

# TEST REPORT

**Report No.:** 8228EU011509W2

**Applicant:** Hena Digital Technology (Shenzhen) Co., Ltd.

**Address:** 13F, Block B, Tairan Building, Futian District, Shenzhen, China

**Product Name:** Tablet PC

**Model No.:** EID-1400 (refer to clause 2.4)

**Trademark:** NAXA, HENA, EMERSON, SOUNDPRO, VICTOR

**FCC ID:** M7C-EID1400

**Test Standard(s):** 47 CFR Part 15 Subpart C

**Date of Receipt:** Apr. 15, 2024

**Test Date:** Apr. 15, 2024 – Apr. 30, 2024

**Date of Issue:** May 27, 2024

**ISSUED BY:**

SHENZHEN EU TESTING LABORATORY LIMITED



**Prepared by:**



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**Reviewed and Approved by:**



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### Revision Record

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## 2 General Information

### 2.1 Applicant Information

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| Applicant | Hena Digital Technology (Shenzhen) Co., Ltd.                    |
| Address   | 13F, Block B, Tairan Building, Futian District, Shenzhen, China |

### 2.2 Manufacturer Information

|              |                                                                 |
|--------------|-----------------------------------------------------------------|
| Manufacturer | Hena Digital Technology (Shenzhen) Co., Ltd.                    |
| Address      | 13F, Block B, Tairan Building, Futian District, Shenzhen, China |

### 2.3 Factory Information

|         |                                                                 |
|---------|-----------------------------------------------------------------|
| Factory | Hena Digital Technology (Shenzhen) Co., Ltd.                    |
| Address | 13F, Block B, Tairan Building, Futian District, Shenzhen, China |

### 2.4 General Description of E.U.T.

|                                      |                                                                                                                                                                                      |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                         | Tablet PC                                                                                                                                                                            |
| Model No. Under Test                 | EID-1400                                                                                                                                                                             |
| List Model No.                       | M17QF18M, NID-1400, VID-1400, SID-1400, NID-1400-XX, EID-1400-XX, VID-1400-XX, SID-1400-XX (XX stand A-Z,a-z,0-9 or blank, stand for different client's number and appearance color) |
| Description of Model differentiation | All models are same with electrical parameters and internal circuit structure, but only differ in appearance color and model name.<br>(this information provided by the customer)    |
| Rating(s)                            | Input: 5.0V $\overline{\text{---}}$ 2.0A (Adapter Input: 100-240V~, 50/60Hz, 0.3A;<br>Output: 5.0V $\overline{\text{---}}$ 2.0A)<br>Battery Capacity: 3.8VDC, 8000mAh, 30.4Wh        |
| Adapter                              | Model No.: BSY01J3050200UU<br>Input: 100-240V~, 50/60Hz, 0.3A<br>Output: 5.0V $\overline{\text{---}}$ 2.0A<br>Manufacturer: SHENZHEN BSY TECHNOLOGY CO., LTD                         |
| Product Type                         | <input type="checkbox"/> Mobile<br><input checked="" type="checkbox"/> Portable<br><input type="checkbox"/> Fix Location                                                             |
| Test Sample No.                      | -1/1(Normal Sample)                                                                                                                                                                  |
| Hardware Version                     | ZDT30-K-MB                                                                                                                                                                           |
| Software Version                     | Android 14                                                                                                                                                                           |
| Remark                               | For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.                                                                    |

## 2.5 Technical Information of E.U.T.

|                                   |                                                                                                                                                    |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Network and Wireless Connectivity | Bluetooth (BDR+EDR+BLE)<br>WiFi 2.4G: 802.11b, 802.11g, 802.11n(HT20/40)<br>WiFi 5G: 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)<br>U-NII-1/3 |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|

The requirement for the following technical information of the EUT was tested in this report:

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| Technology            | <b>Bluetooth</b>                                                                                             |
| Operation Mode        | <input checked="" type="checkbox"/> BDR <input checked="" type="checkbox"/> EDR <input type="checkbox"/> BLE |
| Modulation Technology | FHSS                                                                                                         |
| Modulation Type       | GFSK, $\pi/4$ -DQPSK, 8DPSK                                                                                  |
| Operating Frequency   | 2402-2480MHz                                                                                                 |
| Transfer Rate         | DH5: 1 Mbps<br>2DH5: 2 Mbps<br>3DH5: 3 Mbps                                                                  |
| Number of Channel     | 79                                                                                                           |
| Antenna Type          | FPC Antenna                                                                                                  |
| Antenna Gain(Peak)    | 2.07 dBi                                                                                                     |

All channel is listed on the following table:

| Channel Number | Freq. (MHz) | Channel Number | Freq. (MHz) | Channel Number | Freq. (MHz) | Channel Number | Freq. (MHz) |
|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| 0              | 2402        | 21             | 2423        | 42             | 2444        | 63             | 2465        |
| 1              | 2403        | 22             | 2424        | 43             | 2445        | 64             | 2466        |
| 2              | 2404        | 23             | 2425        | 44             | 2446        | 65             | 2467        |
| 3              | 2405        | 24             | 2426        | 45             | 2447        | 66             | 2468        |
| 4              | 2406        | 25             | 2427        | 46             | 2448        | 67             | 2469        |
| 5              | 2407        | 26             | 2428        | 47             | 2449        | 68             | 2470        |
| 6              | 2408        | 27             | 2429        | 48             | 2450        | 69             | 2471        |
| 7              | 2409        | 28             | 2430        | 49             | 2451        | 70             | 2472        |
| 8              | 2410        | 29             | 2431        | 50             | 2452        | 71             | 2473        |
| 9              | 2411        | 30             | 2432        | 51             | 2453        | 72             | 2474        |
| 10             | 2412        | 31             | 2433        | 52             | 2454        | 73             | 2475        |
| 11             | 2413        | 32             | 2434        | 53             | 2455        | 74             | 2476        |
| 12             | 2414        | 33             | 2435        | 54             | 2456        | 75             | 2477        |
| 13             | 2415        | 34             | 2436        | 55             | 2457        | 76             | 2478        |
| 14             | 2416        | 35             | 2437        | 56             | 2458        | 77             | 2479        |
| 15             | 2417        | 36             | 2438        | 57             | 2459        | 78             | 2480        |
| 16             | 2418        | 37             | 2439        | 58             | 2460        | -              | -           |
| 17             | 2419        | 38             | 2440        | 59             | 2461        | -              | -           |
| 18             | 2420        | 39             | 2441        | 60             | 2462        | -              | -           |
| 19             | 2421        | 40             | 2442        | 61             | 2463        | -              | -           |
| 20             | 2422        | 41             | 2443        | 62             | 2464        | -              | -           |

### 3 Test Summary

#### 3.1 Test Standard

The tests were performed according to following standards:

| No. | Identity                                   | Document Title                                                                                                                                                                           |
|-----|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | 47 CFR Part 15, Subpart C                  | Intentional radiators of radio frequency equipment                                                                                                                                       |
| 2   | ANSI C63.10-2020                           | American National Standard for Testing Unlicensed Wireless Devices                                                                                                                       |
| 3   | KDB 558074 D01 15.247 Meas Guidance v05r02 | Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules |

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

#### 3.2 Test Verdict

| No. | Description                                            | FCC Part No.        | Channel                       | Verdict | Remark |
|-----|--------------------------------------------------------|---------------------|-------------------------------|---------|--------|
| 1   | Antenna Requirement                                    | 15.203              | N/A                           | Pass    | --     |
| 2   | Conducted Emission at AC Power Line                    | 15.207              | Low/Middle/High               | Pass    | --     |
| 3   | 20dB Bandwidth                                         | 15.215(c)           | Low/Middle/High               | Pass    | --     |
| 4   | Maximum Conducted Output Power                         | 15.247(b)(1)        | Low/Middle/High               | Pass    | --     |
| 5   | Carrier Frequency Separation                           | 15.247(a)(1)        | Hopping Mode                  | Pass    | --     |
| 6   | Number of Hopping Frequencies                          | 15.247(a)(1)(iii)   | Hopping Mode                  | Pass    | --     |
| 7   | Time of Occupancy (Dwell time)                         | 15.247(a)(1)(iii)   | Hopping Mode                  | Pass    | --     |
| 8   | Emission in non-restricted frequency bands (Conducted) | 15.247(d)           | Hopping Mode; Low/Middle/High | Pass    | --     |
| 9   | Band Edge Emissions (Restricted frequency bands)       | 15.209<br>15.247(d) | Low/High                      | Pass    | --     |
| 10  | Radiated Spurious Emission                             | 15.209<br>15.247(d) | Low/Middle/High               | Pass    | --     |

#### 3.3 Test Laboratory

|                               |                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Test Laboratory               | Shenzhen EU Testing Laboratory Limited                                                                              |
| Address                       | 101, Bldg. B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China |
| Designation Number            | CN1368                                                                                                              |
| Test Firm Registration Number | 952583                                                                                                              |

## 4 Test Configuration

### 4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

|                            |                         |                |
|----------------------------|-------------------------|----------------|
| Relative Humidity          | 30% to 60%              |                |
| Atmospheric Pressure       | 86 kPa to 106 kPa       |                |
| Temperature                | NT (Normal Temperature) | +15°C to +35°C |
| Working Voltage of the EUT | NV (Normal Voltage)     | 3.8V           |

### 4.2 Test Equipment

| Conducted Emission at AC power line  |                 |          |           |            |               |
|--------------------------------------|-----------------|----------|-----------|------------|---------------|
| Equipment                            | Manufacturer    | Model No | Serial No | Cal. Date  | Cal. Due Date |
| L.I.S.N.<br>Artificial Mains Network | Rohde & Schwarz | ENV216   | EE-004    | 2024/01/09 | 2025/01/08    |
| EMI Test Receiver                    | Rohde & Schwarz | ESCI     | EE-005    | 2024/01/09 | 2025/01/08    |
| Test Software                        | Farad           | EZ-EMC   | EE-014    | N.C.R      | N.C.R         |

| Radiated Emission and RF Test         |                 |              |           |            |              |
|---------------------------------------|-----------------|--------------|-----------|------------|--------------|
| Equipment                             | Manufacturer    | Model No     | Serial No | Cal Date   | Cal Due Date |
| EMI Test Receiver                     | ROHDE & SCHWARZ | ESPI         | EE-006    | 2024/01/09 | 2025/01/08   |
| Bilog Broadband Antenna               | SCHWARZBECK     | VULB 9163    | EE-007    | 2023/01/14 | 2026/01/13   |
| Double Ridged Horn Antenna            | A-INFOMW        | LB-10180-NF  | EE-008    | 2023/01/12 | 2026/01/11   |
| Pre-amplifier                         | Agilent         | 8447D        | EE-009    | 2024/01/09 | 2025/01/08   |
| Pre-amplifier                         | Agilent         | 8449B        | EE-010    | 2024/01/09 | 2025/01/08   |
| MXA Signal Analyzer                   | Agilent         | N9020A       | EE-011    | 2024/01/09 | 2025/01/08   |
| MXG RF Vector Signal Generator        | Agilent         | N5182A       | EE-012    | 2024/01/09 | 2025/01/08   |
| Test Software                         | Farad           | EZ-EMC       | EE-015    | N.C.R      | N.C.R        |
| MIMO Power Measurement Module         | TSTPASS         | TSPS 2023R   | EE-016    | 2023/05/17 | 2024/05/16   |
| RF Test Software                      | TSTPASS         | TS32893 V2.0 | EE-017    | N.C.R      | N.C.R        |
| Wideband Radio Communication Tester   | ROHDE & SCHWARZ | CMW500       | EE-402    | 2024/02/15 | 2025/02/14   |
| Loop Antenna                          | TESEQ           | HLA6121      | EE-403    | 2024/02/15 | 2025/02/14   |
| MXG RF Analog Signal Generator        | Agilent         | N5181A       | EE-406    | 2024/02/15 | 2025/02/14   |
| Constant Temperature Humidity Chamber | Guangxin        | GXP-401      | ES-002    | 2023/07/31 | 2024/07/30   |

### 4.3 Description of Support Unit

| No. | Title   | Manufacturer        | Model No.           | Serial No. |
|-----|---------|---------------------|---------------------|------------|
| 1   | Adapter | refer to clause 2.4 | refer to clause 2.4 | --         |

### 4.4 Test Mode

| No. | Test Modes                       | Description                                                                                  |
|-----|----------------------------------|----------------------------------------------------------------------------------------------|
| TM1 | TX-GFSK (Non-Hopping)            | Keep the EUT in continuously transmitting mode (non-hopping) with GFSK modulation.           |
| TM2 | TX-GFSK (Hopping)                | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation.               |
| TM3 | TX- $\pi/4$ -DQPSK (Non-Hopping) | Keep the EUT in continuously transmitting mode (non-hopping) with $\pi/4$ -DQPSK modulation. |
| TM4 | TX- $\pi/4$ -DQPSK (Hopping)     | Keep the EUT in continuously transmitting mode (hopping) with $\pi/4$ -DQPSK modulation.     |
| TM5 | TX-8DPSK (Non-Hopping)           | Keep the EUT in continuously transmitting mode (non-hopping) with 8DPSK modulation.          |
| TM6 | TX-8DPSK (Hopping)               | Keep the EUT in continuously transmitting mode (hopping) with 8DPSK modulation.              |

### 4.5 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Test Item                         | Measurement Uncertainty   |
|-----------------------------------|---------------------------|
| Conducted Emission                | 2.64 dB                   |
| Occupied Channel Bandwidth        | 2.8 %                     |
| RF output power, conducted        | 0.68 dB                   |
| Power Spectral Density, conducted | 1.37 dB                   |
| Unwanted Emissions, conducted     | 1.84 dB                   |
| Radiated Emission (30MHz- 1GHz)   | Ur = 2.70 dB (Horizontal) |
|                                   | Ur = 2.70 dB (Vertical)   |
| Radiated Emission (1GHz- 18GHz)   | Ur = 3.50 dB (Horizontal) |
|                                   | Ur = 3.50 dB (Vertical)   |
| Radiated Emission (18GHz- 40GHz)  | Ur = 5.15 dB (Horizontal) |
|                                   | Ur = 5.24 dB (Vertical)   |
| Temperature                       | 0.8°C                     |
| Humidity                          | 4%                        |

### 4.6 Deviation from Standards

None.

### 4.7 Abnormalities from Standard Condition

None.

## 5 Test Items

### 5.1 Antenna requirement

#### 5.1.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | <p>According to FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p> <p>If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.</p> |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

| Protected Method                        | Description                            |
|-----------------------------------------|----------------------------------------|
| The antenna is embedded in the product. | An embedded-in antenna design is used. |

| Reference Documents | Item                                     |
|---------------------|------------------------------------------|
| Photo               | Please refer to the EUT Photo documents. |

#### 5.1.3 Antenna Gain

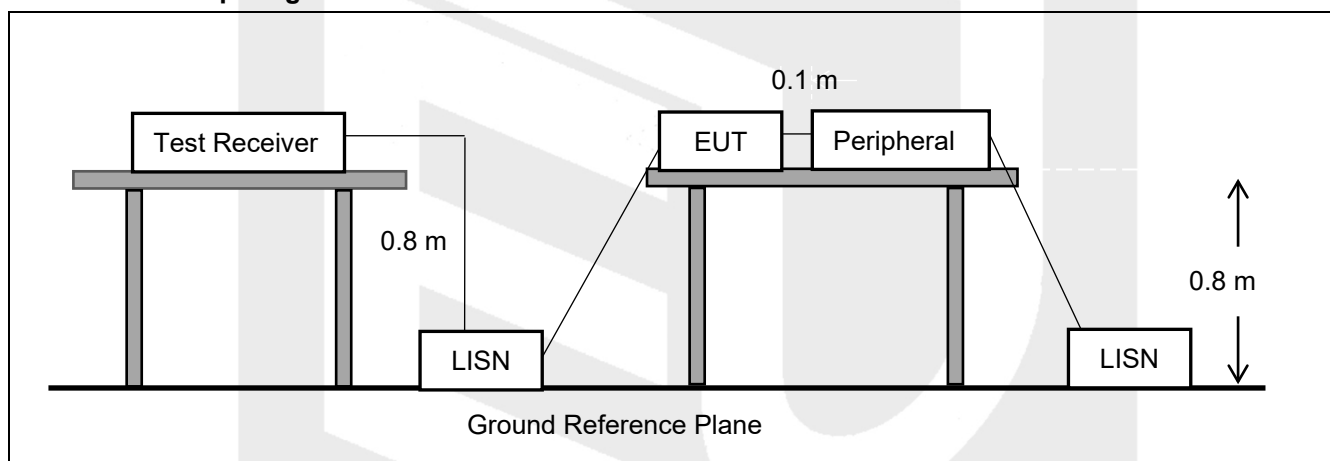
The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

## 5.2 Conducted Emission at AC Power Line

### 5.2.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                              |           |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|
| Test Requirement | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN). |                              |           |
| Test Limit       | Frequency of emission (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                          | Conducted limit (dB $\mu$ V) |           |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |           |

### 5.2.2 Test Setup Diagram



### 5.2.3 Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are investigated to find out the maximum conducted emission according to the test standard regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

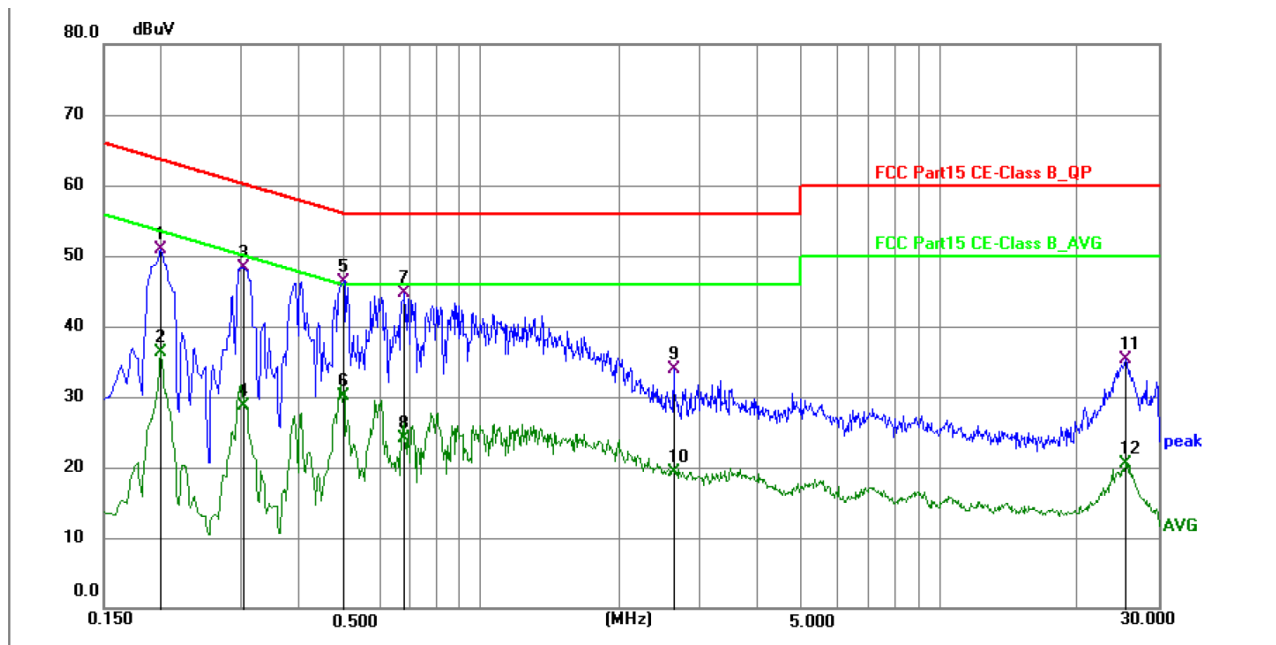
### 5.2.4 Test Data

PASS.

Only the worst case data was showed in the report, please to see the following pages.

**Conducted Emission Test Data**

Test Site: Shielded Room #1  
Test Mode: TM1/ CH Middle  
Comments: Live Line



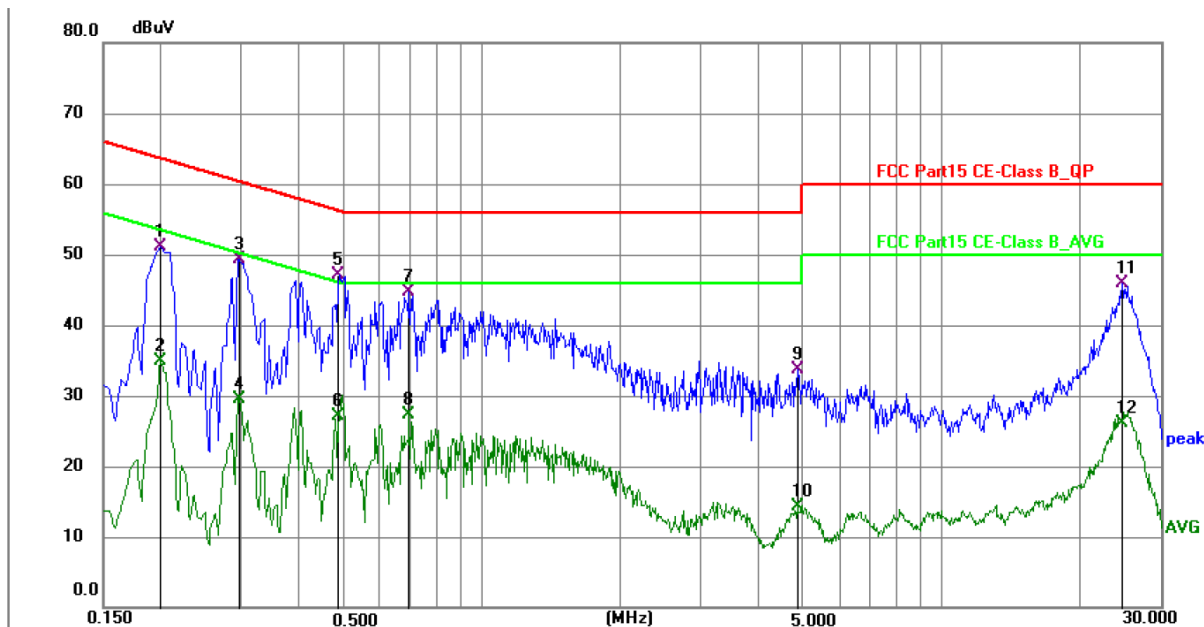
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1995          | 41.03          | 9.94        | 50.97        | 63.63        | -12.66      | QP       | P   |        |
| 2   | 0.1995          | 26.30          | 9.94        | 36.24        | 53.63        | -17.39      | AVG      | P   |        |
| 3   | 0.3030          | 38.30          | 9.97        | 48.27        | 60.16        | -11.89      | QP       | P   |        |
| 4   | 0.3030          | 18.82          | 9.97        | 28.79        | 50.16        | -21.37      | AVG      | P   |        |
| 5 * | 0.4994          | 36.35          | 10.00       | 46.35        | 56.01        | -9.66       | QP       | P   |        |
| 6   | 0.4994          | 20.19          | 10.00       | 30.19        | 46.01        | -15.82      | AVG      | P   |        |
| 7   | 0.6809          | 34.76          | 10.01       | 44.77        | 56.00        | -11.23      | QP       | P   |        |
| 8   | 0.6809          | 14.13          | 10.01       | 24.14        | 46.00        | -21.86      | AVG      | P   |        |
| 9   | 2.6295          | 23.81          | 10.02       | 33.83        | 56.00        | -22.17      | QP       | P   |        |
| 10  | 2.6295          | 9.26           | 10.02       | 19.28        | 46.00        | -26.72      | AVG      | P   |        |
| 11  | 25.4985         | 25.04          | 10.22       | 35.26        | 60.00        | -24.74      | QP       | P   |        |
| 12  | 25.4985         | 10.33          | 10.22       | 20.55        | 50.00        | -29.45      | AVG      | P   |        |

Note: Level = Reading + Factor

Margin = Level - Limit

### Conducted Emission Test Data

Test Site: Shielded Room #1  
Test Mode: TM1/ CH Middle  
Comments: Neutral Line



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1   | 0.1997          | 41.25          | 9.94        | 51.19        | 63.62        | -12.43      | QP       | P   |        |
| 2   | 0.1997          | 25.03          | 9.94        | 34.97        | 53.62        | -18.65      | AVG      | P   |        |
| 3   | 0.2955          | 39.39          | 9.95        | 49.34        | 60.37        | -11.03      | QP       | P   |        |
| 4   | 0.2955          | 19.53          | 9.95        | 29.48        | 50.37        | -20.89      | AVG      | P   |        |
| 5 * | 0.4889          | 37.15          | 10.00       | 47.15        | 56.19        | -9.04       | QP       | P   |        |
| 6   | 0.4889          | 17.13          | 10.00       | 27.13        | 46.19        | -19.06      | AVG      | P   |        |
| 7   | 0.6936          | 34.61          | 10.01       | 44.62        | 56.00        | -11.38      | QP       | P   |        |
| 8   | 0.6936          | 17.23          | 10.01       | 27.24        | 46.00        | -18.76      | AVG      | P   |        |
| 9   | 4.8480          | 23.72          | 10.01       | 33.73        | 56.00        | -22.27      | QP       | P   |        |
| 10  | 4.8480          | 4.38           | 10.01       | 14.39        | 46.00        | -31.61      | AVG      | P   |        |
| 11  | 24.6594         | 35.66          | 10.20       | 45.86        | 60.00        | -14.14      | QP       | P   |        |
| 12  | 24.6594         | 15.88          | 10.20       | 26.08        | 50.00        | -23.92      | AVG      | P   |        |

Note: Level = Reading + Factor

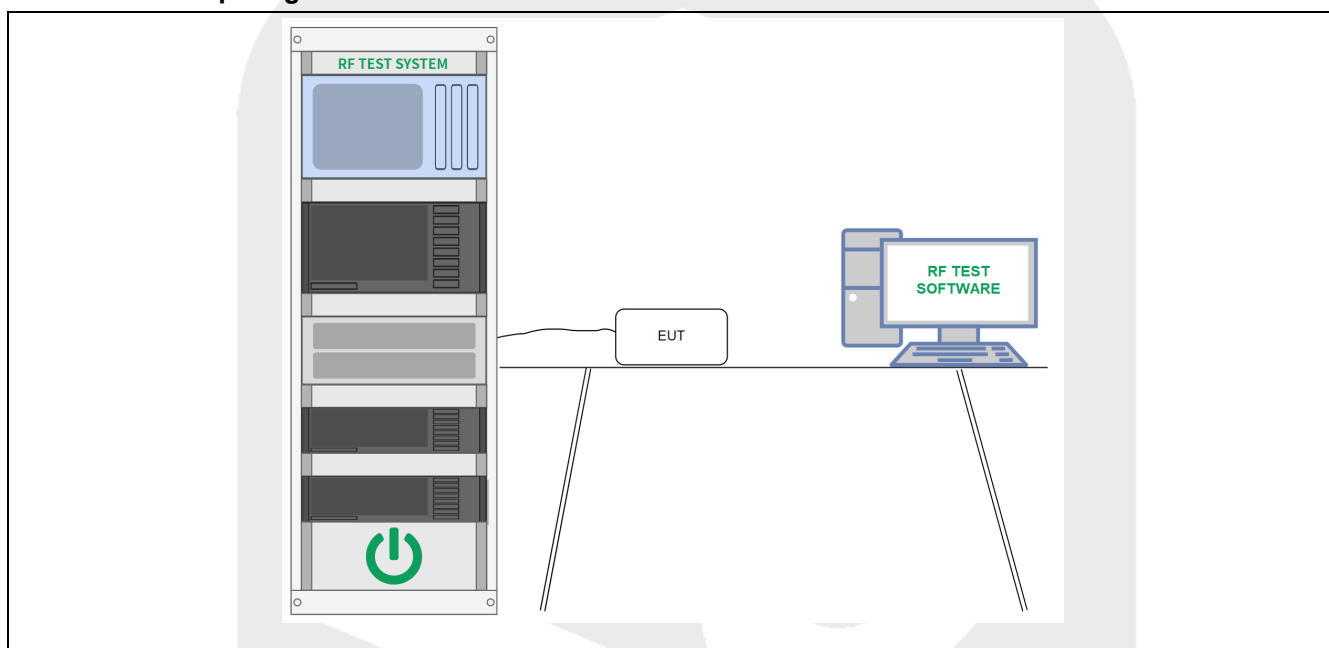
Margin = Level - Limit

### 5.3 20dB Bandwidth

#### 5.3.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. |
| Test Method      | ANSI C63.10-2020, section 6.9.2                                                                                                                                                                                                                                                                                                                                                                                                                                              |

#### 5.3.2 Test Setup Diagram



### 5.3.3 Test Procedure

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- 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  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to maxhold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using  $[(\text{reference value}) - xx]$ . Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) 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).

### 5.3.4 Test Data

**PASS.**

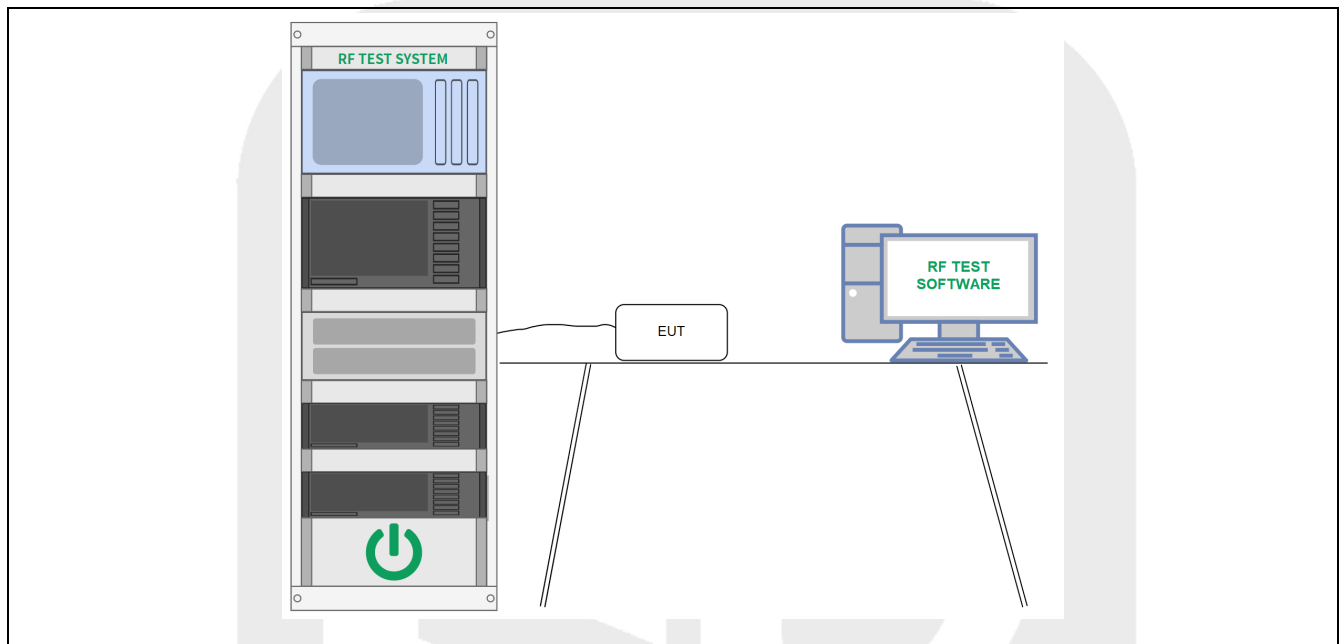
Please refer to Annex E for details.

## 5.4 Maximum Conducted Output Power

### 5.4.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts. |
| Test Method      | ANSI C63.10-2020, section 7.8.5                                                                                                                                                                                                                                                    |

### 5.4.2 Test Setup Diagram



### 5.4.3 Test Procedure

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation.

The hopping shall be disabled for this test:

a) Use the following spectrum analyzer settings:

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW  $\geq$  RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.

b) Allow trace to stabilize.

c) Use the marker-to-peak function to set the marker to the peak of the emission.

d) The indicated level is the peak output power, after any corrections for external attenuators and cables.

A plot of the test results and setup description shall be included in the test report. NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

### 5.4.4 Test Data

**PASS.**

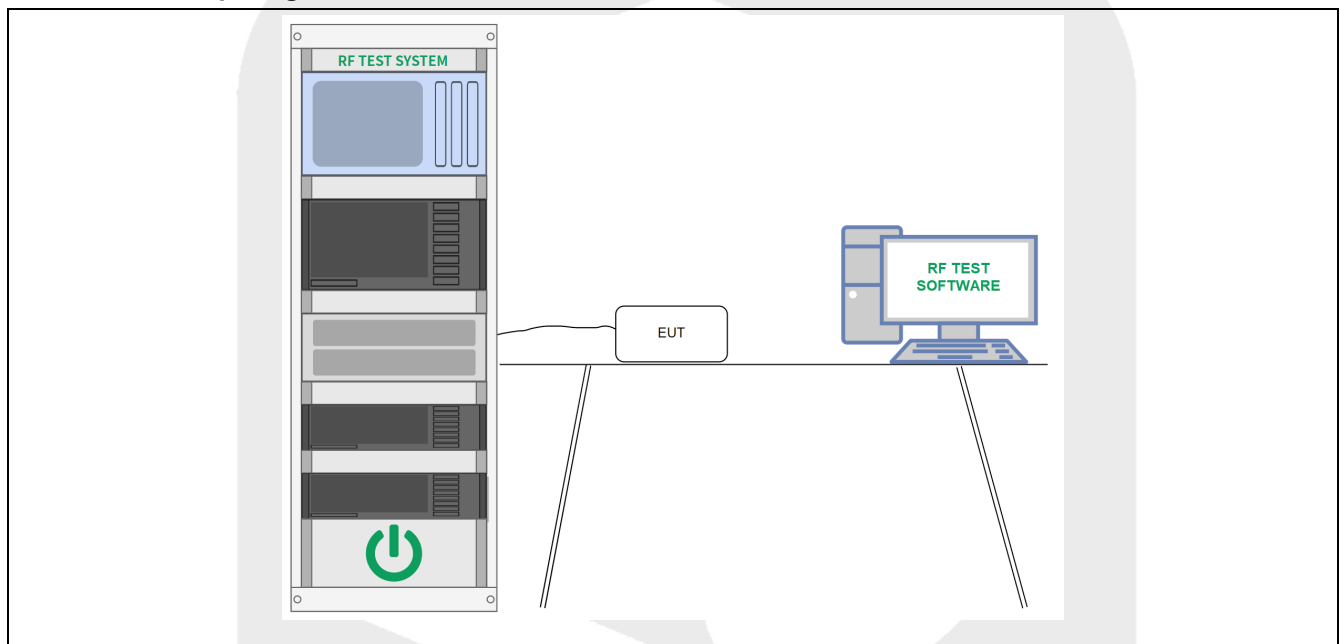
Please refer to Annex E for details.

## 5.5 Carrier Frequency Separation

### 5.5.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. |
| Test Method      | ANSI C63.10-2020, section 7.8.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### 5.5.2 Test Setup Diagram



### 5.5.3 Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channelspacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW)  $\geq$  RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

### 5.5.4 Test Data

**PASS.**

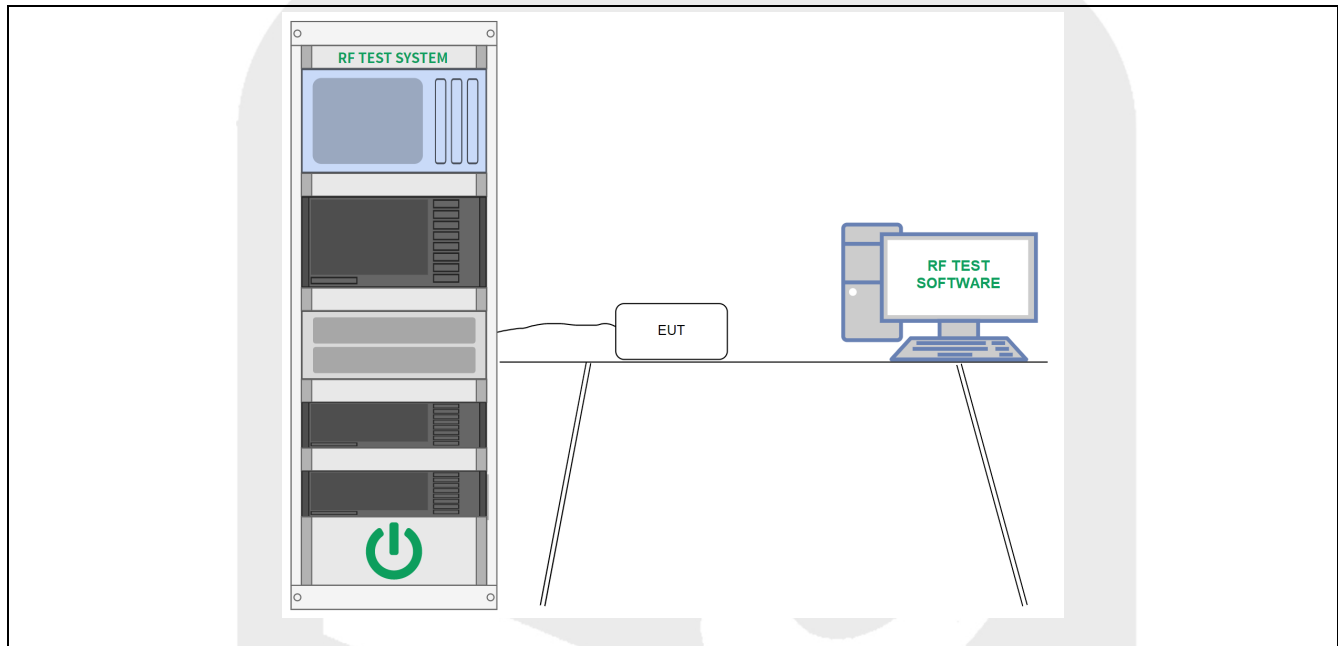
Please refer to Annex E for details.

## 5.6 Number of Hopping Frequencies

### 5.6.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. |
| Test Method      | ANSI C63.10-2020, section 7.8.3                                                                                                                                                                                                                                                                                                                                                                                 |

### 5.6.2 Test Setup Diagram



### 5.6.3 Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- VBW  $\geq$  RBW.
- Sweep: Auto.
- Detector function: Peak.
- Trace: Max hold.
- Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

### 5.6.4 Test Data

**PASS.**

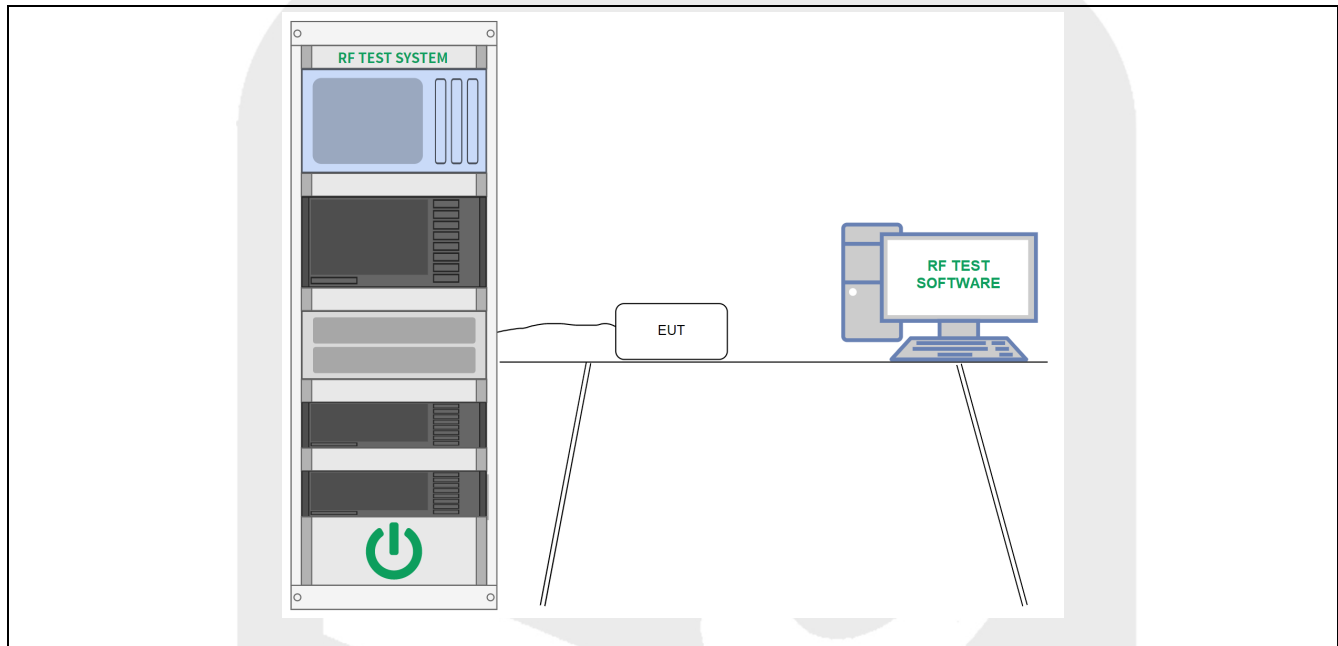
Please refer to Annex E for details.

## 5.7 Time of Occupancy (Dwell Time)

### 5.7.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. |
| Test Method      | ANSI C63.10-2020, section 7.8.4                                                                                                                                                                                                                                                                                                                                                                                 |

### 5.7.2 Test Setup Diagram



### 5.7.3 Test Procedure

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

- Span: Zero span, centered on a hopping channel.
- RBW shall be  $\leq$  channel spacing and where possible RBW should be set  $\gg 1/T$ , where T is the expected dwell time per channel.
- Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- Detector function: Peak.
- Trace: Max hold.

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

$$\begin{aligned}
 &(\text{Number of hops in the period specified in the requirements}) = \\
 &(\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer sweep time})
 \end{aligned}$$

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of

hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

#### 5.7.4 Test Data

**PASS.**

Please refer to Annex E for details.

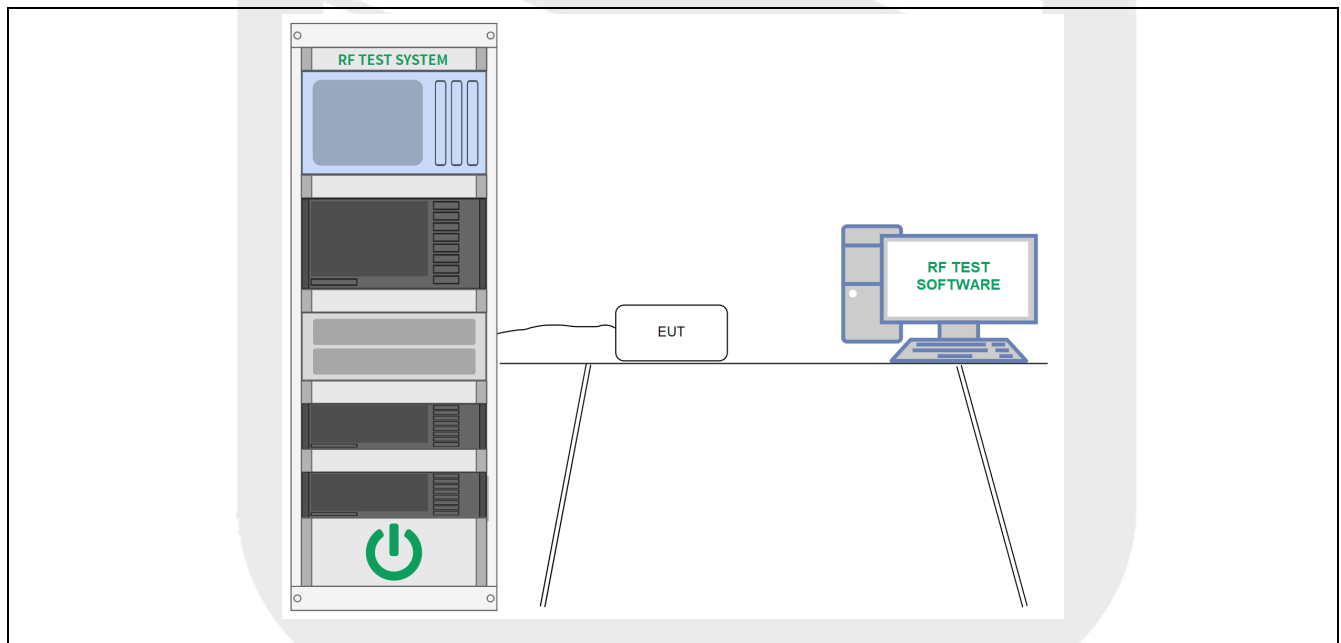


## 5.8 Emissions in Non-restricted Frequency Bands (Conducted)

### 5.8.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method      | ANSI C63.10-2020 Section 11.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### 5.8.2 Test Setup Diagram



### 5.8.3 Test Procedure

Conducted spurious emissions shall be measured for the transmit frequency and at the maximum transmit powers.

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz  
 VBW = 300 kHz  
 Sweep = auto  
 Detector function = peak  
 Trace = max hold  
 Allow the trace to stabilize

### 5.8.4 Test Data

**PASS.**

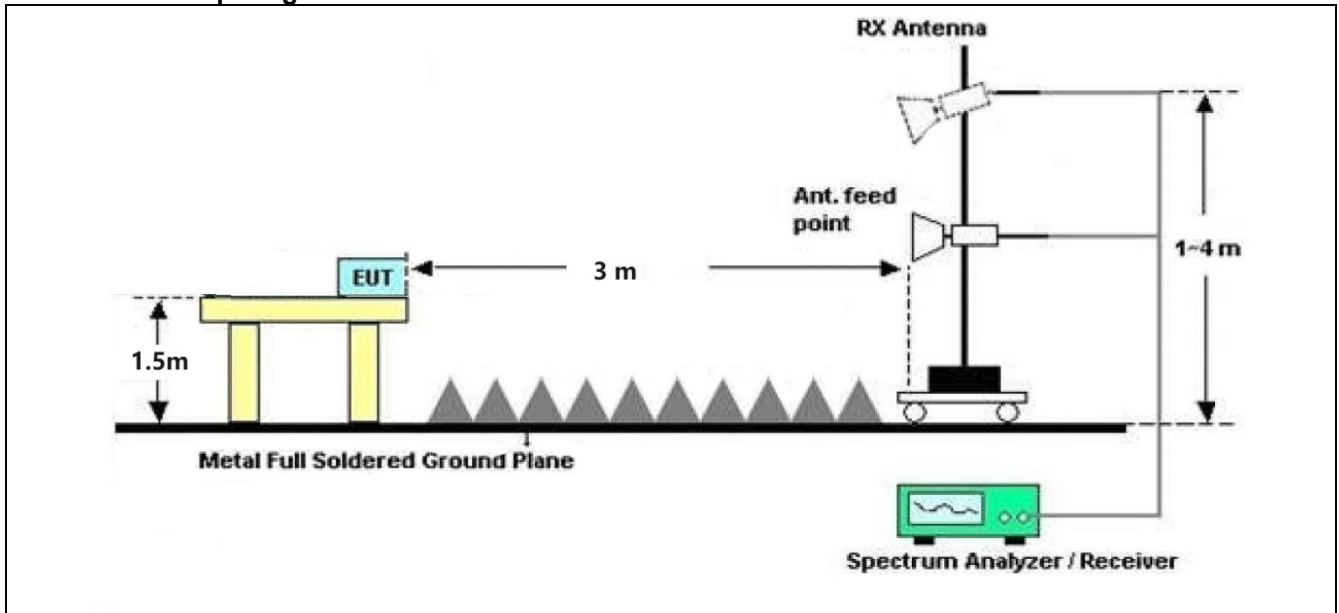
Please refer to Annex E for details.

## 5.9 Band Edge Emissions (Restricted frequency bands)

### 5.9.1 Test Requirement

| Test Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                   |                               |     |     |     |     |             |              |           |          |             |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |  |             |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|-----|-----|-----|-----|-------------|--------------|-----------|----------|-------------|-------------------|---------|-----------|---------------|-------------------|----------|-----------|-------------|------------|-----------|-----------|-----------------|------------|-------------|---------|-----------------|---------|---------------|---------|-------------|-----------|-----------|-----------|-----------------|------------|---------------|------------|-----------------|---------|-----------|------------|-------------|--------------|-----------|------------|-------------|---------------------|-------------|-----------|-----------------|-------------|-----------|-------------|-----------------|-----------------|-----------|-----------|--------------|--------------|-----------|-----------|-------------------|---------|-------------|------------|-------------------|-----------|-----------|--|-------------|--|--|
| Test Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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>Restricted frequency bands:</p> <table> <tr> <th>MHz</th><th>MHz</th><th>MHz</th><th>GHz</th></tr> <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>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></td></tr> <tr> <td>13.36-13.41</td><td></td><td></td><td></td></tr> </table> |                                   |                               | MHz | MHz | MHz | GHz | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | 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 |  | 13.36-13.41 |  |  |
| MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MHz                               | GHz                           |     |     |     |     |             |              |           |          |             |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |  |             |  |  |
| 0.090-0.110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16.42-16.423                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 399.9-410                         | 4.5-5.15                      |     |     |     |     |             |              |           |          |             |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |  |             |  |  |
| 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                         |                               |     |     |     |     |             |              |           |          |             |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |  |             |  |  |
| 13.36-13.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                               |     |     |     |     |             |              |           |          |             |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |  |             |  |  |
| <p>Note:</p> <p>1) Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].</p> <p>2) In the emission tables above, the tighter limit applies at the band edges.</p> <p>3) For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.</p> <p>4) For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                               |     |     |     |     |             |              |           |          |             |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |  |             |  |  |
| Test Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ANSI C63.10-2020 section 6.6.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                   |                               |     |     |     |     |             |              |           |          |             |                   |         |           |               |                   |          |           |             |            |           |           |                 |            |             |         |                 |         |               |         |             |           |           |           |                 |            |               |            |                 |         |           |            |             |              |           |            |             |                     |             |           |                 |             |           |             |                 |                 |           |           |              |              |           |           |                   |         |             |            |                   |           |           |  |             |  |  |

### 5.9.2 Test Setup Diagram



### 5.9.3 Test Procedure

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. All test modes are verified.  
 The power of the EUT transmitting frequency should be ignored.  
 All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.  
 Use the following spectrum analyzer settings:  
 Span = wide enough to fully capture the emission being measured  
 RBW = 1 MHz for  $f \geq 1$  GHz  
 VBW  $\geq$  RBW  
 Sweep = auto  
 Detector function = peak  
 Trace = max hold.

### 5.9.4 Test Data

**PASS.**

Please refer to the following pages.

**Band Edge Emissions (Restricted frequency bands):**

| Test Mode: GFSK |                 |                |               |                         | CH Low: 2402 MHz |             |               |        |
|-----------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.            | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H               | 2310.00         | 46.27          | -2.81         | 43.46                   | 74.00            | -30.54      | PK            | PASS   |
| H               | 2390.00         | 49.65          | -2.69         | 46.96                   | 74.00            | -27.04      | PK            | PASS   |
| H               | **2400.00       | 61.82          | -2.68         | 59.14                   | 74.00            | -14.86      | PK            | PASS   |
| V               | 2310.00         | 43.50          | -2.81         | 40.69                   | 74.00            | -33.31      | PK            | PASS   |
| V               | 2390.00         | 48.93          | -2.69         | 46.24                   | 74.00            | -27.76      | PK            | PASS   |
| V               | **2400.00       | 64.88          | -2.68         | 62.20                   | 74.00            | -11.80      | PK            | PASS   |
| H               | 2310.00         | 33.18          | -2.81         | 30.37                   | 54.00            | -23.63      | AV            | PASS   |
| H               | 2390.00         | 37.10          | -2.69         | 34.41                   | 54.00            | -19.59      | AV            | PASS   |
| H               | **2400.00       | 47.57          | -2.68         | 44.89                   | 54.00            | -9.11       | AV            | PASS   |
| V               | 2310.00         | 35.02          | -2.81         | 32.21                   | 54.00            | -21.79      | AV            | PASS   |
| V               | 2390.00         | 37.20          | -2.69         | 34.51                   | 54.00            | -19.49      | AV            | PASS   |
| V               | **2400.00       | 48.10          | -2.68         | 45.42                   | 54.00            | -8.58       | AV            | PASS   |

| Test Mode: GFSK |                 |                |               |                         | CH High: 2480 MHz |             |               |        |
|-----------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.            | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H               | **2483.50       | 50.55          | -2.56         | 47.99                   | 74.00             | -26.01      | PK            | PASS   |
| H               | 2500.00         | 51.29          | -2.54         | 48.75                   | 74.00             | -25.25      | PK            | PASS   |
| V               | **2483.50       | 47.28          | -2.56         | 44.72                   | 74.00             | -29.28      | PK            | PASS   |
| V               | 2500.00         | 50.50          | -2.54         | 47.96                   | 74.00             | -26.04      | PK            | PASS   |
| H               | **2483.50       | 37.67          | -2.56         | 35.11                   | 54.00             | -18.89      | AV            | PASS   |
| H               | 2500.00         | 39.75          | -2.54         | 37.21                   | 54.00             | -16.79      | AV            | PASS   |
| V               | **2483.50       | 37.52          | -2.56         | 34.96                   | 54.00             | -19.04      | AV            | PASS   |
| V               | 2500.00         | 39.32          | -2.54         | 36.78                   | 54.00             | -17.22      | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions (Restricted frequency bands):**

| Test Mode: $\pi/4$ -DQPSK |                 |                |               |                         | CH Low: 2402 MHz |             |               |        |
|---------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.                      | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                         | 2310.00         | 45.03          | -2.81         | 42.22                   | 74.00            | -31.78      | PK            | PASS   |
| H                         | 2390.00         | 46.53          | -2.69         | 43.84                   | 74.00            | -30.16      | PK            | PASS   |
| H                         | **2400.00       | 65.14          | -2.68         | 62.46                   | 74.00            | -11.54      | PK            | PASS   |
| V                         | 2310.00         | 44.38          | -2.81         | 41.57                   | 74.00            | -32.43      | PK            | PASS   |
| V                         | 2390.00         | 47.96          | -2.69         | 45.27                   | 74.00            | -28.73      | PK            | PASS   |
| V                         | **2400.00       | 65.01          | -2.68         | 62.33                   | 74.00            | -11.67      | PK            | PASS   |
| H                         | 2310.00         | 32.42          | -2.81         | 29.61                   | 54.00            | -24.39      | AV            | PASS   |
| H                         | 2390.00         | 36.78          | -2.69         | 34.09                   | 54.00            | -19.91      | AV            | PASS   |
| H                         | **2400.00       | 49.70          | -2.68         | 47.02                   | 54.00            | -6.98       | AV            | PASS   |
| V                         | 2310.00         | 33.56          | -2.81         | 30.75                   | 54.00            | -23.25      | AV            | PASS   |
| V                         | 2390.00         | 35.44          | -2.69         | 32.75                   | 54.00            | -21.25      | AV            | PASS   |
| V                         | **2400.00       | 48.65          | -2.68         | 45.97                   | 54.00            | -8.03       | AV            | PASS   |

| Test Mode: $\pi/4$ -DQPSK |                 |                |               |                         | CH High: 2480 MHz |             |               |        |
|---------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.                      | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                         | **2483.50       | 50.36          | -2.56         | 47.80                   | 74.00             | -26.20      | PK            | PASS   |
| H                         | 2500.00         | 49.98          | -2.54         | 47.44                   | 74.00             | -26.56      | PK            | PASS   |
| V                         | **2483.50       | 50.51          | -2.56         | 47.95                   | 74.00             | -26.05      | PK            | PASS   |
| V                         | 2500.00         | 49.59          | -2.54         | 47.05                   | 74.00             | -26.95      | PK            | PASS   |
| H                         | **2483.50       | 38.01          | -2.56         | 35.45                   | 54.00             | -18.55      | AV            | PASS   |
| H                         | 2500.00         | 39.85          | -2.54         | 37.31                   | 54.00             | -16.69      | AV            | PASS   |
| V                         | **2483.50       | 39.32          | -2.56         | 36.76                   | 54.00             | -17.24      | AV            | PASS   |
| V                         | 2500.00         | 40.65          | -2.54         | 38.11                   | 54.00             | -15.89      | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

**Band Edge Emissions (Restricted frequency bands):**

| Test Mode: 8DPSK |                 |                |               |                         | CH Low: 2402 MHz |             |               |        |
|------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.             | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| H                | 2310.00         | 45.58          | -2.81         | 42.77                   | 74.00            | -31.23      | PK            | PASS   |
| H                | 2390.00         | 49.18          | -2.69         | 46.49                   | 74.00            | -27.51      | PK            | PASS   |
| H                | **2400.00       | 62.11          | -2.68         | 59.43                   | 74.00            | -14.57      | PK            | PASS   |
| V                | 2310.00         | 46.54          | -2.81         | 43.73                   | 74.00            | -30.27      | PK            | PASS   |
| V                | 2390.00         | 49.22          | -2.69         | 46.53                   | 74.00            | -27.47      | PK            | PASS   |
| V                | **2400.00       | 64.36          | -2.68         | 61.68                   | 74.00            | -12.32      | PK            | PASS   |
| H                | 2310.00         | 35.02          | -2.81         | 32.21                   | 54.00            | -21.79      | AV            | PASS   |
| H                | 2390.00         | 35.85          | -2.69         | 33.16                   | 54.00            | -20.84      | AV            | PASS   |
| H                | **2400.00       | 48.15          | -2.68         | 45.47                   | 54.00            | -8.53       | AV            | PASS   |
| V                | 2310.00         | 34.21          | -2.81         | 31.40                   | 54.00            | -22.60      | AV            | PASS   |
| V                | 2390.00         | 35.91          | -2.69         | 33.22                   | 54.00            | -20.78      | AV            | PASS   |
| V                | **2400.00       | 46.75          | -2.68         | 44.07                   | 54.00            | -9.93       | AV            | PASS   |

| Test Mode: 8DPSK |                 |                |               |                         | CH High: 2480 MHz |             |               |        |
|------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.             | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| H                | **2483.50       | 49.35          | -2.56         | 46.79                   | 74.00             | -27.21      | PK            | PASS   |
| H                | 2500.00         | 52.20          | -2.54         | 49.66                   | 74.00             | -24.34      | PK            | PASS   |
| V                | **2483.50       | 50.36          | -2.56         | 47.80                   | 74.00             | -26.20      | PK            | PASS   |
| V                | 2500.00         | 52.98          | -2.54         | 50.44                   | 74.00             | -23.56      | PK            | PASS   |
| H                | **2483.50       | 38.85          | -2.56         | 36.29                   | 54.00             | -17.71      | AV            | PASS   |
| H                | 2500.00         | 39.22          | -2.54         | 36.68                   | 54.00             | -17.32      | AV            | PASS   |
| V                | **2483.50       | 39.43          | -2.56         | 36.87                   | 54.00             | -17.13      | AV            | PASS   |
| V                | 2500.00         | 42.82          | -2.54         | 40.28                   | 54.00             | -13.72      | AV            | PASS   |

Remark:

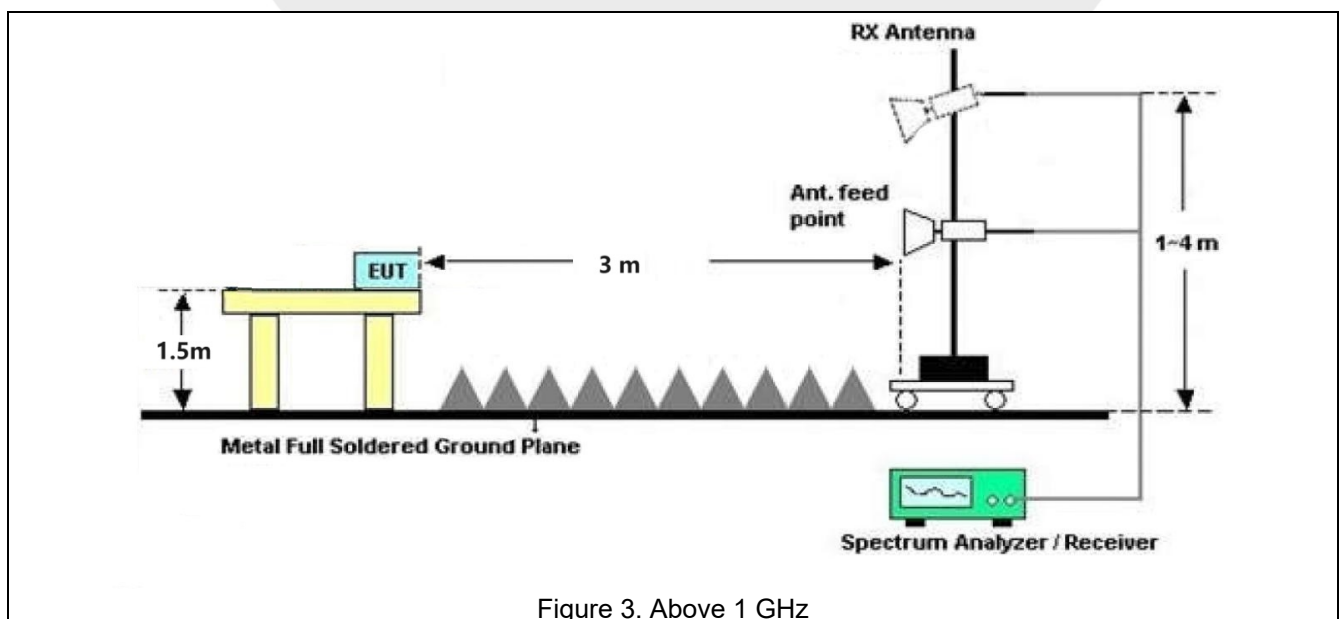
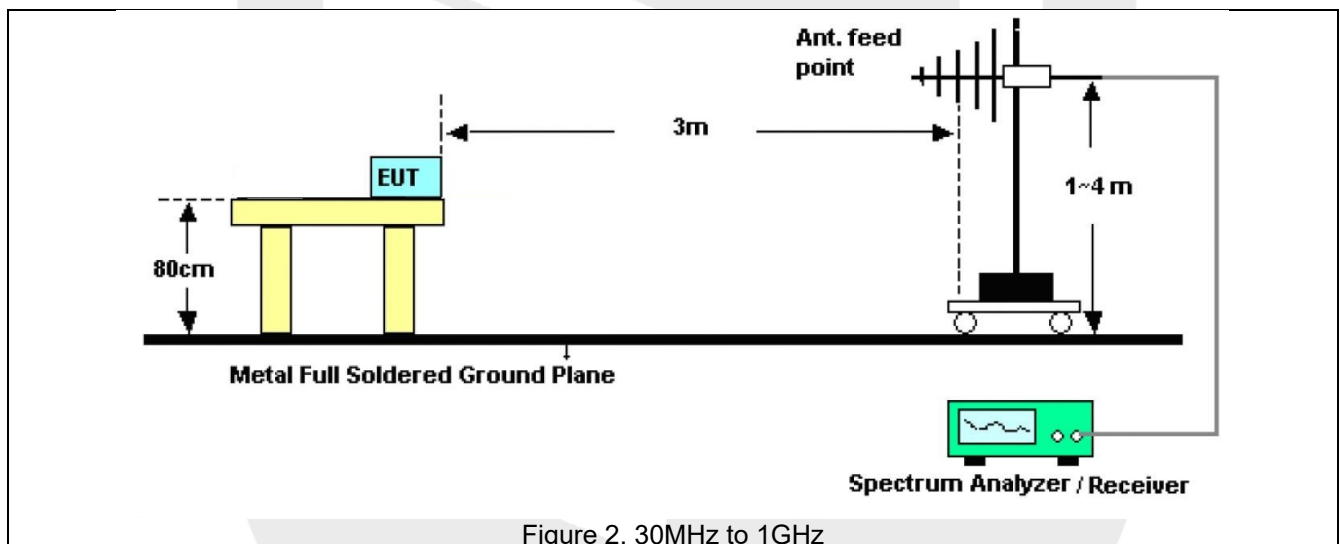
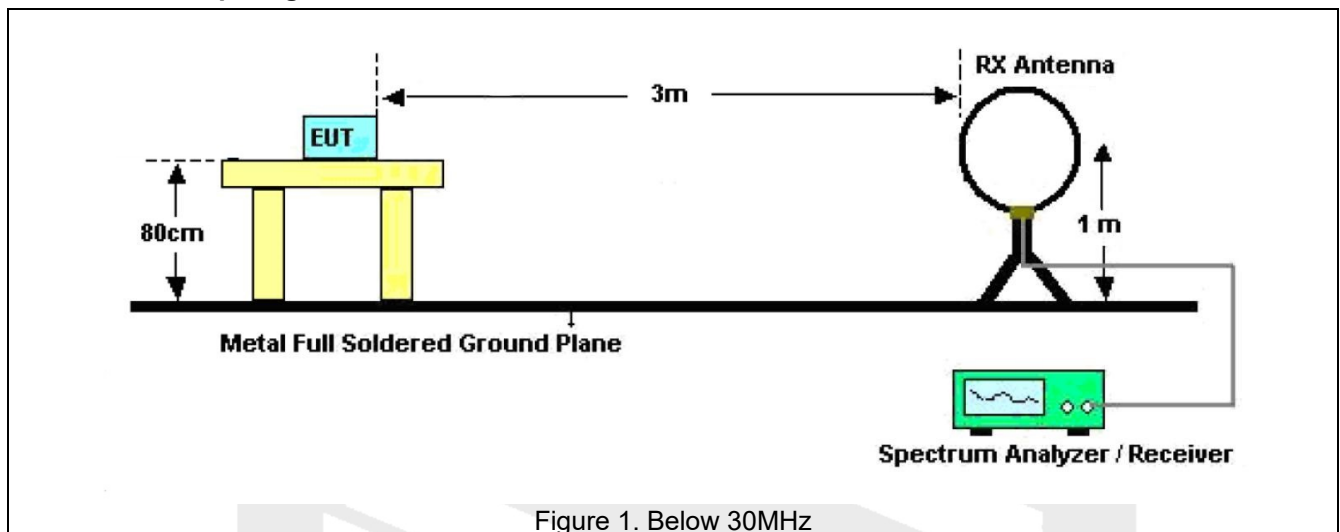
1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

## 5.10 Radiated Spurious Emission

### 5.10.1 Test Requirement

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Test Requirement | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                   |                               |
| Test Limit       | 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>Note:</p> <p>1) Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].</p> <p>2) In the emission tables above, the tighter limit applies at the band edges.</p> <p>3) For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.</p> <p>4) For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).</p> |                                   |                               |
| Test Method      | ANSI C63.10-2020 section 6.6.4<br>Radiated emissions tests                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   |                               |

### 5.10.2 Test Setup Diagram



### 5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9kHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

### 5.10.4 Test Data

#### **PASS.**

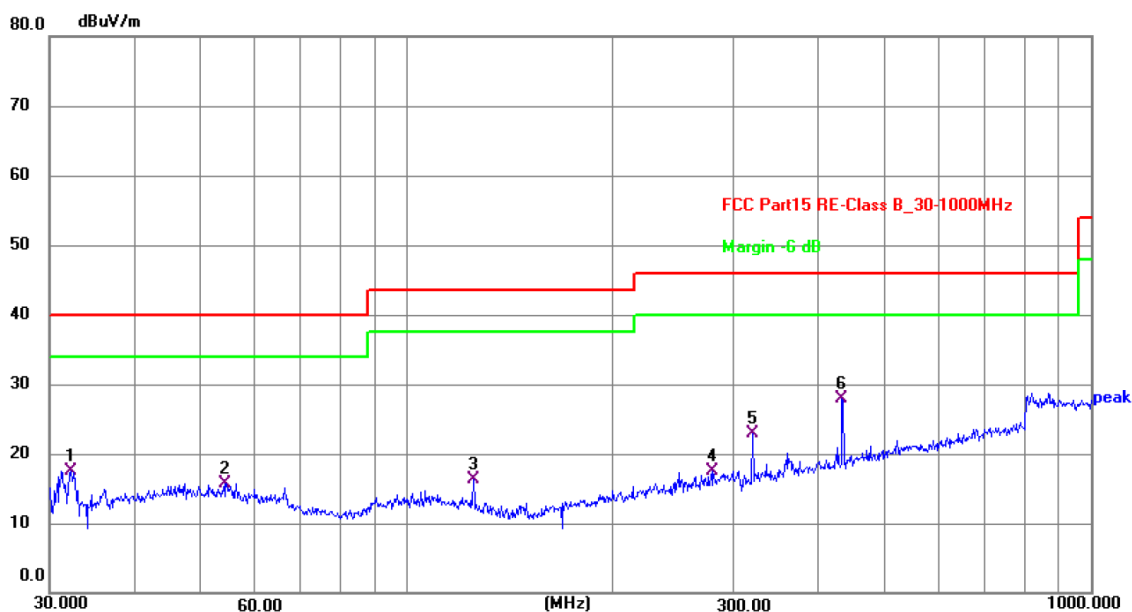
The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, for 30MHz to 1000MHz, pre-scan the GFSK,  $\pi/4$ -DQPSK, 8DPSK modulation, and found the GFSK modulation Middle channel which is the worst case, only the worst case is recorded in the report.

During the test, for 1GHz- 25GHz, pre-scan the GFSK,  $\pi/4$ -DQPSK, 8DPSK modulation, and found the GFSK modulation which is the worst case, only the worst case is recorded in the report.

**Radiated Emission Test Data (30-1000MHz)**

|                   |                |                      |                |
|-------------------|----------------|----------------------|----------------|
| <b>Test Site:</b> | 966 Chamber #1 | <b>Polarization:</b> | Horizontal     |
| <b>Distance:</b>  | 3m             | <b>Test Mode:</b>    | TM1/ CH Middle |

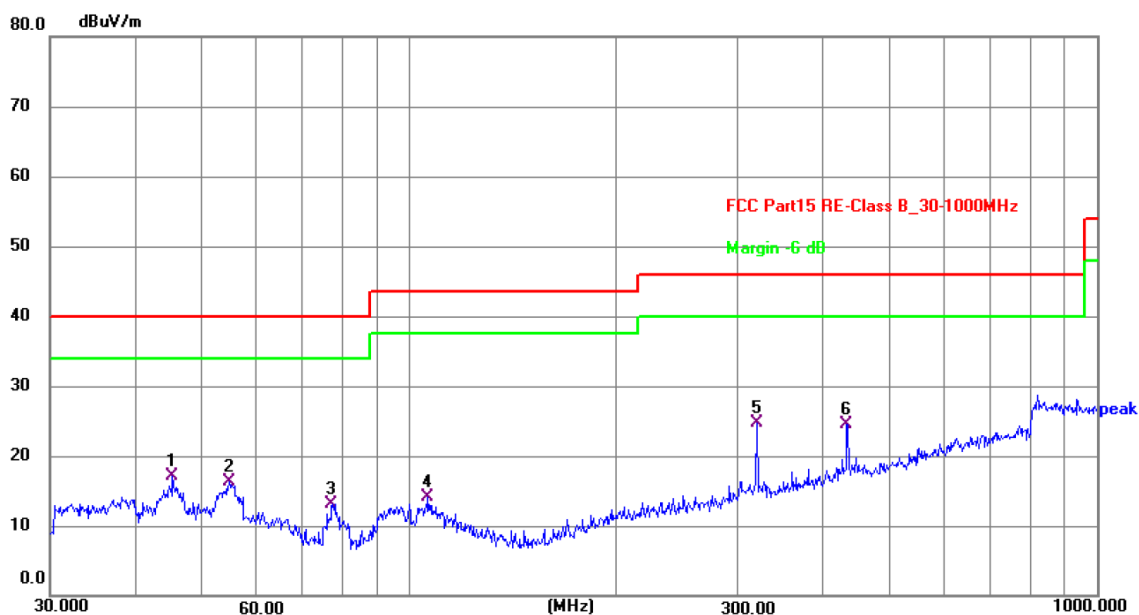


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 32.2924         | 34.47          | -16.90        | 17.57          | 40.00          | -22.43      | QP       | P   |        |
| 2   | 54.2610         | 30.15          | -14.40        | 15.75          | 40.00          | -24.25      | QP       | P   |        |
| 3   | 125.0065        | 33.19          | -16.87        | 16.32          | 43.50          | -27.18      | QP       | P   |        |
| 4   | 279.0436        | 29.91          | -12.49        | 17.42          | 46.00          | -28.58      | QP       | P   |        |
| 5   | 319.9370        | 34.45          | -11.58        | 22.87          | 46.00          | -23.13      | QP       | P   |        |
| 6 * | 432.5455        | 37.63          | -9.64         | 27.99          | 46.00          | -18.01      | QP       | P   |        |

**Note:** Level = Reading + Factor      Margin = Level - Limit

### Radiated Emission Test Data (30-1000MHz)

|                   |                |                      |                |
|-------------------|----------------|----------------------|----------------|
| <b>Test Site:</b> | 966 Chamber #1 | <b>Polarization:</b> | Vertical       |
| <b>Distance:</b>  | 3m             | <b>Test Mode:</b>    | TM1/ CH Middle |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1   | 45.2165         | 31.23          | -14.19        | 17.04          | 40.00          | -22.96      | QP       | P   |        |
| 2   | 54.6428         | 30.64          | -14.43        | 16.21          | 40.00          | -23.79      | QP       | P   |        |
| 3   | 77.3210         | 32.46          | -19.29        | 13.17          | 40.00          | -26.83      | QP       | P   |        |
| 4   | 106.3850        | 29.84          | -15.72        | 14.12          | 43.50          | -29.38      | QP       | P   |        |
| 5 * | 319.9370        | 36.22          | -11.56        | 24.66          | 46.00          | -21.34      | QP       | P   |        |
| 6   | 432.5455        | 34.13          | -9.64         | 24.49          | 46.00          | -21.51      | QP       | P   |        |

**Note:** Level = Reading + Factor      Margin = Level - Limit

**Radiated Spurious Emission (1GHz-25GHz)**

| Test Mode: GFSK |                 |                |               |                         | CH Low: 2402 MHz |             |               |        |
|-----------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol.            | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)   | Margin (dB) | Detector Type | Result |
| V               | 4804.40         | 40.75          | 4.68          | 45.43                   | 74.00            | -28.57      | PK            | PASS   |
| V               | 7206.91         | 35.98          | 9.84          | 45.82                   | 74.00            | -28.19      | PK            | PASS   |
| V               | 9608.57         | 30.89          | 13.17         | 44.06                   | 74.00            | -29.95      | PK            | PASS   |
| V               | 12010.35        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| V               | 14412.32        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| V               | 16814.77        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| H               | 4804.23         | 41.21          | 4.68          | 45.89                   | 74.00            | -28.12      | PK            | PASS   |
| H               | 7207.00         | 33.14          | 9.84          | 42.98                   | 74.00            | -31.03      | PK            | PASS   |
| H               | 9608.08         | 29.16          | 13.17         | 42.33                   | 74.00            | -31.68      | PK            | PASS   |
| H               | 12010.80        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| H               | 14412.40        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| H               | 16814.99        | *              | *             | *                       | 74.00            | *           | PK            | PASS   |
| V               | 4804.89         | 30.15          | 4.68          | 34.83                   | 54.00            | -19.18      | AV            | PASS   |
| V               | 7206.56         | 22.54          | 9.84          | 32.38                   | 54.00            | -21.63      | AV            | PASS   |
| V               | 9608.73         | 17.96          | 13.17         | 31.13                   | 54.00            | -22.88      | AV            | PASS   |
| V               | 12010.95        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| V               | 14412.15        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| V               | 16814.77        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H               | 4804.52         | 30.35          | 4.68          | 35.03                   | 54.00            | -18.97      | AV            | PASS   |
| H               | 7207.00         | 23.75          | 9.84          | 33.59                   | 54.00            | -20.42      | AV            | PASS   |
| H               | 9608.08         | 18.94          | 13.17         | 32.11                   | 54.00            | -21.89      | AV            | PASS   |
| H               | 12010.80        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H               | 14412.40        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |
| H               | 16814.99        | *              | *             | *                       | 54.00            | *           | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-25GHz)**

| Test Mode: GFSK |                 |                |               |                         | CH Middle: 2441 MHz |             |               |        |
|-----------------|-----------------|----------------|---------------|-------------------------|---------------------|-------------|---------------|--------|
| Pol.            | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)      | Margin (dB) | Detector Type | Result |
| V               | 4882.63         | 41.49          | 4.92          | 46.41                   | 74.00               | -27.60      | PK            | PASS   |
| V               | 7323.13         | 35.04          | 9.83          | 44.87                   | 74.00               | -29.14      | PK            | PASS   |
| V               | 9764.70         | 30.35          | 13.22         | 43.57                   | 74.00               | -30.43      | PK            | PASS   |
| V               | 12205.47        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| V               | 14646.43        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| V               | 17087.16        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| H               | 4882.07         | 41.10          | 4.92          | 46.02                   | 74.00               | -27.98      | PK            | PASS   |
| H               | 7323.78         | 33.45          | 9.83          | 43.28                   | 74.00               | -30.73      | PK            | PASS   |
| H               | 9764.52         | 30.23          | 13.22         | 43.45                   | 74.00               | -30.56      | PK            | PASS   |
| H               | 12205.99        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| H               | 14646.27        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| H               | 17087.77        | *              | *             | *                       | 74.00               | *           | PK            | PASS   |
| V               | 4882.97         | 31.69          | 4.92          | 36.61                   | 54.00               | -17.40      | AV            | PASS   |
| V               | 7323.64         | 23.31          | 9.83          | 33.14                   | 54.00               | -20.87      | AV            | PASS   |
| V               | 9764.57         | 19.29          | 13.22         | 32.51                   | 54.00               | -21.50      | AV            | PASS   |
| V               | 12205.53        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| V               | 14646.14        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| V               | 17087.16        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| H               | 4882.07         | 32.71          | 4.92          | 37.63                   | 54.00               | -16.38      | AV            | PASS   |
| H               | 7323.78         | 22.07          | 9.83          | 31.90                   | 54.00               | -22.11      | AV            | PASS   |
| H               | 9764.52         | 17.13          | 13.22         | 30.35                   | 54.00               | -23.65      | AV            | PASS   |
| H               | 12205.99        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| H               | 14646.27        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |
| H               | 17087.77        | *              | *             | *                       | 54.00               | *           | AV            | PASS   |

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

**Radiated Spurious Emission (1GHz-25GHz)**

| Test Mode: GFSK |                 |                |               |                         | CH High: 2480 MHz |             |               |        |
|-----------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol.            | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m)    | Margin (dB) | Detector Type | Result |
| V               | 4960.79         | 41.20          | 5.17          | 46.37                   | 74.00             | -27.64      | PK            | PASS   |
| V               | 7440.88         | 34.91          | 9.83          | 44.74                   | 74.00             | -29.27      | PK            | PASS   |
| V               | 9920.59         | 29.66          | 13.27         | 42.93                   | 74.00             | -31.07      | PK            | PASS   |
| V               | 12400.51        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| V               | 14880.20        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| V               | 17360.38        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| H               | 4960.59         | 41.65          | 5.17          | 46.82                   | 74.00             | -27.19      | PK            | PASS   |
| H               | 7440.32         | 33.43          | 9.83          | 43.26                   | 74.00             | -30.74      | PK            | PASS   |
| H               | 9920.06         | 29.96          | 13.27         | 43.23                   | 74.00             | -30.78      | PK            | PASS   |
| H               | 12400.06        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| H               | 14880.60        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| H               | 17360.20        | *              | *             | *                       | 74.00             | *           | PK            | PASS   |
| V               | 4960.83         | 31.36          | 5.17          | 36.53                   | 54.00             | -17.47      | AV            | PASS   |
| V               | 7440.03         | 22.23          | 9.83          | 32.06                   | 54.00             | -21.94      | AV            | PASS   |
| V               | 9920.55         | 19.57          | 13.27         | 32.84                   | 54.00             | -21.17      | AV            | PASS   |
| V               | 12400.07        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| V               | 14880.19        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| V               | 17360.41        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| H               | 4960.59         | 32.84          | 5.17          | 38.01                   | 54.00             | -15.99      | AV            | PASS   |
| H               | 7440.32         | 24.93          | 9.83          | 34.76                   | 54.00             | -19.25      | AV            | PASS   |
| H               | 9920.06         | 18.77          | 13.27         | 32.04                   | 54.00             | -21.97      | AV            | PASS   |
| H               | 12400.06        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| H               | 14880.60        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |
| H               | 17360.20        | *              | *             | *                       | 54.00             | *           | AV            | PASS   |

**Remark:**

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.
2. “\*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

## **ANNEX A TEST SETUP PHOTOS**

Please refer to the document “8228EU011509W-AA.PDF”

## **ANNEX B EXTERNAL PHOTOS**

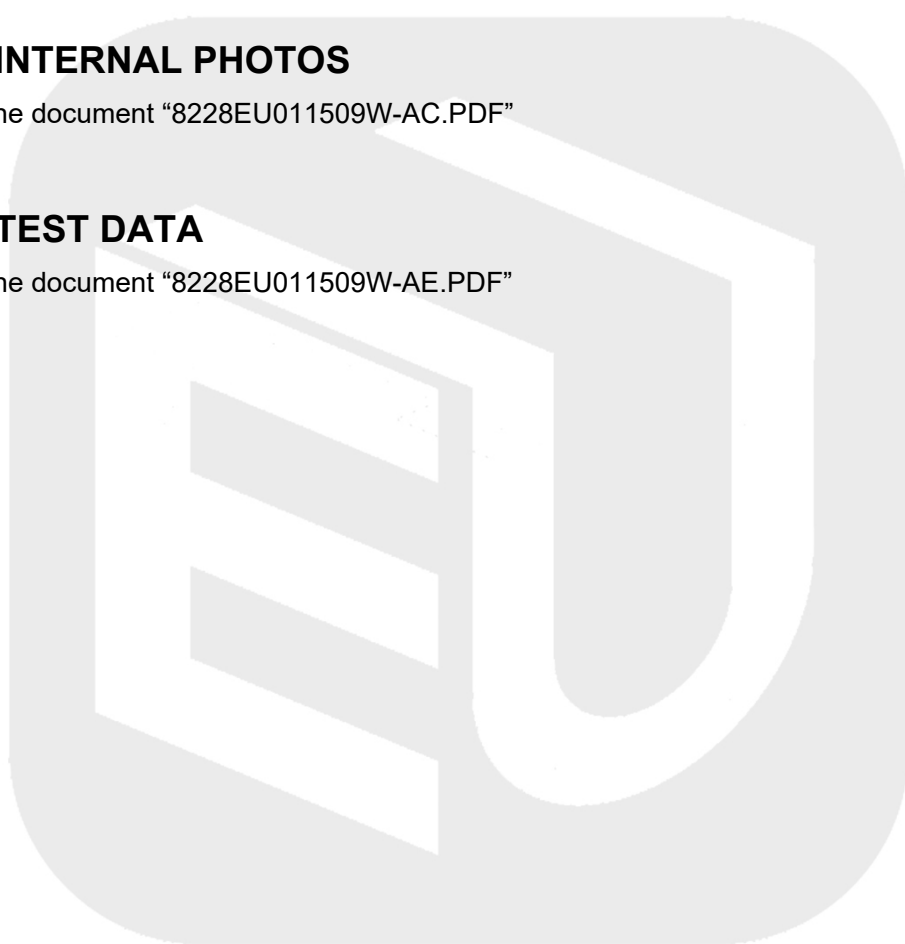
Please refer to the document “8228EU011509W-AB.PDF”

## **ANNEX C INTERNAL PHOTOS**

Please refer to the document “8228EU011509W-AC.PDF”

## **ANNEX D TEST DATA**

Please refer to the document “8228EU011509W-AE.PDF”



## STATEMENT

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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--- End of Report ---