

# FCC Test Report

**Report No.** : 1812C50616812504

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**Applicant** : Emdoor Information Co.,Ltd.

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**Address** : Emdoor Building, No.8 Guangke 1st Road,  
Pingshan District, Shenzhen, China

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**Product Name** : Rugged Tablet

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**Report Date** : 2026-02-27

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**Shenzhen Anbotek Compliance Laboratory Limited**



## Shenzhen Anbotek Compliance Laboratory Limited

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## TEST REPORT

Applicant : Emdoor Information Co.,Ltd.  
Manufacturer : Emdoor Information Co.,Ltd.  
Product Name : Rugged Tablet  
Model No. : T1, T1 Pro, T1 Max, T1 Ultra, T2, T2 Pro, T2 Max, T2 Ultra, T3, T3 Pro, T3 Max, T3 Ultra, T4, T4 Pro, T4 Max, T4 Ultra, EM-T89, EM-T895, EM-IS19N  
Trade Mark : Emdoor  
Rating(s) : Input: 5V=3A, 9V=3A, 12V=2.5A, 15V=2A  
Battery Capacity: DC 3.87V, 8000mAh  
**47 CFR Part 15E**  
Test Standard(s) : **ANSI C63.10-2020**  
**KDB 789033 D02 General UNII Test Procedures New Rules v02r01**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: 2025-11-20

Date of Test: 2025-11-20 to 2025-12-17

Prepared By:



(Lene Chen)

Approved & Authorized Signer:



(Hugo Chen)

Revision History

| Report Version | Description     | Issued Date |
|----------------|-----------------|-------------|
| R00            | Original Issue. | 2026-02-27  |
|                |                 |             |
|                |                 |             |

## 1. General Information

### 1.1. Client Information

|              |   |                                                                                                                                                        |
|--------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant    | : | Emdoor Information Co.,Ltd.                                                                                                                            |
| Address      | : | Emdoor Building, No.8 Guangke 1st Road, Pingshan District, Shenzhen, China                                                                             |
| Manufacturer | : | Emdoor Information Co.,Ltd.                                                                                                                            |
| Address      | : | Emdoor Building, No.8 Guangke 1st Road, Pingshan District, Shenzhen, China                                                                             |
| Factory      | : | Emdoor Information Co.,Ltd.                                                                                                                            |
| Address      | : | Room 901, Building 1, Emdoor Building, No. 8 Guangke 1st Road, Lao Keng Community, Longtian Subdistrict, Pingshan District, Shenzhen, Guangdong, China |

### 1.2. Description of Device (EUT)

|                         |   |                                                                                                                                                                                                                                                                                        |
|-------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name            | : | Rugged Tablet                                                                                                                                                                                                                                                                          |
| Model No.               | : | T1, T1 Pro, T1 Max, T1 Ultra, T2, T2 Pro, T2 Max, T2 Ultra, T3, T3 Pro, T3 Max, T3 Ultra, T4, T4 Pro, T4 Max, T4 Ultra, EM-T89, EM-T895, EM-IS19N<br>(Note: All samples are the same except the model name, so we prepare "T1" for test only.)                                         |
| Trade Mark              | : | Emdoor                                                                                                                                                                                                                                                                                 |
| Test Power Supply       | : | AC 120V/60Hz for adapter; DC 3.87V battery inside                                                                                                                                                                                                                                      |
| Test Sample No.         | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample)                                                                                                                                                                                                                                        |
| Adapter                 | : | Manufacturer: Guangdong Quanzhi Technology Co.,Ltd.<br>Model: QZ-03301AC00<br>Input: 100-240V~50/60Hz 1.2A<br>Output(PD): 5.0V=3.0A 15.0W<br>or 9.0V=3.0A 27.0W<br>or 12.0V=2.5A 30.0W<br>or 15.0V=2.0A 30.0W<br>or 20.0V=1.5A 30.0W Max<br>(PPS)5.0V-11.0V=3.0A 33.0WMax              |
| <b>RF Specification</b> |   |                                                                                                                                                                                                                                                                                        |
| Operation Frequency     | : | 802.11a/n(HT20)/ac(HT20):<br>U-NII Band 1: 5180MHz to 5240MHz;<br>U-NII Band 3: 5745MHz to 5825MHz;<br><br>802.11n(HT40)/ac(HT40):<br>U-NII Band 1: 5190MHz to 5230MHz;<br>U-NII Band 3: 5755MHz to 5795MHz;<br><br>802.11ac(HT80):<br>U-NII Band 1: 5210MHz;<br>U-NII Band 3: 5775MHz |

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|                                                                                                                                                                                                      |   |                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of Channel                                                                                                                                                                                    | : | 802.11a/n(HT20)/ac(HT20):<br>U-NII Band 1: 4;<br>U-NII Band 3: 5;<br><br>802.11n(HT40)/ac(HT40):<br>U-NII Band 1: 2;<br>U-NII Band 3: 2;<br><br>802.11ac(HT80):<br>U-NII Band 1: 1;<br>U-NII Band 3: 1 |
| Modulation Type                                                                                                                                                                                      | : | 802.11a: OFDM(BPSK, QPSK, 16QAM, 64QAM);<br>802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);<br>802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)                                                             |
| Device Type                                                                                                                                                                                          | : | Client Devices                                                                                                                                                                                         |
| Antenna Type                                                                                                                                                                                         | : | FPC Antenna                                                                                                                                                                                            |
| Antenna Gain(Peak)                                                                                                                                                                                   | : | WiFi 5.2G: 2.19dBi<br>WiFi 5.8G: 4.99dBi                                                                                                                                                               |
| <b>Remark:</b><br>(1) All of the RF specification are provided by customer.<br>(2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |   |                                                                                                                                                                                                        |

### 1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|-------|--------------|-----------|------------|
| /     | /            | /         | /          |

### 1.4. Operation channel list

Operation Band: U-NII Band 1

|            |                 |            |                 |            |                 |
|------------|-----------------|------------|-----------------|------------|-----------------|
| Bandwidth: | 20MHz           | Bandwidth: | 40MHz           | Bandwidth: | 80MHz           |
| Channel    | Frequency (MHz) | Channel    | Frequency (MHz) | Channel    | Frequency (MHz) |
| 36         | 5180            | 38         | 5190            | 42         | 5210            |
| 40         | 5200            | 46         | 5230            | /          | /               |
| 44         | 5220            | /          | /               | /          | /               |
| 48         | 5240            | /          | /               | /          | /               |

Operation Band: U-NII Band 3

|            |                 |            |                 |            |                 |
|------------|-----------------|------------|-----------------|------------|-----------------|
| Bandwidth: | 20MHz           | Bandwidth: | 40MHz           | Bandwidth: | 80MHz           |
| Channel    | Frequency (MHz) | Channel    | Frequency (MHz) | Channel    | Frequency (MHz) |
| 149        | 5745            | 151        | 5755            | 155        | 5775            |
| 153        | 5765            | 159        | 5795            | /          | /               |
| 157        | 5785            | /          | /               | /          | /               |
| 161        | 5805            | /          | /               | /          | /               |
| 165        | 5825            | /          | /               | /          | /               |

### 1.5. Description of Test Modes

| Pretest Modes | Descriptions                                                                                                                                                                                                                        |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TM1           | Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.               |
| TM2           | Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.  |
| TM3           | Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

### 1.6. Measurement Uncertainty

| Parameter                                                                                                                                                                                                                    | Uncertainty                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Conducted emissions (AMN 150kHz~30MHz)                                                                                                                                                                                       | 3.2dB                                                     |
| Dwell Time                                                                                                                                                                                                                   | 2%                                                        |
| Occupied Bandwidth                                                                                                                                                                                                           | 925Hz                                                     |
| Conducted Output Power                                                                                                                                                                                                       | 0.76dB                                                    |
| Power Spectral Density                                                                                                                                                                                                       | 0.76dB                                                    |
| Radiated spurious emissions (above 1GHz)                                                                                                                                                                                     | 1G-6GHz: 4.64dB;<br>6G-18GHz: 4.82dB<br>18G-40GHz: 5.62dB |
| Radiated emissions (Below 30MHz)                                                                                                                                                                                             | 3.26dB                                                    |
| Radiated spurious emissions (30MHz~1GHz)                                                                                                                                                                                     | Horizontal: 3.70dB; Vertical: 4.42dB                      |
| The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                                                           |

## 1.7. Additional Instructions

Power level setup in software: Press the button to enter engineering mode and adjust the transmission frequency.

Operation Band: U-NII Band 1

| Mode            | Power level | Transmitting type |
|-----------------|-------------|-------------------|
| 802.11a         | default     | data pack TX      |
| 802.11n(HT20)   | default     | data pack TX      |
| 802.11n(HT40)   | default     | data pack TX      |
| 802.11ac(VHT20) | default     | data pack TX      |
| 802.11ac(VHT40) | default     | data pack TX      |
| 802.11ac(VHT80) | default     | data pack TX      |

Operation Band: U-NII Band 3

| Mode            | Power level | Transmitting type |
|-----------------|-------------|-------------------|
| 802.11a         | default     | data pack TX      |
| 802.11n(HT20)   | default     | data pack TX      |
| 802.11n(HT40)   | default     | data pack TX      |
| 802.11ac(VHT20) | default     | data pack TX      |
| 802.11ac(VHT40) | default     | data pack TX      |
| 802.11ac(VHT80) | default     | data pack TX      |

## 1.8. Test Summary

| Test Items                                 | Test Modes | Status |
|--------------------------------------------|------------|--------|
| Conducted Emission at AC power line        | Mode1,2,3  | P      |
| Duty Cycle                                 | Mode1,2,3  | P      |
| Emission bandwidth and occupied bandwidth  | Mode1,2,3  | P      |
| Maximum conducted output power             | Mode1,2,3  | P      |
| Power spectral density                     | Mode1,2,3  | P      |
| Band edge emissions (Radiated)             | Mode1,2,3  | P      |
| Undesirable emission limits (below 1GHz)   | Mode1,2,3  | P      |
| Undesirable emission limits (above 1GHz)   | Mode1,2,3  | P      |
| Note:<br>P: Pass<br>N: N/A, not applicable |            |        |

## 1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### **FCC-Registration No.:279531**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.  
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

## 1.10. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

### 1.11. Test Equipment List

| Conducted Emission at AC power line |                                                       |                  |              |            |              |
|-------------------------------------|-------------------------------------------------------|------------------|--------------|------------|--------------|
| Item                                | Equipment                                             | Manufacturer     | Model No.    | Last Cal.  | Cal.Due Date |
| 1                                   | L.I.S.N. Artificial Mains Network                     | Rohde & Schwarz  | ENV216       | 2025-09-05 | 2026-09-04   |
| 2                                   | Software Name EZ-EMC                                  | Farad Technology | ANB-03A      | /          | /            |
| 3                                   | EMI Test Receiver(CE2#)                               | Rohde & Schwarz  | ESPI3        | 2025-09-05 | 2026-09-04   |
| 4                                   | Three Phase V-type Artificial Power Network LISN 200A | EMtrace          | PWL-50-3200A | 2025-02-21 | 2026-02-20   |

| Maximum conducted output power<br>Power spectral density<br>Duty Cycle<br>Emission bandwidth and occupied bandwidth |                                       |                 |            |            |              |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------|------------|------------|--------------|
| Item                                                                                                                | Equipment                             | Manufacturer    | Model No.  | Last Cal.  | Cal.Due Date |
| 1                                                                                                                   | Constant Temperature Humidity Chamber | ZHONGJIAN       | ZJ-KHWS80B | 2025-10-10 | 2026-10-09   |
| 2                                                                                                                   | DC Power Supply                       | IVYTECH         | IV3605     | 2025-09-05 | 2026-09-04   |
| 3                                                                                                                   | Spectrum Analyzer                     | Rohde & Schwarz | FSV40-N    | 2025-04-25 | 2026-04-24   |
| 4                                                                                                                   | MXA Spectrum Analysis                 | KEYSIGHT        | N9020A     | 2025-07-28 | 2026-07-27   |
| 5                                                                                                                   | Oscilloscope                          | Tektronix       | MDO3012    | 2025-09-30 | 2026-09-29   |
| 6                                                                                                                   | MXG RF Vector Signal Generator        | Agilent         | N5182A     | 2025-07-28 | 2026-07-27   |
| 7                                                                                                                   | RF Test software                      | Toscend         | JS1120-3   | /          | /            |

| Band edge emissions (Radiated)           |                            |                  |                  |            |              |
|------------------------------------------|----------------------------|------------------|------------------|------------|--------------|
| Undesirable emission limits (above 1GHz) |                            |                  |                  |            |              |
| Item                                     | Equipment                  | Manufacturer     | Model No.        | Last Cal.  | Cal.Due Date |
| 1                                        | EMI Test Receiver(RE2/3#)  | Rohde & Schwarz  | ESR26            | 2025-01-14 | 2026-01-13   |
| 2                                        | EMI Preamplifier           | SKET Electronic  | LNPA-0118G-45    | 2025-01-13 | 2026-01-12   |
| 3                                        | Double Ridged Horn Antenna | SCHWARZBECK      | BBHA 9120D       | 2025-09-05 | 2028-09-04   |
| 4                                        | EMI Test Software EZ-EMC   | SHURPLE          | N/A              | /          | /            |
| 5                                        | Horn Antenna               | A-INFO           | LB-180400-KF     | 2024-01-22 | 2027-01-21   |
| 6                                        | Spectrum Analyzer          | Rohde & Schwarz  | FSV40-N          | 2025-04-25 | 2026-04-24   |
| 7                                        | Amplifier                  | Talent Microwave | TLLA18G40G-53-30 | 2025-02-24 | 2026-02-23   |

| Undesirable emission limits (below 1GHz) |                           |                 |           |            |              |
|------------------------------------------|---------------------------|-----------------|-----------|------------|--------------|
| Item                                     | Equipment                 | Manufacturer    | Model No. | Last Cal.  | Cal.Due Date |
| 1                                        | EMI Test Receiver(RE2/3#) | Rohde & Schwarz | ESR26     | 2025-01-14 | 2026-01-13   |
| 2                                        | Pre-amplifier             | SONOMA          | 310N      | 2025-01-14 | 2026-01-13   |
| 3                                        | Bilog Broadband Antenna   | Schwarzbeck     | VULB9163  | 2025-09-05 | 2028-09-04   |
| 4                                        | Loop Antenna (9K-30M)     | Schwarzbeck     | FMZB1519B | 2025-09-05 | 2026-09-04   |
| 5                                        | EMI Test Software EZ-EMC  | SHURPLE         | N/A       | /          | /            |

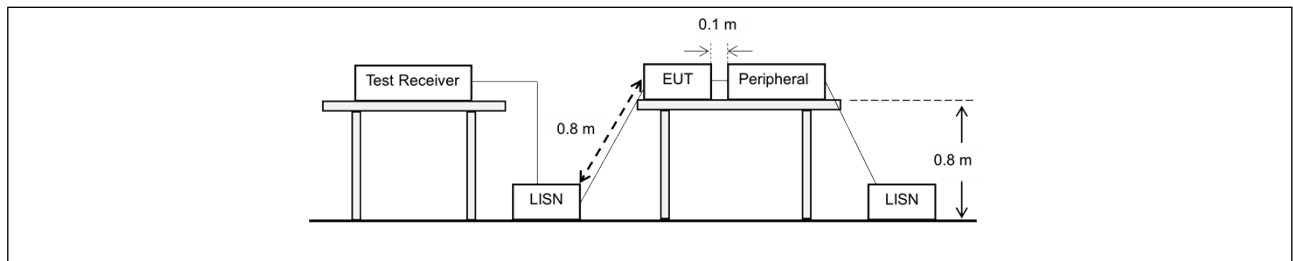
## 2. Conducted Emission at AC power line

|                                                 |                              |                        |           |
|-------------------------------------------------|------------------------------|------------------------|-----------|
| Test Requirement:                               | 47 CFR Part 15.207(a)        |                        |           |
| Test Limit:                                     | Frequency of emission (MHz)  | Conducted limit (dBμV) |           |
|                                                 |                              | Quasi-peak             | Average   |
|                                                 | 0.15-0.5                     | 66 to 56*              | 56 to 46* |
|                                                 | 0.5-5                        | 56                     | 46        |
|                                                 | 5-30                         | 60                     | 50        |
| *Decreases with the logarithm of the frequency. |                              |                        |           |
| Test Method:                                    | ANSI C63.10-2020 section 6.2 |                        |           |

### 2.1. EUT Operation

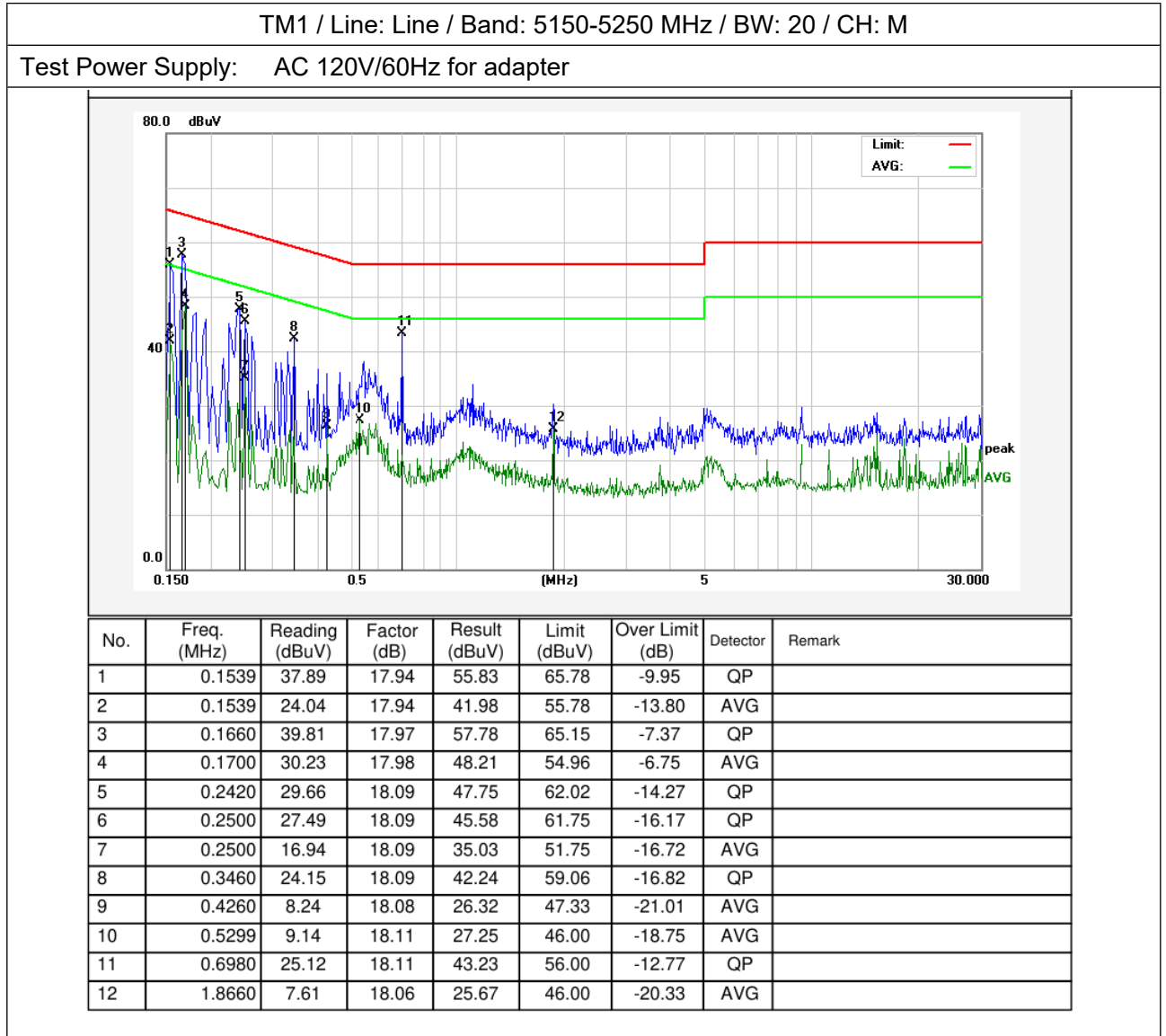
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test mode:             | <p>1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> |

### 2.2. Test Setup

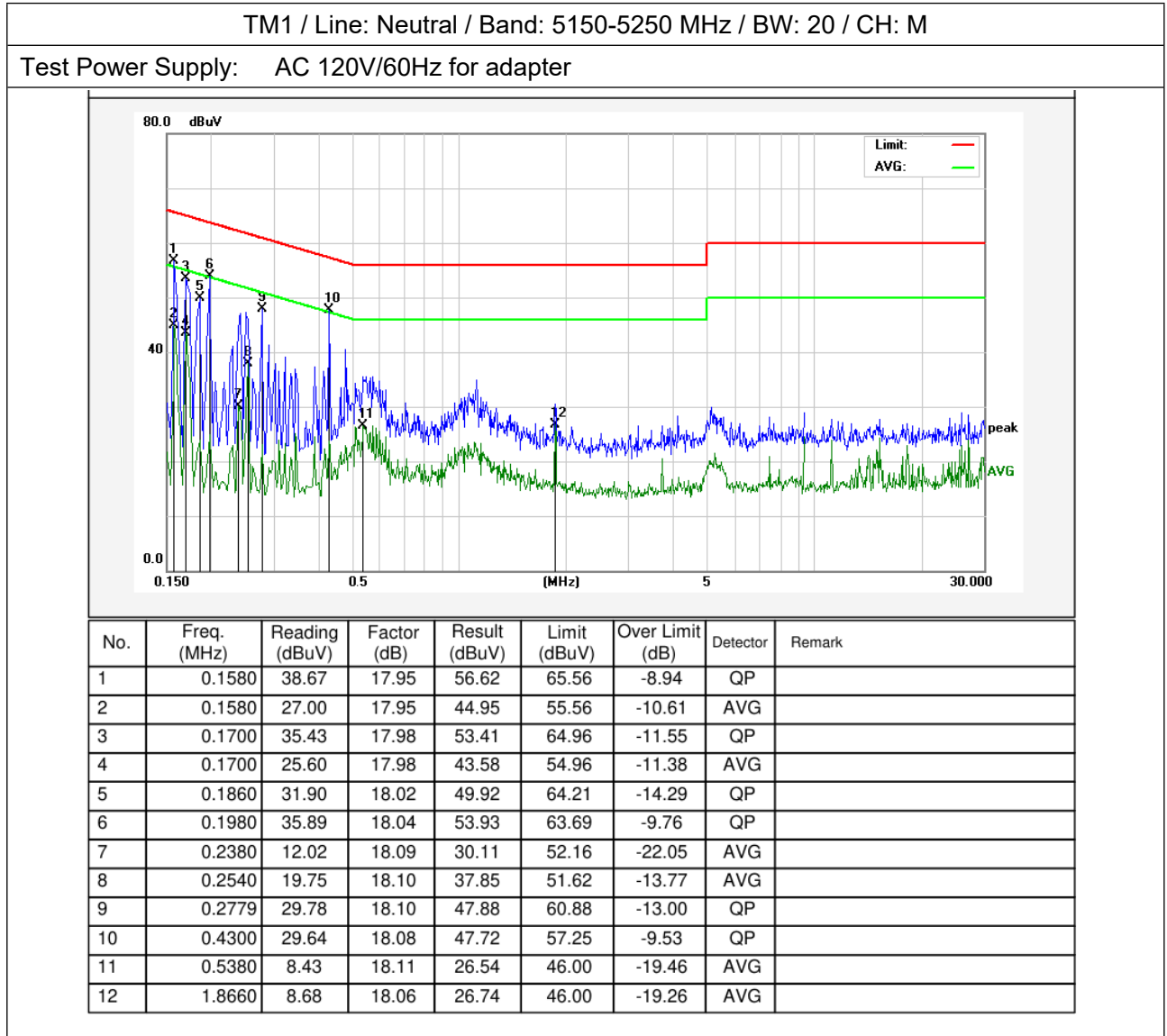


## 2.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 24.8 °C | Humidity: | 59 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 24.8 °C | Humidity: | 59 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



Note:

- Only record the worst data in the report.
- Result(dBμV) = Reading(dBμV) + Factor(dB);  
Over Limit(dB) = Result(dBμV) - Limit(dBμV)

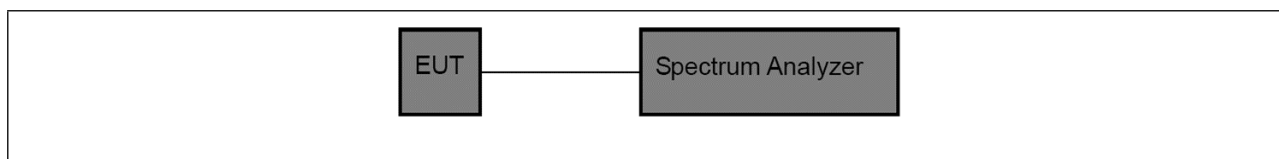
### 3. Duty Cycle

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x, and maximum-power transmission duration, T, are required for each tested mode of operation.                                                                                                                                                   |
| Test Limit:       | No limits, only for report use.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Method:      | ANSI C63.10-2020 section 12.2 (b)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Procedure:        | i) Set the center frequency of the instrument to the center frequency of the transmission.<br>ii) Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value.<br>iii) Set VBW $\geq$ RBW.<br>iv) Set detector = peak.<br>v) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ , where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100. |

#### 3.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test mode:             | 1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.<br>2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.<br>3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report. |

#### 3.2. Test Setup



#### 3.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

Please Refer to Appendix for Details.

#### 4. Emission bandwidth and occupied bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.<br>U-NII 3, U-NII 4: 47 CFR Part 15.407(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Limit:       | U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.<br>U-NII 3, U-NII 4: Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Method:      | ANSI C63.10-2020, section 6.9 & 12.5<br>KDB 789033 D02, Clause C.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Procedure:        | <p>Emission bandwidth:</p> <p>a) Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.</p> <p>b) Set the VBW &gt; RBW.</p> <p>c) Detector = peak.</p> <p>d) Trace mode = max-hold.</p> <p>e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission.</p> <p>Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.</p> <p>Occupied bandwidth:</p> <p>a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (OBW/RBW)]</math> below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Step a) through step c) might require iteration to adjust within the specified range.</p> <p>e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.</p> <p>f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.</p> <p>g) If the instrument does not have a 99% power bandwidth function, then the trace data points are</p> |

#### Shenzhen Anbotek Compliance Laboratory Limited

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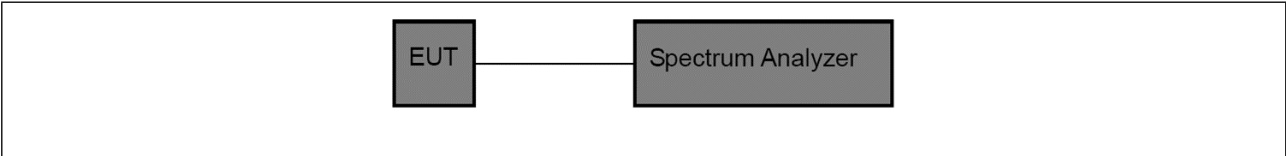
Hotline: 400-003-0500 web: [www.anbotek.com](http://www.anbotek.com) E-mail: [service@anbotek.com](mailto:service@anbotek.com)

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.</p> <p>h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p> <p>6 dB emission bandwidth:</p> <p>a) Set RBW = 100 kHz.</p> <p>b) Set the video bandwidth (VBW) <math>\geq 3 \times</math> RBW.</p> <p>c) Detector = Peak.</p> <p>d) Trace mode = max hold.</p> <p>e) Sweep = auto couple.</p> <p>f) Allow the trace to stabilize.</p> <p>g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.</p> |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 4.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test mode:             | <p>1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> |

4.2. Test Setup



4.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

Please Refer to Appendix for Details.

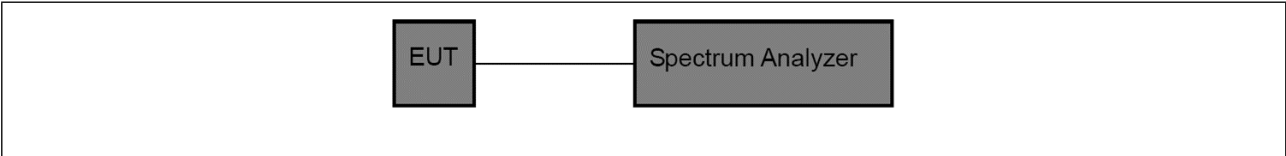
## 5. Maximum conducted output power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15.407(a)(1)(iv)<br>47 CFR Part 15.407(a)(3)(i)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Limit:       | <p>For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.<br/>If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.<br/>If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.<br/>However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.</p> |
| Test Method:      | ANSI C63.10-2020, section 12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Procedure:        | Refer to ANSI C63.10-2020 section 12.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### 5.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test mode:             | <p>1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> |

5.2. Test Setup



5.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

Please Refer to Appendix for Details.

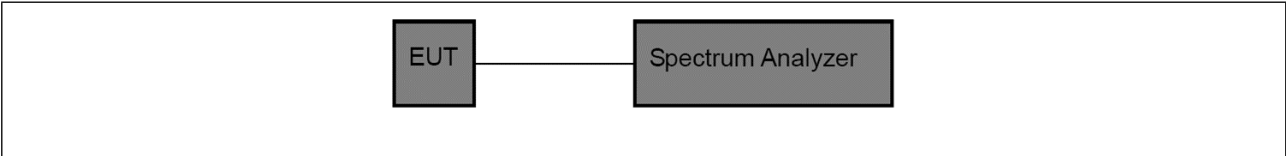
## 6. Power spectral density

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15.407(a)(1)(iv)<br>47 CFR Part 15.407(a)(3)(i)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Limit:       | <p>For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.<br/>If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>For the band 5.725-5.850 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.<br/>If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.<br/>Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.</p> |
| Test Method:      | ANSI C63.10-2020, section 12.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Procedure:        | Refer to ANSI C63.10-2020, section 12.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### 6.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test mode:             | <p>1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> |

6.2. Test Setup



6.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

Please Refer to Appendix for Details.

## 7. Band edge emissions (Radiated)

| Test Requirement:        | 47 CFR Part 15.407(b)(1)<br>47 CFR Part 15.407(b)(4)<br>47 CFR Part 15.407(b)(10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                  |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
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| Test Limit:              | <p>For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>For transmitters operating solely in the 5.725-5.850 GHz band:<br/>All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <table border="1"> <thead> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> </thead> <tbody> <tr> <td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr> <tr> <td><sup>1</sup> 0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr> <tr> <td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr> <tr> <td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr> <tr> <td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr> <tr> <td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr> <tr> <td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr> <tr> <td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr> <tr> <td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr> <tr> <td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr> <tr> <td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr> <tr> <td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr> <tr> <td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr> <tr> <td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr> <tr> <td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr> <tr> <td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(<sup>2</sup>)</td></tr> <tr> <td>13.36-13.41</td><td></td><td></td><td></td></tr> </tbody> </table> <p><sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.</p> <p><sup>2</sup> Above 38.6</p> <p>The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.</p> |               |                  | MHz | MHz | MHz | GHz | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | <sup>1</sup> 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 | 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 | 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 | 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 | 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 | 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 | 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | 12.57675-12.57725 | 322-335.4 | 3600-4400 | ( <sup>2</sup> ) | 13.36-13.41 |  |  |  |
| MHz                      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MHz           | GHz              |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 0.090-0.110              | 16.42-16.423                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 399.9-410     | 4.5-5.15         |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 608-614       | 5.35-5.46        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 2.1735-2.1905            | 16.80425-16.80475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 960-1240      | 7.25-7.75        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.125-4.128              | 25.5-25.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1300-1427     | 8.025-8.5        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.17725-4.17775          | 37.5-38.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1435-1626.5   | 9.0-9.2          |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.20725-4.20775          | 73-74.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1645.5-1646.5 | 9.3-9.5          |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.215-6.218              | 74.8-75.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1660-1710     | 10.6-12.7        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.26775-6.26825          | 108-121.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1718.8-1722.2 | 13.25-13.4       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.31175-6.31225          | 123-138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2200-2300     | 14.47-14.5       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.291-8.294              | 149.9-150.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2310-2390     | 15.35-16.2       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.362-8.366              | 156.52475-156.52525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2483.5-2500   | 17.7-21.4        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.37625-8.38675          | 156.7-156.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2690-2900     | 22.01-23.12      |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.41425-8.41475          | 162.0125-167.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3260-3267     | 23.6-24.0        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.29-12.293             | 167.72-173.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3332-3339     | 31.2-31.8        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.51975-12.52025        | 240-285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3345.8-3358   | 36.43-36.5       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.57675-12.57725        | 322-335.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3600-4400     | ( <sup>2</sup> ) |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 13.36-13.41              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                  |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |

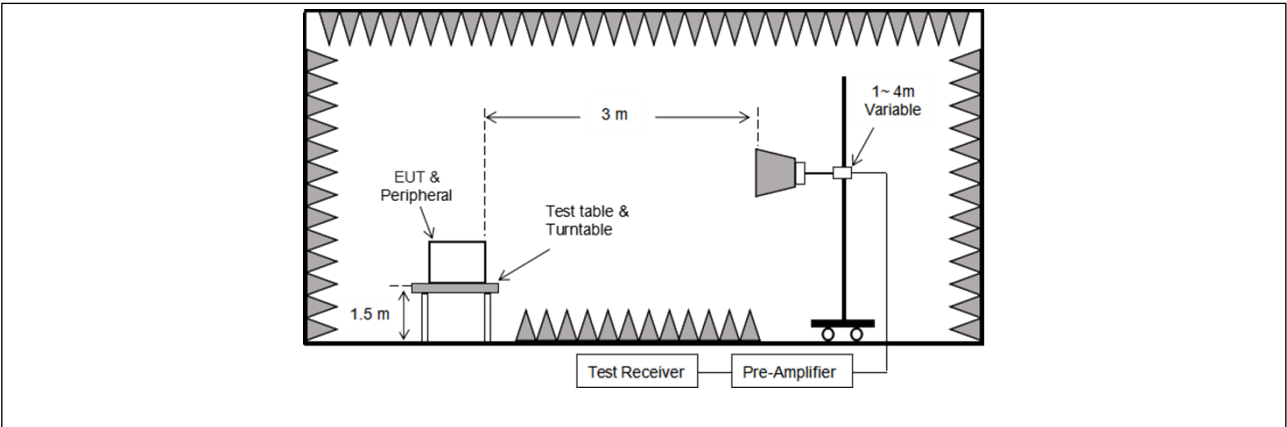
|                 | <p>Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p> <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> <p>** 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., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>                                                                                                                                                                                                                                                                       | Frequency (MHz)               | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Frequency (MHz) | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Measurement distance (meters) |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.009-0.490     | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 300                           |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.490-1.705     | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 1.705-30.0      | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 30-88           | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 88-216          | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 216-960         | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Above 960       | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Test Method:    | ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Procedure:      | <p>Above 1GHz:</p> <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst</p> |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)</p> <p>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> <p>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p> |
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7.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test mode:             | <p>1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> |

7.2. Test Setup



### 7.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| TM1 / Band: 5150-5250 MHz / BW: 20 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00                                | 37.21          | 15.99         | 53.20           | 68.20          | -15.00          | H            | Peak     |
| 5150.00                                | 39.32          | 15.99         | 55.31           | 68.20          | -12.89          | V            | Peak     |
| 5150.00                                | 27.08          | 15.99         | 43.07           | 54.00          | -10.93          | H            | AVG      |
| 5150.00                                | 29.20          | 15.99         | 45.19           | 54.00          | -8.81           | V            | AVG      |
| TM1 / Band: 5150-5250 MHz / BW: 20 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5250.00                                | 37.59          | 16.43         | 54.02           | 68.20          | -14.18          | H            | Peak     |
| 5250.00                                | 40.68          | 16.43         | 57.11           | 68.20          | -11.09          | V            | Peak     |
| 5250.00                                | 29.00          | 16.43         | 45.43           | 54.00          | -8.57           | H            | AVG      |
| 5250.00                                | 29.81          | 16.43         | 46.24           | 54.00          | -7.76           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM2 / Band: 5150-5250 MHz / BW: 20 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00                                | 36.07          | 15.99         | 52.06           | 68.20          | -16.14          | H            | Peak     |
| 5150.00                                | 37.52          | 15.99         | 53.51           | 68.20          | -14.69          | V            | Peak     |
| 5150.00                                | 26.79          | 15.99         | 42.78           | 54.00          | -11.22          | H            | AVG      |
| 5150.00                                | 27.76          | 15.99         | 43.75           | 54.00          | -10.25          | V            | AVG      |
| TM2 / Band: 5150-5250 MHz / BW: 20 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5250.00                                | 37.93          | 16.43         | 54.36           | 68.20          | -13.84          | H            | Peak     |
| 5250.00                                | 38.93          | 16.43         | 55.36           | 68.20          | -12.84          | V            | Peak     |
| 5250.00                                | 27.98          | 16.43         | 44.41           | 54.00          | -9.59           | H            | AVG      |
| 5250.00                                | 29.50          | 16.43         | 45.93           | 54.00          | -8.07           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM2 / Band: 5150-5250 MHz / BW: 40 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00                                | 36.72          | 15.99         | 52.71           | 68.20          | -15.49          | H            | Peak     |
| 5150.00                                | 38.55          | 15.99         | 54.54           | 68.20          | -13.66          | V            | Peak     |
| 5150.00                                | 27.31          | 15.99         | 43.30           | 54.00          | -10.70          | H            | AVG      |
| 5150.00                                | 28.85          | 15.99         | 44.84           | 54.00          | -9.16           | V            | AVG      |
| TM2 / Band: 5150-5250 MHz / BW: 40 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5250.00                                | 38.24          | 16.43         | 54.67           | 68.20          | -13.53          | H            | Peak     |
| 5250.00                                | 37.05          | 16.43         | 53.48           | 68.20          | -14.72          | V            | Peak     |
| 5250.00                                | 28.56          | 16.43         | 44.99           | 54.00          | -9.01           | H            | AVG      |
| 5250.00                                | 29.80          | 16.43         | 46.23           | 54.00          | -7.77           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM3 / Band: 5150-5250 MHz / BW: 20 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00                                | 37.20          | 15.99         | 53.19           | 68.20          | -15.01          | H            | Peak     |
| 5150.00                                | 38.99          | 15.99         | 54.98           | 68.20          | -13.22          | V            | Peak     |
| 5150.00                                | 26.70          | 15.99         | 42.69           | 54.00          | -11.31          | H            | AVG      |
| 5150.00                                | 28.98          | 15.99         | 44.97           | 54.00          | -9.03           | V            | AVG      |
| TM3 / Band: 5150-5250 MHz / BW: 20 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5250.00                                | 38.02          | 16.43         | 54.45           | 68.20          | -13.75          | H            | Peak     |
| 5250.00                                | 38.25          | 16.43         | 54.68           | 68.20          | -13.52          | V            | Peak     |
| 5250.00                                | 27.97          | 16.43         | 44.40           | 54.00          | -9.60           | H            | AVG      |
| 5250.00                                | 28.62          | 16.43         | 45.05           | 54.00          | -8.95           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM3 / Band: 5150-5250 MHz / BW: 40 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00                                | 36.13          | 15.99         | 52.12           | 68.20          | -16.08          | H            | Peak     |
| 5150.00                                | 36.49          | 15.99         | 52.48           | 68.20          | -15.72          | V            | Peak     |
| 5150.00                                | 26.42          | 15.99         | 42.41           | 54.00          | -11.59          | H            | AVG      |
| 5150.00                                | 27.05          | 15.99         | 43.04           | 54.00          | -10.96          | V            | AVG      |
| TM3 / Band: 5150-5250 MHz / BW: 40 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5250.00                                | 38.23          | 16.43         | 54.66           | 68.20          | -13.54          | H            | Peak     |
| 5250.00                                | 37.32          | 16.43         | 53.75           | 68.20          | -14.45          | V            | Peak     |
| 5250.00                                | 27.63          | 16.43         | 44.06           | 54.00          | -9.94           | H            | AVG      |
| 5250.00                                | 27.79          | 16.43         | 44.22           | 54.00          | -9.78           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM3 / Band: 5150-5250 MHz / BW: 80 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5150.00                                | 36.16          | 15.99         | 52.15           | 68.20          | -16.05          | H            | Peak     |
| 5150.00                                | 36.73          | 15.99         | 52.72           | 68.20          | -15.48          | V            | Peak     |
| 5150.00                                | 26.89          | 15.99         | 42.88           | 54.00          | -11.12          | H            | AVG      |
| 5150.00                                | 27.06          | 15.99         | 43.05           | 54.00          | -10.95          | V            | AVG      |
| TM3 / Band: 5150-5250 MHz / BW: 80 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5250.00                                | 38.59          | 16.43         | 55.02           | 68.20          | -13.18          | H            | Peak     |
| 5250.00                                | 37.68          | 16.43         | 54.11           | 68.20          | -14.09          | V            | Peak     |
| 5250.00                                | 29.15          | 16.43         | 45.58           | 54.00          | -8.42           | H            | AVG      |
| 5250.00                                | 28.33          | 16.43         | 44.76           | 54.00          | -9.24           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM1 / Band: 5725-5850 MHz / BW: 20 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5725.00                                | 38.48          | 17.05         | 55.53           | 68.20          | -12.67          | H            | Peak     |
| 5725.00                                | 39.97          | 17.05         | 57.02           | 68.20          | -11.18          | V            | Peak     |
| 5725.00                                | 29.25          | 17.05         | 46.30           | 54.00          | -7.70           | H            | AVG      |
| 5725.00                                | 30.39          | 17.05         | 47.44           | 54.00          | -6.56           | V            | AVG      |
| TM1 / Band: 5725-5850 MHz / BW: 20 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00                                | 39.48          | 17.21         | 56.69           | 68.20          | -11.51          | H            | Peak     |
| 5850.00                                | 39.90          | 17.21         | 57.11           | 68.20          | -11.09          | V            | Peak     |
| 5850.00                                | 29.41          | 17.21         | 46.62           | 54.00          | -7.38           | H            | AVG      |
| 5850.00                                | 29.36          | 17.21         | 46.57           | 54.00          | -7.43           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM2 / Band: 5725-5850 MHz / BW: 20 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5725.00                                | 38.48          | 17.05         | 55.53           | 68.20          | -12.67          | H            | Peak     |
| 5725.00                                | 39.14          | 17.05         | 56.19           | 68.20          | -12.01          | V            | Peak     |
| 5725.00                                | 27.76          | 17.05         | 44.81           | 54.00          | -9.19           | H            | AVG      |
| 5725.00                                | 28.37          | 17.05         | 45.42           | 54.00          | -8.58           | V            | AVG      |
| TM2 / Band: 5725-5850 MHz / BW: 20 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00                                | 37.72          | 17.21         | 54.93           | 68.20          | -13.27          | H            | Peak     |
| 5850.00                                | 38.24          | 17.21         | 55.45           | 68.20          | -12.75          | V            | Peak     |
| 5850.00                                | 28.07          | 17.21         | 45.28           | 54.00          | -8.72           | H            | AVG      |
| 5850.00                                | 28.79          | 17.21         | 46.00           | 54.00          | -8.00           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM2 / Band: 5725-5850 MHz / BW: 40 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5725.00                                | 38.06          | 17.05         | 55.11           | 68.20          | -13.09          | H            | Peak     |
| 5725.00                                | 39.02          | 17.05         | 56.07           | 68.20          | -12.13          | V            | Peak     |
| 5725.00                                | 27.29          | 17.05         | 44.34           | 54.00          | -9.66           | H            | AVG      |
| 5725.00                                | 28.56          | 17.05         | 45.61           | 54.00          | -8.39           | V            | AVG      |
| TM2 / Band: 5725-5850 MHz / BW: 40 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00                                | 38.42          | 17.21         | 55.63           | 68.20          | -12.57          | H            | Peak     |
| 5850.00                                | 38.71          | 17.21         | 55.92           | 68.20          | -12.28          | V            | Peak     |
| 5850.00                                | 28.62          | 17.21         | 45.83           | 54.00          | -8.17           | H            | AVG      |
| 5850.00                                | 29.62          | 17.21         | 46.83           | 54.00          | -7.17           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM3 / Band: 5725-5850 MHz / BW: 20 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5725.00                                | 37.64          | 17.05         | 54.69           | 68.20          | -13.51          | H            | Peak     |
| 5725.00                                | 37.66          | 17.05         | 54.71           | 68.20          | -13.49          | V            | Peak     |
| 5725.00                                | 28.48          | 17.05         | 45.53           | 54.00          | -8.47           | H            | AVG      |
| 5725.00                                | 29.43          | 17.05         | 46.48           | 54.00          | -7.52           | V            | AVG      |
| TM3 / Band: 5725-5850 MHz / BW: 20 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00                                | 38.38          | 17.21         | 55.59           | 68.20          | -12.61          | H            | Peak     |
| 5850.00                                | 39.21          | 17.21         | 56.42           | 68.20          | -11.78          | V            | Peak     |
| 5850.00                                | 28.20          | 17.21         | 45.41           | 54.00          | -8.59           | H            | AVG      |
| 5850.00                                | 29.39          | 17.21         | 46.60           | 54.00          | -7.40           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM3 / Band: 5725-5850 MHz / BW: 40 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5725.00                                | 36.56          | 17.05         | 53.61           | 68.20          | -14.59          | H            | Peak     |
| 5725.00                                | 38.00          | 17.05         | 55.05           | 68.20          | -13.15          | V            | Peak     |
| 5725.00                                | 27.76          | 17.05         | 44.81           | 54.00          | -9.19           | H            | AVG      |
| 5725.00                                | 28.42          | 17.05         | 45.47           | 54.00          | -8.53           | V            | AVG      |
| TM3 / Band: 5725-5850 MHz / BW: 40 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00                                | 37.88          | 17.21         | 55.09           | 68.20          | -13.11          | H            | Peak     |
| 5850.00                                | 38.83          | 17.21         | 56.04           | 68.20          | -12.16          | V            | Peak     |
| 5850.00                                | 27.91          | 17.21         | 45.12           | 54.00          | -8.88           | H            | AVG      |
| 5850.00                                | 27.62          | 17.21         | 44.83           | 54.00          | -9.17           | V            | AVG      |

Remark: 1. Result=Reading + Factor

| TM3 / Band: 5725-5850 MHz / BW: 80 / L |                |               |                 |                |                 |              |          |
|----------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5725.00                                | 35.81          | 17.05         | 52.86           | 68.20          | -15.34          | H            | Peak     |
| 5725.00                                | 37.43          | 17.05         | 54.48           | 68.20          | -13.72          | V            | Peak     |
| 5725.00                                | 26.97          | 17.05         | 44.02           | 54.00          | -9.98           | H            | AVG      |
| 5725.00                                | 27.40          | 17.05         | 44.45           | 54.00          | -9.55           | V            | AVG      |
| TM3 / Band: 5725-5850 MHz / BW: 80 / H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                        | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 5850.00                                | 38.06          | 17.21         | 55.27           | 68.20          | -12.93          | H            | Peak     |
| 5850.00                                | 38.25          | 17.21         | 55.46           | 68.20          | -12.74          | V            | Peak     |
| 5850.00                                | 28.59          | 17.21         | 45.80           | 54.00          | -8.20           | H            | AVG      |
| 5850.00                                | 28.60          | 17.21         | 45.81           | 54.00          | -8.19           | V            | AVG      |

Remark: 1. Result=Reading + Factor

## 8. Undesirable emission limits (below 1GHz)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 47 CFR Part 15.407(b)(9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                               |
| Test Limit:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 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 (microvolts/meter) | Measurement distance (meters) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.009-0.490                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2400/F(kHz)                       | 300                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.490-1.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24000/F(kHz)                      | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.705-30.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 30                                | 30                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 88-216                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 150 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 216-960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200 **                            | 3                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Above 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 500                               | 3                             |
| <p>** 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., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                   |                               |
| Test Method:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ANSI C63.10-2020, section 12.7.4, 12.7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |                               |
| Procedure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>Below 1GHz:</p> <p>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin</p> |                                   |                               |

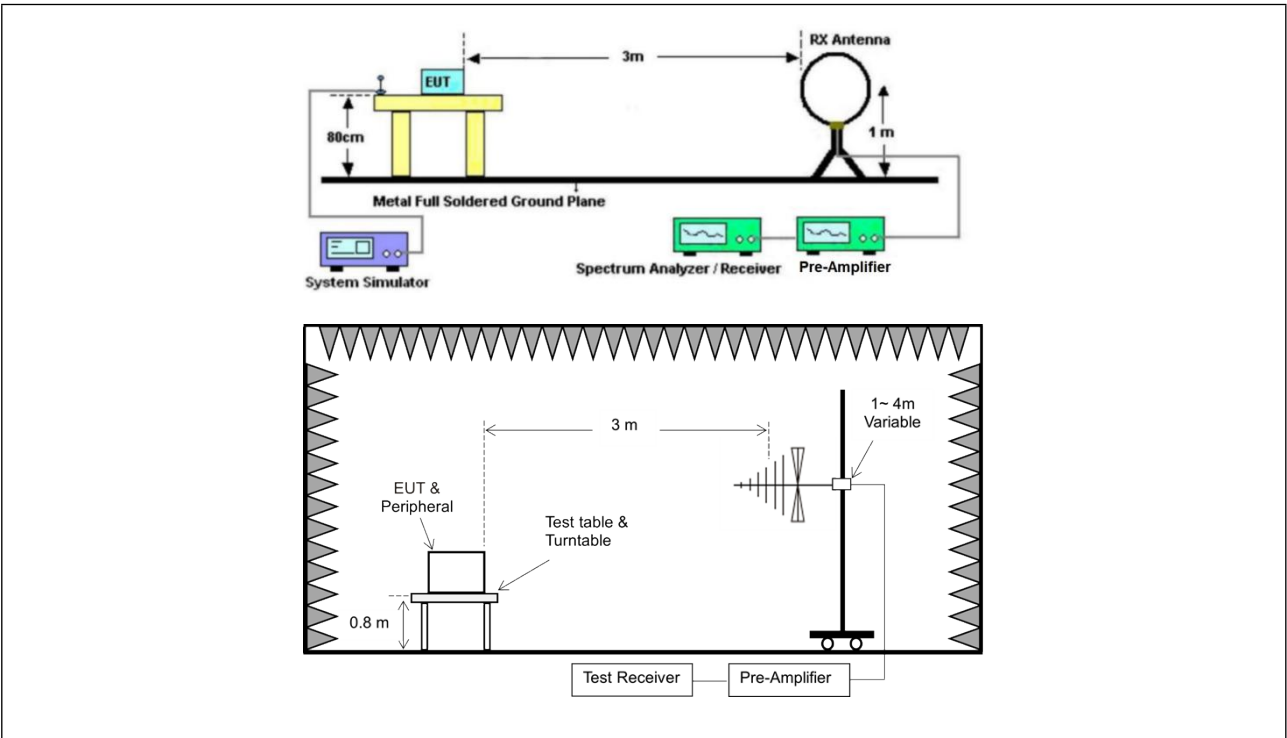
|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> <p>2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> <p>3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p> <p>Above 1GHz:</p> <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> <p>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB</p> |
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|  | <p>below the limit need not be reported.</p> <p>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p> |
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8.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test mode:             | <p>1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> |

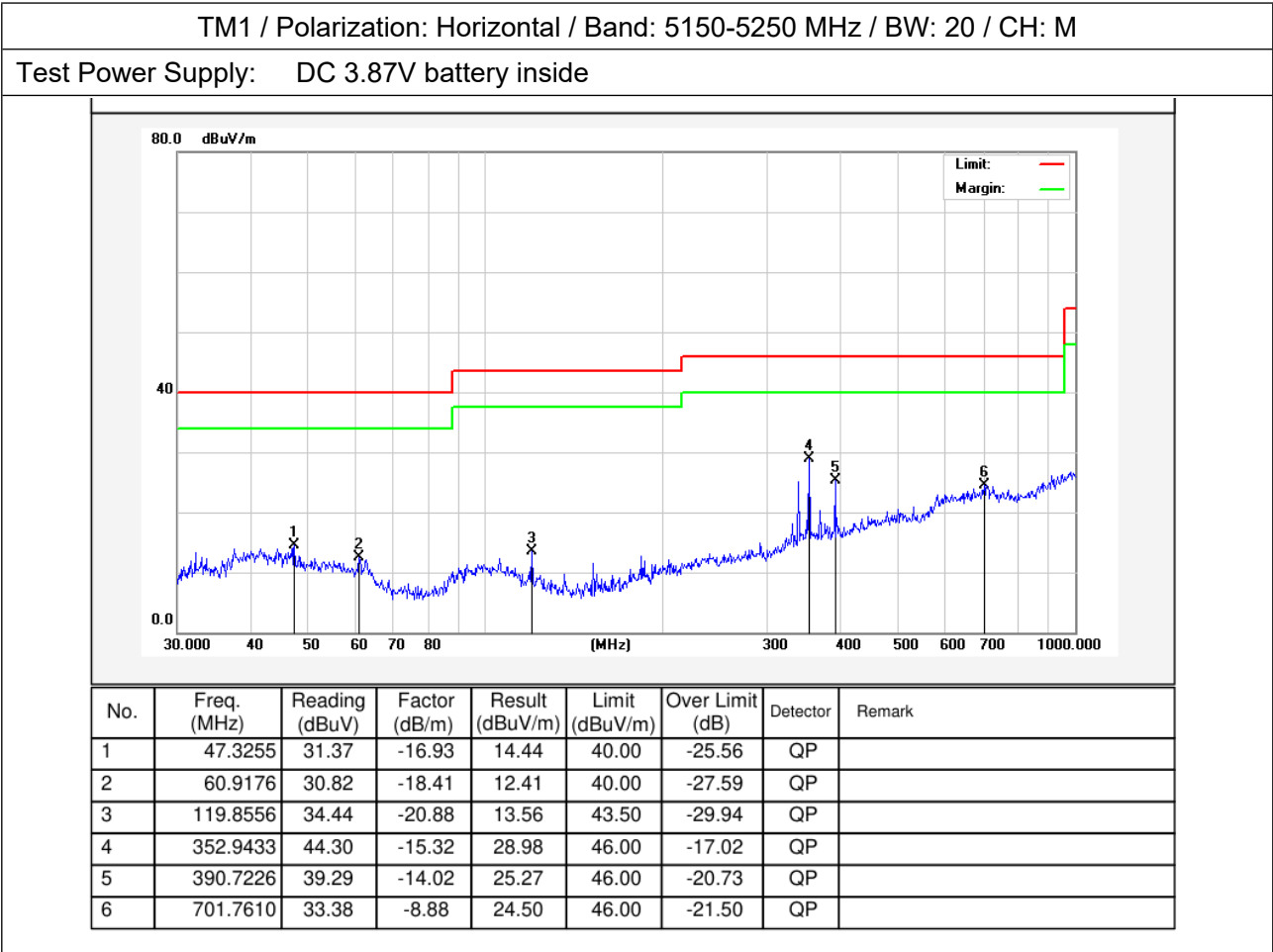
8.2. Test Setup



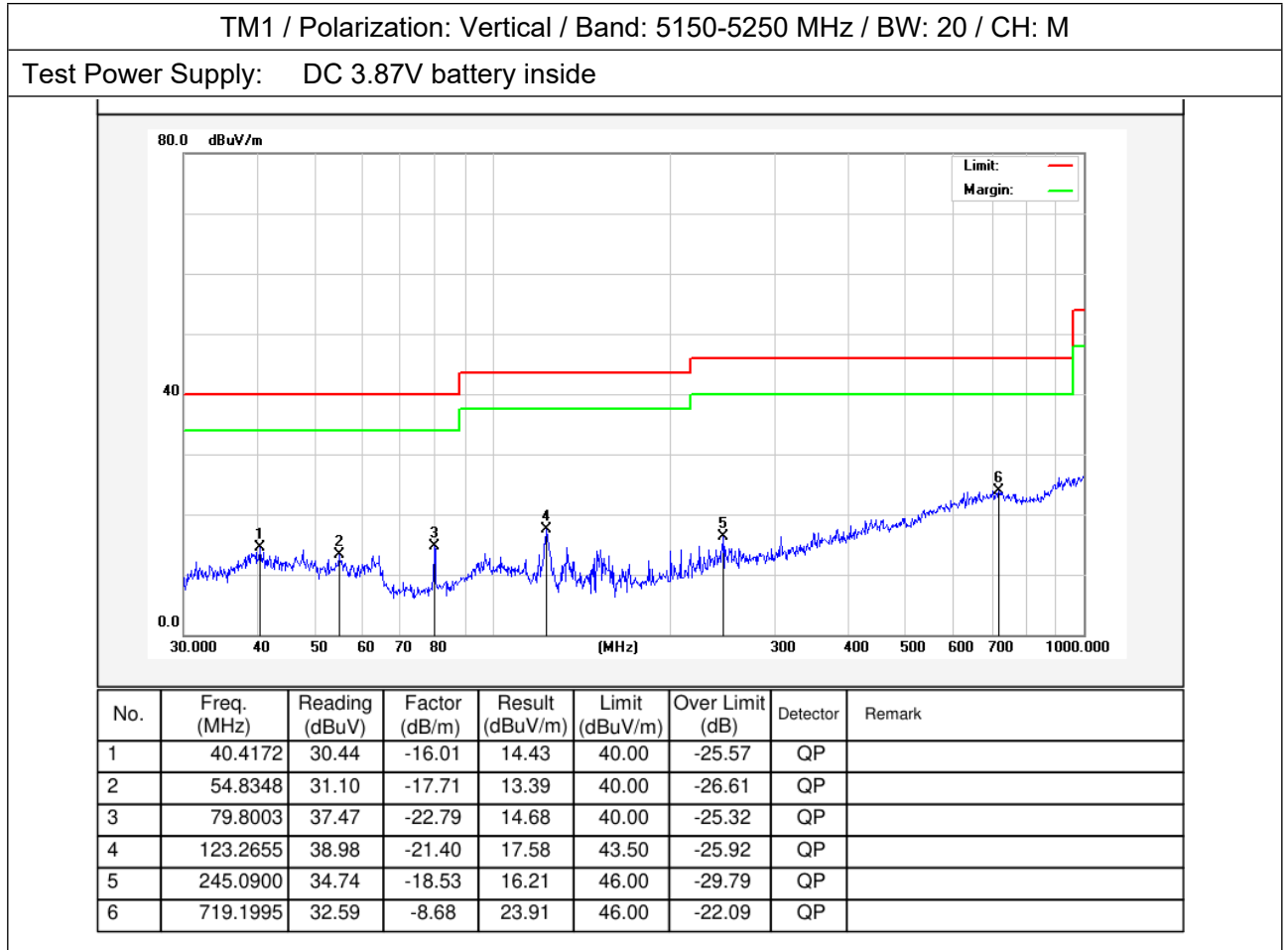
8.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.9 °C | Humidity: | 52 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 23.9 °C | Humidity: | 52 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|



Note:

- Only record the worst data in the report.
- Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);  
Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)

## 9. Undesirable emission limits (above 1GHz)

| Test Requirement:        | 47 CFR Part 15.407(b)(1)<br>47 CFR Part 15.407(b)(4)<br>47 CFR Part 15.407(b)(10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                  |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
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| Test Limit:              | <p>For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.</p> <p>For transmitters operating solely in the 5.725-5.850 GHz band:<br/>All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <table border="1"> <thead> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> </thead> <tbody> <tr> <td>0.090-0.110</td><td>16.42-16.423</td><td>399.9-410</td><td>4.5-5.15</td></tr> <tr> <td><sup>1</sup> 0.495-0.505</td><td>16.69475-16.69525</td><td>608-614</td><td>5.35-5.46</td></tr> <tr> <td>2.1735-2.1905</td><td>16.80425-16.80475</td><td>960-1240</td><td>7.25-7.75</td></tr> <tr> <td>4.125-4.128</td><td>25.5-25.67</td><td>1300-1427</td><td>8.025-8.5</td></tr> <tr> <td>4.17725-4.17775</td><td>37.5-38.25</td><td>1435-1626.5</td><td>9.0-9.2</td></tr> <tr> <td>4.20725-4.20775</td><td>73-74.6</td><td>1645.5-1646.5</td><td>9.3-9.5</td></tr> <tr> <td>6.215-6.218</td><td>74.8-75.2</td><td>1660-1710</td><td>10.6-12.7</td></tr> <tr> <td>6.26775-6.26825</td><td>108-121.94</td><td>1718.8-1722.2</td><td>13.25-13.4</td></tr> <tr> <td>6.31175-6.31225</td><td>123-138</td><td>2200-2300</td><td>14.47-14.5</td></tr> <tr> <td>8.291-8.294</td><td>149.9-150.05</td><td>2310-2390</td><td>15.35-16.2</td></tr> <tr> <td>8.362-8.366</td><td>156.52475-156.52525</td><td>2483.5-2500</td><td>17.7-21.4</td></tr> <tr> <td>8.37625-8.38675</td><td>156.7-156.9</td><td>2690-2900</td><td>22.01-23.12</td></tr> <tr> <td>8.41425-8.41475</td><td>162.0125-167.17</td><td>3260-3267</td><td>23.6-24.0</td></tr> <tr> <td>12.29-12.293</td><td>167.72-173.2</td><td>3332-3339</td><td>31.2-31.8</td></tr> <tr> <td>12.51975-12.52025</td><td>240-285</td><td>3345.8-3358</td><td>36.43-36.5</td></tr> <tr> <td>12.57675-12.57725</td><td>322-335.4</td><td>3600-4400</td><td>(<sup>2</sup>)</td></tr> <tr> <td>13.36-13.41</td><td></td><td></td><td></td></tr> </tbody> </table> <p><sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.</p> <p><sup>2</sup> Above 38.6</p> <p>The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements.</p> |               |                  | MHz | MHz | MHz | GHz | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | <sup>1</sup> 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 | 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 | 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 | 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 | 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 | 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 | 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | 12.57675-12.57725 | 322-335.4 | 3600-4400 | ( <sup>2</sup> ) | 13.36-13.41 |  |  |  |
| MHz                      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | MHz           | GHz              |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 0.090-0.110              | 16.42-16.423                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 399.9-410     | 4.5-5.15         |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 608-614       | 5.35-5.46        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 2.1735-2.1905            | 16.80425-16.80475                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 960-1240      | 7.25-7.75        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.125-4.128              | 25.5-25.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1300-1427     | 8.025-8.5        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.17725-4.17775          | 37.5-38.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1435-1626.5   | 9.0-9.2          |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 4.20725-4.20775          | 73-74.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1645.5-1646.5 | 9.3-9.5          |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.215-6.218              | 74.8-75.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1660-1710     | 10.6-12.7        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.26775-6.26825          | 108-121.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1718.8-1722.2 | 13.25-13.4       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 6.31175-6.31225          | 123-138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2200-2300     | 14.47-14.5       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.291-8.294              | 149.9-150.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2310-2390     | 15.35-16.2       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.362-8.366              | 156.52475-156.52525                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2483.5-2500   | 17.7-21.4        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.37625-8.38675          | 156.7-156.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2690-2900     | 22.01-23.12      |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 8.41425-8.41475          | 162.0125-167.17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3260-3267     | 23.6-24.0        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.29-12.293             | 167.72-173.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3332-3339     | 31.2-31.8        |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.51975-12.52025        | 240-285                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3345.8-3358   | 36.43-36.5       |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 12.57675-12.57725        | 322-335.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3600-4400     | ( <sup>2</sup> ) |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |
| 13.36-13.41              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |                  |     |     |     |     |             |              |           |          |                          |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |                  |             |  |  |  |

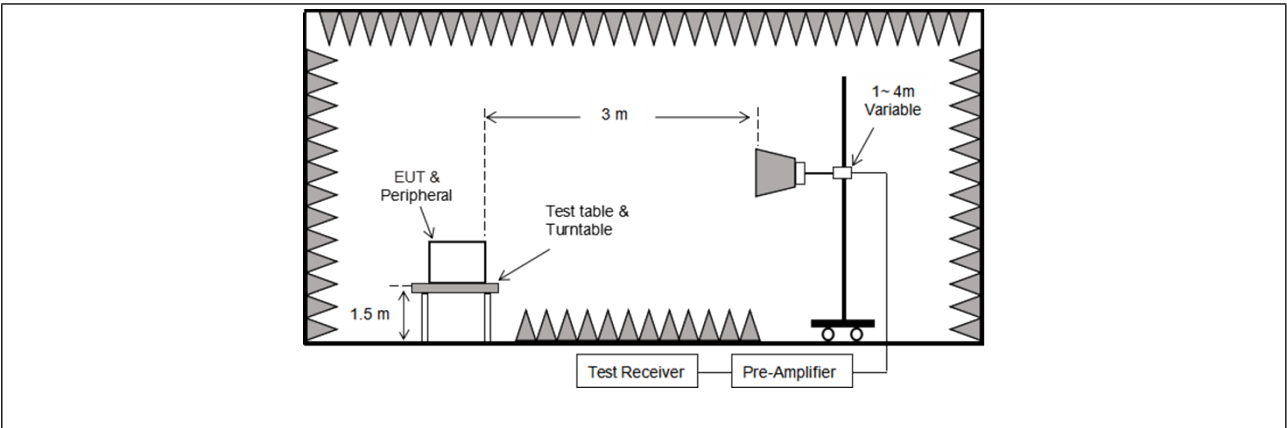
|                 | <p>Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:</p> <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> <p>** 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., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p>                                                                                                                                                                                                                                                                             | Frequency (MHz)               | Field strength (microvolts/meter) | Measurement distance (meters) | 0.009-0.490 | 2400/F(kHz) | 300 | 0.490-1.705 | 24000/F(kHz) | 30 | 1.705-30.0 | 30 | 30 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Frequency (MHz) | Field strength (microvolts/meter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Measurement distance (meters) |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.009-0.490     | 2400/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 300                           |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 0.490-1.705     | 24000/F(kHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 1.705-30.0      | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30                            |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 30-88           | 100 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 88-216          | 150 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| 216-960         | 200 **                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Above 960       | 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3                             |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Test Method:    | ANSI C63.10-2020, section 12.7.4, 12.7.6, 12.7.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |
| Procedure:      | <p>Above 1GHz:</p> <p>a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</p> |                               |                                   |                               |             |             |     |             |              |    |            |    |    |       |        |   |        |        |   |         |        |   |           |     |   |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>Remark:</p> <p>1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor</p> <p>2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.</p> <p>3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.</p> <p>4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.</p> |
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9.1. EUT Operation

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Environment: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test mode:             | <p>1: 802.11a mode: Keep the EUT in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.</p> <p>2: 802.11n mode: Keep the EUT in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> <p>3: 802.11ac mode: Keep the EUT in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.</p> |

9.2. Test Setup



### 9.3. Test Data

|              |         |           |      |                       |         |
|--------------|---------|-----------|------|-----------------------|---------|
| Temperature: | 25.3 °C | Humidity: | 51 % | Atmospheric Pressure: | 101 kPa |
|--------------|---------|-----------|------|-----------------------|---------|

| TM1 / Band: 5150-5250 MHz / BW: 20 / CH: L |                |               |                 |                |                 |              |          |
|--------------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                            | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 10360.00                                   | 31.30          | 23.81         | 55.11           | 68.20          | -13.09          | V            | Peak     |
| 15540.00                                   | 32.49          | 28.68         | 61.17           | 68.20          | -7.03           | V            | Peak     |
| 10360.00                                   | 31.48          | 23.81         | 55.29           | 68.20          | -12.91          | H            | Peak     |
| 15540.00                                   | 32.65          | 28.68         | 61.33           | 68.20          | -6.87           | H            | Peak     |
| 10360.00                                   | 20.543         | 23.81         | 44.35           | 54.00          | -9.65           | V            | AVG      |
| 15540.00                                   | 21.486         | 28.68         | 50.17           | 54.00          | -3.83           | V            | AVG      |
| 10360.00                                   | 20.670         | 23.81         | 44.48           | 54.00          | -9.52           | H            | AVG      |
| 15540.00                                   | 21.401         | 28.68         | 50.08           | 54.00          | -3.92           | H            | AVG      |
| TM1 / Band: 5150-5250 MHz / BW: 20 / CH: M |                |               |                 |                |                 |              |          |
| Frequency (MHz)                            | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 10440.00                                   | 30.66          | 23.81         | 54.47           | 68.20          | -13.73          | V            | Peak     |
| 15660.00                                   | 32.02          | 29.13         | 61.15           | 68.20          | -7.05           | V            | Peak     |
| 10440.00                                   | 30.97          | 23.81         | 54.78           | 68.20          | -13.42          | H            | Peak     |
| 15660.00                                   | 32.17          | 29.13         | 61.30           | 68.20          | -6.90           | H            | Peak     |
| 10440.00                                   | 20.813         | 23.81         | 44.62           | 54.00          | -9.38           | V            | AVG      |
| 15660.00                                   | 21.606         | 29.13         | 50.74           | 54.00          | -3.26           | V            | AVG      |
| 10440.00                                   | 20.660         | 23.81         | 44.47           | 54.00          | -9.53           | H            | AVG      |
| 15660.00                                   | 21.481         | 29.13         | 50.61           | 54.00          | -3.39           | H            | AVG      |
| TM1 / Band: 5150-5250 MHz / BW: 20 / CH: H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                            | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 10480.00                                   | 30.23          | 23.80         | 54.03           | 68.20          | -14.17          | V            | Peak     |
| 15720.00                                   | 31.50          | 30.03         | 61.53           | 68.20          | -6.67           | V            | Peak     |
| 10480.00                                   | 30.61          | 23.80         | 54.41           | 68.20          | -13.79          | H            | Peak     |
| 15720.00                                   | 31.08          | 30.03         | 61.11           | 68.20          | -7.09           | H            | Peak     |
| 10480.00                                   | 19.48          | 23.80         | 43.28           | 54.00          | -10.72          | V            | AVG      |
| 15720.00                                   | 20.37          | 30.03         | 50.40           | 54.00          | -3.60           | V            | AVG      |
| 10480.00                                   | 19.87          | 23.80         | 43.67           | 54.00          | -10.33          | H            | AVG      |
| 15720.00                                   | 20.27          | 30.03         | 50.30           | 54.00          | -3.70           | H            | AVG      |

Remark:

1. Result = Reading + Factor
2. Only the worst case (802.11a) is recorded in the report.
3. Test frequency are from 1GHz to 40GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

| TM3 / Band: 5725-5850 MHz / BW: 40 / CH: L |                |               |                 |                |                 |              |          |
|--------------------------------------------|----------------|---------------|-----------------|----------------|-----------------|--------------|----------|
| Frequency (MHz)                            | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 11510.00                                   | 28.42          | 23.36         | 51.78           | 68.20          | -16.42          | V            | Peak     |
| 17265.00                                   | 28.83          | 32.02         | 60.85           | 68.20          | -7.35           | V            | Peak     |
| 11510.00                                   | 29.05          | 23.36         | 52.41           | 68.20          | -15.79          | H            | Peak     |
| 17265.00                                   | 29.15          | 32.02         | 61.17           | 68.20          | -7.03           | H            | Peak     |
| 11510.00                                   | 18.06          | 23.36         | 41.42           | 54.00          | -12.58          | V            | AVG      |
| 17265.00                                   | 18.38          | 32.02         | 50.40           | 54.00          | -3.60           | V            | AVG      |
| 11510.00                                   | 18.27          | 23.36         | 41.63           | 54.00          | -12.37          | H            | AVG      |
| 17265.00                                   | 18.68          | 32.02         | 50.70           | 54.00          | -3.30           | H            | AVG      |
| TM3 / Band: 5725-5850 MHz / BW: 40 / CH: H |                |               |                 |                |                 |              |          |
| Frequency (MHz)                            | Reading (dBuV) | Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Over limit (dB) | Antenna Pol. | Detector |
| 11590.00                                   | 27.61          | 23.43         | 51.04           | 68.20          | -17.16          | V            | Peak     |
| 17385.00                                   | 28.82          | 32.23         | 61.05           | 68.20          | -7.15           | V            | Peak     |
| 11590.00                                   | 28.34          | 23.43         | 51.77           | 68.20          | -16.43          | H            | Peak     |
| 17385.00                                   | 28.50          | 32.23         | 60.73           | 68.20          | -7.47           | H            | Peak     |
| 11590.00                                   | 17.16          | 23.43         | 40.59           | 54.00          | -13.41          | V            | AVG      |
| 17385.00                                   | 17.43          | 32.23         | 49.66           | 54.00          | -4.34           | V            | AVG      |
| 11590.00                                   | 18.34          | 23.43         | 41.77           | 54.00          | -12.23          | H            | AVG      |
| 17385.00                                   | 18.42          | 32.23         | 50.65           | 54.00          | -3.35           | H            | AVG      |

**Remark:**

1. Result =Reading + Factor
2. Only the worst case (802.11ac(VHT40)) is recorded in the report.
3. Test frequency are from 1GHz to 40GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.

## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Please refer to separated files Appendix I -- Test Setup Photograph\_RF

## **APPENDIX II -- EXTERNAL PHOTOGRAPH**

Please refer to separated files Appendix II -- External Photograph

## **APPENDIX III -- INTERNAL PHOTOGRAPH**

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----