

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**EUT Description** Outdoor camera

**Applicant:** Immedia Semiconductor LLC.  
100 Riverpark Drive, Suite 125 North Reading, MA 01864,  
United States of America

**Manufacturer:** Immedia Semiconductor LLC.  
100 Riverpark Drive, Suite 125 North Reading, MA 01864,  
United States of America

**Brand Name:** blink

**Model No.:** BCM00500U

**ISED HVIN:** BCM00501U

**ISED PMN:** BCM00500U

**Report Number:** TERF2504001597E2

**FCC ID** 2AF77-H2211810

**IC:** 20741-H2211810

**Date of EUT Received:** April 30, 2025

**Date of Test:** May 5, 2025~May 19, 2025

**Issue Date:** July 2, 2025

Approved By \_\_\_\_\_

Jay Lin

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISCED RSS-247.

The results of this report relate only to the sample identified in this report.

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## Revision History

| Report Number    | Revision | Description                                                  | Issue Date   | Revised By | Remark |
|------------------|----------|--------------------------------------------------------------|--------------|------------|--------|
| TERF2504001597E2 | 00       | FCC C2PC / ISED C3PC for the replacement of the 900MHz RFIC. | Jul. 2, 2025 | Candice Li |        |
|                  |          |                                                              |              |            |        |
|                  |          |                                                              |              |            |        |
|                  |          |                                                              |              |            |        |
|                  |          |                                                              |              |            |        |
|                  |          |                                                              |              |            |        |
|                  |          |                                                              |              |            |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                                 |                         |
|---------------------------------|-------------------------|
| EUT Description                 | Outdoor camera          |
| Brand Name:                     | blink                   |
| Model No.:                      | BCM00500U               |
| ISED HVIN:                      | BCM00501U               |
| Hardware Version:               | PVT                     |
| Firmware Version:               | N/A                     |
| EUT Series No.:                 | GNT2-CV01               |
| Power Supply:                   | 3 Vdc from AA Battery*2 |
| Test Software<br>(Name/Version) | Tera Trem V4.106        |

### 1.2 RF Specification

#### WLAN 2.4GHz

| Mode             | Frequency Range | Channels                                          | Rated Power (dBm) |       | Modulation Technology |
|------------------|-----------------|---------------------------------------------------|-------------------|-------|-----------------------|
|                  |                 |                                                   | Peak              | Avg.  |                       |
| 802.11b          | 2412~2462       | 11                                                | 21.51             | 18.56 | CCK                   |
| 802.11g          | 2412~2462       | 11                                                | 25.55             | 18.22 | OFDM                  |
| 802.11n_HT20     | 2412~2462       | 11                                                | 25.89             | 18.01 | OFDM                  |
| Modulation type: |                 | DQPSK, DBPSK for CCK in 802.11b                   |                   |       |                       |
|                  |                 | 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n |                   |       |                       |
| Data Rate:       |                 | 802.11b: 1/2/5.5/11 Mbps                          |                   |       |                       |
|                  |                 | 802.11g: 6/9/12/18/24/36/48/54 Mbps               |                   |       |                       |
|                  |                 | 802.11n_HT20: up to 72.2Mbps                      |                   |       |                       |

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### WLAN 2.4GHz for IC

| Mode             | Frequency Range | Channels                                          | Rated Power (dBm) |       | Rated Power in dBm (EIRP) | Modulation Technology |
|------------------|-----------------|---------------------------------------------------|-------------------|-------|---------------------------|-----------------------|
|                  |                 |                                                   | Peak              | Avg.  |                           |                       |
| 802.11b          | 2412~2462       | 11                                                | 21.51             | 18.56 | 23.16                     | CCK                   |
| 802.11g          | 2412~2462       | 11                                                | 25.55             | 18.22 | 22.82                     | OFDM                  |
| 802.11n_HT20     | 2412~2462       | 11                                                | 25.89             | 18.01 | 22.61                     | OFDM                  |
| Modulation type: |                 | DQPSK, DBPSK for CCK in 802.11b                   |                   |       |                           |                       |
|                  |                 | 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11g, 11n |                   |       |                           |                       |
| Data Rate:       |                 | 802.11b: 1/2/5.5/11 Mbps                          |                   |       |                           |                       |
|                  |                 | 802.11g: 6/9/12/18/24/36/48/54 Mbps               |                   |       |                           |                       |
|                  |                 | 802.11n_HT20: up to 72.2Mbps                      |                   |       |                           |                       |

### 1.3 Antenna Designation

| Antenna Type | Supplier                   | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|----------------------------|------------------|-------------|-------------------------|
| Monopole     | Immedia Semiconductor LLC. | BCM00500U        | 2412~2462   | 4.60                    |

**Note:** The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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## 1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

RSS-247 issue 3 Aug. 2023

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

ANSI C63.10:2013

## 1.5 Test Facility

| Laboratory                                            | Test Site Address                                                                               | Test Site Name | FCC Designa-<br>tion number | IC CAB<br>identifier |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|-----------------------------|----------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | No.134, Wu Kung Road, New Taipei<br>Industrial Park, Wuku District, New<br>Taipei City, Taiwan. | SAC 1          | TW0027                      | TW3702               |
|                                                       |                                                                                                 | SAC 2          |                             |                      |
|                                                       |                                                                                                 | SAC 3          |                             |                      |
|                                                       |                                                                                                 | Conduction 1   |                             |                      |
|                                                       |                                                                                                 | Conducted 1    |                             |                      |
|                                                       |                                                                                                 | Conducted 2    |                             |                      |
|                                                       |                                                                                                 | Conducted 3    |                             |                      |
|                                                       |                                                                                                 | Conducted 4    |                             |                      |
|                                                       |                                                                                                 | Conducted 5    |                             |                      |
|                                                       |                                                                                                 | Conducted 6    |                             |                      |
|                                                       | No.2, Keji 1st Rd., Guishan District,<br>Taoyuan City, Taiwan 333                               | Conduction C   | TW0028                      |                      |
|                                                       |                                                                                                 | SAC C          |                             |                      |
|                                                       |                                                                                                 | SAC D          |                             |                      |
|                                                       |                                                                                                 | SAC G          |                             |                      |
|                                                       |                                                                                                 | Conducted A    |                             |                      |
|                                                       |                                                                                                 | Conducted B    |                             |                      |
|                                                       |                                                                                                 | Conducted C    |                             |                      |
|                                                       |                                                                                                 | Conducted D    |                             |                      |
|                                                       |                                                                                                 | Conducted E    |                             |                      |
|                                                       |                                                                                                 | Conducted F    |                             |                      |
| Conducted G                                           |                                                                                                 |                |                             |                      |

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

|                |             |    |                    |            |   |
|----------------|-------------|----|--------------------|------------|---|
| Temperature:   | 22.5        | °C | Relative Humidity: | 60         | % |
| Test site      | Conducted C |    | Test Start:        | 05/08/2025 |   |
| Test Engineer: | Joey You    |    | Test Done:         | 05/08/2025 |   |

## 1.6 Special Accessories

There are no special accessories used while test was conducted.

## 1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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## 2.4 Measurement Results Explanation Example

### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

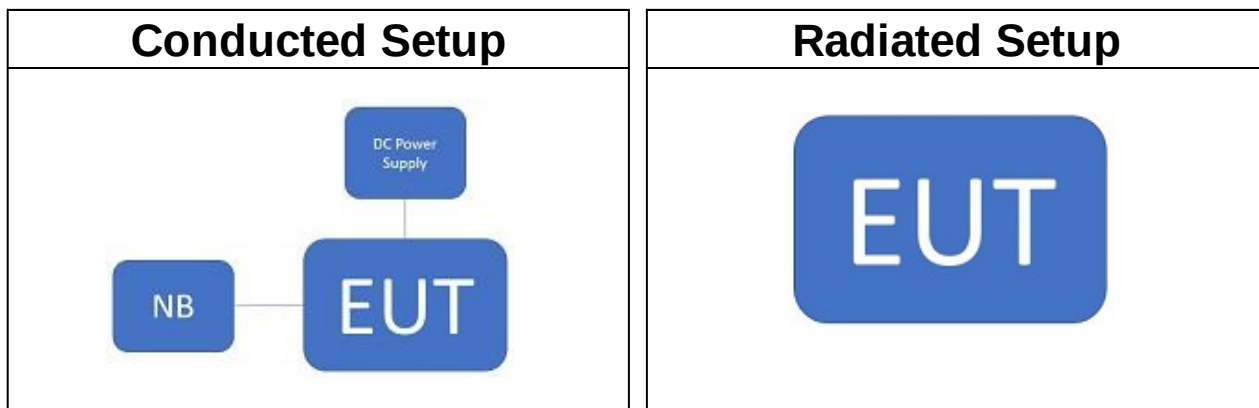
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### 2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

## 2.5 Test Configuration



## 2.6 Control Unit(s)

| Conducted Emission Test Site: Conducted C |        |              |               |                           |                          |
|-------------------------------------------|--------|--------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR    | MODEL NUMBER | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| USB Cable                                 | N/A    | N/A          | P0003332      | N/A                       | N/A                      |
| Notebook                                  | Lenovo | T14          | P0003332      | N/A                       | N/A                      |

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### 3 SUMMARY OF TEST RESULTS

| FCC Rules             | ISED Rules     | Description Of Test              | Result    |
|-----------------------|----------------|----------------------------------|-----------|
| §15.207(a)            | RSS-Gen §8.8   | AC Power Line Conducted Emission | N/A       |
| §15.247(b) (3)        | RSS-247 §5.4 d | Peak Output Power                | Compliant |
| §15.209<br>§15.247(d) | RSS-247 §5.5   | Radiated Spurious Emission       | Compliant |
| §15.203               | N/A            | Antenna Requirement              | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

| 2400~2483.5 MHz |                |
|-----------------|----------------|
| 20MHz           |                |
| CH              | Freq.<br>(MHz) |
| 1               | 2412           |
| 2               | 2417           |
| 3               | 2422           |
| 4               | 2427           |
| 5               | 2432           |
| 6               | 2437           |
| 7               | 2442           |
| 8               | 2447           |
| 9               | 2452           |
| 10              | 2457           |
| 11              | 2462           |

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#### 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The given UE is pre-scanned among below modes.

| Mode |           | Transmission Chain |     |  |     |  |     |  | Single Transmission Spatial |   | Multi Transmission Spatial |  |     |
|------|-----------|--------------------|-----|--|-----|--|-----|--|-----------------------------|---|----------------------------|--|-----|
| V    | 802.11 b  | V                  | Ch0 |  | Ch1 |  | Ch2 |  | Ch3                         | V | 1TX                        |  | 1TX |
| V    | 802.11 g  | V                  | Ch0 |  | Ch1 |  | Ch2 |  | Ch3                         | V | 1TX                        |  | 1TX |
| V    | 802.11 n  | V                  | Ch0 |  | Ch1 |  | Ch2 |  | Ch3                         | V | 1TX                        |  | 1TX |
|      | 802.11 ac |                    | Ch0 |  | Ch1 |  | Ch2 |  | Ch3                         |   | 1TX                        |  | 1TX |
|      | 802.11 ax |                    | Ch0 |  | Ch1 |  | Ch2 |  | Ch3                         |   | 1TX                        |  | 1TX |
|      | 802.11 be |                    | Ch0 |  | Ch1 |  | Ch2 |  | Ch3                         |   | 1TX                        |  | 1TX |

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

| CONDUCTED TEST |                   |                 |            |                  |  |              |
|----------------|-------------------|-----------------|------------|------------------|--|--------------|
| MODE           | AVAILABLE CHANNEL | TESTED CHANNEL  | MODULATION | DATA RATE (Mbps) |  | ANTENNA PORT |
| 802.11b        | 1 to 11           | 1,6,11          | CCK        | 1                |  | Ch0          |
| 802.11g        | 1 to 11           | 1,2,3,6,9,10,11 | OFDM       | 6                |  | Ch0          |
| 802.11n_HT20   | 1 to 11           | 1,2,3,6,9,10,11 | OFDM       | MCS0             |  | Ch0          |

| TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz) |                      |                   |                |            |                  |              |
|-----------------------------------------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE                                          | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11g                                       | 2437                 | 6                 | 6              | OFDM       | 6Mbps            | Ch0          |

#### Note:

1. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
2. Radiated test was done with 50ohm terminator on antenna port.

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                       | Uncertainty |
|----------------------------------|-------------|
| AC Power Line Conducted Emission | +/- 1.54 dB |
| Output Power measurement         | +/- 0.97 dB |
| Emission Bandwidth               | +/- 1.38 Hz |
| Conducted emission measurement   | +/- 0.77 dB |
| Peak Power Density               | +/- 0.61 dB |
| Temperature                      | +/- 0.6 °C  |
| Humidity                         | +/- 3 %     |
| DC / AC Power Source             | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |     |         |                 |
|----------------------------------------------------|-----|---------|-----------------|
| Polarization: Vertical                             | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.1 dB  | 30MHz - 1000MHz |
|                                                    | +/- | 3.37 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.83 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 1.89 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.1 dB  | 30MHz - 1000MHz |
|                                                    | +/- | 3.37 dB | 1GHz - 18GHz    |
|                                                    | +/- | 3.83 dB | 18GHz - 40GHz   |
| Radiated Spurious Emission                         | +/- | 2 dB    | 33GHz-50GHz     |
|                                                    | +/- | 1.59 dB | 50GHz-60GHz     |
|                                                    | +/- | 1.71 dB | 60GHz-90GHz     |
|                                                    | +/- | 1.64 dB | 90GHz-140GHz    |
|                                                    | +/- | 3.84 dB | 140GHz-220GHz   |

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Emission from AC power line

N/A

### 6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted C |            |                     |               |                           |                          |
|-------------------------------------------|------------|---------------------|---------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                            | MFR        | MODEL NUMBER        | SERIAL NUMBER | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Attenuator                                | Woken      | WATT-218FS-10       | RF18          | 11/14/2024                | 11/13/2025               |
| Attenuator                                | Woken      | WATT-218FS-10       | RF19          | 11/14/2024                | 11/13/2025               |
| DC Block                                  | PASTERNAK  | PE8210              | RF35          | 11/14/2024                | 11/13/2025               |
| DC Power Supply                           | Agilent    | E3640A              | MY53130054    | 10/01/2024                | 09/30/2025               |
| Power Meter                               | Anritsu    | ML2496A             | 1512003       | 09/04/2024                | 09/03/2025               |
| Power Sensor                              | Anritsu    | MA2411B             | 1339378       | 09/04/2024                | 09/03/2025               |
| Power Sensor                              | Anritsu    | MA2411B             | 1339379       | 09/04/2024                | 09/03/2025               |
| Spectrum Analyzer                         | KEYSIGHT   | N9010B              | MY59071573    | 05/24/2024                | 05/23/2025               |
| Test Software                             | SGS Taiwan | Radio Test Software | Ver.21        | N.C.R                     | N.C.R                    |

### 6.3 Radiated Measurement

| Radiated Emission Test Site: SAC D |                   |                                                                                |                                                 |                           |                          |
|------------------------------------|-------------------|--------------------------------------------------------------------------------|-------------------------------------------------|---------------------------|--------------------------|
| EQUIPMENT TYPE                     | MFR               | MODEL NUMBER                                                                   | SERIAL NUMBER                                   | LAST CAL.<br>(mm/dd/yyyy) | CAL DUE.<br>(mm/dd/yyyy) |
| Active Loop Antenna                | COM-POWER         | AL-130R                                                                        | 10160105                                        | 12/11/2024                | 12/10/2025               |
| Broadband Antenna                  | SCHWARZBECK       | VULB 9168                                                                      | 9168-617                                        | 12/17/2024                | 12/16/2025               |
| Coaxial Cable                      | EMCI+Huber Suhner | RG 214/U+EMC104-SM-SM-500+SUCOFLEX 104+16+EMC105-SM-SM-11000+EMC106-SM-SM-2300 | W22.01+W21.01+15 0707+MY969/4+16+ 190825+150702 | 11/14/2024                | 11/13/2025               |
| Pre-Amplifier                      | EMC Instruments   | EMC9135                                                                        | 980234                                          | 11/14/2024                | 11/13/2025               |
| Spectrum Analyzer                  | KEYSIGHT          | N9010A                                                                         | MY54510568                                      | 10/16/2024                | 10/15/2025               |
| Test Software                      | audix             | e3                                                                             | E3 20923 SGS Ver.9 ( C )                        | N.C.R                     | N.C.R                    |

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range<br>MHz | Limits<br>(dBuV) |          |
|------------------------|------------------|----------|
|                        | Quasi-peak       | Average  |
| 0.15 to 0.50           | 66 to 56         | 56 to 46 |
| 0.50 to 5              | 56               | 46       |
| 5 to 30                | 60               | 50       |

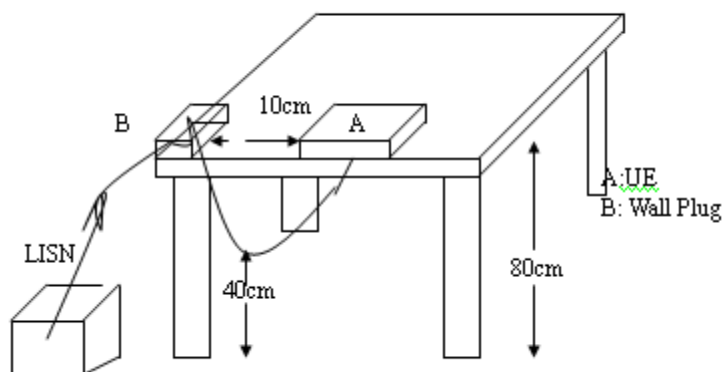
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

### 7.3 Test Setup



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#### 7.4 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

#### 7.5 Measurement Result

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

N/A; Powered from AA batteries.

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## 8 PEAK OUTPUT POWER MEASUREMENT

### 8.1 Standard Applicable

#### 8.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

#### 8.1.2 FCC

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

#### 8.1.3 ISED

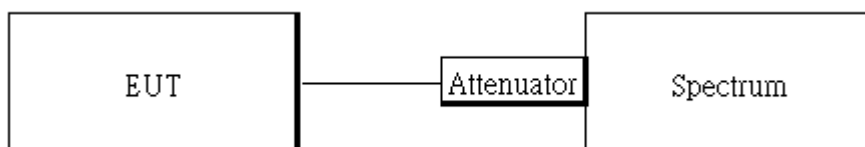
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W (ISED only).

#### Note:

When the antenna gain is greater than 6 dBi, the power limit attenuated accordingly.

### 8.2 Test Setup

#### 8.2.1 Duty Cycle

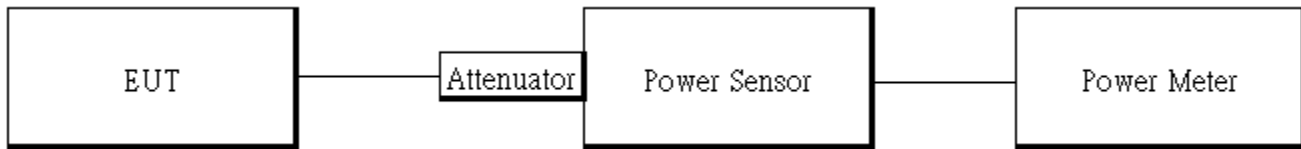


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### 8.2.2 Output Power:



## 8.3 Measurement Procedure

### 8.3.1 Duty Cycle:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

### 8.3.2 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

#### Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

**\* Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.**

## 8.4 Measurement Result

### 8.4.1 Duty Cycle:

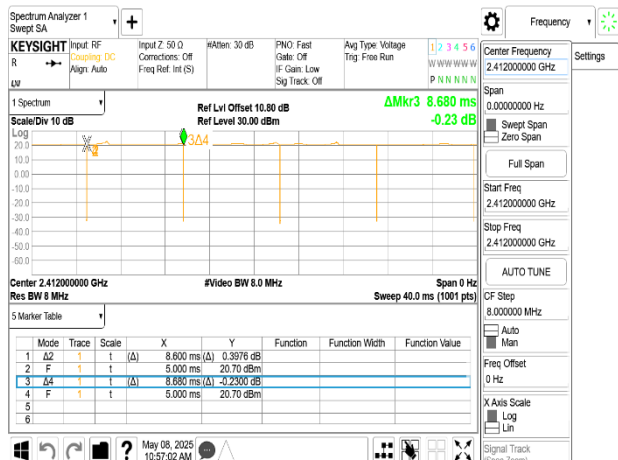
| Mode       | Duty Cycle (%)<br>= Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty Cycle ) | 1/T (kHz) | VBW setting<br>(kHz) |
|------------|--------------------------------------|----------------------------------------------|-----------|----------------------|
| 802.11b    | 99.08                                | 0.04                                         | 0.12      | 0.01                 |
| 802.11g    | 93.46                                | 0.29                                         | 0.70      | 1.00                 |
| 802.11n_20 | 93.06                                | 0.31                                         | 0.75      | 1.00                 |

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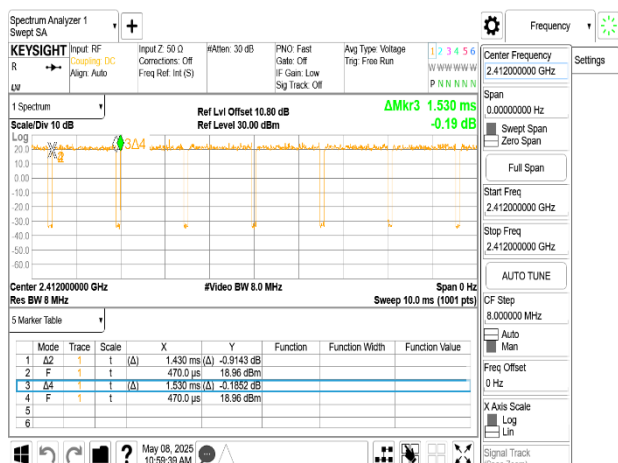
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## 8.4.2 Duty Cycle test plots

802.11b\_20MHz\_Chain0\_2412MHz



802.11g\_20MHz\_Chain0\_2412MHz



802.11n\_20MHz\_Chain0\_2412MHz



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### 8.4.3 Output Power

| 802.11b Ch0 |             |           |               |                        |                         |             |        |
|-------------|-------------|-----------|---------------|------------------------|-------------------------|-------------|--------|
| CH          | Freq. (MHz) | Data Rate | Power Setting | Peak Output Power (mW) | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1           | 2412        | 1         | 68            | 96.38                  | 19.84                   | 30.00       | PASS   |
| 6           | 2437        | 1         | 72            | 120.78                 | 20.82                   | 30.00       | PASS   |
| 11          | 2462        | 1         | 74            | 141.58                 | 21.51                   | 30.00       | PASS   |
| 802.11b Ch0 |             |           |               |                        |                         |             |        |
| CH          | Freq. (MHz) | Data Rate | Power Setting | Avg. Output Power (mW) | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1           | 2412        | 1         | 68            | 44.36                  | 16.47                   | 30.00       | PASS   |
| 6           | 2437        | 1         | 72            | 56.11                  | 17.49                   | 30.00       | PASS   |
| 11          | 2462        | 1         | 74            | 71.78                  | 18.56                   | 30.00       | PASS   |
| 802.11g Ch0 |             |           |               |                        |                         |             |        |
| CH          | Freq. (MHz) | Data Rate | Power Setting | Peak Output Power (mW) | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1           | 2412        | 6         | 61            | 260.02                 | 24.15                   | 30.00       | PASS   |
| 2           | 2417        | 6         | 73            | 324.34                 | 25.11                   | 30.00       | PASS   |
| 3           | 2422        | 6         | 76            | 358.92                 | 25.55                   | 30.00       | PASS   |
| 6           | 2437        | 6         | 76            | 356.45                 | 25.52                   | 30.00       | PASS   |
| 9           | 2452        | 6         | 74            | 341.98                 | 25.34                   | 30.00       | PASS   |
| 10          | 2457        | 6         | 68            | 302.00                 | 24.80                   | 30.00       | PASS   |
| 11          | 2462        | 6         | 58            | 243.22                 | 23.86                   | 30.00       | PASS   |
| 802.11g Ch0 |             |           |               |                        |                         |             |        |
| CH          | Freq. (MHz) | Data Rate | Power Setting | Avg. Output Power (mW) | Avg. Output Power (dBm) | Limit (dBm) | RESULT |
| 1           | 2412        | 6         | 61            | 31.58                  | 14.99                   | 30.00       | PASS   |
| 2           | 2417        | 6         | 73            | 57.59                  | 17.60                   | 30.00       | PASS   |
| 3           | 2422        | 6         | 76            | 64.77                  | 18.11                   | 30.00       | PASS   |
| 6           | 2437        | 6         | 76            | 66.43                  | 18.22                   | 30.00       | PASS   |
| 9           | 2452        | 6         | 74            | 59.75                  | 17.76                   | 30.00       | PASS   |
| 10          | 2457        | 6         | 68            | 45.64                  | 16.59                   | 30.00       | PASS   |
| 11          | 2462        | 6         | 58            | 29.33                  | 14.67                   | 30.00       | PASS   |

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## 802.11n\_HT\_20M Ch0

| CH | Freq.<br>(MHz) | Data<br>Rate | Power<br>Setting | Peak Output<br>Power<br>(mW) | Peak Output<br>Power<br>(dBm) | Limit<br>(dBm) | RESULT |
|----|----------------|--------------|------------------|------------------------------|-------------------------------|----------------|--------|
| 1  | 2412           | MCS0         | 61               | 261.22                       | 24.17                         | 30.00          | PASS   |
| 2  | 2417           | MCS0         | 74               | 388.15                       | <b>25.89</b>                  | 30.00          | PASS   |
| 3  | 2422           | MCS0         | 76               | 371.54                       | 25.70                         | 30.00          | PASS   |
| 6  | 2437           | MCS0         | 76               | 349.14                       | 25.43                         | 30.00          | PASS   |
| 9  | 2452           | MCS0         | 74               | 341.98                       | 25.34                         | 30.00          | PASS   |
| 10 | 2457           | MCS0         | 67               | 298.54                       | 24.75                         | 30.00          | PASS   |
| 11 | 2462           | MCS0         | 55               | 272.90                       | 24.36                         | 30.00          | PASS   |

## 802.11n\_HT\_20M Ch0

| CH | Freq.<br>(MHz) | Data<br>Rate | Power<br>Setting | Avg. Output<br>Power<br>(mW) | Avg. Output<br>Power<br>(dBm) | Limit<br>(dBm) | RESULT |
|----|----------------|--------------|------------------|------------------------------|-------------------------------|----------------|--------|
| 1  | 2412           | MCS0         | 61               | 30.92                        | 14.90                         | 30.00          | PASS   |
| 2  | 2417           | MCS0         | 74               | 56.65                        | 17.53                         | 30.00          | PASS   |
| 3  | 2422           | MCS0         | 76               | 62.70                        | 17.97                         | 30.00          | PASS   |
| 6  | 2437           | MCS0         | 76               | 63.28                        | <b>18.01</b>                  | 30.00          | PASS   |
| 9  | 2452           | MCS0         | 74               | 58.78                        | 17.69                         | 30.00          | PASS   |
| 10 | 2457           | MCS0         | 67               | 41.52                        | 16.18                         | 30.00          | PASS   |
| 11 | 2462           | MCS0         | 55               | 23.35                        | 13.68                         | 30.00          | PASS   |

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#### 8.4.4 EIRP

| 802.11b Ch0 |             |           |                         |                    |              |             |        |
|-------------|-------------|-----------|-------------------------|--------------------|--------------|-------------|--------|
| CH          | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | Limit (dBm) | RESULT |
| 1           | 2412        | 1         | 16.47                   | 4.60               | 21.07        | 36          | PASS   |
| 6           | 2437        | 1         | 17.49                   | 4.60               | 22.09        | 36          | PASS   |
| 11          | 2462        | 1         | 18.56                   | 4.60               | <b>23.16</b> | 36          | PASS   |

| 802.11g Ch0 |             |           |                         |                    |              |             |        |
|-------------|-------------|-----------|-------------------------|--------------------|--------------|-------------|--------|
| CH          | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | Limit (dBm) | RESULT |
| 1           | 2412        | 6         | 14.99                   | 4.60               | 19.59        | 36          | PASS   |
| 2           | 2417        | 6         | 17.60                   | 4.60               | 22.20        | 36          | PASS   |
| 3           | 2422        | 6         | 18.11                   | 4.60               | 22.71        | 36          | PASS   |
| 6           | 2437        | 6         | 18.22                   | 4.60               | <b>22.82</b> | 36          | PASS   |
| 9           | 2452        | 6         | 17.76                   | 4.60               | 22.36        | 36          | PASS   |
| 10          | 2457        | 6         | 16.59                   | 4.60               | 21.19        | 36          | PASS   |
| 11          | 2462        | 6         | 14.67                   | 4.60               | 19.27        | 36          | PASS   |

| 802.11n_HT_20M Ch0 |             |           |                         |                    |              |             |        |
|--------------------|-------------|-----------|-------------------------|--------------------|--------------|-------------|--------|
| CH                 | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm)   | Limit (dBm) | RESULT |
| 1                  | 2412        | MCS0      | 14.90                   | 4.60               | 19.50        | 36          | PASS   |
| 2                  | 2417        | MCS0      | 17.53                   | 4.60               | 22.13        | 36          | PASS   |
| 3                  | 2422        | MCS0      | 17.97                   | 4.60               | 22.57        | 36          | PASS   |
| 6                  | 2437        | MCS0      | 18.01                   | 4.60               | <b>22.61</b> | 36          | PASS   |
| 9                  | 2452        | MCS0      | 17.69                   | 4.60               | 22.29        | 36          | PASS   |
| 10                 | 2457        | MCS0      | 16.18                   | 4.60               | 20.78        | 36          | PASS   |
| 11                 | 2462        | MCS0      | 13.68                   | 4.60               | 18.28        | 36          | PASS   |

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## 9 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 9.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300               |
| 0.490-1.705     | 24000/F(kHz)                      | 30                |
| 1.705-30        | 30                                | 30                |
| 30-88           | 100                               | 3                 |
| 88-216          | 150                               | 3                 |
| 216-960         | 200                               | 3                 |
| Above 960       | 500                               | 3                 |

**Note:**

1. The lower limit shall apply at the transition frequencies.

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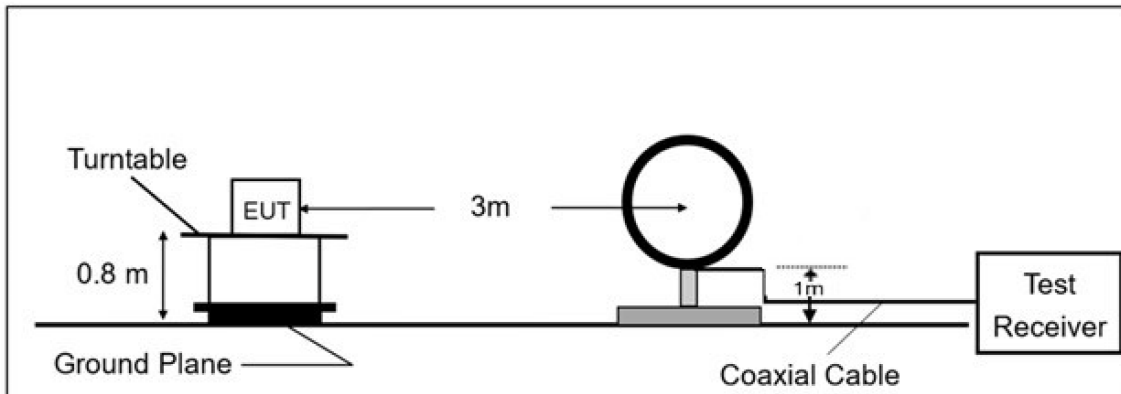
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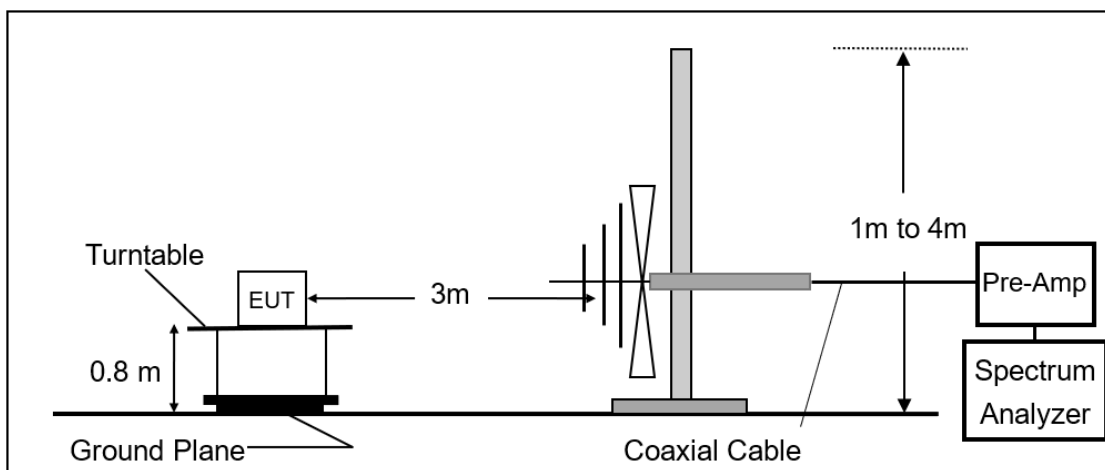
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## 9.2 Test Setup

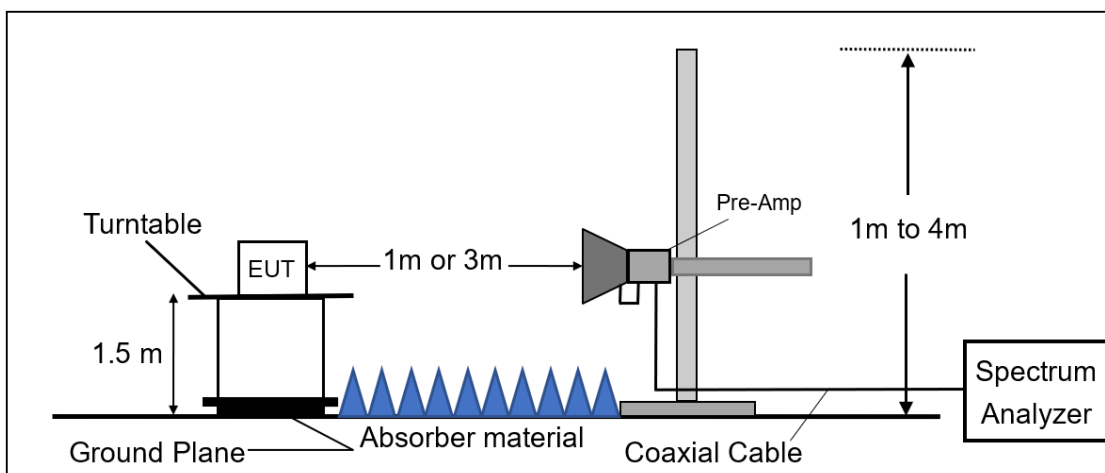
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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### 9.3 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= Peak for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz, Detector= RMS correction factor is  $[10 \log (1 / D)]$  for Average Emission measurements at frequency above 1 GHz when  $D \geq 98\%$ . If a specific emission is demonstrated to be continuous ( $D \geq 98\%$ ) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission, where D is the duty cycle.
9. Set the spectrum analyzer as RBW=1 MHz,  $VBW \geq 1/T$  when  $D < 98\%$  for Average Emission Measurements at frequency above 1 GHz.
10. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
11. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
12. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
13. Repeat above procedures until all default test channel measured were complete.

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## 9.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS* = Field Strength

*CL* = Cable Attenuation Factor (Cable Loss)

*RA* = Reading Amplitude

*AG* = Amplifier Gain

*AF* = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts  $20 \cdot \log(uV/m)$

*Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

## 9.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

## 9.6 Measurement Result

### Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands.

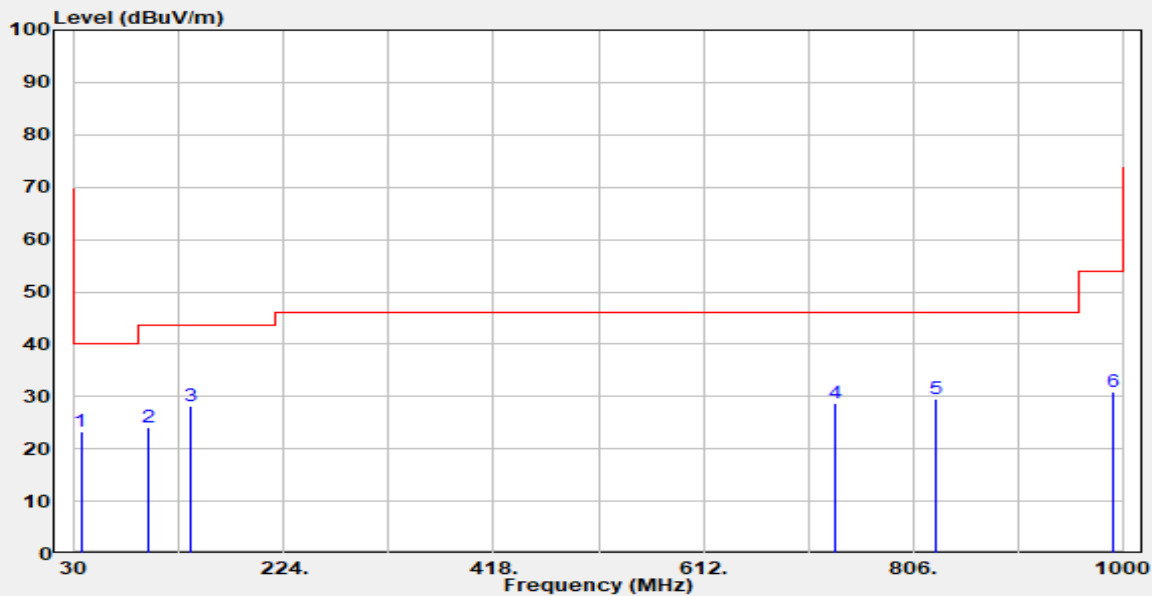
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## 9.6.1 Spurious Emission:

Report Number :TERF2504001597E2  
 Operation Mode :802.11g  
 Test Frequency :2437 MHz  
 Test Mode :Tx  
 EUT Pol :E2 Plane

Test Site :SAC D  
 Test Date :2025-05-19  
 Temp./Humi. :20.5°C/65%  
 Antenna Pol. :Vertical  
 Engineer :Temo Chen



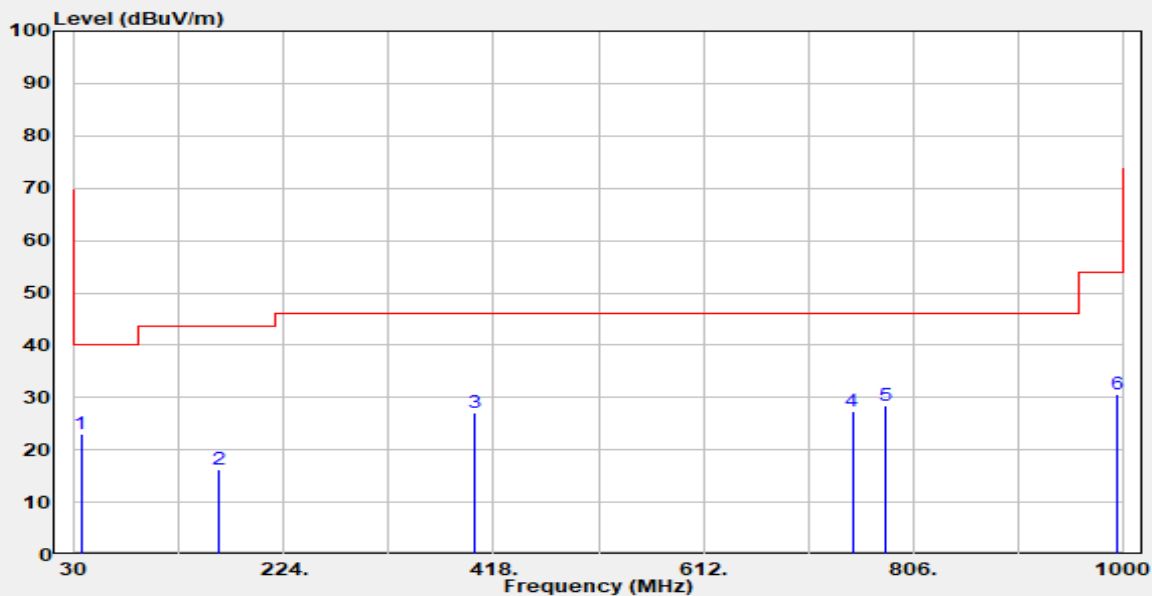
| Freq.  | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|--------|----------|---------------|--------|--------|--------|--------|
| MHz    | Mode     | Reading Level |        | FS     | @3m    |        |
|        | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 35.82  | Peak     | 42.30         | -18.92 | 23.38  | 40.00  | -16.62 |
| 98.89  | Peak     | 46.26         | -22.14 | 24.12  | 43.50  | -19.38 |
| 137.38 | Peak     | 45.65         | -17.53 | 28.12  | 43.50  | -15.38 |
| 734.13 | Peak     | 35.94         | -7.21  | 28.73  | 46.00  | -17.27 |
| 826.64 | Peak     | 35.63         | -6.14  | 29.49  | 46.00  | -16.51 |
| 992.24 | Peak     | 35.01         | -4.08  | 30.93  | 54.00  | -23.07 |

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Report Number :TERF2504001597E2  
Operation Mode :802.11g  
Test Frequency :2437 MHz  
Test Mode :Tx  
EUT Pol :E2 Plane

Test Site :SAC D  
Test Date :2025-05-19  
Temp./Humi. :20.5°C/65%  
Antenna Pol. :Horizontal  
Engineer :Temo Chen



| Freq.  | Detector | Spectrum      | Factor | Actual | Limit  | Margin |
|--------|----------|---------------|--------|--------|--------|--------|
| MHz    | Mode     | Reading Level |        | FS     | @3m    |        |
|        | PK/QP/AV | dBμV          | dB     | dBμV/m | dBμV/m | dB     |
| 35.82  | Peak     | 41.89         | -18.92 | 22.97  | 40.00  | -17.03 |
| 163.58 | Peak     | 32.95         | -16.58 | 16.37  | 43.50  | -27.13 |
| 400.02 | Peak     | 40.66         | -13.57 | 27.09  | 46.00  | -18.91 |
| 749.98 | Peak     | 34.23         | -6.93  | 27.30  | 46.00  | -18.70 |
| 780.06 | Peak     | 34.68         | -6.35  | 28.33  | 46.00  | -17.67 |
| 995.15 | Peak     | 34.55         | -4.00  | 30.55  | 54.00  | -23.45 |

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## 10 ANTENNA REQUIREMENT

### 10.1 Standard Applicable

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, 15.221, or § 15.236. 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.

### 10.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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