

RF Test Report

Applicant : Getac Technology Corporation
Product Type : Wireless module
Trade Name : Getac
Model Number : AX200NGW
Applicable Standard : FCC 47 CFR PART 15 SUBPART C
ANSI C63.10:2013
Received Date : May 13, 2020
Test Period : May 22, 2020
Issued Date : Jun. 23, 2020

Issued by

A Test Lab Techno Corp.
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Taoyuan City 33465, Taiwan (R.O.C.)
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Taiwan Accreditation Foundation accreditation number: 1330

Test Firm MRA designation number: TW0010

Note:

- 1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
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- 3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.



Revision History

| Rev. | Issued Date | Revisions | Revised By |
|------|---------------|--|-------------|
| 00 | May 27, 2020 | Initial Issue | Tobey Cheng |
| 01 | Jun. 23, 2020 | Update chapter 2 (P.6). Update chapter 5 (P.20~P.24). | Nina Lin |
| | | | |
| | | | |

Verification of Compliance

Issued Date: Jun. 23, 2020

Applicant : Getac Technology Corporation
Product Type : Wireless module
Trade Name : Getac
Model Number : AX200NGW
FCC ID : QYLAX200NG
EUT Rated Voltage : DC 3.7 V
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.
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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 | Note 2 |
| 15.247(b)(3) | Max. Output Power | N/A | Note 1 |
| 15.247(a)(2) | 6 dB RF Bandwidth | N/A | Note 1 |
| 15.247(e) | Maximum Power Spectral Density | N/A | Note 1 |
| 15.247(d) | Out of Band Conducted Spurious Emission | N/A | Note 1 |
| 15.203 | Antenna Requirement | N/A | Note 1 |

Note 1 : Class II permissive change. No need for verification.

Note 2 : Transmitter Radiated Emissions in below 1 GHz for Verification.

| 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 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 |

Decision Rule

■ Uncertainty is not included.

□ Uncertainty is included.

2 EUT Description

| | | |
|----------------------------|--|-----------------|
| Applicant | Getac Technology Corporation 5F.,Building A,No.209,Sec.1 Nangang.,Rd., Taipei City, 11568, Taiwan | |
| Manufacturer | Intel Mobile Communications 100 Center Point Circle, Suite 200, Columbia, South Carolina 29210, USA | |
| Product Type | Wireless module | |
| Trade Name | Getac | |
| Model No. | AX200NGW | |
| FCC ID | QYLAX200NG | |
| Class II Permissive Change | (1) This is to request a Class II permissive change for FCC ID:QYLAX200NG , originally granted on 2020/3/18 Modification: The major change filed under this application is: Change #1: Additional the accessory is for finger print (Egistec / ETU-801) | |
| Host Information | Product Type: Tablet Trade Name: Getac Model Name: UX10 | |
| Frequency Range | 2402 ~ 2480 MHz | |
| Modulation Type | GFSK | |
| Operate Temp. Range | 0 ~ +80 °C | |
| Antenna information | Type | Max. Gain (dBi) |
| | PIFA Antenna | 0.36 |
| RF Output Power | LE, GFSK: 0.00652 W | |
| | 2LE, GFSK: 0.00655 W | |
| | BLR C2, GFSK: 0.00650 W | |
| | BLR C8, GFSK: 0.00647 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 |
| Mode 4: BLR C2, GFSK Continuous TX Mode |
| Mode 5: BLR C8, GFSK Continuous TX Mode |

| Final-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 %.



| Decision of Test Mode | | | | |
|---------------------------|---------------------|------------------------|--|---------------|
| Description | Vender | Model Number | Remarks | SYSTEM 2 Full |
| Main Board | WUS Printed Circuit | R0B | --- | V |
| CPU | Intel | i7-10710U | 1.10 GHz, 1528 Pin | V |
| Menory | Kingston | CBD26D4S9S8ME-8 | DDR4, 2400 MHz, 8 GB | |
| | Kingston | CBD24D4S7D8ME-16 | DDR4, 2400 MHz, 16GB | V |
| HDD | LITEON | CV8-8E256 | 256 GB, 3D TLC AES | |
| | LITEON | CV8-8E512 | 512 GB, 3D TLC AES | V |
| LCM | K&D Technology | KD101N69-30NP | 1920 x 1080 (FHD) | |
| | Getac | GET-101 | Digitizer | V |
| Upside Option | Getac | UX10 PN7462 NFC Module | NXP RFID | |
| | Motorola | SE4710 | Moto, Zebra, SE4710 | V |
| STD Battery (Optional) | Getac | BP3S2P2100S-01 | 11.1 VDC, 4200 mAh | |
| Large Battery (Optional) | Getac | BP3S3P3450P-03 | 10.8 VDC, 9240 mAh | V |
| Bridge Battery (Optional) | Getac | BP2S1P2100S | Back Expansion Bay 7.4 VDC, 2100 mAh | V |
| Fingerprint CrossMatch(1) | Crossmatch | TCETC1 | Right Expansion Bay | |
| Finger print(2) | Egistec | ETU-801(*) | Right Expansion Bay | V |
| MSR Reader | Magtek | 99875494-3 | Right Expansion Bay | V |
| Module | Getac | EM7455 | WWAN/GPS | V |
| | LOCOSYS | MC 1010 | GPS/GNS | |
| | Intel | AX200NGW | WLAN/BT | V |
| Rear Camera 8M | Foxlink | FN80AF-704H | --- | V |
| Windows Hollow | Foxlink | FN23FF-705H | --- | V |
| Capacitive Pen | Who Care | N/A | --- | |
| AC Adapter (1) | FSP | FSP065-RBBN3 | INPUT: 100-240 VAC, 50-60 Hz, 1.5 A OUTPUT: 19 VDC, 3.42 A Non-Shielded,1.5 m, with one core | V |
| AC Adapter (2) | Getac | MTA190474W4 | INPUT: 100-240 VAC, 50-60 Hz, 1.6 A OUTPUT: 19 VDC, 4.74 A Non-Shielded,1.5 m with two cores | V |
| Power Cord (1) | I-SHENG | SP-305B+IS-034 | 3 pin, for U.S. power connector Non-Shielded,1.75 m | V |
| Power Cord (2) | I-SHENG | SP-305B+IS-034 | 3 pin, for European power connector Non-Shielded,1.75 m | |
| Digitizer Pen (Optional) | EMRight | GET-101 | --- | V |

Note 1: (*) Add keyparts.

Note 2: The device used two models of adapter, adapter number: MTA190474W4 is worst case to perform testing.

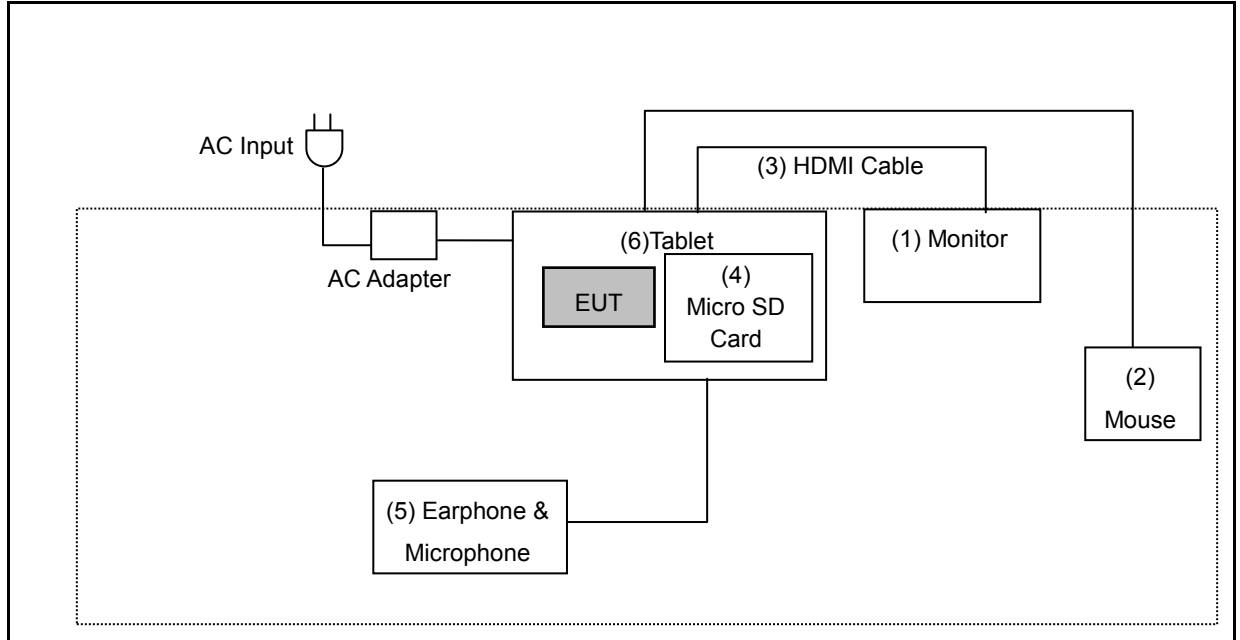
3.2. EUT Test Step

| | |
|---|--|
| 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. |

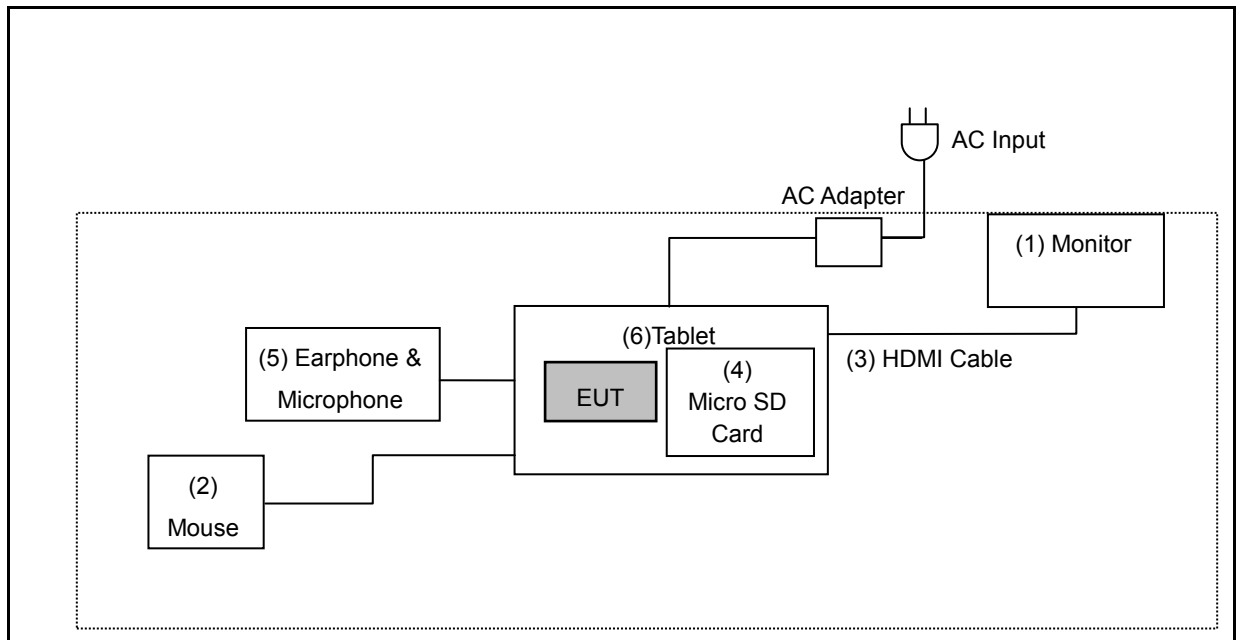
| Measurement Software | | | |
|----------------------|--------------------|----------|---------|
| No. | Description | Software | Version |
| 1 | Conducted Emission | EZ EMC | 1.1.4.3 |
| 2 | Radiated Emission | EZ EMC | 1.1.4.4 |

3.3. Configuration of Test System Details

Conducted Emission



Radiated Emissions



| Devices Description | | | | | |
|---------------------|--------------------------|--------------|-----------------|------------------------------|-----------------|
| | Product | Manufacturer | Model Number | Serial Number | Power Cord |
| (1) | Monitor | DELL | U2410f | CN-OJ257M-72872 -09J-01AL | --- |
| (2) | Mouse | DELL | MOCZUL | CN-049TWY-73820 -63N-01SB | --- |
| (3) | HDMI Cable | Avier | K48GHS | --- | Shielded, 1.7 m |
| (4) | Micro SD Card | Transcend | 9153BA 8G 07DS1 | --- | --- |
| (5) | Earphone & Microphone | HUAWEI | LYA-L29 | --- | --- |
| (6) | Tablet | Getac | UX10 | --- | --- |

3.4. Test Instruments

For Conducted Emission

Test Period: May 22, 2020

Testing Engineer: Paul Chiu

| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Cal. Period |
|---------------|--------------|----------------|---------------|------------|-------------|
| Test Receiver | R&S | ESCI | 100367 | 05/23/2019 | 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 | 05/23/2019 | 1 year |

For Radiated Emissions

Test Period: May 22, 2020

Testing Engineer: Ricky Liu

| Equipment | Manufacturer | Model Number | Serial Number | Cal. Date | Cal. Period |
|-------------------------------------|--------------------------|------------------------|---------------|------------|-------------|
| Spectrum Analyzer (10 Hz~44 GHz) | Keysight | N9010A | MY52221312 | 01/13/2020 | 1 year |
| Pre Amplifier (100 kHz~1.3 GHz) | Agilent | 8447D | 2944A11119 | 01/15/2020 | 1 year |
| Broadband Antenna | Schwarzbeck | VULB9168 | 416 | 10/23/2019 | 1 year |
| Loop Antenna | COM-POWER 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 -13000 | 170814 | 10/29/2019 | 1 year |
| Microwave Cable | EMCI | EMC102-KM-KM- 14000 | 151001 | 02/20/2020 | 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 |

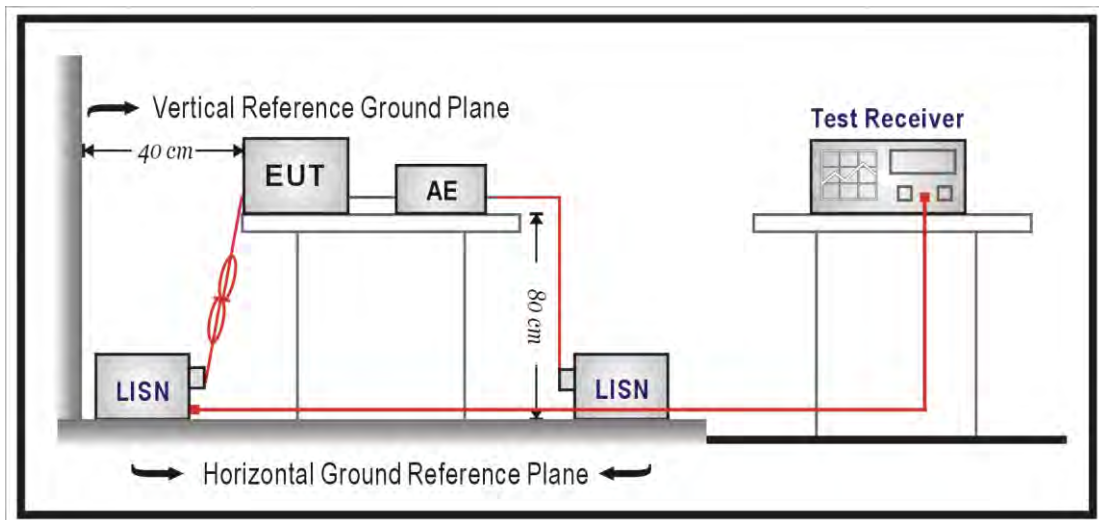
4 Measurement Procedure

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 Ω ports of the LISN shall be resistively terminated into 50 Ω 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

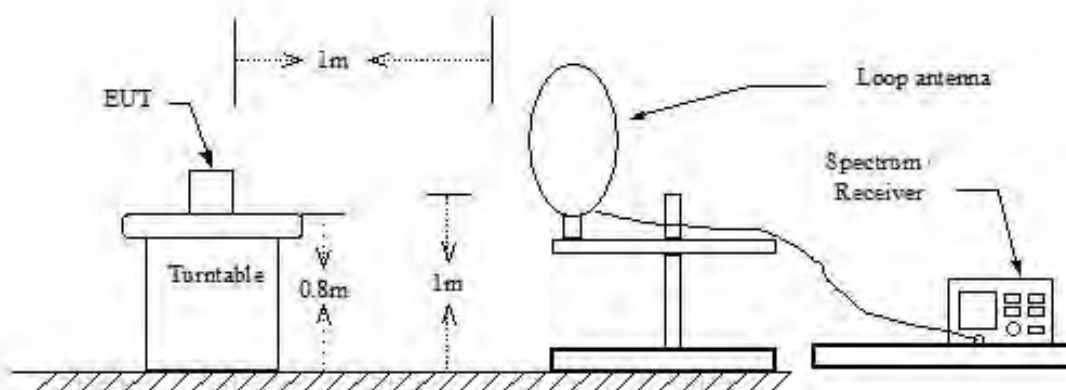
According to §15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

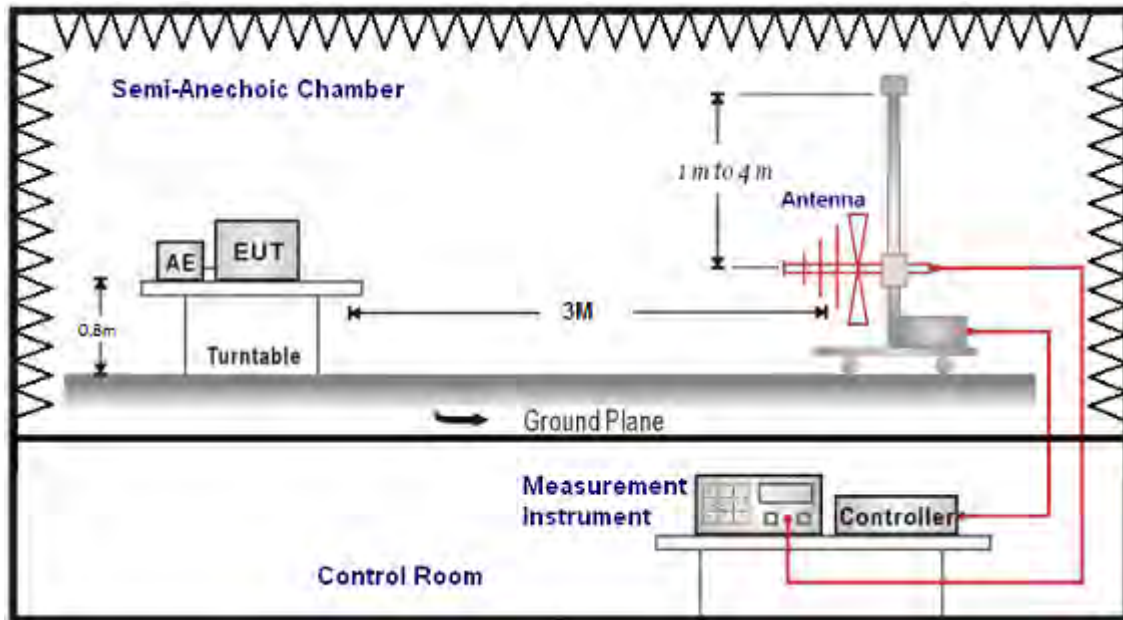
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

■ Setup

9 kHz ~ 30 MHz



Below 1 GHz



■ 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

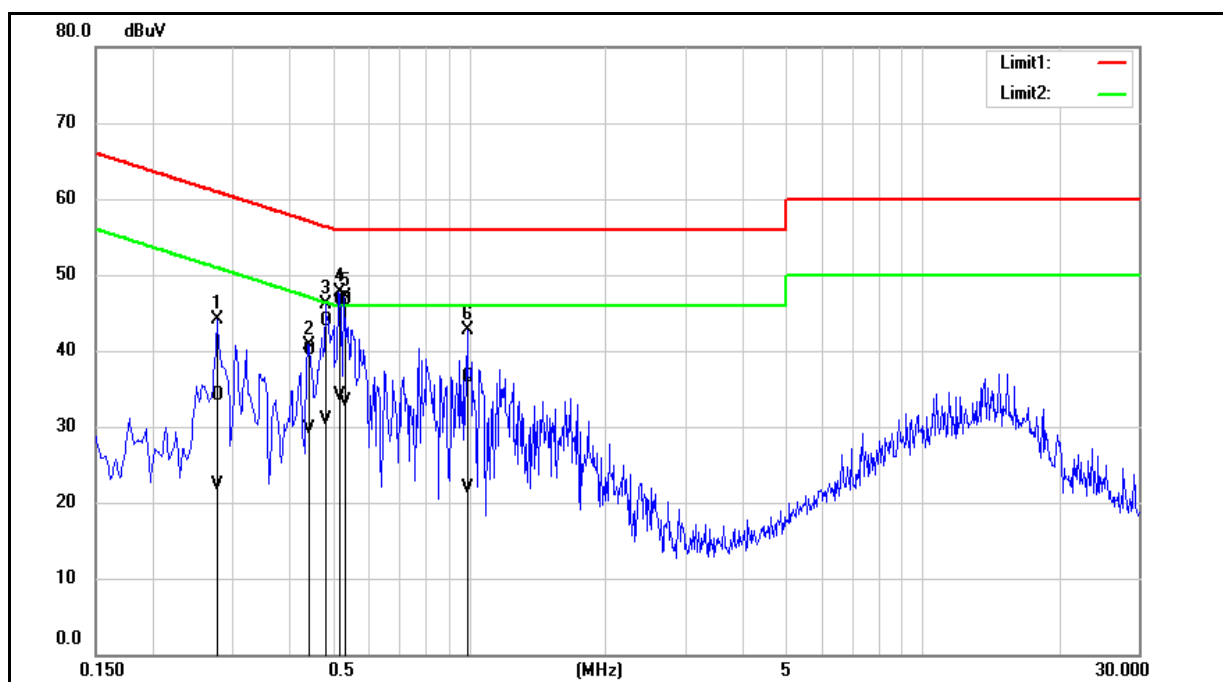
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

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.

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: | | | |

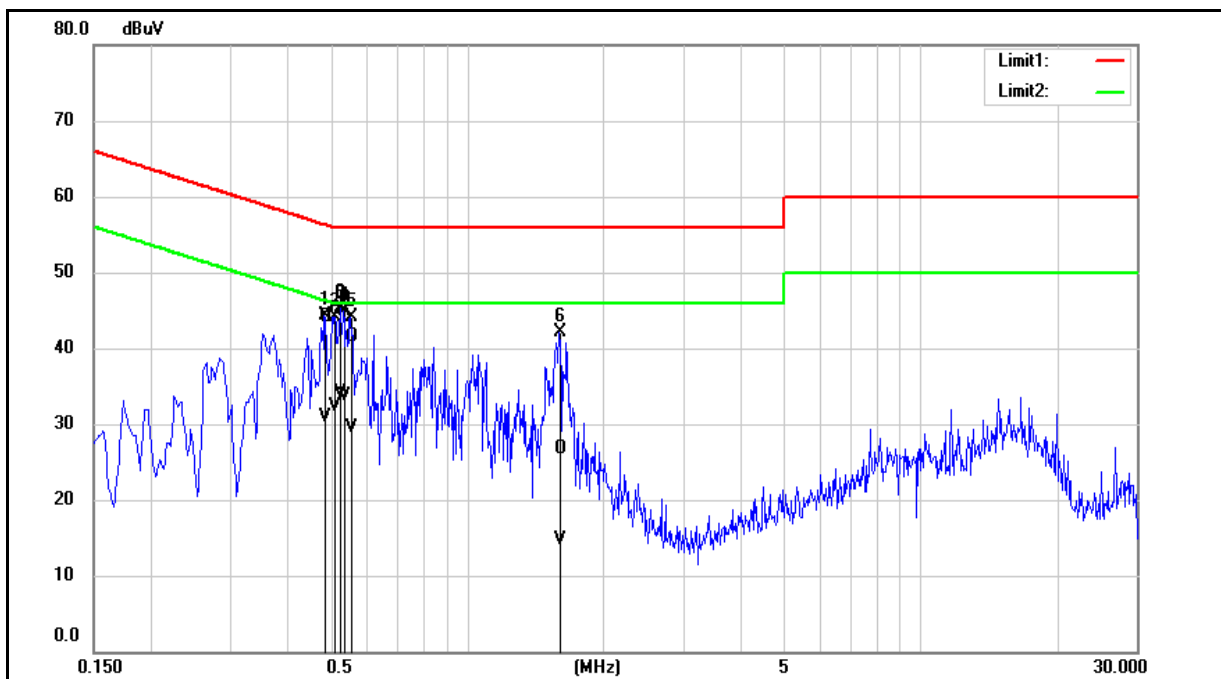


| No. | Frequency (MHz) | QP reading (dBuV) | AVG reading (dBuV) | Correction factor (dB) | QP result (dBuV) | AVG result (dBuV) | QP limit (dBuV) | AVG limit (dBuV) | QP margin (dB) | AVG margin (dB) | Remark |
|-----|-----------------|-------------------|--------------------|------------------------|------------------|-------------------|-----------------|------------------|----------------|-----------------|--------|
| 1 | 0.2780 | 24.41 | 12.63 | 9.65 | 34.06 | 22.28 | 60.88 | 50.88 | -26.82 | -28.60 | Pass |
| 2 | 0.4420 | 30.36 | 20.00 | 9.66 | 40.02 | 29.66 | 57.02 | 47.02 | -17.00 | -17.36 | Pass |
| 3 | 0.4820 | 34.31 | 21.23 | 9.66 | 43.97 | 30.89 | 56.30 | 46.30 | -12.33 | -15.41 | Pass |
| 4 | 0.5180 | 36.99 | 24.46 | 9.66 | 46.65 | 34.12 | 56.00 | 46.00 | -9.35 | -11.88 | Pass |
| 5 | 0.5300 | 37.04 | 23.67 | 9.66 | 46.70 | 33.33 | 56.00 | 46.00 | -9.30 | -12.67 | Pass |
| 6 | 0.9940 | 26.80 | 12.29 | 9.68 | 36.48 | 21.97 | 56.00 | 46.00 | -19.52 | -24.03 | 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 (MHz) | QP reading (dBuV) | AVG reading (dBuV) | Correction factor (dB) | QP result (dBuV) | AVG result (dBuV) | QP limit (dBuV) | AVG limit (dBuV) | QP margin (dB) | AVG margin (dB) | Remark |
|-----|--------------------|-------------------------|--------------------------|------------------------------|------------------------|-------------------------|-----------------------|------------------------|----------------------|-----------------------|--------|
| 1 | 0.4860 | 34.37 | 21.29 | 9.69 | 44.06 | 30.98 | 56.24 | 46.24 | -12.18 | -15.26 | Pass |
| 2 | 0.5100 | 35.38 | 22.71 | 9.69 | 45.07 | 32.40 | 56.00 | 46.00 | -10.93 | -13.60 | Pass |
| 3 | 0.5260 | 37.40 | 24.42 | 9.69 | 47.09 | 34.11 | 56.00 | 46.00 | -8.91 | -11.89 | Pass |
| 4 | 0.5340 | 36.74 | 23.98 | 9.69 | 46.43 | 33.67 | 56.00 | 46.00 | -9.57 | -12.33 | Pass |
| 5 | 0.5540 | 31.77 | 19.84 | 9.69 | 41.46 | 29.53 | 56.00 | 46.00 | -14.54 | -16.47 | Pass |
| 6 | 1.5980 | 17.06 | 4.99 | 9.73 | 26.79 | 14.72 | 56.00 | 46.00 | -29.21 | -31.28 | Pass |

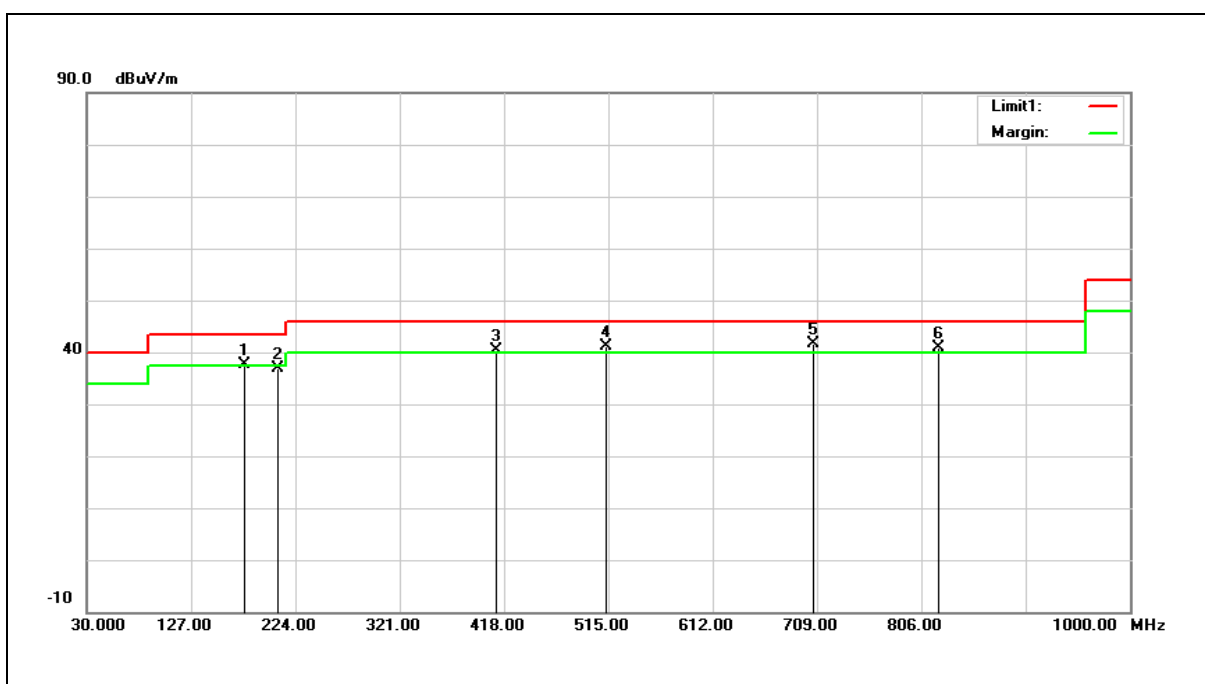
Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

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

Annex B. 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: | 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 | 176.4700 | 44.01 | -6.32 | 37.69 | 43.50 | -5.81 | QP |
| 2 | 207.5100 | 44.47 | -7.70 | 36.77 | 43.50 | -6.73 | QP |
| 3 | 411.2100 | 42.22 | -1.78 | 40.44 | 46.00 | -5.56 | QP |
| 4 | 513.0600 | 40.98 | 0.17 | 41.15 | 46.00 | -4.85 | QP |
| 5 | 705.1200 | 37.54 | 4.05 | 41.59 | 46.00 | -4.41 | QP |
| 6 | 821.5200 | 34.80 | 6.18 | 40.98 | 46.00 | -5.02 | QP |

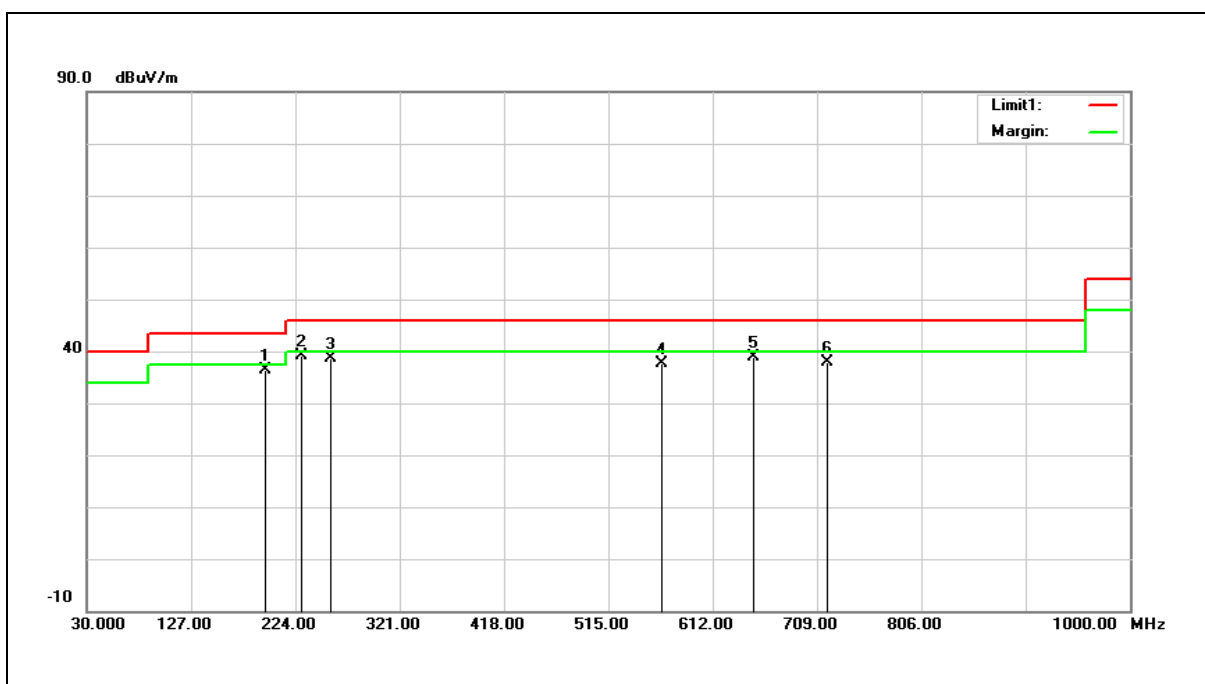
Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading (dBuV).

Example: $37.69 = -6.32 + 44.01$

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: | Radiated Emission | 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 | 195.8700 | 43.94 | -7.56 | 36.38 | 43.50 | -7.12 | QP |
| 2 | 229.8200 | 46.16 | -7.00 | 39.16 | 46.00 | -6.84 | QP |
| 3 | 256.9800 | 44.42 | -5.70 | 38.72 | 46.00 | -7.28 | QP |
| 4 | 564.4700 | 36.20 | 1.46 | 37.66 | 46.00 | -8.34 | QP |
| 5 | 649.8300 | 36.03 | 2.91 | 38.94 | 46.00 | -7.06 | QP |
| 6 | 718.7000 | 33.38 | 4.41 | 37.79 | 46.00 | -8.21 | QP |

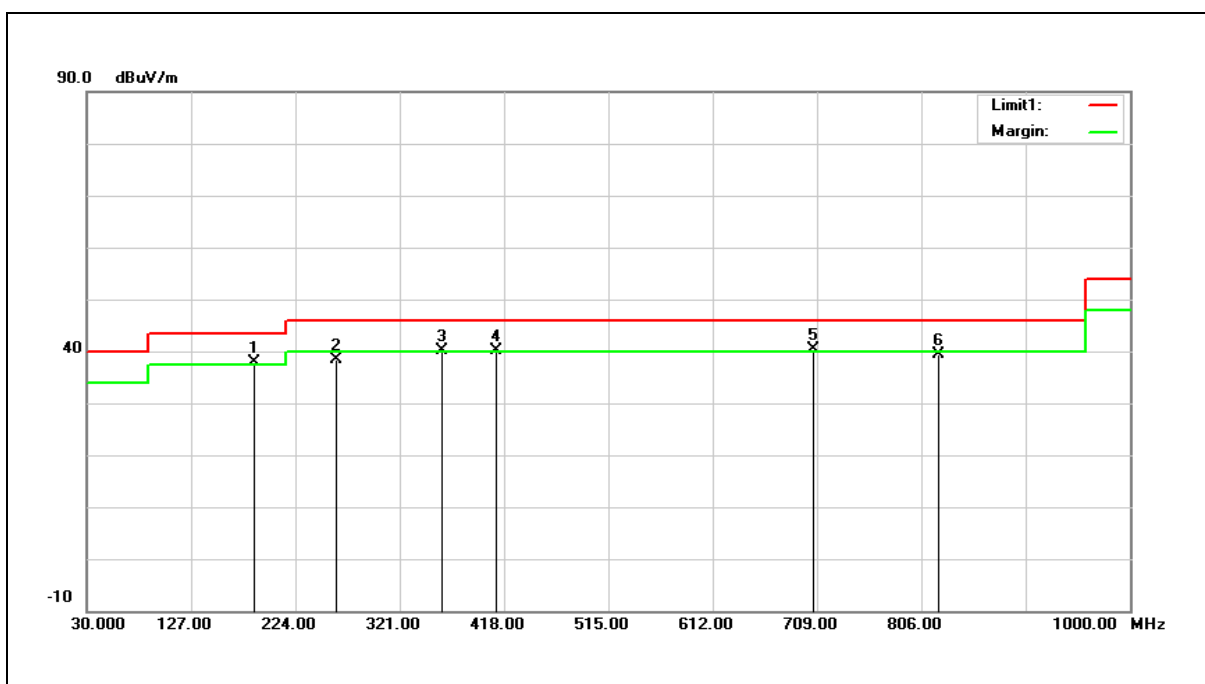
Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

Example: $36.38 = -7.56 + 43.94$

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: | Radiated Emission | Power: | AC 120 V/60 Hz |
| Frequency: | 2480 MHz | Temp.(°C)/Hum.(%RH): | 26(°C)/60 %RH |
| Mode: | Mode 3 | | |
| Ant.Polar.: | Horizontal | | |



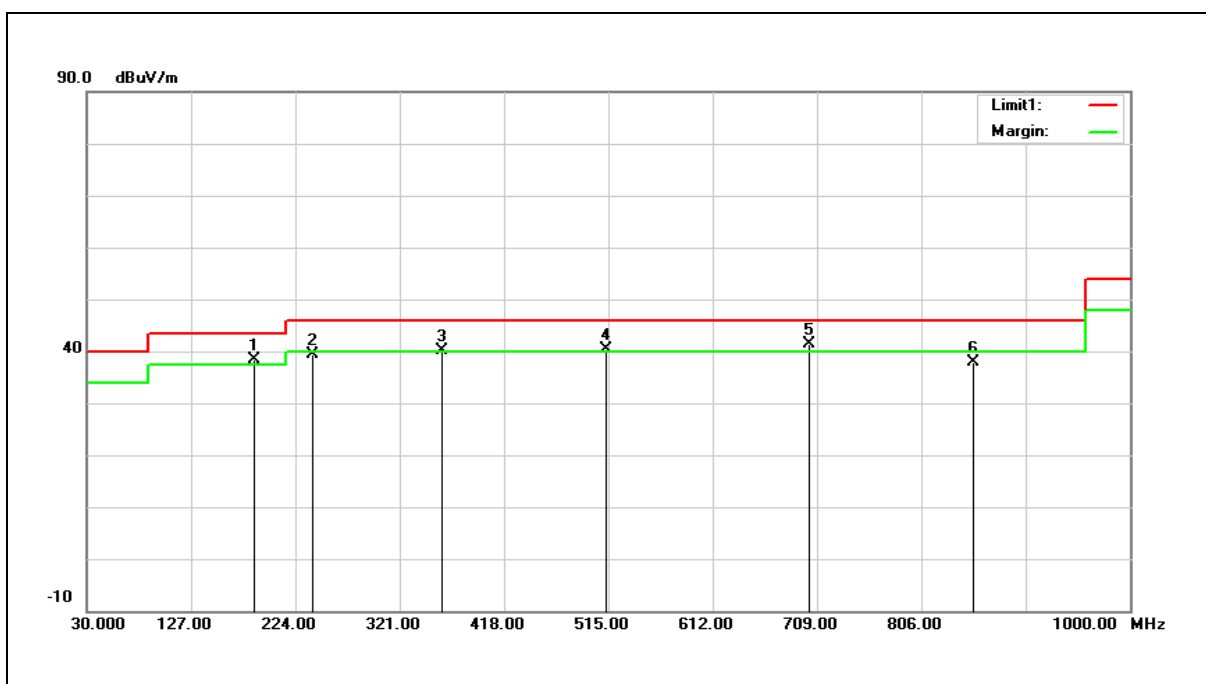
| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|-----------------------|-----------------|----------------|-------------|--------|
| 1 | 186.1700 | 45.08 | -7.12 | 37.96 | 43.50 | -5.54 | QP |
| 2 | 261.8300 | 43.79 | -5.49 | 38.30 | 46.00 | -7.70 | QP |
| 3 | 359.8000 | 43.35 | -3.14 | 40.21 | 46.00 | -5.79 | QP |
| 4 | 411.2100 | 41.83 | -1.78 | 40.05 | 46.00 | -5.95 | QP |
| 5 | 705.1200 | 36.41 | 4.05 | 40.46 | 46.00 | -5.54 | QP |
| 6 | 821.5200 | 33.11 | 6.18 | 39.29 | 46.00 | -6.71 | QP |

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: | Radiated Emission | 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 | 186.1700 | 45.52 | -7.12 | 38.40 | 43.50 | -5.10 | QP |
| 2 | 240.4900 | 45.60 | -6.15 | 39.45 | 46.00 | -6.55 | QP |
| 3 | 359.8000 | 43.17 | -3.14 | 40.03 | 46.00 | -5.97 | QP |
| 4 | 513.0600 | 40.27 | 0.17 | 40.44 | 46.00 | -5.56 | QP |
| 5 | 701.2400 | 37.50 | 3.96 | 41.46 | 46.00 | -4.54 | QP |
| 6 | 854.5000 | 31.05 | 6.73 | 37.78 | 46.00 | -8.22 | QP |

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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