

# TEST REPORT

Applicant Name : Shenzhen Topwise Communication Co.,Ltd  
Address : Floor5, Shengtang Mansion East Block, Tairan 9thRd,  
Shenzhen, China  
Report Number : 2504Q09049E-RF-00D  
FCC ID: 2BBKD-T6

## Test Standard (s)

FCC PART 15.407

## Sample Description

Product Type: Point of Sale Terminal  
Model No.: T6  
Trade Mark: TOPWISE  
Date Received: 2025-02-20  
Date of Test: 2025-02-25 to 2025-05-10  
Report Date: 2025-05-15

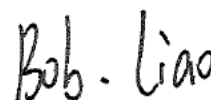
|              |                                            |
|--------------|--------------------------------------------|
| Test Result: | The EUT complied with the standards above. |
|--------------|--------------------------------------------|

### Prepared and Checked By:



Roger Ling  
EMC Engineer

### Approved By:



Bob Liao  
EMC Engineer

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| Rev.00          | 2504Q09049E-RF-00D | Original Report         | 2025-05-15       |

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

|                                                                                      |                                                                                       |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Product                                                                              | Point of Sale Terminal                                                                |
| Tested Model                                                                         | T6                                                                                    |
| Voltage Range <sup>#</sup>                                                           | DC 7.2V from battery<br>DC 5V from adapter or desktop charger                         |
| Adapter 1 Information <sup>#</sup>                                                   | Model:TPA-141A050200UU01<br>Input:100-240V~,50/60Hz,0.3A<br>Output:5.0V $\pm$ 2.0A    |
| Adapter 2 Information <sup>#</sup>                                                   | Model:PS10UA050K2000UU<br>Input:100-240V~,50/60Hz,0.35A Max<br>Output:5.0V $\pm$ 2.0A |
| Desktop Charger Information <sup>#</sup>                                             | Model: T6-BASE-Extension<br>Power: 5V $\pm$ 2A<br>Function: Charge + Data             |
| Note: The device comes with two adapters, a desktop charger and an USB cable (1.0m). |                                                                                       |

|                                             |                                                                                                                                   |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Frequency Range                             | 5G Wi-Fi: 5150-5250MHz; 5250-5350MHz; 5725-5850MHz                                                                                |
| Data Rate                                   | 802.11 a/n20/n40/ac20/ac40/ac80                                                                                                   |
| Maximum Conducted Output Power(AV)          | 16.22dBm(5150-5250MHz)                                                                                                            |
|                                             | 16.31dBm(5250-5350MHz)                                                                                                            |
|                                             | 15.4dBm(5725-5850MHz)                                                                                                             |
| Modulation Technique                        | OFDM                                                                                                                              |
| Antenna Specification <sup>#</sup>          | Internal Antenna<br>5150-5250MHz: 4.5 dBi<br>5250-5350MHz: 4.6 dBi<br>5725-5850MHz: 2.3 dBi<br>(It is provided by the applicant.) |
| Sample Serial Number                        | 2YOF-1 (CE&RE), 2YOF-2 (RF Conducted Test)<br>(Assigned by ATC, Shenzhen)                                                         |
| Sample/EUT Status                           | Good condition                                                                                                                    |
| Note: The device is belong a client device. |                                                                                                                                   |

## Objective

This type approval report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

## Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033D02 General U-NII Test Procedures New Rules v02r01.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

## Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA).The Certificate Number is 4297.01.

## Measurement Uncertainty

| Parameter                          |                 | Uncertainty            |
|------------------------------------|-----------------|------------------------|
| Occupied Channel Bandwidth         |                 | 5 %                    |
| RF Frequency                       |                 | $0.064 \times 10^{-7}$ |
| RF output power, conducted         |                 | 0.3 dB                 |
| Unwanted Emission, conducted       |                 | 1.2 dB                 |
| AC Power Lines Conducted Emissions |                 | 2.7 dB                 |
| Emissions,<br>Radiated             | 9kHz - 30MHz    | 2.1 dB                 |
|                                    | 30MHz - 1GHz    | 4.3 dB                 |
|                                    | 1GHz - 18GHz    | 4.9 dB                 |
|                                    | 18GHz - 26.5GHz | 5.2 dB                 |
|                                    | 26.5GHz - 40GHz | 4.6 dB                 |
| Temperature                        |                 | 1 °C                   |
| Humidity                           |                 | 7 %                    |
| Supply voltages                    |                 | 0.4 %                  |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

For 5150-5250MHz, 7 channels are provided to testing:

| Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 36      | 5180           | 40      | 5200           | 44      | 5220           | 48      | 5240           |
| 38      | 5190           | 42      | 5210           | 46      | 5230           | /       | /              |

For 802.11a/n20/ac20, Channel 36, 40 and 48 were tested.

For 802.11n40/ac40, Channel 38, 56 were tested.

For 802.11ac80, Channel 42 was tested.

For 5250-5350MHz, 7 channels are provided to testing:

| Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 52      | 5260           | 56      | 5280           | 60      | 5300           | 64      | 5320           |
| 54      | 5270           | 58      | 5290           | 62      | 5310           | /       | /              |

For 802.11a/n20/ac20, Channel 52, 56 and 64 were tested.

For 802.11n40/ac40, Channel 54, 62 were tested.

For 802.11 ac80, Channel 58 was tested.

For 5725-5850MHz, 8 channels are provided to testing:

| Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|---------|----------------|---------|----------------|---------|----------------|---------|----------------|
| 149     | 5745           | 153     | 5765           | 157     | 5785           | 161     | 5805           |
| 151     | 5755           | 155     | 5775           | 159     | 5795           | 165     | 5825           |

For 802.11a/n20/ac20, Channel 149, 157 and 165 were tested.

For 802.11n40/ac40, Channel 151 and 159 were tested.

For 802.11ac80, Channel 155 was tested.

#### Test Mode

The system was configured for testing in a typical fashion (as normally used by a typical user).

Test Mode 1: Charging by Adapter 1 + Transmitting

Test Mode 4: Charging by Desktop Charger(Adapter 2) + Transmitting + Data transfer

Note: According to BT report test result, tested the worst case(test mode 4) for AC Line Conducted Emissions and the worst case(test mode 1) for Radiated Spurious Emissions(Below 1GHz) in this report.

**EUT Exercise Software and Power Level<sup>#</sup>**

The system was configured for testing in an engineering mode, which was provided by manufacturer.

|                    |           |                                  |                |                 |
|--------------------|-----------|----------------------------------|----------------|-----------------|
| Exercise Software: |           | Testing in the engineering mode. |                |                 |
| For 5150-5250MHz:  |           |                                  |                |                 |
| Mode               | Data Rate | Power Level                      |                |                 |
|                    |           | Lowest Channel                   | Middle Channel | Highest Channel |
| 802.11 a           | 6Mbps     | 16                               | 16             | 16              |
| 802.11 n20         | MCS0      | 16                               | 16             | 16              |
| 802.11 n40         | MCS0      | 16                               | /              | 16              |
| 802.11 ac20        | MCS0      | 16                               | 16             | 16              |
| 802.11 ac40        | MCS0      | 16                               | /              | 16              |
| 802.11 ac80        | MCS0      | /                                | 12             | /               |
| For 5250-5350MHz:  |           |                                  |                |                 |
| Mode               | Data Rate | Power Level                      |                |                 |
|                    |           | Lowest Channel                   | Middle Channel | Highest Channel |
| 802.11 a           | 6Mbps     | 16                               | 16             | 16              |
| 802.11 n20         | MCS0      | 16                               | 16             | 16              |
| 802.11 n40         | MCS0      | 16                               | /              | 16              |
| 802.11 ac20        | MCS0      | 16                               | 16             | 16              |
| 802.11 ac40        | MCS0      | 16                               | /              | 16              |
| 802.11 ac80        | MCS0      | /                                | 16             | /               |
| For 5725-5850MHz:  |           |                                  |                |                 |
| Mode               | Data Rate | Power Level                      |                |                 |
|                    |           | Lowest Channel                   | Middle Channel | Highest Channel |
| 802.11 a           | 6Mbps     | 16                               | 16             | 16              |
| 802.11 n20         | MCS0      | 16                               | 16             | 16              |
| 802.11 n40         | MCS0      | 16                               | /              | 16              |
| 802.11 ac20        | MCS0      | 16                               | 16             | 16              |
| 802.11 ac40        | MCS0      | 16                               | /              | 16              |
| 802.11 ac80        | MCS0      | /                                | 16             | /               |

Note 1: The information in the above table is provided by the applicant.

Note 2: The worse-case data rates are determined to be as above for each mode based upon investigations by measuring the output power and PSD across all data rates, bandwidths and modulations.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

| Manufacturer | Description | Model   | Serial Number |
|--------------|-------------|---------|---------------|
| DELL         | Laptop      | XXJL-2  | FKLWV32       |
| Unknown      | SIM card    | Unknown | Unknown       |
| Kingston     | TF card     | 64G     | Unknown       |

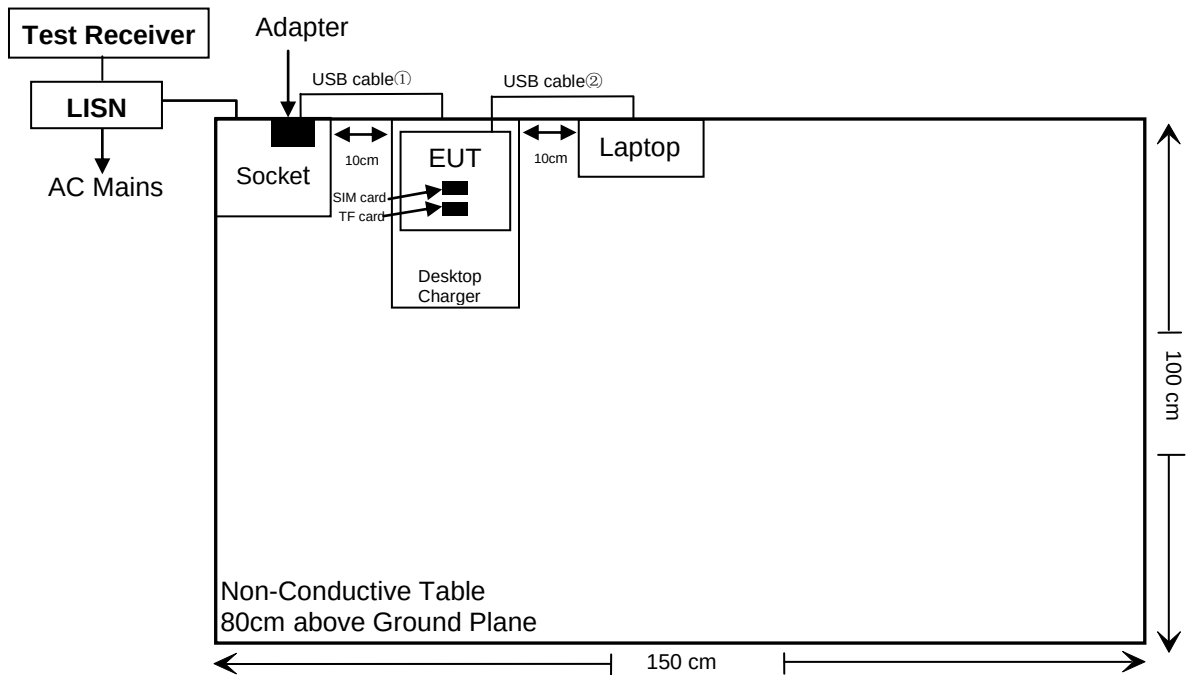
External I/O Cable

| Cable Description | Shielding Type | Length (m) | From Port | To                  |
|-------------------|----------------|------------|-----------|---------------------|
| USB Cable①        | NO             | 1.0        | Adapter   | EUT/Desktop Charger |
| USB Cable②        | NO             | 1.0        | EUT       | Laptop EUT          |

Block Diagram of Test Setup

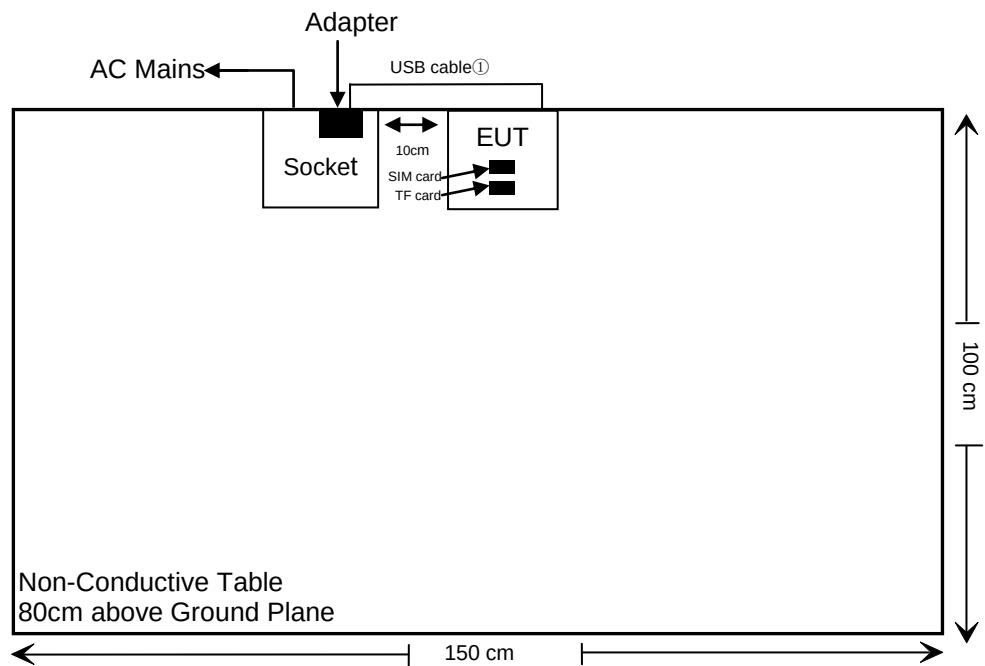
For Conducted Emission:

Test mode 4

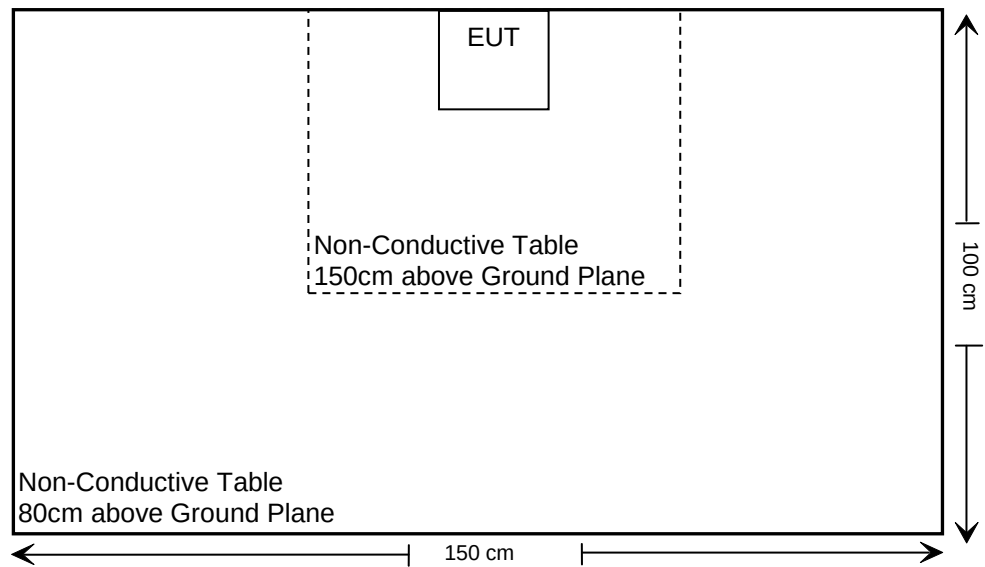


For Radiated Emission Below 1GHz:

Test mode 1



For Radiated Emission Above 1GHz:



## SUMMARY OF TEST RESULTS

| FCC Rules                                               | Description of Test                    | Result     |
|---------------------------------------------------------|----------------------------------------|------------|
| §2.1093                                                 | RF Exposure(SAR)                       | Compliance |
| §15.203                                                 | Antenna Requirement                    | Compliance |
| §15.407(b)(8) & §15.207(a)                              | Conducted Emissions                    | Compliance |
| §15.205 & §15.209 & §15.407(b) (1), (4), (8), (9), (10) | Undesirable Emission& Restricted Bands | Compliance |
| §15.407(a) (12), (e)                                    | Bandwidth                              | Compliance |
| §15.407(a) (1), (3)                                     | Conducted Transmitter Output Power     | Compliance |
| §15.407(a) (1), (3)                                     | Power Spectral Density                 | Compliance |

Note 1: For AC line conducted emissions, the maximum output power mode and channel was tested.

Note 2: For Radiated Spurious Emissions 9kHz~1GHz, the maximum output power mode and channel was tested.

Note 3: For Radiated Spurious Emissions, after pre-scan in the X, Y and Z axes of orientation, the worst case as setup photos was recorded.

Note 4: The cable loss is 0.5dB, which was added into the all RF test results.

**TEST EQUIPMENT LIST**

| Manufacturer                                       | Description                       | Model           | Serial Number | Calibration Date | Calibration Due Date |
|----------------------------------------------------|-----------------------------------|-----------------|---------------|------------------|----------------------|
| <b>Conducted Emissions Test</b>                    |                                   |                 |               |                  |                      |
| Rohde & Schwarz                                    | EMI Test Receiver                 | ESCI            | 100784        | 2024/11/08       | 2025/11/07           |
| Rohde & Schwarz                                    | L.I.S.N.                          | ENV216          | 101314        | 2024/11/08       | 2025/11/07           |
| Anritsu Corp                                       | 50 Coaxial Switch                 | MP59B           | 6100237248    | 2024/10/08       | 2025/10/07           |
| Rohde & Schwarz                                    | Pulse Limiter                     | ESH3-Z2         | 100312        | 2024/10/08       | 2025/10/07           |
| Unknown                                            | RF Coaxial Cable                  | No.17           | N0350         | 2024/10/08       | 2025/10/07           |
| Test Software: e3 191218 (V9)                      |                                   |                 |               |                  |                      |
| <b>Radiated Spurious Emission Test(Below 1GHz)</b> |                                   |                 |               |                  |                      |
| Rohde & Schwarz                                    | Test Receiver                     | ESR             | 102725        | 2024/11/08       | 2025/11/07           |
| SONOMA INSTRUMENT                                  | Amplifier                         | 310N            | 186131        | 2024/05/24       | 2025/05/23           |
| Schwarzbeck                                        | Bilog Antenna                     | VULB9163        | 9163-323      | 2024/08/08       | 2027/08/07           |
| Unknown                                            | RF Coaxial Cable                  | No.12           | N040          | 2024/10/08       | 2025/10/07           |
| Unknown                                            | RF Coaxial Cable                  | No.13           | N300          | 2024/10/08       | 2025/10/07           |
| Unknown                                            | RF Coaxial Cable                  | No.14           | N800          | 2024/10/08       | 2025/10/07           |
| BACL                                               | LOOP ANTENNA                      | 1313-1A         | 3110711       | 2024/01/16       | 2027/01/15           |
| Test Software: e3 191218 (V9)                      |                                   |                 |               |                  |                      |
| <b>Radiated Spurious Emission Test(Above 1GHz)</b> |                                   |                 |               |                  |                      |
| Rohde & Schwarz                                    | Spectrum Analyzer                 | FSV40           | 101949        | 2024/10/08       | 2025/10/07           |
| Decentest                                          | Filter Switch Unit                | DT7220FSU       | DQ77927       | 2024/10/08       | 2025/10/07           |
| Decentest                                          | Multiplex Switch Test Control Set | DT7220CSU       | DQ77924       | 2024/10/08       | 2025/10/07           |
| A.H. Systems, inc.                                 | Preamplifier                      | PAM-0118        | 226           | 2024/05/24       | 2025/05/23           |
| Schwarzbeck                                        | Horn Antenna                      | BBHA9120D       | 837           | 2023/02/22       | 2026/02/21           |
| Unknown                                            | RF Coaxial Cable                  | No.10           | N050          | 2024/10/08       | 2025/10/07           |
| Unknown                                            | RF Coaxial Cable                  | No.11           | N1000         | 2024/10/08       | 2025/10/07           |
| Unknown                                            | RF Coaxial Cable                  | No.19           | N500          | 2024/10/08       | 2025/10/07           |
| Schwarzbeck                                        | HORN ANTENNA                      | BBHA9170        | 9170-359      | 2023/12/12       | 2026/12/11           |
| BACL                                               | Amplifier                         | BACL-1313-A1840 | 4012521       | 2024/07/05       | 2025/07/04           |
| Unknown                                            | RF Coaxial Cable                  | No.15           | N600          | 2024/10/08       | 2025/10/07           |
| Unknown                                            | RF Coaxial Cable                  | No.16           | N650          | 2024/10/08       | 2025/10/07           |
| Test Software: e3 191218 (V9)                      |                                   |                 |               |                  |                      |

| Manufacturer                           | Description                 | Model    | Serial Number | Calibration Date | Calibration Due Date |
|----------------------------------------|-----------------------------|----------|---------------|------------------|----------------------|
| RF Conducted test                      |                             |          |               |                  |                      |
| Rohde & Schwarz                        | Spectrum Analyzer           | FSV-40   | 101948        | 2024/10/08       | 2025/10/07           |
| Anritsu                                | Microwave Peak Power Sensor | MA24418A | 12619         | 2024/05/24       | 2025/05/23           |
| WEINSCHEL                              | 10dB Attenuator             | 5324     | AU 3842       | 2024/10/08       | 2025/10/07           |
| Test Software: JDAutoTestSystem V1.0.0 |                             |          |               |                  |                      |

**\* Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

**RF EXPOSURE**

---

**Applicable Standard**

FCC§1.1310 and §2.1093.

**Test Result**

Please refer to the SAR report number: 2503Q09049E-SA.

## FCC §15.203-ANTENNA REQUIREMENT

### Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

Antenna must be permanently attached to the unit.

Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### Antenna Connector Construction

The EUT has one internal antenna arrangement, which were permanently attached to the EUT, fulfill the requirement of this section. Please refer to the EUT photos.

| Frequency Range | Antenna gain |
|-----------------|--------------|
| 5150-5250MHz    | 4.5dBi       |
| 5250-5350MHz    | 4.6dBi       |
| 5725-5850MHz    | 2.3dBi       |

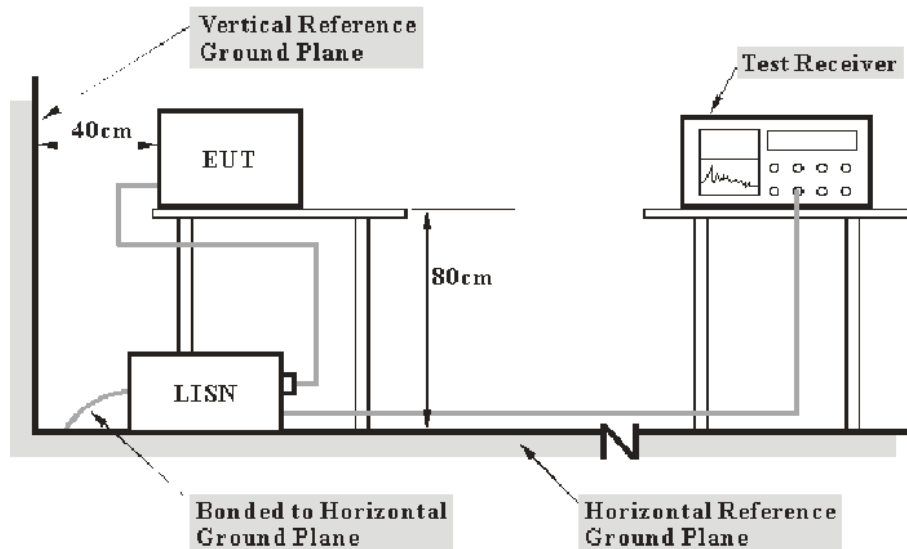
**Result:** Compliance.

## FCC §15.407 (B) (8) §15.207 (A)-CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207, §15.407(b) (8)

### EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

### Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

## Calculation

The Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Limiter Attenuation. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss} + 10\text{dB Attenuation(Limiter)}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

$$\text{Level} = \text{Read Level} + \text{Factor}$$

## Test Data

### Environmental Conditions

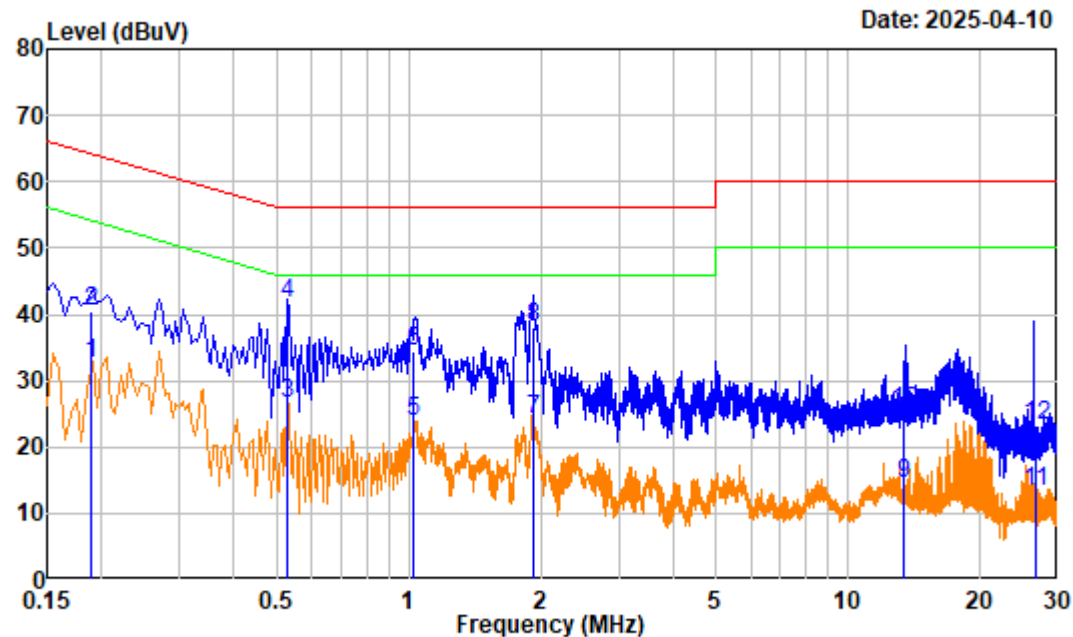
|                     |                      |
|---------------------|----------------------|
| Temperature:        | 23.4 °C              |
| Relative Humidity:  | 52 %                 |
| ATM Pressure:       | 101.3 kPa            |
| Test Engineer:      | Jason Fan            |
| Test Date:          | 2025-04-10           |
| EUT Operation Mode: | 5G WIFI Transmitting |

**Test Result:** Compliance, please refer to the below data.

*Note: The maximum output power mode and channel: 5G WIFI 802.11n40 62 Channel was tested.*

For Test Mode 4

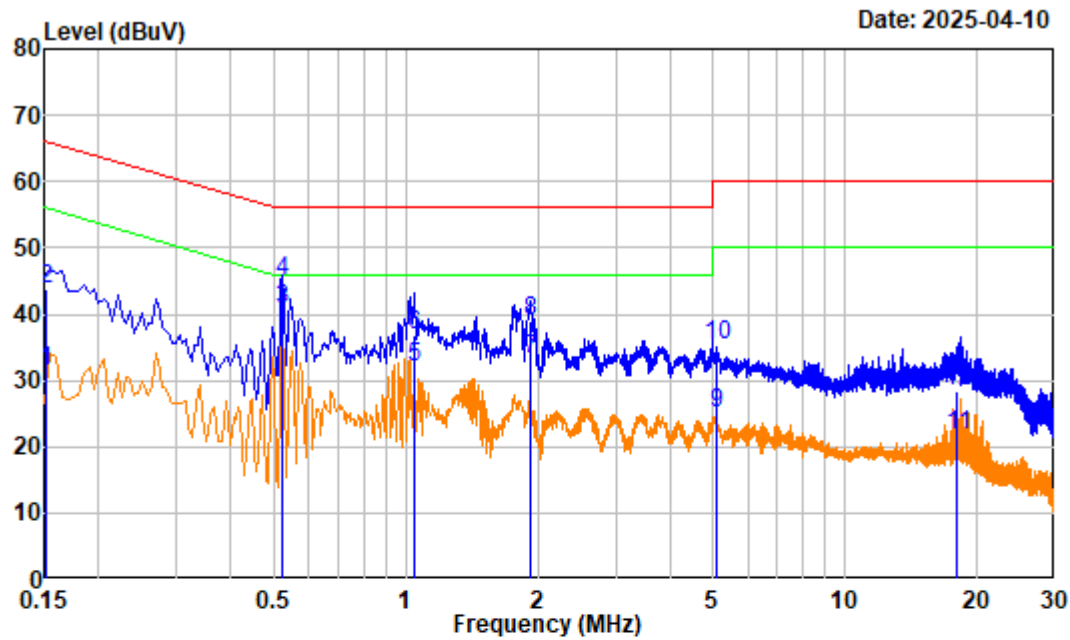
AC 120V/60Hz, Line:



Site : Shielding Room  
Condition: Line  
Job No. : 2504Q09049E-RF  
Test Mode: 5G WIFI transmitting  
Tester : Jason Fan Note:mode 4#  
Setting : IF B/W 9kHz PK/AV

|    | Freq   | Factor | Read Level | Level | Limit Line | Over Limit | Remark  |
|----|--------|--------|------------|-------|------------|------------|---------|
|    | MHz    | dB     | dBuV       | dBuV  | dBuV       | dB         |         |
| 1  | 0.190  | 20.28  | 12.29      | 32.57 | 54.05      | -21.48     | Average |
| 2  | 0.190  | 20.28  | 20.30      | 40.58 | 64.05      | -23.47     | QP      |
| 3  | 0.528  | 20.18  | 6.45       | 26.63 | 46.00      | -19.37     | Average |
| 4  | 0.528  | 20.18  | 21.59      | 41.77 | 56.00      | -14.23     | QP      |
| 5  | 1.026  | 20.71  | 3.24       | 23.95 | 46.00      | -22.05     | Average |
| 6  | 1.026  | 20.71  | 13.72      | 34.43 | 56.00      | -21.57     | QP      |
| 7  | 1.922  | 20.71  | 3.30       | 24.01 | 46.00      | -21.99     | Average |
| 8  | 1.922  | 20.71  | 17.29      | 38.00 | 56.00      | -18.00     | QP      |
| 9  | 13.432 | 19.83  | -5.48      | 14.35 | 50.00      | -35.65     | Average |
| 10 | 13.432 | 19.83  | 5.62       | 25.45 | 60.00      | -34.55     | QP      |
| 11 | 26.625 | 19.90  | -6.55      | 13.35 | 50.00      | -36.65     | Average |
| 12 | 26.625 | 19.90  | 3.37       | 23.27 | 60.00      | -36.73     | QP      |

## AC 120V/60Hz, Neutral:



Site : Shielding Room  
 Condition: neutral  
 Job No. : 2504Q09049E-RF  
 Test Mode: 5G WIFI transmitting  
 Tester : Jason Fan Note:mode 4#  
 Setting : IF B/W 9kHz PK/AV

|    | Freq   | Factor | Read<br>Level | Level | Limit<br>Line | Over<br>Limit | Remark  |
|----|--------|--------|---------------|-------|---------------|---------------|---------|
|    | MHz    | dB     | dBuV          | dBuV  | dBuV          | dB            |         |
| 1  | 0.152  | 20.30  | 11.12         | 31.42 | 55.91         | -24.49        | Average |
| 2  | 0.152  | 20.30  | 23.48         | 43.78 | 65.91         | -22.13        | QP      |
| 3  | 0.525  | 20.46  | 20.31         | 40.77 | 46.00         | -5.23         | Average |
| 4  | 0.525  | 20.46  | 24.42         | 44.88 | 56.00         | -11.12        | QP      |
| 5  | 1.050  | 20.67  | 11.23         | 31.90 | 46.00         | -14.10        | Average |
| 6  | 1.050  | 20.67  | 16.02         | 36.69 | 56.00         | -19.31        | QP      |
| 7  | 1.920  | 20.15  | 13.07         | 33.22 | 46.00         | -12.78        | Average |
| 8  | 1.920  | 20.15  | 18.87         | 39.02 | 56.00         | -16.98        | QP      |
| 9  | 5.105  | 20.62  | 4.35          | 24.97 | 50.00         | -25.03        | Average |
| 10 | 5.105  | 20.62  | 14.71         | 35.33 | 60.00         | -24.67        | QP      |
| 11 | 18.026 | 20.31  | 1.45          | 21.76 | 50.00         | -28.24        | Average |
| 12 | 18.026 | 20.31  | 8.20          | 28.51 | 60.00         | -31.49        | QP      |

## FCC §15.205 & §15.209 & §15.407(B) (1), (4), (8), (9), (10)-UNDESIRABLE EMISSION

### Applicable Standard

FCC §15.407 (b) (1), (4), (8), (9), (10); §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b) (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

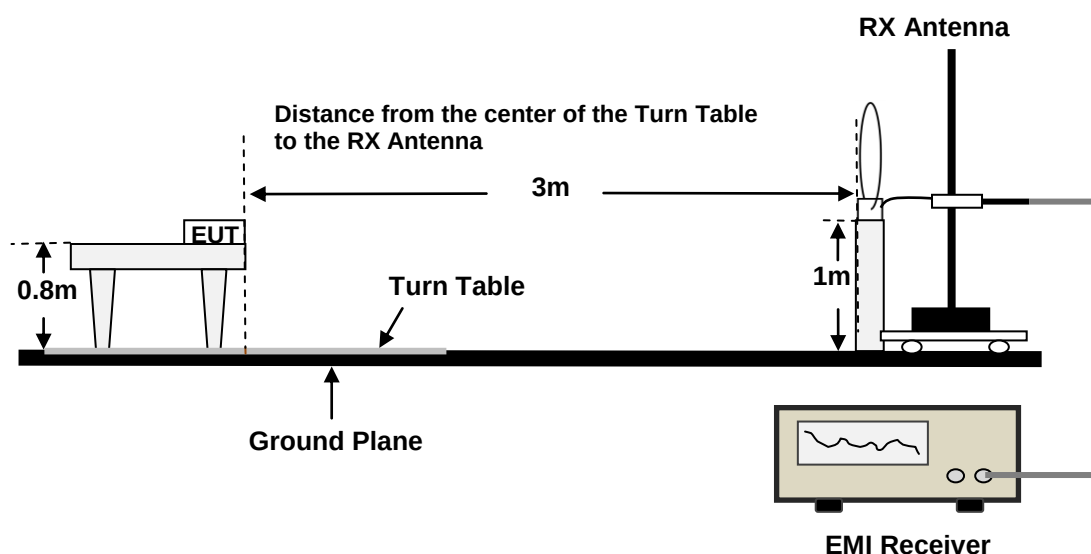
(4) For transmitters operating in the 5.725-5.85 GHz band:

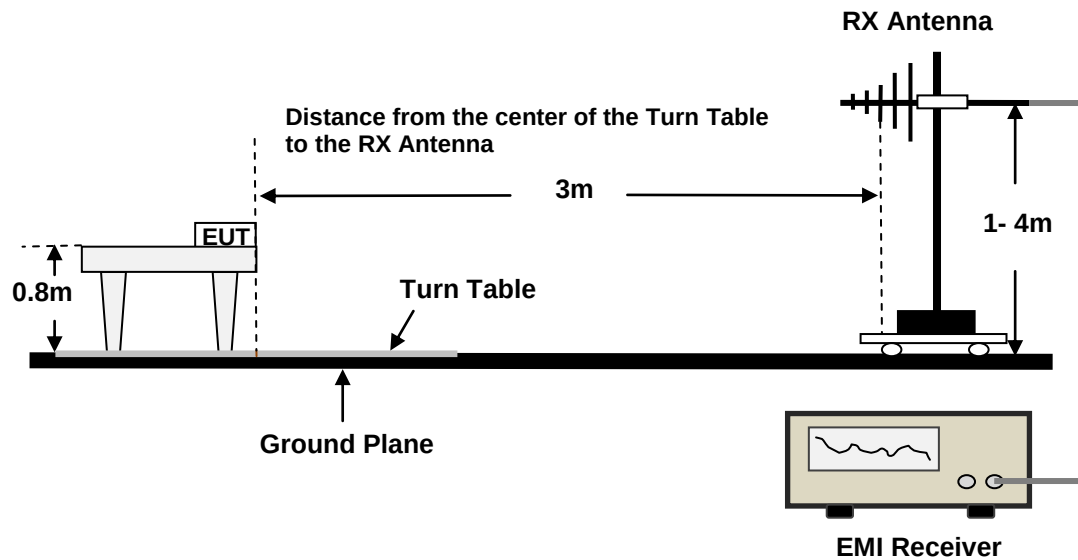
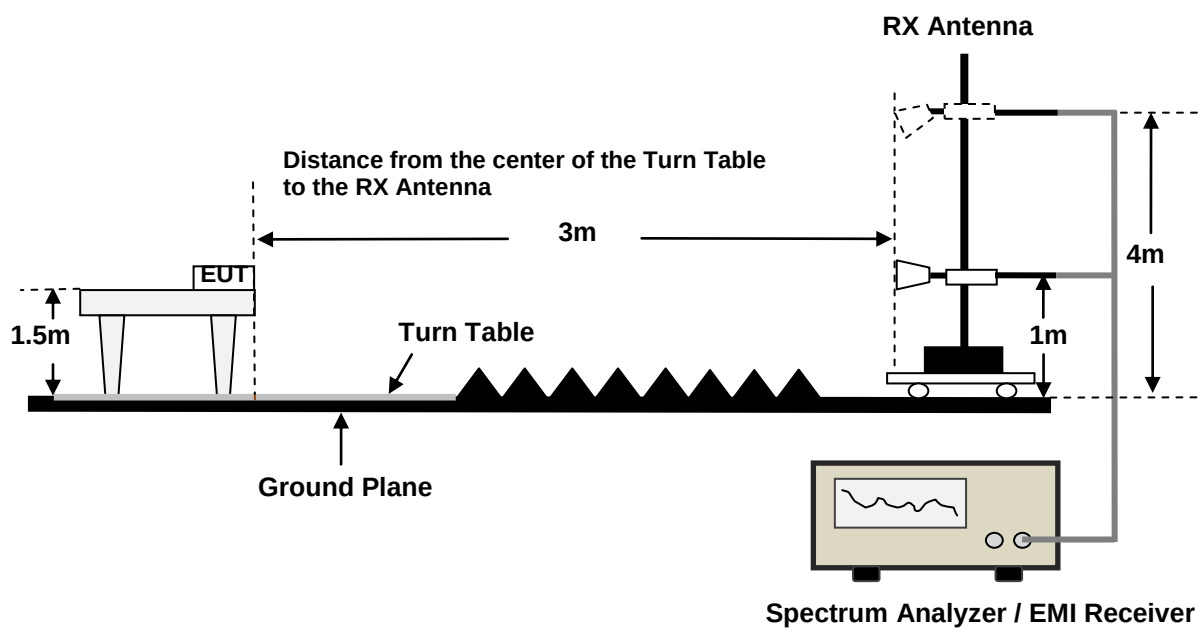
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

### EUT Setup

9kHz - 30MHz:



**30MHz - 1GHz:****Above 1GHz:**

Boundary of the EUT, local AE and associated cabling and measurement distance for radiated emissions measurements:

The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and the calibration point of the antenna. See as below Figure C.1 and C.2.

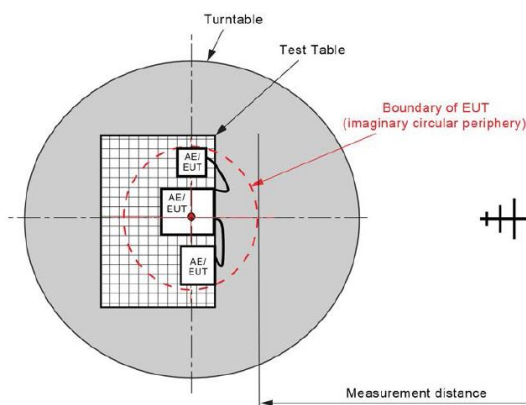


Figure C.1 – Measurement distance

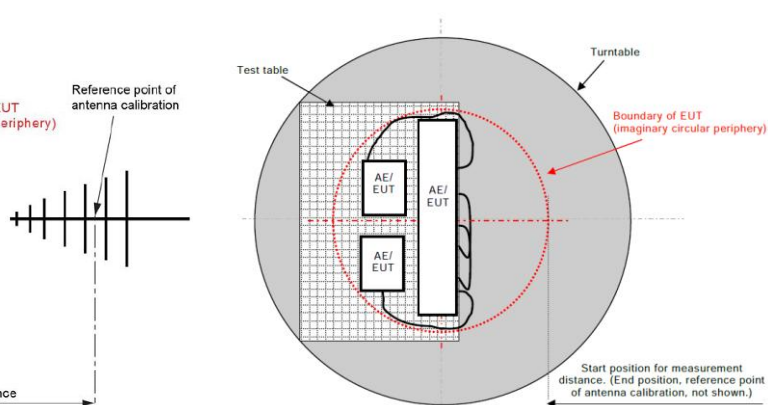


Figure C.2 – Boundary of EUT, Local AE and associated cabling

The radiated emission performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, FCC 15.407 limits.

## EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz - 1000MHz:

| Frequency Range | Measurement | RBW    | Video B/W | IF B/W | Detector |
|-----------------|-------------|--------|-----------|--------|----------|
| 9kHz - 150kHz   | PK          | 0.3kHz | 1kHz      | /      | PK       |
|                 | QP/AV       | /      | /         | 200Hz  | QP/AV    |
| 150kHz - 30MHz  | PK          | 10kHz  | 30kHz     | /      | PK       |
|                 | QP/AV       | /      | /         | 9kHz   | QP/AV    |
| 30MHz - 1000MHz | PK          | 100kHz | 300kHz    | /      | PK       |
|                 | QP          | /      | /         | 120kHz | QP       |

1GHz -40GHz:

Pre-scan:

| Measurement | Detector | Duty cycle | RBW  | Video B/W                |
|-------------|----------|------------|------|--------------------------|
| PK          | Peak     | Any        | 1MHz | 3MHz                     |
| Ave.        | Peak     | >98%       | 1MHz | 3kHz                     |
|             |          | <98%       | 1MHz | ≥1/T, no less than 5 kHz |

Final measurement for emission identified during the pre-scan:

| Measurement | Detector | Duty cycle | RBW  | Video B/W |
|-------------|----------|------------|------|-----------|
| PK          | Peak     | Any        | 1MHz | 3MHz      |
| Ave.        | Peak     | >98%       | 1MHz | 3kHz      |
|             |          | <98%       | 1MHz | ≥1/T      |

Note 1: T is minimum transmission duration

Note 2: Fundamental test with Filter Switch Unit.

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

According to ANSI C63.10-2020, 9.2: For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance).

$$E_{SpecLimit} = E_{Meas} + 20 \log \left( \frac{D_{Meas}}{D_{SpecLimit}} \right)$$

where

|                 |                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------|
| $E_{SpecLimit}$ | is the field strength of the emission at the distance specified by the limit, in dBuV/m |
| $E_{Meas}$      | is the field strength of the emission at the measurement distance, in dBuV/m            |
| $D_{Meas}$      | is the measurement distance, in m                                                       |
| $D_{SpecLimit}$ | is the distance specified by the limit, in m                                            |

Note 1: If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Note 2: For above 1GHz, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

## Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level / Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data

9kHz-1GHz

Environmental Conditions

|                     |                          |
|---------------------|--------------------------|
| Temperature:        | 22.1 to 24.2 °C          |
| Relative Humidity:  | 48 to 54 %               |
| ATM Pressure:       | 100.2- to 01.3 kPa       |
| Test Engineer:      | Matt Liang               |
| Test Date:          | 2025-04-11 to 2025-05-10 |
| EUT Operation Mode: | 5G WIFI Transmitting     |

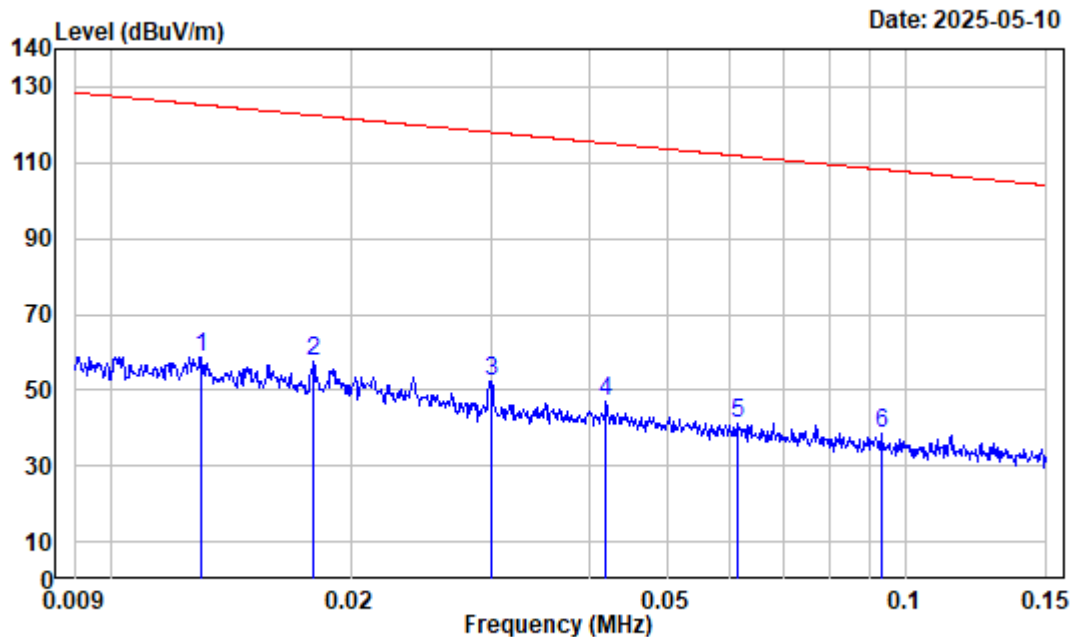
Test Result: Compliance, please refer to the below data.

*Note 1: The Loop Antenna were tested in parallel, perpendicular, and ground-parallel. The worst orientation was parallel the data was recorded in report.*

*Note 2: The maximum output power mode and channel: 5G WIFI 802.11n40 62 Channel was tested.*

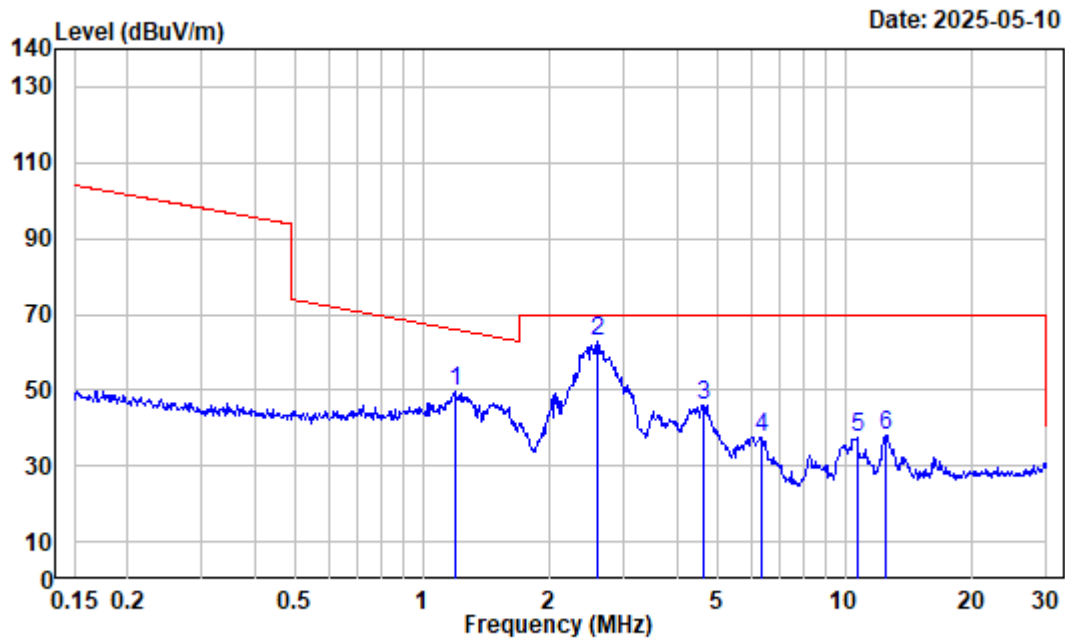
For Teat Mode 1

9kHz~30MHz:



Site : Chamber  
Condition : 3m  
Project No. : 2504Q09049E-RF      Tester: Matt Liang  
Test Mode : 5G WIFI Transmitting  
Polarization : Parallel  
Note : Test Mode 1  
Receiver Setting: RBW:300Hz VBW:1kHz

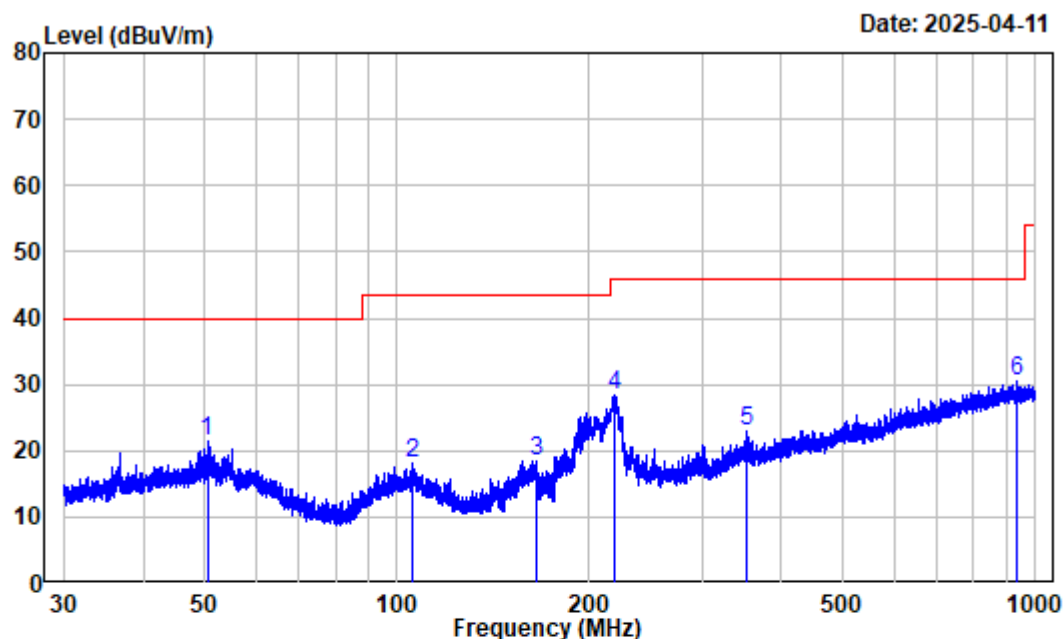
|   | Freq   |       | Read  |        | Limit  | Over   | Remark |
|---|--------|-------|-------|--------|--------|--------|--------|
|   | Factor |       | Level | Level  | Line   | Limit  |        |
|   | MHz    | dB/m  | dBuV  | dBuV/m | dBuV/m | dB     |        |
| 1 | 0.013  | 34.51 | 24.10 | 58.61  | 125.34 | -66.73 | Peak   |
| 2 | 0.018  | 32.28 | 25.20 | 57.48  | 122.51 | -65.03 | Peak   |
| 3 | 0.030  | 26.92 | 25.48 | 52.40  | 118.04 | -65.64 | Peak   |
| 4 | 0.042  | 24.47 | 22.45 | 46.92  | 115.15 | -68.23 | Peak   |
| 5 | 0.061  | 21.17 | 20.18 | 41.35  | 111.83 | -70.48 | Peak   |
| 6 | 0.093  | 17.15 | 21.38 | 38.53  | 108.21 | -69.68 | Peak   |



Site : Chamber  
Condition : 3m  
Project No. : 2504Q09049E-RF      Tester: Matt Liang  
Test Mode : 5G WIFI Transmitting  
Polarization : Parallel  
Note : Test Mode 1  
Receiver Setting: RBW:10kHz VBW:30kHz

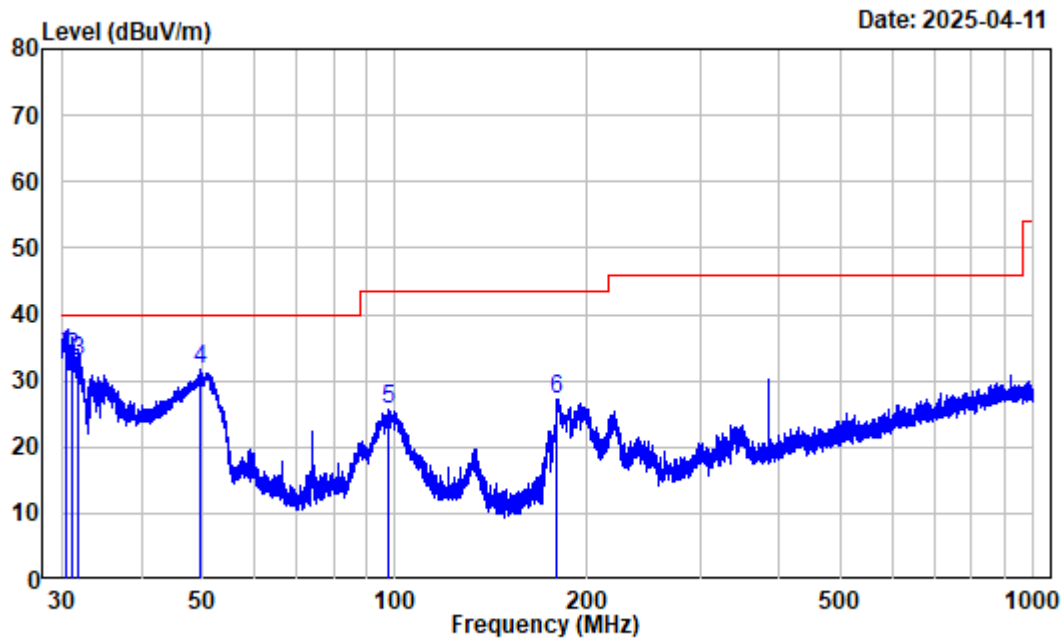
|   | Freq Factor |       | Read Level | Limit Level | Over Limit | Remark      |
|---|-------------|-------|------------|-------------|------------|-------------|
|   | MHz         | dB/m  | dBuV       | dBuV/m      | dBuV/m     | dB          |
| 1 | 1.191       | -2.53 | 52.26      | 49.73       | 65.92      | -16.19 Peak |
| 2 | 2.608       | -5.65 | 68.70      | 63.05       | 69.54      | -6.49 Peak  |
| 3 | 4.647       | -6.30 | 52.38      | 46.08       | 69.54      | -23.46 Peak |
| 4 | 6.386       | -6.13 | 43.79      | 37.66       | 69.54      | -31.88 Peak |
| 5 | 10.676      | -5.19 | 42.69      | 37.50       | 69.54      | -32.04 Peak |
| 6 | 12.449      | -4.75 | 42.76      | 38.01       | 69.54      | -31.53 Peak |

## 30MHz~1GHz:



Site : Chamber  
Condition : 3m HORIZONTAL  
Project No. : 2504Q09049E-RF Tester: Matt Liang  
Test Mode : 5G WIFI Transmitting  
Note : Test Mode 1  
Receiver Setting: RBW:100kHz VBW:300kHz

|   | Freq    | Factor | Read<br>Level | Level  | Limit<br>Line | Over<br>Limit | Remark |
|---|---------|--------|---------------|--------|---------------|---------------|--------|
|   | MHz     | dB/m   | dBuV          | dBuV/m | dBuV/m        | dB            |        |
| 1 | 50.387  | -10.46 | 31.80         | 21.34  | 40.00         | -18.66        | Peak   |
| 2 | 105.503 | -11.64 | 29.70         | 18.06  | 43.50         | -25.44        | Peak   |
| 3 | 164.980 | -14.45 | 33.00         | 18.55  | 43.50         | -24.95        | Peak   |
| 4 | 219.749 | -11.14 | 39.46         | 28.32  | 46.00         | -17.68        | Peak   |
| 5 | 353.408 | -7.68  | 30.54         | 22.86  | 46.00         | -23.14        | Peak   |
| 6 | 937.188 | 0.89   | 29.64         | 30.53  | 46.00         | -15.47        | Peak   |



Site : Chamber  
Condition : 3m VERTICAL  
Project No. : 2504Q09049E-RF      Tester: Matt Liang  
Test Mode : 5G WIFI Transmitting  
Note : Test Mode 1  
Receiver Setting: RBW:100kHz VBW:300kHz

| Freq Factor |                | Read Level | Level  | Limit Line | Over Limit | Remark |
|-------------|----------------|------------|--------|------------|------------|--------|
| MHz         | dB/m           | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1           | 30.424 -12.50  | 46.55      | 34.05  | 40.00      | -5.95      | QP     |
| 2           | 31.193 -12.61  | 46.13      | 33.52  | 40.00      | -6.48      | QP     |
| 3           | 31.871 -12.60  | 45.61      | 33.01  | 40.00      | -6.99      | QP     |
| 4           | 49.598 -10.39  | 42.23      | 31.84  | 40.00      | -8.16      | Peak   |
| 5           | 97.499 -12.40  | 38.12      | 25.72  | 43.50      | -17.78     | Peak   |
| 6           | 179.544 -13.14 | 40.38      | 27.24  | 43.50      | -16.26     | Peak   |

1GHz-40GHz: please refer to the Appendix.

## FCC §15.407(a)(e)-BANDWIDTH

### Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### Test Procedure

According to KDB789033 D02 section II.C. and section II.D.

#### 1. Emission Bandwidth (EBW)

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

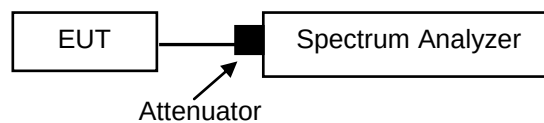
#### 3. 99% Occupied Bandwidth

The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. Measurement of the 99% occupied bandwidth is *required* only as a condition for using the optional bandedge measurement techniques described in II.G.3.d). Measurements of 99% occupied bandwidth may also optionally be used in lieu of the EBW to define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with Section 15.407(a).

The following procedure shall be used for measuring (99%) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1% to 5% of the OBW
4. Set VBW  $\geq 3 \times$  RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Note: For devices that use channel aggregation refer to III.A and III.C for determining 99% bandwidth.



## Test Data

Please refer to the Appendix.

## FCC §15.407(a) (1) (3)-CONDUCTED TRANSMITTER OUTPUT POWER

### Applicable Standard

For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

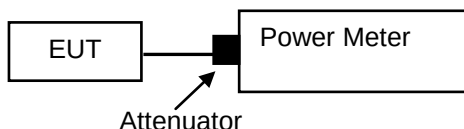
For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### Test Procedure

According to KDB789033 D02 section II.E.3.a).

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



### Test Data

Please refer to the Appendix.

## **FCC §15.407(a) (1) (3)-POWER SPECTRAL DENSITY**

### **Applicable Standard**

For an indoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

For client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

## Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

### Duty cycle $\geq 98\%$

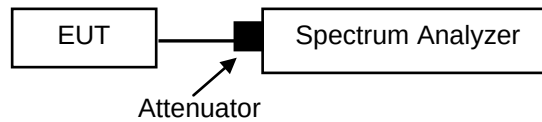
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

### Duty cycle $< 98\%$ , duty cycle variations are less than $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

### Duty cycle $< 98\%$ , duty cycle variations exceed $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.



## Test Data

Please refer to the Appendix.

APPENDIX

| Frequency band                                     | Remark                                                                                             |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Radiated Spurious Emissions Above 1GHz Test Result | Refer to 2504Q09049E-RF-00D-Appendix A-5G WIFI(Radiated Spurious Emissions Above 1GHz Test Result) |
| RF Conducted Test Result                           | Refer to 2504Q09049E-RF-00D-Appendix B-5G WIFI(RF Conducted Test Result)                           |

## EXHIBIT A-EUT PHOTOGRAPHS

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Please refer to the Attachment: 2504Q09049E-RF EUT EXTERNAL PHOTOGRAPHS and 2504Q09049E-RF EUT INTERNAL PHOTOGRAPHS.

## EXHIBIT B-TEST SETUP PHOTOGRAPHS

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Please refer to the Attachment: 2504Q09049E-RF-00D TEST SETUP PHOTOGRAPHS.

\*\*\*\*\* END OF REPORT \*\*\*\*\*