V | 211 | 26.10 | 32.50 |
| 2 | 2390.00 | 46.9 AV | 54.0 | -7.1 | 1.39 V | 211 | 14.40 | 32.50 |
| 3 | *2412.00 | 104.7 PK | | | 1.39 V | 211 | 72.10 | 32.60 |
| 4 | *2412.00 | 93.4 AV | | | 1.39 V | 211 | 60.80 | 32.60 |
| 5 | 4824.00 | 44.8 PK | 74.0 | -29.2 | 1.04 V | 360 | 6.10 | 38.70 |
| 6 | 4824.00 | 32.6 AV | 54.0 | -21.4 | 1.04 V | 360 | -6.10 | 38.70 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.1 PK | 74.0 | -15.9 | 1.28 H | 36 | 25.60 | 32.50 |
| 2 | 2390.00 | 45.0 AV | 54.0 | -9.0 | 1.28 H | 36 | 12.50 | 32.50 |
| 3 | *2437.00 | 110.8 PK | | | 1.28 H | 36 | 78.20 | 32.60 |
| 4 | *2437.00 | 100.6 AV | | | 1.28 H | 36 | 68.00 | 32.60 |
| 5 | 2483.50 | 62.1 PK | 74.0 | -11.9 | 1.28 H | 36 | 29.30 | 32.80 |
| 6 | 2483.50 | 49.3 AV | 54.0 | -4.7 | 1.28 H | 36 | 16.50 | 32.80 |
| 7 | 4874.00 | 45.0 PK | 74.0 | -29.0 | 1.06 H | 53 | 6.20 | 38.80 |
| 8 | 4874.00 | 32.8 AV | 54.0 | -21.2 | 1.06 H | 53 | -6.00 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 60.6 PK | 74.0 | -13.4 | 1.40 V | 212 | 28.10 | 32.50 |
| 2 | 2390.00 | 47.4 AV | 54.0 | -6.6 | 1.40 V | 212 | 14.90 | 32.50 |
| 3 | *2437.00 | 113.1 PK | | | 1.40 V | 212 | 80.50 | 32.60 |
| 4 | *2437.00 | 103.0 AV | | | 1.40 V | 212 | 70.40 | 32.60 |
| 5 | 2483.50 | 64.8 PK | 74.0 | -9.2 | 1.38 V | 209 | 32.00 | 32.80 |
| 6 | 2483.50 | 51.2 AV | 54.0 | -2.8 | 1.38 V | 209 | 18.40 | 32.80 |
| 7 | 4874.00 | 47.5 PK | 74.0 | -26.5 | 1.30 V | 129 | 8.70 | 38.80 |
| 8 | 4874.00 | 35.1 AV | 54.0 | -18.9 | 1.30 V | 129 | -3.70 | 38.80 |

**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 other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 102.9 PK | | | 1.28 H | 46 | 70.20 | 32.70 |
| 2 | *2462.00 | 91.4 AV | | | 1.28 H | 46 | 58.70 | 32.70 |
| 3 | 2483.50 | 59.1 PK | 74.0 | -14.9 | 1.28 H | 46 | 26.30 | 32.80 |
| 4 | 2483.50 | 46.0 AV | 54.0 | -8.0 | 1.28 H | 46 | 13.20 | 32.80 |
| 5 | 4924.00 | 44.3 PK | 74.0 | -29.7 | 1.01 H | 25 | 5.40 | 38.90 |
| 6 | 4924.00 | 31.6 AV | 54.0 | -22.4 | 1.01 H | 25 | -7.30 | 38.90 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 105.0 PK | | | 1.38 V | 206 | 72.30 | 32.70 |
| 2 | *2462.00 | 93.6 AV | | | 1.38 V | 206 | 60.90 | 32.70 |
| 3 | 2483.50 | 61.0 PK | 74.0 | -13.0 | 1.38 V | 206 | 28.20 | 32.80 |
| 4 | 2483.50 | 48.6 AV | 54.0 | -5.4 | 1.38 V | 206 | 15.80 | 32.80 |
| 5 | 4924.00 | 44.5 PK | 74.0 | -29.5 | 1.09 V | 236 | 5.60 | 38.90 |
| 6 | 4924.00 | 31.9 AV | 54.0 | -22.1 | 1.09 V | 236 | -7.00 | 38.90 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 55.7 PK | 74.0 | -18.3 | 1.00 H | 227 | 23.20 | 32.50 |
| 2 | 2390.00 | 44.4 AV | 54.0 | -9.6 | 1.00 H | 227 | 11.90 | 32.50 |
| 3 | *2412.00 | 97.3 PK | | | 1.00 H | 227 | 64.70 | 32.60 |
| 4 | *2412.00 | 86.9 AV | | | 1.00 H | 227 | 54.30 | 32.60 |
| 5 | 4824.00 | 45.6 PK | 74.0 | -28.4 | 1.07 H | 1 | 6.90 | 38.70 |
| 6 | 4824.00 | 32.5 AV | 54.0 | -21.5 | 1.07 H | 1 | -6.20 | 38.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 64.1 PK | 74.0 | -9.9 | 1.08 V | 155 | 31.60 | 32.50 |
| 2 | 2390.00 | 49.0 AV | 54.0 | -5.0 | 1.08 V | 155 | 16.50 | 32.50 |
| 3 | *2412.00 | 107.9 PK | | | 1.10 V | 172 | 75.30 | 32.60 |
| 4 | *2412.00 | 98.6 AV | | | 1.10 V | 172 | 66.00 | 32.60 |
| 5 | 4824.00 | 45.7 PK | 74.0 | -28.3 | 1.04 V | 330 | 7.00 | 38.70 |
| 6 | 4824.00 | 33.4 AV | 54.0 | -20.6 | 1.04 V | 330 | -5.30 | 38.70 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 55.9 PK | 74.0 | -18.1 | 1.04 H | 52 | 23.40 | 32.50 |
| 2 | 2390.00 | 45.9 AV | 54.0 | -8.1 | 1.04 H | 52 | 13.40 | 32.50 |
| 3 | *2437.00 | 105.7 PK | | | 1.04 H | 52 | 73.10 | 32.60 |
| 4 | *2437.00 | 96.1 AV | | | 1.04 H | 52 | 63.50 | 32.60 |
| 5 | 2483.50 | 58.1 PK | 74.0 | -15.9 | 1.04 H | 52 | 25.30 | 32.80 |
| 6 | 2483.50 | 46.9 AV | 54.0 | -7.1 | 1.04 H | 52 | 14.10 | 32.80 |
| 7 | 4874.00 | 46.7 PK | 74.0 | -27.3 | 1.10 H | 180 | 7.90 | 38.80 |
| 8 | 4874.00 | 33.5 AV | 54.0 | -20.5 | 1.10 H | 180 | -5.30 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 68.4 PK | 74.0 | -5.6 | 1.09 V | 222 | 35.90 | 32.50 |
| 2 | 2390.00 | 51.2 AV | 54.0 | -2.8 | 1.09 V | 222 | 18.70 | 32.50 |
| 3 | *2437.00 | 115.5 PK | | | 1.09 V | 222 | 82.90 | 32.60 |
| 4 | *2437.00 | 106.0 AV | | | 1.09 V | 222 | 73.40 | 32.60 |
| 5 | 2483.50 | 65.1 PK | 74.0 | -8.9 | 1.09 V | 222 | 32.30 | 32.80 |
| 6 | 2483.50 | 52.7 AV | 54.0 | -1.3 | 1.09 V | 222 | 19.90 | 32.80 |
| 7 | 4874.00 | 46.1 PK | 74.0 | -27.9 | 1.04 V | 0 | 7.30 | 38.80 |
| 8 | 4874.00 | 33.8 AV | 54.0 | -20.2 | 1.04 V | 0 | -5.00 | 38.80 |

**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 other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 11 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 96.8 PK | | | 1.01 H | 300 | 64.10 | 32.70 |
| 2 | *2462.00 | 86.2 AV | | | 1.01 H | 300 | 53.50 | 32.70 |
| 3 | 2483.50 | 55.4 PK | 74.0 | -18.6 | 1.00 H | 300 | 22.60 | 32.80 |
| 4 | 2483.50 | 44.0 AV | 54.0 | -10.0 | 1.00 H | 300 | 11.20 | 32.80 |
| 5 | 4924.00 | 45.9 PK | 74.0 | -28.1 | 1.10 H | 360 | 7.00 | 38.90 |
| 6 | 4924.00 | 33.0 AV | 54.0 | -21.0 | 1.10 H | 360 | -5.90 | 38.90 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2462.00 | 107.2 PK | | | 1.09 V | 142 | 74.50 | 32.70 |
| 2 | *2462.00 | 97.8 AV | | | 1.09 V | 142 | 65.10 | 32.70 |
| 3 | 2483.50 | 65.2 PK | 74.0 | -8.8 | 1.05 V | 241 | 32.40 | 32.80 |
| 4 | 2483.50 | 48.7 AV | 54.0 | -5.3 | 1.05 V | 241 | 15.90 | 32.80 |
| 5 | 4924.00 | 46.4 PK | 74.0 | -27.6 | 1.07 V | 300 | 7.50 | 38.90 |
| 6 | 4924.00 | 34.0 AV | 54.0 | -20.0 | 1.07 V | 300 | -4.90 | 38.90 |

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

### 802.11n (40MHz)

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 58.9 PK | 74.0 | -15.1 | 1.30 H | 45 | 26.40 | 32.50 |
| 2 | 2390.00 | 45.1 AV | 54.0 | -8.9 | 1.30 H | 45 | 12.60 | 32.50 |
| 3 | *2422.00 | 96.4 PK | | | 1.30 H | 45 | 63.80 | 32.60 |
| 4 | *2422.00 | 86.3 AV | | | 1.30 H | 45 | 53.70 | 32.60 |
| 5 | 4844.00 | 45.6 PK | 74.0 | -28.4 | 1.05 H | 216 | 6.90 | 38.70 |
| 6 | 4844.00 | 33.2 AV | 54.0 | -20.8 | 1.05 H | 216 | -5.50 | 38.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 60.1 PK | 74.0 | -13.9 | 1.05 V | 310 | 27.60 | 32.50 |
| 2 | 2390.00 | 46.3 AV | 54.0 | -7.7 | 1.05 V | 310 | 13.80 | 32.50 |
| 3 | *2422.00 | 98.6 PK | | | 1.05 V | 310 | 66.00 | 32.60 |
| 4 | *2422.00 | 88.5 AV | | | 1.05 V | 310 | 55.90 | 32.60 |
| 5 | 4844.00 | 45.8 PK | 74.0 | -28.2 | 1.09 V | 316 | 7.10 | 38.70 |
| 6 | 4844.00 | 33.5 AV | 54.0 | -20.5 | 1.09 V | 316 | -5.20 | 38.70 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 4 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 67.0 PK | 74.0 | -7.0 | 1.29 H | 46 | 34.50 | 32.50 |
| 2 | 2390.00 | 50.2 AV | 54.0 | -3.8 | 1.29 H | 46 | 17.70 | 32.50 |
| 3 | *2437.00 | 105.1 PK | | | 1.29 H | 46 | 72.50 | 32.60 |
| 4 | *2437.00 | 95.0 AV | | | 1.29 H | 46 | 62.40 | 32.60 |
| 5 | 2483.50 | 65.5 PK | 74.0 | -8.5 | 1.29 H | 46 | 32.70 | 32.80 |
| 6 | 2483.50 | 49.8 AV | 54.0 | -4.2 | 1.29 H | 46 | 17.00 | 32.80 |
| 7 | 4874.00 | 45.4 PK | 74.0 | -28.6 | 1.03 H | 226 | 6.60 | 38.80 |
| 8 | 4874.00 | 33.0 AV | 54.0 | -21.0 | 1.03 H | 226 | -5.80 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 68.2 PK | 74.0 | -5.8 | 1.06 V | 308 | 35.70 | 32.50 |
| 2 | 2390.00 | 51.4 AV | 54.0 | -2.6 | 1.06 V | 308 | 18.90 | 32.50 |
| 3 | *2437.00 | 107.2 PK | | | 1.06 V | 308 | 74.60 | 32.60 |
| 4 | *2437.00 | 97.1 AV | | | 1.06 V | 308 | 64.50 | 32.60 |
| 5 | 2483.50 | 66.9 PK | 74.0 | -7.1 | 1.06 V | 308 | 34.10 | 32.80 |
| 6 | 2483.50 | 51.2 AV | 54.0 | -2.8 | 1.06 V | 308 | 18.40 | 32.80 |
| 7 | 4874.00 | 46.2 PK | 74.0 | -27.8 | 1.09 V | 235 | 7.40 | 38.80 |
| 8 | 4874.00 | 33.9 AV | 54.0 | -20.1 | 1.09 V | 235 | -4.90 | 38.80 |

**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 other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 7 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2452.00 | 96.1 PK | | | 1.29 H | 46 | 63.40 | 32.70 |
| 2 | *2452.00 | 86.0 AV | | | 1.29 H | 46 | 53.30 | 32.70 |
| 3 | 2483.50 | 61.8 PK | 74.0 | -12.2 | 1.29 H | 46 | 29.00 | 32.80 |
| 4 | 2483.50 | 46.6 AV | 54.0 | -7.4 | 1.29 H | 46 | 13.80 | 32.80 |
| 5 | 4904.00 | 46.8 PK | 74.0 | -27.2 | 1.08 H | 99 | 8.00 | 38.80 |
| 6 | 4904.00 | 34.0 AV | 54.0 | -20.0 | 1.08 H | 99 | -4.80 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2452.00 | 98.3 PK | | | 1.06 V | 308 | 65.60 | 32.70 |
| 2 | *2452.00 | 88.1 AV | | | 1.06 V | 308 | 55.40 | 32.70 |
| 3 | 2483.50 | 62.9 PK | 74.0 | -11.1 | 1.06 V | 308 | 30.10 | 32.80 |
| 4 | 2483.50 | 48.0 AV | 54.0 | -6.0 | 1.06 V | 308 | 15.20 | 32.80 |
| 5 | 4904.00 | 47.1 PK | 74.0 | -26.9 | 1.05 V | 236 | 8.30 | 38.80 |
| 6 | 4904.00 | 34.2 AV | 54.0 | -19.8 | 1.05 V | 236 | -4.60 | 38.80 |

**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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 1 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 57.0 PK | 74.0 | -17.0 | 1.38 H | 45 | 24.50 | 32.50 |
| 2 | 2390.00 | 44.4 AV | 54.0 | -9.6 | 1.38 H | 45 | 11.90 | 32.50 |
| 3 | *2422.00 | 90.9 PK | | | 1.38 H | 45 | 58.30 | 32.60 |
| 4 | *2422.00 | 81.1 AV | | | 1.38 H | 45 | 48.50 | 32.60 |
| 5 | 4844.00 | 46.0 PK | 74.0 | -28.0 | 1.10 H | 0 | 7.30 | 38.70 |
| 6 | 4844.00 | 33.6 AV | 54.0 | -20.4 | 1.10 H | 0 | -5.10 | 38.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 62.1 PK | 74.0 | -11.9 | 1.06 V | 306 | 29.60 | 32.50 |
| 2 | 2390.00 | 47.6 AV | 54.0 | -6.4 | 1.06 V | 306 | 15.10 | 32.50 |
| 3 | *2422.00 | 101.7 PK | | | 1.06 V | 306 | 69.10 | 32.60 |
| 4 | *2422.00 | 91.8 AV | | | 1.06 V | 306 | 59.20 | 32.60 |
| 5 | 4844.00 | 46.0 PK | 74.0 | -28.0 | 1.04 V | 333 | 7.30 | 38.70 |
| 6 | 4844.00 | 33.6 AV | 54.0 | -20.4 | 1.04 V | 333 | -5.10 | 38.70 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 4 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 55.3 PK | 74.0 | -18.7 | 1.25 H | 58 | 22.80 | 32.50 |
| 2 | 2390.00 | 46.0 AV | 54.0 | -8.0 | 1.25 H | 58 | 13.50 | 32.50 |
| 3 | *2437.00 | 99.6 PK | | | 1.27 H | 50 | 67.00 | 32.60 |
| 4 | *2437.00 | 89.8 AV | | | 1.27 H | 50 | 57.20 | 32.60 |
| 5 | 2483.50 | 56.7 PK | 74.0 | -17.3 | 1.27 H | 58 | 23.90 | 32.80 |
| 6 | 2483.50 | 45.8 AV | 54.0 | -8.2 | 1.27 H | 58 | 13.00 | 32.80 |
| 7 | 4874.00 | 45.9 PK | 74.0 | -28.1 | 1.04 H | 0 | 7.10 | 38.80 |
| 8 | 4874.00 | 33.6 AV | 54.0 | -20.4 | 1.04 H | 0 | -5.20 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 2390.00 | 69.0 PK | 74.0 | -5.0 | 1.29 V | 307 | 36.50 | 32.50 |
| 2 | 2390.00 | 52.5 AV | 54.0 | -1.5 | 1.29 V | 307 | 20.00 | 32.50 |
| 3 | *2437.00 | 109.5 PK | | | 1.06 V | 309 | 76.90 | 32.60 |
| 4 | *2437.00 | 99.9 AV | | | 1.06 V | 309 | 67.30 | 32.60 |
| 5 | 2483.50 | 67.9 PK | 74.0 | -6.1 | 1.06 V | 343 | 35.10 | 32.80 |
| 6 | 2483.50 | 52.4 AV | 54.0 | -1.6 | 1.06 V | 343 | 19.60 | 32.80 |
| 7 | 4874.00 | 46.2 PK | 74.0 | -27.8 | 1.01 V | 300 | 7.40 | 38.80 |
| 8 | 4874.00 | 33.7 AV | 54.0 | -20.3 | 1.01 V | 300 | -5.10 | 38.80 |

**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 other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. " * ": Fundamental frequency.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 7 | FREQUENCY RANGE | 1 ~ 25GHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH<br>1000 hPa | TESTED BY | Match Tsui |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2452.00 | 89.8 PK | | | 1.41 H | 36 | 57.10 | 32.70 |
| 2 | *2452.00 | 79.9 AV | | | 1.41 H | 36 | 47.20 | 32.70 |
| 3 | 2483.50 | 57.1 PK | 74.0 | -16.9 | 1.41 H | 36 | 24.30 | 32.80 |
| 4 | 2483.50 | 46.0 AV | 54.0 | -8.0 | 1.41 H | 36 | 13.20 | 32.80 |
| 5 | 4904.00 | 46.2 PK | 74.0 | -27.8 | 1.01 H | 0 | 7.40 | 38.80 |
| 6 | 4904.00 | 33.5 AV | 54.0 | -20.5 | 1.01 H | 0 | -5.30 | 38.80 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *2452.00 | 100.4 PK | | | 1.06 V | 307 | 67.70 | 32.70 |
| 2 | *2452.00 | 90.9 AV | | | 1.06 V | 307 | 58.20 | 32.70 |
| 3 | 2483.50 | 63.7 PK | 74.0 | -10.3 | 1.06 V | 307 | 30.90 | 32.80 |
| 4 | 2483.50 | 49.1 AV | 54.0 | -4.9 | 1.06 V | 307 | 16.30 | 32.80 |
| 5 | 4904.00 | 46.7 PK | 74.0 | -27.3 | 1.00 V | 300 | 7.90 | 38.80 |
| 6 | 4904.00 | 33.8 AV | 54.0 | -20.2 | 1.00 V | 300 | -5.00 | 38.80 |

**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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

## BELOW 1GHz WORST-CASE DATA：802.11g

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH 1000 hPa | TESTED BY | Long Chen |
| TEST MODE | A1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 92.12 | 33.6 QP | 43.5 | -9.9 | 2.00 H | 259 | 24.51 | 9.08 |
| 2 | 333.21 | 39.3 QP | 46.0 | -6.7 | 1.00 H | 346 | 23.20 | 16.08 |
| 3 | 465.42 | 41.2 QP | 46.0 | -4.8 | 2.00 H | 196 | 20.43 | 20.79 |
| 4 | 477.09 | 41.7 QP | 46.0 | -4.3 | 2.00 H | 199 | 20.59 | 21.07 |
| 5 | 681.24 | 39.7 QP | 46.0 | -6.4 | 1.00 H | 43 | 13.49 | 26.16 |
| 6 | 850.39 | 36.7 QP | 46.0 | -9.3 | 1.00 H | 10 | 7.49 | 29.22 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 35.73 | 36.1 QP | 40.0 | -3.9 | 1.00 V | 10 | 21.55 | 14.59 |
| 2 | 333.21 | 41.3 QP | 46.0 | -4.7 | 2.00 V | 94 | 25.25 | 16.08 |
| 3 | 500.30 | 41.4 QP | 46.0 | -4.6 | 1.00 V | 271 | 19.80 | 21.61 |
| 4 | 578.20 | 42.1 QP | 46.0 | -3.9 | 1.25 V | 181 | 18.72 | 23.38 |
| 5 | 601.50 | 42.5 QP | 46.0 | -3.5 | 1.25 V | 181 | 18.62 | 23.88 |
| 6 | 943.72 | 42.5 QP | 46.0 | -3.5 | 1.25 V | 181 | 11.61 | 30.86 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH 1000 hPa | TESTED BY | Long Chen |
| TEST MODE | A2 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 82.40 | 35.2 QP | 40.0 | -4.8 | 1.00 H | 244 | 26.84 | 8.38 |
| 2 | 166.00 | 33.6 QP | 43.5 | -10.0 | 1.00 H | 255 | 19.07 | 14.48 |
| 3 | 333.21 | 41.2 QP | 46.0 | -4.8 | 1.50 H | 322 | 25.10 | 16.08 |
| 4 | 733.73 | 42.9 QP | 46.0 | -3.1 | 1.00 H | 34 | 15.78 | 27.12 |
| 5 | 799.84 | 43.0 QP | 46.0 | -3.0 | 1.00 H | 13 | 15.16 | 27.84 |
| 6 | 866.64 | 42.4 QP | 46.0 | -3.6 | 1.00 H | 19 | 12.78 | 29.62 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 41.57 | 32.9 QP | 40.0 | -7.1 | 1.50 V | 334 | 17.76 | 15.17 |
| 2 | 167.94 | 40.1 QP | 43.5 | -3.4 | 1.50 V | 10 | 25.73 | 14.37 |
| 3 | 333.21 | 41.5 QP | 46.0 | -4.5 | 1.50 V | 220 | 25.41 | 16.08 |
| 4 | 467.36 | 42.2 QP | 46.0 | -3.8 | 2.25 V | 340 | 21.38 | 20.84 |
| 5 | 533.32 | 42.6 QP | 46.0 | -3.5 | 1.00 V | 200 | 20.15 | 22.40 |
| 6 | 799.98 | 38.8 QP | 46.0 | -7.2 | 1.00 V | 203 | 11.00 | 27.84 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH 1000 hPa | TESTED BY | Long Chen |
| TEST MODE | A3 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 267.10 | 36.8 QP | 46.0 | -9.2 | 1.00 H | 352 | 22.31 | 14.53 |
| 2 | 333.21 | 41.4 QP | 46.0 | -4.6 | 1.00 H | 10 | 25.34 | 16.08 |
| 3 | 533.36 | 42.8 QP | 46.0 | -3.2 | 1.62 H | 356 | 20.41 | 22.40 |
| 4 | 599.58 | 38.6 QP | 46.0 | -7.4 | 1.00 H | 352 | 14.74 | 23.83 |
| 5 | 799.84 | 42.2 QP | 46.0 | -3.8 | 1.00 H | 10 | 14.38 | 27.84 |
| 6 | 867.89 | 42.5 QP | 46.0 | -3.5 | 1.00 H | 10 | 12.81 | 29.65 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 43.92 | 34.0 QP | 40.0 | -6.0 | 1.00 V | 2 | 19.22 | 14.75 |
| 2 | 148.50 | 37.6 QP | 43.5 | -5.9 | 1.50 V | 166 | 23.25 | 14.34 |
| 3 | 226.27 | 41.1 QP | 46.0 | -4.9 | 1.00 V | 295 | 28.23 | 12.88 |
| 4 | 333.21 | 41.8 QP | 46.0 | -4.2 | 1.50 V | 49 | 25.70 | 16.08 |
| 5 | 533.33 | 42.7 QP | 46.0 | -3.3 | 1.00 V | 187 | 20.34 | 22.40 |
| 6 | 667.63 | 40.8 QP | 46.0 | -5.2 | 1.00 V | 325 | 15.07 | 25.77 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH 1000 hPa | TESTED BY | Long Chen |
| TEST MODE | B1 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 90.17 | 33.7 QP | 43.5 | -9.8 | 1.00 H | 154 | 25.32 | 8.36 |
| 2 | 146.56 | 34.7 QP | 43.5 | -8.8 | 1.00 H | 213 | 20.57 | 14.12 |
| 3 | 333.21 | 39.8 QP | 46.0 | -6.2 | 1.20 H | 235 | 23.71 | 16.08 |
| 4 | 519.90 | 39.7 QP | 46.0 | -6.3 | 1.00 H | 157 | 17.61 | 22.08 |
| 5 | 681.24 | 36.0 QP | 46.0 | -10.0 | 1.30 H | 113 | 9.82 | 26.16 |
| 6 | 875.67 | 41.0 QP | 46.0 | -5.0 | 1.50 H | 319 | 11.12 | 29.84 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 35.73 | 37.0 QP | 40.0 | -3.0 | 1.00 V | 337 | 22.41 | 14.59 |
| 2 | 333.21 | 41.3 QP | 46.0 | -4.8 | 2.00 V | 280 | 25.17 | 16.08 |
| 3 | 469.31 | 42.5 QP | 46.0 | -3.5 | 2.00 V | 169 | 21.59 | 20.89 |
| 4 | 545.14 | 42.4 QP | 46.0 | -3.6 | 2.00 V | 256 | 19.70 | 22.68 |
| 5 | 700.68 | 41.7 QP | 46.0 | -4.3 | 1.25 V | 118 | 15.00 | 26.71 |
| 6 | 875.67 | 41.5 QP | 46.0 | -4.5 | 1.00 V | 169 | 11.62 | 29.84 |

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

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH 1000 hPa | TESTED BY | Long Chen |
| TEST MODE | B2 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 333.21 | 42.9 QP | 46.0 | -3.1 | 2.25 H | 346 | 26.80 | 16.10 |
| 2 | 500.42 | 42.3 QP | 46.0 | -3.7 | 2.00 H | 286 | 20.60 | 21.70 |
| 3 | 533.35 | 42.9 QP | 46.0 | -3.1 | 1.55 H | 292 | 20.50 | 22.40 |
| 4 | 733.73 | 42.9 QP | 46.0 | -3.1 | 1.00 H | 31 | 15.70 | 27.20 |
| 5 | 799.84 | 43.0 QP | 46.0 | -3.0 | 1.00 H | 10 | 15.10 | 27.90 |
| 6 | 867.89 | 42.1 QP | 46.0 | -3.9 | 1.00 H | 10 | 12.40 | 29.70 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 37.68 | 37.0 QP | 40.0 | -3.0 | 2.00 V | 4 | 22.00 | 15.00 |
| 2 | 66.84 | 36.7 QP | 40.0 | -3.3 | 1.50 V | 331 | 23.20 | 13.50 |
| 3 | 333.21 | 42.7 QP | 46.0 | -3.3 | 1.50 V | 316 | 26.60 | 16.10 |
| 4 | 500.01 | 43.0 QP | 46.0 | -3.0 | 1.00 V | 137 | 21.40 | 21.60 |
| 5 | 533.47 | 40.5 QP | 46.0 | -5.5 | 1.00 V | 286 | 18.10 | 22.40 |
| 6 | 667.63 | 41.1 QP | 46.0 | -4.9 | 1.00 V | 292 | 15.30 | 25.80 |

**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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

| EUT TEST CONDITION | | MEASUREMENT DETAIL | |
|---|---|---|---|
| CHANNEL | Channel 6 | FREQUENCY RANGE | Below 1000MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60Hz | DETECTOR FUNCTION | Quasi-Peak |
| ENVIRONMENTAL CONDITIONS | 25deg. C, 65%RH 1000 hPa | TESTED BY | Long Chen |
| TEST MODE | B3 | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 167.94 | 40.1 QP | 43.5 | -3.4 | 2.00 H | 250 | 25.70 | 14.40 |
| 2 | 333.21 | 41.7 QP | 46.0 | -4.3 | 2.25 H | 106 | 25.60 | 16.10 |
| 3 | 500.42 | 42.5 QP | 46.0 | -3.5 | 2.00 H | 304 | 20.80 | 21.70 |
| 4 | 533.33 | 42.1 QP | 46.0 | -3.9 | 1.48 H | 321 | 19.70 | 22.40 |
| 5 | 733.73 | 42.0 QP | 46.0 | -4.0 | 1.00 H | 10 | 14.80 | 27.20 |
| 6 | 933.33 | 42.9 QP | 46.0 | -3.1 | 1.48 H | 245 | 12.10 | 30.80 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 64.90 | 35.9 QP | 40.0 | -4.1 | 2.25 V | 214 | 22.40 | 13.50 |
| 2 | 500.42 | 42.4 QP | 46.0 | -3.6 | 1.50 V | 124 | 20.70 | 21.70 |
| 3 | 533.35 | 39.0 QP | 46.0 | -7.0 | 1.62 V | 202 | 16.60 | 22.40 |
| 4 | 599.58 | 42.4 QP | 46.0 | -3.6 | 1.00 V | 268 | 18.50 | 23.90 |
| 5 | 667.63 | 40.1 QP | 46.0 | -5.9 | 2.25 V | 199 | 14.30 | 25.80 |
| 6 | 933.99 | 42.6 QP | 46.0 | -3.4 | 1.50 V | 154 | 11.80 | 30.80 |

**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 other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

## 4.2 CONDUCTED EMISSION MEASUREMENT

### 4.2.1 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 |

**NOTE**: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

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.

### 4.2.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| Test Receiver ROHDE & SCHWARZ | ESCS30 | 100291 | Dec. 16, 2009 | Dec. 15, 2010 |
| RF signal cable Woken | 5D-FB | Cable-HYC01-01 | Nov. 12, 2009 | Nov. 11, 2010 |
| LISN ROHDE & SCHWARZ | ESH3-Z5 | 100312 | Jun. 28, 2010 | Jun. 27, 2011 |
| LISN ROHDE & SCHWARZ | ESH3-Z5 | 835239/001 | Feb. 10, 2010 | Feb. 09, 2011 |
| Software ADT | ADT_Cond_ V7.3.7 | NA | NA | NA |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

### 4.2.3 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.

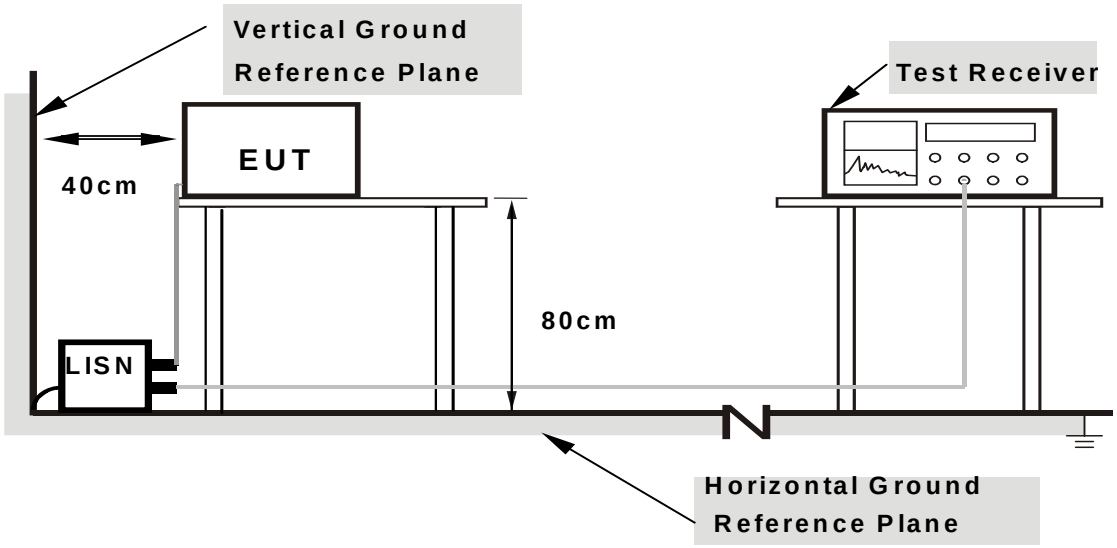
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

## 4.2.5 TEST SETUP




**Note: 1.Support units were connected to second LISN.**
**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

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

## 4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

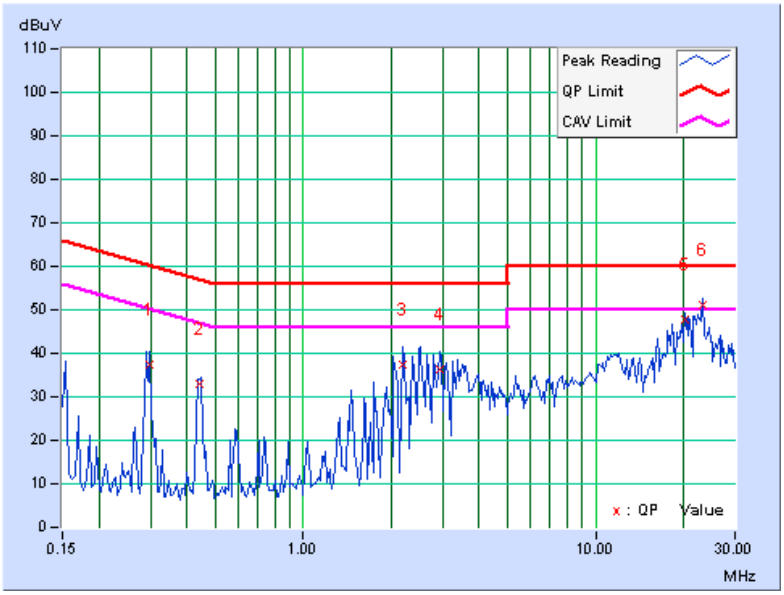
## 4.2.7 TEST RESULTS

**CONDUCTED WORST-CASE DATA：802.11g**

| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | A1 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.298 | 0.12 | 37.34 | - | 37.46 | - | 60.29 | 50.29 | -22.83 | - |
| 2 | 0.441 | 0.13 | 32.80 | - | 32.93 | - | 57.05 | 47.05 | -24.12 | - |
| 3 | 2.203 | 0.26 | 37.02 | - | 37.28 | - | 56.00 | 46.00 | -18.72 | - |
| 4 | 2.934 | 0.30 | 35.93 | - | 36.23 | - | 56.00 | 46.00 | -19.77 | - |
| 5 | 20.258 | 1.51 | 46.37 | - | 47.88 | - | 60.00 | 50.00 | -12.12 | - |
| 6 | 23.129 | 1.68 | 49.47 | 46.61 | 51.15 | 48.29 | 60.00 | 50.00 | -8.85 | -1.71 |

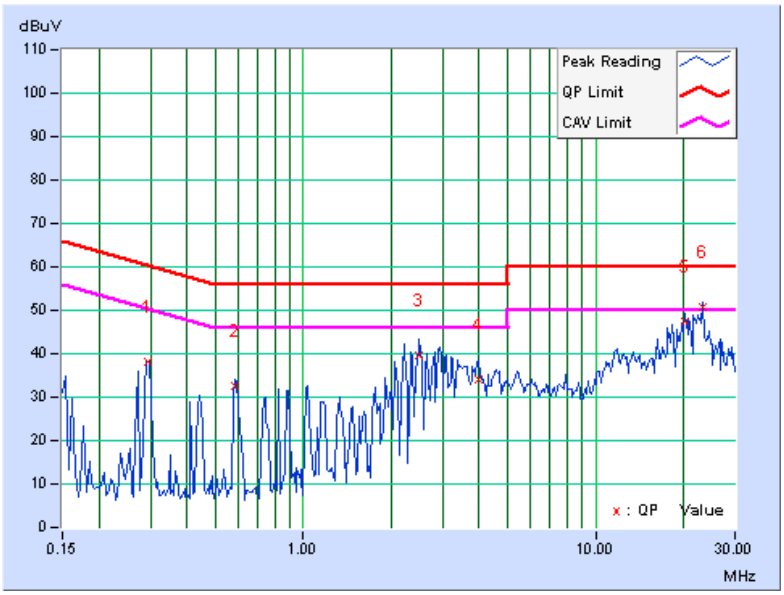
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | A1 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.295 | 0.11 | 38.04 | - | 38.15 | - | 60.39 | 50.39 | -22.24 | - |
| 2 | 0.588 | 0.14 | 32.32 | - | 32.46 | - | 56.00 | 46.00 | -23.54 | - |
| 3 | 2.496 | 0.26 | 39.36 | - | 39.62 | - | 56.00 | 46.00 | -16.38 | - |
| 4 | 3.961 | 0.32 | 33.85 | - | 34.17 | - | 56.00 | 46.00 | -21.83 | - |
| 5 | 20.258 | 1.32 | 46.25 | - | 47.57 | - | 60.00 | 50.00 | -12.43 | - |
| 6 | 23.129 | 1.47 | 49.10 | 46.28 | 50.57 | 47.75 | 60.00 | 50.00 | -9.43 | -2.25 |

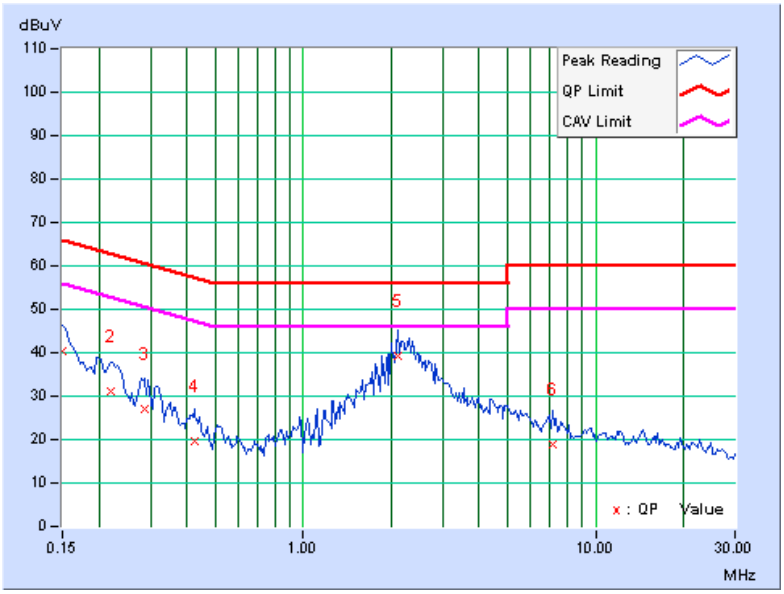
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | A2 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.12 | 40.27 | - | 40.39 | - | 66.00 | 56.00 | -25.61 | - |
| 2 | 0.220 | 0.11 | 31.04 | - | 31.15 | - | 62.81 | 52.81 | -31.66 | - |
| 3 | 0.287 | 0.12 | 27.04 | - | 27.16 | - | 60.62 | 50.62 | -33.46 | - |
| 4 | 0.423 | 0.13 | 19.56 | - | 19.69 | - | 57.38 | 47.38 | -37.69 | - |
| 5 | 2.109 | 0.26 | 38.85 | - | 39.11 | - | 56.00 | 46.00 | -16.89 | - |
| 6 | 7.098 | 0.50 | 18.49 | - | 18.99 | - | 60.00 | 50.00 | -41.01 | - |

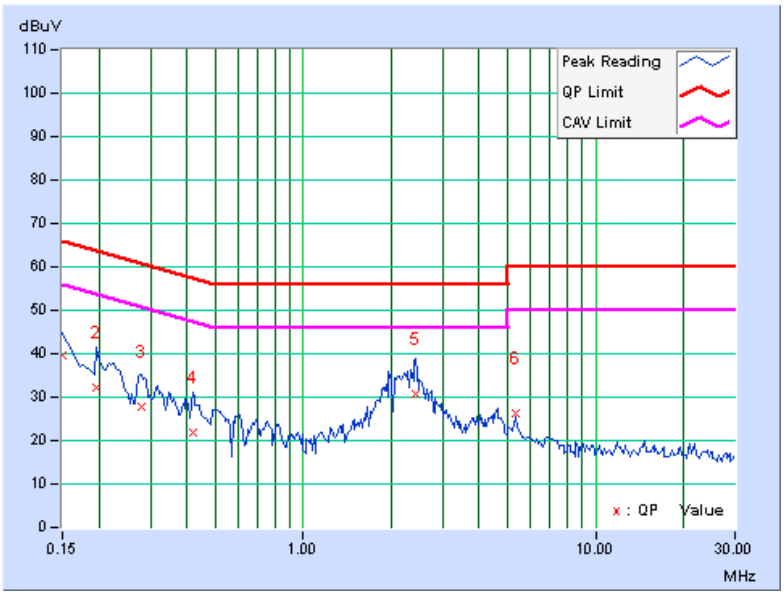
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | A2 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 39.68 | - | 39.78 | - | 66.00 | 56.00 | -26.22 | - |
| 2 | 0.197 | 0.10 | 32.21 | - | 32.31 | - | 63.74 | 53.74 | -31.43 | - |
| 3 | 0.279 | 0.11 | 27.49 | - | 27.60 | - | 60.85 | 50.85 | -33.25 | - |
| 4 | 0.420 | 0.12 | 21.58 | - | 21.70 | - | 57.46 | 47.46 | -35.76 | - |
| 5 | 2.430 | 0.26 | 30.30 | - | 30.56 | - | 56.00 | 46.00 | -25.44 | - |
| 6 | 5.340 | 0.37 | 25.81 | - | 26.18 | - | 60.00 | 50.00 | -33.82 | - |

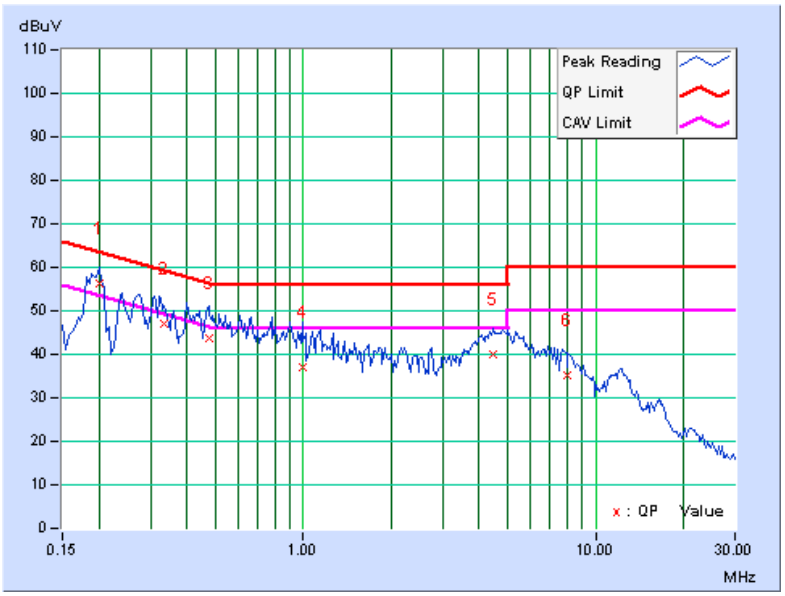
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | A3 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.201 | 0.11 | 56.23 | 45.46 | 56.34 | 45.57 | 63.58 | 53.58 | -7.24 | -8.01 |
| 2 | 0.335 | 0.12 | 47.06 | - | 47.18 | - | 59.34 | 49.34 | -12.15 | - |
| 3 | 0.474 | 0.14 | 43.66 | - | 43.80 | - | 56.44 | 46.44 | -12.64 | - |
| 4 | 0.990 | 0.18 | 36.71 | - | 36.89 | - | 56.00 | 46.00 | -19.11 | - |
| 5 | 4.465 | 0.37 | 39.75 | - | 40.12 | - | 56.00 | 46.00 | -15.88 | - |
| 6 | 8.035 | 0.55 | 34.48 | - | 35.03 | - | 60.00 | 50.00 | -24.97 | - |

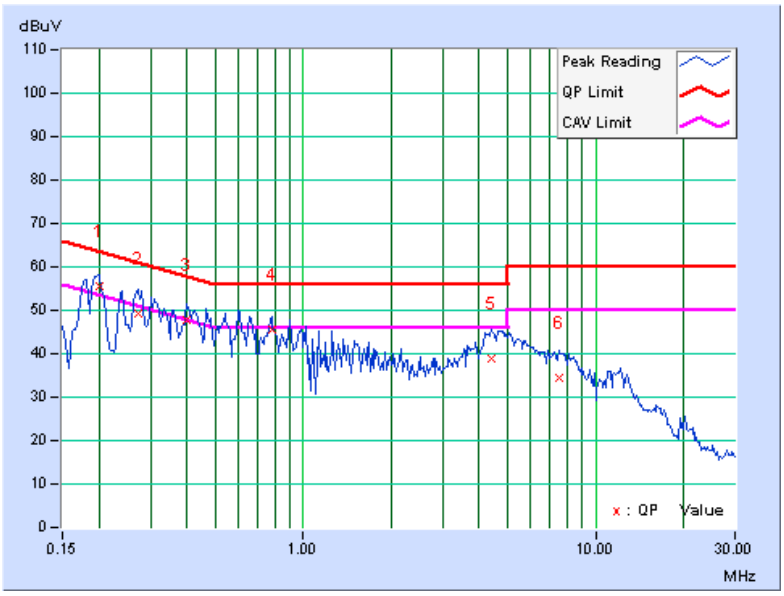
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | A3 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.201 | 0.10 | 55.57 | 43.98 | 55.67 | 44.08 | 63.58 | 53.58 | -7.91 | -9.50 |
| 2 | 0.271 | 0.11 | 49.24 | - | 49.35 | - | 61.08 | 51.08 | -11.74 | - |
| 3 | 0.400 | 0.12 | 47.62 | - | 47.74 | - | 57.85 | 47.85 | -10.11 | - |
| 4 | 0.779 | 0.15 | 45.40 | - | 45.55 | - | 56.00 | 46.00 | -10.45 | - |
| 5 | 4.379 | 0.34 | 38.52 | - | 38.86 | - | 56.00 | 46.00 | -17.14 | - |
| 6 | 7.521 | 0.46 | 34.00 | - | 34.46 | - | 60.00 | 50.00 | -25.54 | - |

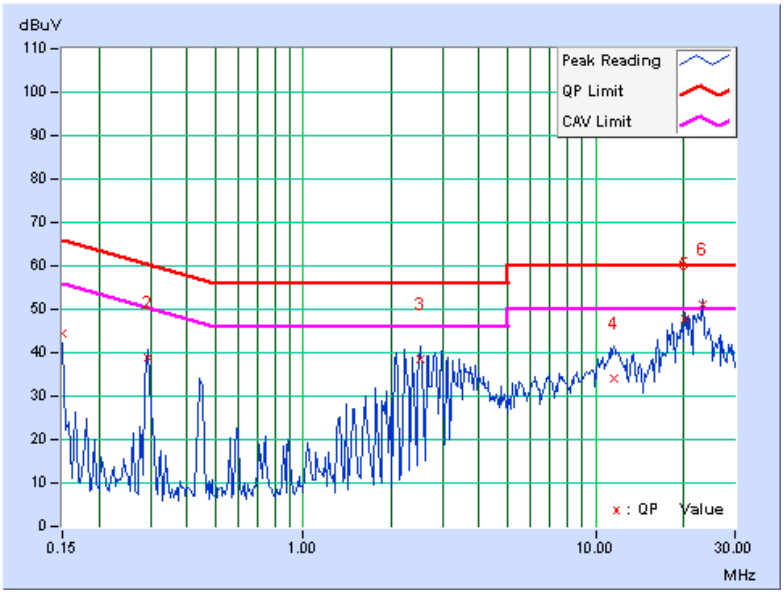
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | B1 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.12 | 44.49 | - | 44.61 | - | 66.00 | 56.00 | -21.39 | - |
| 2 | 0.295 | 0.12 | 38.71 | - | 38.83 | - | 60.40 | 50.40 | -21.57 | - |
| 3 | 2.516 | 0.28 | 38.11 | - | 38.39 | - | 56.00 | 46.00 | -17.61 | - |
| 4 | 11.559 | 0.77 | 33.38 | - | 34.15 | - | 60.00 | 50.00 | -25.85 | - |
| 5 | 20.258 | 1.51 | 46.35 | - | 47.86 | - | 60.00 | 50.00 | -12.14 | - |
| **6** | **23.129** | **1.68** | **49.51** | **46.69** | **51.19** | **48.37** | **60.00** | **50.00** | **-8.81** | **-1.63** |

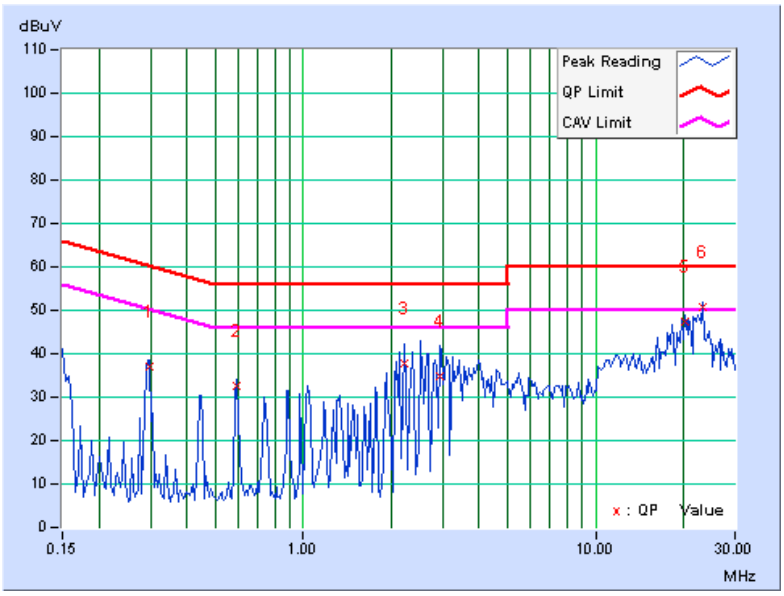
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | B1 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.298 | 0.11 | 36.90 | - | 37.01 | - | 60.29 | 50.29 | -23.28 | - |
| 2 | 0.591 | 0.14 | 32.50 | - | 32.64 | - | 56.00 | 46.00 | -23.36 | - |
| 3 | 2.207 | 0.25 | 37.61 | - | 37.86 | - | 56.00 | 46.00 | -18.14 | - |
| 4 | 2.934 | 0.28 | 34.71 | - | 34.99 | - | 56.00 | 46.00 | -21.01 | - |
| 5 | 20.258 | 1.32 | 46.23 | - | 47.55 | - | 60.00 | 50.00 | -12.45 | - |
| 6 | 23.129 | 1.47 | 49.15 | 46.32 | 50.62 | 47.79 | 60.00 | 50.00 | -9.38 | -2.21 |

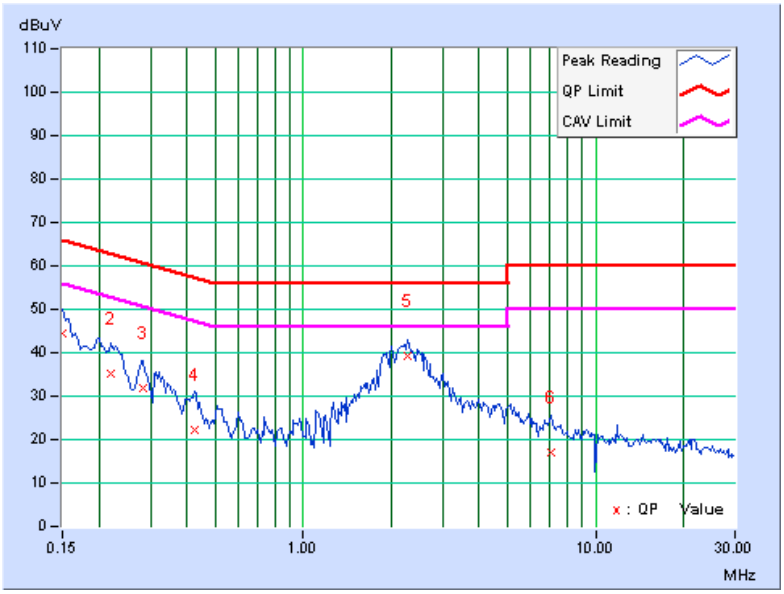
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | B2 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.12 | 44.43 | - | 44.55 | - | 66.00 | 56.00 | -21.45 | - |
| 2 | 0.220 | 0.11 | 35.17 | - | 35.28 | - | 62.81 | 52.81 | -27.53 | - |
| 3 | 0.283 | 0.12 | 31.57 | - | 31.69 | - | 60.73 | 50.73 | -29.04 | - |
| 4 | 0.423 | 0.13 | 22.21 | - | 22.34 | - | 57.38 | 47.38 | -35.04 | - |
| 5 | 2.281 | 0.26 | 38.87 | - | 39.13 | - | 56.00 | 46.00 | -16.87 | - |
| 6 | 7.078 | 0.50 | 16.41 | - | 16.91 | - | 60.00 | 50.00 | -43.09 | - |

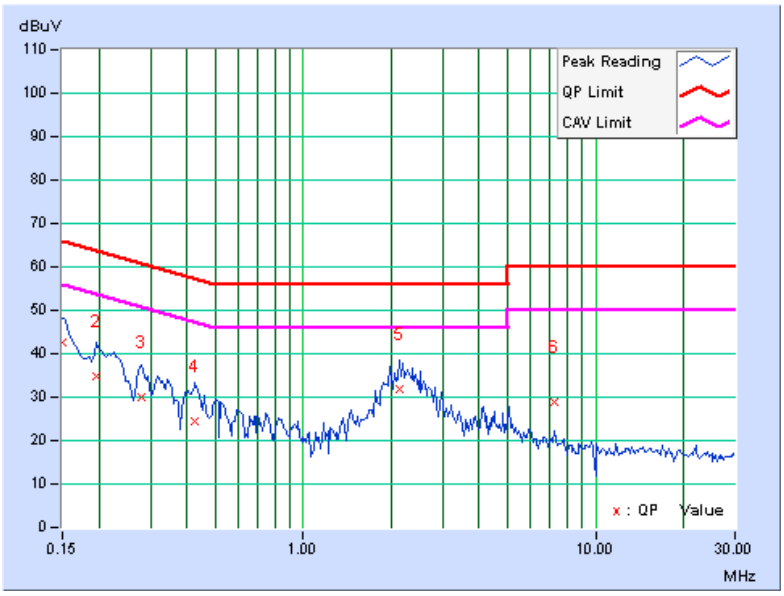
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | B2 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.150 | 0.10 | 42.54 | - | 42.64 | - | 66.00 | 56.00 | -23.36 | - |
| 2 | 0.197 | 0.10 | 34.77 | - | 34.87 | - | 63.74 | 53.74 | -28.87 | - |
| 3 | 0.279 | 0.11 | 29.81 | - | 29.92 | - | 60.85 | 50.85 | -30.93 | - |
| 4 | 0.427 | 0.12 | 24.30 | - | 24.42 | - | 57.30 | 47.30 | -32.88 | - |
| 5 | 2.148 | 0.25 | 31.56 | - | 31.81 | - | 56.00 | 46.00 | -24.19 | - |
| 6 | 7.188 | 0.45 | 28.32 | - | 28.77 | - | 60.00 | 50.00 | -31.23 | - |

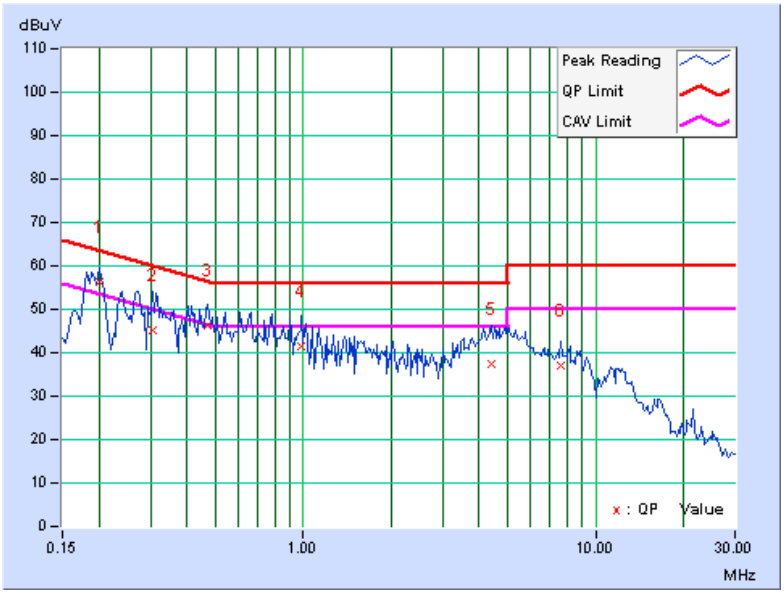
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 1 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | B3 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.201 | 0.11 | 56.05 | 45.15 | 56.16 | 45.26 | 63.58 | 53.58 | -7.42 | -8.32 |
| 2 | 0.306 | 0.12 | 44.99 | - | 45.11 | - | 60.07 | 50.07 | -14.96 | - |
| 3 | 0.470 | 0.14 | 46.26 | - | 46.40 | - | 56.51 | 46.51 | -10.11 | - |
| 4 | 0.986 | 0.18 | 41.13 | - | 41.31 | - | 56.00 | 46.00 | -14.69 | - |
| 5 | 4.395 | 0.37 | 37.14 | - | 37.51 | - | 56.00 | 46.00 | -18.49 | - |
| 6 | 7.578 | 0.52 | 36.53 | - | 37.05 | - | 60.00 | 50.00 | -22.95 | - |

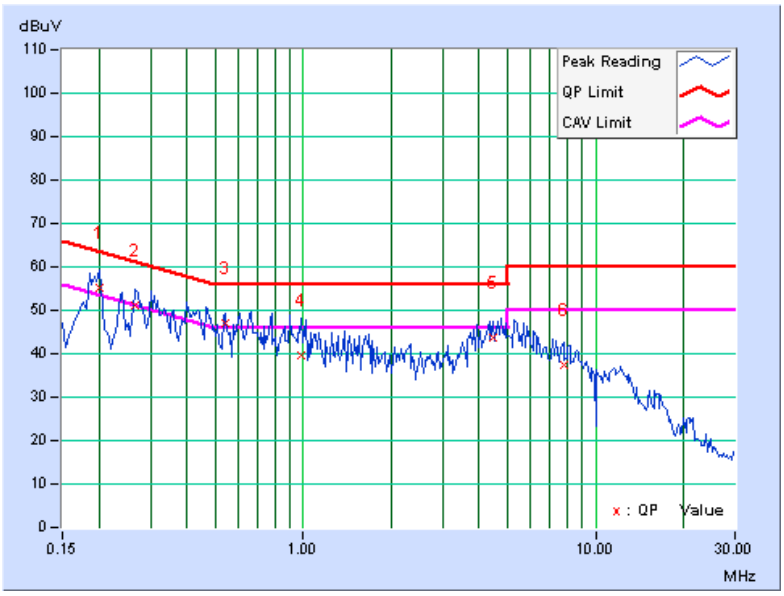
**REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



| PHASE | Line 2 | 6dB BANDWIDTH | 9kHz |
|---|---|---|---|
| TEST MODE | B3 | | |

| No | Freq. | Corr. Factor | Reading Value | | Emission Level | | Limit | | Margin | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.201 | 0.10 | 55.11 | 43.53 | 55.21 | 43.63 | 63.58 | 53.58 | -8.37 | -9.95 |
| 2 | 0.267 | 0.11 | 50.93 | - | 51.04 | - | 61.20 | 51.20 | -10.17 | - |
| 3 | 0.541 | 0.13 | 46.78 | 32.07 | 46.91 | 32.20 | 56.00 | 46.00 | -9.09 | -13.80 |
| 4 | 0.986 | 0.17 | 39.41 | - | 39.58 | - | 56.00 | 46.00 | -16.42 | - |
| 5 | 4.449 | 0.34 | 43.24 | - | 43.58 | - | 56.00 | 46.00 | -12.42 | - |
| 6 | 7.762 | 0.47 | 37.10 | - | 37.57 | - | 60.00 | 50.00 | -22.43 | - |

**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.



## 4.3 6dB BANDWIDTH MEASUREMENT

### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 4.3.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| SPECTRUM ANALYZER R&S | FSP40 | 100039 | Jan. 11, 2010 | Jan. 10, 2011 |

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

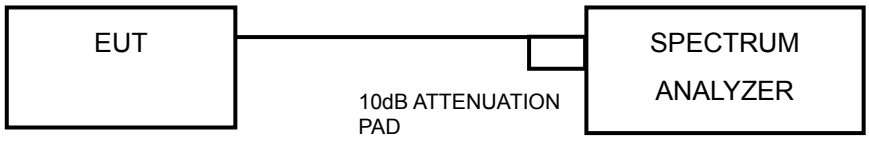
### 4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

### 4.3.5 TEST SETUP




### 4.3.6 EUT OPERATING CONDITIONS

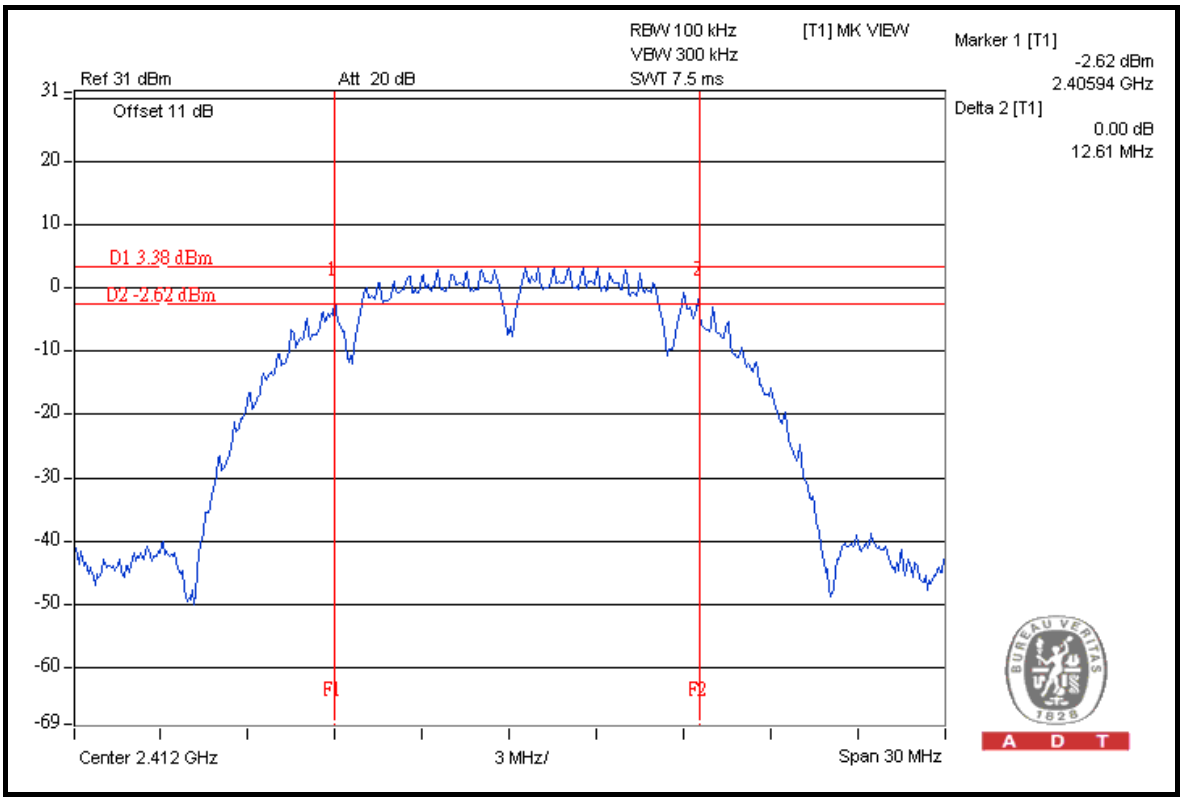
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

## 4.3.7 TEST RESULTS

**802.11b**

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | |
| 1 | 2412 | 12.61 | 12.13 | 0.5 | PASS |
| 6 | 2437 | 11.12 | 12.55 | 0.5 | PASS |
| 11 | 2462 | 12.12 | 12.10 | 0.5 | PASS |

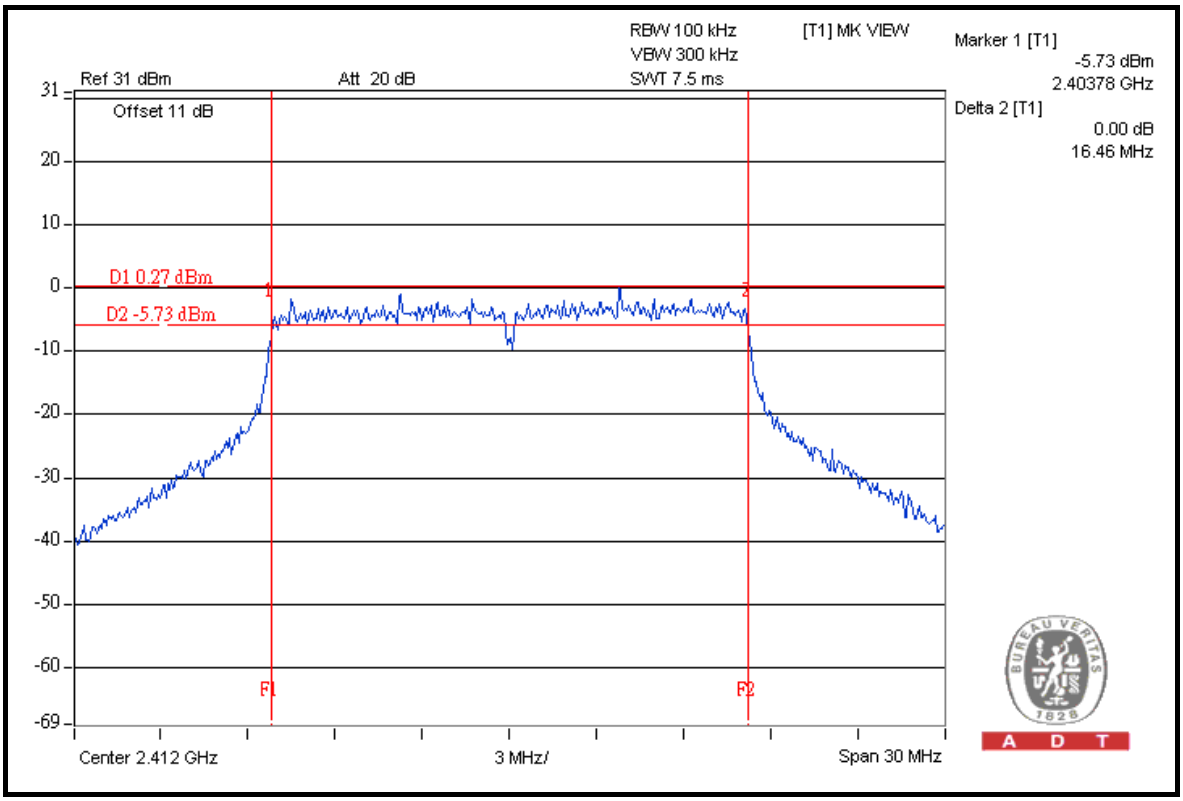
**FOR CHAIN 0: CH 1**



## 802.11g

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | |
| 1 | 2412 | 16.46 | 16.45 | 0.5 | PASS |
| 6 | 2437 | 16.41 | 16.46 | 0.5 | PASS |
| 11 | 2462 | 16.46 | 16.46 | 0.5 | PASS |

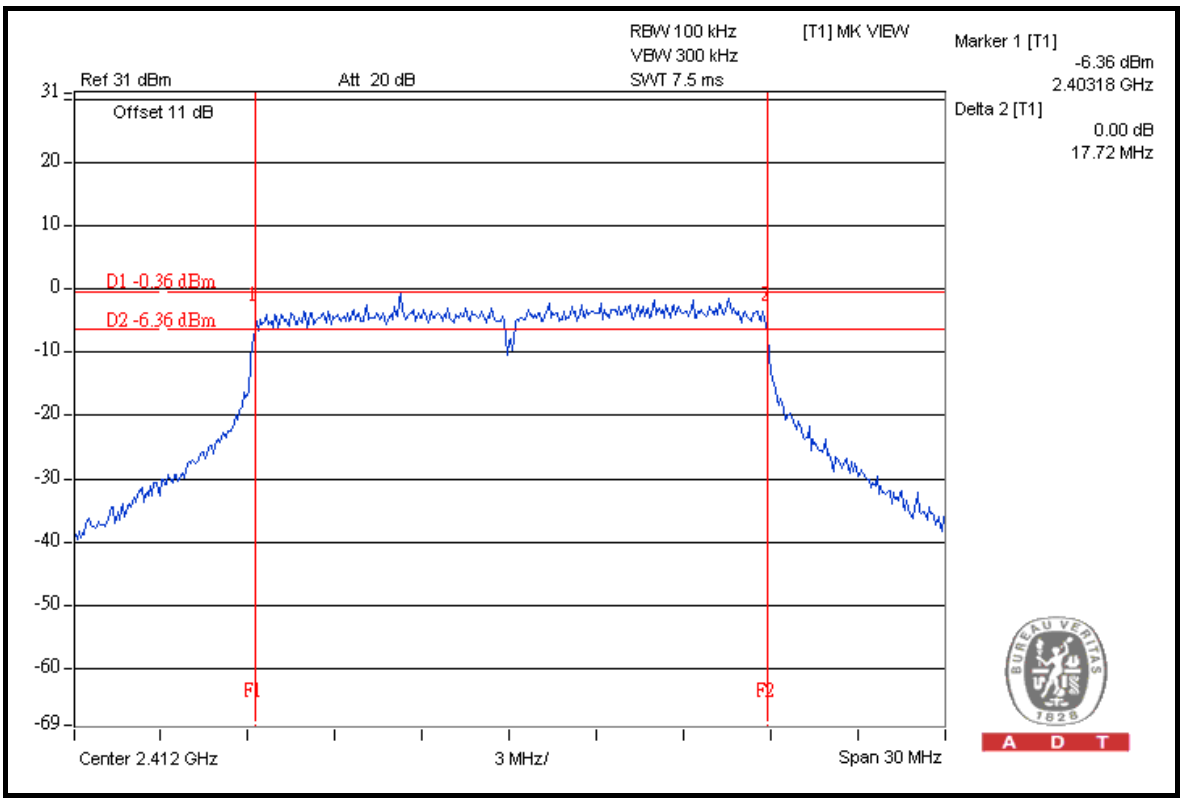
## FOR CHAIN 0: CH 1



## 802.11n (20MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | |
| 1 | 2412 | 17.63 | 17.72 | 0.5 | PASS |
| 6 | 2437 | 17.64 | 17.68 | 0.5 | PASS |
| 11 | 2462 | 17.65 | 17.69 | 0.5 | PASS |

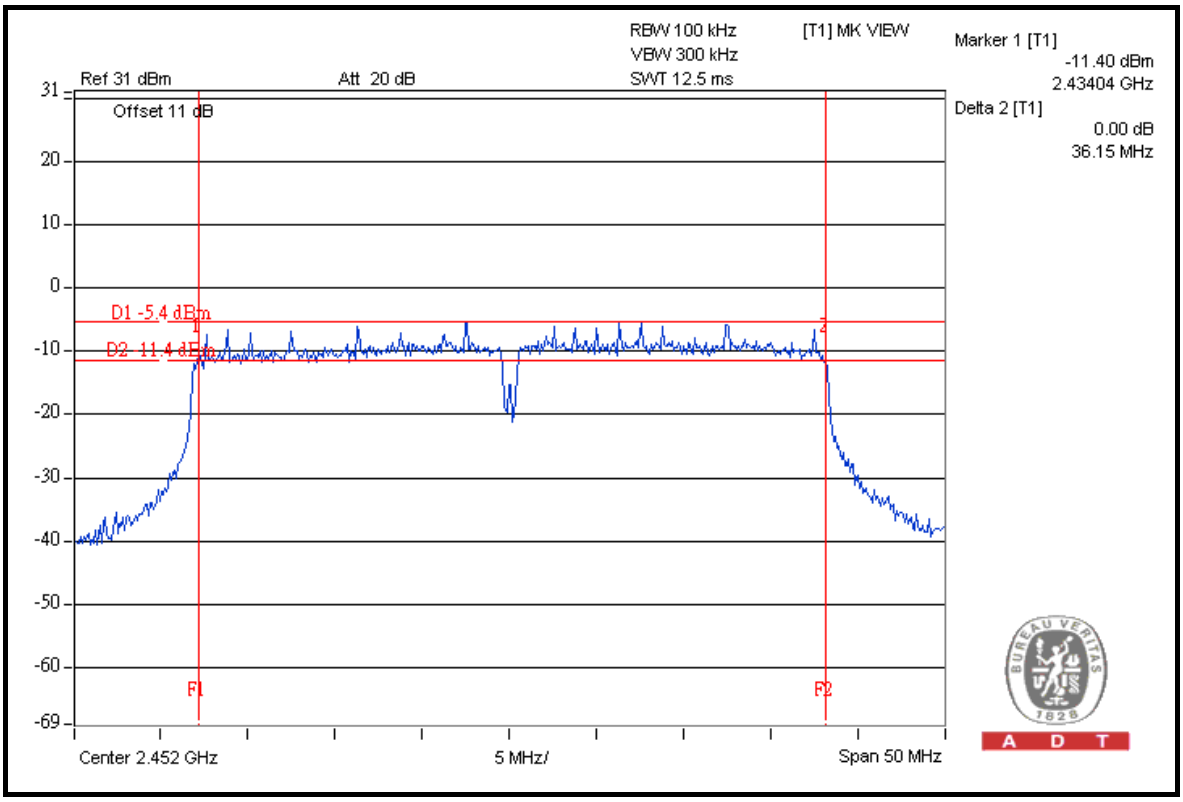
## FOR CHAIN 1: CH 1



## 802.11n (40MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | 6dB BANDWIDTH (MHz) | | MINIMUM LIMIT (MHz) | PASS / FAIL |
|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | |
| 1 | 2422 | 35.13 | 35.84 | 0.5 | PASS |
| 4 | 2437 | 36.07 | 35.86 | 0.5 | PASS |
| 7 | 2452 | 36.15 | 35.81 | 0.5 | PASS |

## FOR CHAIN 0: CH 7



## 4.4 MAXIMUM OUTPUT POWER

### 4.4.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 30dBm.

### 4.4.2 INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| SPECTRUM ANALYZER R&S | FSP40 | 100039 | Jan. 11, 2010 | Jan. 10, 2011 |

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

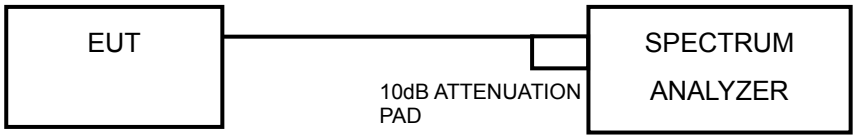
### 4.4.3 TEST PROCEDURES

a. Follow DTS measurement (Power Output Option 2), the transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer.
b. Set span to encompass the entire emission bandwidth (EBW) of the signal.
c. Set RBW = 1 MHz; VBW $\geqq$3 MHz.
d. Use sample detector mode and video trigger with the trigger level set to enable triggering only on full power pulses.
e. Trace average 100 traces in power averaging mode.
f. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
g. Record the power level.

## 4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

## 4.4.5 TEST SETUP




## 4.4.6 EUT OPERATING CONDITIONS

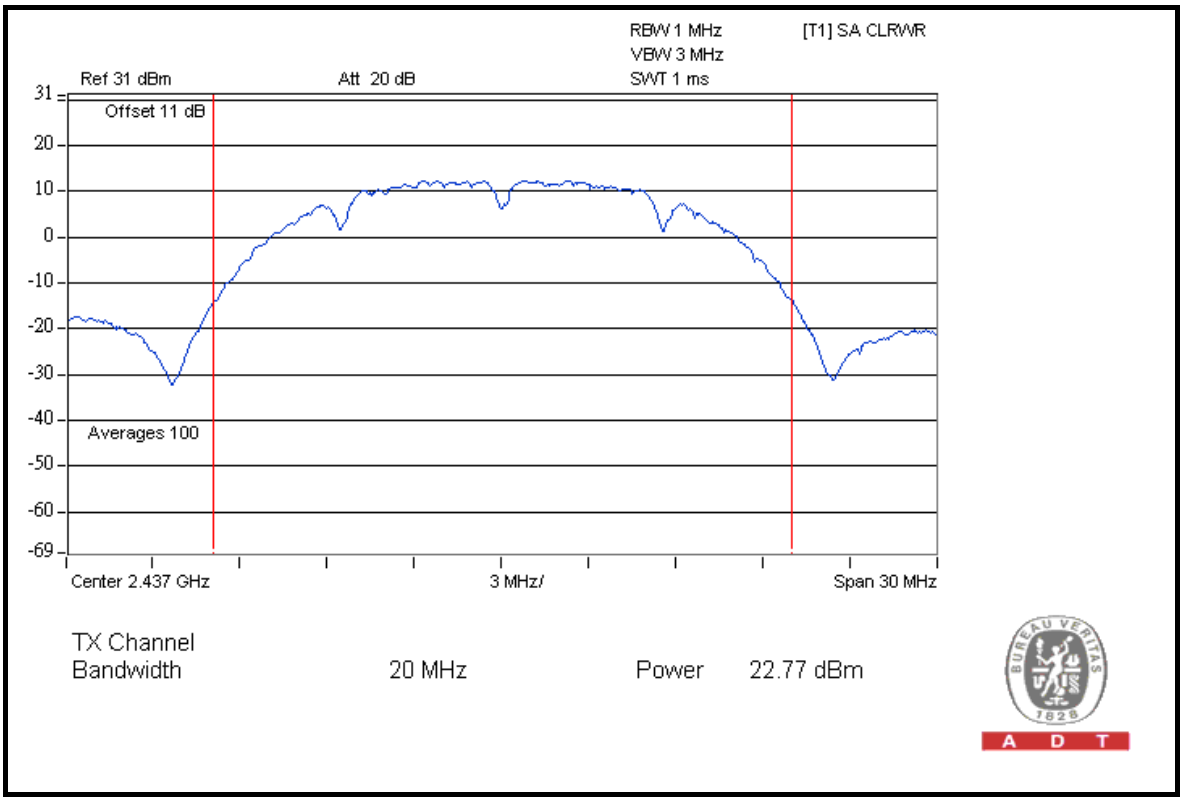
Same as Item 4.3.6.

## 4.4.7 TEST RESULTS

**802.11b**

| CHAN. | CHAN. FREQ. (MHz) | POWER OUTPUT (dBm) | | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|---|---|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | | | |
| 1 | 2412 | 15.00 | 14.82 | 62.0 | 17.9 | 30 | PASS |
| 6 | 2437 | 22.67 | 22.77 | 374.2 | 25.7 | 30 | PASS |
| 11 | 2462 | 14.77 | 14.79 | 60.1 | 17.8 | 30 | PASS |

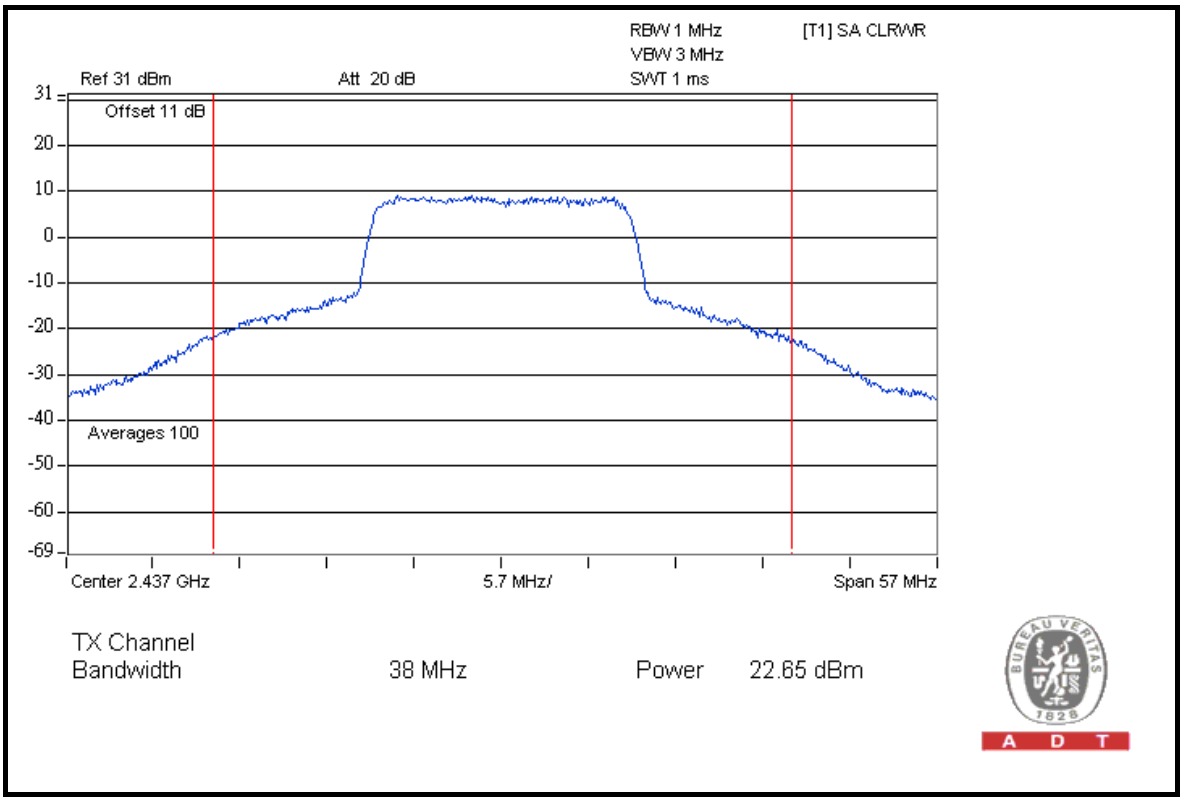
**FOR CHAIN 1: CH 6**



## 802.11g

| CHAN. | CHAN. FREQ. (MHz) | POWER OUTPUT (dBm) | | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|---|---|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | | | |
| 1 | 2412 | 12.98 | 13.18 | 40.7 | 16.1 | 30 | PASS |
| 6 | 2437 | 22.65 | 22.64 | 367.7 | 25.7 | 30 | PASS |
| 11 | 2462 | 13.98 | 14.04 | 50.4 | 17.0 | 30 | PASS |

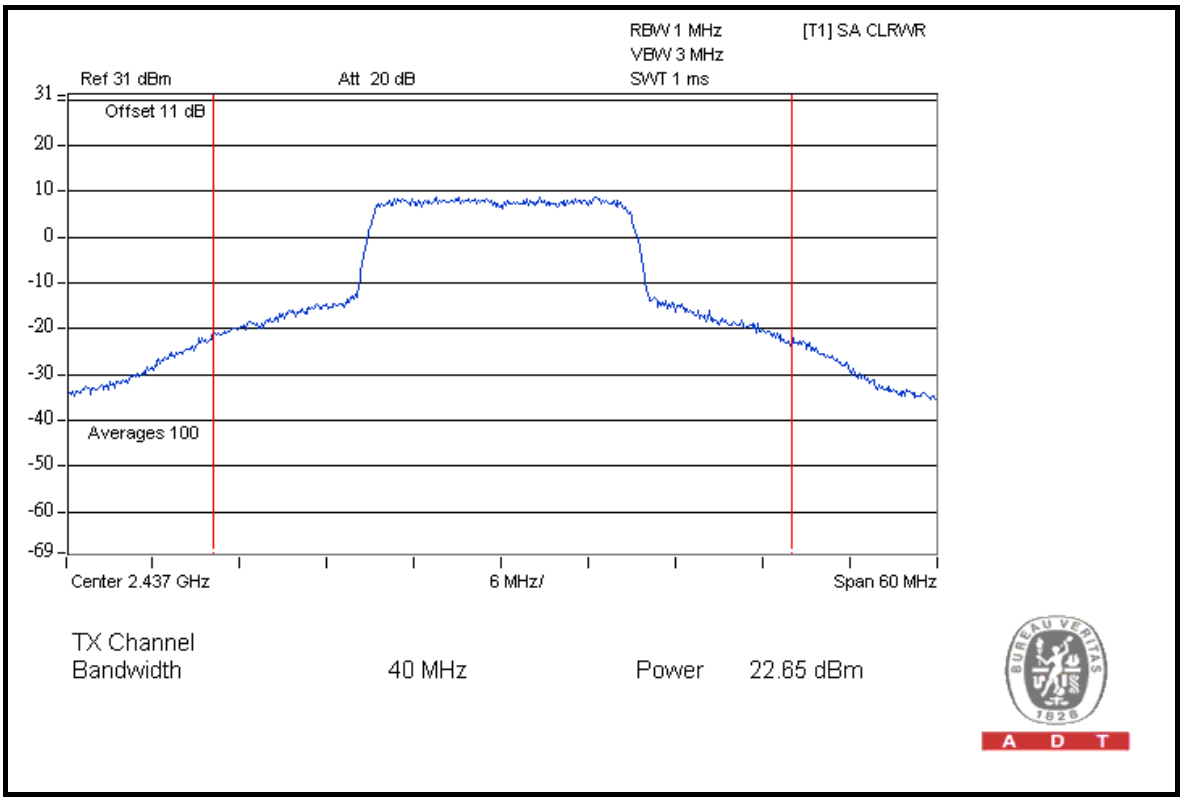
## FOR CHAIN 0: CH 6



## 802.11n (20MHz)

| CHAN. | CHAN. FREQ. (MHz) | POWER OUTPUT (dBm) | | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|---|---|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | | | |
| 1 | 2412 | 12.99 | 13.15 | 40.6 | 16.1 | 30 | PASS |
| 6 | 2437 | 22.65 | 22.65 | 368.2 | 25.7 | 30 | PASS |
| 11 | 2462 | 13.11 | 13.09 | 40.8 | 16.1 | 30 | PASS |

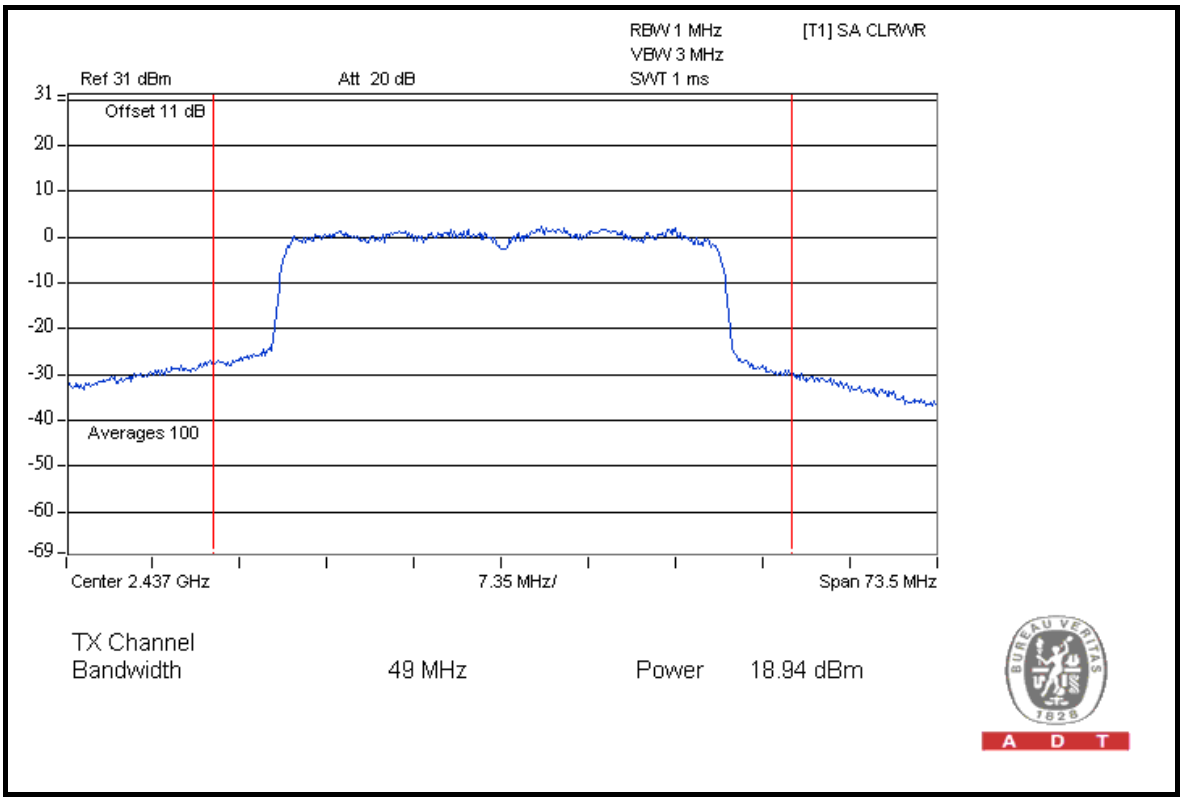
## FOR CHAIN 0: CH 6



## 802.11n (40MHz)

| CHAN. | CHAN. FREQ. (MHz) | POWER OUTPUT (dBm) | | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|---|---|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | | | |
| 1 | 2422 | 9.78 | 9.77 | 19.0 | 12.8 | 30 | PASS |
| 4 | 2437 | 18.93 | 18.94 | 156.5 | 21.9 | 30 | PASS |
| 7 | 2452 | 9.56 | 9.53 | 18.0 | 12.6 | 30 | PASS |

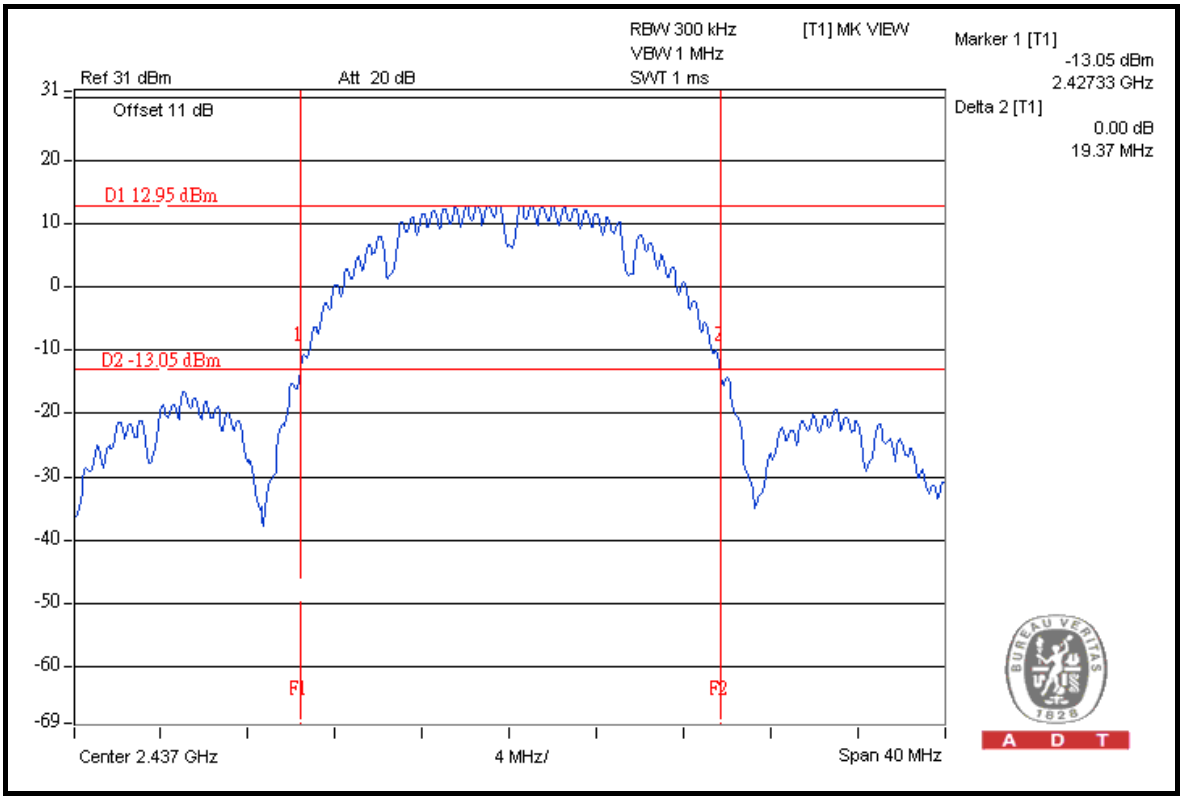
## FOR CHAIN 1: CH 4



## 26dB OCCUPIED BANDWIDTH: 802.11b

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc OCCUPIED BANDWIDTH (MHz) | | PASS / FAIL |
|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | |
| 1 | 2412 | 19.33 | 19.33 | PASS |
| 6 | 2437 | 19.37 | 19.36 | PASS |
| 11 | 2462 | 19.34 | 19.35 | PASS |

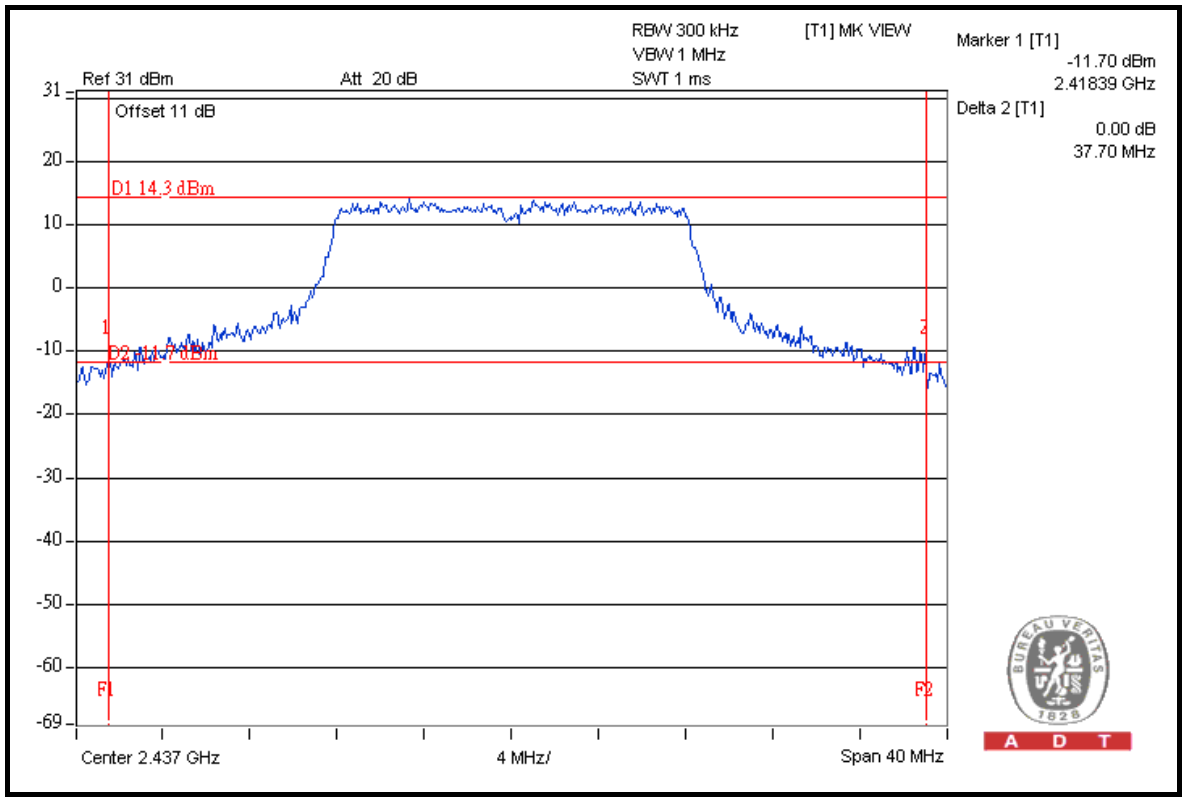
## FOR CHAIN 0: CH 6



## 802.11g

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc OCCUPIED BANDWIDTH (MHz) | | PASS / FAIL |
|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | |
| 1 | 2412 | 24.95 | 24.68 | PASS |
| 6 | 2437 | 37.70 | 37.02 | PASS |
| 11 | 2462 | 24.43 | 24.93 | PASS |

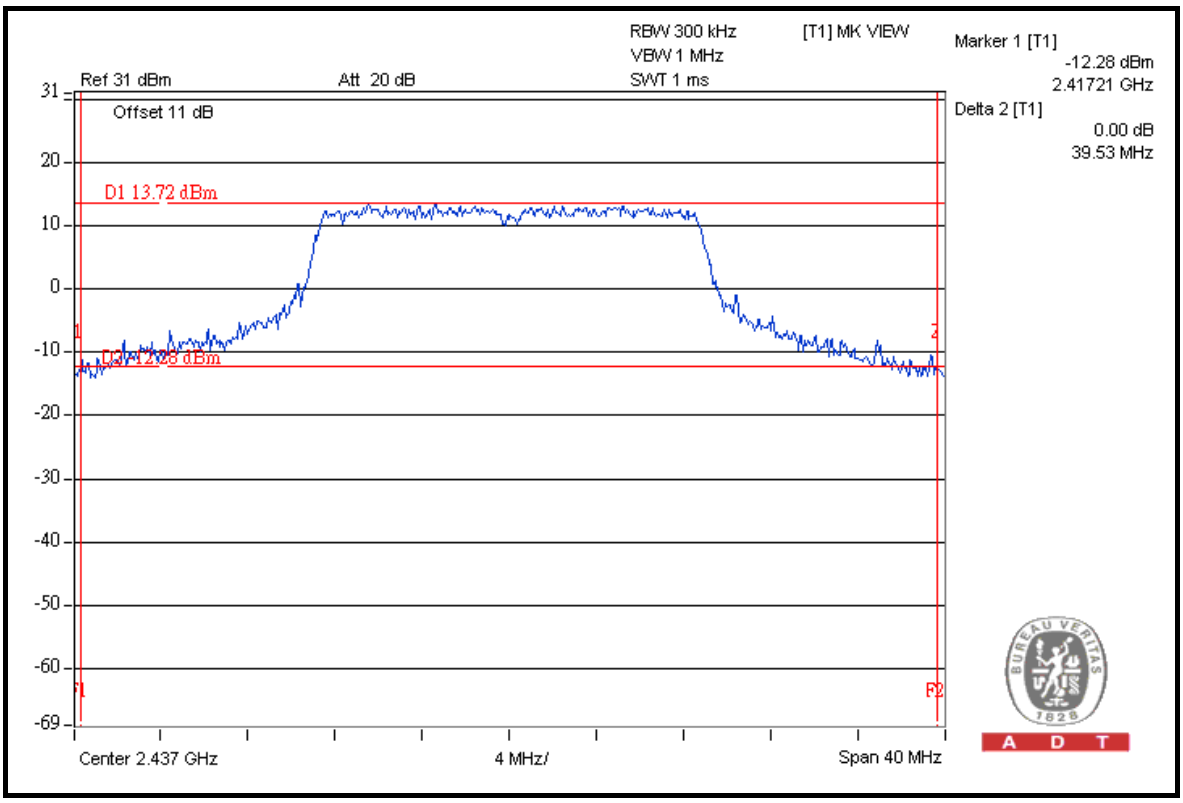
## FOR CHAIN 0: CH 6



### 802.11n (20MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc OCCUPIED BANDWIDTH (MHz) | | PASS / FAIL |
|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | |
| 1 | 2412 | 25.75 | 25.69 | PASS |
| 6 | 2437 | 39.53 | 39.44 | PASS |
| 11 | 2462 | 25.65 | 25.77 | PASS |

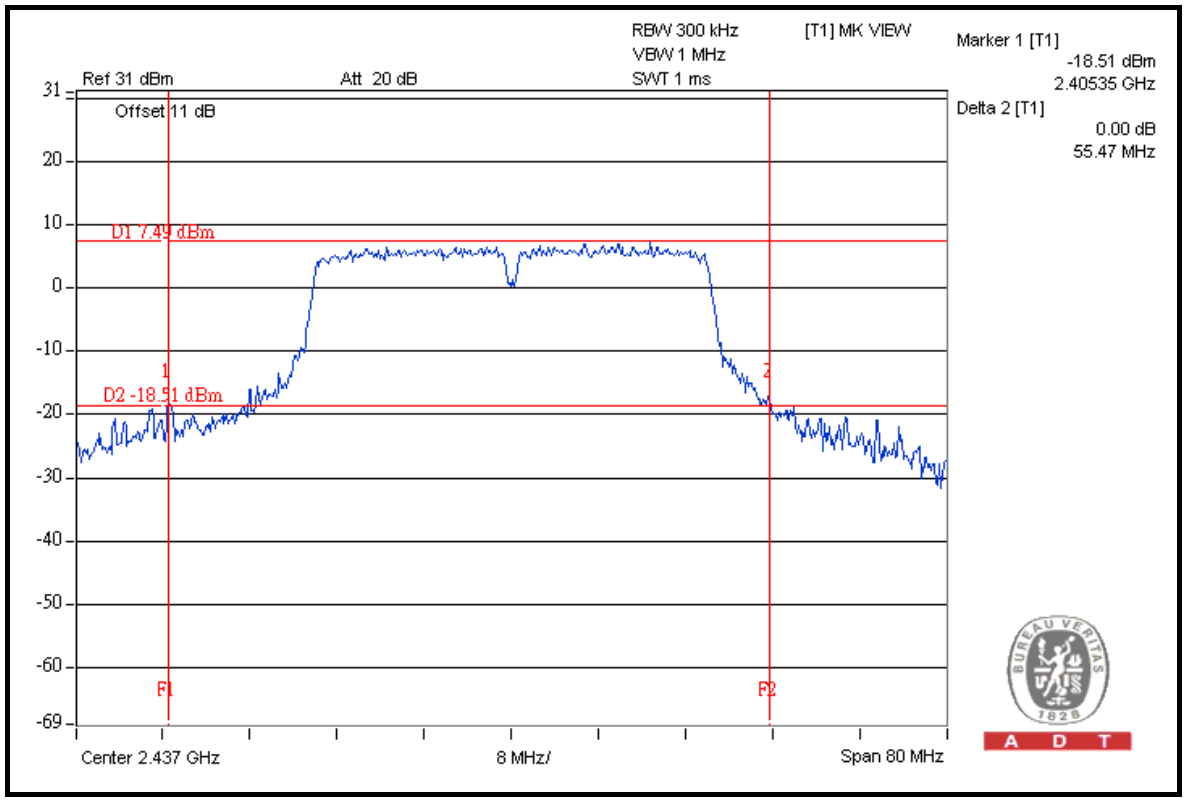
### FOR CHAIN 0: CH 6



### 802.11n (40MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc OCCUPIED BANDWIDTH (MHz) | | PASS / FAIL |
|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | |
| 1 | 2422 | 45.95 | 47.39 | PASS |
| 4 | 2437 | 55.47 | 48.80 | PASS |
| 7 | 2452 | 48.48 | 48.59 | PASS |

### FOR CHAIN 0: CH 4



## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

### 4.5.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| SPECTRUM ANALYZER R&S | FSP40 | 100039 | Jan. 11, 2010 | Jan. 10, 2011 |

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

### 4.5.3 TEST PROCEDURE

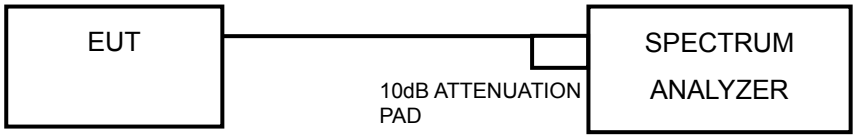
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 10kHz VBW, set sweep time = Auto , detector type =Peak . Trace average 100 traces in power averaging mode. The power spectral density was measured and recorded.

(Refer to PSD option2 of Measurement of Digital Transmission Systems Operating under Section 15.247)

## 4.5.4 DEVIATION FROM TEST STANDARD

No deviation.

## 4.5.5 TEST SETUP




## 4.5.6 EUT OPERATING CONDITION

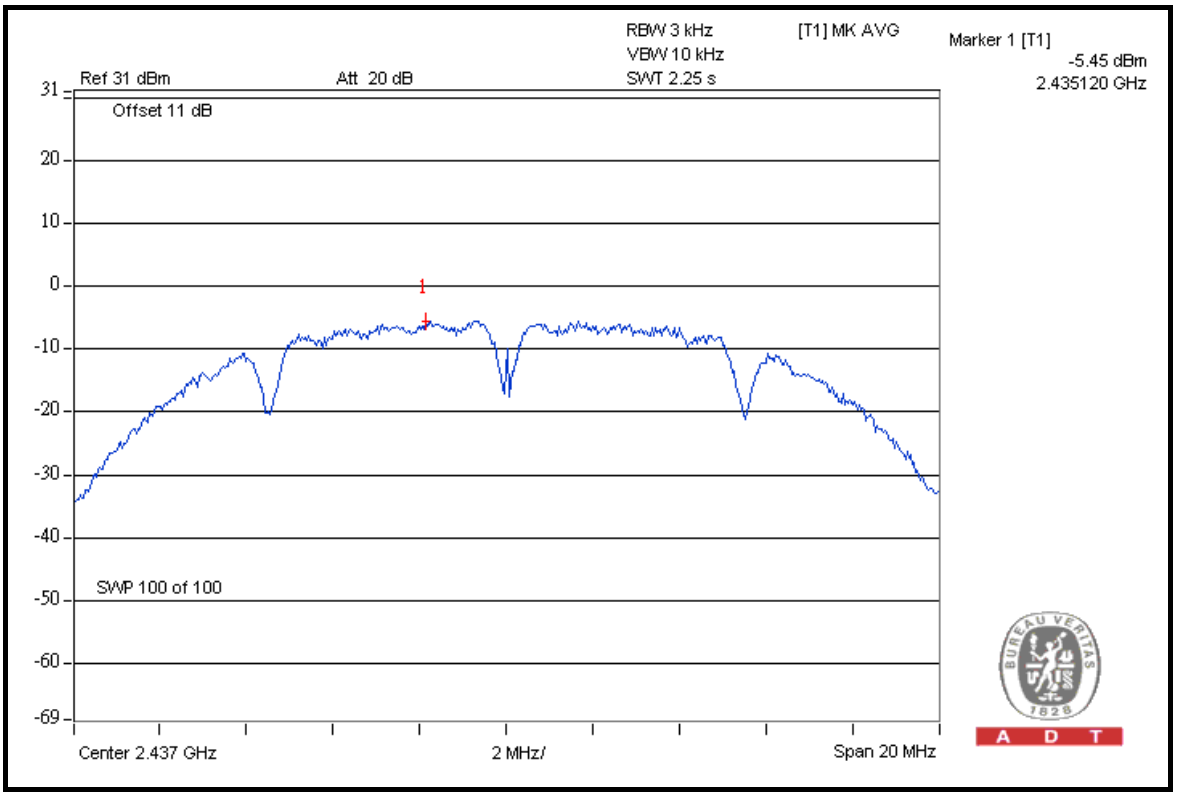
Same as Item 4.3.6

## 4.5.7 TEST RESULTS

**TEST MODE A1**
**802.11b**

| CHAN. | CHAN. FREQ. (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS / FAIL |
|---|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | | |
| 1 | 2412 | -12.69 | -12.95 | -9.79 | 8 | PASS |
| 6 | 2437 | -5.45 | -5.76 | -2.59 | 8 | PASS |
| 11 | 2462 | -12.56 | -12.76 | -9.67 | 8 | PASS |

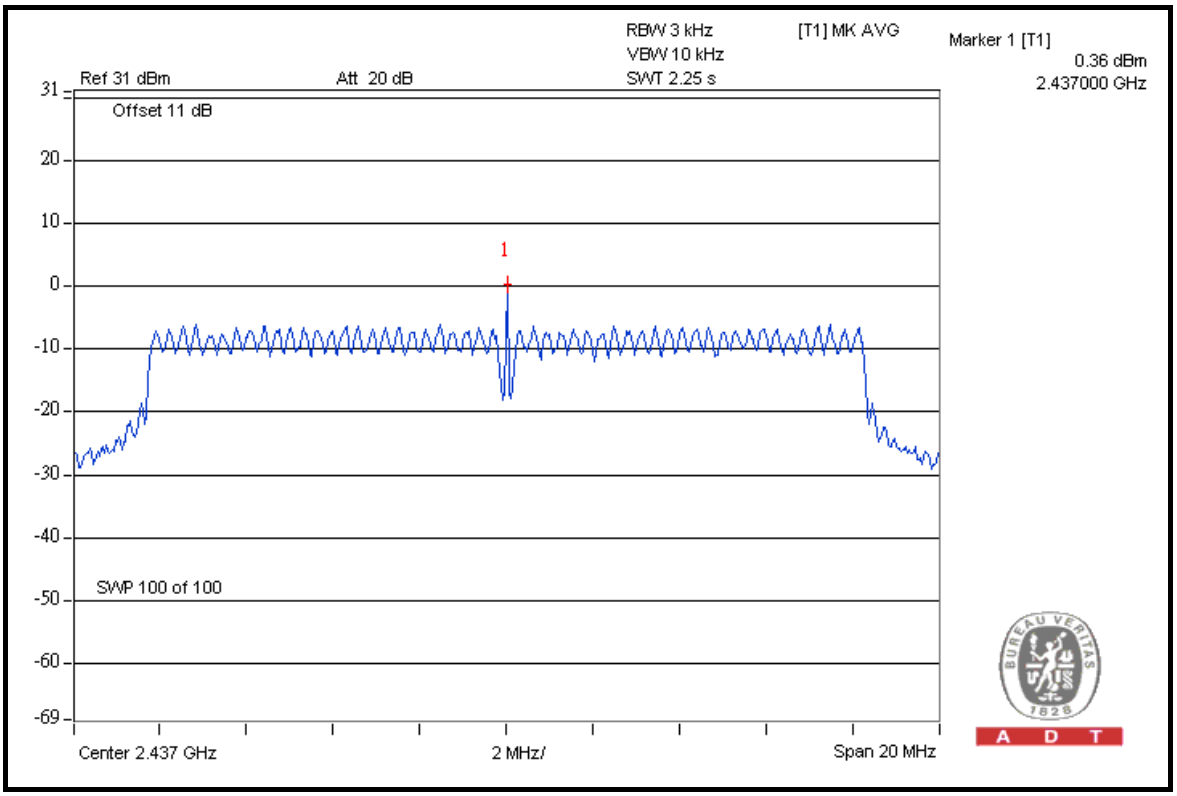
**FOR CHAIN 0: CH 6**



## 802.11g

| CHAN. | CHAN. FREQ. (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS / FAIL |
|---|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | | |
| 1 | 2412 | -9.96 | -10.45 | -7.19 | 8 | PASS |
| 6 | 2437 | 0.17 | 0.36 | 3.28 | 8 | PASS |
| 11 | 2462 | -14.45 | -14.61 | -11.55 | 8 | PASS |

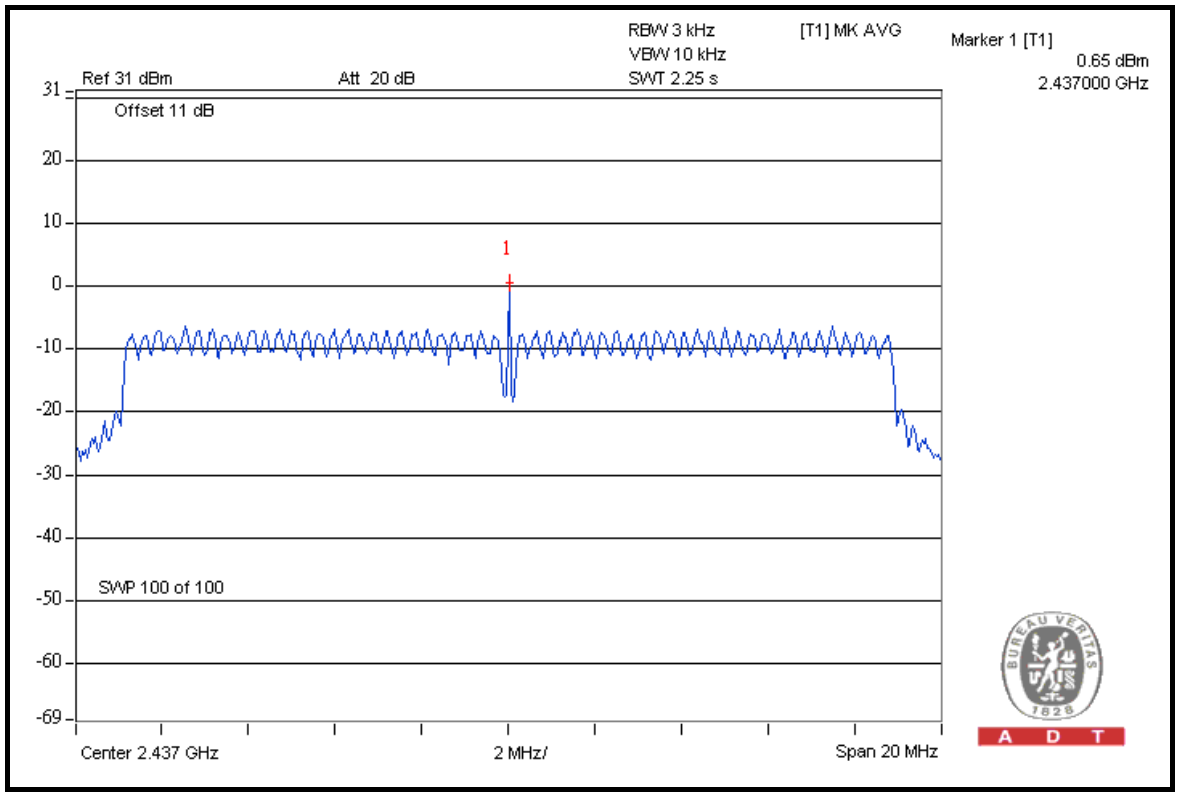
## FOR CHAIN 1: CH 6



### 802.11n (20MHz)

| CHAN. | CHAN. FREQ. (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS / FAIL |
|---|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | | |
| 1 | 2412 | -10.81 | -9.45 | -7.08 | 8 | PASS |
| 6 | 2437 | 0.65 | 0.45 | 3.56 | 8 | PASS |
| 11 | 2462 | -12.31 | -11.39 | -8.83 | 8 | PASS |

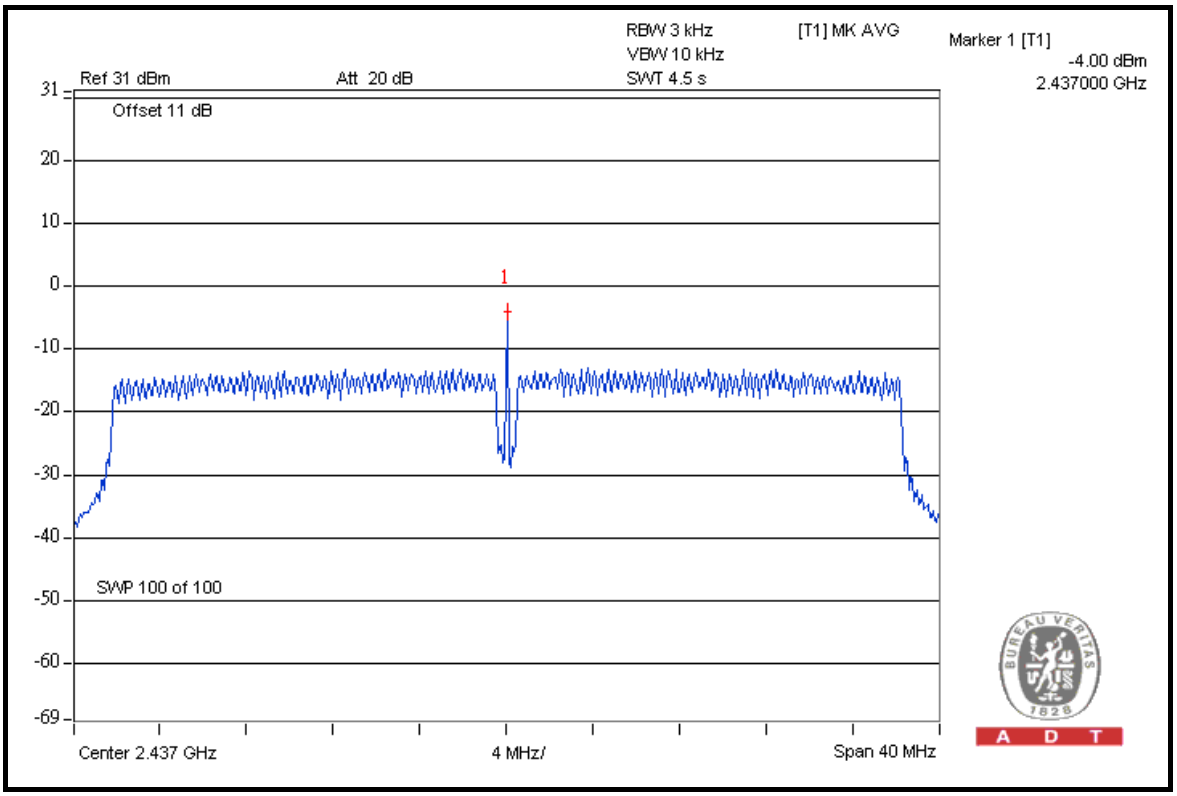
### FOR CHAIN 0: CH 6



## 802.11n (40MHz)

| CHAN. | CHAN. FREQ. (MHz) | RF POWER LEVEL IN 3kHz BW (dBm) | | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS / FAIL |
|---|---|---|---|---|---|---|
| | | CHAIN 0 | CHAIN 1 | | | |
| 1 | 2422 | -14.42 | -14.19 | -11.31 | 8 | PASS |
| 4 | 2437 | -4.00 | -5.05 | -1.48 | 8 | PASS |
| 7 | 2452 | -17.63 | -17.38 | -14.44 | 8 | PASS |

## FOR CHAIN 0: CH 4



## 4.6 BAND EDGES MEASUREMENT

### 4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below 30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | DATE OF CALIBRATION | DUE DATE OF CALIBRATION |
|---|---|---|---|---|
| Test Receiver ROHDE & SCHWARZ | ESIB7 | 100188 | Dec. 21, 2009 | Dec. 20, 2010 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100041 | Jul. 09, 2010 | Jul. 08, 2011 |
| BILOG Antenna SCHWARZBECK | VULB9168 | 9168-156 | Apr. 30, 2010 | Apr. 29, 2011 |
| HORN Antenna SCHWARZBECK | BBHA 9120 D | 9120D-209 | Aug. 02, 2010 | Aug. 01, 2011 |
| HORN Antenna SCHWARZBECK | BBHA 9170 | BBHA9170242 | Dec. 25, 2009 | Dec. 24, 2010 |
| Preamplifier Agilent | 8449B | 3008A01910 | Sep. 11, 2009 | Sep. 10, 2010 |
| Preamplifier Agilent | 8447D | 2944A10638 | Dec. 21, 2009 | Dec. 20, 2010 |
| RF signal cable HUBER+SUHNNER | SUCOFLEX 104 | 218190/4 231241/4 | May 14, 2010 | May 13, 2011 |
| RF signal cable Worken | 8D-FB | Cable-HYCH9-01 | Aug. 20, 2010 | Aug. 19, 2011 |
| Software | ADT_Radiated_ V7.6.15.9.2 | NA | NA | NA |
| Antenna Tower EMCO | 2070/2080 | 512.835.4684 | NA | NA |
| Turn Table EMCO | 2087-2.03 | NA | NA | NA |
| Antenna Tower &Turn Table Controller EMCO | 2090 | NA | NA | NA |

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

### 4.6.3 TEST PROCEDURE

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = 100kHz, VBW = 300kHz) are attached on the following pages.

**NOTE:** The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation.

### 4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6.

## 4.6.6 TEST RESULTS

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement in part 15.247(d).

### TEST MODE A1

### 802.11b

**RESTRICT BAND (2310 ~ 2390 MHz)**

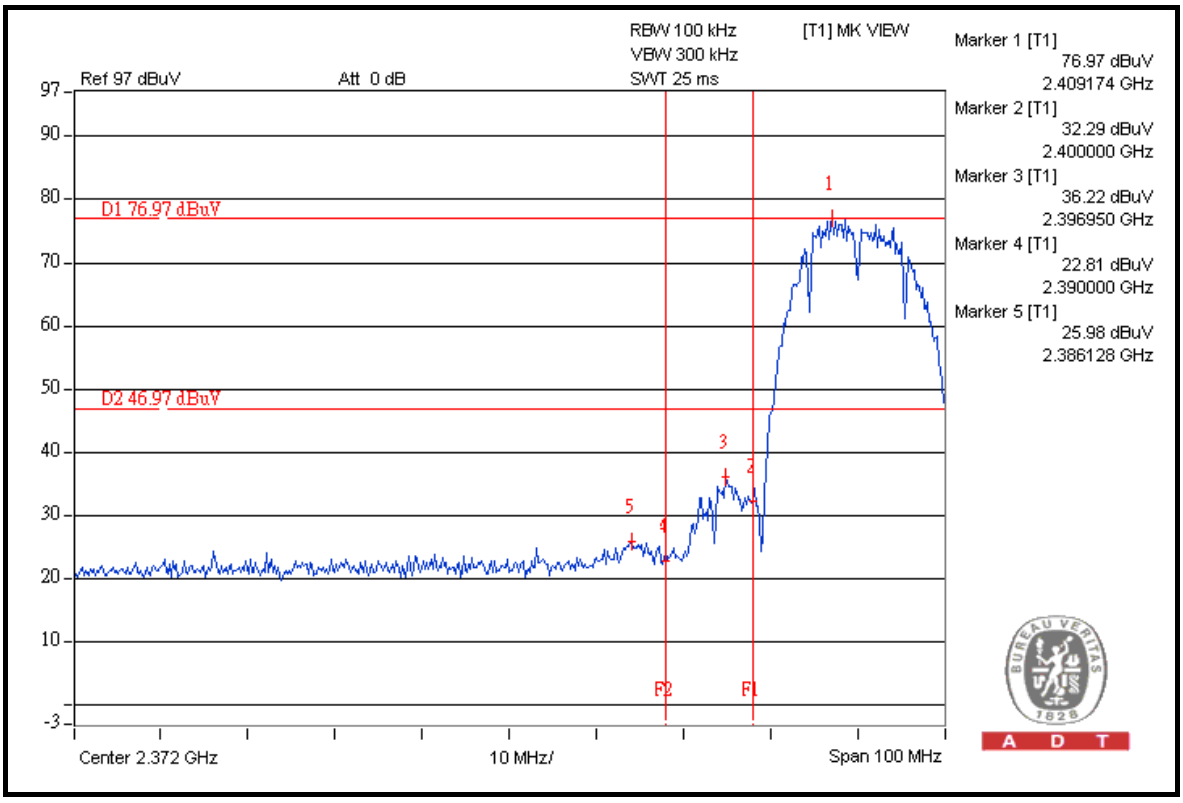
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2412.00 (PK) | 103.9 | 50.99 | 52.91 | 74.00 |
| 2412.00 (AV) | 100.4 | 54.07 | 46.33 | 54.00 |

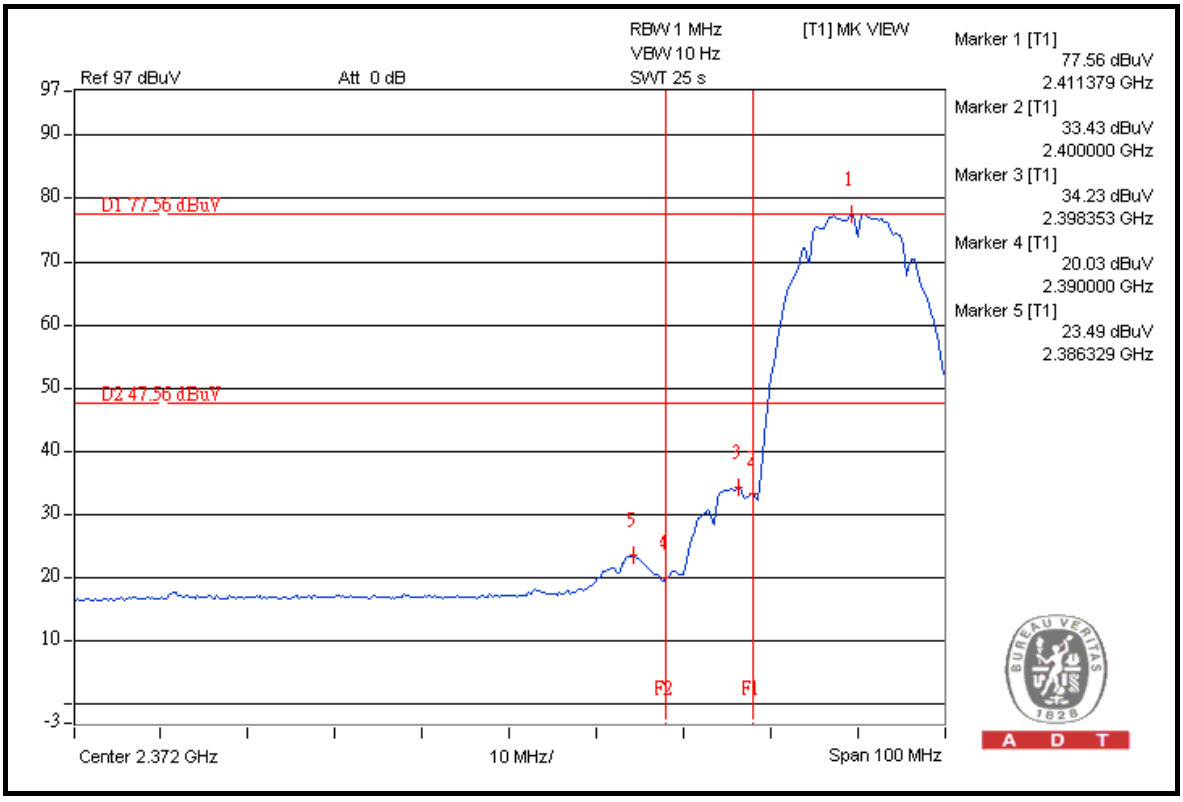
**RESTRICT BAND (2483.5 ~ 2500 MHz)**

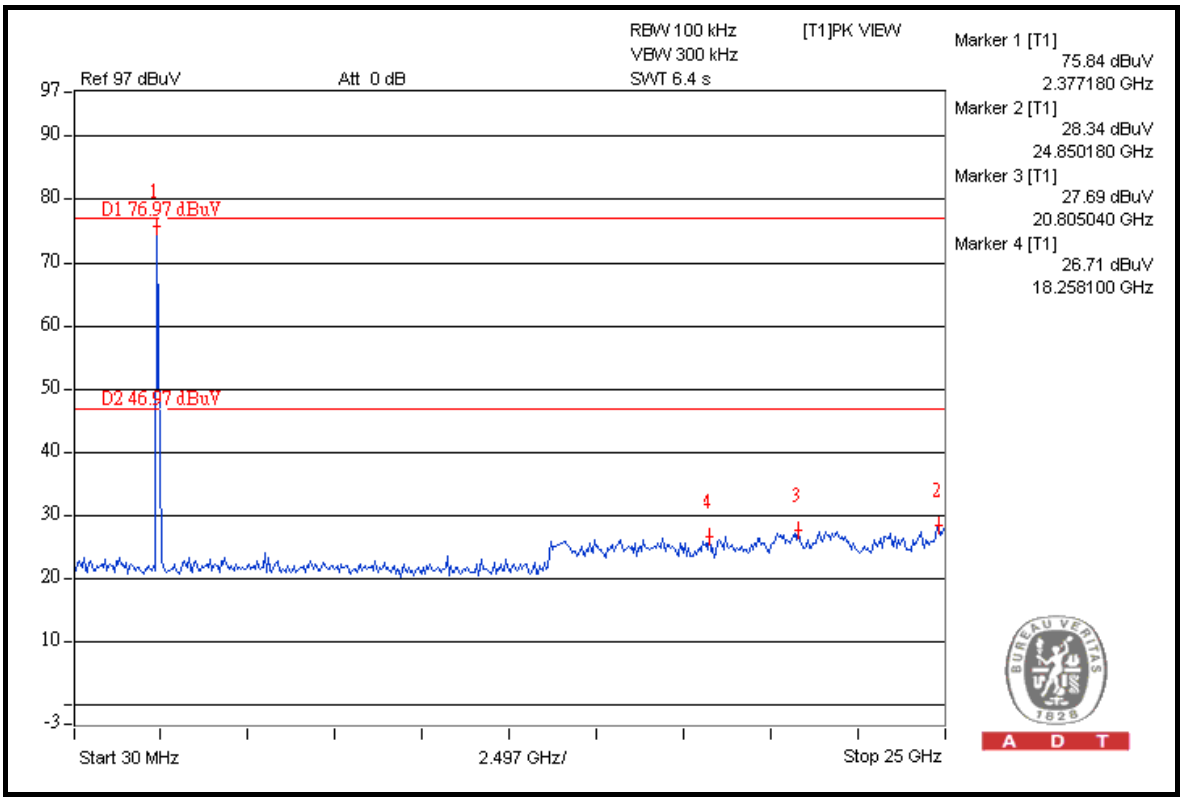
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2462.00 (PK) | 104.3 | 48.90 | 55.40 | 74.00 |
| 2462.00 (AV) | 100.6 | 49.94 | 50.06 | 54.00 |

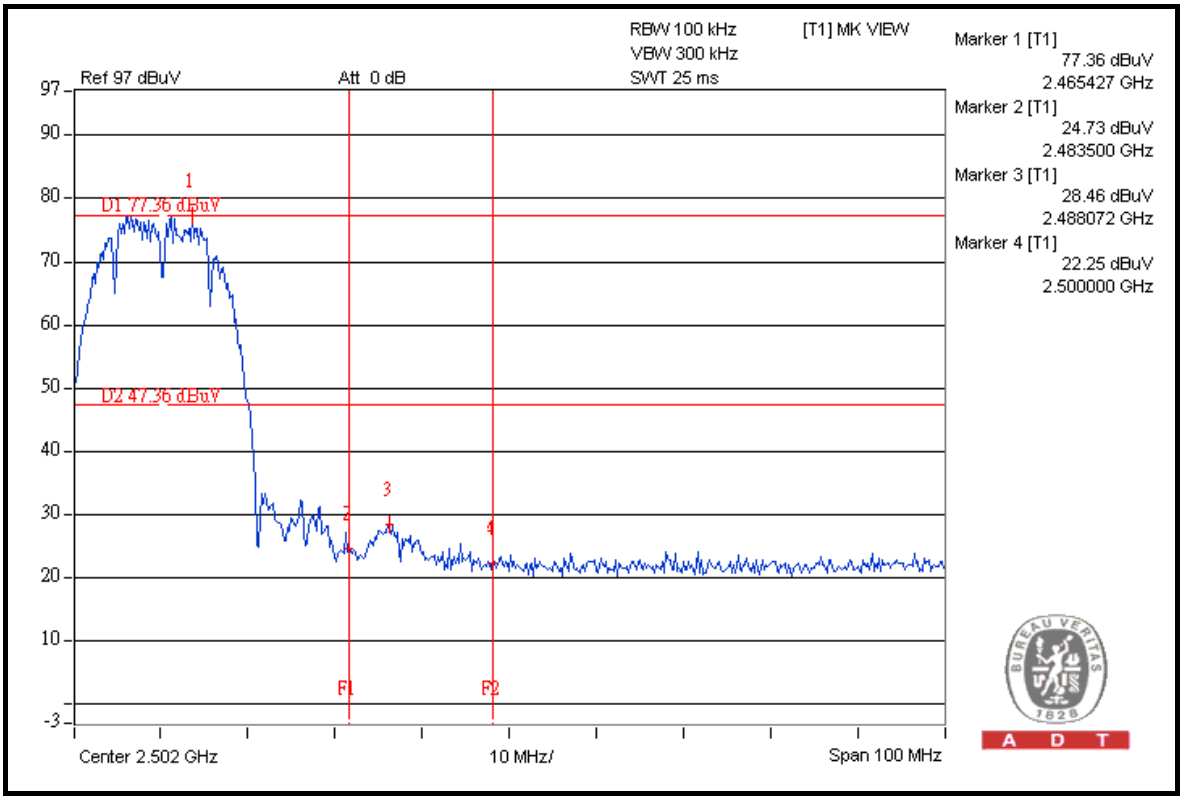
**NOTE:**

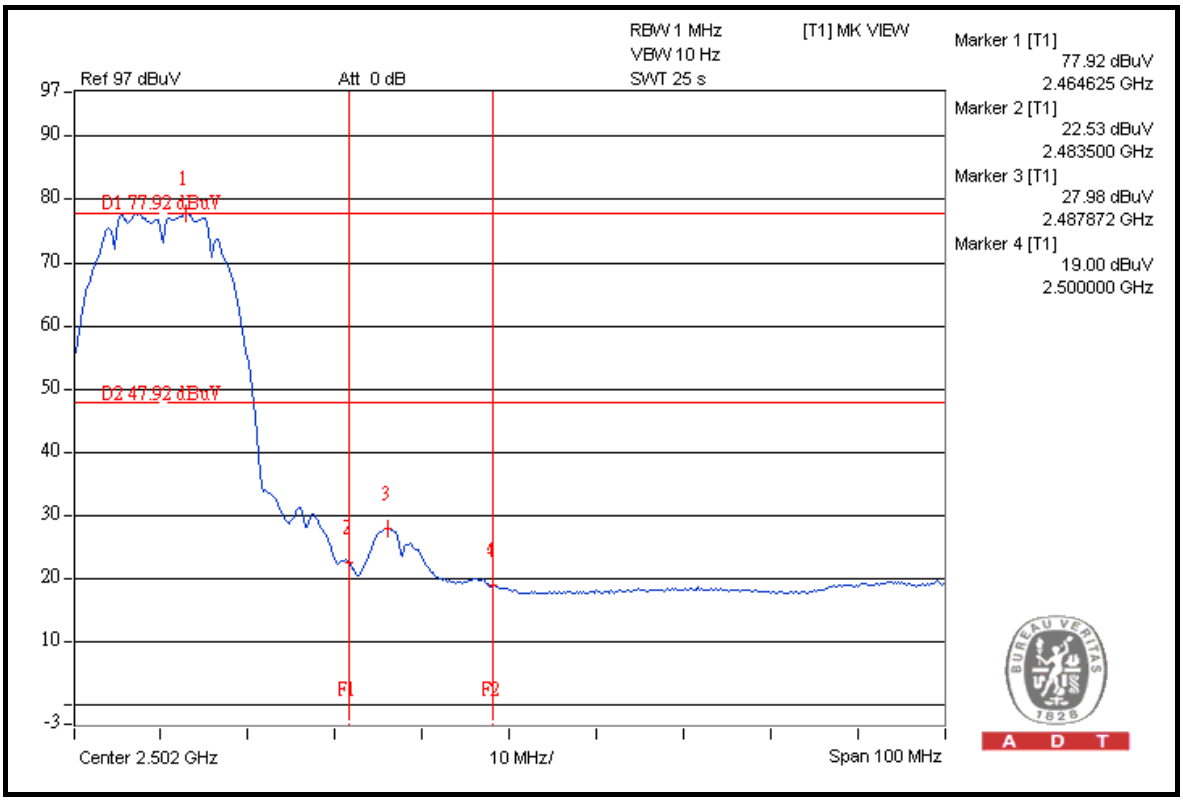
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

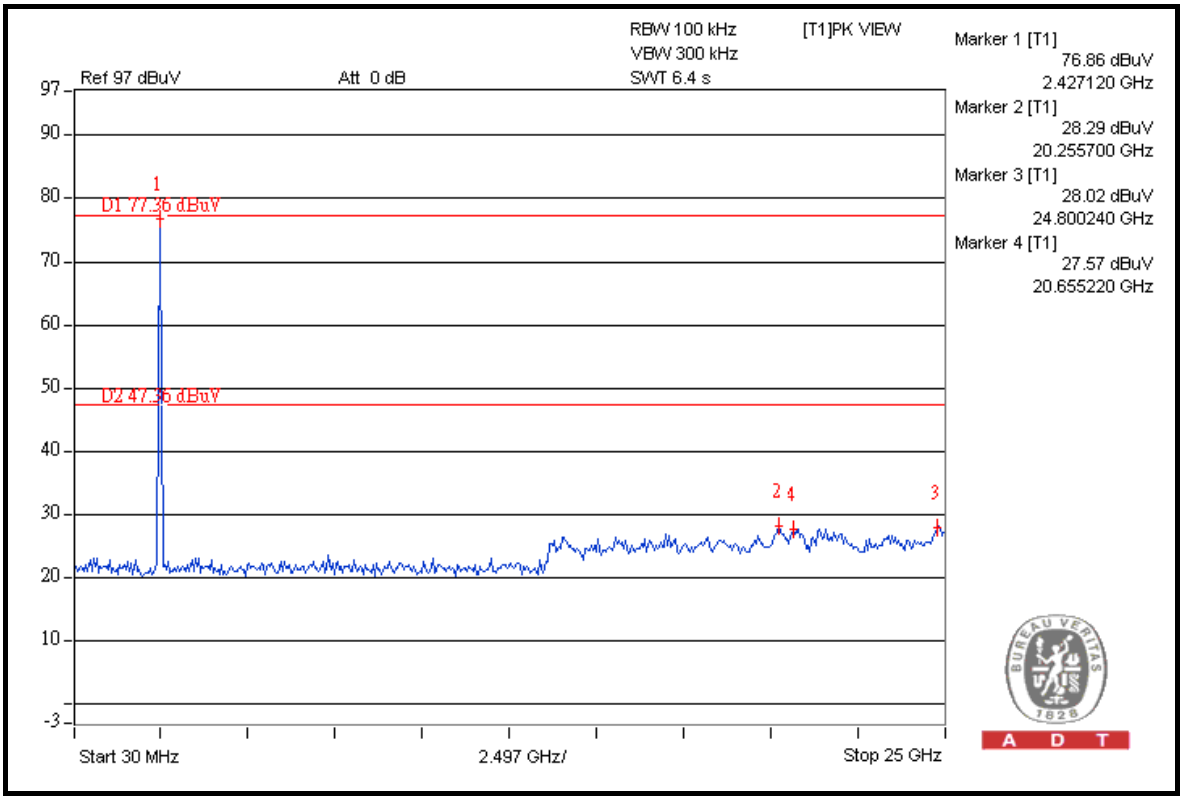

RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 76.97 dBuV
D2 46.97 dBuV
Marker 1 [T1]
76.97 dBuV
2.409174 GHz
Marker 2 [T1]
32.29 dBuV
2.400000 GHz
Marker 3 [T1]
36.22 dBuV
2.396950 GHz
Marker 4 [T1]
22.81 dBuV
2.390000 GHz
Marker 5 [T1]
25.98 dBuV
2.386128 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 77.56 dBuV
D2 47.56 dBuV
Marker 1 [T1]
77.56 dBuV
2.411379 GHz
Marker 2 [T1]
33.43 dBuV
2.400000 GHz
Marker 3 [T1]
34.23 dBuV
2.398353 GHz
Marker 4 [T1]
20.03 dBuV
2.390000 GHz
Marker 5 [T1]
23.49 dBuV
2.386329 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
D1 76.97 dBuV
D2 46.97 dBuV
Marker 1 [T1]
75.84 dBuV
2.377180 GHz
Marker 2 [T1]
28.34 dBuV
24.850180 GHz
Marker 3 [T1]
27.69 dBuV
20.805040 GHz
Marker 4 [T1]
26.71 dBuV
18.258100 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 77.36 dBuV
D2 47.36 dBuV
Marker 1 [T1]
77.36 dBuV
2.465427 GHz
Marker 2 [T1]
24.73 dBuV
2.483500 GHz
Marker 3 [T1]
28.46 dBuV
2.488072 GHz
Marker 4 [T1]
22.25 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
77.92 dBuV
2.464625 GHz
Marker 2 [T1]
22.53 dBuV
2.483500 GHz
Marker 3 [T1]
27.98 dBuV
2.487872 GHz
Marker 4 [T1]
19.00 dBuV
2.500000 GHz
D1 77.92 dBuV
D2 47.92 dBuV
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
76.86 dBuV
2.427120 GHz
Marker 2 [T1]
28.29 dBuV
20.255700 GHz
Marker 3 [T1]
28.02 dBuV
24.800240 GHz
Marker 4 [T1]
27.57 dBuV
20.655220 GHz
D1 77.36 dBuV
D2 47.36 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

## 802.11g

**RESTRICT BAND (2310 ~ 2390 MHz)**

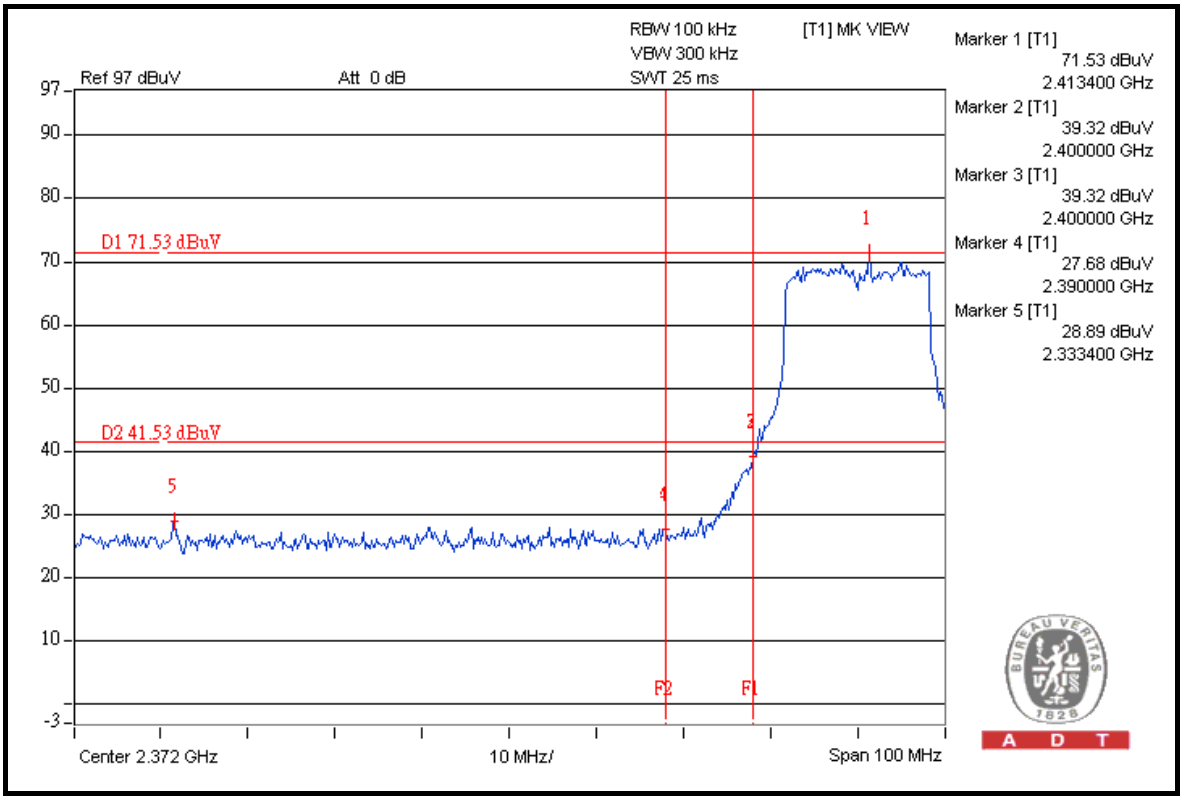
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2412.00 (PK) | 105.5 | 42.64 | 62.86 | 74.00 |
| 2412.00 (AV) | 94.3 | 48.52 | 45.78 | 54.00 |

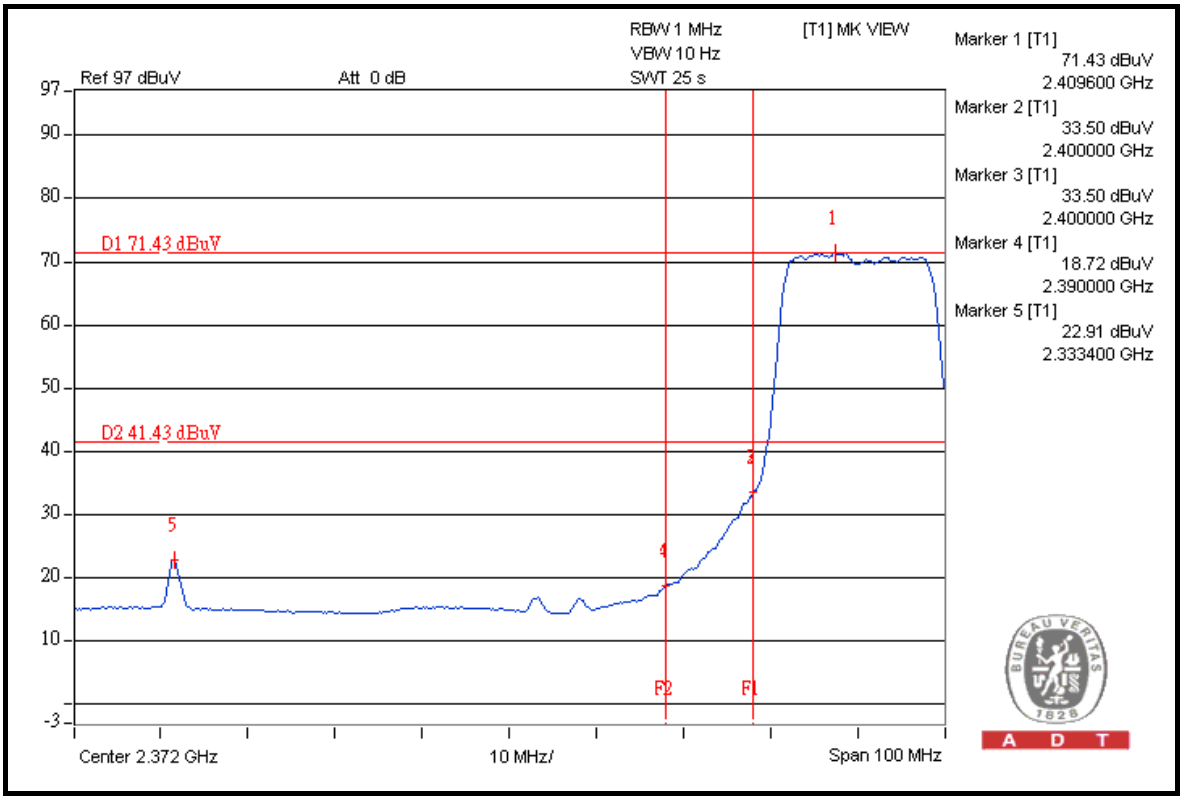
**RESTRICT BAND (2483.5 ~ 2500 MHz)**

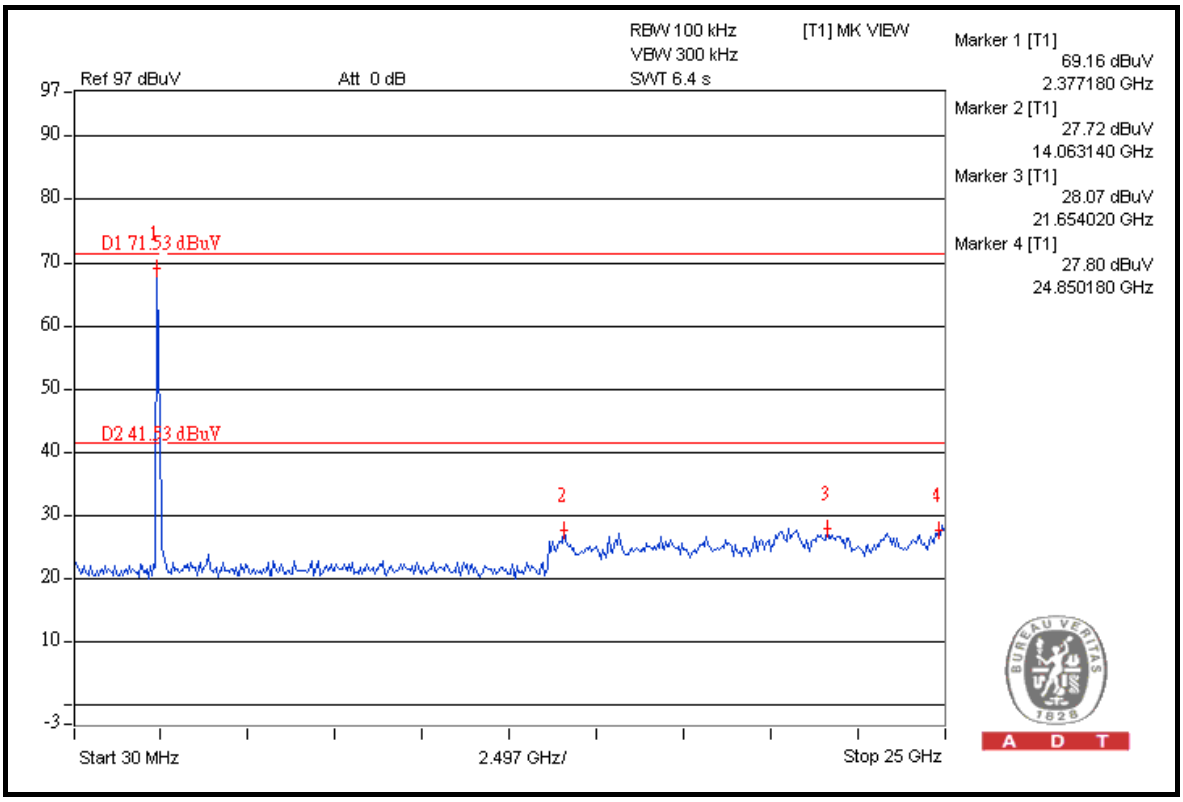
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2462.00 (PK) | 106.4 | 45.93 | 60.47 | 74.00 |
| 2462.00 (AV) | 95.7 | 52.11 | 43.59 | 54.00 |

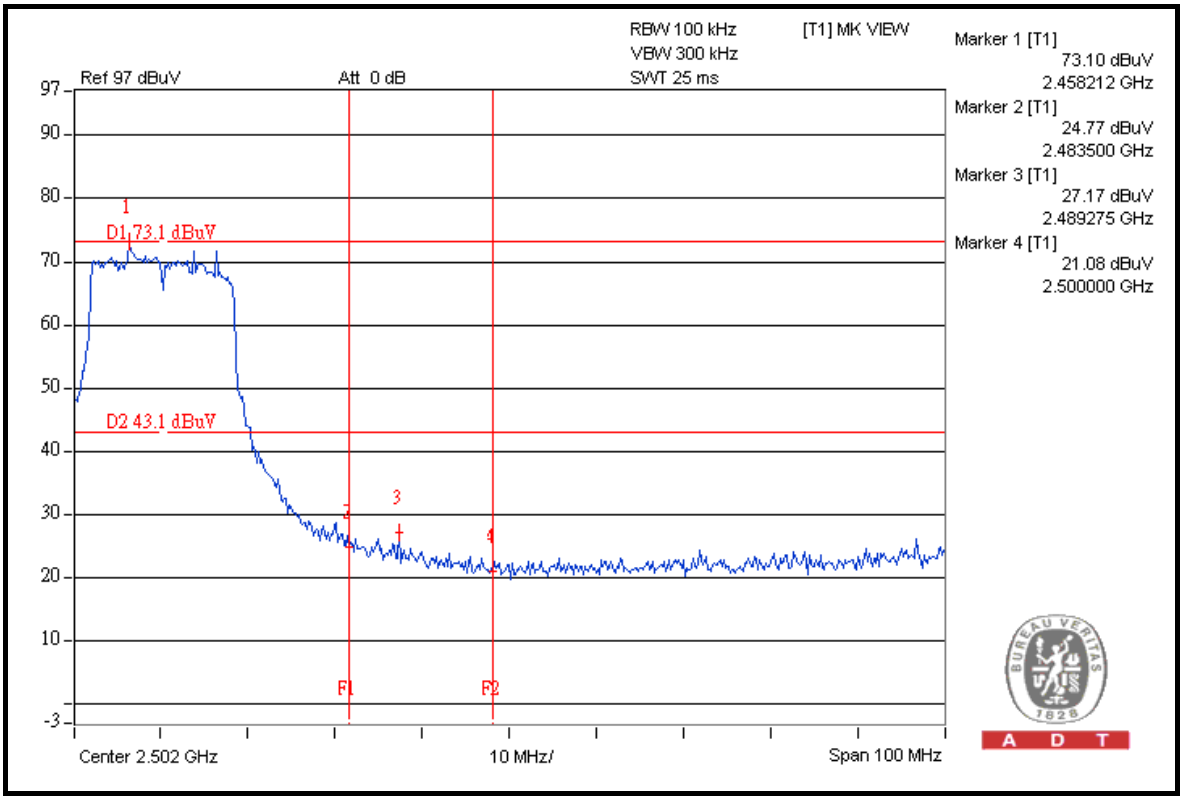
**NOTE:**

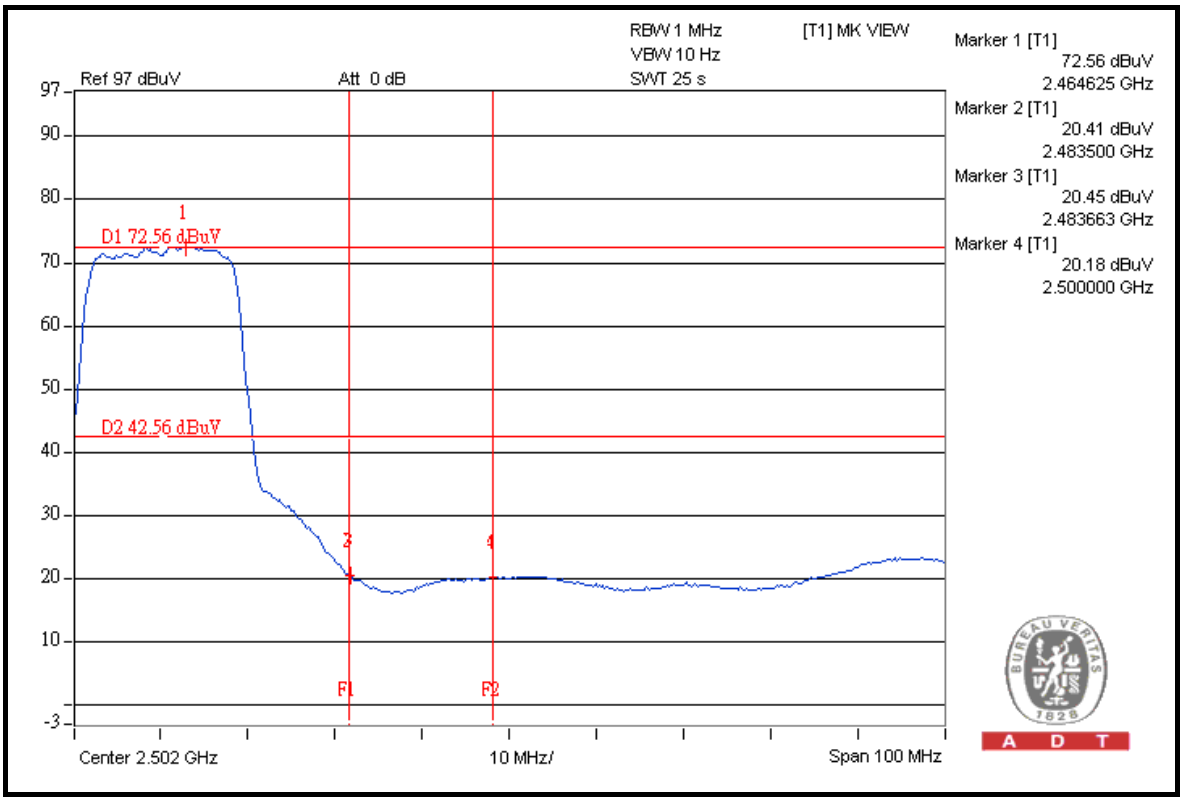
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

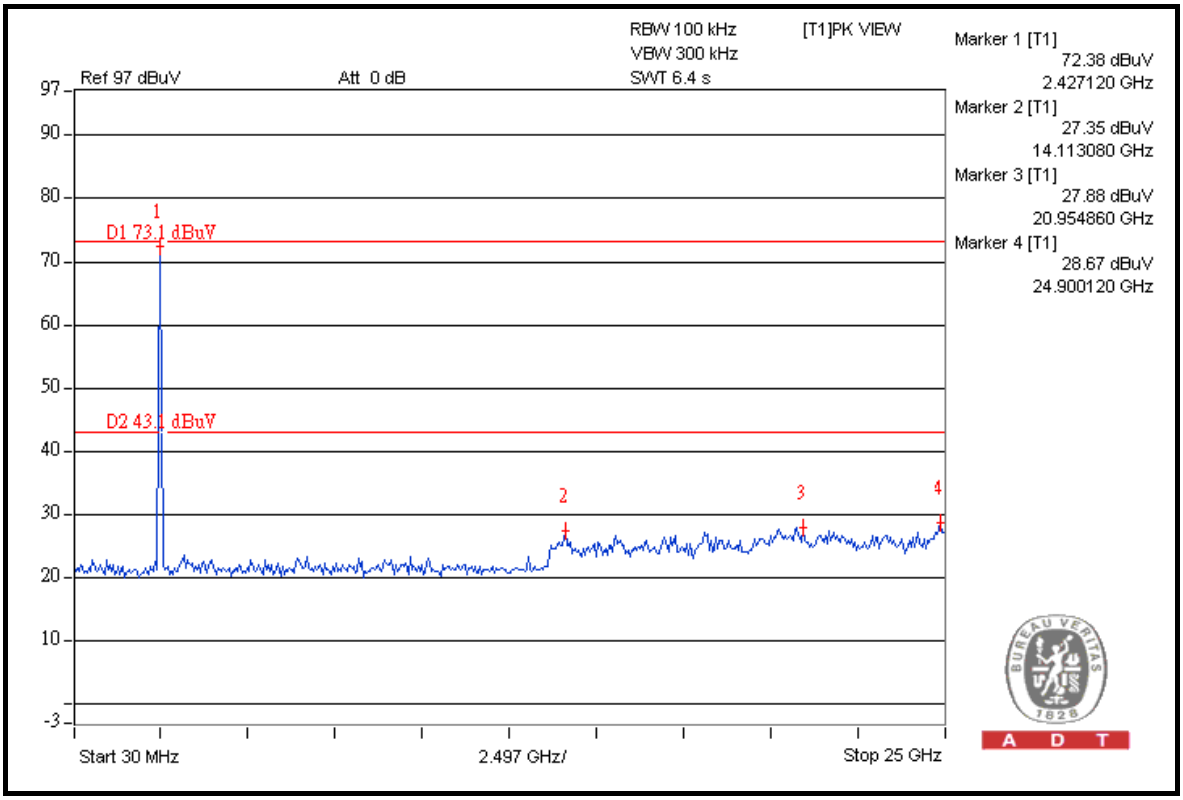

RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 71.53 dBuV
D2 41.53 dBuV
Marker 1 [T1]
71.53 dBuV
2.413400 GHz
Marker 2 [T1]
39.32 dBuV
2.400000 GHz
Marker 3 [T1]
39.32 dBuV
2.400000 GHz
Marker 4 [T1]
27.68 dBuV
2.390000 GHz
Marker 5 [T1]
28.89 dBuV
2.333400 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 71.43 dBuV
D2 41.43 dBuV
Marker 1 [T1]
71.43 dBuV
2.409600 GHz
Marker 2 [T1]
33.50 dBuV
2.400000 GHz
Marker 3 [T1]
33.50 dBuV
2.400000 GHz
Marker 4 [T1]
18.72 dBuV
2.390000 GHz
Marker 5 [T1]
22.91 dBuV
2.333400 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
69.16 dBuV
2.377180 GHz
Marker 2 [T1]
27.72 dBuV
14.063140 GHz
Marker 3 [T1]
28.07 dBuV
21.654020 GHz
Marker 4 [T1]
27.80 dBuV
24.850180 GHz
D1 71.53 dBuV
D2 41.53 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
73.10 dBuV
2.458212 GHz
Marker 2 [T1]
24.77 dBuV
2.483500 GHz
Marker 3 [T1]
27.17 dBuV
2.489275 GHz
Marker 4 [T1]
21.08 dBuV
2.500000 GHz
D1 73.1 dBuV
D2 43.1 dBuV
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
72.56 dBuV
2.464625 GHz
Marker 2 [T1]
20.41 dBuV
2.483500 GHz
Marker 3 [T1]
20.45 dBuV
2.483663 GHz
Marker 4 [T1]
20.18 dBuV
2.500000 GHz
D1 72.56 dBuV
D2 42.56 dBuV
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
72.38 dBuV
2.427120 GHz
Marker 2 [T1]
27.35 dBuV
14.113080 GHz
Marker 3 [T1]
27.88 dBuV
20.954860 GHz
Marker 4 [T1]
28.67 dBuV
24.900120 GHz
D1 73.1 dBuV
D2 43.1 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

## 802.11n (20MHz)

**RESTRICT BAND (2310 ~ 2390 MHz)**

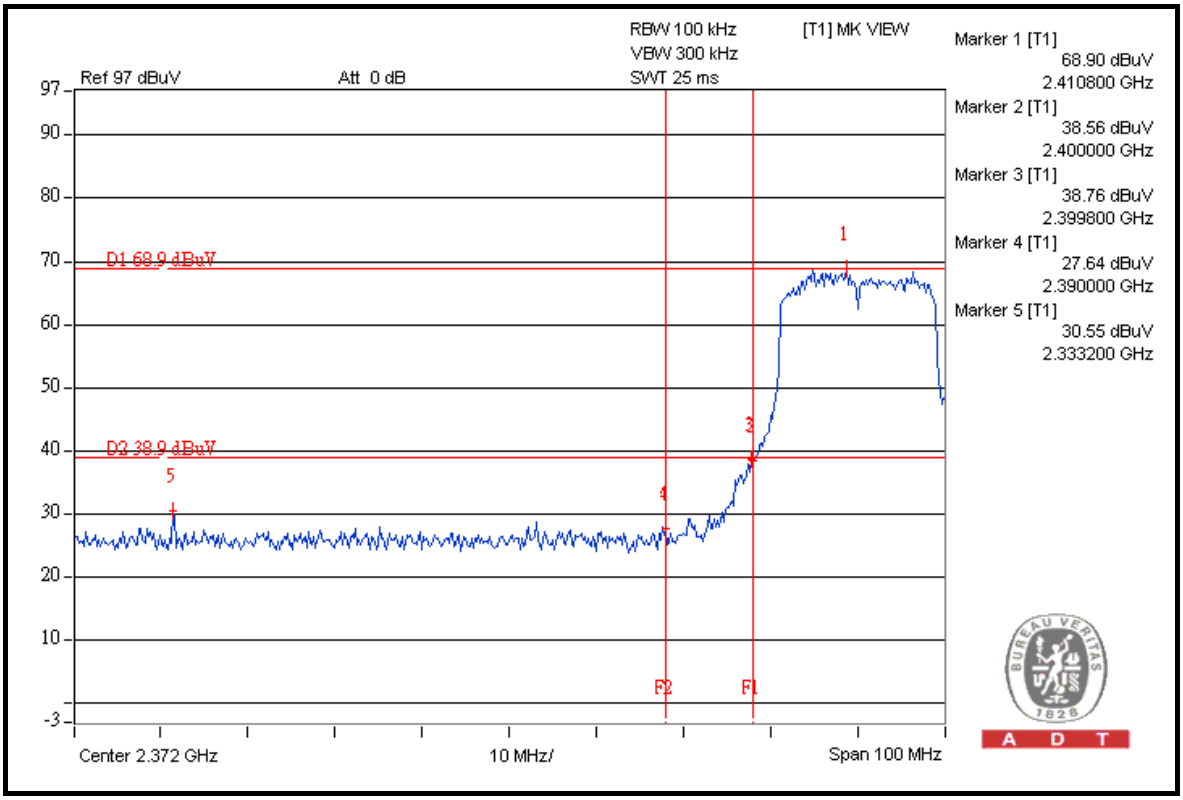
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2412.00 (PK) | 104.7 | 38.35 | 66.35 | 74.00 |
| 2412.00 (AV) | 93.4 | 44.19 | 49.21 | 54.00 |

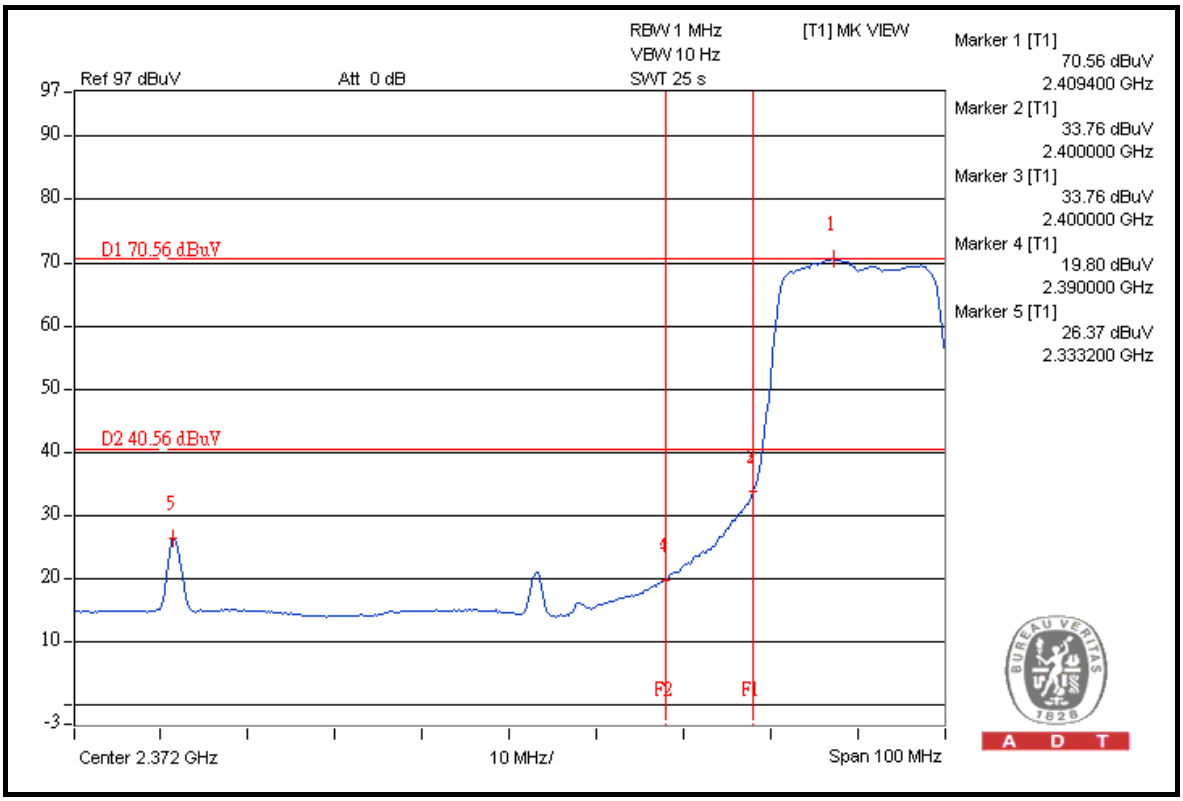
**RESTRICT BAND (2483.5 ~ 2500 MHz)**

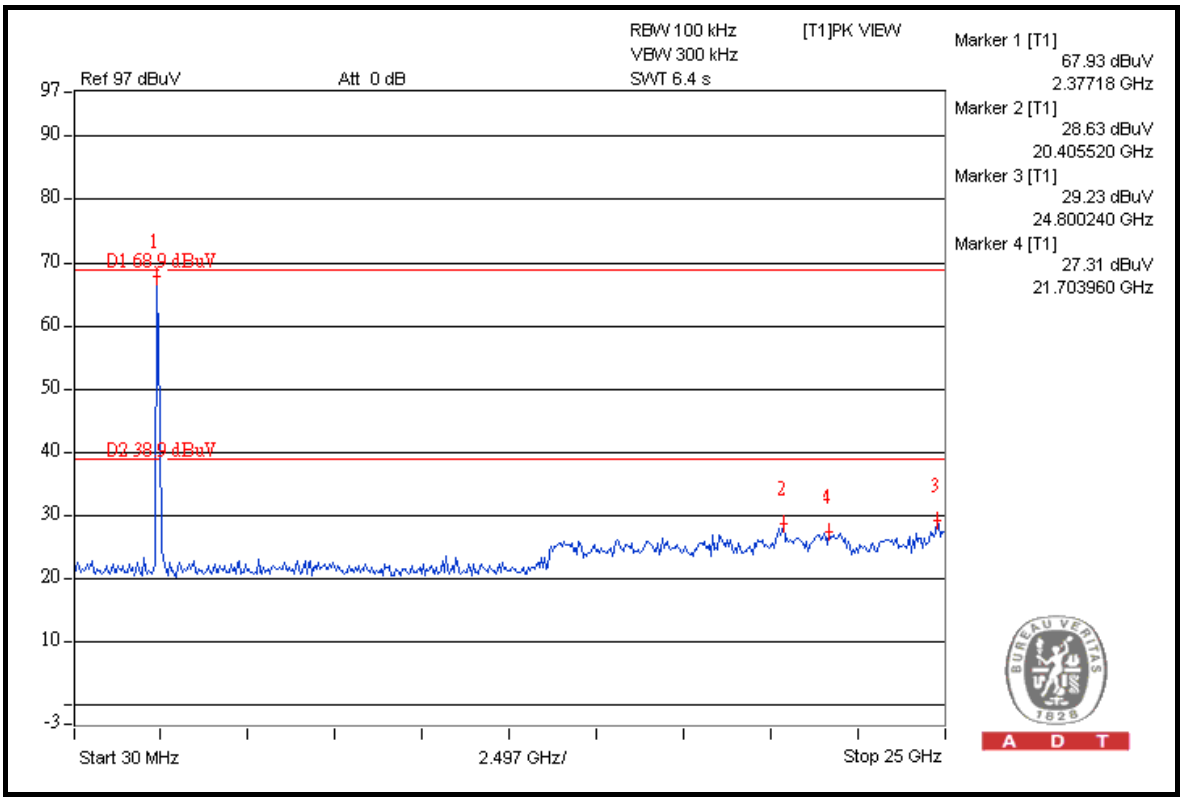
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2462.00 (PK) | 105.0 | 47.88 | 57.12 | 74.00 |
| 2462.00 (AV) | 93.6 | 51.67 | 41.93 | 54.00 |

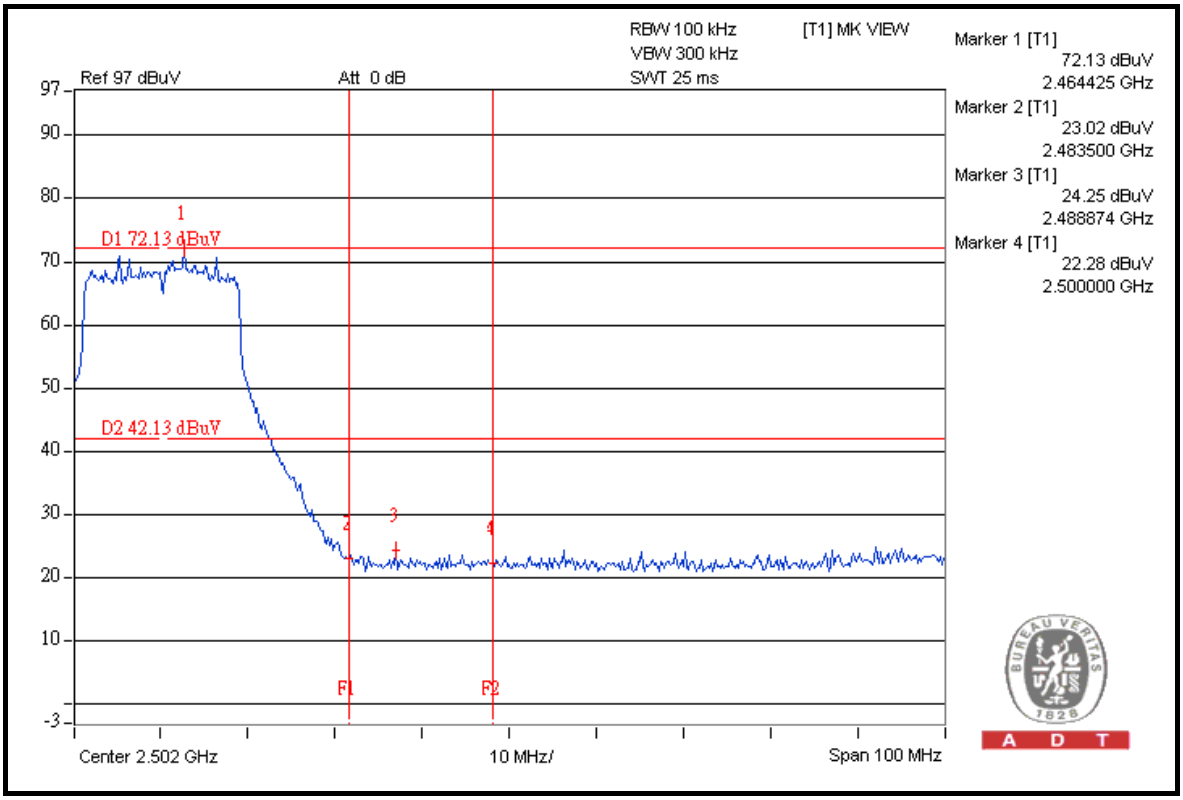
**NOTE:**

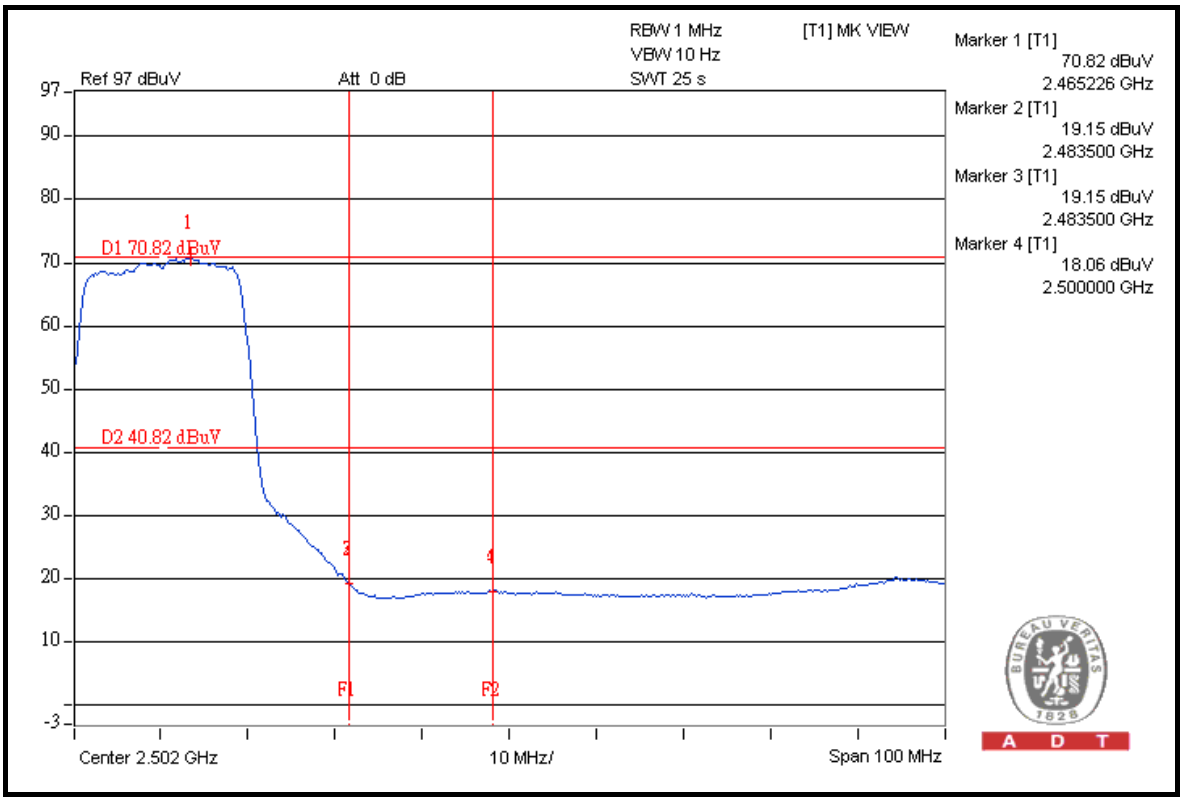
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

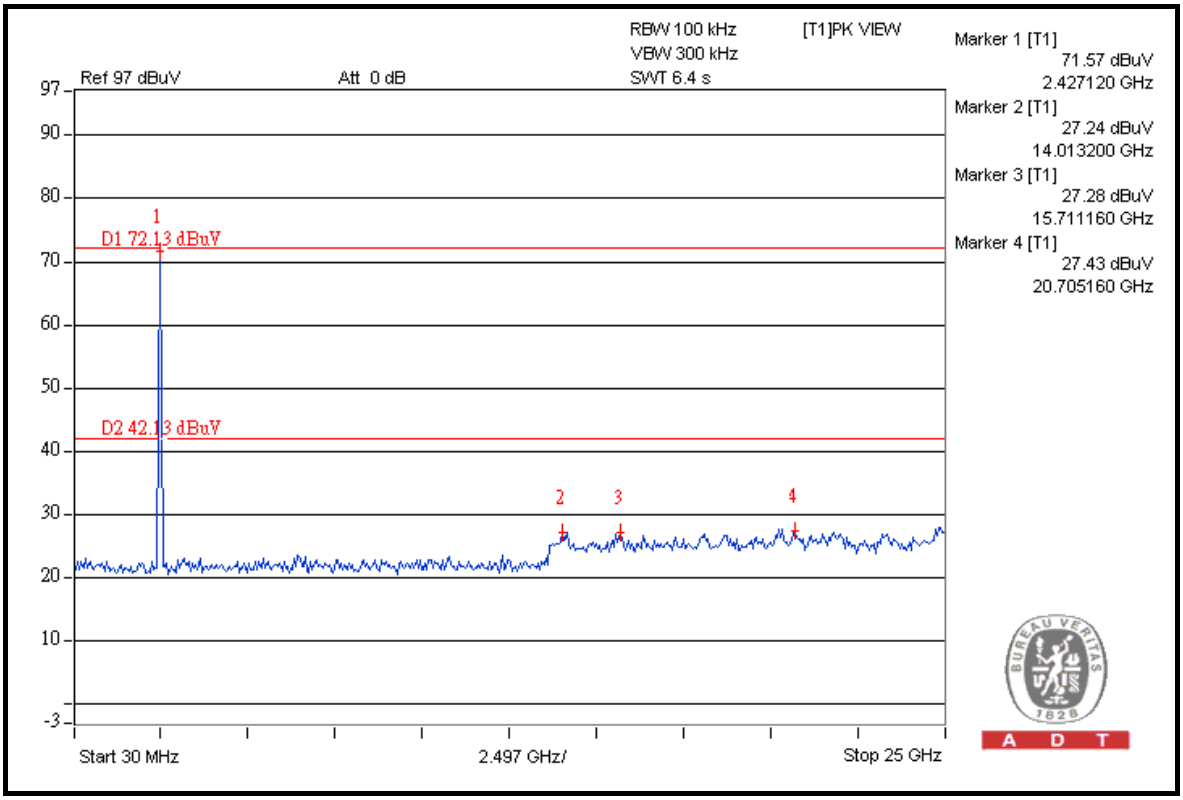

RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
68.90 dBuV
2.410800 GHz
Marker 2 [T1]
38.56 dBuV
2.400000 GHz
Marker 3 [T1]
38.76 dBuV
2.399800 GHz
Marker 4 [T1]
27.64 dBuV
2.390000 GHz
Marker 5 [T1]
30.55 dBuV
2.333200 GHz
D1 68.9 dBuV
D2 38.9 dBuV
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
70.56 dBuV
2.409400 GHz
Marker 2 [T1]
33.76 dBuV
2.400000 GHz
Marker 3 [T1]
33.76 dBuV
2.400000 GHz
Marker 4 [T1]
19.80 dBuV
2.390000 GHz
Marker 5 [T1]
26.37 dBuV
2.333200 GHz
D1 70.56 dBuV
D2 40.56 dBuV
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
67.93 dBuV
2.37718 GHz
Marker 2 [T1]
28.63 dBuV
20.405520 GHz
Marker 3 [T1]
29.23 dBuV
24.800240 GHz
Marker 4 [T1]
27.31 dBuV
21.703960 GHz
D1 68.9 dBuV
D2 38.9 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
72.13 dBuV
2.464425 GHz
Marker 2 [T1]
23.02 dBuV
2.483500 GHz
Marker 3 [T1]
24.25 dBuV
2.488874 GHz
Marker 4 [T1]
22.28 dBuV
2.500000 GHz
D1 72.13 dBuV
D2 42.13 dBuV
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
70.82 dBuV
2.465226 GHz
Marker 2 [T1]
19.15 dBuV
2.483500 GHz
Marker 3 [T1]
19.15 dBuV
2.483500 GHz
Marker 4 [T1]
18.06 dBuV
2.500000 GHz
D1 70.82 dBuV
D2 40.82 dBuV
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
71.57 dBuV
2.427120 GHz
Marker 2 [T1]
27.24 dBuV
14.013200 GHz
Marker 3 [T1]
27.28 dBuV
15.711160 GHz
Marker 4 [T1]
27.43 dBuV
20.705160 GHz
D1 72.13 dBuV
D2 42.13 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

## 802.11n (40MHz)

**RESTRICT BAND (2310 ~ 2390 MHz)**

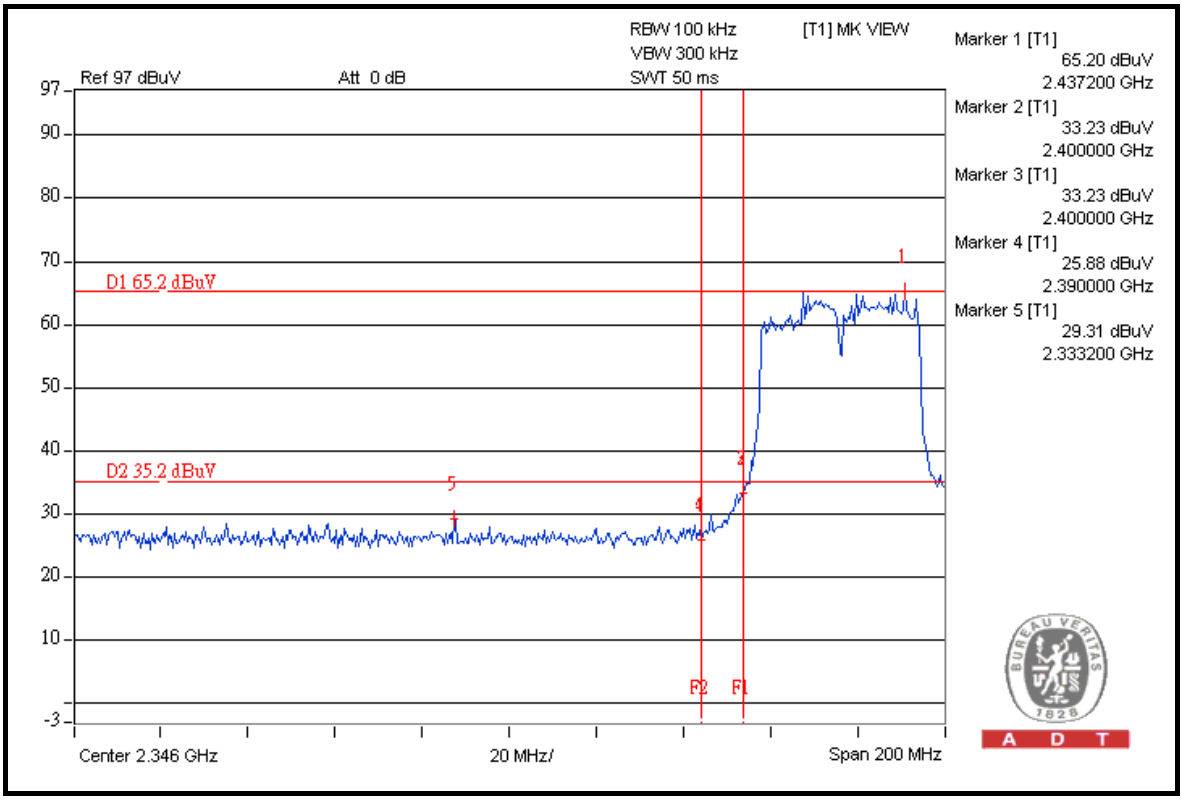
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2422.00 (PK) | 98.6 | 35.89 | 62.71 | 74.00 |
| 2422.00 (AV) | 88.5 | 43.62 | 44.88 | 54.00 |

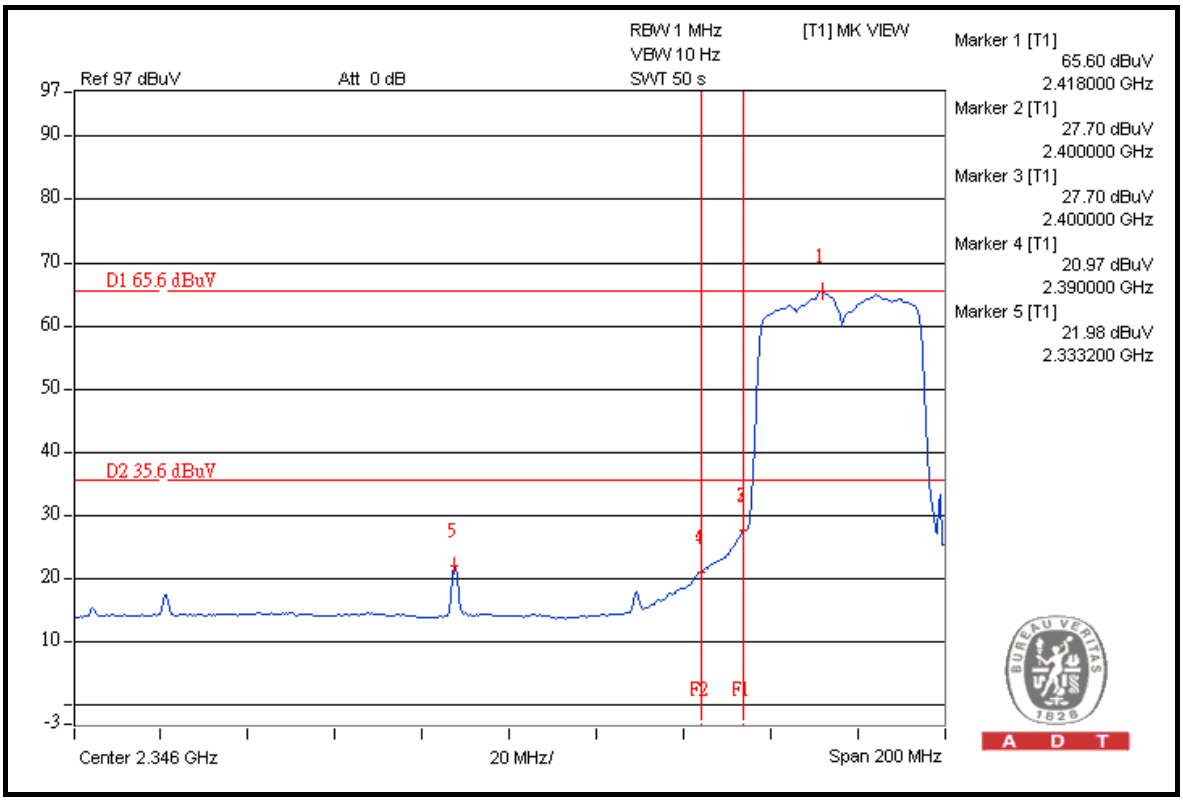
**RESTRICT BAND (2483.5 ~ 2500 MHz)**

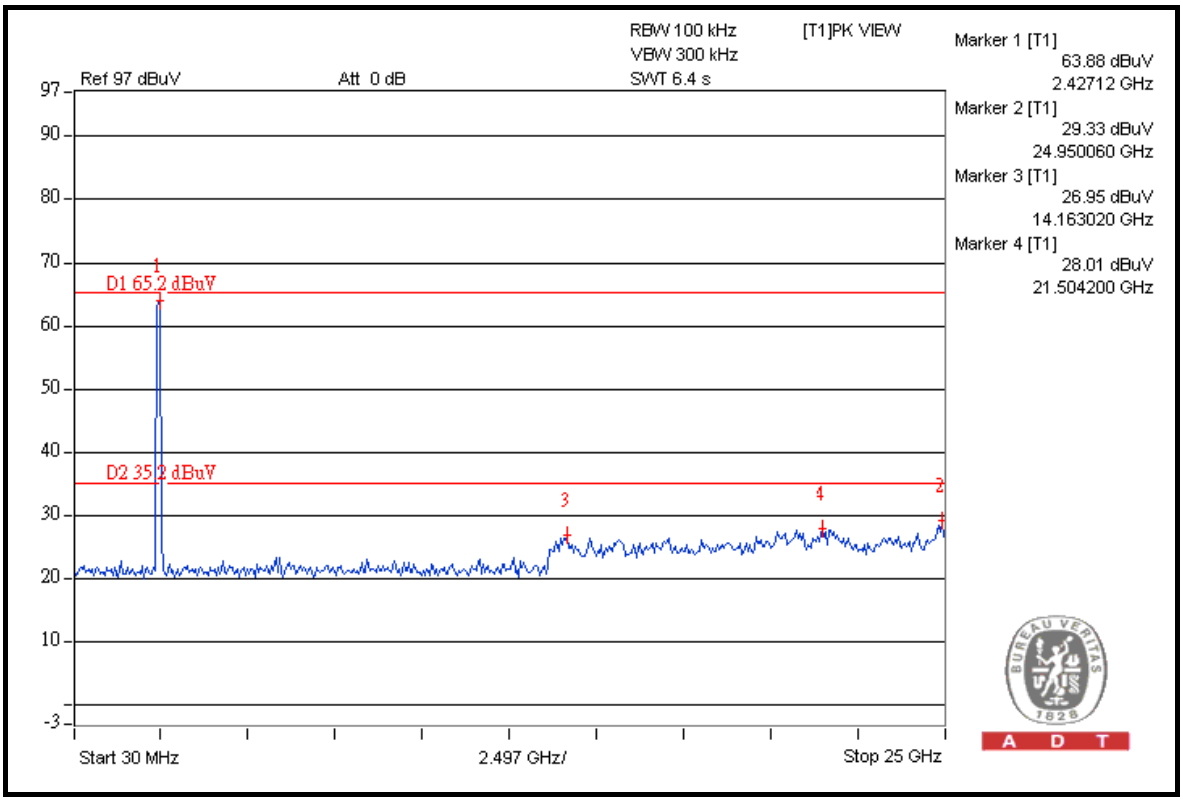
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2452.00 (PK) | 98.3 | 38.67 | 59.63 | 74.00 |
| 2452.00 (AV) | 88.1 | 41.48 | 46.62 | 54.00 |

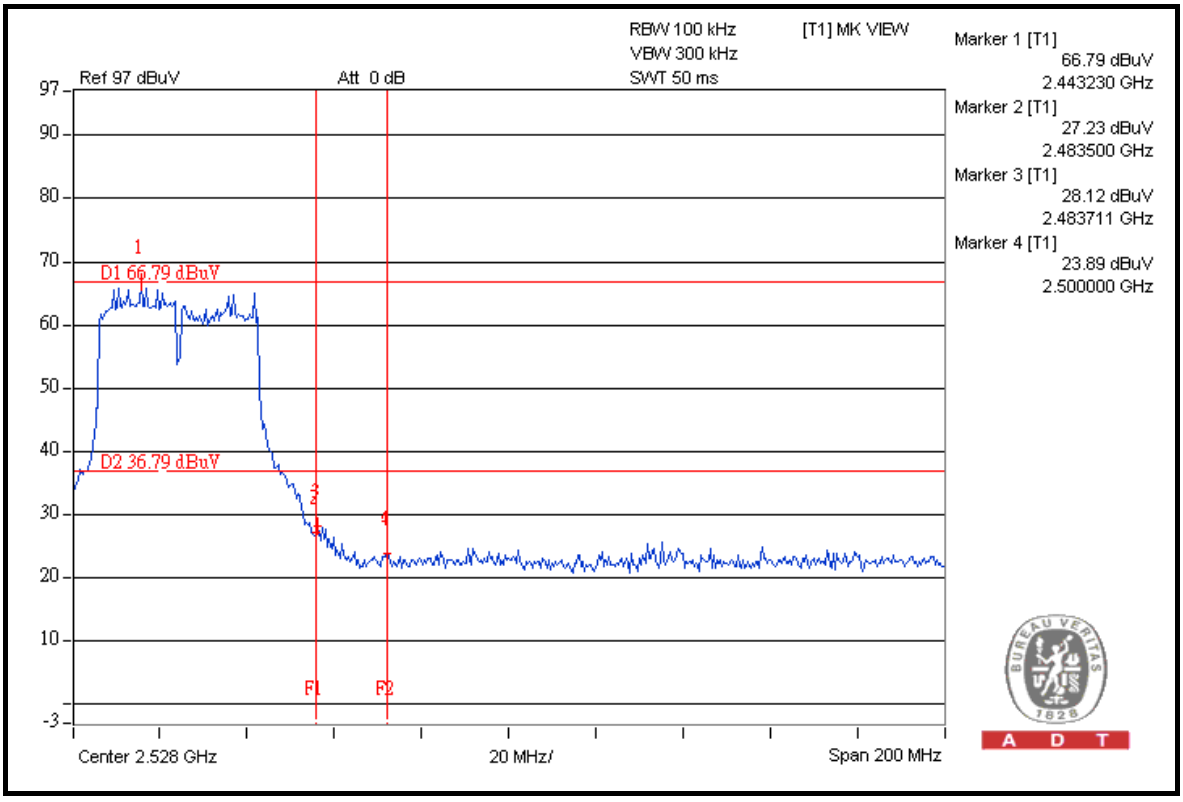
**NOTE:**

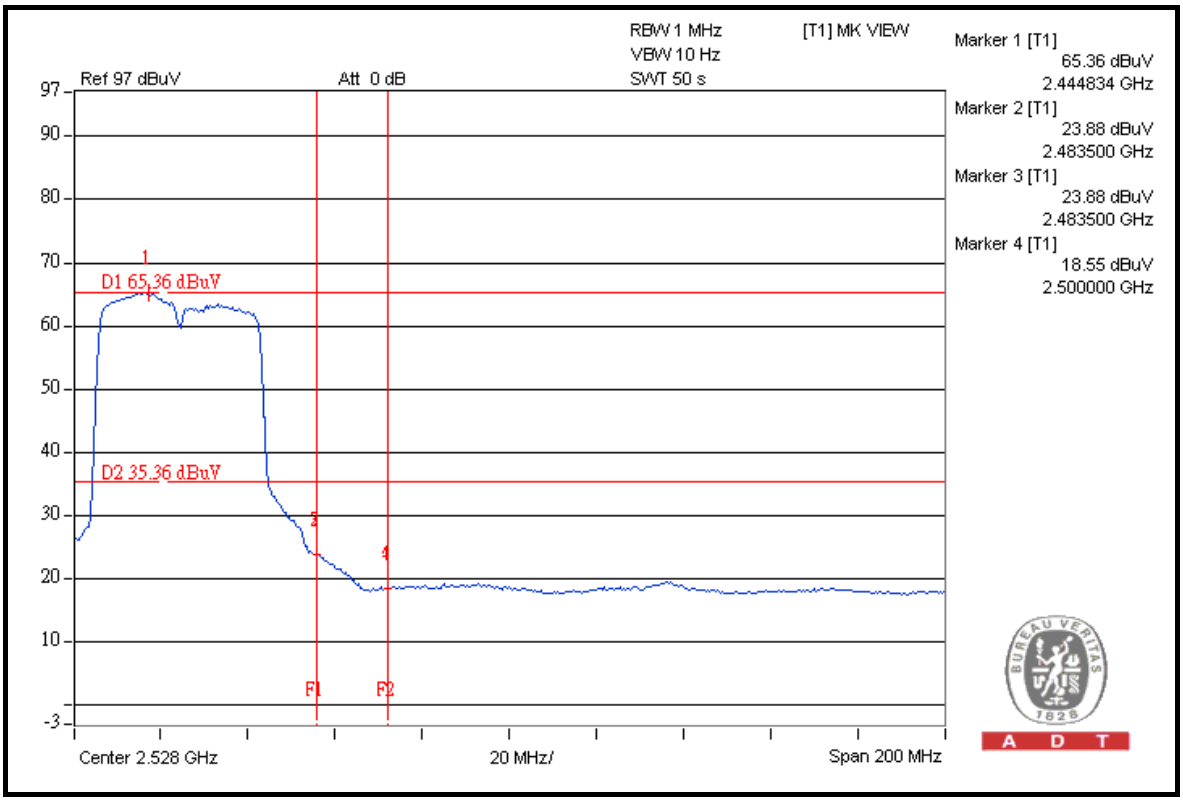
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

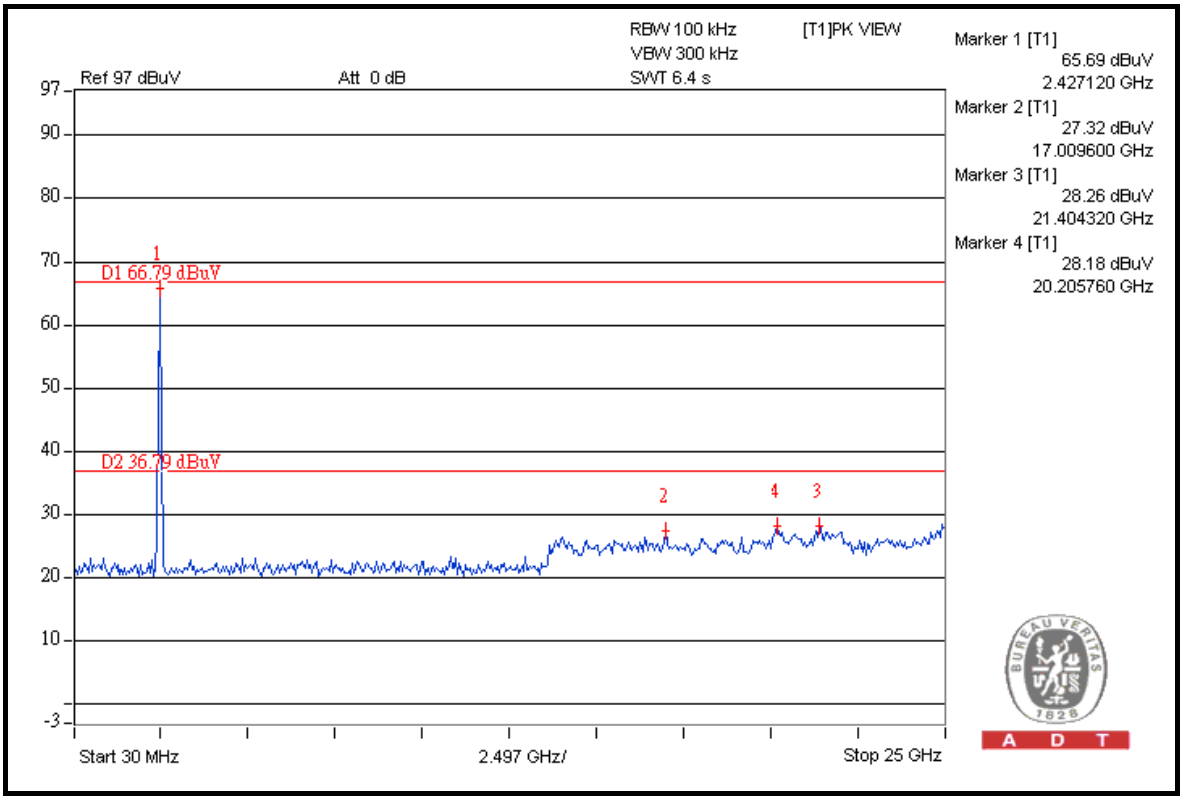

RBW 100 kHz
VBW 300 kHz
SWT 50 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
65.20 dBuV
2.437200 GHz
Marker 2 [T1]
33.23 dBuV
2.400000 GHz
Marker 3 [T1]
33.23 dBuV
2.400000 GHz
Marker 4 [T1]
25.88 dBuV
2.390000 GHz
Marker 5 [T1]
29.31 dBuV
2.333200 GHz
D1 65.2 dBuV
D2 35.2 dBuV
Center 2.346 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
65.60 dBuV
2.418000 GHz
Marker 2 [T1]
27.70 dBuV
2.400000 GHz
Marker 3 [T1]
27.70 dBuV
2.400000 GHz
Marker 4 [T1]
20.97 dBuV
2.390000 GHz
Marker 5 [T1]
21.98 dBuV
2.333200 GHz
D1 65.6 dBuV
D2 35.6 dBuV
Center 2.346 GHz
20 MHz/
Span 200 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
63.88 dBuV
2.42712 GHz
Marker 2 [T1]
29.33 dBuV
24.950060 GHz
Marker 3 [T1]
26.95 dBuV
14.163020 GHz
Marker 4 [T1]
28.01 dBuV
21.504200 GHz
D1 65.2 dBuV
D2 35.2 dBuV
97
90
80
70
60
50
40
30
20
10
-3
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 50 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
66.79 dBuV
2.443230 GHz
Marker 2 [T1]
27.23 dBuV
2.483500 GHz
Marker 3 [T1]
28.12 dBuV
2.483711 GHz
Marker 4 [T1]
23.89 dBuV
2.500000 GHz
D1 66.79 dBuV
D2 36.79 dBuV
F1
F2
97
90
80
70
60
50
40
30
20
10
-3
Center 2.528 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
65.36 dBuV
2.444834 GHz
Marker 2 [T1]
23.88 dBuV
2.483500 GHz
Marker 3 [T1]
23.88 dBuV
2.483500 GHz
Marker 4 [T1]
18.55 dBuV
2.500000 GHz
D1 65.36 dBuV
D2 35.36 dBuV
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
65.69 dBuV
2.427120 GHz
Marker 2 [T1]
27.32 dBuV
17.009600 GHz
Marker 3 [T1]
28.26 dBuV
21.404320 GHz
Marker 4 [T1]
28.18 dBuV
20.205760 GHz
D1 66.79 dBuV
D2 36.79 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

## TEST MODE B1

## 802.11b

**RESTRICT BAND (2310 ~ 2390 MHz)**

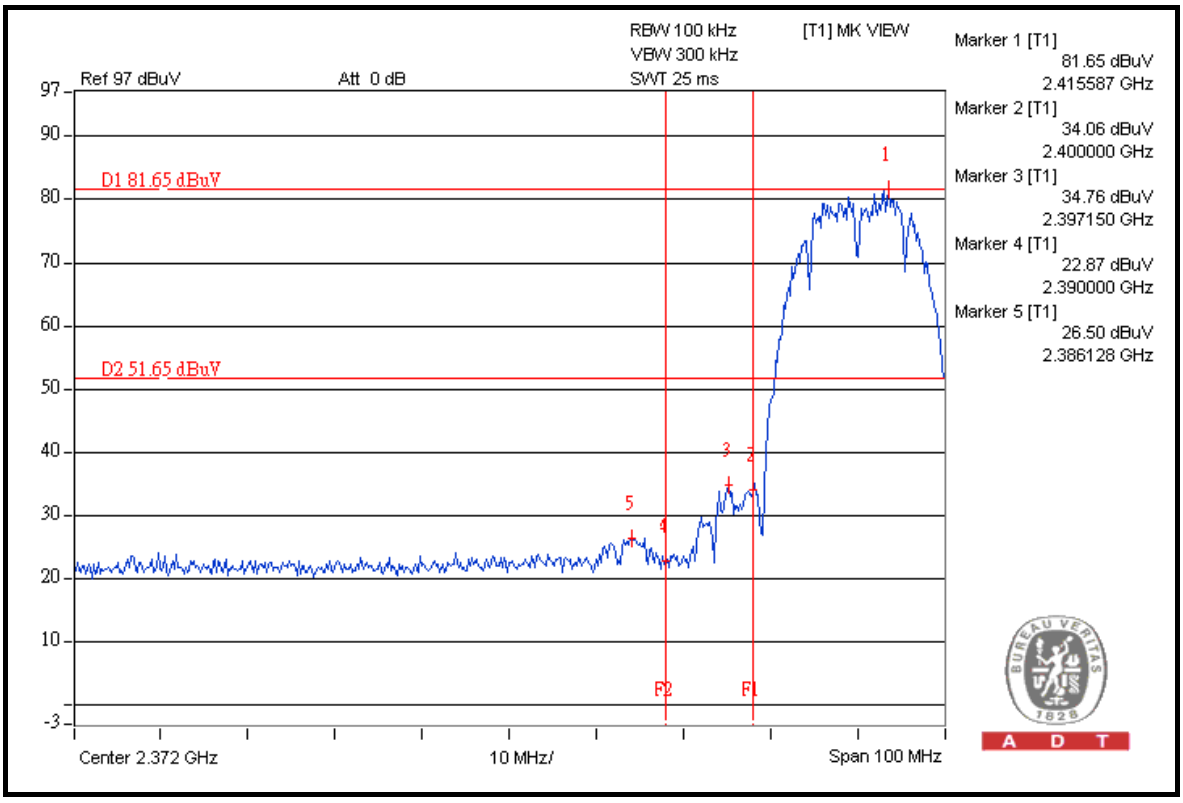
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2412.00 (PK) | 107.9 | 55.15 | 52.75 | 74.00 |
| 2412.00 (AV) | 104.4 | 56.65 | 47.75 | 54.00 |

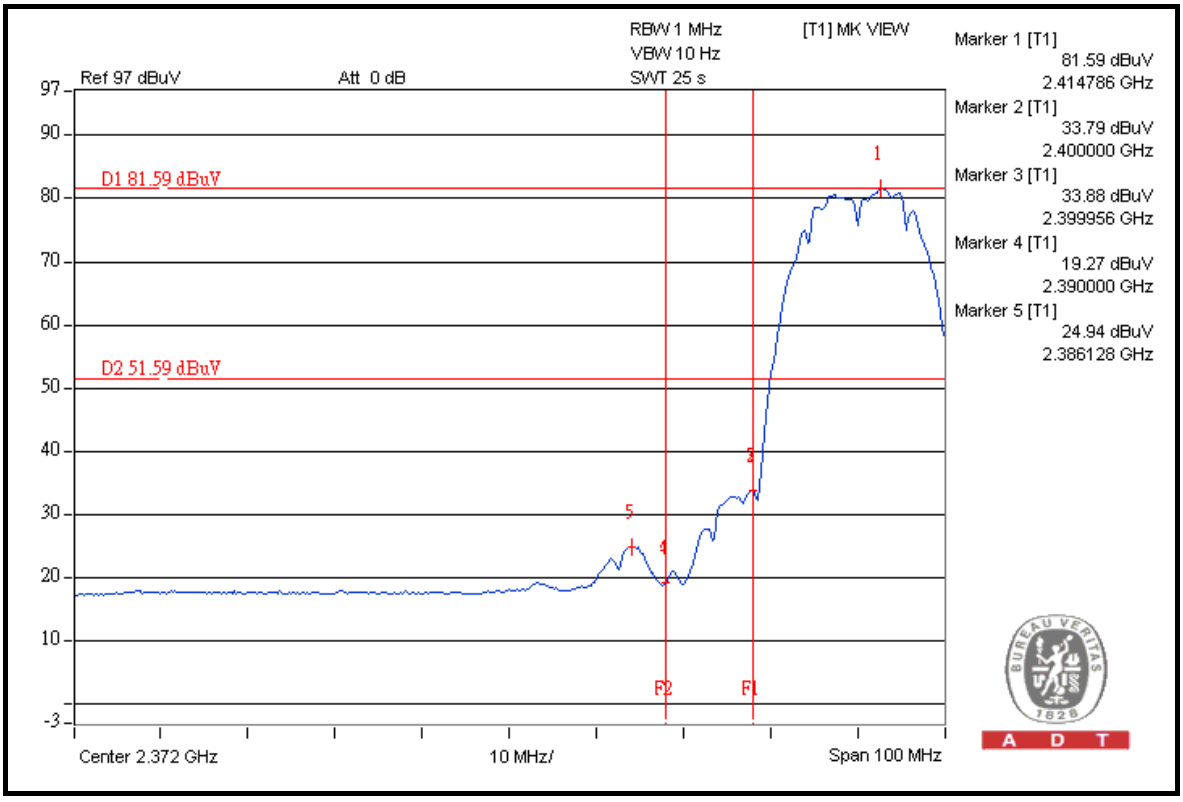
**RESTRICT BAND (2483.5 ~ 2500 MHz)**

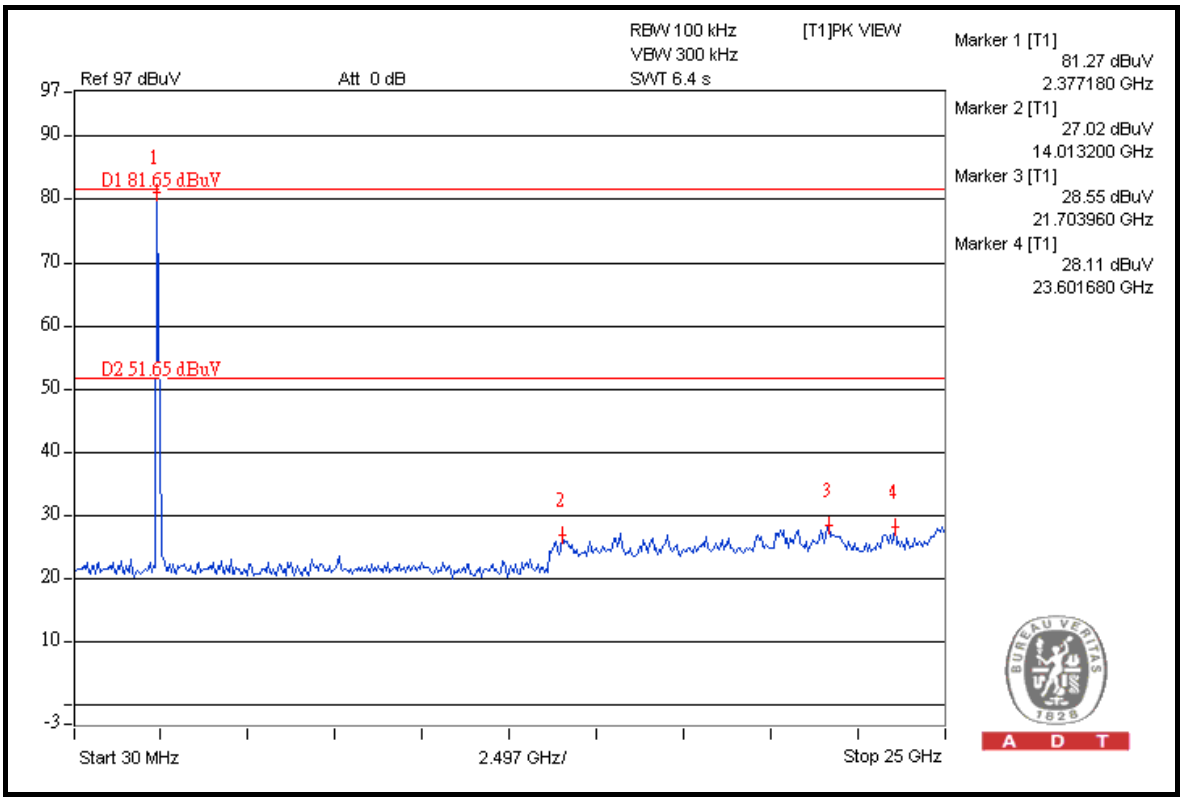
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2462.00 (PK) | 106.7 | 47.69 | 59.01 | 74.00 |
| 2462.00 (AV) | 103.0 | 50.06 | 52.94 | 54.00 |

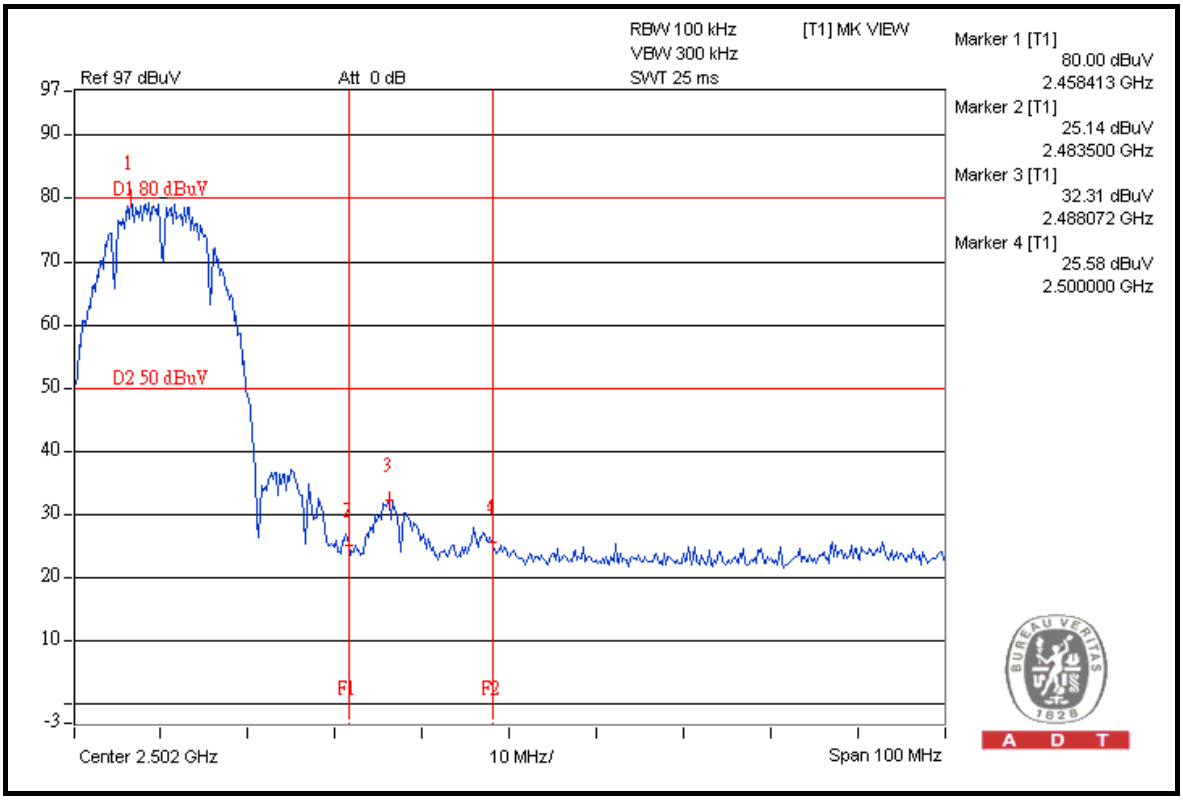
**NOTE:**

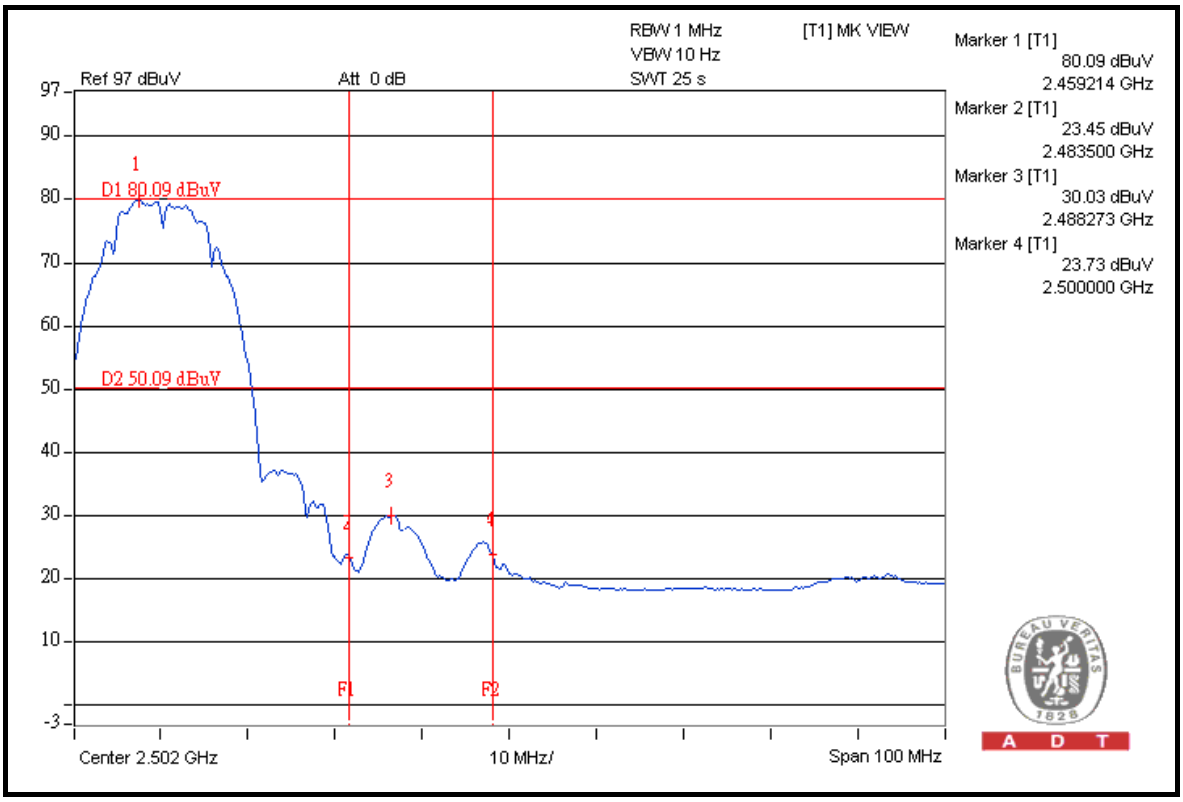
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

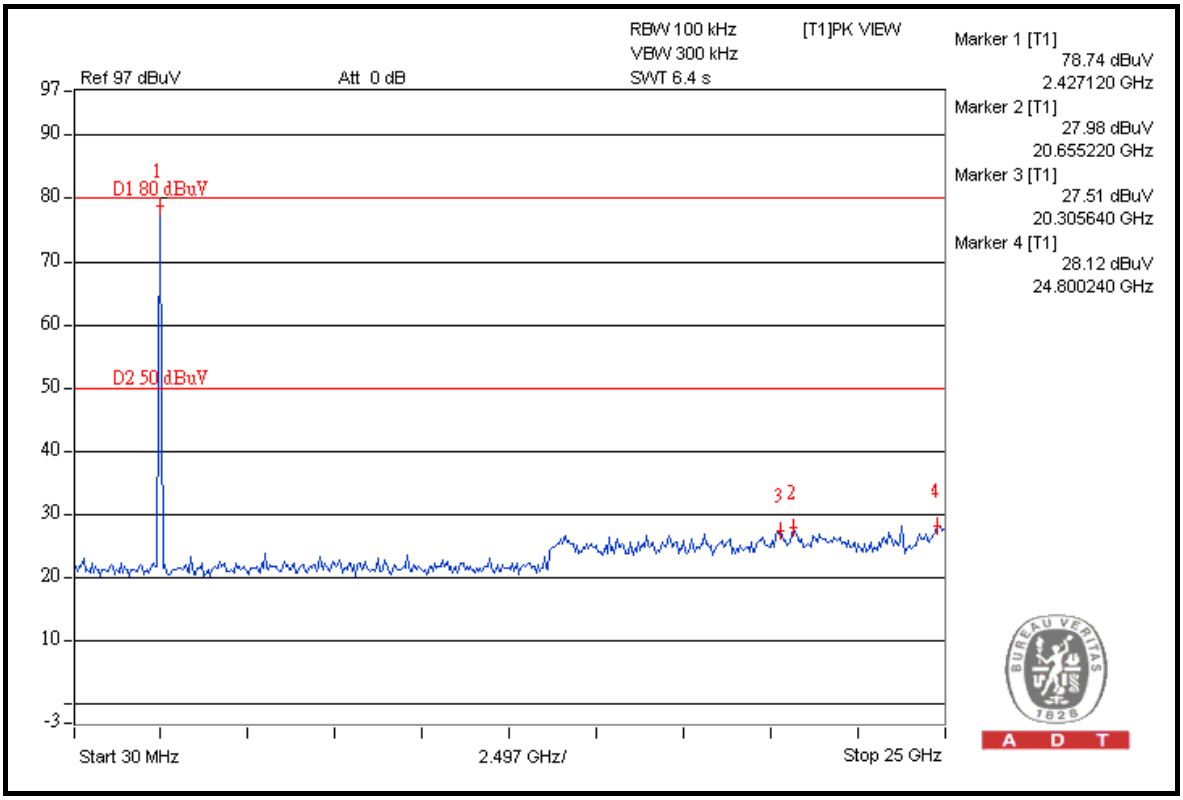

RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 81.65 dBuV
D2 51.65 dBuV
Marker 1 [T1]
81.65 dBuV
2.415587 GHz
Marker 2 [T1]
34.06 dBuV
2.400000 GHz
Marker 3 [T1]
34.76 dBuV
2.397150 GHz
Marker 4 [T1]
22.87 dBuV
2.390000 GHz
Marker 5 [T1]
26.50 dBuV
2.386128 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 81.59 dBuV
D2 51.59 dBuV
Marker 1 [T1]
81.59 dBuV
2.414786 GHz
Marker 2 [T1]
33.79 dBuV
2.400000 GHz
Marker 3 [T1]
33.88 dBuV
2.399956 GHz
Marker 4 [T1]
19.27 dBuV
2.390000 GHz
Marker 5 [T1]
24.94 dBuV
2.386128 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
81.27 dBuV
2.377180 GHz
Marker 2 [T1]
27.02 dBuV
14.013200 GHz
Marker 3 [T1]
28.55 dBuV
21.703960 GHz
Marker 4 [T1]
28.11 dBuV
23.601680 GHz
D1 81.65 dBuV
D2 51.65 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
80.00 dBuV
2.458413 GHz
Marker 2 [T1]
25.14 dBuV
2.483500 GHz
Marker 3 [T1]
32.31 dBuV
2.488072 GHz
Marker 4 [T1]
25.58 dBuV
2.500000 GHz
D1 80 dBuV
D2 50 dBuV
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
80.09 dBuV
2.459214 GHz
Marker 2 [T1]
23.45 dBuV
2.483500 GHz
Marker 3 [T1]
30.03 dBuV
2.488273 GHz
Marker 4 [T1]
23.73 dBuV
2.500000 GHz
D1 80.09 dBuV
D2 50.09 dBuV
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
78.74 dBuV
2.427120 GHz
Marker 2 [T1]
27.98 dBuV
20.655220 GHz
Marker 3 [T1]
27.51 dBuV
20.305640 GHz
Marker 4 [T1]
28.12 dBuV
24.800240 GHz
D1 80 dBuV
D2 50 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

## 802.11g

**RESTRICT BAND (2310 ~ 2390 MHz)**

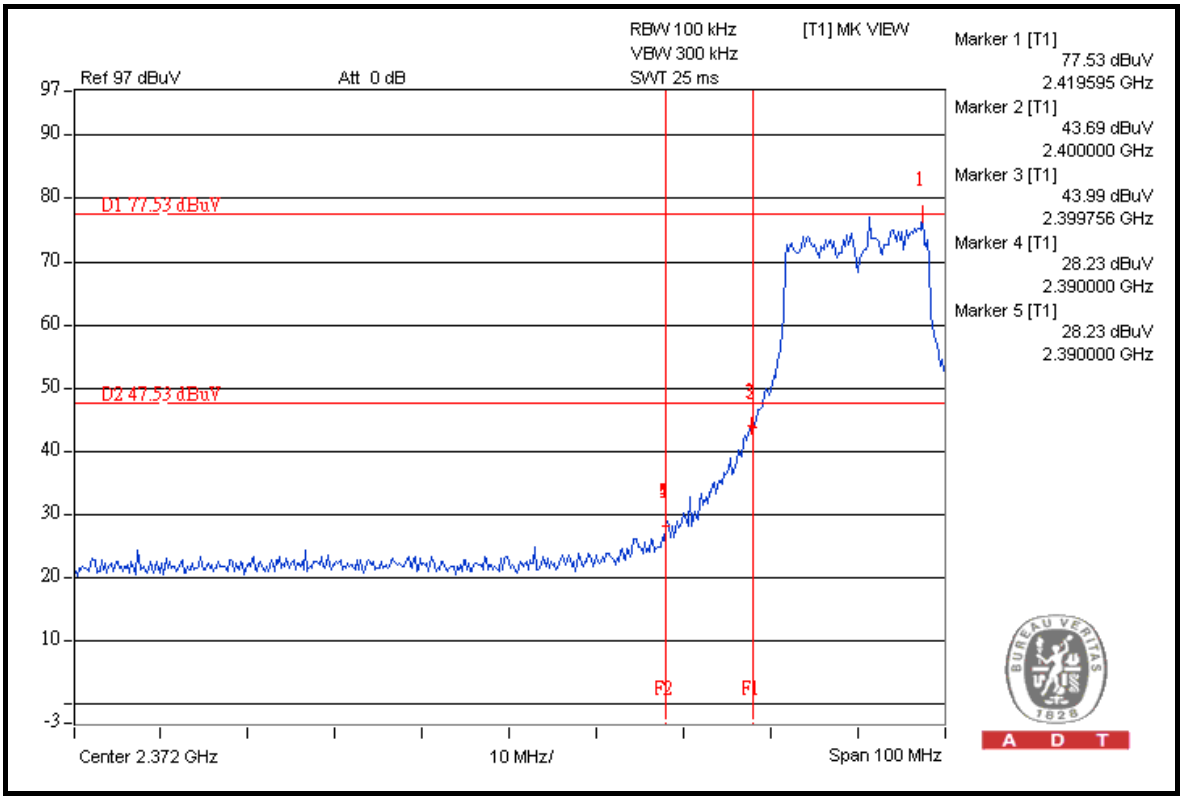
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2412.00 (PK) | 108.9 | 49.3 | 59.6 | 74.00 |
| 2412.00 (AV) | 99.1 | 52.6 | 46.5 | 54.00 |

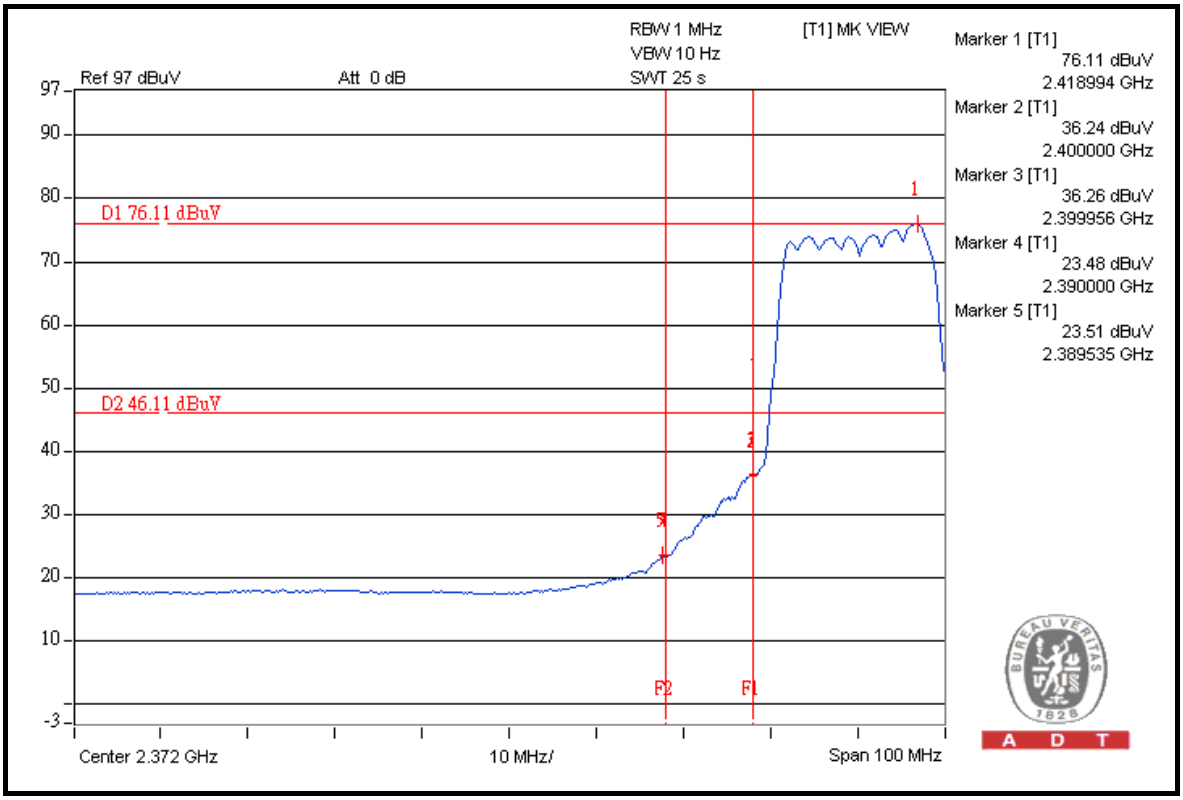
**RESTRICT BAND (2483.5 ~ 2500 MHz)**

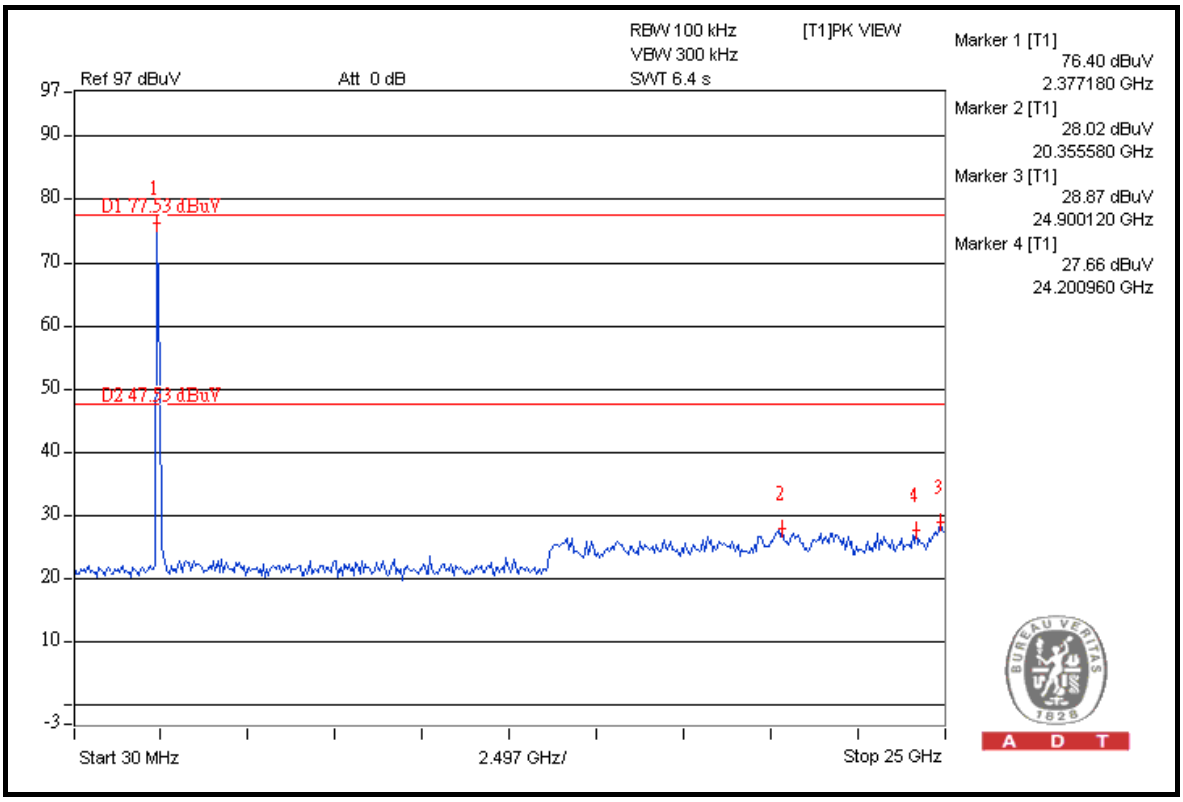
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2462.00 (PK) | 108.8 | 48.72 | 60.08 | 74.00 |
| 2462.00 (AV) | 99.2 | 51.52 | 47.68 | 54.00 |

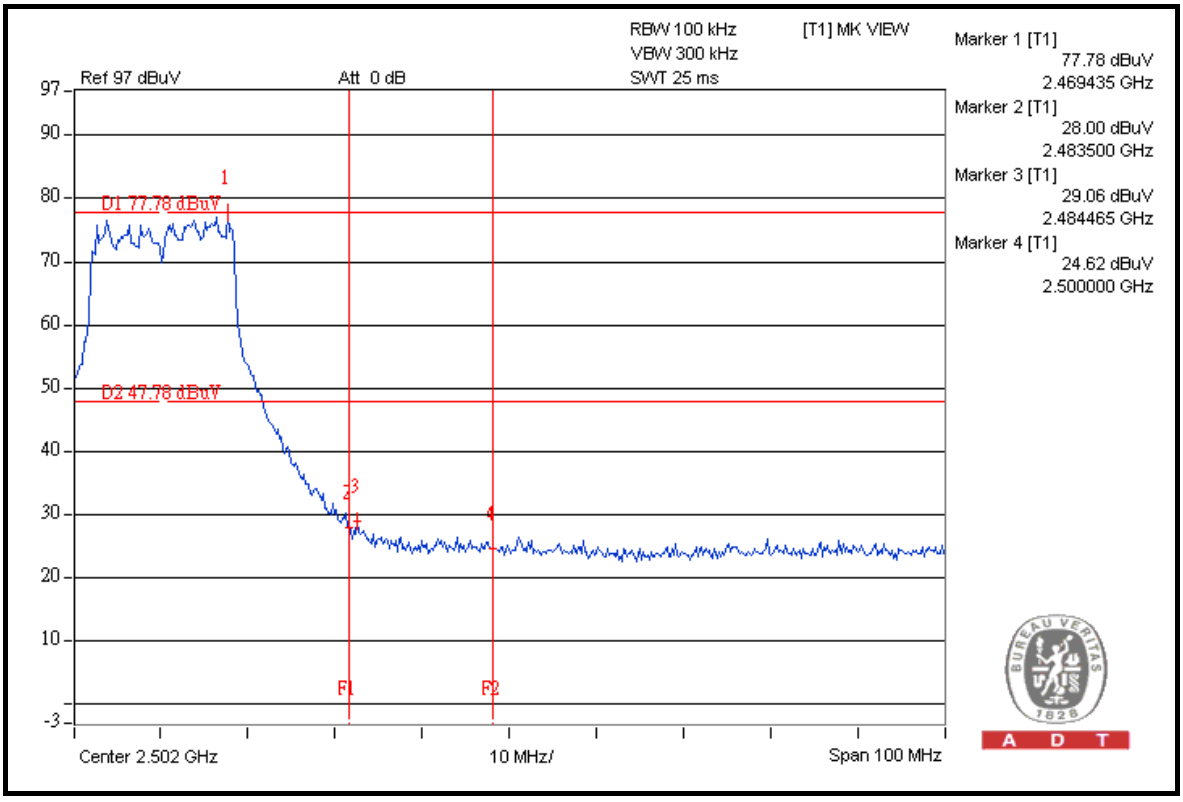
**NOTE:**

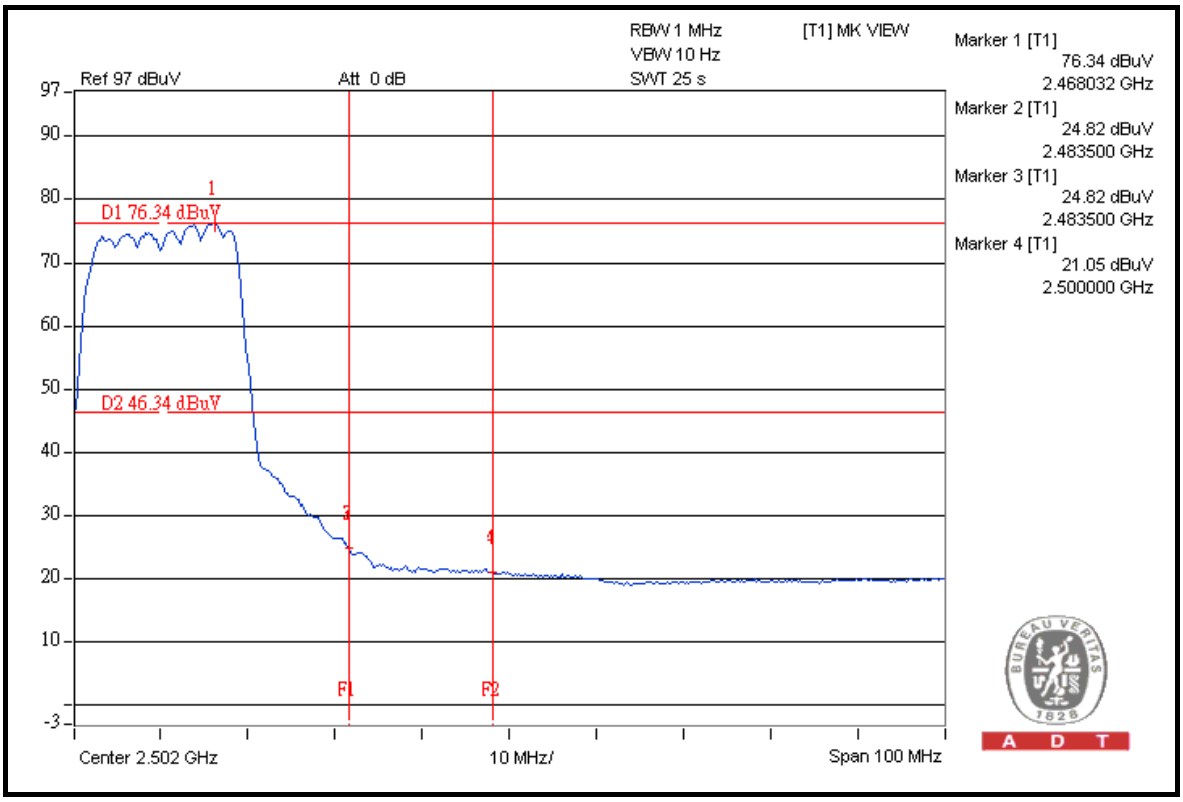
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

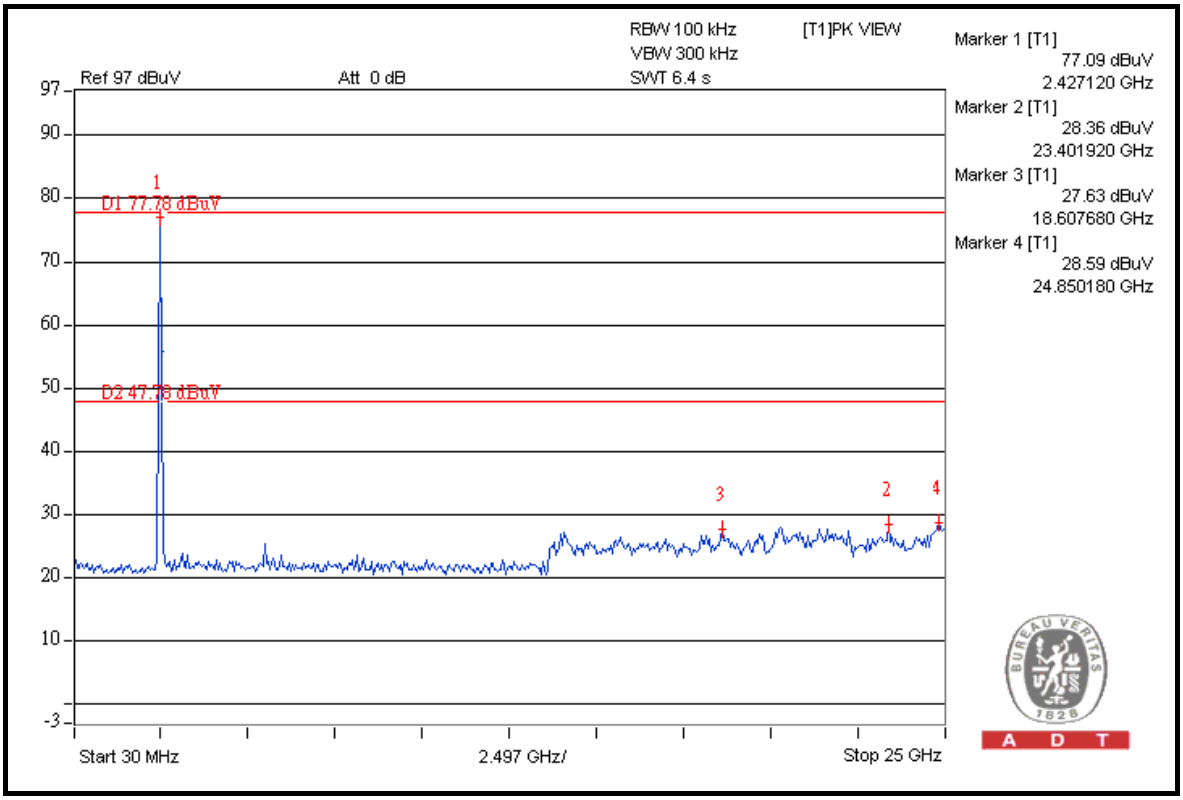

RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 77.53 dBuV
D2 47.53 dBuV
Marker 1 [T1]
77.53 dBuV
2.419595 GHz
Marker 2 [T1]
43.69 dBuV
2.400000 GHz
Marker 3 [T1]
43.99 dBuV
2.399756 GHz
Marker 4 [T1]
28.23 dBuV
2.390000 GHz
Marker 5 [T1]
28.23 dBuV
2.390000 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 76.11 dBuV
D2 46.11 dBuV
Marker 1 [T1]
76.11 dBuV
2.418994 GHz
Marker 2 [T1]
36.24 dBuV
2.400000 GHz
Marker 3 [T1]
36.26 dBuV
2.399956 GHz
Marker 4 [T1]
23.48 dBuV
2.390000 GHz
Marker 5 [T1]
23.51 dBuV
2.389535 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
76.40 dBuV
2.377180 GHz
Marker 2 [T1]
28.02 dBuV
20.355580 GHz
Marker 3 [T1]
28.87 dBuV
24.900120 GHz
Marker 4 [T1]
27.66 dBuV
24.200960 GHz
D1 77.53 dBuV
D2 47.53 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
77.78 dBuV
2.469435 GHz
Marker 2 [T1]
28.00 dBuV
2.483500 GHz
Marker 3 [T1]
29.06 dBuV
2.484465 GHz
Marker 4 [T1]
24.62 dBuV
2.500000 GHz
D1 77.78 dBuV
D2 47.78 dBuV
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 76.34 dBuV
D2 46.34 dBuV
Marker 1 [T1]
76.34 dBuV
2.468032 GHz
Marker 2 [T1]
24.82 dBuV
2.483500 GHz
Marker 3 [T1]
24.82 dBuV
2.483500 GHz
Marker 4 [T1]
21.05 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
D1 77.78 dBuV
D2 47.78 dBuV
Marker 1 [T1]
77.09 dBuV
2.427120 GHz
Marker 2 [T1]
28.36 dBuV
23.401920 GHz
Marker 3 [T1]
27.63 dBuV
18.607680 GHz
Marker 4 [T1]
28.59 dBuV
24.850180 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz

## 802.11n (20MHz)

**RESTRICT BAND (2310 ~ 2390 MHz)**

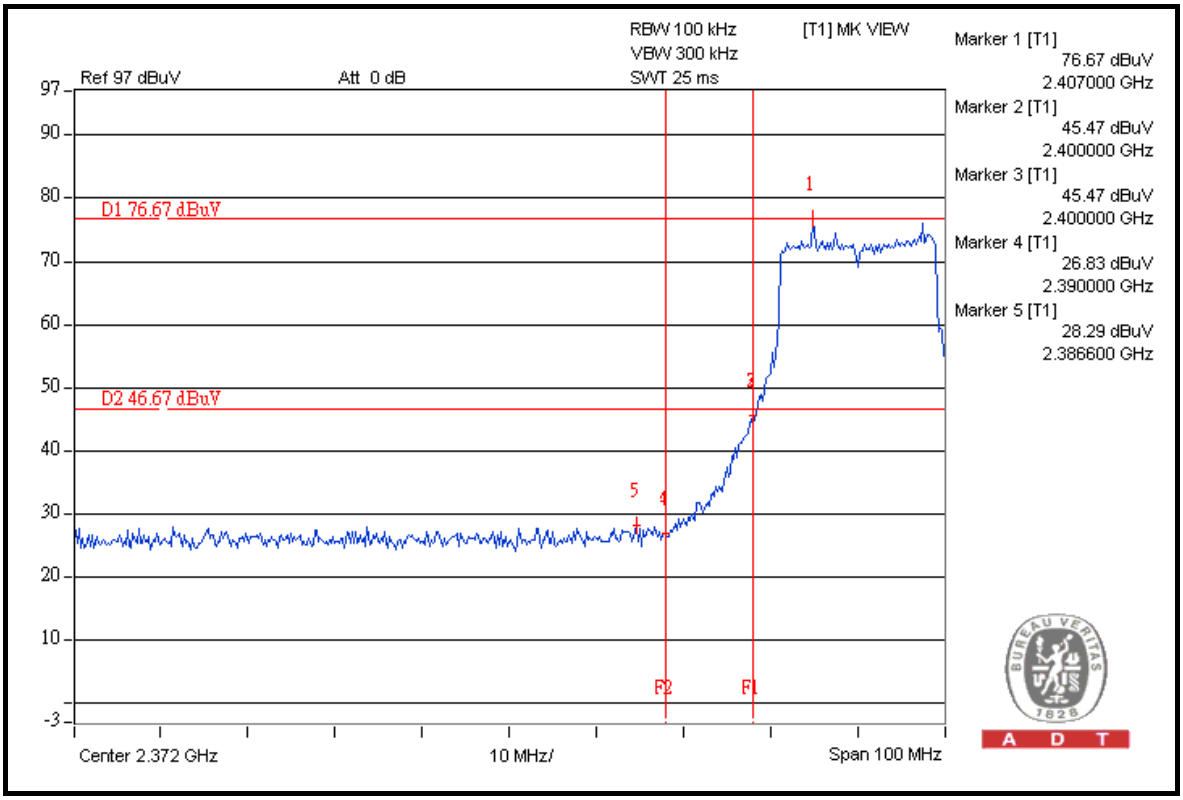
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2412.00 (PK) | 107.9 | 48.38 | 59.52 | 74.00 |
| 2412.00 (AV) | 98.6 | 52.60 | 46.00 | 54.00 |

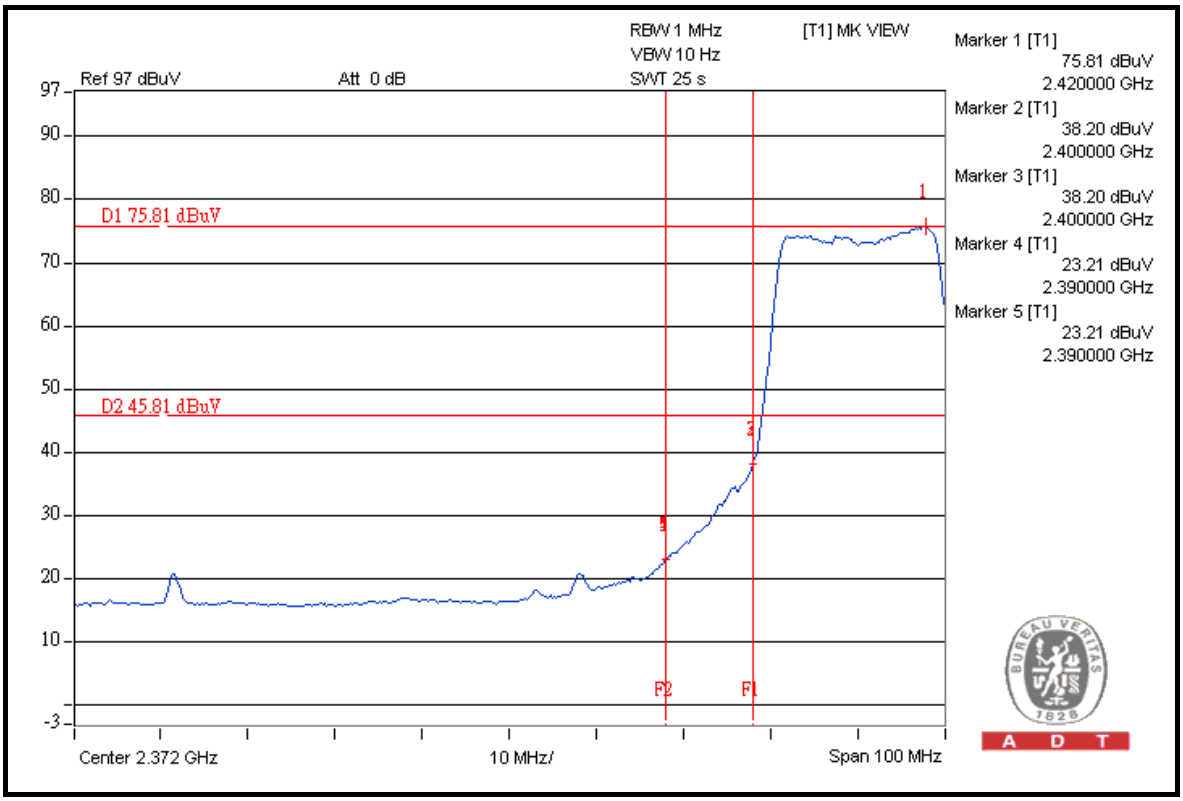
**RESTRICT BAND (2483.5 ~ 2500 MHz)**

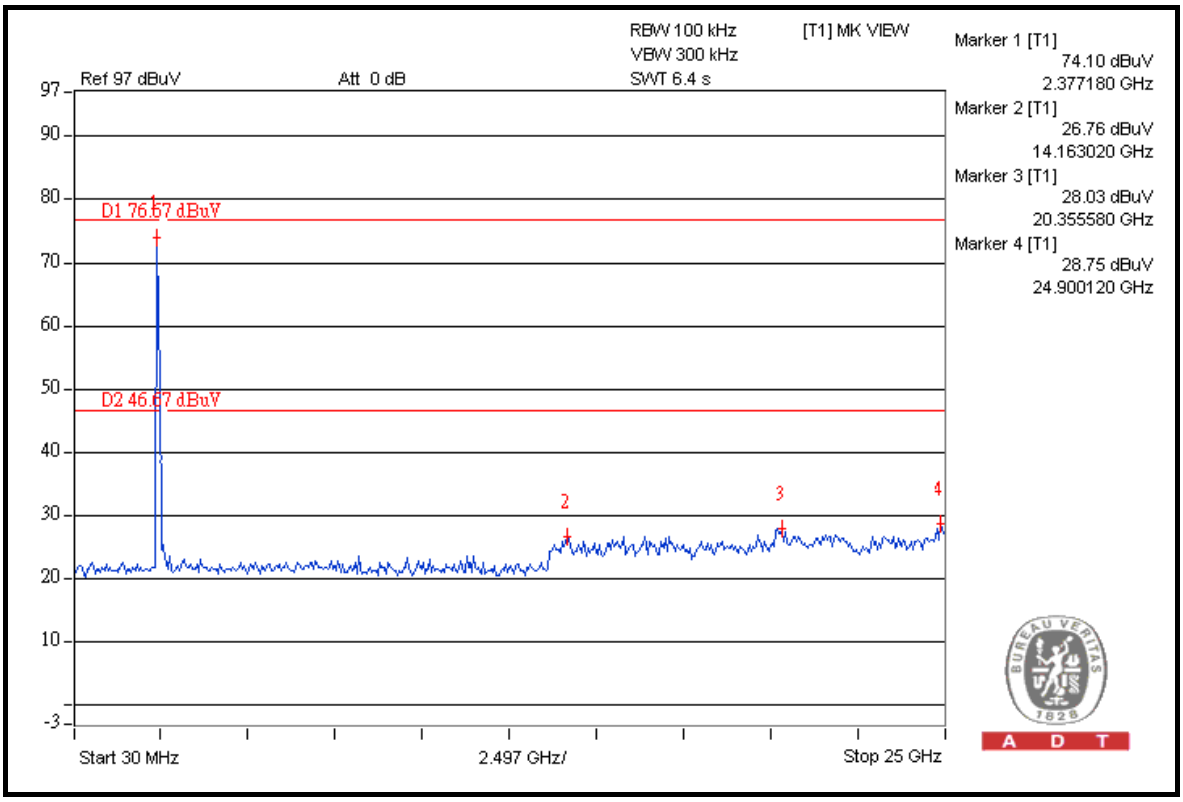
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2462.00 (PK) | 107.2 | 43.80 | 63.40 | 74.00 |
| 2462.00 (AV) | 97.8 | 46.68 | 51.12 | 54.00 |

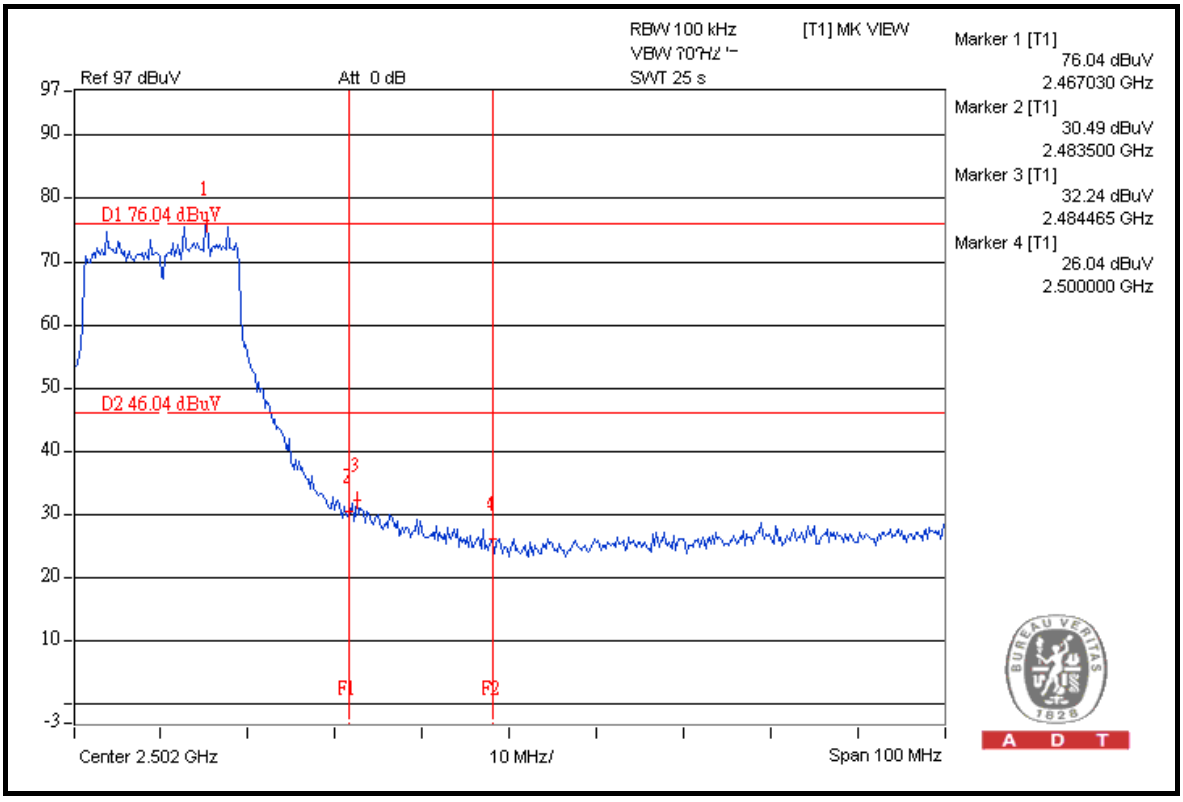
**NOTE:**

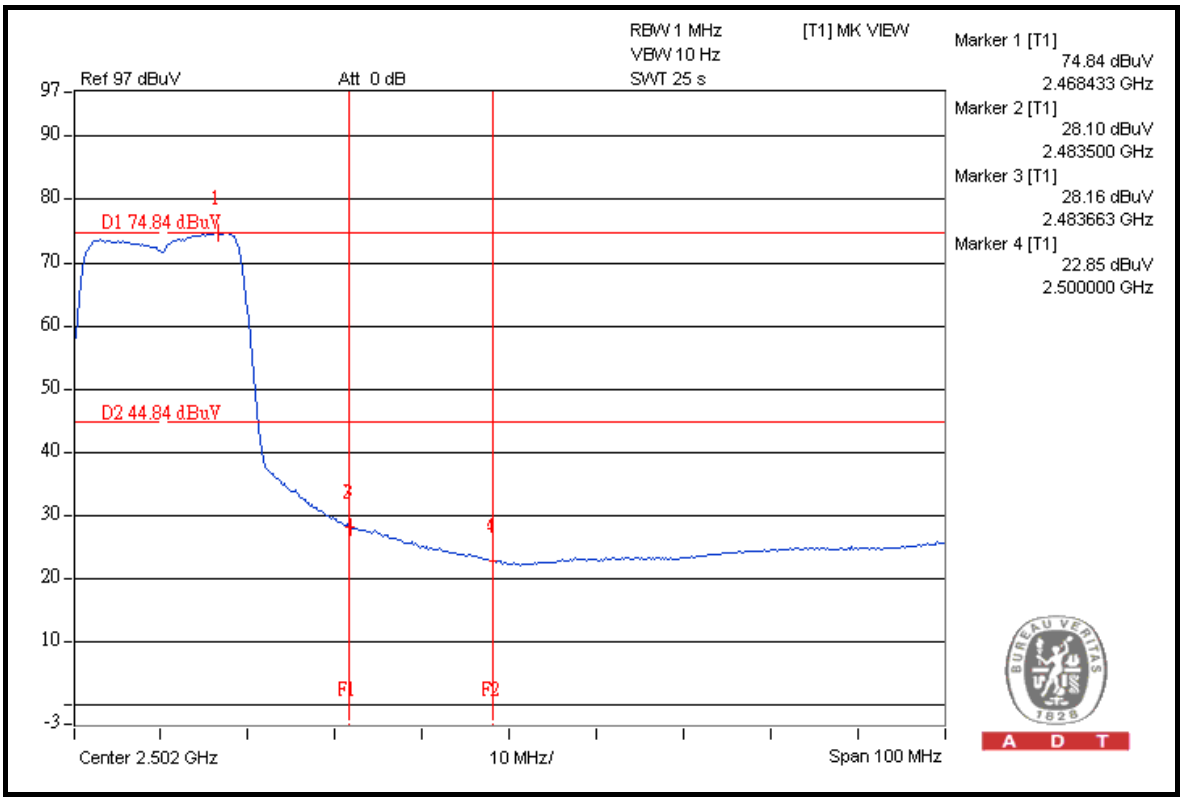
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

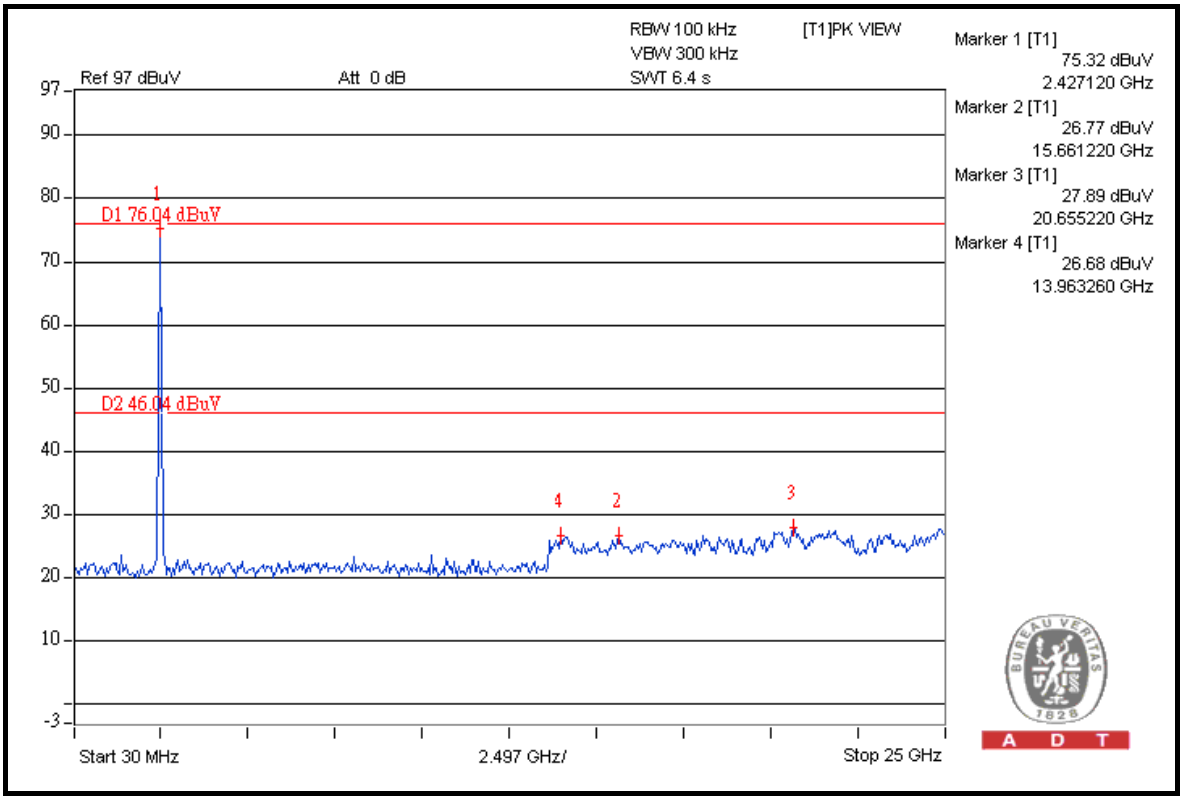

RBW 100 kHz
VBW 300 kHz
SWT 25 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 76.67 dBuV
D2 46.67 dBuV
Marker 1 [T1]
76.67 dBuV
2.407000 GHz
Marker 2 [T1]
45.47 dBuV
2.400000 GHz
Marker 3 [T1]
45.47 dBuV
2.400000 GHz
Marker 4 [T1]
26.83 dBuV
2.390000 GHz
Marker 5 [T1]
28.29 dBuV
2.386600 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 75.81 dBuV
D2 45.81 dBuV
Marker 1 [T1]
75.81 dBuV
2.420000 GHz
Marker 2 [T1]
38.20 dBuV
2.400000 GHz
Marker 3 [T1]
38.20 dBuV
2.400000 GHz
Marker 4 [T1]
23.21 dBuV
2.390000 GHz
Marker 5 [T1]
23.21 dBuV
2.390000 GHz
Center 2.372 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
74.10 dBuV
2.377180 GHz
Marker 2 [T1]
26.76 dBuV
14.163020 GHz
Marker 3 [T1]
28.03 dBuV
20.355580 GHz
Marker 4 [T1]
28.75 dBuV
24.900120 GHz
D1 76.67 dBuV
D2 46.67 dBuV
97
90
80
70
60
50
40
30
20
10
-3
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
SWT 25 s
Marker 1 [T1]
76.04 dBuV
2.467030 GHz
Marker 2 [T1]
30.49 dBuV
2.483500 GHz
Marker 3 [T1]
32.24 dBuV
2.484465 GHz
Marker 4 [T1]
26.04 dBuV
2.500000 GHz
D1 76.04 dBuV
D2 46.04 dBuV
97
90
80
70
60
50
40
30
20
10
-3
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 74.84 dBuV
D2 44.84 dBuV
Marker 1 [T1]
74.84 dBuV
2.468433 GHz
Marker 2 [T1]
28.10 dBuV
2.483500 GHz
Marker 3 [T1]
28.16 dBuV
2.483663 GHz
Marker 4 [T1]
22.85 dBuV
2.500000 GHz
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
D1 76.04 dBuV
D2 46.04 dBuV
Marker 1 [T1]
75.32 dBuV
2.427120 GHz
Marker 2 [T1]
26.77 dBuV
15.661220 GHz
Marker 3 [T1]
27.89 dBuV
20.655220 GHz
Marker 4 [T1]
26.68 dBuV
13.963260 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz

## 802.11n (40MHz)

**RESTRICT BAND (2310 ~ 2390 MHz)**

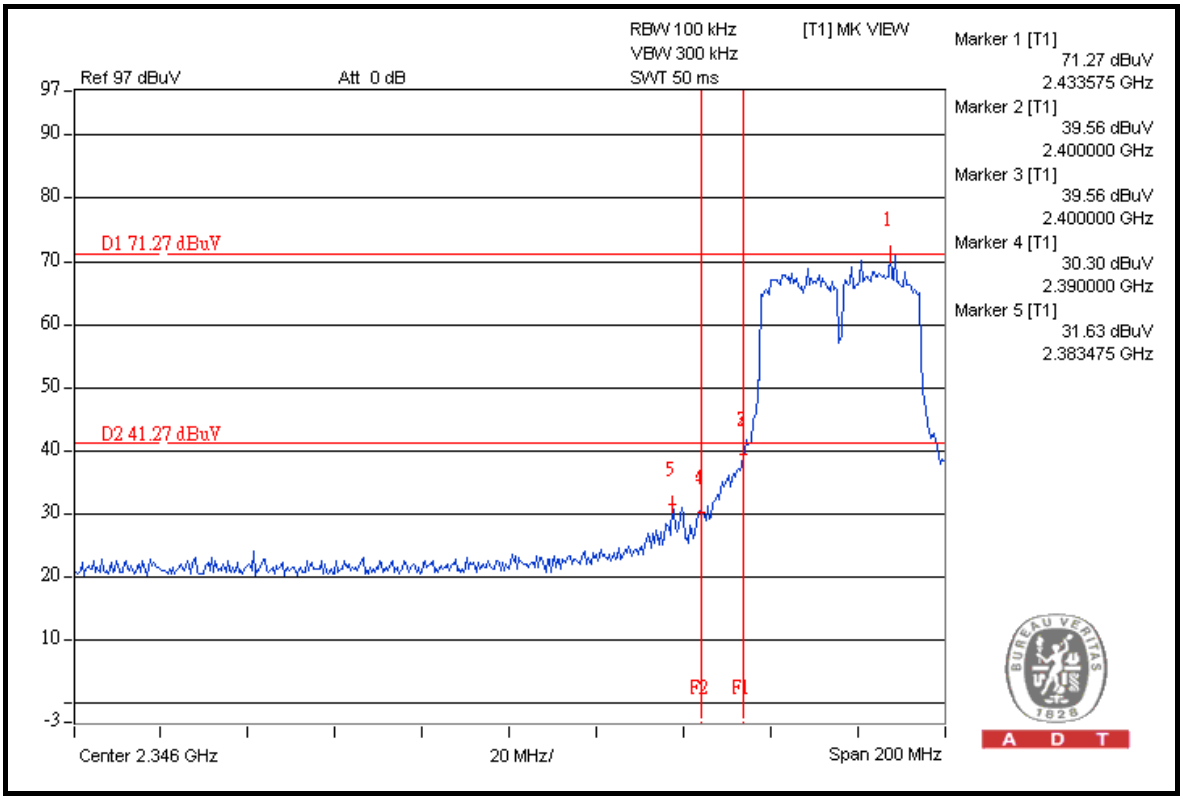
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2422.00 (PK) | 101.7 | 39.64 | 62.06 | 74.00 |
| 2422.00 (AV) | 91.8 | 42.44 | 49.36 | 54.00 |

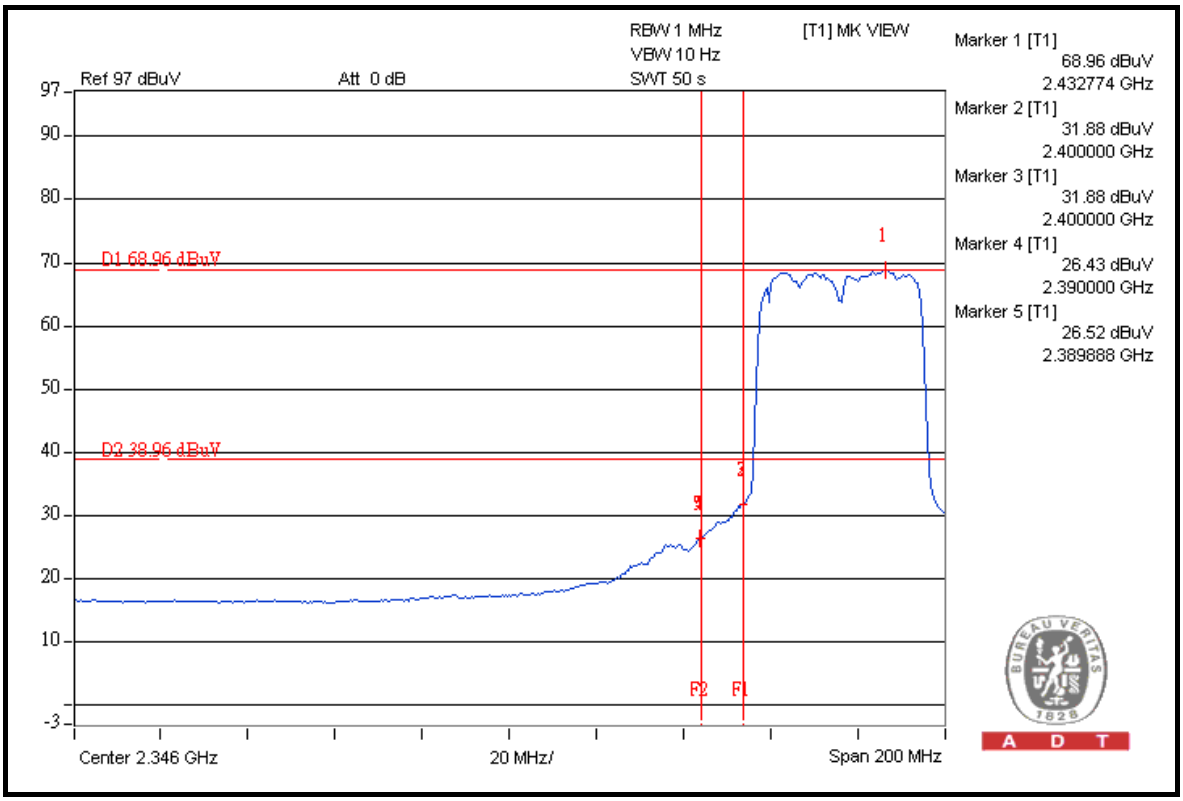
**RESTRICT BAND (2483.5 ~ 2500 MHz)**

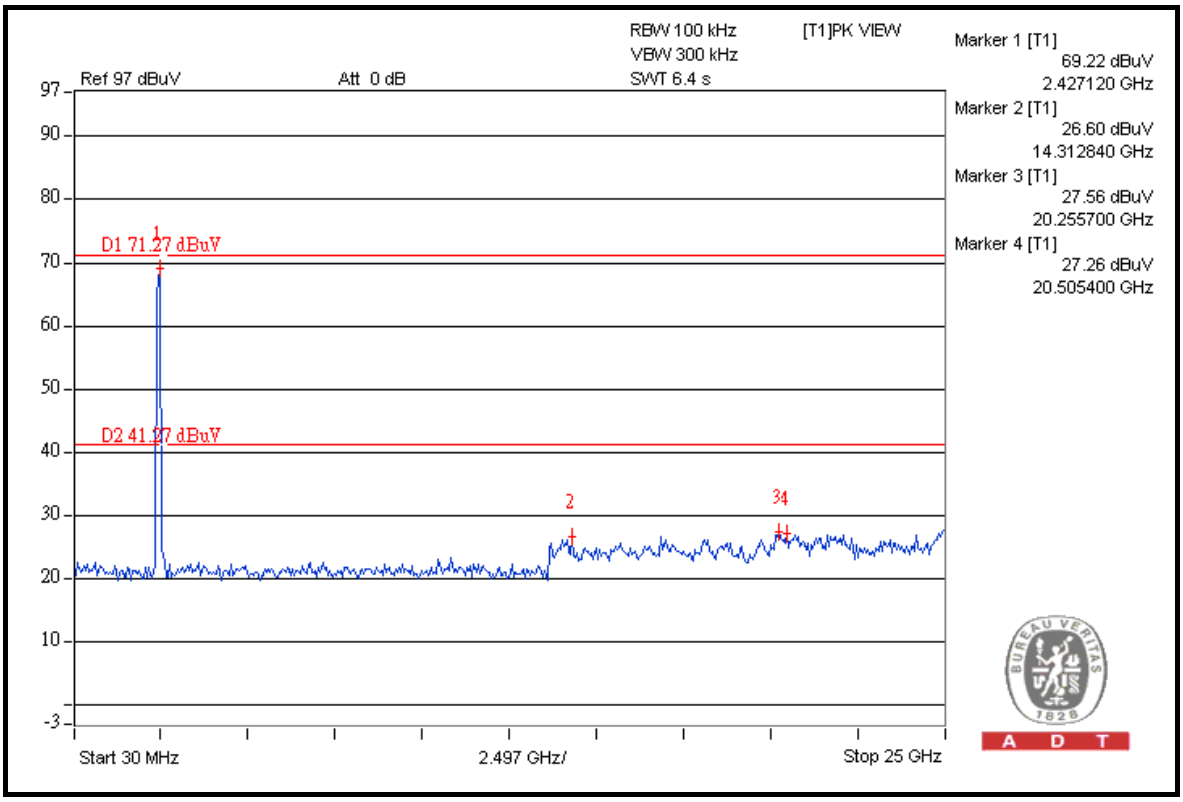
| FREQUENCY (MHz) | FUNDAMENTAL EMISSION (dBuV/m) | DELTA (dB) | MAXIMUM FIELD STRENGTH IN RESTRICT BAND (dBuV/m) | LIMIT (dBuV/m) |
|---|---|---|---|---|
| 2452.00 (PK) | 100.4 | 35.80 | 64.60 | 74.00 |
| 2452.00 (AV) | 90.9 | 38.27 | 52.63 | 54.00 |

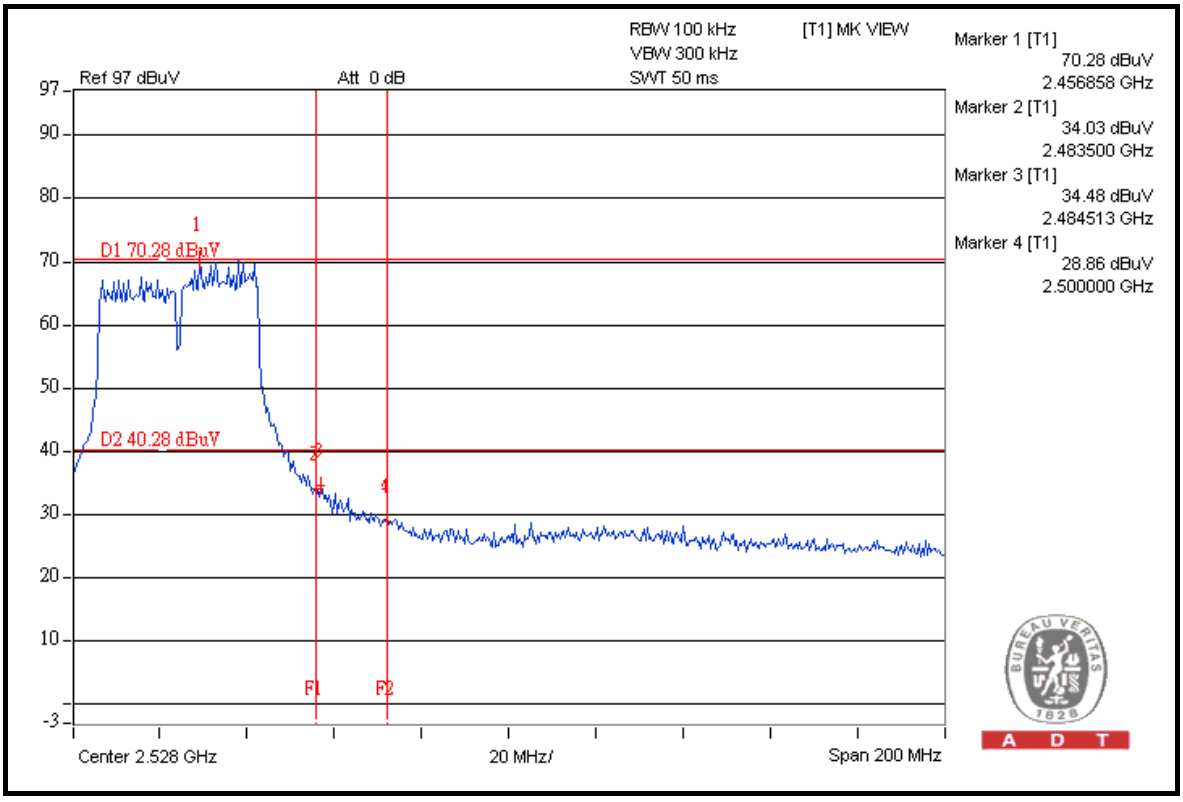
**NOTE:**

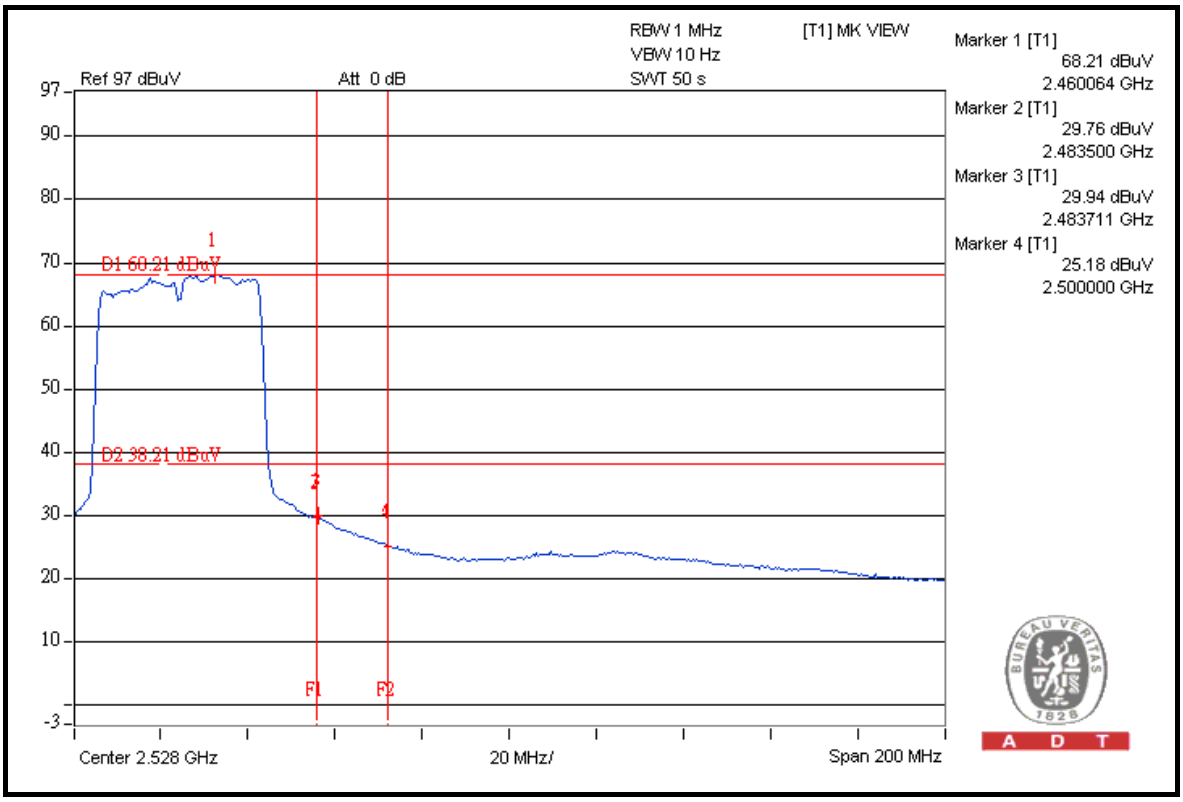
1. Delta = Amplitude between the peak of the fundamental and the peak of the band edge emission. Please check following 3 pages.
2. Maximum field strength in restrict band = Fundamental emission – Delta.

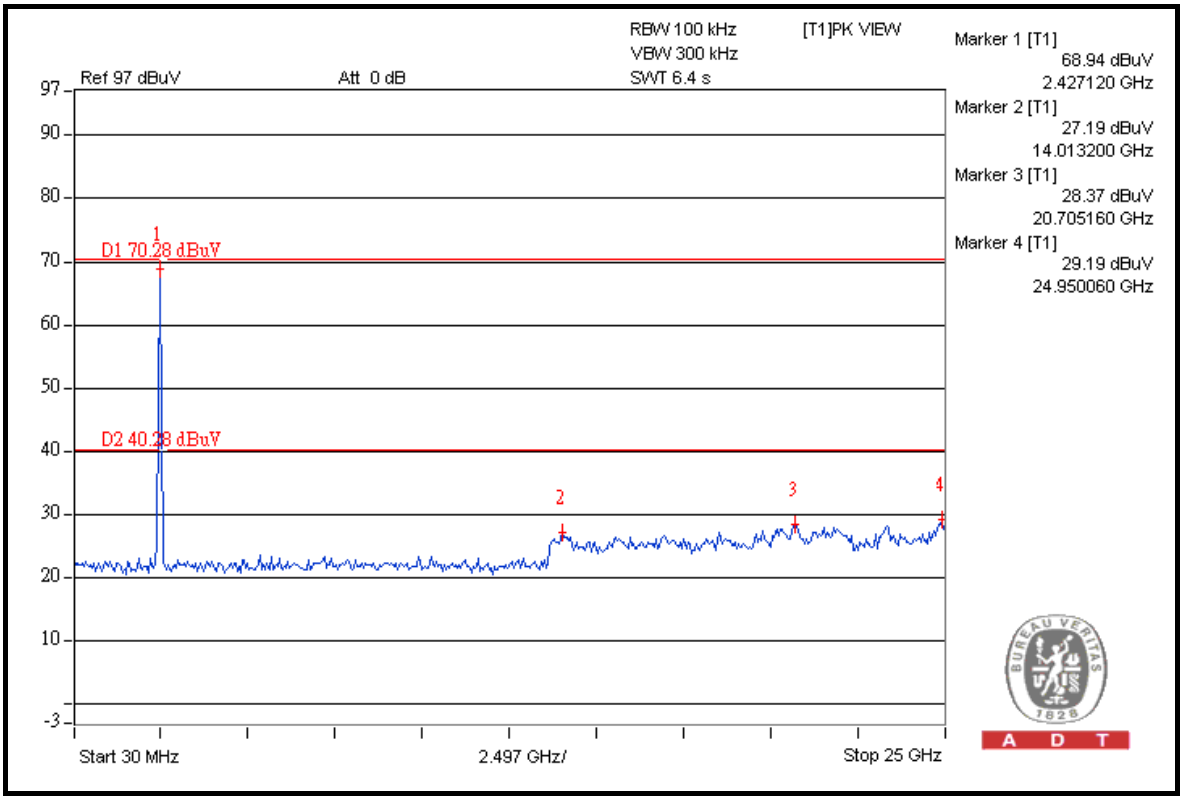

RBW 100 kHz
VBW 300 kHz
SWT 50 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 71.27 dBuV
D2 41.27 dBuV
Marker 1 [T1]
71.27 dBuV
2.433575 GHz
Marker 2 [T1]
39.56 dBuV
2.400000 GHz
Marker 3 [T1]
39.56 dBuV
2.400000 GHz
Marker 4 [T1]
30.30 dBuV
2.390000 GHz
Marker 5 [T1]
31.63 dBuV
2.383475 GHz
Center 2.346 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
D1 68.96 dBuV
D2 38.96 dBuV
Marker 1 [T1]
68.96 dBuV
2.432774 GHz
Marker 2 [T1]
31.88 dBuV
2.400000 GHz
Marker 3 [T1]
31.88 dBuV
2.400000 GHz
Marker 4 [T1]
26.43 dBuV
2.390000 GHz
Marker 5 [T1]
26.52 dBuV
2.389888 GHz
Center 2.346 GHz
20 MHz/
Span 200 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
69.22 dBuV
2.427120 GHz
Marker 2 [T1]
26.60 dBuV
14.312840 GHz
Marker 3 [T1]
27.56 dBuV
20.255700 GHz
Marker 4 [T1]
27.26 dBuV
20.505400 GHz
D1 71.27 dBuV
D2 41.27 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 300 kHz
SWT 50 ms
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
70.28 dBuV
2.456858 GHz
Marker 2 [T1]
34.03 dBuV
2.483500 GHz
Marker 3 [T1]
34.48 dBuV
2.484513 GHz
Marker 4 [T1]
28.86 dBuV
2.500000 GHz
D1 70.28 dBuV
D2 40.28 dBuV
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
68.21 dBuV
2.460064 GHz
Marker 2 [T1]
29.76 dBuV
2.483500 GHz
Marker 3 [T1]
29.94 dBuV
2.483711 GHz
Marker 4 [T1]
25.18 dBuV
2.500000 GHz
D1 60.21 dBuV
D2 38.21 dBuV
F1
F2
Center 2.528 GHz
20 MHz/
Span 200 MHz


RBW 100 kHz
VBW 300 kHz
SWT 6.4 s
[T1]PK VIEW
Ref 97 dBuV
Att 0 dB
Marker 1 [T1]
68.94 dBuV
2.427120 GHz
Marker 2 [T1]
27.19 dBuV
14.013200 GHz
Marker 3 [T1]
28.37 dBuV
20.705160 GHz
Marker 4 [T1]
29.19 dBuV
24.950060 GHz
D1 70.28 dBuV
D2 40.28 dBuV
Start 30 MHz
2.497 GHz/
Stop 25 GHz

# 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

# 6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:


**Linko EMC/RF Lab**:
Tel: 886-2-26052180
Fax: 886-2-26051924

**Hsin Chu EMC/RF Lab**:
Tel: 886-3-5935343
Fax: 886-3-5935342

**Hwa Ya EMC/RF/Safety Telecom Lab**:
Tel: 886-3-3183232
Fax: 886-3-3185050

**Web Site**: www.adt.com.tw


The address and road map of all our labs can be found in our web site also.

# 7. 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---**