

## RF Test Report

Applicant : unitech electronics co., ltd.  
Product Type : Rugged Handheld Computer  
Trade Name : unitech  
Model Number : EA630  
Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013  
Received Date : May 11, 2020  
Test Period : May 19 ~ May 26, 2020  
Issued Date : Jun. 16, 2020

### Issued by

A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade District,  
Taoyuan City 33465, Taiwan (R.O.C.)  
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Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW0010

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### **Revision History**

| Rev. | Issued Date   | Revisions     | Revised By |
|------|---------------|---------------|------------|
| 00   | Jun. 16, 2020 | Initial Issue | Nina Lin   |
|      |               |               |            |
|      |               |               |            |
|      |               |               |            |

## Verification of Compliance

Issued Date: Jun. 16, 2020

Applicant : unitech electronics co., ltd.  
Product Type : Rugged Handheld Computer  
Trade Name : unitech  
Model Number : EA630  
FCC ID : HLEEA630BTNFL  
EUT Rated Voltage : DC 5 V, 2.5 A / DC 9 V, 2 A  
Test Voltage : 120 Vac / 60 Hz  
Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013  
Test Result : Complied  
Performing Lab. : A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade District,  
Taoyuan City 33465, Taiwan (R.O.C.)  
Tel : +886-3-2710188 / Fax : +886-3-2710190  
Taiwan Accreditation Foundation accreditation number: 1330  
<http://www.atl-lab.com.tw/e-index.htm>



A Test Lab Techno Corp. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by A Test Lab Techno Corp. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Fly Lu  
(Manager) (Fly Lu)

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## 1 General Information

### 1.1. Summary of Test Result

| Standard     | Item                                    | Result | Remark |
|--------------|-----------------------------------------|--------|--------|
| 15.207       | AC Power Conducted Emission             | PASS   | -----  |
| 15.247(d)    | Transmitter Radiated Emissions          | PASS   | -----  |
| 15.247(b)(3) | Max. Output Power                       | PASS   | -----  |
| 15.247(a)(2) | 6 dB RF Bandwidth                       | PASS   | -----  |
| 15.247(e)    | Maximum Power Spectral Density          | PASS   | -----  |
| 15.247(d)    | Out of Band Conducted Spurious Emission | PASS   | -----  |
| 15.203       | Antenna Requirement                     | PASS   | -----  |

| Standard                                      | Description                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CFR47, Part 15, Subpart C                     | Intentional Radiators                                                                                                                                                                    |
| ANSI C63. 10: 2013                            | American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices                                                                                           |
| KDB 558074 D01 15.247<br>Meas Guidance v05r02 | GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES |

## 1.2. Measurement Uncertainty

| Test Item              | Frequency Range       | Uncertainty (dB) |
|------------------------|-----------------------|------------------|
| Conducted Emission     | 150 kHz ~ 30 MHz      | 2.68             |
| Radiated Emission      | 9 kHz ~ 30 MHz        | 2.14             |
|                        | 30 MHz ~ 1000 MHz     | 4.99             |
|                        | 1000 MHz ~ 18000 MHz  | 4.99             |
|                        | 18000 MHz ~ 26500 MHz | 4.23             |
|                        | 26500 MHz ~ 40000 MHz | 4.39             |
| Conducted Output Power | 0.92 dB               |                  |
| RF Bandwidth           | 4.79 %                |                  |
| Power Spectral Density | 0.92 dB               |                  |

Decision Rule

- ☒ Uncertainty is not included.
- ☐ Uncertainty is included.

## 2 EUT Description

|                      |                                                                                                                |                 |
|----------------------|----------------------------------------------------------------------------------------------------------------|-----------------|
| Applicant            | unitech electronics co., ltd.<br>5F., No.136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist, New Taipei City, Taiwan |                 |
| Manufacturer         | unitech electronics co., ltd.<br>5F., No.136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist, New Taipei City, Taiwan |                 |
| Product Type         | Rugged Handheld Computer                                                                                       |                 |
| Trade Name           | unitech                                                                                                        |                 |
| Model No.            | EA630                                                                                                          |                 |
| IMEI No.             | IMEI1: 355239110051120, IMEI2: 355239115204005                                                                 |                 |
| FCC ID               | HLEEA630BTNFL                                                                                                  |                 |
| Frequency Range      | 2402 ~ 2480 MHz                                                                                                |                 |
| Modulation Type      | GFSK                                                                                                           |                 |
| Operate Temp. Range  | -10 ~ +50 °C                                                                                                   |                 |
| Antenna information  | Type                                                                                                           | Max. Gain (dBi) |
|                      | PIFA Antenna                                                                                                   | 0.6             |
| Max. RF Output Power | LE, GFSK: 0.00140 W                                                                                            |                 |
|                      | 2LE, GFSK: 0.00145 W                                                                                           |                 |

### 3 Test Methodology

#### 3.1. Mode of Operation

Decision of Test ATL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

| Test Mode                            |
|--------------------------------------|
| Mode 1: Transmit mode                |
| Mode 2: LE, GFSK Continuous TX Mode  |
| Mode 3: 2LE, GFSK Continuous TX Mode |

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes.

By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "X axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %.

#### 3.2. EUT Test Step

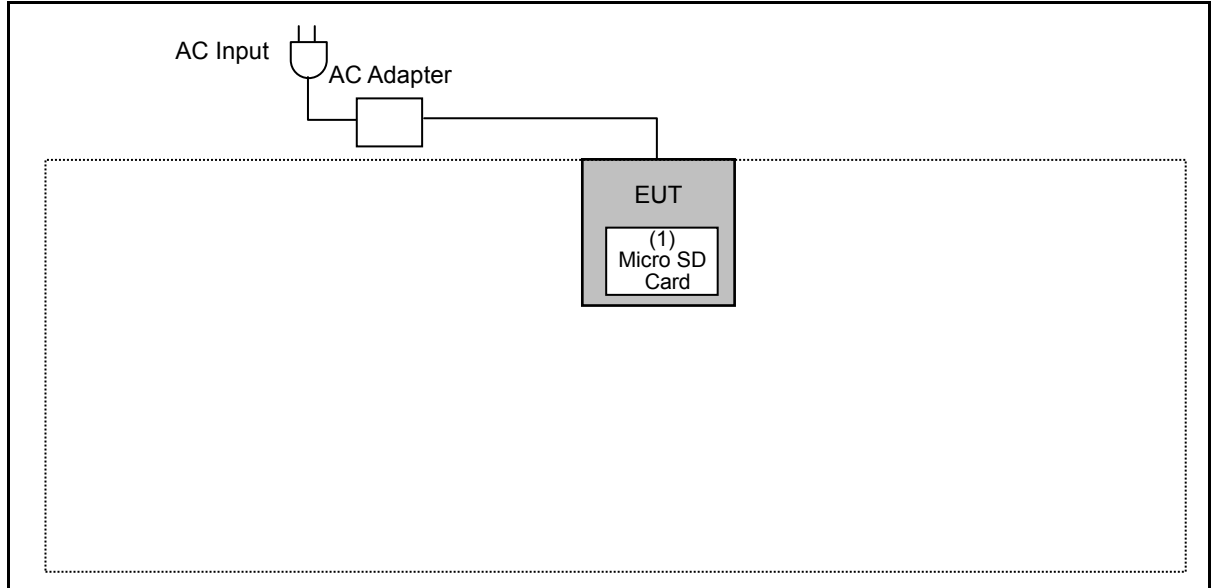
|   |                                                                |
|---|----------------------------------------------------------------|
| 1 | Setup the EUT shown on "Configuration of Test System Details". |
| 2 | Turn on the power of all equipment.                            |
| 3 | Turn on TX function.                                           |
| 4 | EUT run test program.                                          |

| Measurement Software |                    |          |         |
|----------------------|--------------------|----------|---------|
| No.                  | Description        | Software | Version |
| 1                    | Conducted Emission | EZ EMC   | 1.1.4.3 |
| 2                    | Radiated Emission  | EZ EMC   | 1.1.4.4 |

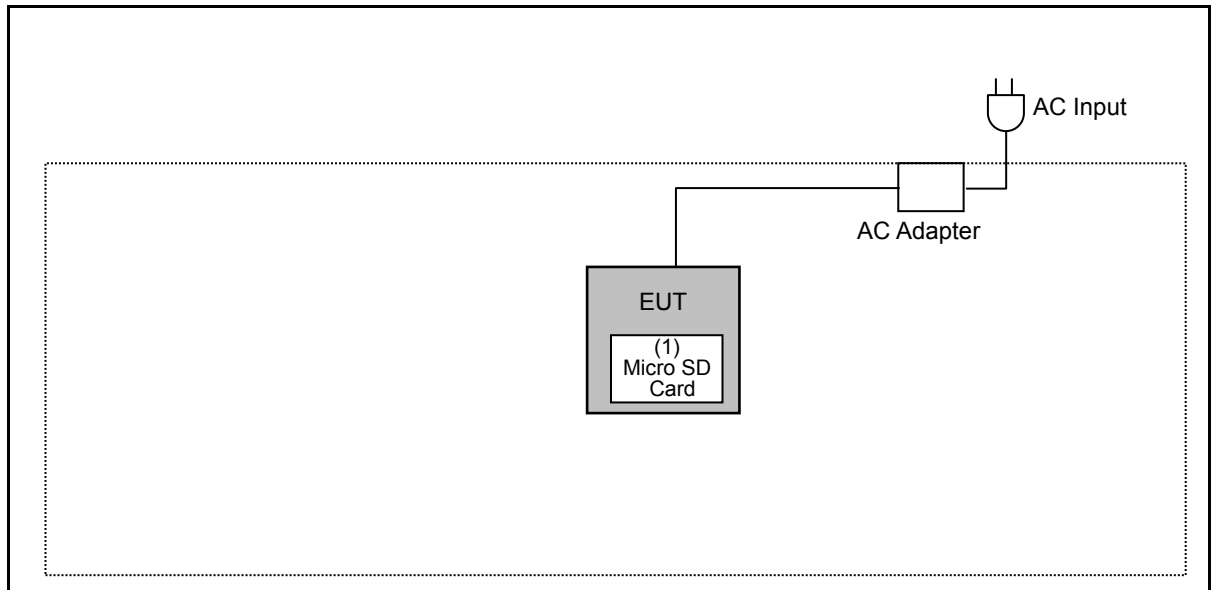


### 3.3. Configuration of Test System Details

Conducted Emission



Radiated Emissions



| Devices Description |               |              |                 |               |            |
|---------------------|---------------|--------------|-----------------|---------------|------------|
| Product             |               | Manufacturer | Model Number    | Serial Number | Power Cord |
| (1)                 | Micro SD Card | Transcend    | 9153BA 8G 07DS1 | ---           | ---        |



### 3.4. Test Instruments

For Conducted Emission

Test Period: May 26, 2020

Testing Engineer: Louis Shen

| Equipment     | Manufacturer | Model Number   | Serial Number | Cal. Date  | Cal. Period |
|---------------|--------------|----------------|---------------|------------|-------------|
| Test Receiver | R&S          | ESCI           | 100367        | 05/22/2020 | 1 year      |
| LISN          | R&S          | ENV216         | 101040        | 03/23/2020 | 1 year      |
| LISN          | R&S          | ENV216         | 101041        | 04/06/2020 | 1 year      |
| RF Cable      | Woken        | 00100D1380194M | TE-02-03      | 05/22/2020 | 1 year      |

For Radiated Emissions

Test Period: May 19, 2020

Testing Engineer: Marc Yeh

| Equipment                           | Manufacturer                   | Model Number           | Serial Number | Cal. Date  | Cal. Period |
|-------------------------------------|--------------------------------|------------------------|---------------|------------|-------------|
| Spectrum Analyzer<br>(10 Hz~44 GHz) | Keysight                       | N9010A                 | MY52221312    | 01/13/2020 | 1 year      |
| Pre Amplifier<br>(1~26.5 GHz)       | Agilent                        | 8449B                  | 3008A02237    | 10/18/2019 | 1 year      |
| Pre Amplifier<br>(100 kHz~1.3 GHz)  | Agilent                        | 8447D                  | 2944A11119    | 01/15/2020 | 1 year      |
| Pre Amplifier<br>(1~26.5 GHz)       | EMCI                           | EMC012645SE            | 980289        | 01/15/2020 | 1 year      |
| Broadband Antenna                   | Schwarzbeck                    | VULB9168               | 416           | 10/23/2019 | 1 year      |
| Horn Antenna<br>(1~18 GHz)          | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA9120D              | 9120D-550     | 08/22/2019 | 1 year      |
| Loop Antenna                        | COM-POWER<br>CORPORATION       | AL-130                 | 121014        | 03/27/2020 | 1 year      |
| RF Cable                            | EMCI                           | EMC104-N-N-6000        | TE01-1        | 02/20/2020 | 1 year      |
| Microwave Cable                     | EMCI                           | EMC104-SM-SM-1<br>3000 | 170814        | 10/29/2019 | 1 year      |
| Microwave Cable                     | EMCI                           | EMC102-KM-KM-1<br>4000 | 151001        | 02/20/2020 | 1 year      |

Note: N.C.R. = No Calibration Request.



For Conducted

Test Period: May 19 ~ May 20, 2020

Testing Engineer: Peter Shui

| Equipment                             | Manufacturer | Model Number | Serial Number | Cal. Date  | Cal. Period |
|---------------------------------------|--------------|--------------|---------------|------------|-------------|
| Power Sensor                          | Agilent      | N1921A       | MY45241957    | 12/11/2019 | 1 year      |
| Power Meter                           | Agilent      | N1911A       | MY45101619    | 12/11/2019 | 1 year      |
| Spectrum Analyzer<br>(20 Hz~26.5 GHz) | Agilent      | N9020A       | US47520902    | 09/18/2019 | 1 year      |

Note: N.C.R. = No Calibration Request.

### 3.5. Test Site Environment

| Items                      | Required (IEC 60068-1) | Actual   |
|----------------------------|------------------------|----------|
| Temperature (°C)           | 15-35                  | 20-30    |
| Humidity (%RH)             | 25-75                  | 45-75    |
| Barometric pressure (mbar) | 860-1060               | 990-1005 |

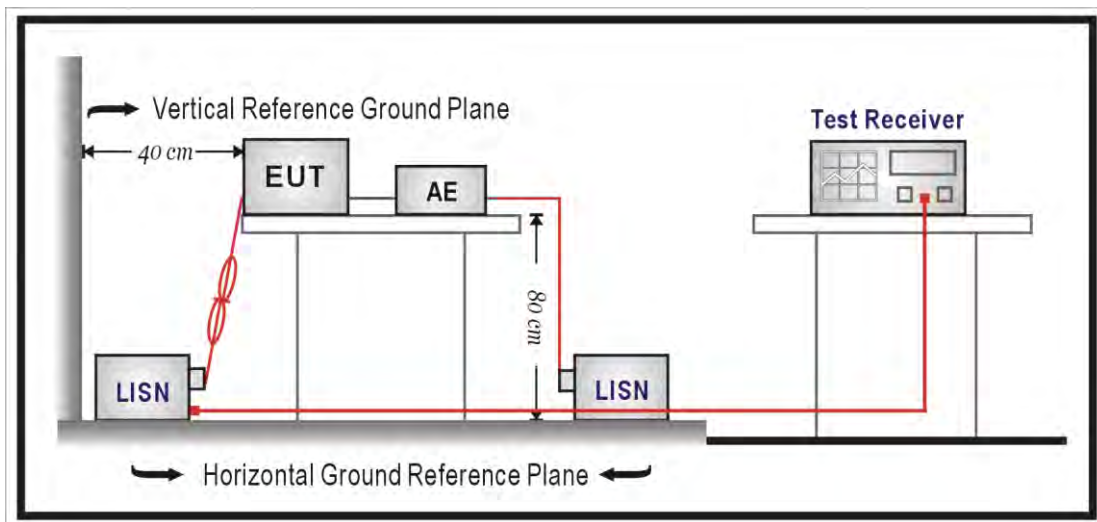
## 4 Measurement Procedure

### 4.1. AC Power Line Conducted Emission Measurement

#### ■ Limit

| Frequency (MHz) | Quasi-peak | Average  |
|-----------------|------------|----------|
| 0.15 - 0.5      | 66 to 56   | 56 to 46 |
| 0.50 - 5.0      | 56         | 46       |
| 5.0 - 30.0      | 60         | 50       |

#### ■ Test Setup



#### ■ Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a  $50\ \Omega // 50\ \mu\text{H}$  coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a  $50\ \Omega // 50\ \mu\text{H}$  coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50  $\Omega$  ports of the LISN shall be resistively terminated into 50  $\Omega$  loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

## 4.2. Radiated Emission Measurement

### ■ Limit

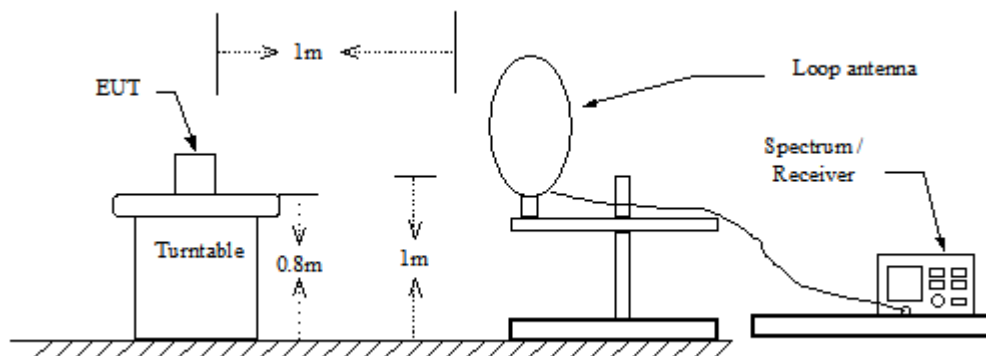
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency<br>(MHz) | Field Strength<br>( $\mu\text{V/m}$ at meter) | Measurement Distance<br>(meters) |
|--------------------|-----------------------------------------------|----------------------------------|
| 0.009 – 0.490      | $2400 / F$ (kHz)                              | 300                              |
| 0.490 – 1.705      | $24000 / F$ (kHz)                             | 30                               |
| 1.705 – 30.0       | 30                                            | 30                               |
| 30 - 88            | 100**                                         | 3                                |
| 88-216             | 150**                                         | 3                                |
| 216-960            | 200**                                         | 3                                |
| Above 960          | 500                                           | 3                                |

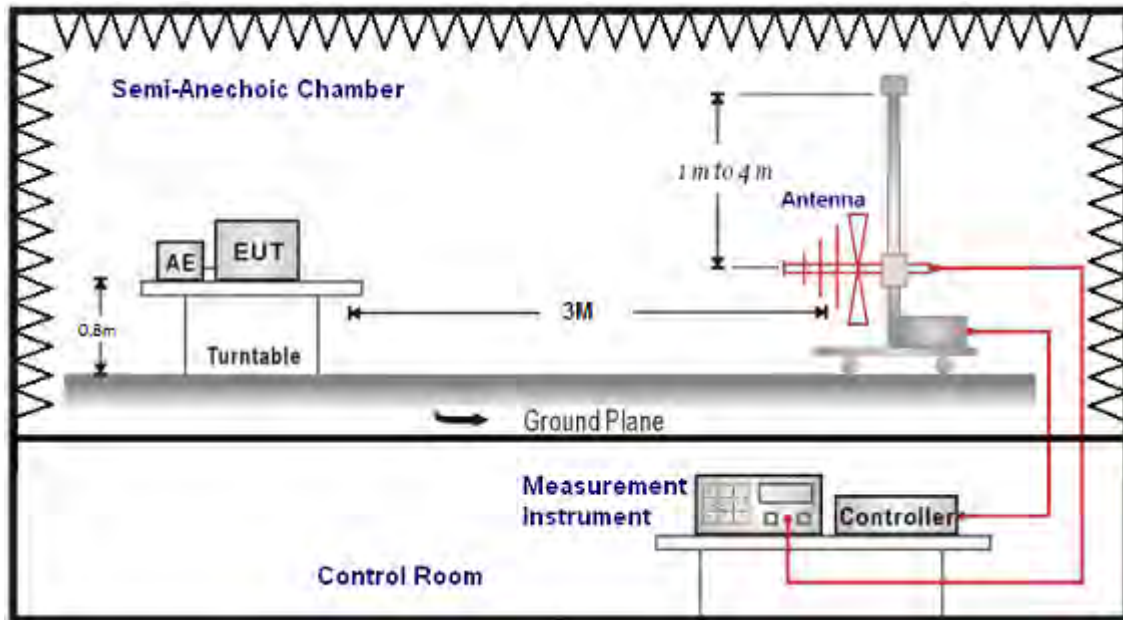
\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

### ■ Setup

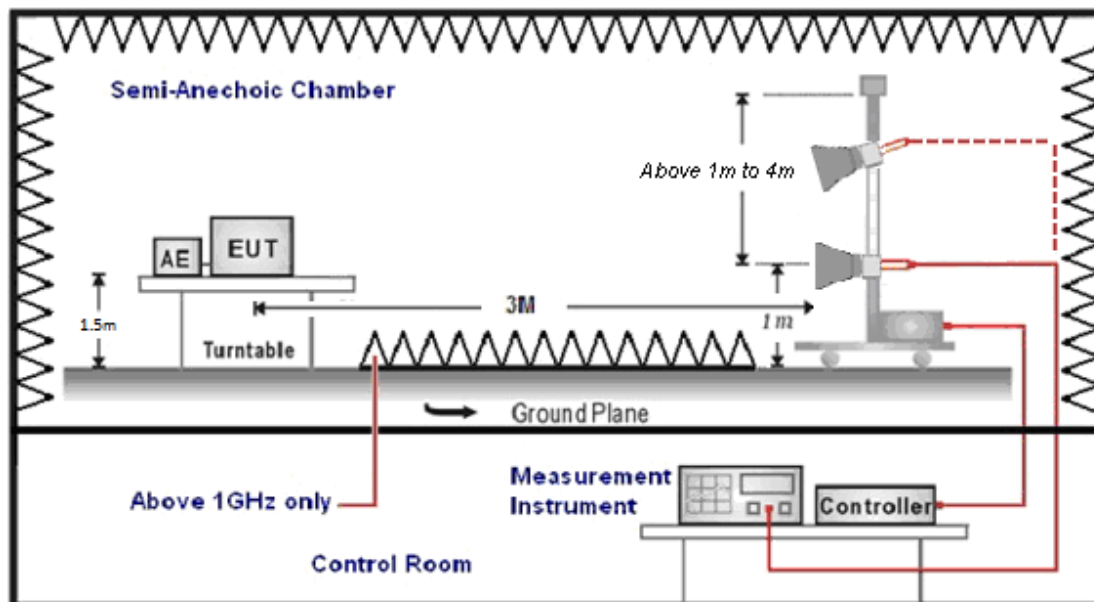
9 kHz ~ 30 MHz



Below 1 GHz



Above 1 GHz



## ■ Test Procedure

Final radiation measurements were made on a three-meter, Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 or 1.5 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 250 MHz to 2.5 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously & Measurements spectrum range from 9 kHz to 26.5 GHz is investigated.

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

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements when Duty cycle  $>0.98$  /  $1/T$  for average measurements when Duty cycle  $<0.98$ . A nonconductive material surrounded the EUT to supporting the EUT for standing on three orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

SCHWARZBECK MESS-ELEKTRONIK Biconilog Antenna at 3 Meter and the SCHWARZBECK Double Ridged Guide Antenna was used in frequencies 1 –26.5 GHz at a distance of 3 meter. The antenna at an angle toward the source of the emission. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.

The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in micro volts pre meter (uV/m).

The actual field intensity in decibels referenced to 1 microvolt in to field intensity in micro volts per meter (dBuV/m).



The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

$$(1) \text{ Amplitude (dBuV/m) = FI (dBuV) + AF (dBuV) + CL (dBuV) - Gain (dB)}$$

FI= Reading of the field intensity.

AF= Antenna factor.

CL= Cable loss.

P.S Amplitude is auto calculate in spectrum analyzer.

$$(2) \text{ Actual Amplitude (dBuV/m) = Amplitude (dBuV) - Dis(dB)}$$

The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:

(a) For fundamental frequency : Transmitter Output < +30 dBm

(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

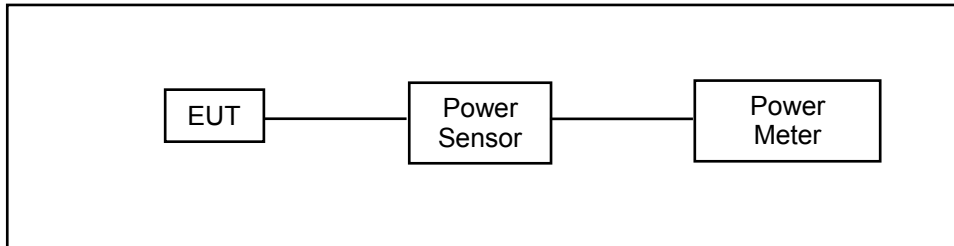
Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

### 4.3. Maximum Conducted Output Power Measurement

#### ■ Limit

For systems using digital modulation in the 2400-2483.5 MHz, the limit for peak output power is 30 dBm.

#### ■ Test Setup



#### ■ Test Procedure

The testing follows the Measurement Procedure of ANSI C63.10:2013 section 11.9.2.3.2 Method AVGPM.

The tests below are run with the EUT's transmitter set at high power in TX mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. Remove the Subjective device's antenna and connect the RF output port to power sensor..

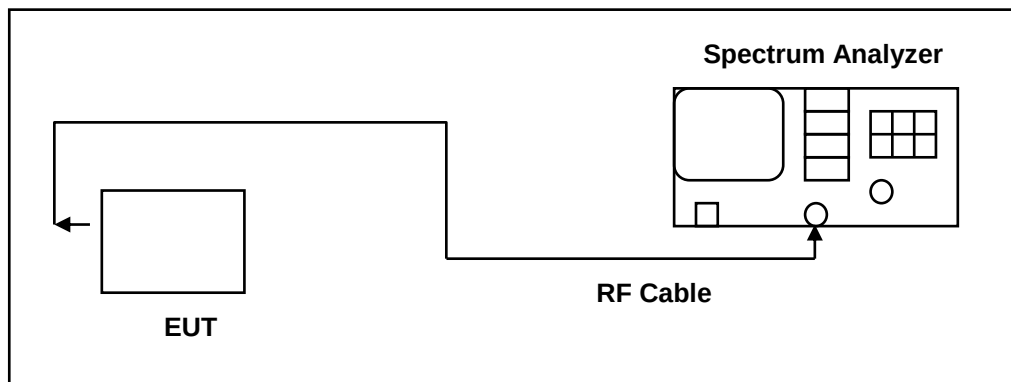
#### 4.4. 6 dB RF Bandwidth Measurement

##### ■ Limit

6 dB RF Bandwidth: Systems using digital modulation techniques may operate in the 2400–2483.5 MHz bands. The minimum 6 dB band-width shall be at least 500 kHz.

99 % Occupied Bandwidth: N/A

##### ■ Test Setup



##### ■ Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10-2013 section 11.8.2 option2 for compliance to FCC 47CFR 15.247 requirements.

6 dB RF Bandwidth: The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A peak output reading was taken, a DISPLAY line was drawn 6 dB lower than peak level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

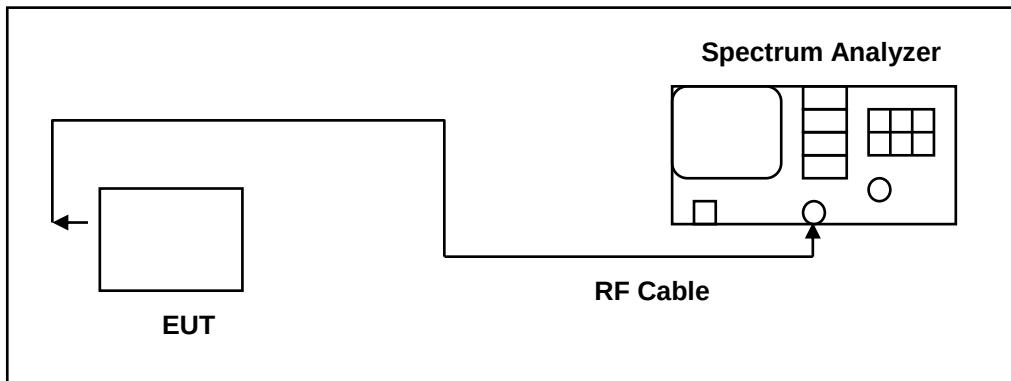
The test was performed at 3 channels (Channel low, middle, high)

## 4.5. Maximum Power Density Measurement

### ■ Limit

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

### ■ Test Setup



### ■ Test Procedure

The EUT tested to DTS test procedure of ANSI C63.10:2013 section 11.10.2 Method PKPSD.

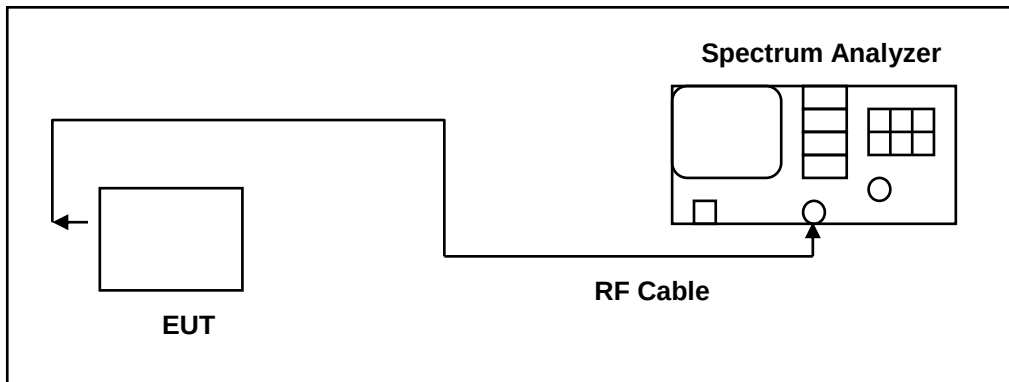
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 4.6. Out of Band Conducted Emissions Measurement

##### ■ Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

##### ■ Test Setup



##### ■ Test Procedure

In any 100 kHz bandwidth outside the EUT pass band, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20 dB below that of the maximum in-band 100 kHz emission, antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the pass band. The test was performed at 3 channels.

#### 4.7. Antenna Measurement

##### ■ Limit

For intentional device, according to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And According to 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

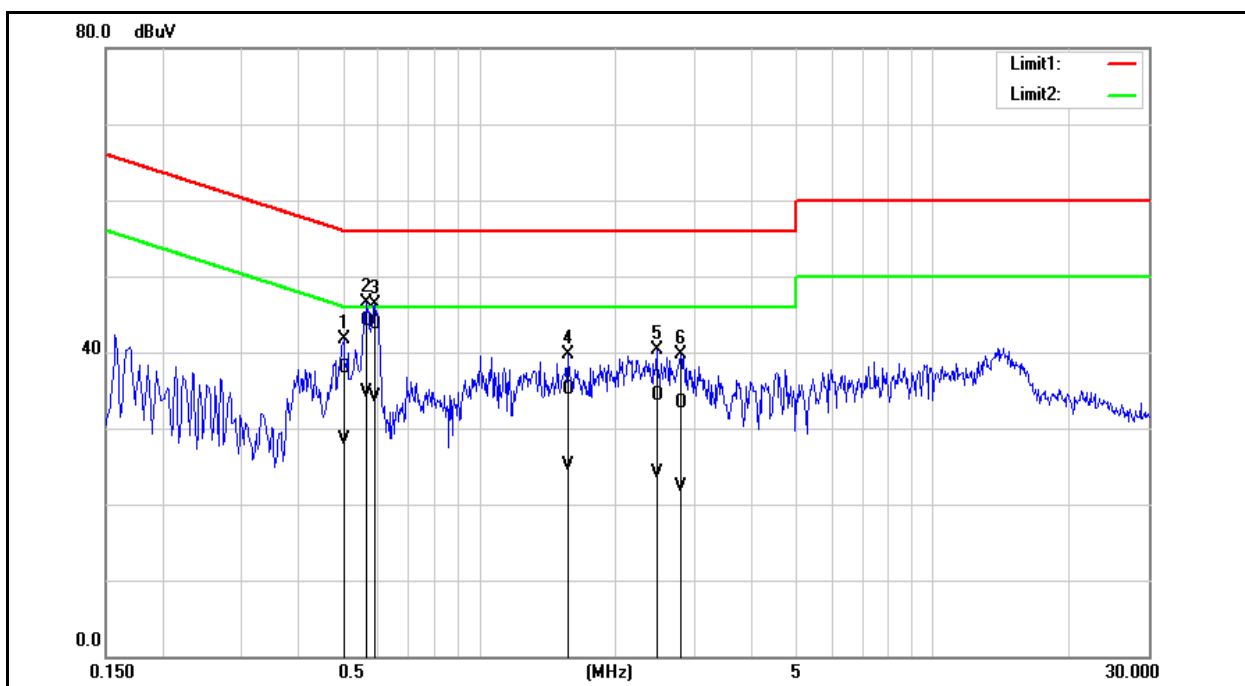
##### ■ Antenna Connector Construction

See section 2 – antenna information.

## 5 Test Results

### Annex A. Conducted Emission

|              |                    |                      |                |
|--------------|--------------------|----------------------|----------------|
| Standard:    | FCC Part 15.247    | Line:                | L1             |
| Test item:   | Conducted Emission | Power:               | AC 120 V/60 Hz |
| Mode:        | Mode 1             | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Description: |                    |                      |                |

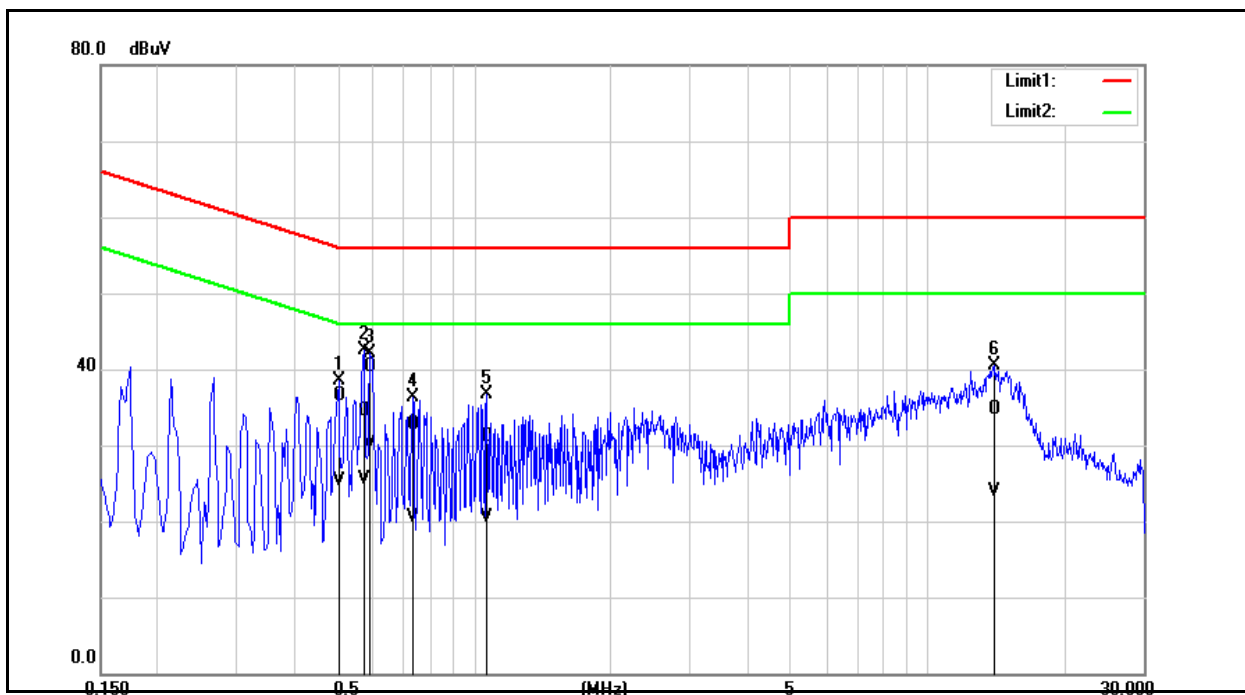


| No. | Frequency<br>(MHz) | QP<br>reading<br>(dBuV) | AVG<br>reading<br>(dBuV) | Correction<br>factor<br>(dB) | QP<br>result<br>(dBuV) | AVG<br>result<br>(dBuV) | QP<br>limit<br>(dBuV) | AVG<br>limit<br>(dBuV) | QP<br>margin<br>(dB) | AVG<br>margin<br>(dB) | Remark |
|-----|--------------------|-------------------------|--------------------------|------------------------------|------------------------|-------------------------|-----------------------|------------------------|----------------------|-----------------------|--------|
| 1   | 0.5020             | 28.18                   | 18.87                    | 9.71                         | 37.89                  | 28.58                   | 56.00                 | 46.00                  | -18.11               | -17.42                | Pass   |
| 2   | 0.5660             | 34.36                   | 25.08                    | 9.71                         | 44.07                  | 34.79                   | 56.00                 | 46.00                  | -11.93               | -11.21                | Pass   |
| 3   | 0.5900             | 34.03                   | 24.31                    | 9.71                         | 43.74                  | 34.02                   | 56.00                 | 46.00                  | -12.26               | -11.98                | Pass   |
| 4   | 1.5740             | 25.30                   | 15.46                    | 9.74                         | 35.04                  | 25.20                   | 56.00                 | 46.00                  | -20.96               | -20.80                | Pass   |
| 5   | 2.4660             | 24.46                   | 14.24                    | 9.77                         | 34.23                  | 24.01                   | 56.00                 | 46.00                  | -21.77               | -21.99                | Pass   |
| 6   | 2.7940             | 23.45                   | 12.59                    | 9.77                         | 33.22                  | 22.36                   | 56.00                 | 46.00                  | -22.78               | -23.64                | Pass   |

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

|              |                    |                      |                |
|--------------|--------------------|----------------------|----------------|
| Standard:    | FCC Part 15.247    | Line:                | N              |
| Test item:   | Conducted Emission | Power:               | AC 120 V/60 Hz |
| Mode:        | Mode 1             | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Description: |                    |                      |                |



| No. | Frequency<br>(MHz) | QP<br>reading<br>(dBuV) | AVG<br>reading<br>(dBuV) | Correction<br>factor<br>(dB) | QP<br>result<br>(dBuV) | AVG<br>result<br>(dBuV) | QP<br>limit<br>(dBuV) | AVG<br>limit<br>(dBuV) | QP<br>margin<br>(dB) | AVG<br>margin<br>(dB) | Remark |
|-----|--------------------|-------------------------|--------------------------|------------------------------|------------------------|-------------------------|-----------------------|------------------------|----------------------|-----------------------|--------|
| 1   | 0.5020             | 26.88                   | 15.64                    | 9.70                         | 36.58                  | 25.34                   | 56.00                 | 46.00                  | -19.42               | -20.66                | Pass   |
| 2   | 0.5740             | 24.86                   | 15.79                    | 9.70                         | 34.56                  | 25.49                   | 56.00                 | 46.00                  | -21.44               | -20.51                | Pass   |
| 3   | 0.5900             | 30.63                   | 20.37                    | 9.70                         | 40.33                  | 30.07                   | 56.00                 | 46.00                  | -15.67               | -15.93                | Pass   |
| 4   | 0.7340             | 22.96                   | 10.85                    | 9.69                         | 32.65                  | 20.54                   | 56.00                 | 46.00                  | -23.35               | -25.46                | Pass   |
| 5   | 1.0660             | 21.33                   | 10.74                    | 9.70                         | 31.03                  | 20.44                   | 56.00                 | 46.00                  | -24.97               | -25.56                | Pass   |
| 6   | 14.0660            | 24.77                   | 13.85                    | 9.97                         | 34.74                  | 23.82                   | 60.00                 | 50.00                  | -25.26               | -26.18                | Pass   |

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

## Annex B. Conducted Test Results

### Maximum Conducted Output Power Measurement

| Test Mode       | Mode 2        |         |             |                |             |
|-----------------|---------------|---------|-------------|----------------|-------------|
| Frequency (MHz) | Average Power |         | Peak Power  |                | Limit (dBm) |
|                 | (dBm)         | (W)     | (dBm)       | (W)            |             |
| 2402            | -0.09         | 0.00098 | 0.10        | 0.00102        | ≤ 30        |
| 2440            | -0.28         | 0.00094 | -0.11       | 0.00097        | ≤ 30        |
| 2480            | 1.16          | 0.00131 | <b>1.45</b> | <b>0.00140</b> | ≤ 30        |

| Test Mode       | Mode 3        |         |             |                |             |
|-----------------|---------------|---------|-------------|----------------|-------------|
| Frequency (MHz) | Average Power |         | Peak Power  |                | Limit (dBm) |
|                 | (dBm)         | (W)     | (dBm)       | (W)            |             |
| 2402            | -0.15         | 0.00097 | 0.32        | 0.00108        | ≤ 30        |
| 2440            | -0.31         | 0.00093 | 0.17        | 0.00104        | ≤ 30        |
| 2480            | 1.14          | 0.00130 | <b>1.62</b> | <b>0.00145</b> | ≤ 30        |

Note: The relevant measured result has the offset with cable loss already.

### 6 dB RF Bandwidth Measurement

| Test Mode       | Mode 2                    |             |
|-----------------|---------------------------|-------------|
| Frequency (MHz) | Measurement Results (kHz) | Limit (kHz) |
| 2402            | 662.500                   | ≥ 500       |
| 2440            | 671.500                   | ≥ 500       |
| 2480            | 668.300                   | ≥ 500       |

| Test Mode       | Mode 3                    |             |
|-----------------|---------------------------|-------------|
| Frequency (MHz) | Measurement Results (kHz) | Limit (kHz) |
| 2402            | 1145.000                  | ≥ 500       |
| 2440            | 1137.000                  | ≥ 500       |
| 2480            | 1137.000                  | ≥ 500       |





■ Test Graphs

| Mode 2   |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| 2402 MHz |    |
| 2440 MHz |   |
| 2480 MHz |  |



| Mode 3   |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| 2402 MHz |    |
| 2440 MHz |   |
| 2480 MHz |  |



#### Maximum Power Density Measurement

| Test Mode       | Mode 2                           |             |
|-----------------|----------------------------------|-------------|
| Frequency (MHz) | Measurement Results (dBm/ 3 kHz) | Limit (dBm) |
| 2402            | -14.618                          | $\leq 8$    |
| 2440            | -14.887                          | $\leq 8$    |
| 2480            | -13.405                          | $\leq 8$    |

| Test Mode       | Mode 3                           |             |
|-----------------|----------------------------------|-------------|
| Frequency (MHz) | Measurement Results (dBm/ 3 kHz) | Limit (dBm) |
| 2402            | -18.225                          | $\leq 8$    |
| 2440            | -18.448                          | $\leq 8$    |
| 2480            | -16.947                          | $\leq 8$    |



■ Test Graphs

| Mode 2   |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| 2402 MHz |    |
| 2440 MHz |   |
| 2480 MHz |  |





| Mode 3   |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| 2402 MHz |    |
| 2440 MHz |   |
| 2480 MHz |  |

## Out of Band Conducted Emissions Measurement

### ■ Test Graphs

#### Reference level

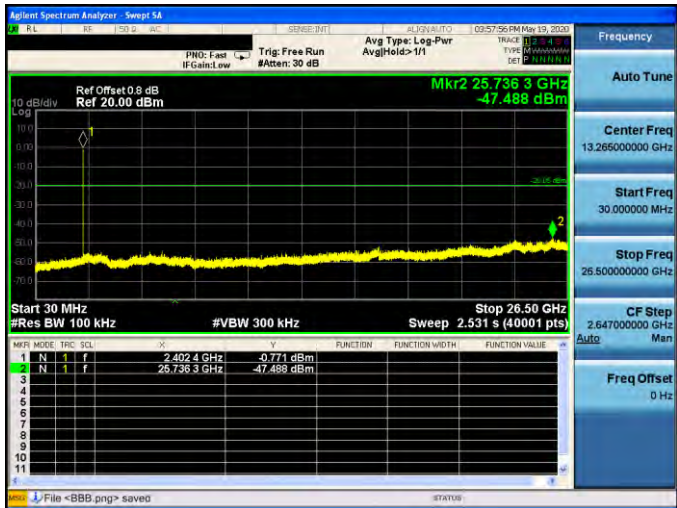
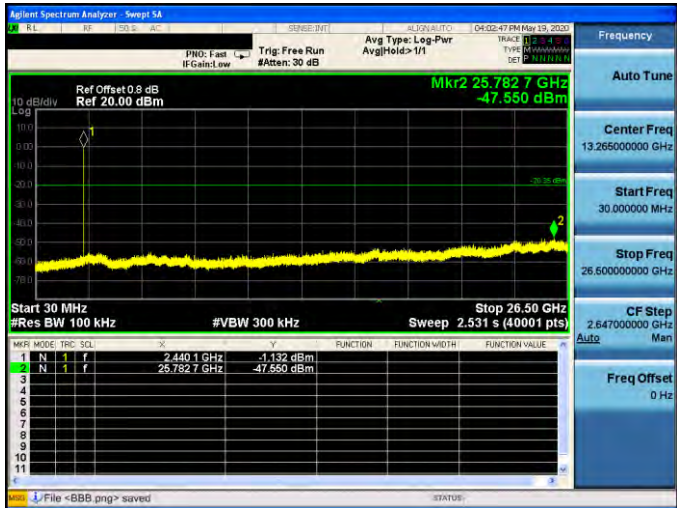
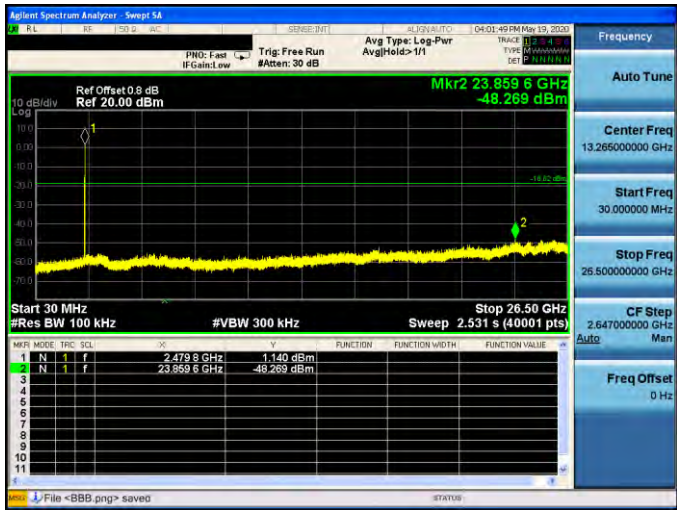
|                               |                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------|
| <p>Mode 2</p> <p>2402 MHz</p> |    |
| <p>2440 MHz</p>               |  |
| <p>2480 MHz</p>               |  |

| Mode 3   |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| 2402 MHz |    |
| 2440 MHz |   |
| 2480 MHz |  |



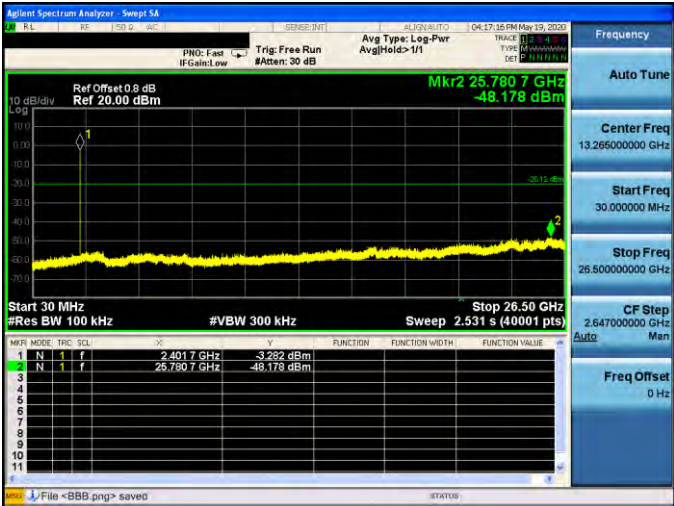
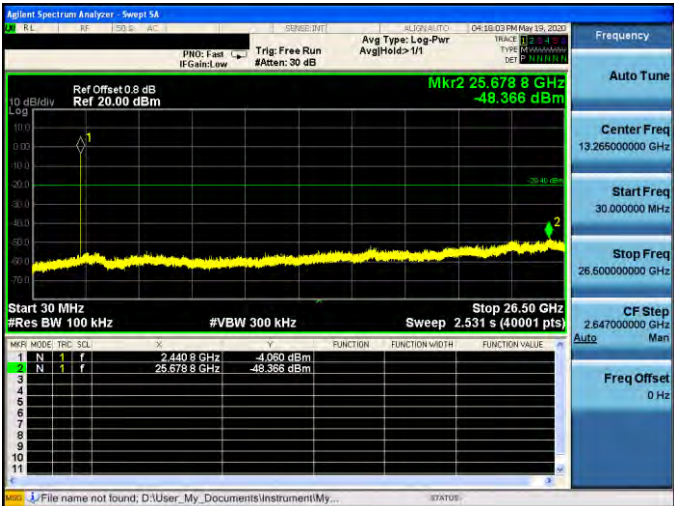
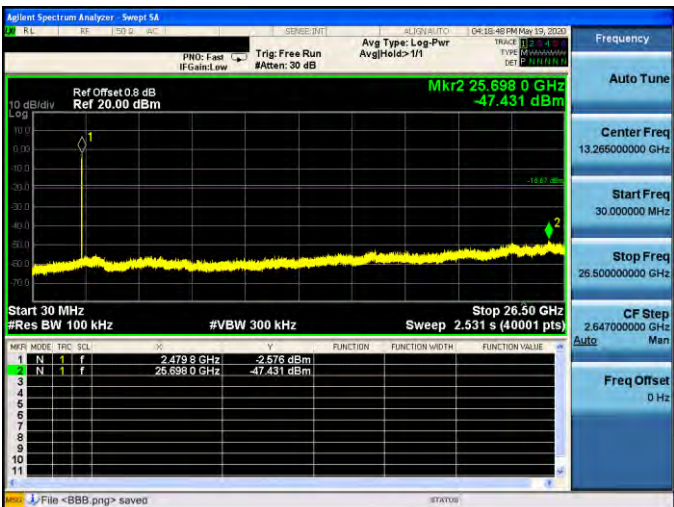


## Out of Band Conducted Emissions

| Mode 2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |              |             |          |                |                |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--------------|-------------|----------|----------------|----------------|----------------|----------------|---|---|---|---|------------|------------|--|--|--|---|---|---|---|--------------|-------------|--|--|--|
| 2402 MHz | <div><table><tr><th>Mkr</th><th>Mode</th><th>TRF</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2402.4 GHz</td><td>-0.771 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>25.736 3 GHz</td><td>-47.488 dBm</td><td></td><td></td><td></td></tr></table></div>   | Mkr | Mode | TRF          | SCL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2402.4 GHz | -0.771 dBm |  |  |  | 2 | N | 1 | f | 25.736 3 GHz | -47.488 dBm |  |  |  |
| Mkr      | Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TRF | SCL  | X            | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
| 1        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1   | f    | 2402.4 GHz   | -0.771 dBm  |          |                |                |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
| 2        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1   | f    | 25.736 3 GHz | -47.488 dBm |          |                |                |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
| 2440 MHz | <div><table><tr><th>Mkr</th><th>Mode</th><th>TRF</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2440.1 GHz</td><td>-1.132 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>25.782 7 GHz</td><td>-47.550 dBm</td><td></td><td></td><td></td></tr></table></div>  | Mkr | Mode | TRF          | SCL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2440.1 GHz | -1.132 dBm |  |  |  | 2 | N | 1 | f | 25.782 7 GHz | -47.550 dBm |  |  |  |
| Mkr      | Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TRF | SCL  | X            | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
| 1        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1   | f    | 2440.1 GHz   | -1.132 dBm  |          |                |                |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
| 2        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1   | f    | 25.782 7 GHz | -47.550 dBm |          |                |                |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
| 2480 MHz | <div><table><tr><th>Mkr</th><th>Mode</th><th>TRF</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2479.8 GHz</td><td>-1.140 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>23.859 6 GHz</td><td>-48.269 dBm</td><td></td><td></td><td></td></tr></table></div> | Mkr | Mode | TRF          | SCL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2479.8 GHz | -1.140 dBm |  |  |  | 2 | N | 1 | f | 23.859 6 GHz | -48.269 dBm |  |  |  |
| Mkr      | Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TRF | SCL  | X            | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
| 1        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1   | f    | 2479.8 GHz   | -1.140 dBm  |          |                |                |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |
| 2        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1   | f    | 23.859 6 GHz | -48.269 dBm |          |                |                |                |                |   |   |   |   |            |            |  |  |  |   |   |   |   |              |             |  |  |  |

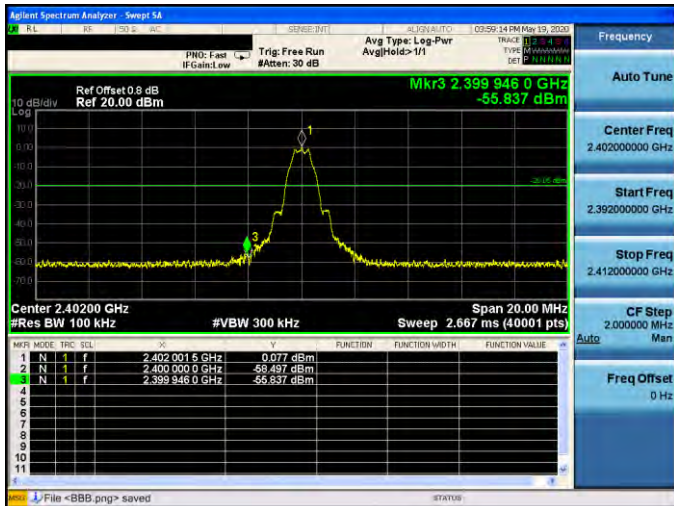
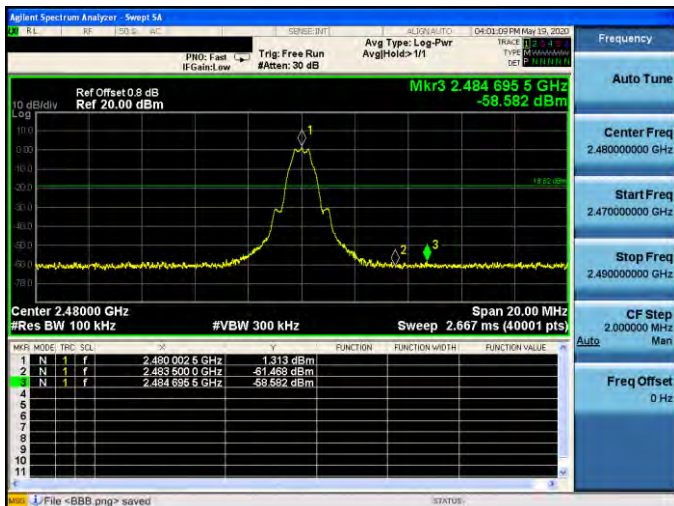




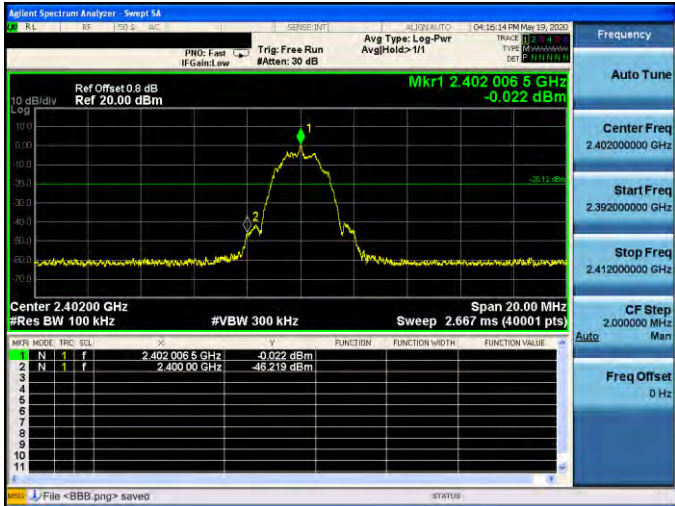
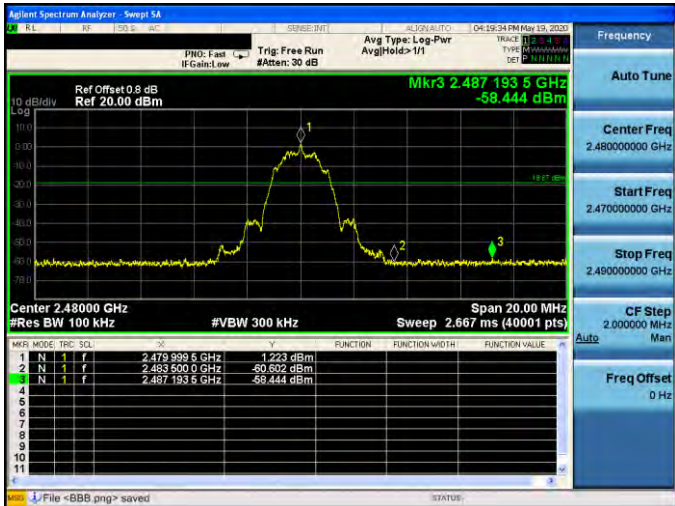
| Mode 3   |                                                                                      |
|----------|--------------------------------------------------------------------------------------|
| 2402 MHz |    |
| 2440 MHz |   |
| 2480 MHz |  |



## Conducted Band Edge

| Mode 2   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |               |             |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|---------------|-------------|----------|----------------|----------------|----------------|----------------|---|---|---|---|---------------|------------|--|--|--|---|---|---|---|---------------|-------------|--|--|--|---|---|---|---|---------------|-------------|--|--|--|
| 2402 MHz | <div><table><tr><th>MkR</th><th>MODE</th><th>TRC</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4020015 GHz</td><td>-0.077 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.4000000 GHz</td><td>-58.497 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.3999460 GHz</td><td>-55.837 dBm</td><td></td><td></td><td></td></tr></table></div>  | MkR | MODE | TRC           | SQL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2.4020015 GHz | -0.077 dBm |  |  |  | 2 | N | 1 | f | 2.4000000 GHz | -58.497 dBm |  |  |  | 3 | N | 1 | f | 2.3999460 GHz | -55.837 dBm |  |  |  |
| MkR      | MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TRC | SQL  | X             | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 1        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1   | f    | 2.4020015 GHz | -0.077 dBm  |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 2        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1   | f    | 2.4000000 GHz | -58.497 dBm |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 3        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1   | f    | 2.3999460 GHz | -55.837 dBm |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 2480 MHz | <div><table><tr><th>MkR</th><th>MODE</th><th>TRC</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4800026 GHz</td><td>-1.313 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.4835000 GHz</td><td>-61.488 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.4846955 GHz</td><td>-58.582 dBm</td><td></td><td></td><td></td></tr></table></div> | MkR | MODE | TRC           | SQL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2.4800026 GHz | -1.313 dBm |  |  |  | 2 | N | 1 | f | 2.4835000 GHz | -61.488 dBm |  |  |  | 3 | N | 1 | f | 2.4846955 GHz | -58.582 dBm |  |  |  |
| MkR      | MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TRC | SQL  | X             | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 1        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1   | f    | 2.4800026 GHz | -1.313 dBm  |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 2        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1   | f    | 2.4835000 GHz | -61.488 dBm |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 3        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1   | f    | 2.4846955 GHz | -58.582 dBm |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |



| Mode 3   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |               |             |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|---------------|-------------|----------|----------------|----------------|----------------|----------------|---|---|---|---|---------------|------------|--|--|--|---|---|---|---|---------------|-------------|--|--|--|---|---|---|---|---------------|-------------|--|--|--|
| 2402 MHz | <div><table><tr><th>MkR</th><th>MODE</th><th>TRC</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4020065 GHz</td><td>-0.022 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.40000 GHz</td><td>-46.219 dBm</td><td></td><td></td><td></td></tr></table></div>                                                                                                                         | MkR | MODE | TRC           | SQL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2.4020065 GHz | -0.022 dBm |  |  |  | 2 | N | 1 | f | 2.40000 GHz   | -46.219 dBm |  |  |  |   |   |   |   |               |             |  |  |  |
| MkR      | MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TRC | SQL  | X             | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 1        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   | f    | 2.4020065 GHz | -0.022 dBm  |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 2        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   | f    | 2.40000 GHz   | -46.219 dBm |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 2480 MHz | <div><table><tr><th>MkR</th><th>MODE</th><th>TRC</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4799995 GHz</td><td>1.223 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.4835000 GHz</td><td>-60.602 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.4871935 GHz</td><td>-58.444 dBm</td><td></td><td></td><td></td></tr></table></div> | MkR | MODE | TRC           | SQL         | X        | Y              | FUNCTION       | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 2.4799995 GHz | 1.223 dBm  |  |  |  | 2 | N | 1 | f | 2.4835000 GHz | -60.602 dBm |  |  |  | 3 | N | 1 | f | 2.4871935 GHz | -58.444 dBm |  |  |  |
| MkR      | MODE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | TRC | SQL  | X             | Y           | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 1        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   | f    | 2.4799995 GHz | 1.223 dBm   |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 2        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   | f    | 2.4835000 GHz | -60.602 dBm |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |
| 3        | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1   | f    | 2.4871935 GHz | -58.444 dBm |          |                |                |                |                |   |   |   |   |               |            |  |  |  |   |   |   |   |               |             |  |  |  |   |   |   |   |               |             |  |  |  |

## Annex C. Radiated Emission Measurement

Below 1 GHz

| Standard:          |                   | FCC Part 15.247          |                    | Test Distance:       |                | 3 m            |                     |
|--------------------|-------------------|--------------------------|--------------------|----------------------|----------------|----------------|---------------------|
| Test item:         |                   | Radiated Emission        |                    | Power:               |                | AC 120 V/60 Hz |                     |
| Frequency:         |                   | 2402 MHz                 |                    | Temp.(°C)/Hum.(%RH): |                | 26(°C)/60 %RH  |                     |
| Mode:              |                   | Mode 2                   |                    |                      |                |                |                     |
| Frequency<br>(MHz) | Reading<br>(dBuV) | Correct Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m)    | Margin<br>(dB) | Remark         | Ant.Polar.<br>H / V |
| 219.1500           | 34.33             | -7.18                    | 27.15              | 46.00                | -18.85         | QP             | H                   |
| 280.2600           | 37.08             | -4.67                    | 32.41              | 46.00                | -13.59         | QP             | H                   |
| 425.7600           | 29.24             | -1.37                    | 27.87              | 46.00                | -18.13         | QP             | H                   |
| 579.0200           | 29.09             | 1.88                     | 30.97              | 46.00                | -15.03         | QP             | H                   |
| 719.6700           | 29.16             | 4.43                     | 33.59              | 46.00                | -12.41         | QP             | H                   |
| 759.4400           | 29.91             | 5.33                     | 35.24              | 46.00                | -10.76         | QP             | H                   |
| 180.3500           | 38.66             | -6.64                    | 32.02              | 43.50                | -11.48         | QP             | V                   |
| 219.1500           | 40.11             | -7.18                    | 32.93              | 46.00                | -13.07         | QP             | V                   |
| 420.9100           | 29.87             | -1.51                    | 28.36              | 46.00                | -17.64         | QP             | V                   |
| 547.9800           | 29.66             | 1.00                     | 30.66              | 46.00                | -15.34         | QP             | V                   |
| 769.1400           | 29.02             | 5.44                     | 34.46              | 46.00                | -11.54         | QP             | V                   |
| 867.1100           | 28.85             | 6.97                     | 35.82              | 46.00                | -10.18         | QP             | V                   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: 27.15=-7.18+34.33.

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

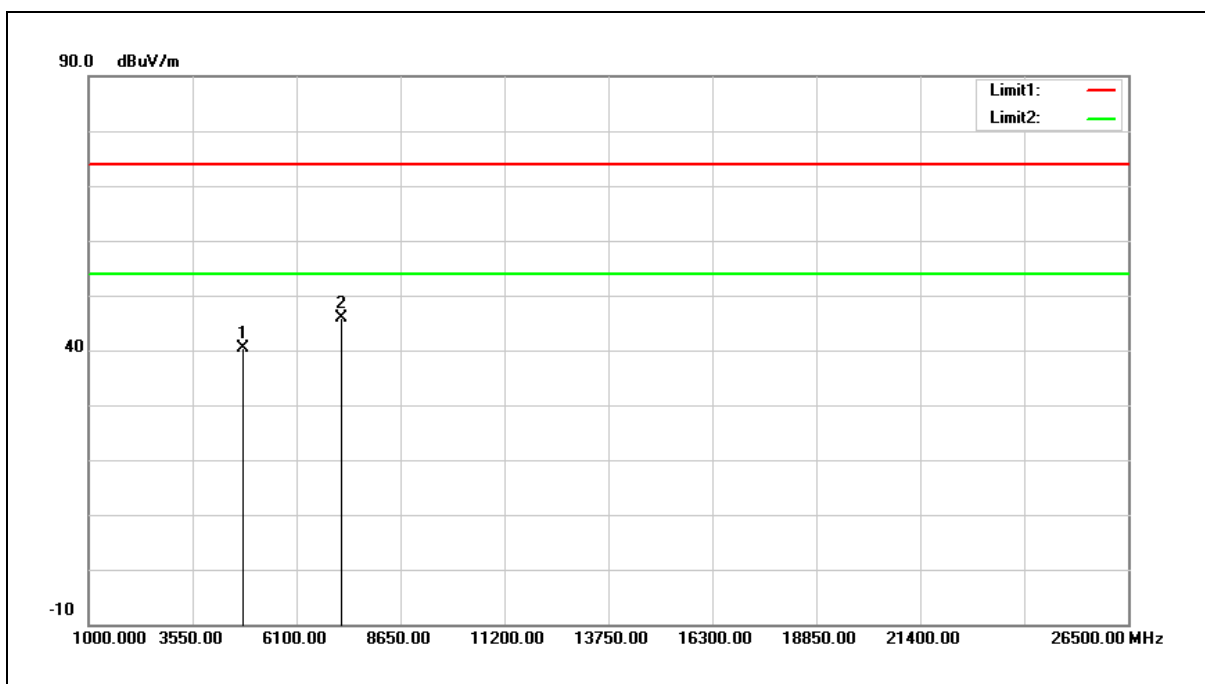
3.When the peak results are less than average limit, so not need to evaluate the average.



## Harmonic

Above 1 GHz

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2402 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



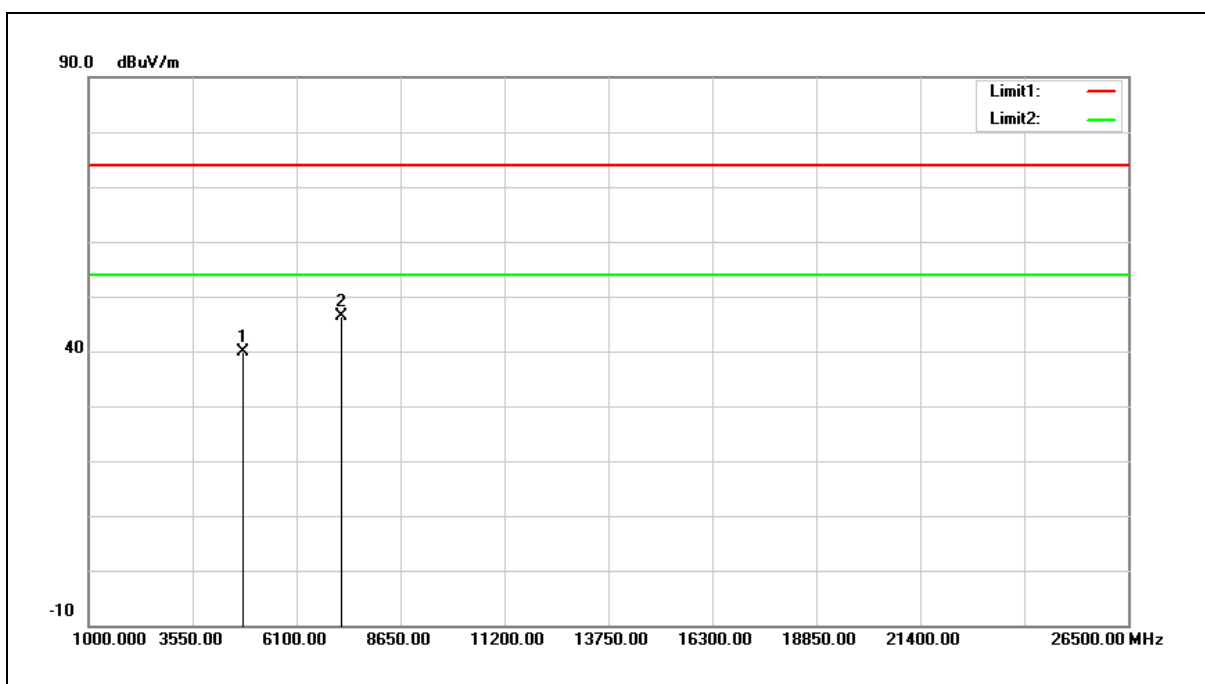
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4804.000        | 34.37          | 5.91                  | 40.28           | 74.00          | -33.72      | peak   |
| 2   | 7206.000        | 33.42          | 12.38                 | 45.80           | 74.00          | -28.20      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2402 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



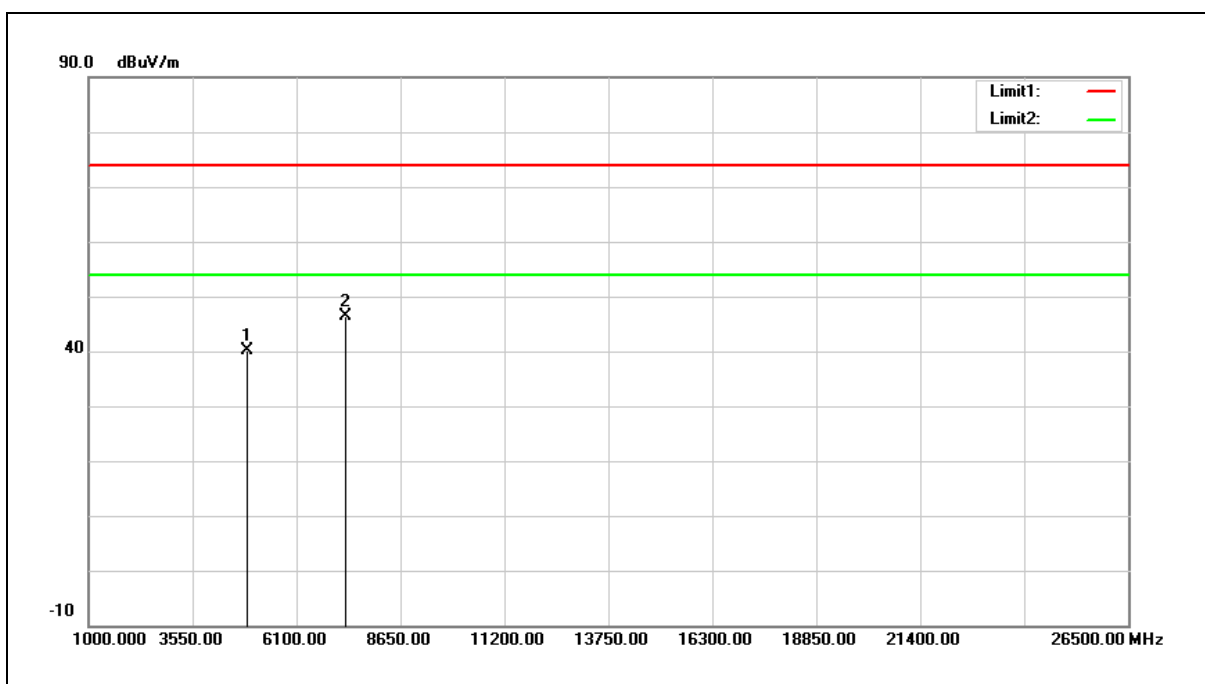
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4804.000        | 34.00          | 5.91                  | 39.91           | 74.00          | -34.09      | peak   |
| 2   | 7206.000        | 34.02          | 12.38                 | 46.40           | 74.00          | -27.60      | peak   |

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2440 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



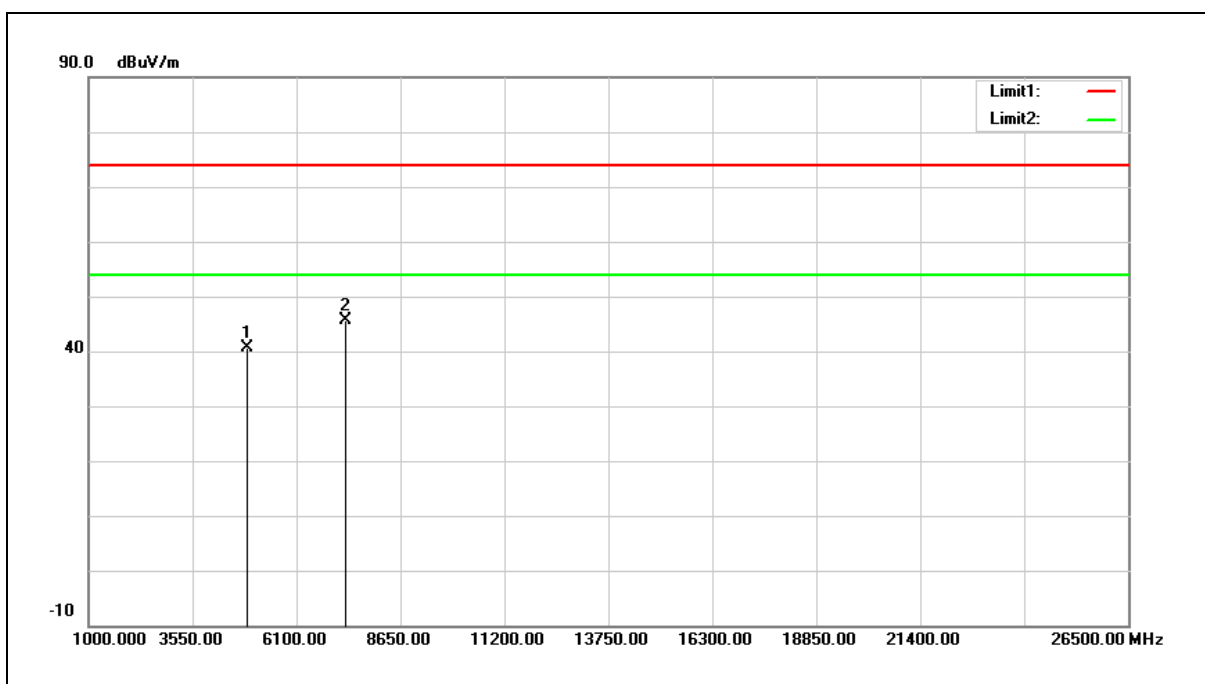
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4880.000        | 33.86          | 6.15                  | 40.01           | 74.00          | -33.99      | peak   |
| 2   | 7320.000        | 33.64          | 12.76                 | 46.40           | 74.00          | -27.60      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2440 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4880.000        | 34.50          | 6.15                  | 40.65           | 74.00          | -33.35      | peak   |
| 2   | 7320.000        | 32.97          | 12.76                 | 45.73           | 74.00          | -28.27      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

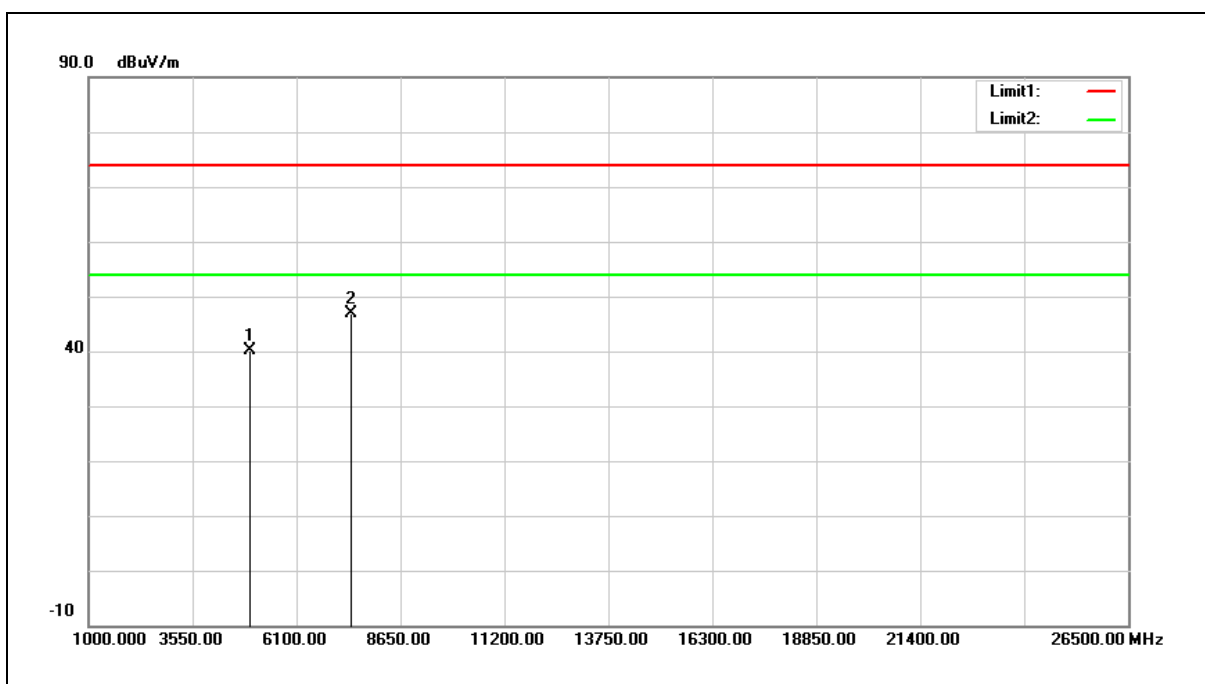
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.





|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2480 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4960.000        | 33.81          | 6.38                  | 40.19           | 74.00          | -33.81      | peak   |
| 2   | 7440.000        | 33.79          | 13.18                 | 46.97           | 74.00          | -27.03      | peak   |

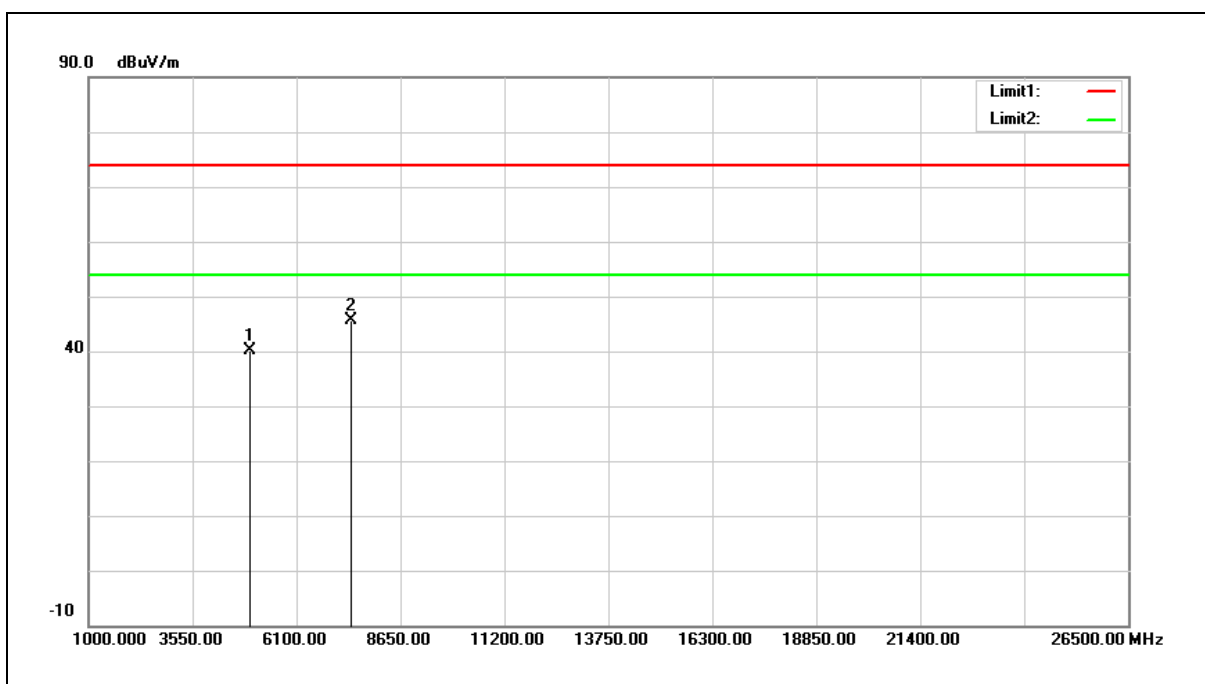
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2480 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



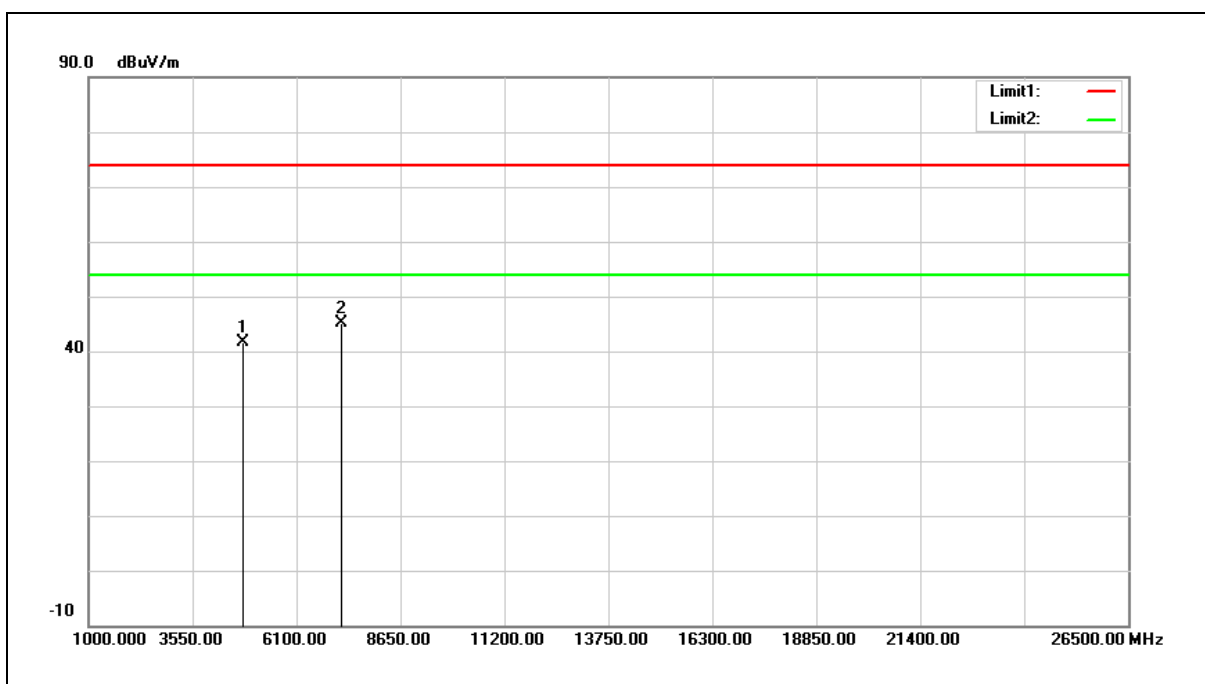
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4960.000        | 33.70          | 6.38                  | 40.08           | 74.00          | -33.92      | peak   |
| 2   | 7440.000        | 32.46          | 13.18                 | 45.64           | 74.00          | -28.36      | peak   |

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2402 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



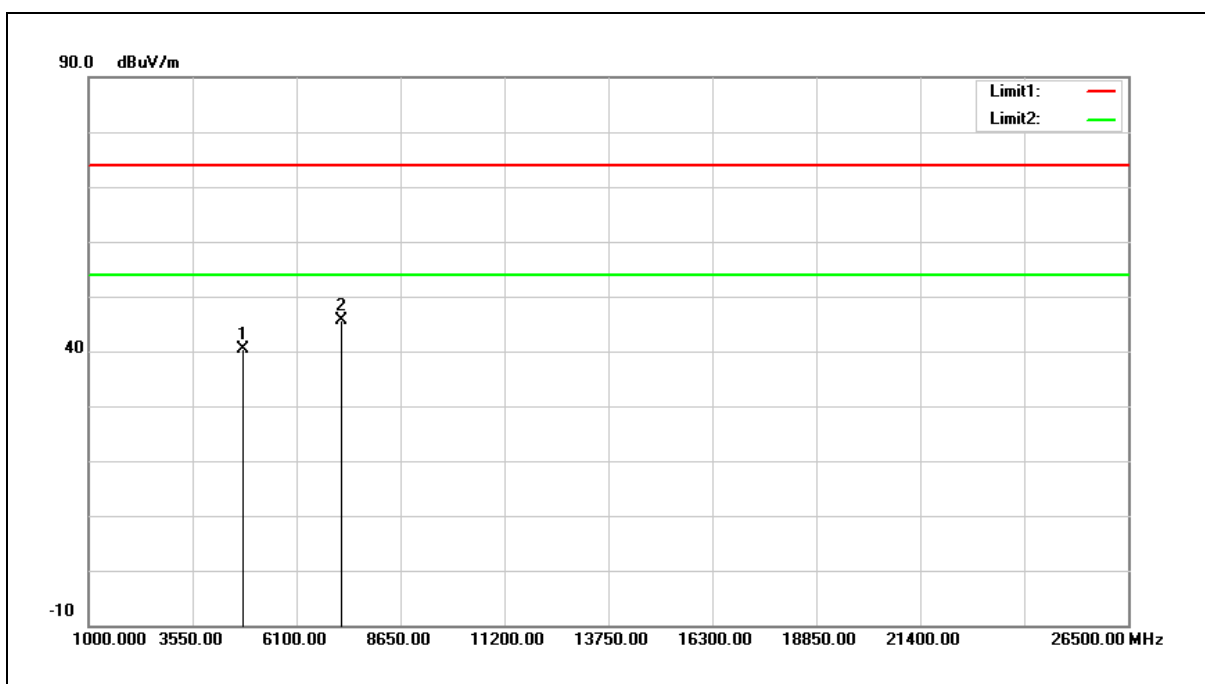
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4804.000        | 35.83          | 5.91                  | 41.74           | 74.00          | -32.26      | peak   |
| 2   | 7206.000        | 32.85          | 12.38                 | 45.23           | 74.00          | -28.77      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2402 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



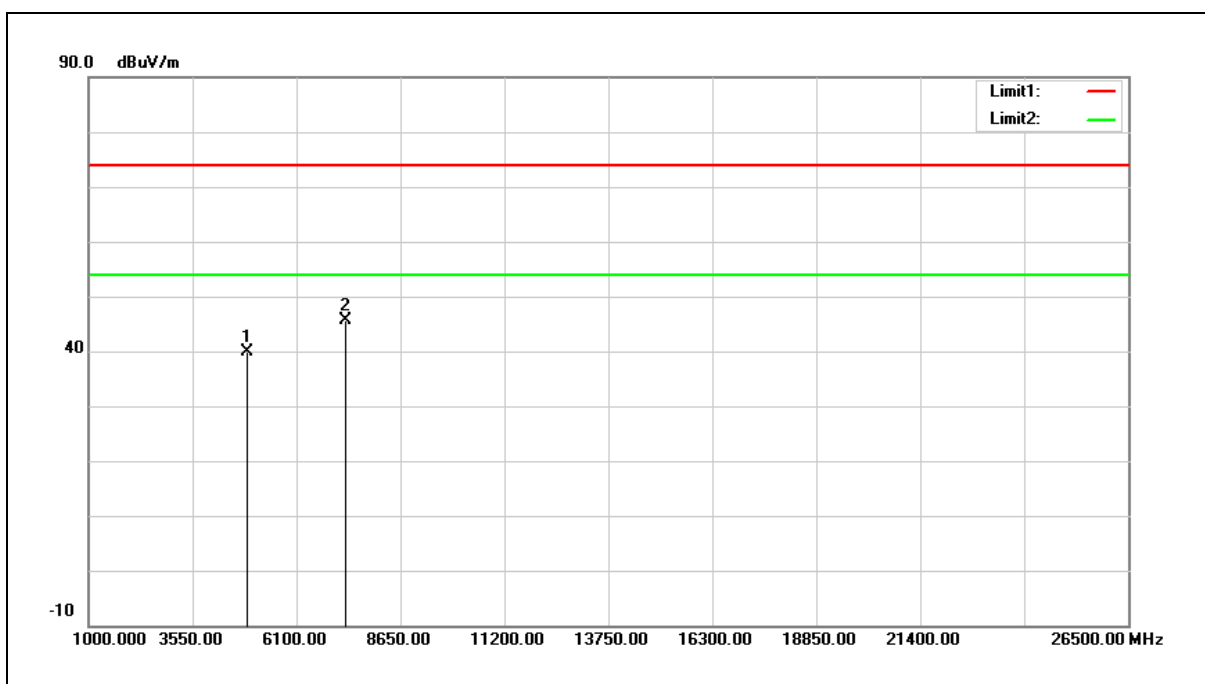
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4804.000        | 34.36          | 5.91                  | 40.27           | 74.00          | -33.73      | peak   |
| 2   | 7206.000        | 33.31          | 12.38                 | 45.69           | 74.00          | -28.31      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2440 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



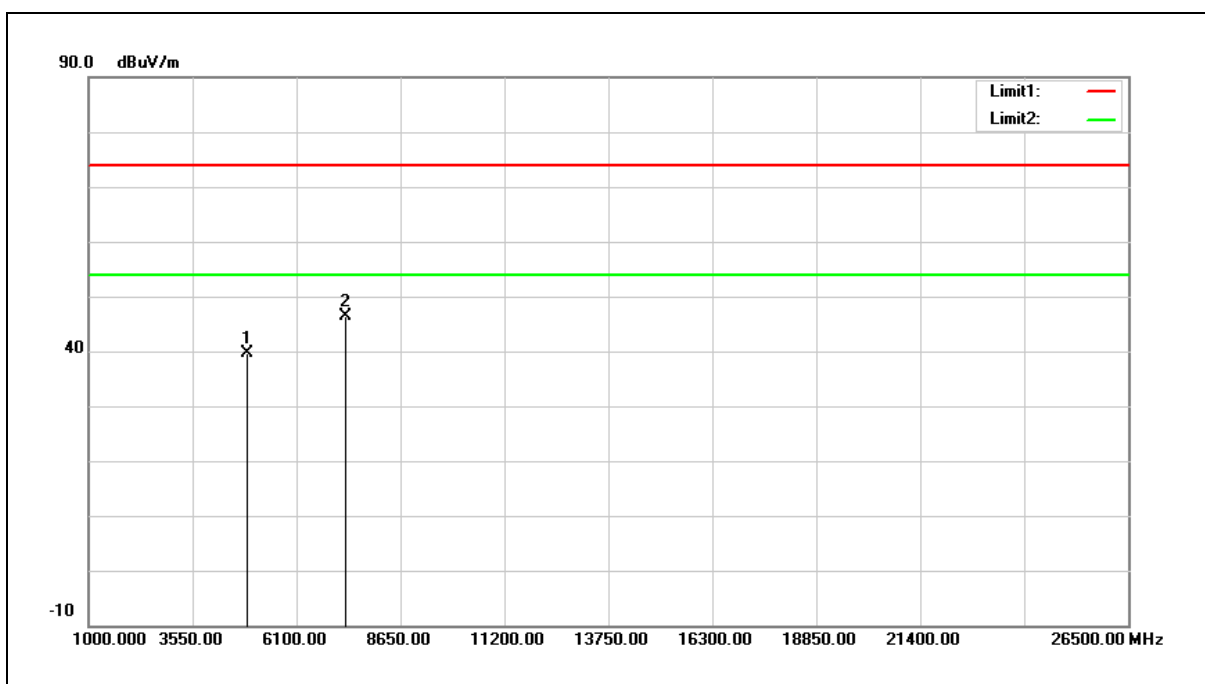
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4880.000        | 33.75          | 6.15                  | 39.90           | 74.00          | -34.10      | peak   |
| 2   | 7320.000        | 32.95          | 12.76                 | 45.71           | 74.00          | -28.29      | peak   |

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2440 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



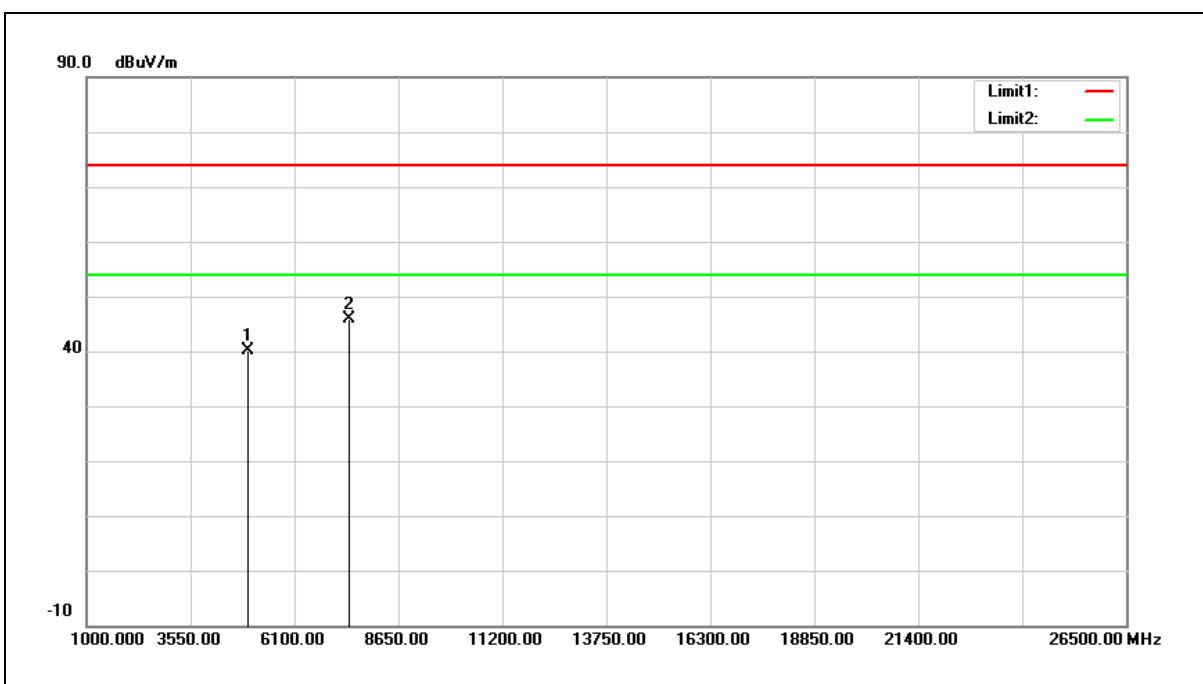
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4880.000        | 33.58          | 6.15                  | 39.73           | 74.00          | -34.27      | peak   |
| 2   | 7320.000        | 33.60          | 12.76                 | 46.36           | 74.00          | -27.64      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2480 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4960.000        | 33.87          | 6.38                  | 40.25           | 74.00          | -33.75      | peak   |
| 2   | 7440.000        | 32.77          | 13.18                 | 45.95           | 74.00          | -28.05      | peak   |

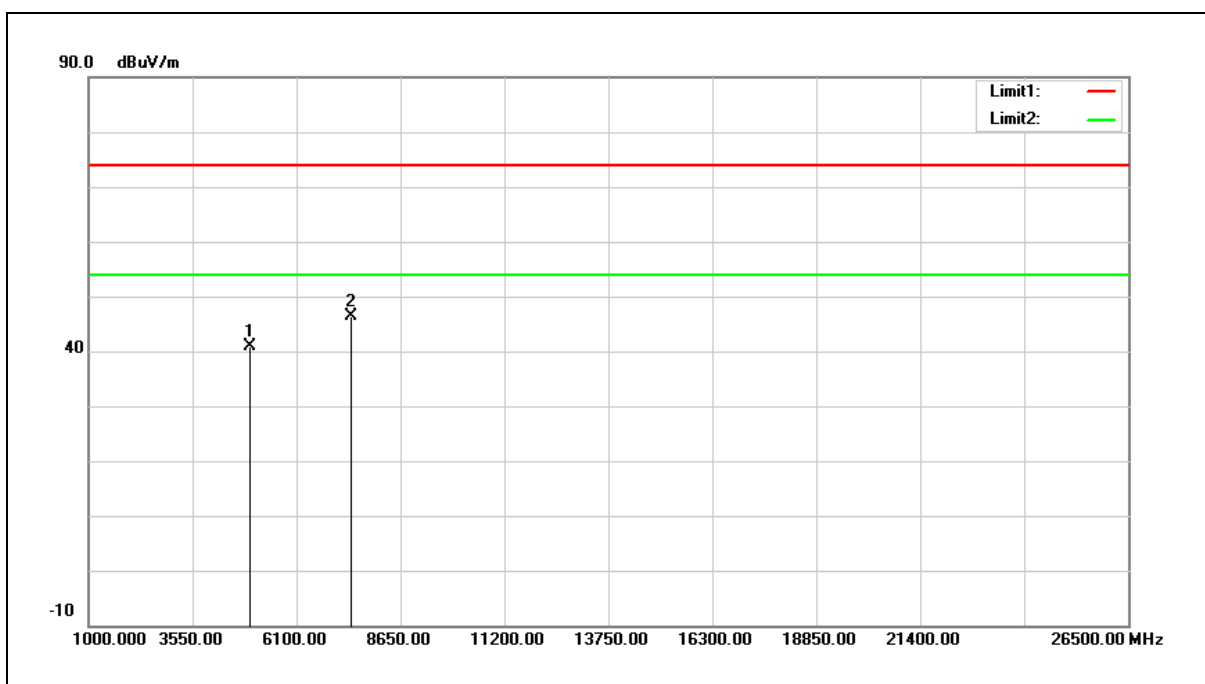
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.



|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Harmonic        | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2480 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 4960.000        | 34.60          | 6.38                  | 40.98           | 74.00          | -33.02      | peak   |
| 2   | 7440.000        | 33.16          | 13.18                 | 46.34           | 74.00          | -27.66      | peak   |

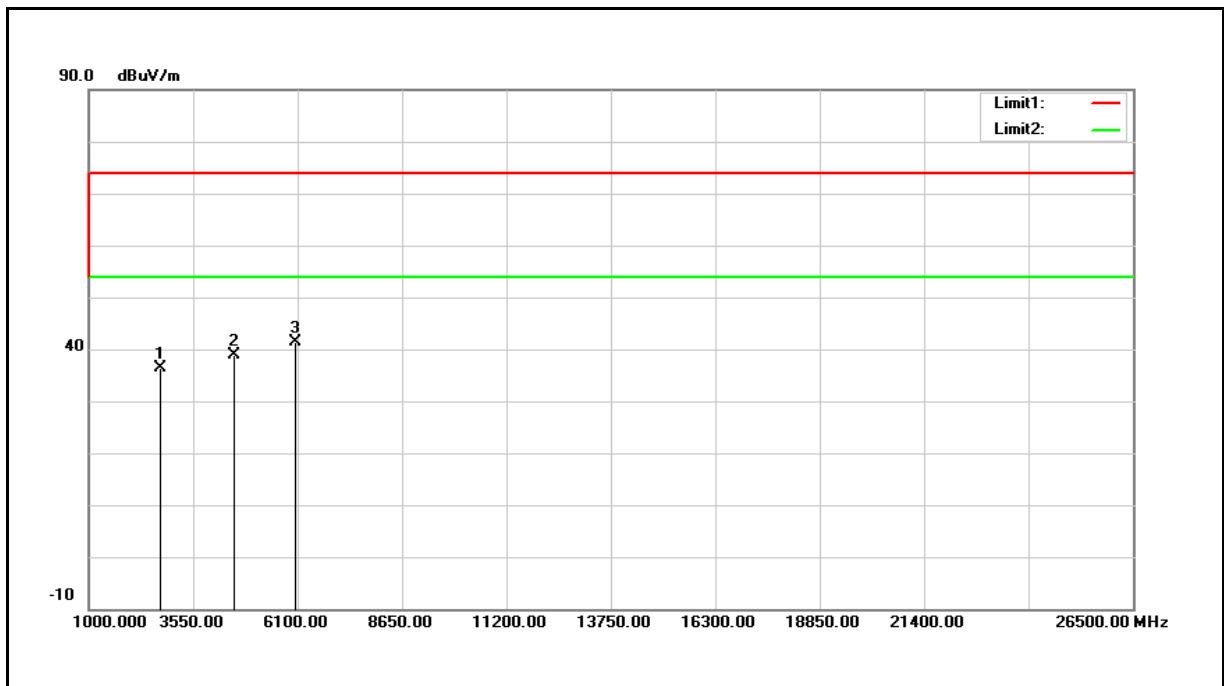
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.



|             |                                                |                      |                |
|-------------|------------------------------------------------|----------------------|----------------|
| Standard:   | FCC Part 15.247                                | Test Distance:       | 3 m            |
| Test item:  | Harmonic                                       | Power:               | AC 120 V/60 Hz |
| Mode:       | Simultaneous Transmitting<br>(2.4 GHz WLAN+BT) | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Ant.Polar.: | Horizontal                                     |                      |                |



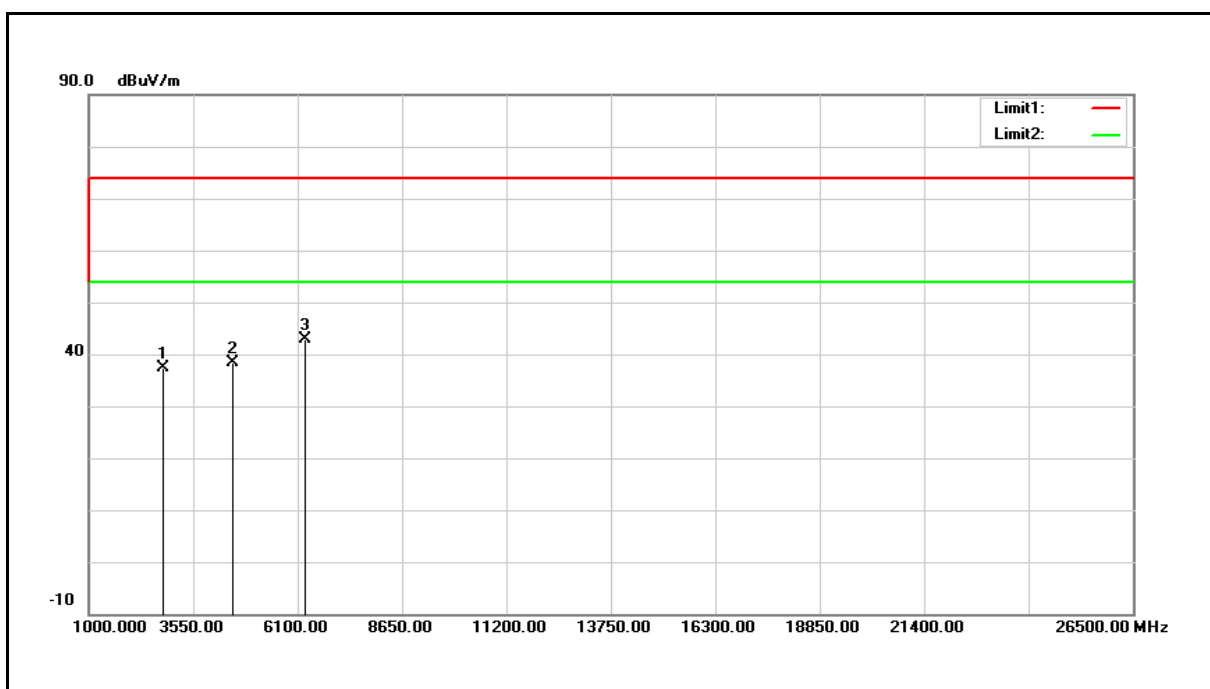
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 2751.000        | 36.01          | 0.42                  | 36.43           | 74.00          | -37.57      | peak   |
| 2   | 4553.000        | 33.80          | 5.15                  | 38.95           | 74.00          | -35.05      | peak   |
| 3   | 6049.000        | 32.23          | 9.09                  | 41.32           | 74.00          | -32.68      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                                                |                      |                |
|-------------|------------------------------------------------|----------------------|----------------|
| Standard:   | FCC Part 15.247                                | Test Distance:       | 3 m            |
| Test item:  | Harmonic                                       | Power:               | AC 120 V/60 Hz |
| Mode:       | Simultaneous Transmitting<br>(2.4 GHz WLAN+BT) | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Ant.Polar.: | Vertical                                       |                      |                |



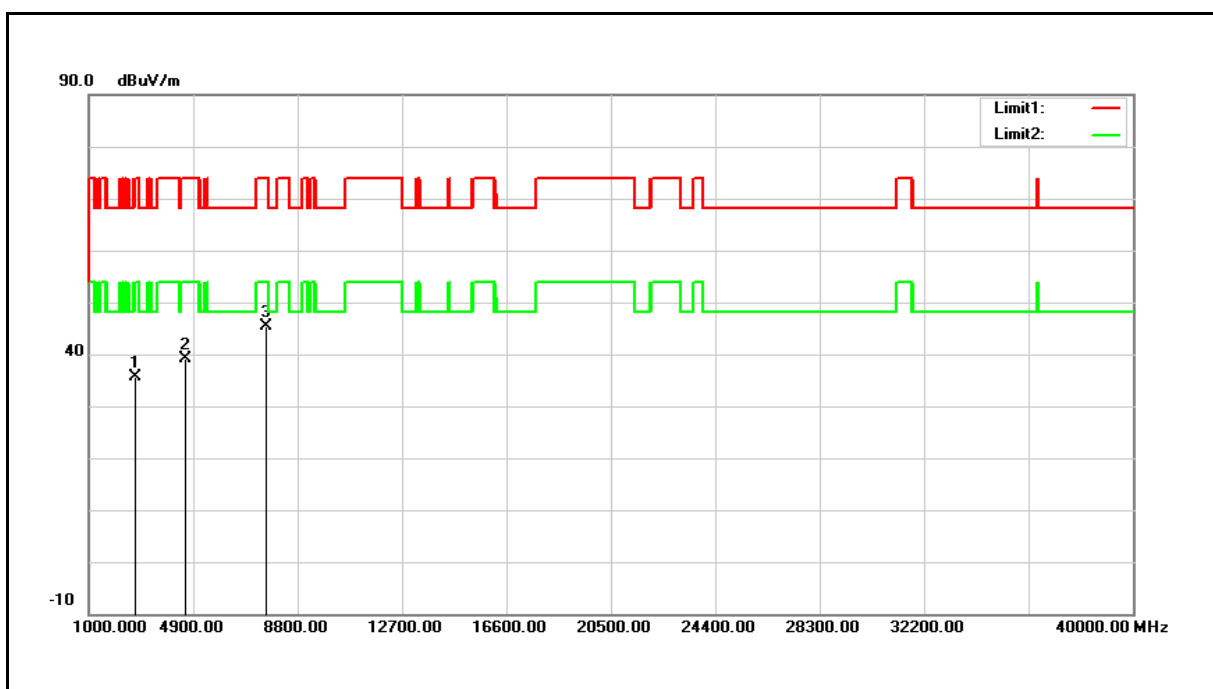
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|--------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2802.000           | 36.88             | 0.56                     | 37.44              | 74.00             | -36.56         | peak   |
| 2   | 4519.000           | 33.43             | 5.03                     | 38.46              | 74.00             | -35.54         | peak   |
| 3   | 6270.000           | 33.25             | 9.74                     | 42.99              | 74.00             | -31.01         | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                                              |                      |                |
|-------------|----------------------------------------------|----------------------|----------------|
| Standard:   | FCC Part 15.247                              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                                     | Power:               | AC 120 V/60 Hz |
| Mode:       | Simultaneous Transmitting<br>(5 GHz WLAN+BT) | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Ant.Polar.: | Horizontal                                   |                      |                |



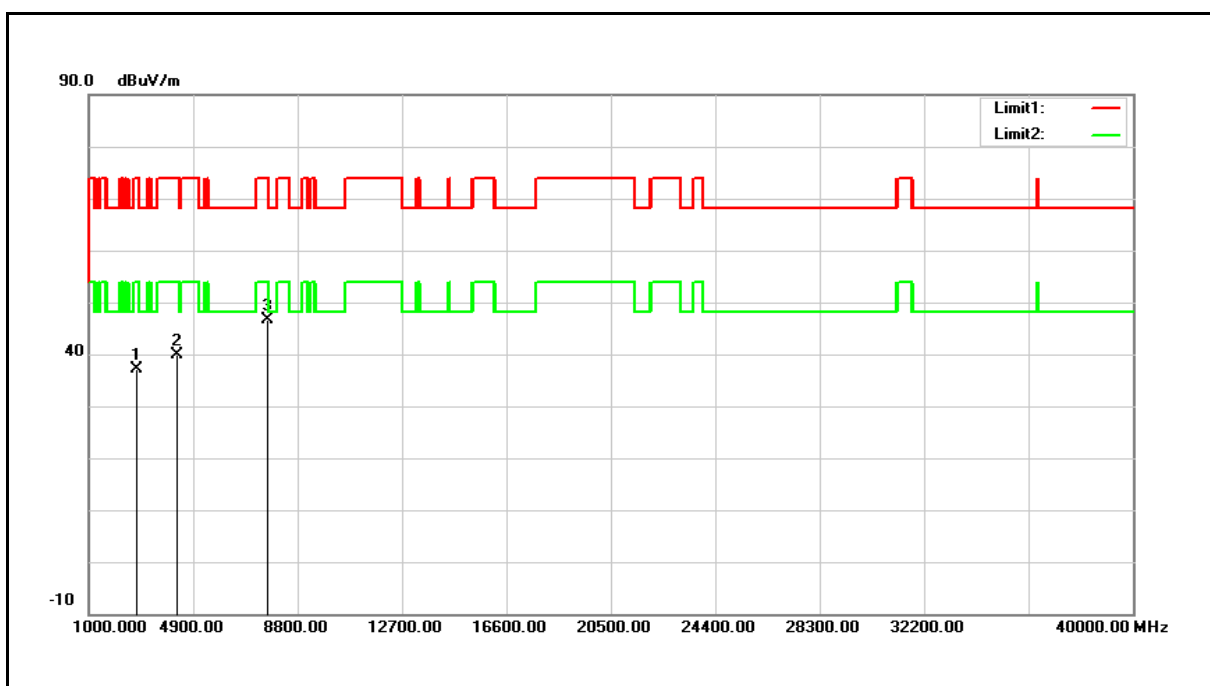
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|--------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2734.000           | 35.19             | 0.37                     | 35.56              | 74.00             | -38.44         | peak   |
| 2   | 4570.000           | 34.01             | 5.19                     | 39.20              | 74.00             | -34.80         | peak   |
| 3   | 7613.000           | 31.73             | 13.62                    | 45.35              | 74.00             | -28.65         | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                                              |                      |                |
|-------------|----------------------------------------------|----------------------|----------------|
| Standard:   | FCC Part 15.247                              | Test Distance:       | 3 m            |
| Test item:  | Harmonic                                     | Power:               | AC 120 V/60 Hz |
| Mode:       | Simultaneous Transmitting<br>(5 GHz WLAN+BT) | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Ant.Polar.: | Vertical                                     |                      |                |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|--------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2802.000           | 36.65             | 0.56                     | 37.21              | 74.00             | -36.79         | peak   |
| 2   | 4315.000           | 35.27             | 4.62                     | 39.89              | 74.00             | -34.11         | peak   |
| 3   | 7647.000           | 33.06             | 13.69                    | 46.75              | 74.00             | -27.25         | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

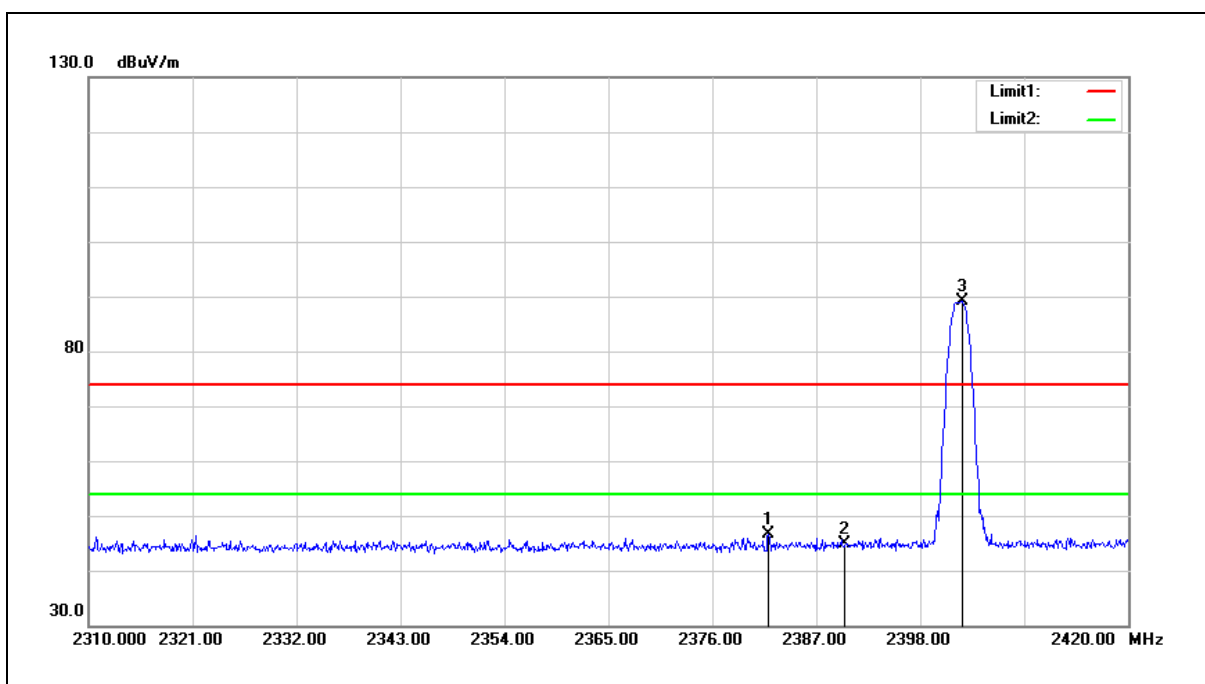
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



### Band Edge

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Band edge       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2402 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 2381.940        | 47.45          | -0.91                 | 46.54           | 74.00          | -27.46      | peak   |
| 2   | 2390.000        | 45.82          | -0.87                 | 44.95           | 74.00          | -29.05      | peak   |
| 3   | 2402.400        | 89.86          | -0.81                 | 89.05           | --             | --          | peak   |

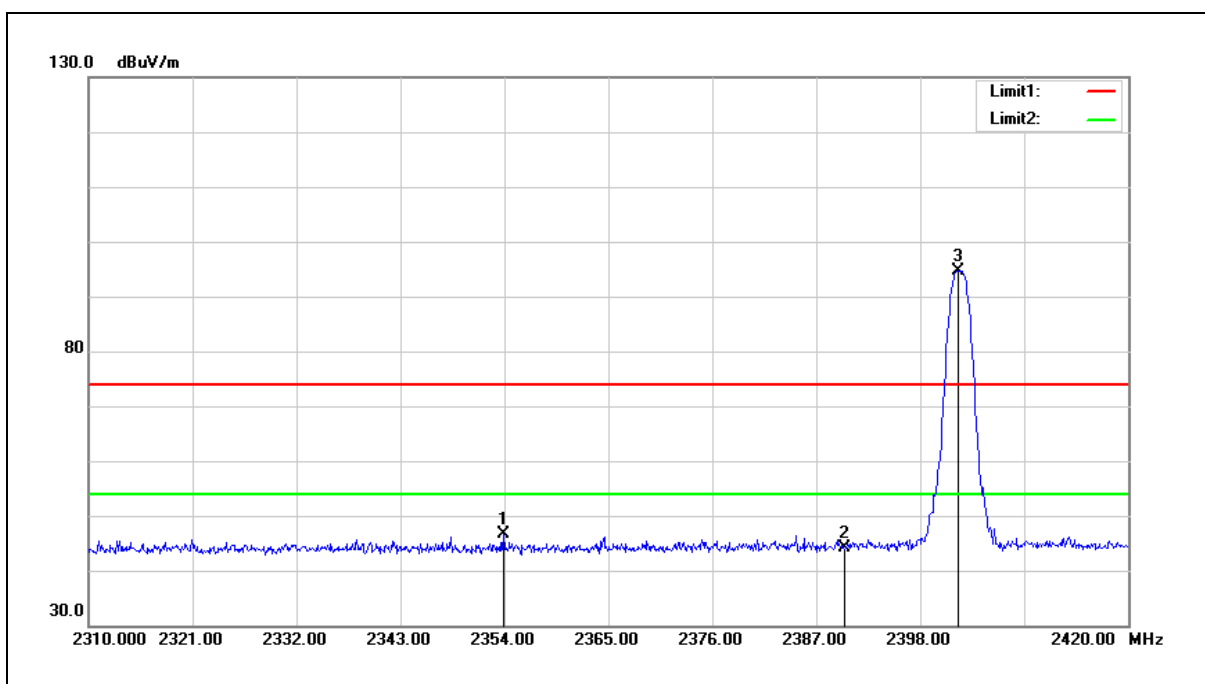
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Band edge       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2402 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct Factor<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|--------------------------|--------------------|-------------------|----------------|--------|
| 1   | 2353.890           | 47.59             | -1.05                    | 46.54              | 74.00             | -27.46         | peak   |
| 2   | 2390.000           | 44.97             | -0.87                    | 44.10              | 74.00             | -29.90         | peak   |
| 3   | 2401.960           | 95.42             | -0.81                    | 94.61              | --                | --             | peak   |

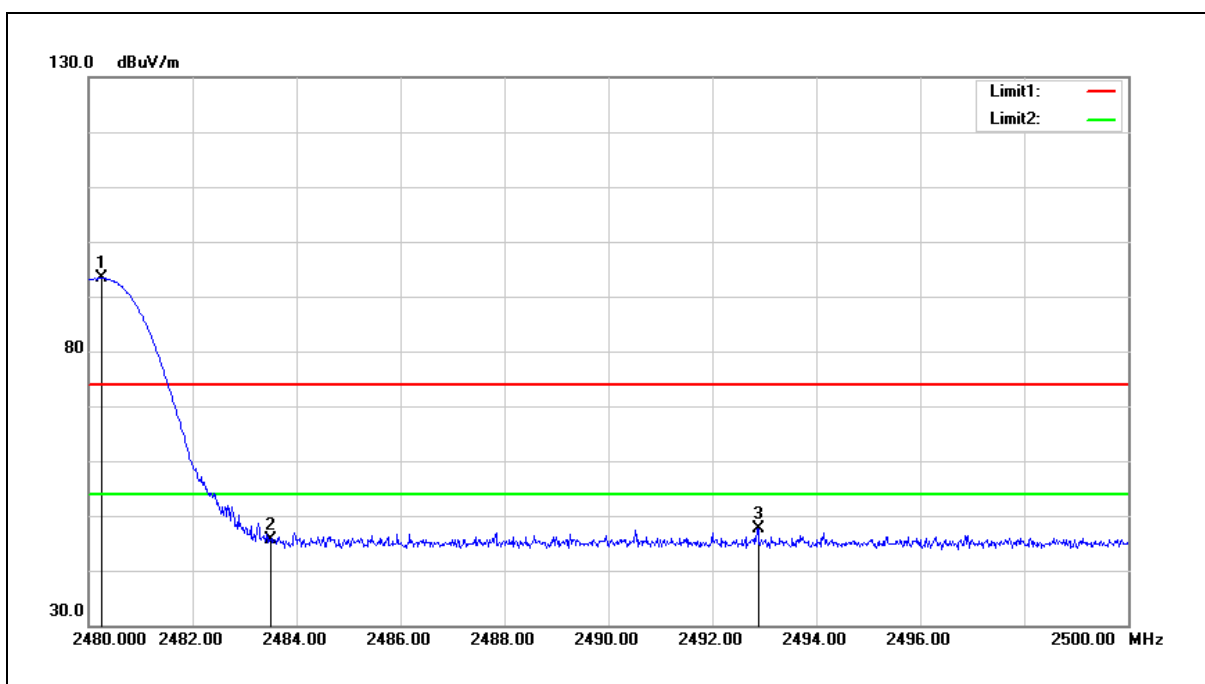
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Band edge       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2480 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



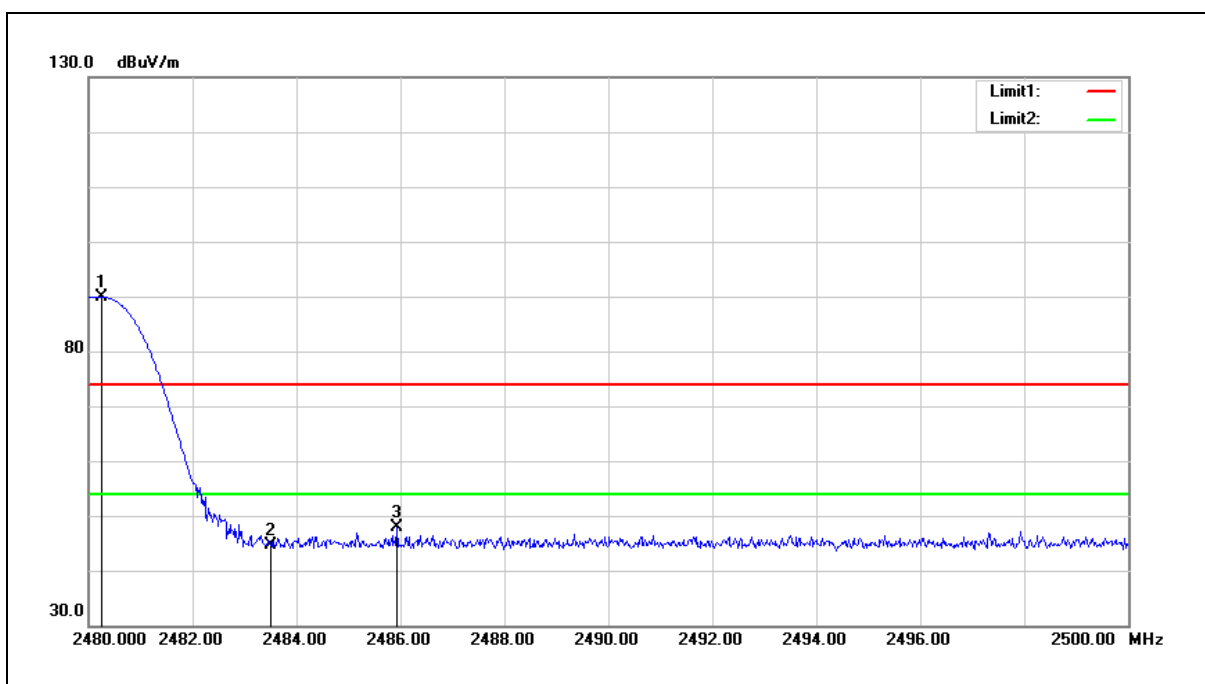
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 2480.240        | 93.74          | -0.41                 | 93.33           | --             | --          | peak   |
| 2   | 2483.500        | 45.96          | -0.40                 | 45.56           | 74.00          | -28.44      | peak   |
| 3   | 2492.880        | 47.90          | -0.34                 | 47.56           | 74.00          | -26.44      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Band edge       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2480 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 2          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 2480.240        | 90.30          | -0.41                 | 89.89           | --             | --          | peak   |
| 2   | 2483.500        | 44.97          | -0.40                 | 44.57           | 74.00          | -29.43      | peak   |
| 3   | 2485.920        | 48.17          | -0.38                 | 47.79           | 74.00          | -26.21      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

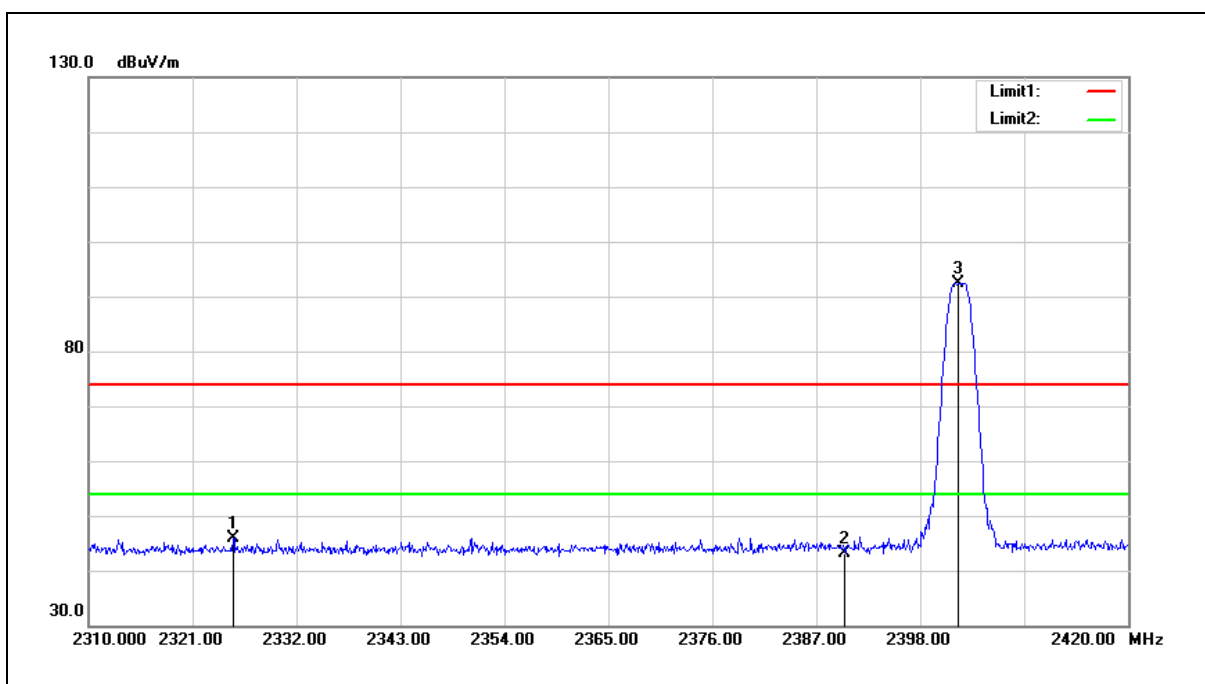
2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.





|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Band edge       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2402 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 2325.290        | 47.14          | -1.19                 | 45.95           | 74.00          | -28.05      | peak   |
| 2   | 2390.000        | 44.04          | -0.87                 | 43.17           | 74.00          | -30.83      | peak   |
| 3   | 2402.070        | 93.27          | -0.81                 | 92.46           | --             | --          | peak   |

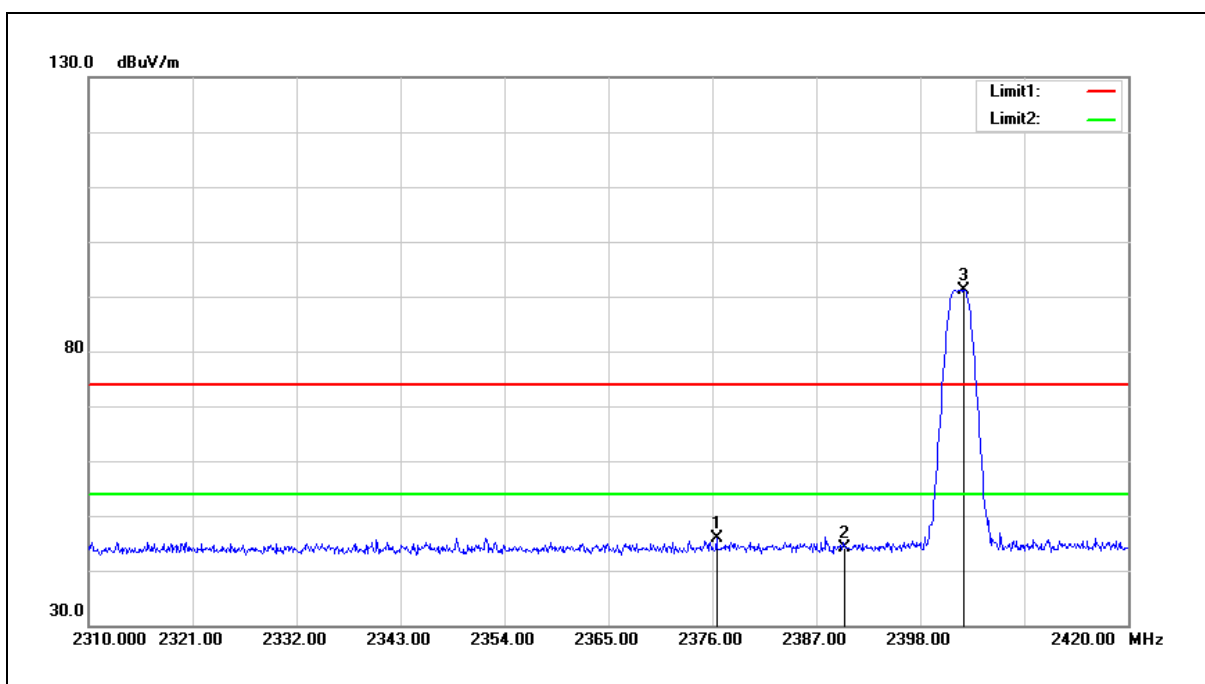
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.



|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Band edge       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2402 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



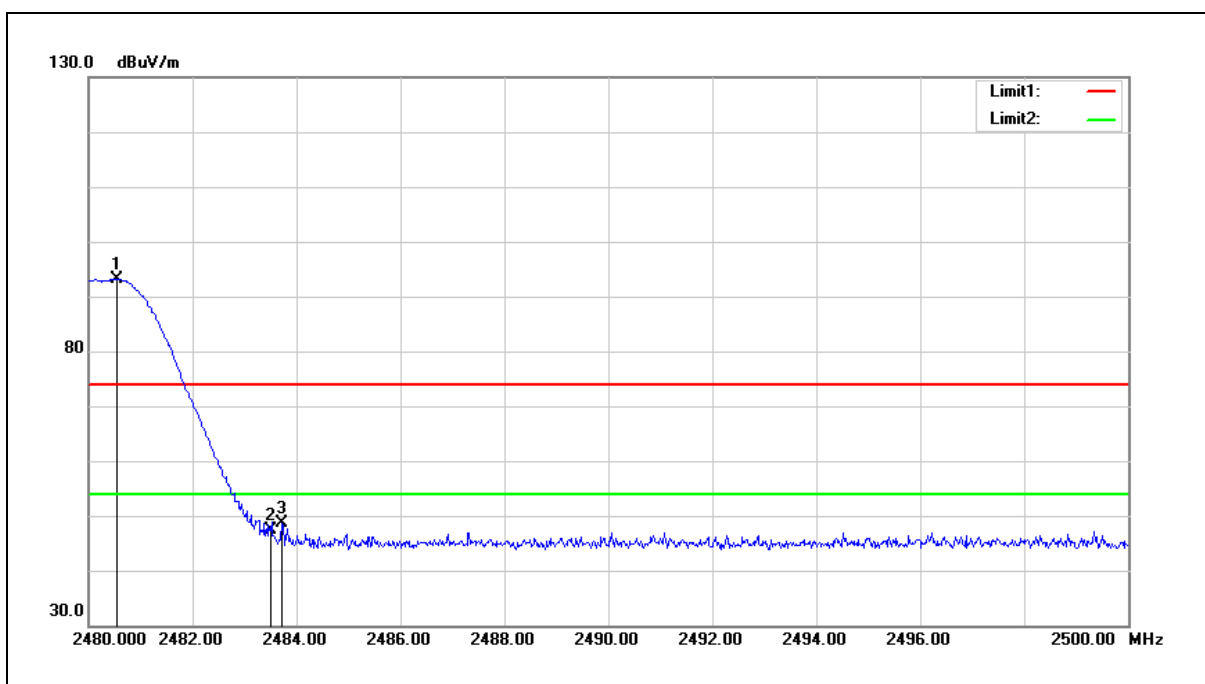
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 2376.440        | 46.88          | -0.94                 | 45.94           | 74.00          | -28.06      | peak   |
| 2   | 2390.000        | 45.09          | -0.87                 | 44.22           | 74.00          | -29.78      | peak   |
| 3   | 2402.620        | 92.05          | -0.81                 | 91.24           | --             | --          | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Band edge       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2480 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Horizontal      |                      |                |



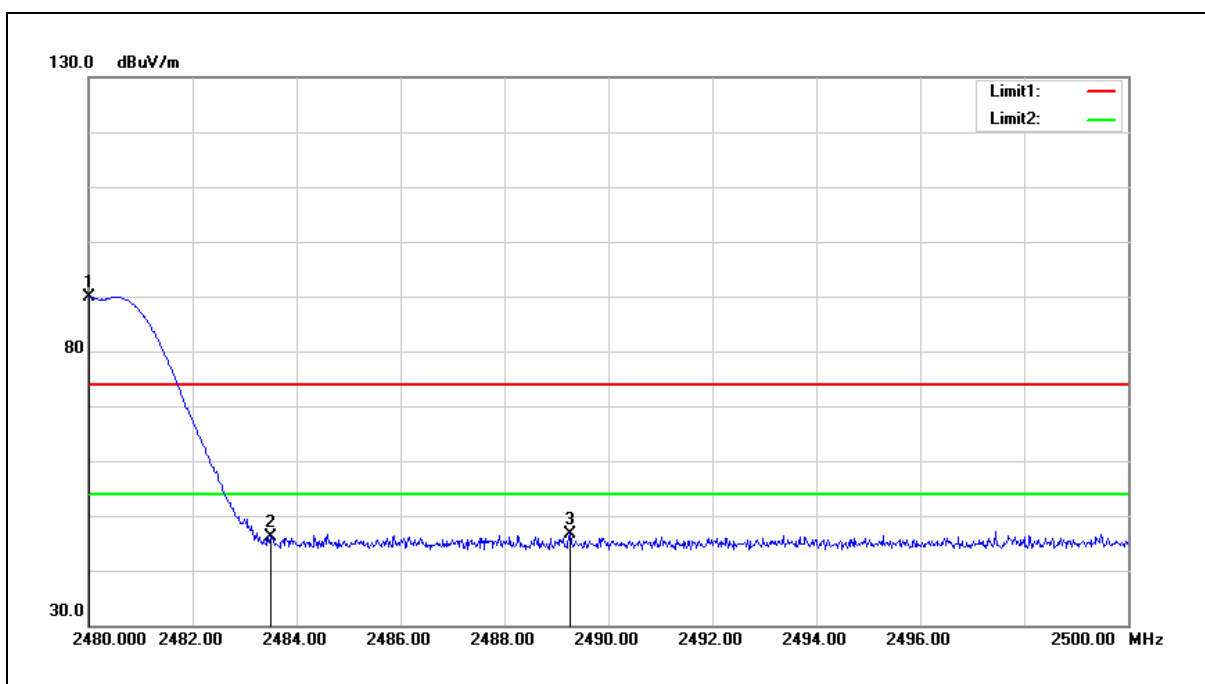
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 2480.540        | 93.64          | -0.41                 | 93.23           | --             | --          | peak   |
| 2   | 2483.500        | 47.79          | -0.40                 | 47.39           | 74.00          | -26.61      | peak   |
| 3   | 2483.720        | 48.94          | -0.40                 | 48.54           | 74.00          | -25.46      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

|             |                 |                      |                |
|-------------|-----------------|----------------------|----------------|
| Standard:   | FCC Part 15.247 | Test Distance:       | 3 m            |
| Test item:  | Band edge       | Power:               | AC 120 V/60 Hz |
| Frequency:  | 2480 MHz        | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH  |
| Mode:       | Mode 3          |                      |                |
| Ant.Polar.: | Vertical        |                      |                |



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1   | 2480.020        | 90.32          | -0.41                 | 89.91           | --             | --          | peak   |
| 2   | 2483.500        | 46.59          | -0.40                 | 46.19           | 74.00          | -27.81      | peak   |
| 3   | 2489.260        | 46.93          | -0.37                 | 46.56           | 74.00          | -27.44      | peak   |

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3.When the peak results are less than average limit, so not need to evaluate the average.

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