

# FCC Radio Test Report

**FCC ID: 2BH7FC400V2**

**Report No.** : BTL-FCCP-2-2503G008  
**Equipment** : Battery-Powered Outdoor Security Camera  
**Model Name** : Tapo C400, Tapo C401  
**Brand Name** : tp-link  
**Applicant** : TP-Link Systems Inc.  
**Address** : 10 Mauchly, Irvine, CA 92618  
**Manufacturer** : TP-Link Systems Inc.  
**Address** : 10 Mauchly, Irvine, CA 92618  
  
**Radio Function** : WLAN 2.4 GHz  
  
**FCC Rule Part(s)** : FCC CFR Title 47, Part 15, Subpart C (15.247)  
**Measurement Procedure(s)** : ANSI C63.10-2013  
  
**Date of Receipt** : 2025/6/2  
**Date of Test** : 2025/6/3 ~ 2025/6/10  
                              2025/6/25  
**Issued Date** : 2025/6/26

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

**Prepared by** :

*Poken Huang*

Poken Huang, Engineer

**Approved by** :

*Peter Chen*

Peter Chen, Manager



**BTL Inc.**

No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan

Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: [www.newbtl.com](http://www.newbtl.com) Service mail: [btl\\_qa@newbtl.com](mailto:btl_qa@newbtl.com)

**Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL's** reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the Customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

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**BTL's** laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

**BTL** is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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**REVISION HISTORY**

| Report No.          | Version | Description            | Issued Date | Note    |
|---------------------|---------|------------------------|-------------|---------|
| BTL-FCCP-2-2503G008 | R00     | Original Report.       | 2025/6/20   | Invalid |
| BTL-FCCP-2-2503G008 | R01     | Modified the comments. | 2025/6/26   | Valid   |

## 1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

| Standard(s) Section | Description                         | Test Result              | Judgement | Remark          |
|---------------------|-------------------------------------|--------------------------|-----------|-----------------|
| 15.207              | AC Power Line Conducted Emissions   | APPENDIX A               | Pass      | -----           |
| 15.209<br>15.247(d) | Radiated Emissions                  | APPENDIX B<br>APPENDIX C | Pass      | -----           |
| 15.247(a)           | Bandwidth                           | APPENDIX D               | Pass      | -----           |
| 15.247(b)           | Output Power                        | APPENDIX E               | Pass      | -----           |
| 15.247(e)           | Power Spectral Density              | APPENDIX F               | Pass      | -----           |
| 15.247(d)           | Antenna conducted Spurious Emission | APPENDIX G               | Pass      | -----           |
| 15.203              | Antenna Requirement                 | -----                    | Pass      | <b>NOTE (3)</b> |

### NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) The device what use replaceable antennas with non-standard interfaces are considered sufficient to comply with the provisions of 15.203.

### 1.1 TEST FACILITY

The test locations stated below are under the TAF Accreditation Number 0659.

The test location(s) used to collect the test data in this report are:

No. 64, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659)

☒ C01 ☒ CB20

No. 68-2, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659)

☒ SR06

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately **95 %**.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2  $U_{\text{CISPR}}$  requirement.

#### A. AC power line conducted emissions test:

| Test Site | Method | Measurement Frequency Range | U (dB) |
|-----------|--------|-----------------------------|--------|
| C01       | CISPR  | 150 kHz ~ 30MHz             | 2.4498 |

#### B. Radiated emissions test:

| Test Site | Measurement Frequency Range | U (dB) |
|-----------|-----------------------------|--------|
| CB20      | 0.03 GHz ~ 0.2 GHz          | 4.17   |
|           | 0.2 GHz ~ 1 GHz             | 4.72   |
|           | 1 GHz ~ 6 GHz               | 5.21   |
|           | 6 GHz ~ 18 GHz              | 5.51   |
|           | 18 GHz ~ 26 GHz             | 3.69   |
|           | 26 GHz ~ 40 GHz             | 4.23   |

#### C. Conducted test:

| Test Item                    | U (dB)    |
|------------------------------|-----------|
| Occupied Bandwidth           | 0.83 %    |
| Output power                 | 0.8909 dB |
| Power Spectral Density       | 0.8903 dB |
| Conducted Spurious emissions | 1.8304 dB |
| Conducted Band edges         | 1.8338 dB |

#### NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

### 1.3 TEST ENVIRONMENT CONDITIONS

| Test Item                           | Environment Condition | Test Voltage | Tested by  |
|-------------------------------------|-----------------------|--------------|------------|
| AC Power Line Conducted Emissions   | 25°C, 45%             | AC 120 V     | Benny Cao  |
| Radiated emissions below 1 GHz      | 25°C, 65%             | AC 120 V     | Benny Cao  |
| Radiated emissions above 1 GHz      | 25°C, 65%             | AC 120 V     | Benny Cao  |
| Bandwidth                           | 25°C, 60%             | AC 120 V     | Cheng Tsai |
| Output Power                        | 25°C, 60%             | AC 120 V     | Cheng Tsai |
| Power Spectral Density              | 25°C, 60%             | AC 120 V     | Cheng Tsai |
| Antenna conducted Spurious Emission | 25°C, 60%             | AC 120 V     | Cheng Tsai |

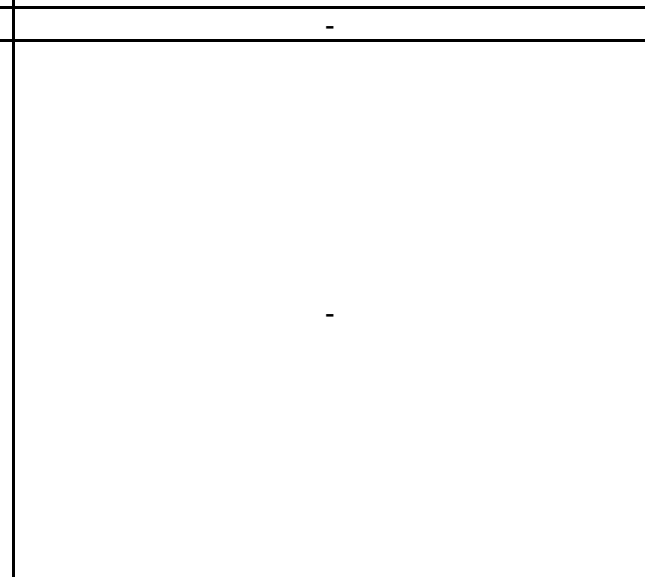
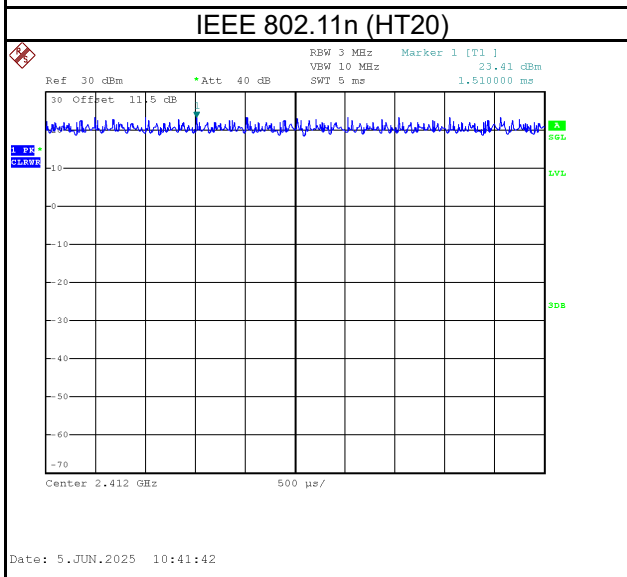
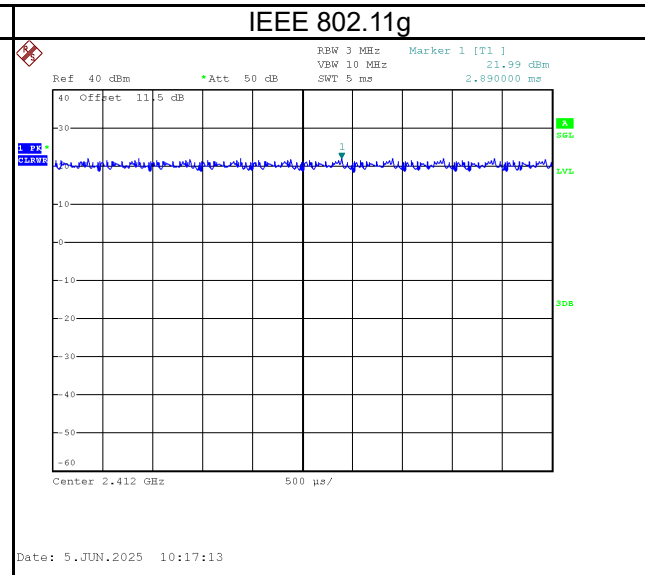
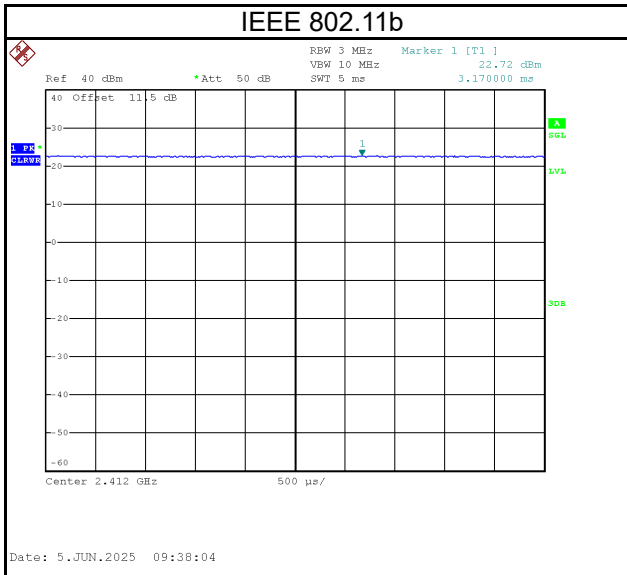
#### 1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

| Test Software Version | AmebaDPlus_MP_tool_1V4 |      |      |
|-----------------------|------------------------|------|------|
| Frequency (MHz)       | 2412                   | 2437 | 2462 |
| IEEE 802.11b          | 124                    | 124  | 122  |
| IEEE 802.11g          | 90                     | 120  | 107  |
| IEEE 802.11n(HT20)    | 95                     | 119  | 105  |

## 1.5 DUTY CYCLE

If duty cycle is  $\geq 98\%$ , duty factor is not required.  
If duty cycle is  $< 98\%$ , duty factor shall be considered.

| Mode                | ON (ms) | Numbers (ON) | On Time (B) (ms) | Period (ON+OFF) (ms) | Duty Cycle (%) | Duty Factor (dB) |
|---------------------|---------|--------------|------------------|----------------------|----------------|------------------|
| IEEE 802.11b        | 3.170   | 1            | 3.170            | 3.170                | 100.00%        | 0.00             |
| IEEE 802.11g        | 2.890   | 1            | 2.890            | 2.890                | 100.00%        | 0.00             |
| IEEE 802.11n (HT20) | 1.510   | 1            | 1.510            | 1.510                | 100.00%        | 0.00             |



## 2 GENERAL INFORMATION

### 2.1 DESCRIPTION OF EUT

|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| Equipment             | Battery-Powered Outdoor Security Camera                                                                    |
| Brand Name            | tp-link                                                                                                    |
| Model Name            | Tapo C400, Tapo C401                                                                                       |
| Model Difference(s)   | Only differ in model name and appearance color.                                                            |
| Hardware Version      | 2.0                                                                                                        |
| Software Version      | 2.X                                                                                                        |
| Power Source          | 1# Supplied from Type-C port.<br>2# Battery supplied.<br>Model: CMICR18650F8                               |
| Power Rating          | 1# 5V --- 1A<br>2# 3.7V, 2600mAh, 9.62Wh                                                                   |
| Operation Band        | 2400 MHz ~ 2483.5 MHz                                                                                      |
| Operation Frequency   | 2412 MHz ~ 2462 MHz                                                                                        |
| Modulation Technology | IEEE 802.11b: DSSS<br>IEEE 802.11g: OFDM<br>IEEE 802.11n: OFDM                                             |
| Transfer Rate         | IEEE 802.11b: 11/5.5/2/1 Mbps<br>IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps<br>IEEE 802.11n: up to 72.2 Mbps |
| Output Power Max.     | IEEE 802.11b: 22.93 dBm (0.1963 W)                                                                         |
| Test Model            | Tapo C400                                                                                                  |
| Sample Status         | Engineering Sample                                                                                         |
| EUT Modification(s)   | N/A                                                                                                        |

**NOTE:**

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

| CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20) |                 |         |                 |         |                 |         |                 |
|----------------------------------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                                                        | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01                                                             | 2412            | 04      | 2427            | 07      | 2442            | 10      | 2457            |
| 02                                                             | 2417            | 05      | 2432            | 08      | 2447            | 11      | 2462            |
| 03                                                             | 2422            | 06      | 2437            | 09      | 2452            |         |                 |

(3) Table for Filed Antenna:

| Ant. | Manufacturer         | P/N        | Type | Connector | Gain (dBi) |
|------|----------------------|------------|------|-----------|------------|
| 1    | TP-Link Systems Inc. | 6035500079 | PIFA | N/A       | 0          |

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

## 2.2 TEST MODES

| Test Items                                                                                       | Test mode                    | Channel  | Note     |
|--------------------------------------------------------------------------------------------------|------------------------------|----------|----------|
| AC power line conducted emissions                                                                | Normal                       | -        | -        |
| Transmitter Radiated Emissions<br>(below 1GHz)                                                   | TX Mode_ IEEE 802.11b        | 06       | -        |
| Transmitter Radiated Emissions<br>(above 1GHz)                                                   | TX Mode_ IEEE 802.11b        | 01/11    | Bandedge |
|                                                                                                  | TX Mode_ IEEE 802.11g        |          |          |
|                                                                                                  | TX Mode_ IEEE 802.11n (HT20) |          |          |
| Transmitter Radiated Emissions<br>(above 1GHz)                                                   | TX Mode_ IEEE 802.11b        | 01/06/11 | Harmonic |
|                                                                                                  | TX Mode_ IEEE 802.11g        |          |          |
|                                                                                                  | TX Mode_ IEEE 802.11n (HT20) |          |          |
| Transmitter Radiated Emissions<br>(above 18GHz)                                                  | TX Mode_ IEEE 802.11b        | 06       | -        |
| Bandwidth &<br>Output Power &<br>Power Spectral Density &<br>Antenna conducted Spurious Emission | TX Mode_ IEEE 802.11b        | 01/06/11 | -        |
|                                                                                                  | TX Mode_ IEEE 802.11g        |          |          |
|                                                                                                  | TX Mode_ IEEE 802.11n (HT20) |          |          |

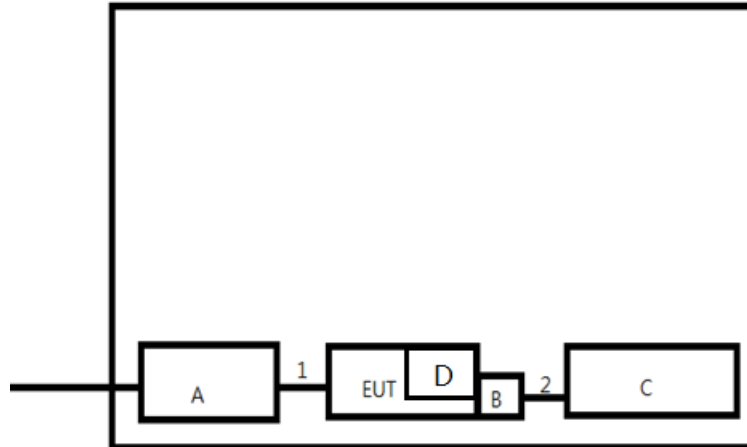
### NOTE:

- (1) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Vertical for Band edge, Horizontal for Harmonic. In this report only recorded the worst case.
- (2) For radiated emission below 1 GHz test, the TX B Mode Channel 06 is found to be the worst case and recorded.
- (3) For radiated emission Harmonic above 18GHz test, only tested the worst case and recorded.
- (4) The electric field intensity signal emitted at 9 kHz - 30 MHz is too weak (20 dB below the limit), so the measured value is not recorded in this report.

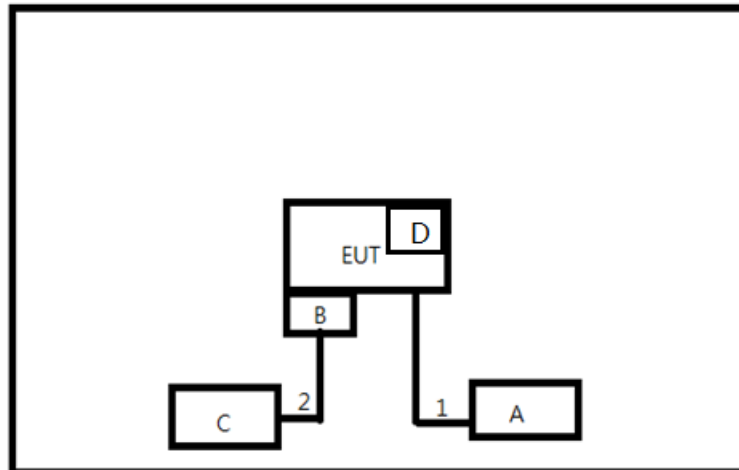
## 2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC power line conducted emissions



Radiated Emissions



## 2.4 SUPPORT UNITS

| Item | Equipment    | Brand   | Model No.           | Series No. | Remarks                     |
|------|--------------|---------|---------------------|------------|-----------------------------|
| A    | Adapter      | tp-link | T050100-2B3         | N/A        | Supplied by test requester. |
| B    | Test Fixture | N/A     | CH340               | N/A        | Furnished by test lab.      |
| C    | Notebook     | Lenovo  | ThinkBook 14 G4 IAP | MP28KHAH   | Furnished by test lab.      |
| D    | SD Card      | SanDisk | ZN6MA               | N/A        | Furnished by test lab.      |

| Item | Shielded | Ferrite Core | Length | Cable Type    | Remarks                     |
|------|----------|--------------|--------|---------------|-----------------------------|
| 1    | N        | N            | 1m     | USB Cable     | Supplied by test requester. |
| 2    | N        | N            | 0.8m   | Fixture Cable | Furnished by test lab.      |

### 3 AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

| Frequency<br>(MHz) | Limit (dBμV) |           |
|--------------------|--------------|-----------|
|                    | Quasi-peak   | Average   |
| 0.15 - 0.5         | 66 - 56 *    | 56 - 46 * |
| 0.50 - 5.0         | 56           | 46        |
| 5.0 - 30.0         | 60           | 50        |

**NOTE:**

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:  
 Measurement Value = Reading Level + Correct Factor  
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)  
 Margin Level = Measurement Value – Limit Value  
 Calculation example:

| Reading Level<br>(dBμV) |   | Correct Factor<br>(dB) |   | Measurement Value<br>(dBμV) |
|-------------------------|---|------------------------|---|-----------------------------|
| 38.22                   | + | 3.45                   | = | 41.67                       |

| Measurement Value<br>(dBμV) |   | Limit Value<br>(dBμV) |   | Margin Level<br>(dB) |
|-----------------------------|---|-----------------------|---|----------------------|
| 41.67                       | - | 60                    | = | -18.33               |

The following table is the setting of the receiver.

| Receiver Parameter | Setting  |
|--------------------|----------|
| Attenuation        | 10 dB    |
| Start Frequency    | 0.15 MHz |
| Stop Frequency     | 30 MHz   |
| IF Bandwidth       | 9 KHz    |

#### 3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).  
 All other support equipment were powered from an additional LISN(s).  
 The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.  
 The end of the cable will be terminated, using the correct terminating impedance.  
 The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

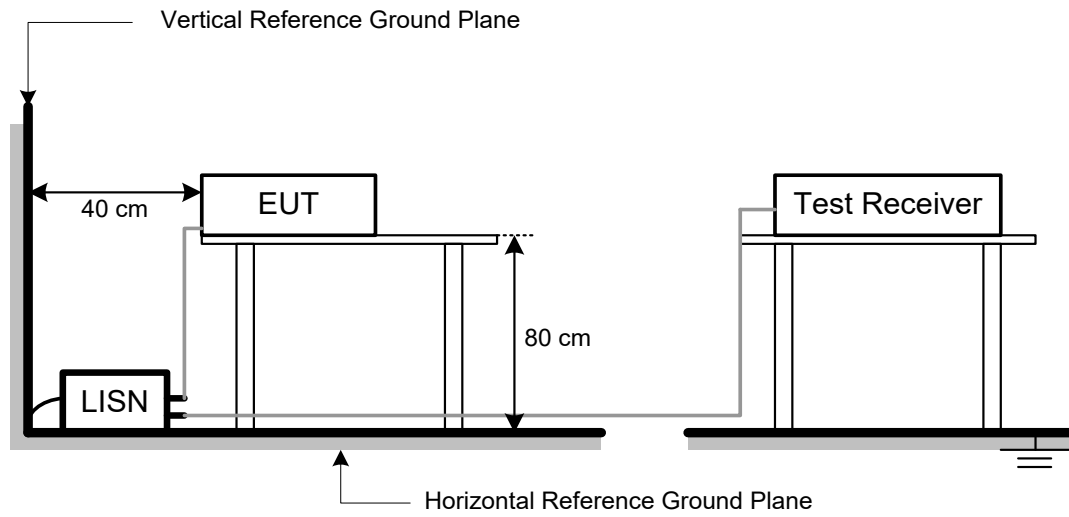
**NOTE:**

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used.  
 BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

## 3.4 TEST SETUP



## 3.5 TEST RESULT

Please refer to the APPENDIX A.

## 4 RADIATED EMISSIONS TEST

### 4.1 LIMIT

In case the emission fall within the restricted band specified on 15.205, then the 15.209 limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009~0.490     | 2400/F(KHz)                       | 300                           |
| 0.490~1.705     | 24000/F(KHz)                      | 30                            |
| 1.705~30.0      | 30                                | 30                            |
| 30~88           | 100                               | 3                             |
| 88~216          | 150                               | 3                             |
| 216~960         | 200                               | 3                             |
| 960~1000        | 500                               | 3                             |

#### LIMITS OF RADIATED EMISSIONS MEASUREMENT (Above 1000 MHz)

| Frequency (MHz) | Radiated Emissions (dBuV/m) |         | Measurement Distance (meters) |
|-----------------|-----------------------------|---------|-------------------------------|
|                 | Peak                        | Average |                               |
| Above 1000      | 74                          | 54      | 3                             |

#### NOTE:

- (1) The limit for radiated test was performed according to FCC CFR Title 47, Part 15, Subpart C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

| Reading Level (dBuV) |   | Correct Factor (dB/m) |   | Measurement Value (dBuV/m) |
|----------------------|---|-----------------------|---|----------------------------|
| 19.11                | + | 2.11                  | = | 21.22                      |

| Measurement Value (dBuV/m) |   | Limit Value (dBuV/m) |   | Margin Level (dB) |
|----------------------------|---|----------------------|---|-------------------|
| 21.22                      | - | 54                   | = | -32.78            |

| Spectrum Parameter                      | Setting                                         |
|-----------------------------------------|-------------------------------------------------|
| Attenuation                             | Auto                                            |
| Start Frequency                         | 1000 MHz                                        |
| Stop Frequency                          | 10th carrier harmonic                           |
| RBW / VBW (Emission in restricted band) | 1MHz / 3MHz for Peak,<br>1MHz / 1/T for Average |

| Mode                | VBW(Hz) |
|---------------------|---------|
| IEEE 802.11b        | 1.8k    |
| IEEE 802.11g        | 750     |
| IEEE 802.11n (HT20) | 300     |
| IEEE 802.11n (HT40) | 300     |

| Spectrum Parameter     | Setting                           |
|------------------------|-----------------------------------|
| Attenuation            | Auto                              |
| Start ~ Stop Frequency | 9KHz~90KHz for PK/AVG detector    |
| Start ~ Stop Frequency | 90KHz~110KHz for QP detector      |
| Start ~ Stop Frequency | 110KHz~490KHz for PK/AVG detector |
| Start ~ Stop Frequency | 490KHz~30MHz for QP detector      |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector     |

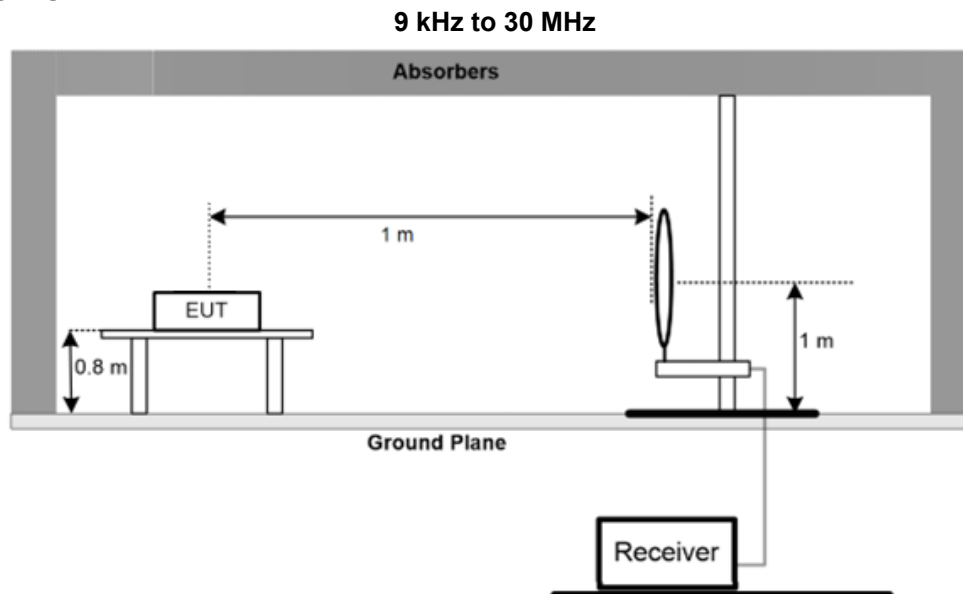
## 4.2 TEST PROCEDURE

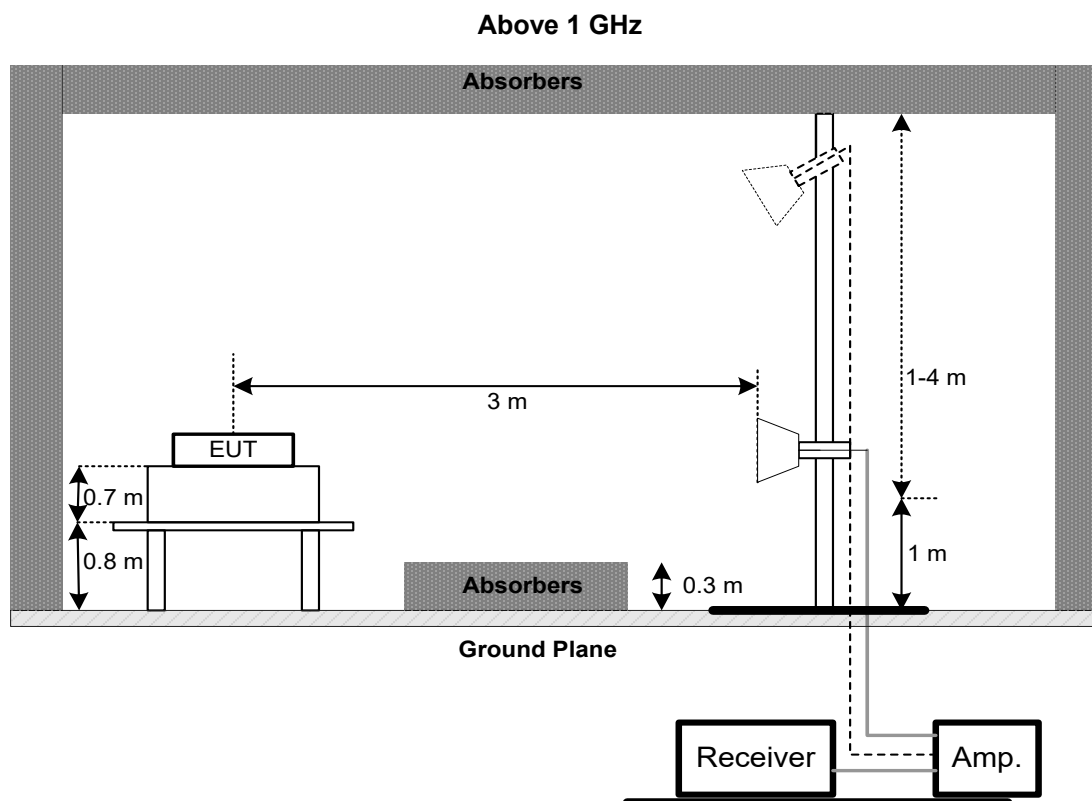
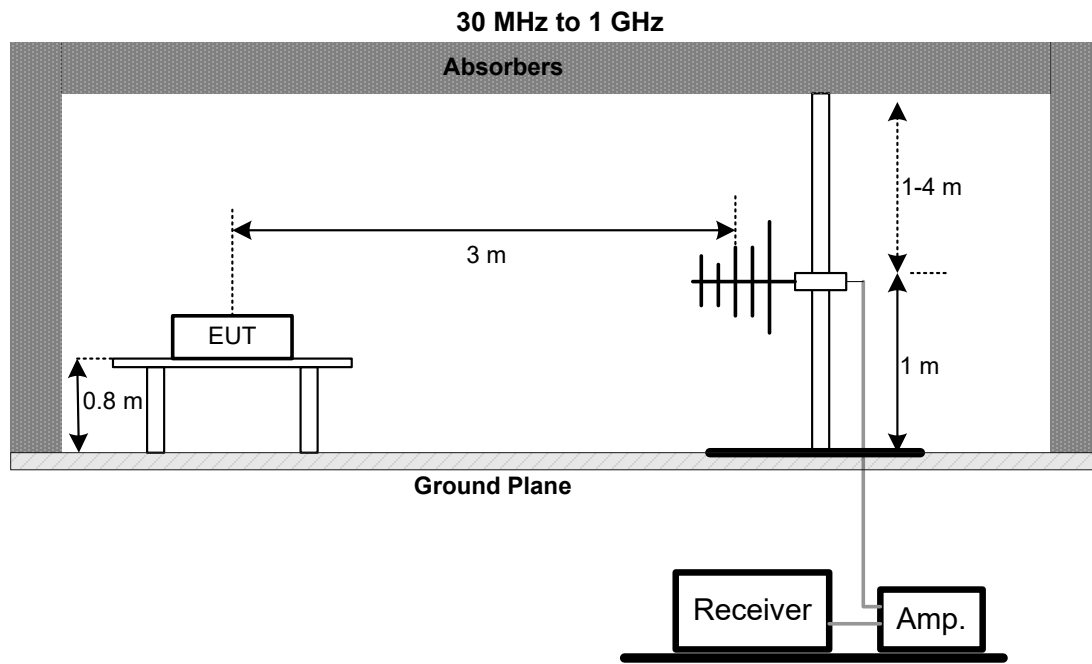
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item – EUT TEST PHOTO.

## 4.3 DEVIATION FROM TEST STANDARD

No deviation.

## 4.4 TEST SETUP





## 4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

**4.6 TEST RESULT – 9kHz TO 30 MHz**

There were no emissions found below 30 MHz within 20 dB of the limit.

**4.7 TEST RESULT – 30 MHz TO 1 GHz**

Please refer to the APPENDIX B.

**4.8 TEST RESULT – ABOVE 1 GHz**

Please refer to the APPENDIX C.

**NOTE:**

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 5 BANDWIDTH TEST

### 5.1 LIMIT

| Section   | Test Item      | Limit   |
|-----------|----------------|---------|
| 15.247(a) | 6 dB Bandwidth | 500 kHz |

### 5.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

### 5.3 DEVIATION FROM TEST STANDARD

No deviation.

### 5.4 TEST SETUP



### 5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 5.6 TEST RESULT

Please refer to the APPENDIX D.

## 6 OUTPUT POWER TEST

### 6.1 LIMIT

| Section   | Test Item            | Limit           |
|-----------|----------------------|-----------------|
| 15.247(b) | Maximum Output Power | 1 Watt or 30dBm |

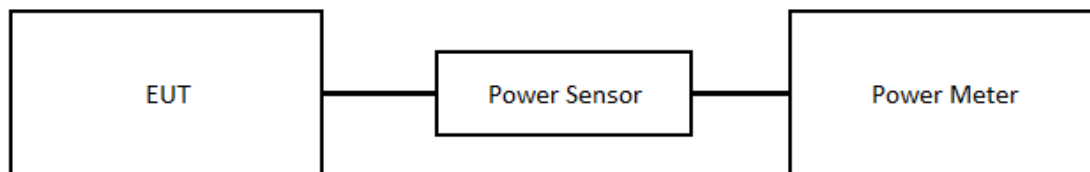
### 6.2 TEST PROCEDURE

- The EUT was directly connected to the Peak Power Analyzer and antenna output port as show in the block diagram below.
- The maximum average conducted output power was performed in accordance with FCC KDB 558074 D01 15.247 Meas Guidance.
- Subclause 11.9.2.3.1 of ANSI C63.10 is applied. The maximum average conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

### 6.3 DEVIATION FROM TEST STANDARD

No deviation.

### 6.4 TEST SETUP



### 6.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.6 TEST RESULT

Please refer to the APPENDIX E.

## 7 POWER SPECTRAL DENSITY

### 7.1 LIMIT

| Section   | Test Item              | Limit                   |
|-----------|------------------------|-------------------------|
| 15.247(e) | Power Spectral Density | 8 dBm<br>(in any 3 kHz) |

### 7.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW = 3 kHz, VBW = 10 kHz, Sweep time = Auto.

### 7.3 DEVIATION FROM TEST STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULT

Please refer to the APPENDIX F.

## 8 ANTENNA CONDUCTED SPURIOUS EMISSIONS TEST

### 8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits.

### 8.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting: RBW = 100 kHz, VBW=300 kHz, Sweep time = Auto.
- Offset = antenna gain + cable loss.

### 8.3 DEVIATION FROM TEST STANDARD

No deviation.

### 8.4 TEST SETUP



### 8.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 8.6 TEST RESULT

Please refer to the APPENDIX G.

## 9 LIST OF MEASURING EQUIPMENTS

### AC Power Line Conducted Emissions

| Item | Kind of Equipment    | Manufacturer | Type No.                 | Serial No. | Calibrated Date | Calibrated Until |
|------|----------------------|--------------|--------------------------|------------|-----------------|------------------|
| 1    | Two-Line V-Network   | R&S          | ENV216                   | 101051     | 2024/6/26       | 2025/6/25        |
| 2    | Test Cable           | EMCI         | EMCRG58-BM-B M-9000      | 210501     | 2024/12/10      | 2025/12/9        |
| 3    | EMC Receiver         | Keysight     | N9038A                   | MY54130009 | 2024/6/27       | 2025/6/26        |
| 4    | Measurement Software | Farad        | EZ EMC (Ver. NB-03A1-01) | N/A        | N/A             | N/A              |

### Radiated Emissions

| Item | Kind of Equipment        | Manufacturer | Type No.                 | Serial No. | Calibrated Date | Calibrated Until |
|------|--------------------------|--------------|--------------------------|------------|-----------------|------------------|
| 1    | Trilog-Broadband Antenna | Schwarzbeck  | VULB 9168                | 01207      | 2024/12/4       | 2025/12/3        |
| 2    | EMC Receiver             | Keysight     | N9038A                   | MY54130009 | 2024/6/27       | 2025/6/26        |
| 3    | Pre-Amplifier            | EMCI         | EMC001330-2020 1222      | 980807     | 2024/12/9       | 2025/12/8        |
| 4    | Test Cable               | EMCI         | EMC-8D-NM-NM-5000        | 150106     | 2024/12/9       | 2025/12/8        |
| 5    | Test Cable               | EMCI         | EMC-CFD-400-N M-NM-8000  | 200348     | 2024/12/9       | 2025/12/8        |
| 6    | Test Cable               | EMCI         | EMC-CFD-400-N M-NM-3300  | 200343     | 2024/12/9       | 2025/12/8        |
| 7    | Broad-Band Horn Antenna  | RFSPIN       | DRH18-E                  | 210109A18E | 2025/1/14       | 2026/1/13        |
| 8    | Pre-Amplifier            | EMCI         | EMC118A45SE              | 981030     | 2024/12/10      | 2025/12/9        |
| 9    | Test Cable               | EMCI         | EMC105-SM-SM-1000        | 210119     | 2024/12/10      | 2025/12/9        |
| 10   | Test Cable               | EMCI         | EMC105-SM-SM-3000        | 210118     | 2024/12/10      | 2025/12/9        |
| 11   | Test Cable               | EMCI         | EMC105-SM-SM-7000        | 210117     | 2024/12/10      | 2025/12/9        |
| 12   | EXA Spectrum Analyzer    | keysight     | N9020B                   | MY59050137 | 2024/11/24      | 2025/11/25       |
| 13   | Pre-Amplifier            | EMCI         | EMC184045SE              | 980512     | 2024/12/10      | 2025/12/9        |
| 14   | Broad-Band Horn Antenna  | Schwarzbeck  | BBHA 9170                | 340        | 2024/6/27       | 2025/6/26        |
| 15   | Test Cable               | EMCI         | EMC102-KM-KM-1000        | 220328     | 2024/12/10      | 2025/12/9        |
| 16   | Test Cable               | EMCI         | EMC101G-KM-KM-3000       | 220330     | 2024/12/10      | 2025/12/9        |
| 17   | Measurement Software     | Farad        | EZ EMC (Ver. NB-03A1-01) | N/A        | N/A             | N/A              |

### Bandwidth

| Item | Kind of Equipment   | Manufacturer | Type No.   | Serial No. | Calibrated Date | Calibrated Until |
|------|---------------------|--------------|------------|------------|-----------------|------------------|
| 1    | Spectrum Analyzer   | R&S          | FSP 30     | 100854     | 2024/6/27       | 2025/6/26        |
| 2    | 10dbAttenuator      | INMET        | AHC-10dB   | 1          | 2024/11/26      | 2025/11/25       |
| 3    | BTL-Conducured Test | BTL          | 1247788684 | N/A        | N/A             | N/A              |

| Output Power |                       |              |                                          |            |                 |                  |
|--------------|-----------------------|--------------|------------------------------------------|------------|-----------------|------------------|
| Item         | Kind of Equipment     | Manufacturer | Type No.                                 | Serial No. | Calibrated Date | Calibrated Until |
| 1            | USB Peak Power Sensor | Anritsu      | MA24408A                                 | 12589      | 2024/10/25      | 2025/10/24       |
| 2            | 10dbAttenuator        | INMET        | AHC-10dB                                 | 1          | 2024/11/26      | 2025/11/25       |
| 3            | Measurement Software  | Anritsu      | MA2440A Peak Power analyzer (Ver1.1.0.0) | N/A        | N/A             | N/A              |

| Power Spectral Density |                    |              |            |            |                 |                  |
|------------------------|--------------------|--------------|------------|------------|-----------------|------------------|
| Item                   | Kind of Equipment  | Manufacturer | Type No.   | Serial No. | Calibrated Date | Calibrated Until |
| 1                      | Spectrum Analyzer  | R&S          | FSP 30     | 100854     | 2024/6/27       | 2025/6/26        |
| 2                      | 10dbAttenuator     | INMET        | AHC-10dB   | 1          | 2024/11/26      | 2025/11/25       |
| 3                      | BTL-Conducred Test | BTL          | 1247788684 | N/A        | N/A             | N/A              |

| Antenna conducted Spurious Emission |                    |              |            |            |                 |                  |
|-------------------------------------|--------------------|--------------|------------|------------|-----------------|------------------|
| Item                                | Kind of Equipment  | Manufacturer | Type No.   | Serial No. | Calibrated Date | Calibrated Until |
| 1                                   | Spectrum Analyzer  | R&S          | FSP 30     | 100854     | 2024/6/27       | 2025/6/26        |
| 2                                   | 10dbAttenuator     | INMET        | AHC-10dB   | 1          | 2024/11/26      | 2025/11/25       |
| 3                                   | BTL-Conducred Test | BTL          | 1247788684 | N/A        | N/A             | N/A              |

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.  
All calibration period of equipment list is one year.

**10 EUT TEST PHOTO**

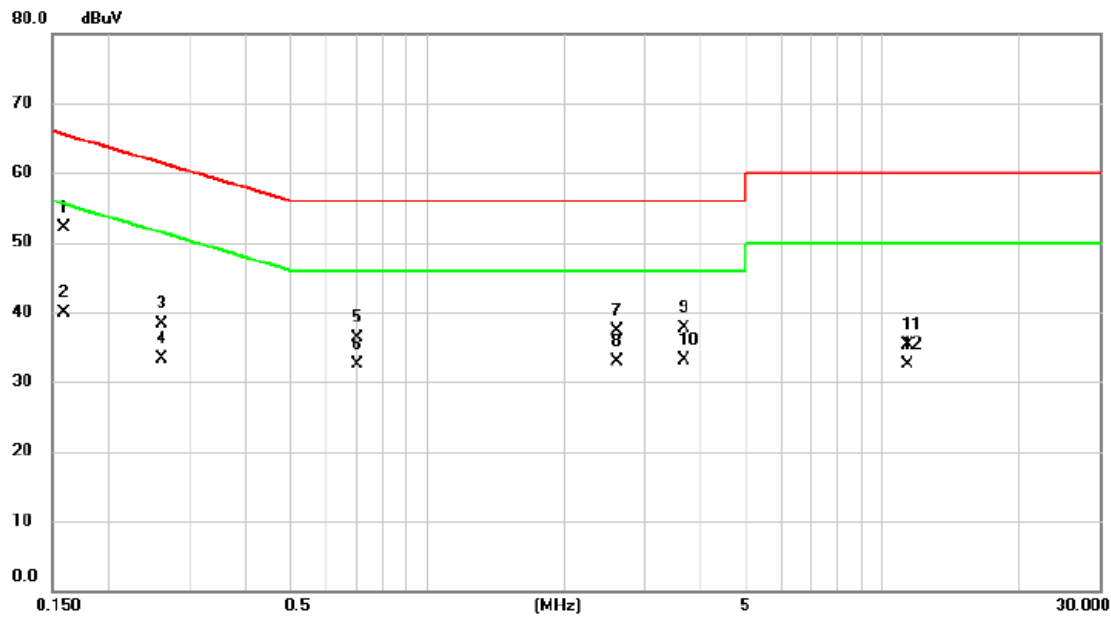
Please refer to document Appendix No.: TP-2503G008-1 (APPENDIX-TEST PHOTOS).

**11 EUT PHOTOS**

Please refer to document Appendix No.: EP-2503G008-1 (APPENDIX-EUT PHOTOS).

## **APPENDIX A    AC POWER LINE CONDUCTED EMISSIONS**

|                |        |           |           |
|----------------|--------|-----------|-----------|
| Test Mode      | Normal | Test Date | 2025/6/10 |
| Test Frequency | -      | Phase     | Line      |

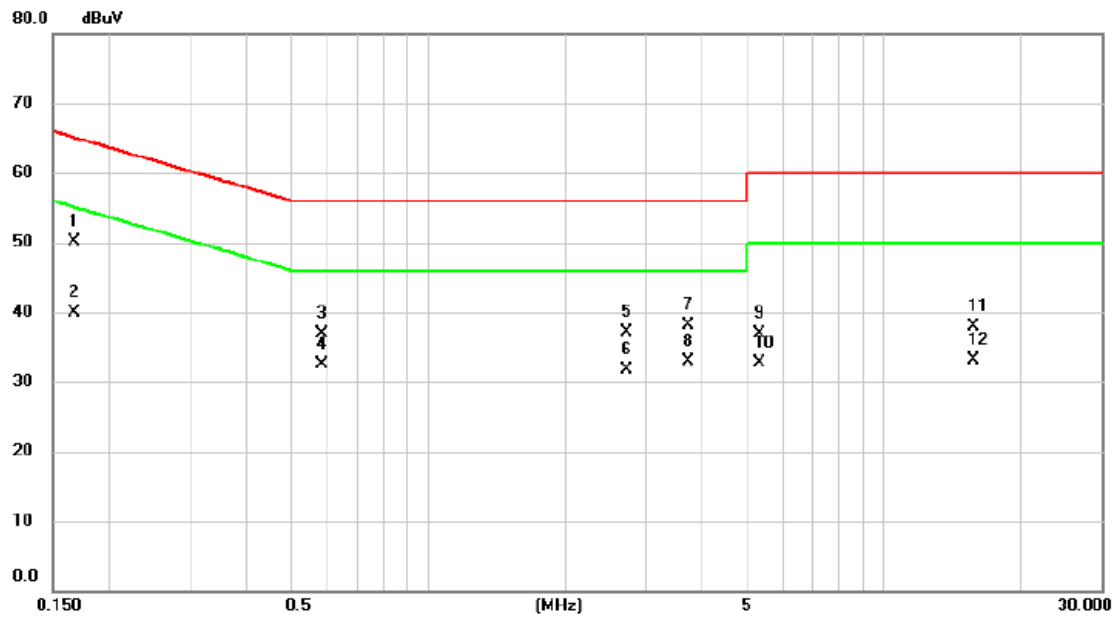


| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.1598       | 42.50                    | 9.64                    | 52.14                    | 65.47         | -13.33       | QP       |         |
| 2   |     | 0.1598       | 30.26                    | 9.64                    | 39.90                    | 55.47         | -15.57       | AVG      |         |
| 3   |     | 0.2606       | 28.68                    | 9.61                    | 38.29                    | 61.41         | -23.12       | QP       |         |
| 4   |     | 0.2606       | 23.61                    | 9.61                    | 33.22                    | 51.41         | -18.19       | AVG      |         |
| 5   |     | 0.7025       | 26.73                    | 9.62                    | 36.35                    | 56.00         | -19.65       | QP       |         |
| 6   |     | 0.7025       | 22.87                    | 9.62                    | 32.49                    | 46.00         | -13.51       | AVG      |         |
| 7   |     | 2.6105       | 27.50                    | 9.74                    | 37.24                    | 56.00         | -18.76       | QP       |         |
| 8   |     | 2.6105       | 23.12                    | 9.74                    | 32.86                    | 46.00         | -13.14       | AVG      |         |
| 9   |     | 3.6590       | 28.00                    | 9.78                    | 37.78                    | 56.00         | -18.22       | QP       |         |
| 10  | *   | 3.6590       | 23.28                    | 9.78                    | 33.06                    | 46.00         | -12.94       | AVG      |         |
| 11  |     | 11.3750      | 25.25                    | 10.03                   | 35.28                    | 60.00         | -24.72       | QP       |         |
| 12  |     | 11.3750      | 22.44                    | 10.03                   | 32.47                    | 50.00         | -17.53       | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |        |           |           |
|----------------|--------|-----------|-----------|
| Test Mode      | Normal | Test Date | 2025/6/10 |
| Test Frequency | -      | Phase     | Neutral   |



| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.1675  | 40.49         | 9.62           | 50.11       | 65.08 | -14.97 | QP       |         |
| 2   |     | 0.1675  | 30.26         | 9.62           | 39.88       | 55.08 | -15.20 | AVG      |         |
| 3   |     | 0.5855  | 27.27         | 9.61           | 36.88       | 56.00 | -19.12 | QP       |         |
| 4   |     | 0.5855  | 22.89         | 9.61           | 32.50       | 46.00 | -13.50 | AVG      |         |
| 5   |     | 2.7230  | 27.40         | 9.74           | 37.14       | 56.00 | -18.86 | QP       |         |
| 6   |     | 2.7230  | 22.04         | 9.74           | 31.78       | 46.00 | -14.22 | AVG      |         |
| 7   |     | 3.7265  | 28.26         | 9.78           | 38.04       | 56.00 | -17.96 | QP       |         |
| 8   | *   | 3.7265  | 23.16         | 9.78           | 32.94       | 46.00 | -13.06 | AVG      |         |
| 9   |     | 5.3500  | 26.97         | 9.84           | 36.81       | 60.00 | -23.19 | QP       |         |
| 10  |     | 5.3500  | 22.85         | 9.84           | 32.69       | 50.00 | -17.31 | AVG      |         |
| 11  |     | 15.7250 | 27.69         | 10.19          | 37.88       | 60.00 | -22.12 | QP       |         |
| 12  |     | 15.7250 | 22.99         | 10.19          | 33.18       | 50.00 | -16.82 | AVG      |         |

## REMARKS:

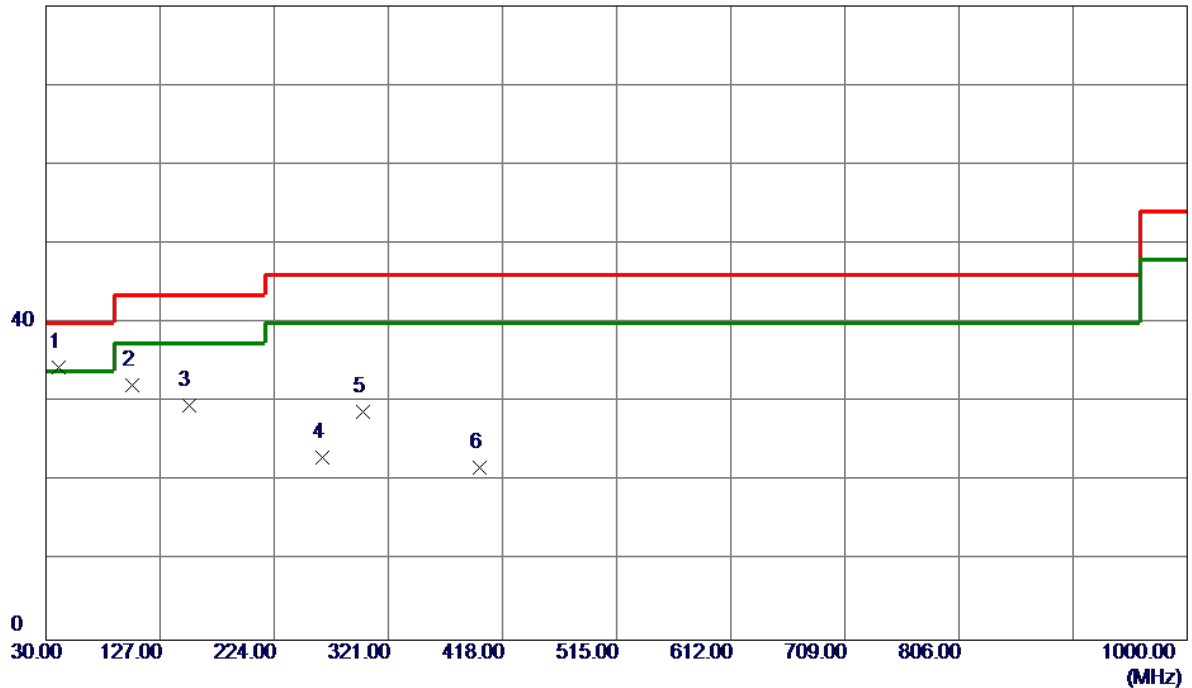
(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX B    RADIATED EMISSIONS - 30 MHZ TO 1 GHZ**

|                |              |              |          |
|----------------|--------------|--------------|----------|
| Test Mode      | IEEE 802.11b | Test Date    | 2025/6/9 |
| Test Frequency | 2437MHz      | Polarization | Vertical |

80 dBuV/m



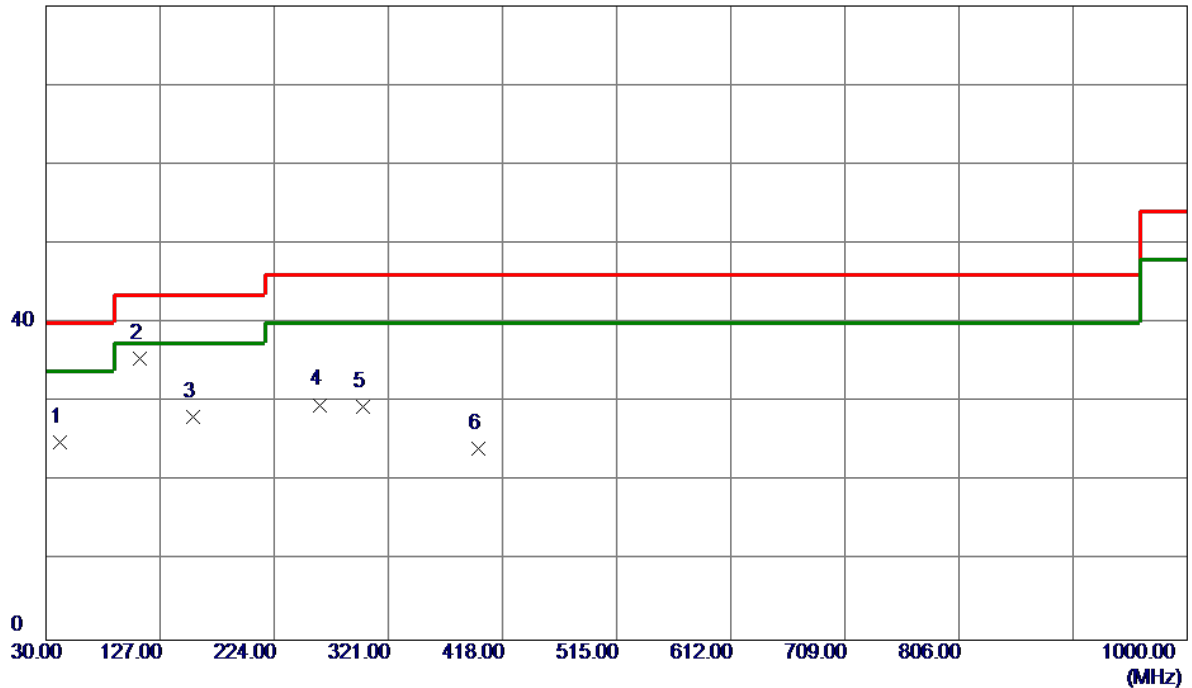
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1 * | 40.6699      | 46.24                      | -11.83                  | 34.41                     | 40.00           | -5.59        | Peak     |         |
| 2   | 103.7200     | 47.74                      | -15.52                  | 32.22                     | 43.50           | -11.28       | Peak     |         |
| 3   | 151.2500     | 40.53                      | -10.99                  | 29.54                     | 43.50           | -13.96       | Peak     |         |
| 4   | 264.7400     | 34.29                      | -11.18                  | 23.11                     | 46.00           | -22.89       | Peak     |         |
| 5   | 299.6600     | 38.85                      | -10.00                  | 28.85                     | 46.00           | -17.15       | Peak     |         |
| 6   | 398.6000     | 28.74                      | -7.05                   | 21.69                     | 46.00           | -24.31       | Peak     |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |            |
|----------------|--------------|--------------|------------|
| Test Mode      | IEEE 802.11b | Test Date    | 2025/6/9   |
| Test Frequency | 2437MHz      | Polarization | Horizontal |

80 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 41.6400      | 36.69                      | -11.74                  | 24.95                     | 40.00           | -15.05       | Peak     |         |
| 2 * | 109.5400     | 50.08                      | -14.60                  | 35.48                     | 43.50           | -8.02        | Peak     |         |
| 3   | 155.1300     | 39.22                      | -11.04                  | 28.18                     | 43.50           | -15.32       | Peak     |         |
| 4   | 262.8000     | 40.96                      | -11.28                  | 29.68                     | 46.00           | -16.32       | Peak     |         |
| 5   | 299.6600     | 39.43                      | -10.00                  | 29.43                     | 46.00           | -16.57       | Peak     |         |
| 6   | 397.6300     | 31.24                      | -7.08                   | 24.16                     | 46.00           | -21.84       | Peak     |         |

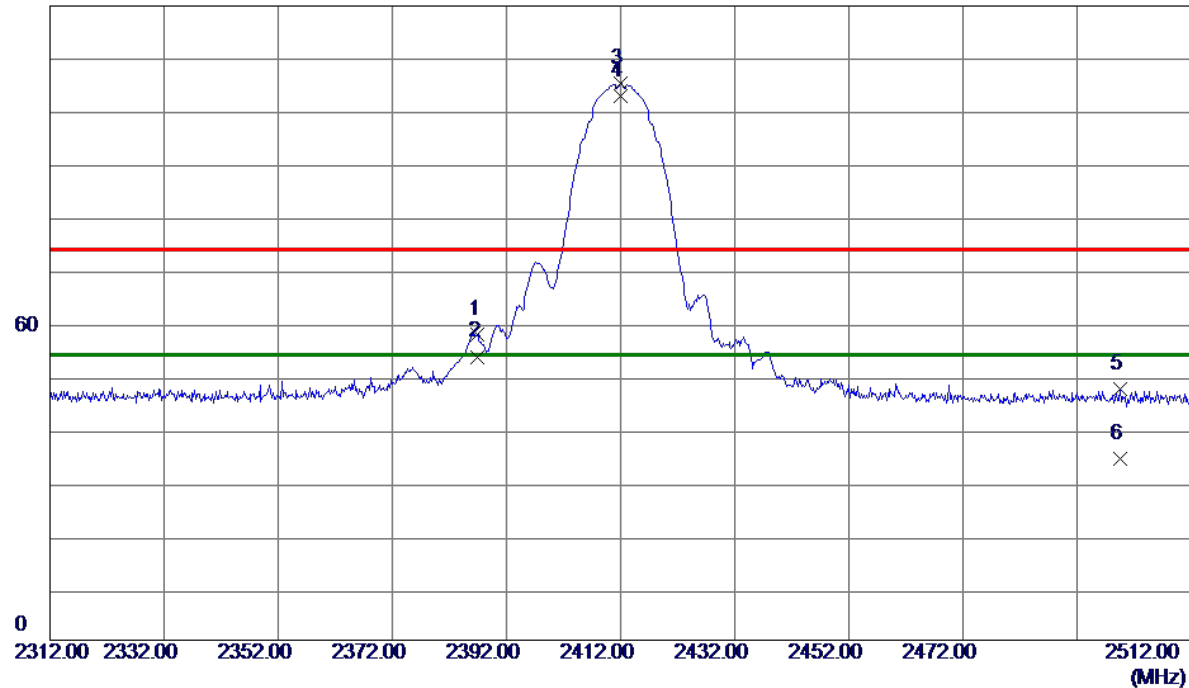
## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX C    RADIATED EMISSIONS - ABOVE 1 GHZ**

|                |              |              |          |
|----------------|--------------|--------------|----------|
| Test Mode      | IEEE 802.11b | Test Date    | 2025/6/9 |
| Test Frequency | 2412MHz      | Polarization | Vertical |

120 dBuV/m



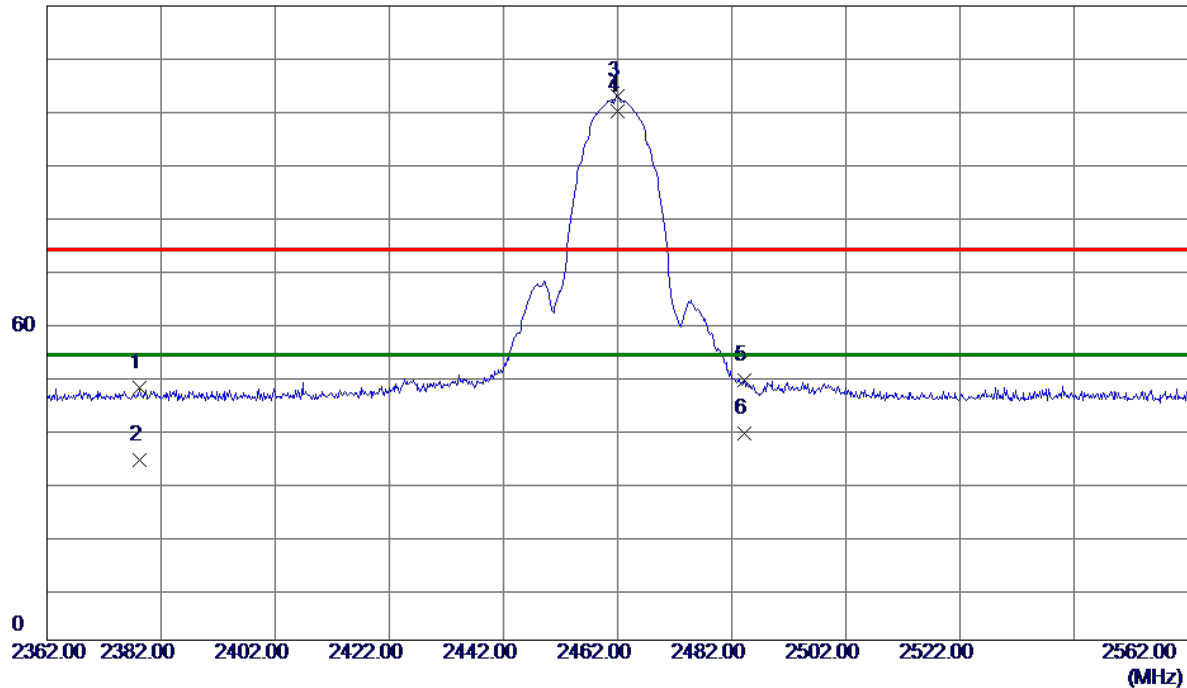
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2387.0000    | 54.58                      | 3.36                    | 57.94                     | 74.00           | -16.06       | Peak     |          |
| 2   | 2387.0000    | 50.28                      | 3.36                    | 53.64                     | 54.00           | -0.36        | AVG      |          |
| 3   | 2412.0000    | 102.03                     | 3.39                    | 105.42                    | 74.00           | 31.42        | Peak     | No Limit |
| 4 * | 2412.0000    | 99.67                      | 3.39                    | 103.06                    | 54.00           | 49.06        | AVG      | No Limit |
| 5   | 2499.6000    | 43.98                      | 3.47                    | 47.45                     | 74.00           | -26.55       | Peak     |          |
| 6   | 2499.6000    | 30.86                      | 3.47                    | 34.33                     | 54.00           | -19.67       | AVG      |          |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |          |
|----------------|--------------|--------------|----------|
| Test Mode      | IEEE 802.11b | Test Date    | 2025/6/9 |
| Test Frequency | 2462MHz      | Polarization | Vertical |

120 dBuV/m



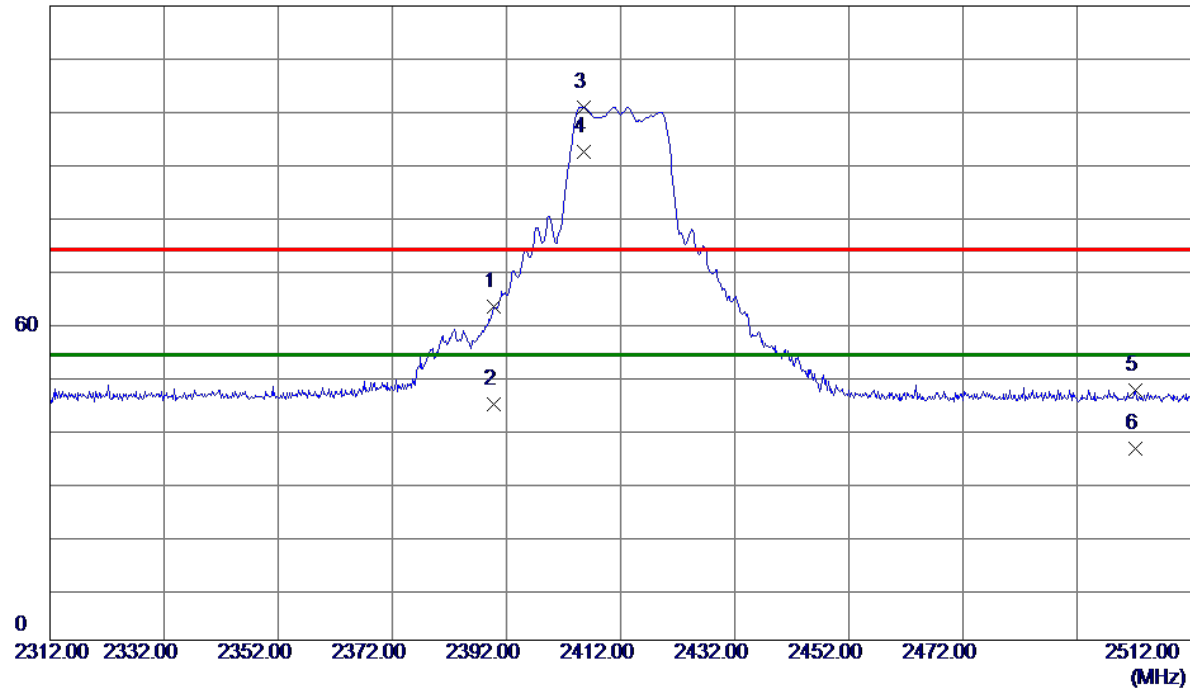
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2378.2000    | 44.33                      | 3.35                    | 47.68                     | 74.00           | -26.32       | Peak     |          |
| 2   | 2378.2000    | 30.66                      | 3.35                    | 34.01                     | 54.00           | -19.99       | AVG      |          |
| 3   | 2462.0000    | 99.53                      | 3.43                    | 102.96                    | 74.00           | 28.96        | Peak     | No Limit |
| 4 * | 2462.0000    | 96.63                      | 3.43                    | 100.06                    | 54.00           | 46.06        | AVG      | No Limit |
| 5   | 2484.2000    | 45.65                      | 3.45                    | 49.10                     | 74.00           | -24.90       | Peak     |          |
| 6   | 2484.2000    | 35.59                      | 3.45                    | 39.04                     | 54.00           | -14.96       | AVG      |          |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |          |
|----------------|--------------|--------------|----------|
| Test Mode      | IEEE 802.11g | Test Date    | 2025/6/9 |
| Test Frequency | 2412MHz      | Polarization | Vertical |

120 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2389.8000    | 59.78                      | 3.36                    | 63.14                     | 74.00           | -10.86       | Peak     |          |
| 2   | 2389.8000    | 41.37                      | 3.36                    | 44.73                     | 54.00           | -9.27        | AVG      |          |
| 3   | 2405.6000    | 97.53                      | 3.38                    | 100.91                    | 74.00           | 26.91        | Peak     | No Limit |
| 4 * | 2405.6000    | 88.92                      | 3.38                    | 92.30                     | 54.00           | 38.30        | AVG      | No Limit |
| 5   | 2502.2000    | 43.82                      | 3.48                    | 47.30                     | 74.00           | -26.70       | Peak     |          |
| 6   | 2502.2000    | 32.87                      | 3.48                    | 36.35                     | 54.00           | -17.65       | AVG      |          |

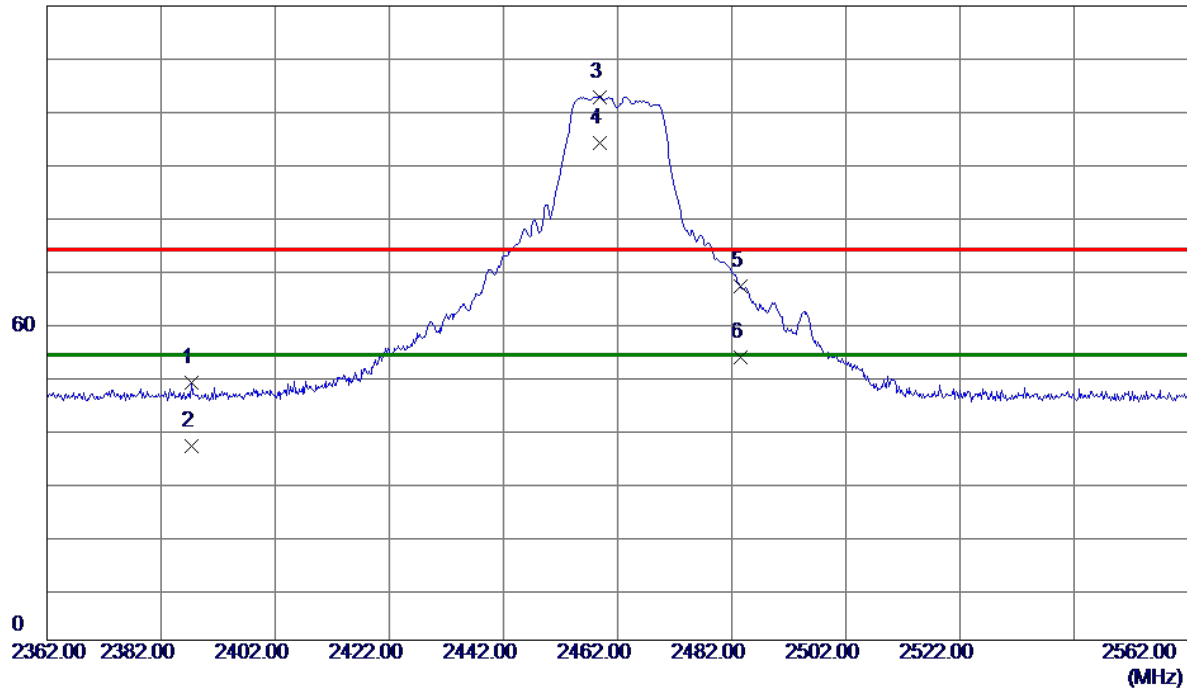
## REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|                |              |              |          |
|----------------|--------------|--------------|----------|
| Test Mode      | IEEE 802.11g | Test Date    | 2025/6/9 |
| Test Frequency | 2462MHz      | Polarization | Vertical |

120 dBuV/m



| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2387.4000    | 45.29                      | 3.36                    | 48.65                     | 74.00           | -25.35       | Peak     |          |
| 2   | 2387.4000    | 33.28                      | 3.36                    | 36.64                     | 54.00           | -17.36       | AVG      |          |
| 3   | 2458.8000    | 99.41                      | 3.43                    | 102.84                    | 74.00           | 28.84        | Peak     | No Limit |
| 4 * | 2458.8000    | 90.55                      | 3.43                    | 93.98                     | 54.00           | 39.98        | AVG      | No Limit |
| 5   | 2483.6000    | 63.58                      | 3.45                    | 67.03                     | 74.00           | -6.97        | Peak     |          |
| 6   | 2483.6000    | 50.14                      | 3.45                    | 53.59                     | 54.00           | -0.41        | AVG      |          |

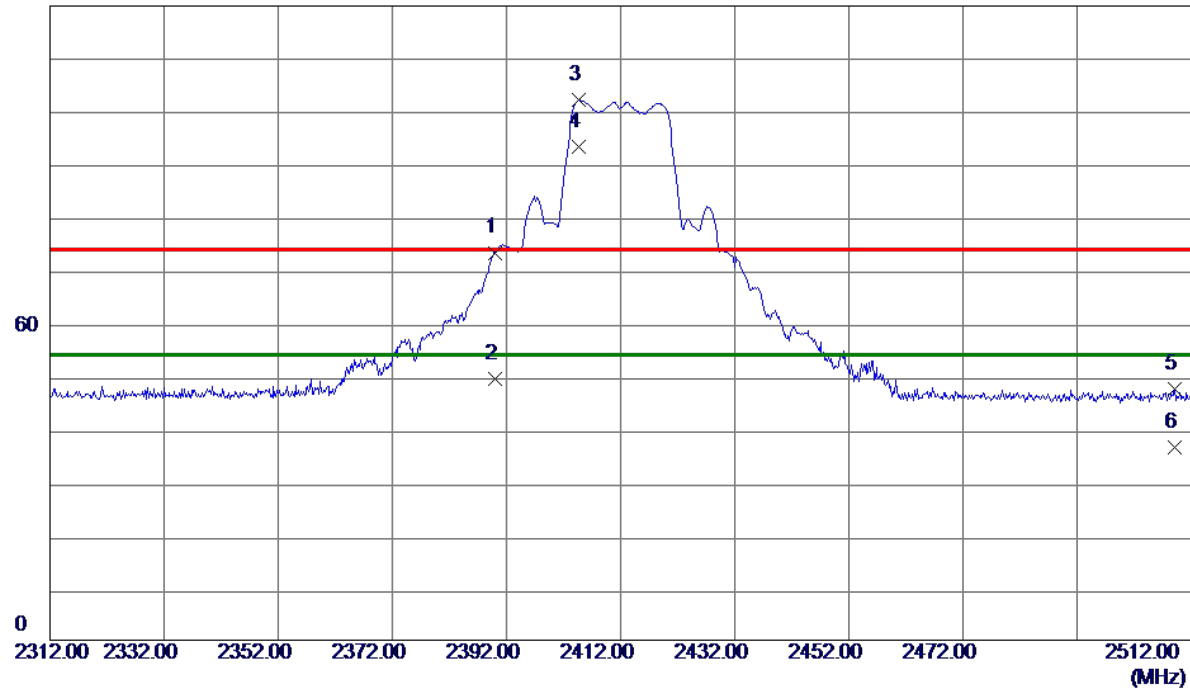
## REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.

|                |                     |              |          |
|----------------|---------------------|--------------|----------|
| Test Mode      | IEEE 802.11n (HT20) | Test Date    | 2025/6/9 |
| Test Frequency | 2412MHz             | Polarization | Vertical |

120 dBuV/m



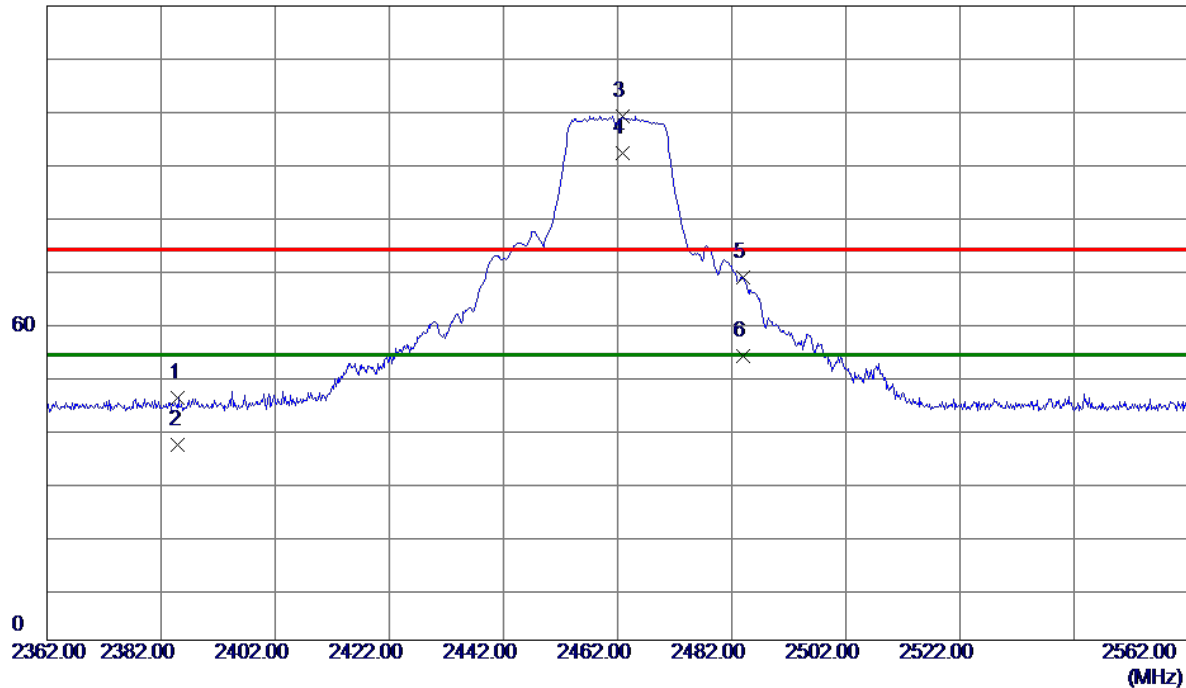
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2390.0000    | 69.96                      | 3.36                    | 73.32                     | 74.00           | -0.68        | Peak     |          |
| 2   | 2390.0000    | 46.12                      | 3.36                    | 49.48                     | 54.00           | -4.52        | AVG      |          |
| 3   | 2404.6000    | 98.77                      | 3.38                    | 102.15                    | 74.00           | 28.15        | Peak     | No Limit |
| 4 * | 2404.6000    | 90.09                      | 3.38                    | 93.47                     | 54.00           | 39.47        | AVG      | No Limit |
| 5   | 2509.2000    | 43.98                      | 3.50                    | 47.48                     | 74.00           | -26.52       | Peak     |          |
| 6   | 2509.2000    | 32.96                      | 3.50                    | 36.46                     | 54.00           | -17.54       | AVG      |          |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |                     |              |          |
|----------------|---------------------|--------------|----------|
| Test Mode      | IEEE 802.11n (HT20) | Test Date    | 2025/6/9 |
| Test Frequency | 2462MHz             | Polarization | Vertical |

120 dBuV/m



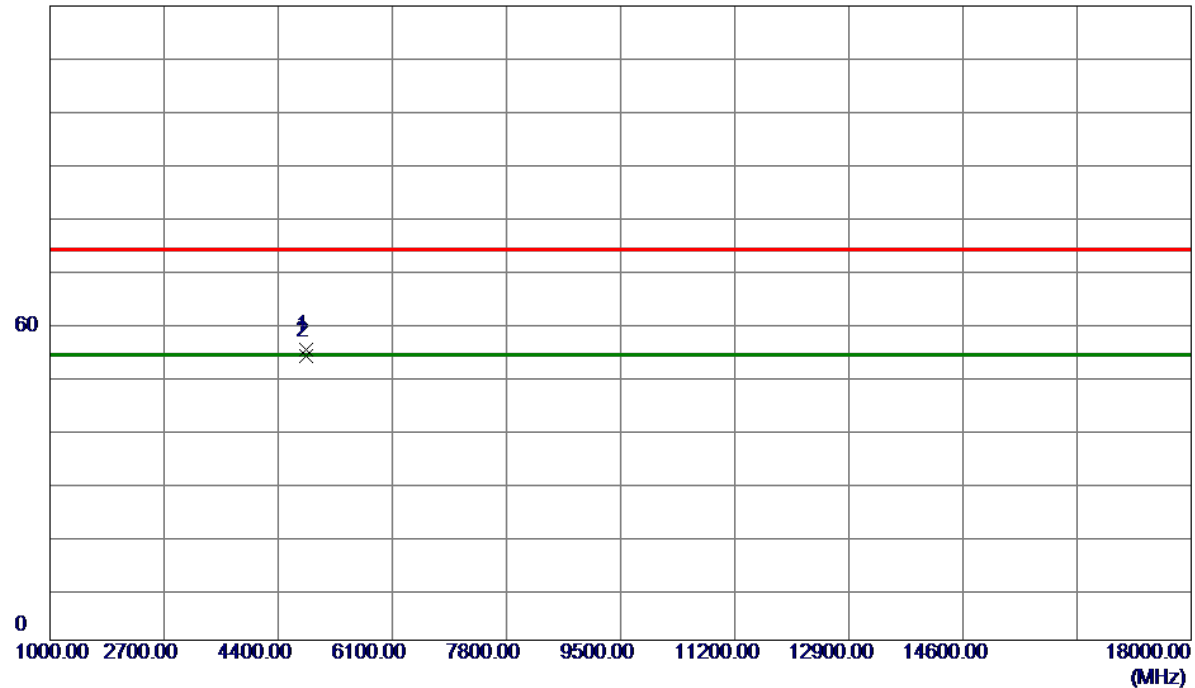
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment  |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|----------|
| 1   | 2385.0000    | 42.54                      | 3.36                    | 45.90                     | 74.00           | -28.10       | Peak     |          |
| 2   | 2385.0000    | 33.65                      | 3.36                    | 37.01                     | 54.00           | -16.99       | AVG      |          |
| 3   | 2462.8000    | 95.76                      | 3.43                    | 99.19                     | 74.00           | 25.19        | Peak     | No Limit |
| 4 * | 2462.8000    | 88.80                      | 3.43                    | 92.23                     | 54.00           | 38.23        | AVG      | No Limit |
| 5   | 2484.0000    | 65.25                      | 3.45                    | 68.70                     | 74.00           | -5.30        | Peak     |          |
| 6   | 2484.0000    | 50.39                      | 3.45                    | 53.84                     | 54.00           | -0.16        | AVG      |          |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |            |
|----------------|--------------|--------------|------------|
| Test Mode      | IEEE 802.11b | Test Date    | 2025/6/9   |
| Test Frequency | 2412MHz      | Polarization | Horizontal |

120 dBuV/m



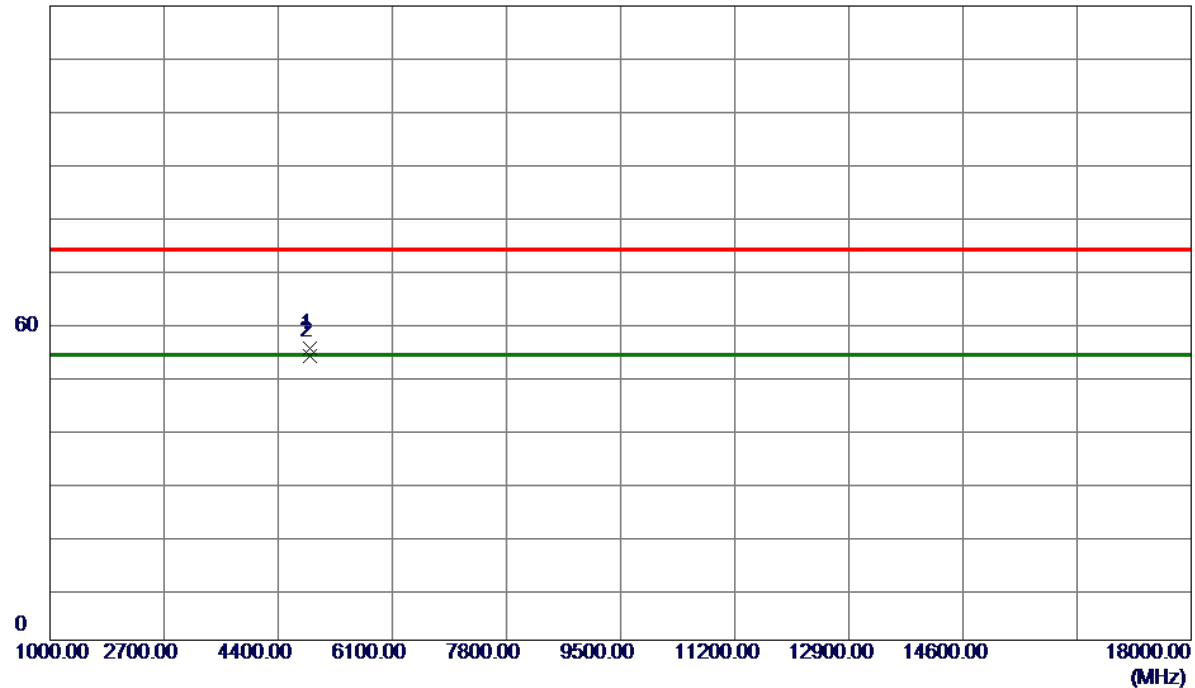
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4824.0000    | 56.54                      | -1.70                   | 54.84                     | 74.00           | -19.16       | Peak     |         |
| 2 * | 4824.0000    | 55.37                      | -1.70                   | 53.67                     | 54.00           | -0.33        | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |            |
|----------------|--------------|--------------|------------|
| Test Mode      | IEEE 802.11b | Test Date    | 2025/6/9   |
| Test Frequency | 2437MHz      | Polarization | Horizontal |

120 dBuV/m



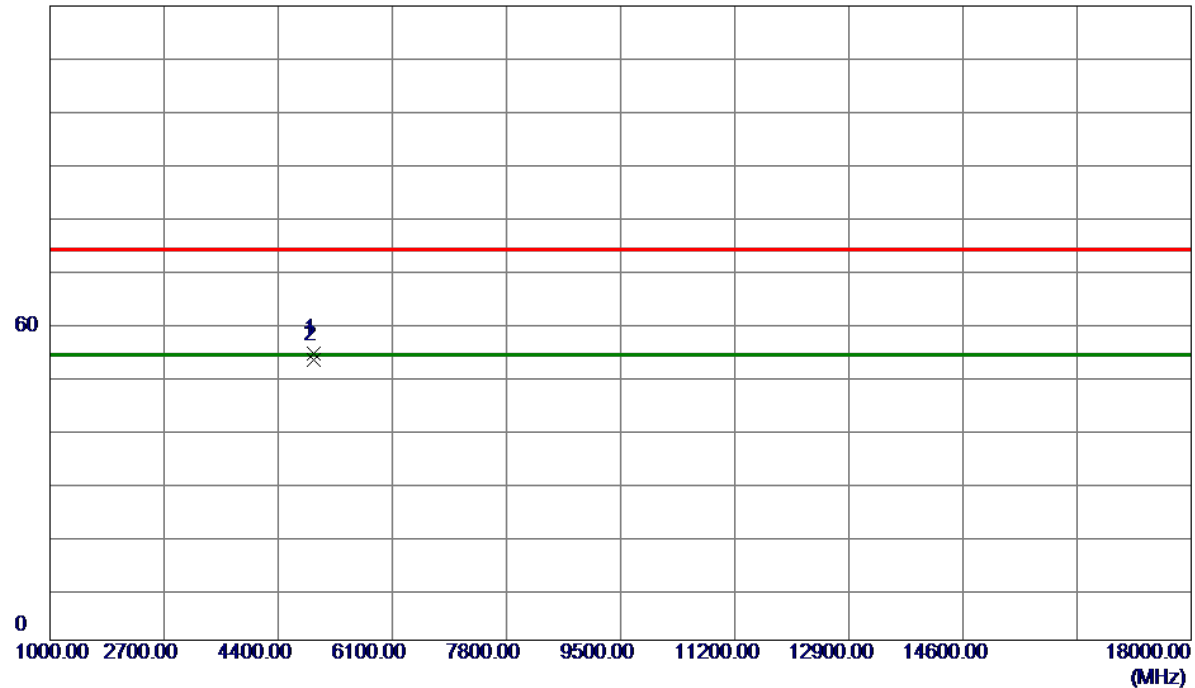
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4874.0000    | 56.79                      | -1.63                   | 55.16                     | 74.00           | -18.84       | Peak     |         |
| 2 * | 4874.0000    | 55.40                      | -1.63                   | 53.77                     | 54.00           | -0.23        | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |            |
|----------------|--------------|--------------|------------|
| Test Mode      | IEEE 802.11b | Test Date    | 2025/6/9   |
| Test Frequency | 2462MHz      | Polarization | Horizontal |

120 dBuV/m



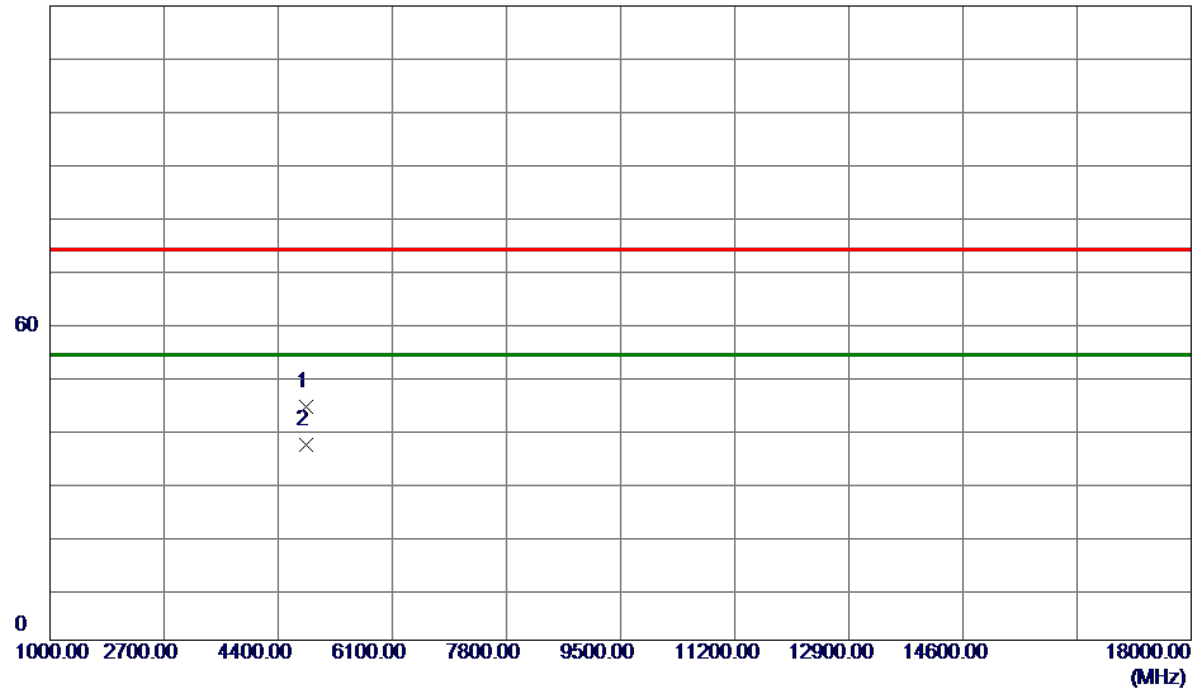
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4924.0000    | 55.70                      | -1.57                   | 54.13                     | 74.00           | -19.87       | Peak     |         |
| 2 * | 4924.0000    | 54.50                      | -1.57                   | 52.93                     | 54.00           | -1.07        | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |            |
|----------------|--------------|--------------|------------|
| Test Mode      | IEEE 802.11g | Test Date    | 2025/6/9   |
| Test Frequency | 2412MHz      | Polarization | Horizontal |

120 dBuV/m



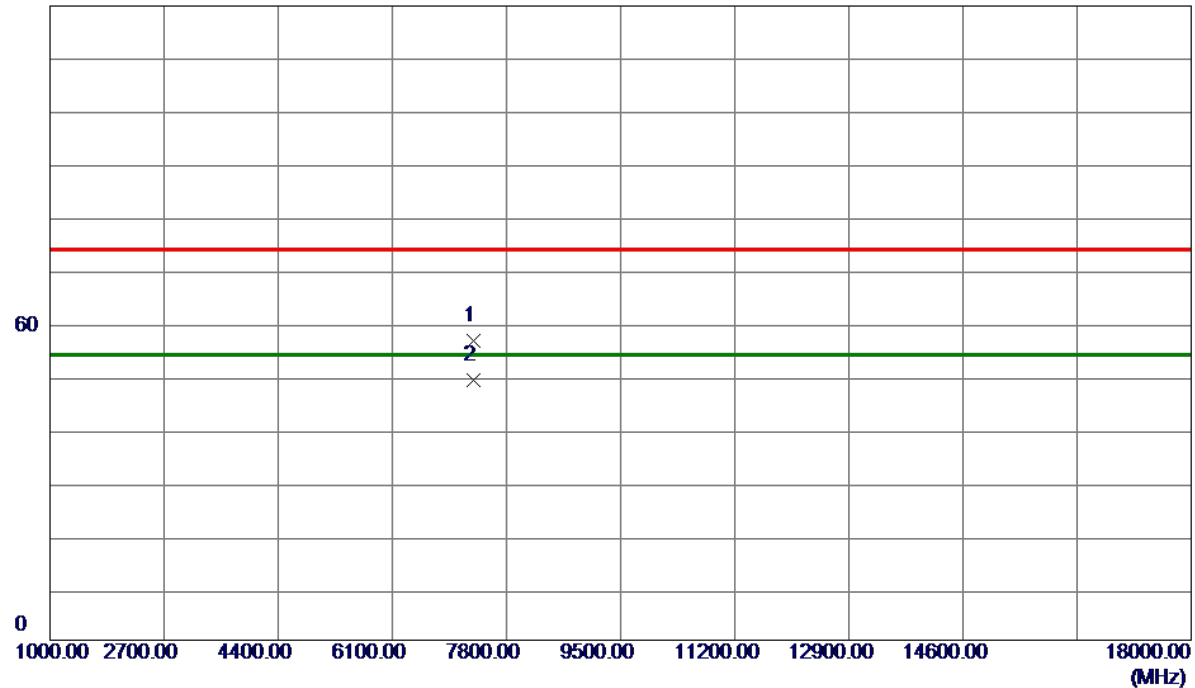
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4824.0000    | 45.87                      | -1.70                   | 44.17                     | 74.00           | -29.83       | Peak     |         |
| 2 * | 4824.0000    | 38.72                      | -1.70                   | 37.02                     | 54.00           | -16.98       | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

|                |              |              |            |
|----------------|--------------|--------------|------------|
| Test Mode      | IEEE 802.11g | Test Date    | 2025/6/9   |
| Test Frequency | 2437MHz      | Polarization | Horizontal |

120 dBuV/m



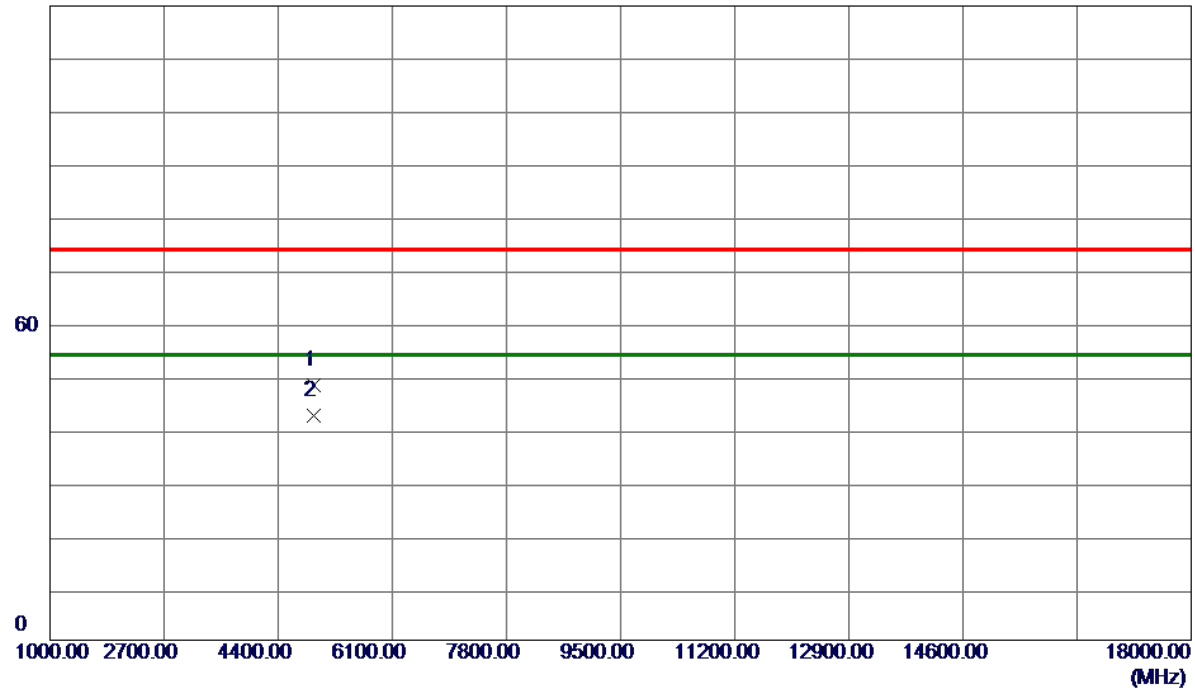
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 7311.0000    | 51.58                      | 5.01                    | 56.59                     | 74.00           | -17.41       | Peak     |         |
| 2 * | 7311.0000    | 44.09                      | 5.01                    | 49.10                     | 54.00           | -4.90        | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |            |
|----------------|--------------|--------------|------------|
| Test Mode      | IEEE 802.11g | Test Date    | 2025/6/9   |
| Test Frequency | 2462MHz      | Polarization | Horizontal |

120 dBuV/m



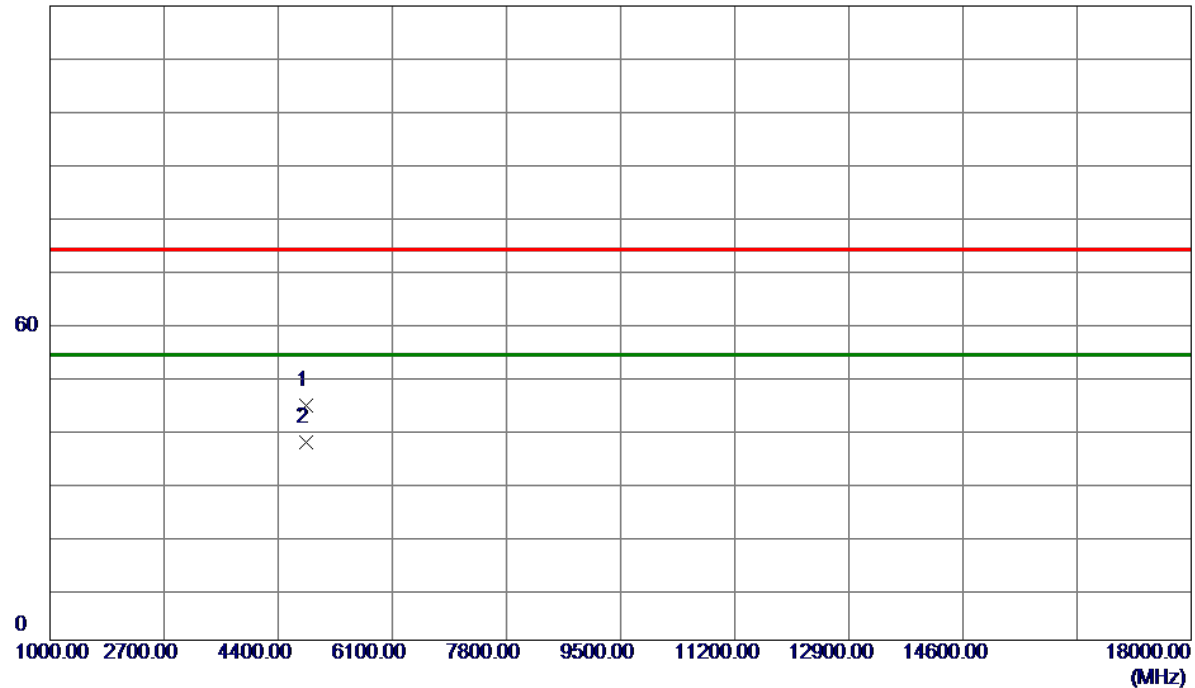
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4924.0000    | 49.74                      | -1.57                   | 48.17                     | 74.00           | -25.83       | Peak     |         |
| 2 * | 4924.0000    | 44.11                      | -1.57                   | 42.54                     | 54.00           | -11.46       | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |                     |              |            |
|----------------|---------------------|--------------|------------|
| Test Mode      | IEEE 802.11n (HT20) | Test Date    | 2025/6/9   |
| Test Frequency | 2412MHz             | Polarization | Horizontal |

120 dBuV/m



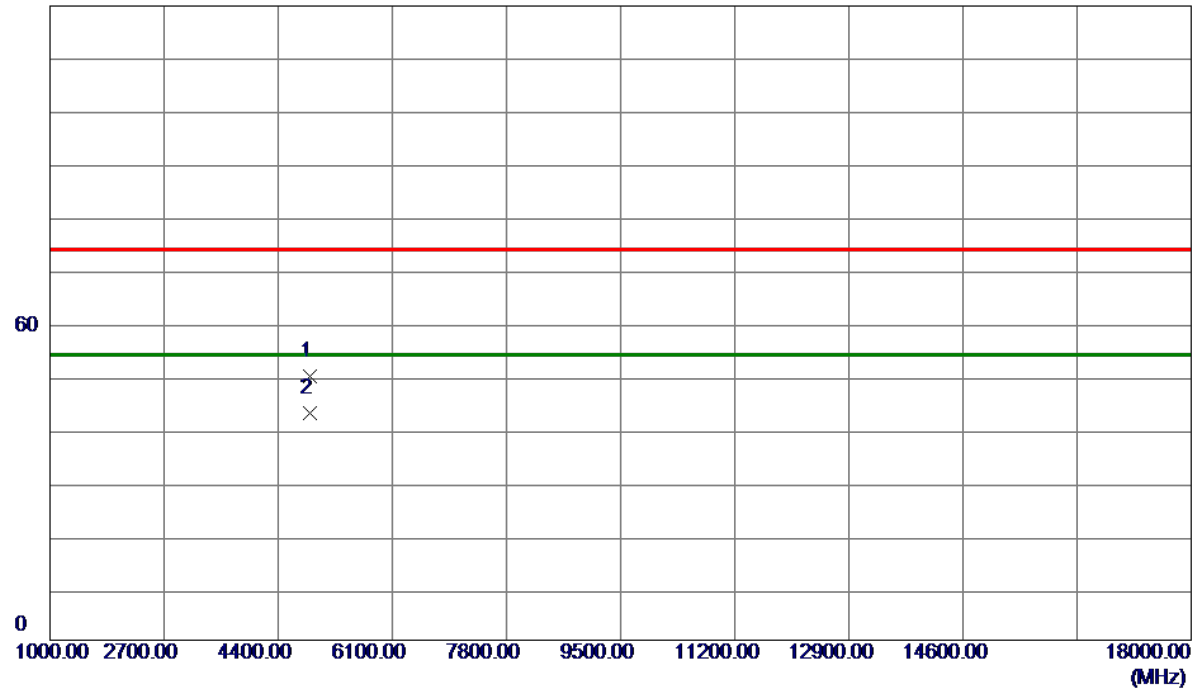
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4824.0000    | 46.21                      | -1.70                   | 44.51                     | 74.00           | -29.49       | Peak     |         |
| 2 * | 4824.0000    | 39.11                      | -1.70                   | 37.41                     | 54.00           | -16.59       | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |                     |              |            |
|----------------|---------------------|--------------|------------|
| Test Mode      | IEEE 802.11n (HT20) | Test Date    | 2025/6/9   |
| Test Frequency | 2437MHz             | Polarization | Horizontal |

120 dBuV/m



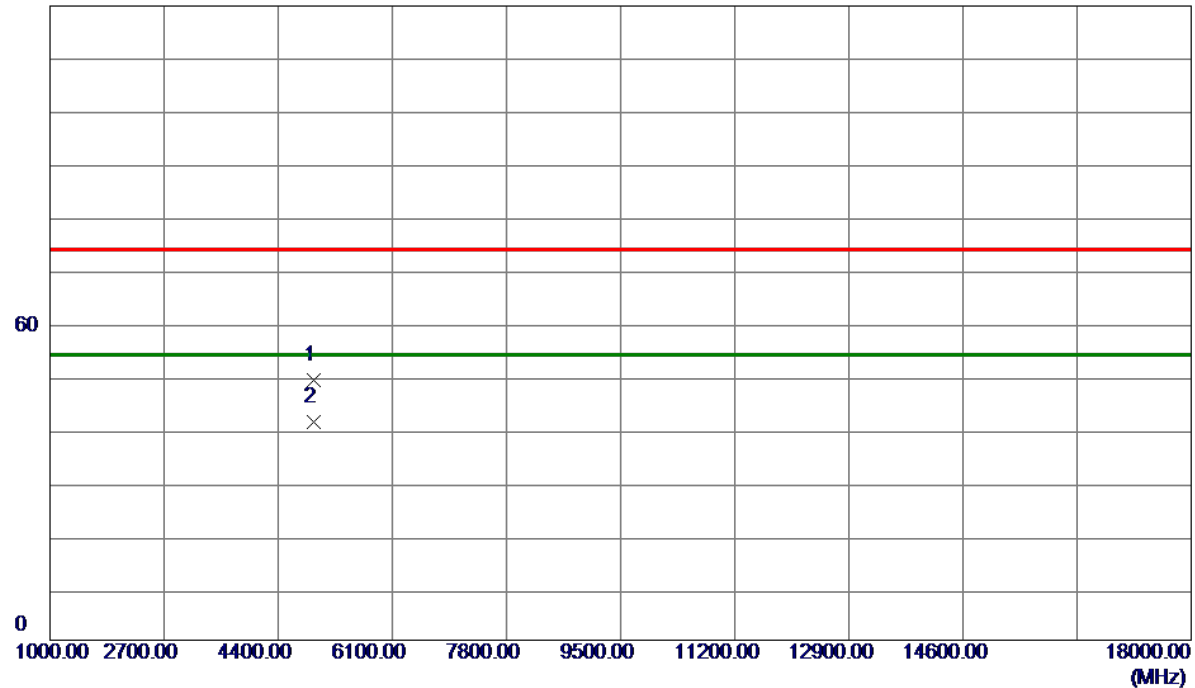
| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4874.0000    | 51.66                      | -1.63                   | 50.03                     | 74.00           | -23.97       | Peak     |         |
| 2 * | 4874.0000    | 44.65                      | -1.63                   | 43.02                     | 54.00           | -10.98       | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |                     |              |            |
|----------------|---------------------|--------------|------------|
| Test Mode      | IEEE 802.11n (HT20) | Test Date    | 2025/6/9   |
| Test Frequency | 2462MHz             | Polarization | Horizontal |

120 dBuV/m

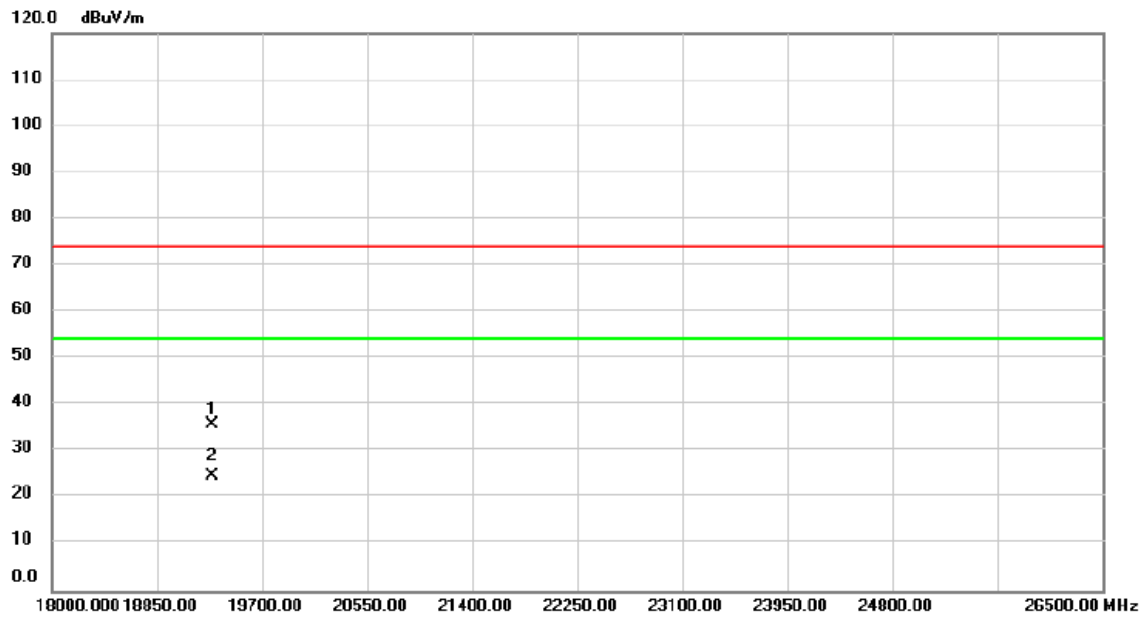


| No. | Freq.<br>MHz | Reading<br>Level<br>dBuV/m | Correct<br>Factor<br>dB | Measure<br>ment<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | Detector | Comment |
|-----|--------------|----------------------------|-------------------------|---------------------------|-----------------|--------------|----------|---------|
| 1   | 4924.0000    | 50.77                      | -1.57                   | 49.20                     | 74.00           | -24.80       | Peak     |         |
| 2 * | 4924.0000    | 42.95                      | -1.57                   | 41.38                     | 54.00           | -12.62       | AVG      |         |

## REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

|                |              |              |            |
|----------------|--------------|--------------|------------|
| Test Mode      | IEEE 802.11b | Test Date    | 2025/6/9   |
| Test Frequency | 2412MHz      | Polarization | Horizontal |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1   |     | 19296.00     | 45.72                    | -10.01                  | 35.71                      | 74.00           | -38.29     | peak     |         |
| 2   | *   | 19296.00     | 34.75                    | -10.01                  | 24.74                      | 54.00           | -29.26     | AVG      |         |

## REMARKS:

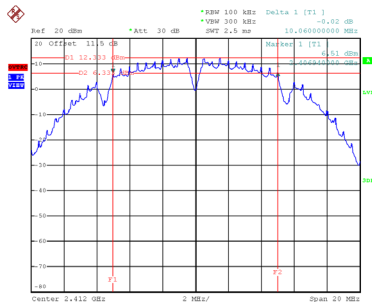
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## APPENDIX D BANDWIDTH

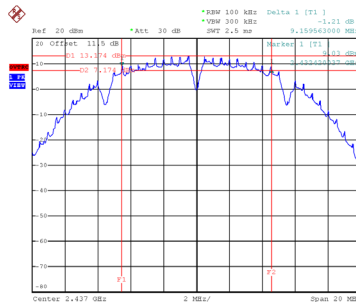
|           |              |
|-----------|--------------|
| Test Mode | IEEE 802.11b |
|-----------|--------------|

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (MHz) | Result   |
|---------|-----------------|----------------------|-------------------------------|---------------------------------|----------|
| 01      | 2412            | 10.060               | 13.760                        | 0.5                             | Complies |
| 06      | 2437            | 9.160                | 13.600                        | 0.5                             | Complies |
| 11      | 2462            | 10.070               | 13.520                        | 0.5                             | Complies |

CH01

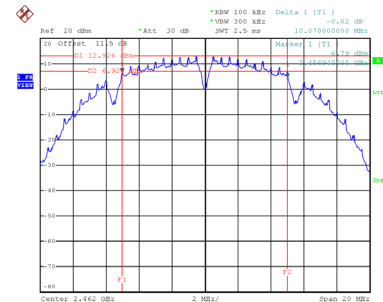


Date: 5.JUN.2025 09:39:24

CH06  
6 dB Bandwidth


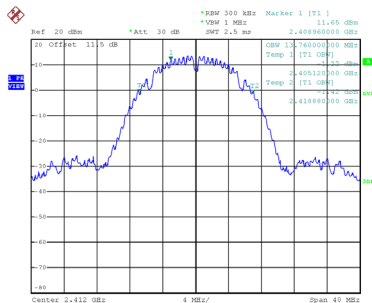
Date: 5.JUN.2025 10:09:49

CH11

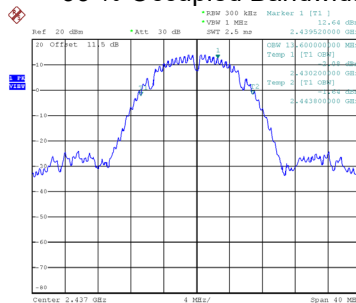


Date: 5.JUN.2025 10:13:14

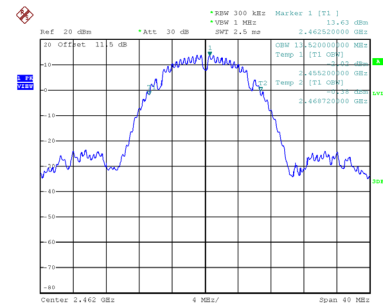
99 % Occupied Bandwidth



Date: 5.JUN.2025 09:39:33



Date: 5.JUN.2025 10:09:58

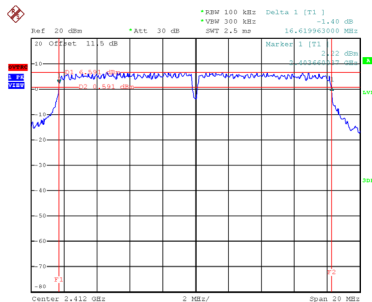


Date: 5.JUN.2025 10:13:23

|           |              |
|-----------|--------------|
| Test Mode | IEEE 802.11g |
|-----------|--------------|

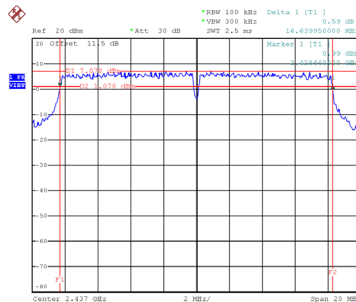
| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (MHz) | Result   |
|---------|-----------------|----------------------|-------------------------------|---------------------------------|----------|
| 01      | 2412            | 16.620               | 17.920                        | 0.5                             | Complies |
| 06      | 2437            | 16.640               | 18.080                        | 0.5                             | Complies |
| 11      | 2462            | 16.620               | 18.000                        | 0.5                             | Complies |

CH01



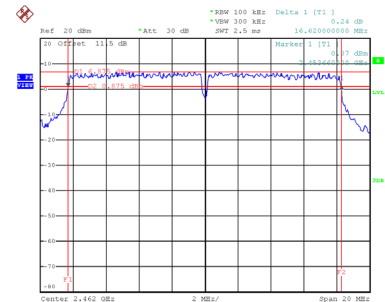
Date: 5.JUN.2025 10:19:26

CH06  
6 dB Bandwidth



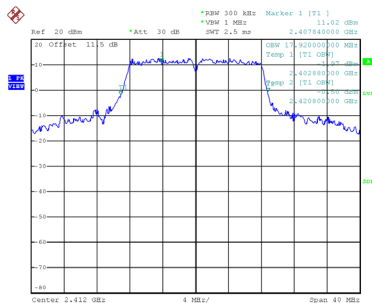
Date: 5.JUN.2025 10:34:47

CH11

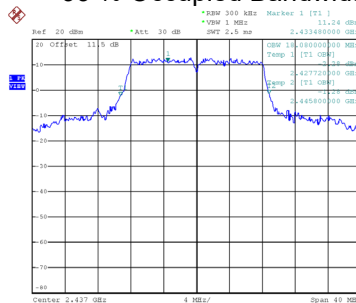


Date: 5.JUN.2025 10:37:53

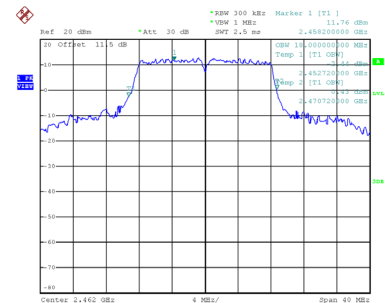
99 % Occupied Bandwidth



Date: 5.JUN.2025 10:19:35



Date: 5.JUN.2025 10:34:56

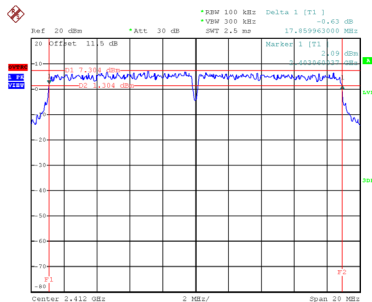


Date: 5.JUN.2025 10:38:02

|           |                     |
|-----------|---------------------|
| Test Mode | IEEE 802.11n (HT20) |
|-----------|---------------------|

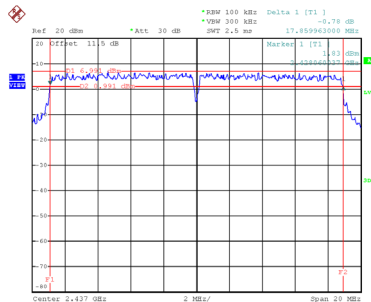
| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | 99 % Occupied Bandwidth (MHz) | 6 dB Bandwidth Min. Limit (MHz) | Result   |
|---------|-----------------|----------------------|-------------------------------|---------------------------------|----------|
| 01      | 2412            | 17.860               | 19.440                        | 0.5                             | Complies |
| 06      | 2437            | 17.860               | 19.120                        | 0.5                             | Complies |
| 11      | 2462            | 17.900               | 19.040                        | 0.5                             | Complies |

CH01



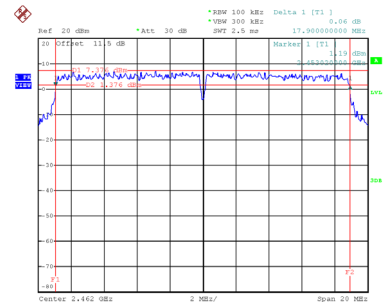
Date: 5.JUN.2025 10:42:53

CH06  
6 dB Bandwidth



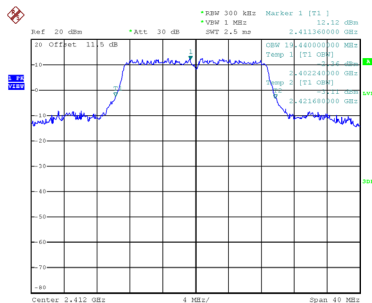
Date: 5.JUN.2025 10:45:58

CH11

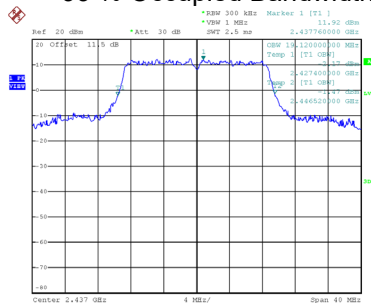


Date: 5.JUN.2025 10:47:55

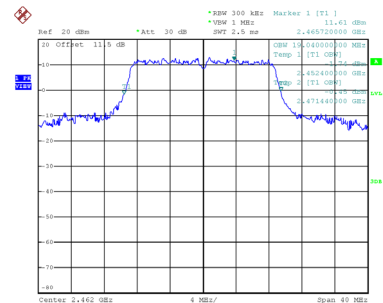
99 % Occupied Bandwidth



Date: 5.JUN.2025 10:43:01



Date: 5.JUN.2025 10:46:07



Date: 5.JUN.2025 10:48:03

## **APPENDIX E    OUTPUT POWER**

|           |              |             |          |
|-----------|--------------|-------------|----------|
| Test Mode | IEEE 802.11b | Tested Date | 2025/6/3 |
|-----------|--------------|-------------|----------|

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result   |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|----------|
| 01      | 2412            | 22.87              | 0.00        | 22.87                            | 30.00            | 1.0000         | Complies |
| 06      | 2437            | 22.93              | 0.00        | 22.93                            | 30.00            | 1.0000         | Complies |
| 11      | 2462            | 22.85              | 0.00        | 22.85                            | 30.00            | 1.0000         | Complies |

|           |              |             |          |
|-----------|--------------|-------------|----------|
| Test Mode | IEEE 802.11g | Tested Date | 2025/6/3 |
|-----------|--------------|-------------|----------|

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result   |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|----------|
| 01      | 2412            | 15.65              | 0.00        | 15.65                            | 30.00            | 1.0000         | Complies |
| 06      | 2437            | 21.91              | 0.00        | 21.91                            | 30.00            | 1.0000         | Complies |
| 11      | 2462            | 18.46              | 0.00        | 18.46                            | 30.00            | 1.0000         | Complies |

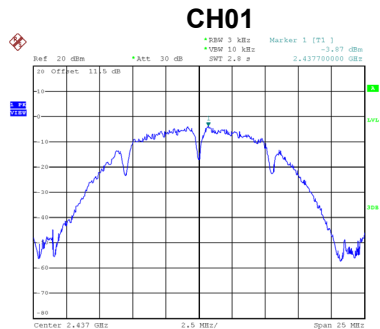
|           |                     |             |          |
|-----------|---------------------|-------------|----------|
| Test Mode | IEEE 802.11n (HT20) | Tested Date | 2025/6/3 |
|-----------|---------------------|-------------|----------|

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result   |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|----------|
| 01      | 2412            | 16.05              | 0.00        | 16.05                            | 30.00            | 1.0000         | Complies |
| 06      | 2437            | 21.72              | 0.00        | 21.72                            | 30.00            | 1.0000         | Complies |
| 11      | 2462            | 18.12              | 0.00        | 18.12                            | 30.00            | 1.0000         | Complies |

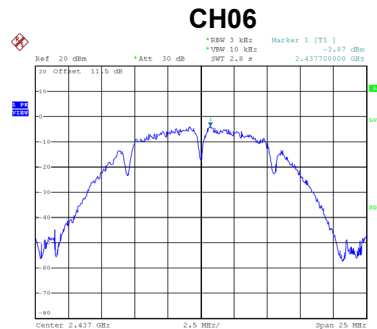
**APPENDIX F    POWER SPECTRAL DENSITY**

|           |              |
|-----------|--------------|
| Test Mode | IEEE 802.11b |
|-----------|--------------|

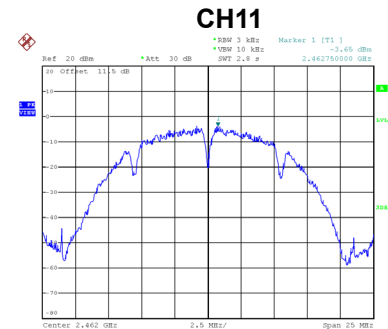
| Channel | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Max. Limit (dBm/3kHz) | Result   |
|---------|-----------------|-----------------------------------|-----------------------|----------|
| 01      | 2412            | -3.87                             | 8.00                  | Complies |
| 06      | 2437            | -3.87                             | 8.00                  | Complies |
| 11      | 2462            | -3.65                             | 8.00                  | Complies |



Date: 5.JUN.2025 10:10:51



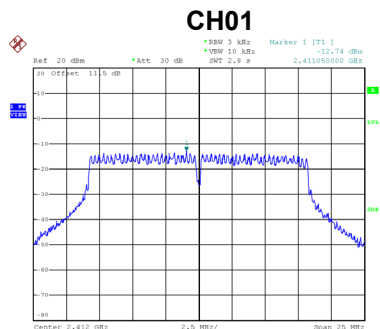
Date: 5.JUN.2025 10:10:51



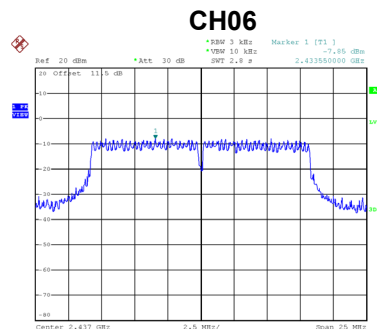
Date: 5.JUN.2025 10:14:16

|           |              |
|-----------|--------------|
| Test Mode | IEEE 802.11g |
|-----------|--------------|

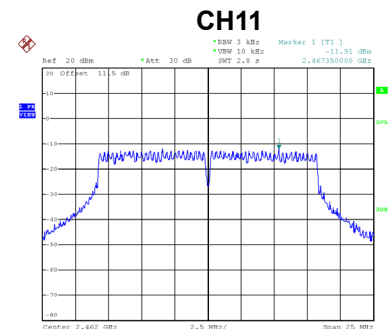
| Channel | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Max. Limit (dBm/3kHz) | Result   |
|---------|-----------------|-----------------------------------|-----------------------|----------|
| 01      | 2412            | -12.74                            | 8.00                  | Complies |
| 06      | 2437            | -7.85                             | 8.00                  | Complies |
| 11      | 2462            | -11.91                            | 8.00                  | Complies |



Date: 25.JUN.2025 15:54:22



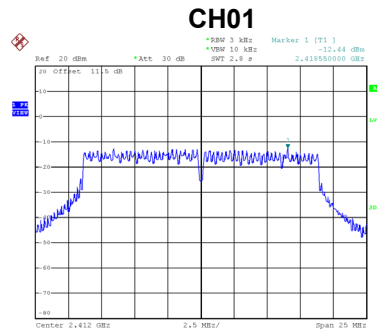
Date: 5.JUN.2025 10:35:49



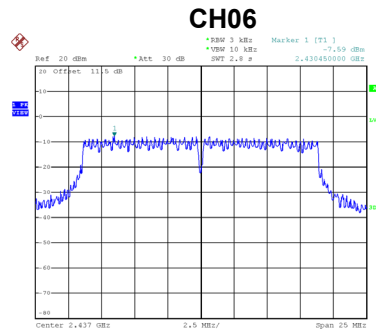
Date: 25.JUN.2025 16:37:59

|           |                     |
|-----------|---------------------|
| Test Mode | IEEE 802.11n (HT20) |
|-----------|---------------------|

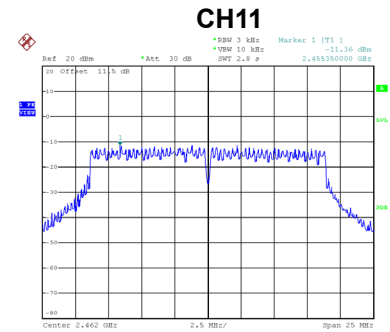
| Channel | Frequency (MHz) | Power Spectral Density (dBm/3kHz) | Max. Limit (dBm/3kHz) | Result   |
|---------|-----------------|-----------------------------------|-----------------------|----------|
| 01      | 2412            | -12.44                            | 8.00                  | Complies |
| 06      | 2437            | -7.59                             | 8.00                  | Complies |
| 11      | 2462            | -11.36                            | 8.00                  | Complies |



Date: 25.JUN.2025 16:30:04



Date: 5.JUN.2025 10:47:00

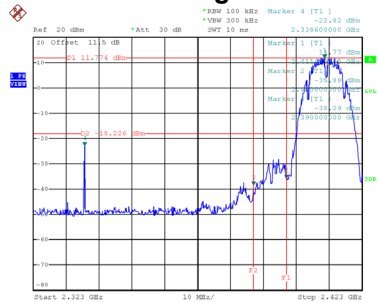


Date: 25.JUN.2025 16:40:42

## **APPENDIX G    ANTENNA CONDUCTED SPURIOUS EMISSIONS**

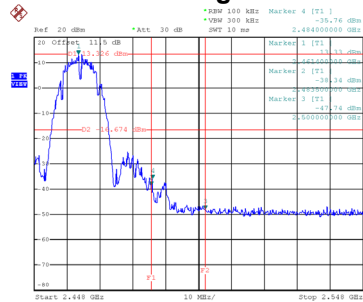
Test Mode IEEE 802.11b

## Bandedge-CH01



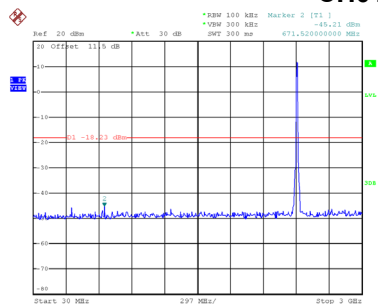
Date: 5.JUN.2025 09:39:42

## Bandedge-CH11

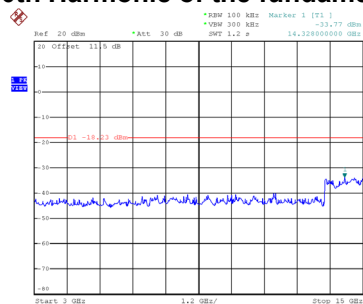


Date: 5.JUN.2025 10:13:32

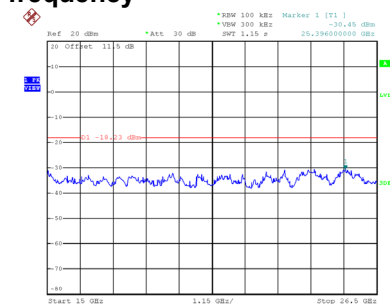
## CH01 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 09:39:57

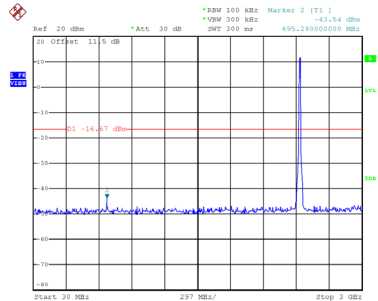


Date: 5.JUN.2025 09:40:06

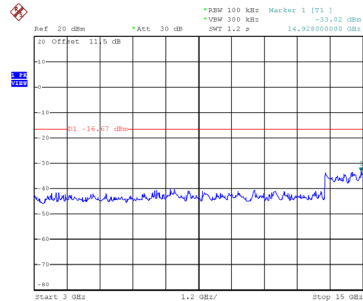


Date: 5.JUN.2025 09:40:15

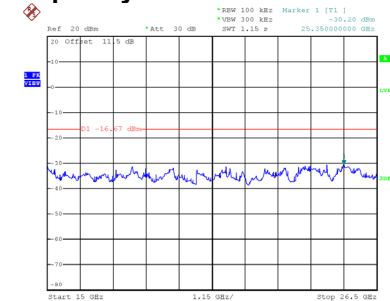
## CH06 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 10:10:22

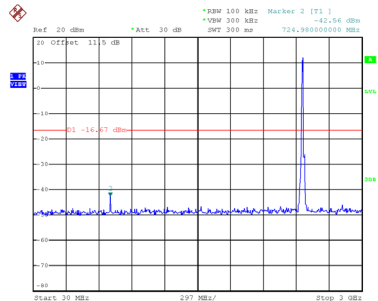


Date: 5.JUN.2025 10:10:31

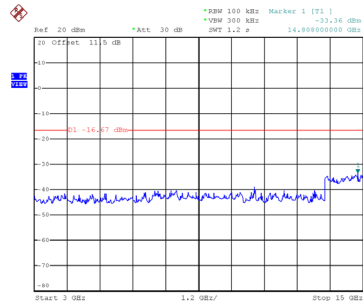


Date: 5.JUN.2025 10:10:40

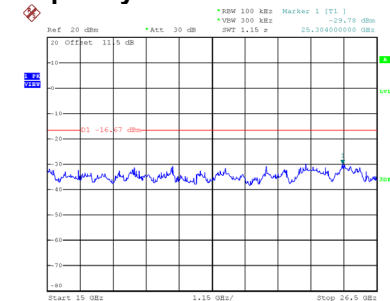
## CH11 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 10:13:47



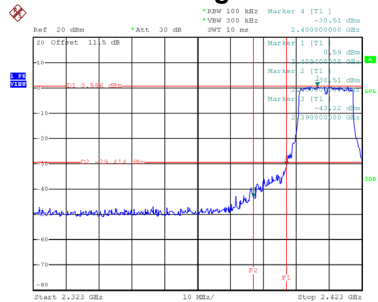
Date: 5.JUN.2025 10:13:56



Date: 5.JUN.2025 10:14:05

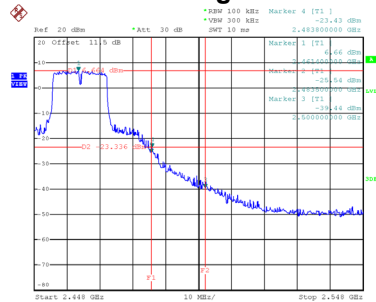
Test Mode IEEE 802.11g

## Bandedge-CH01



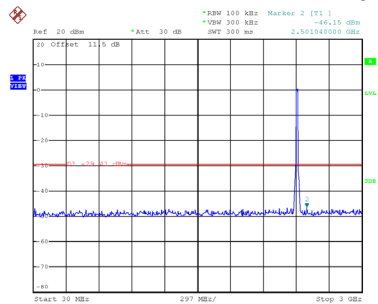
Date: 5.JUN.2025 10:33:20

## Bandedge-CH11

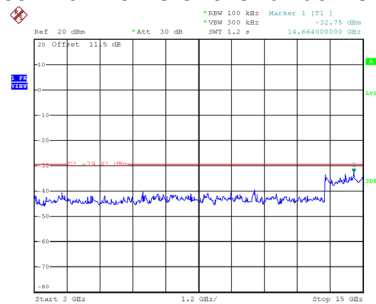


Date: 5.JUN.2025 10:39:50

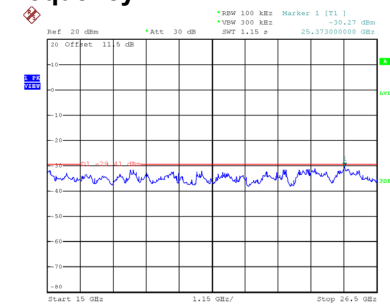
## CH01 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 10:33:35

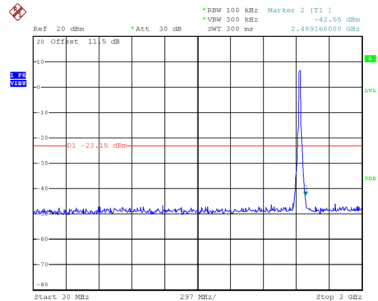


Date: 5.JUN.2025 10:33:44

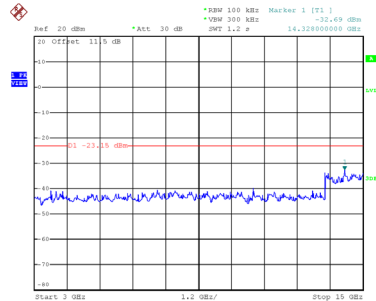


Date: 5.JUN.2025 10:33:53

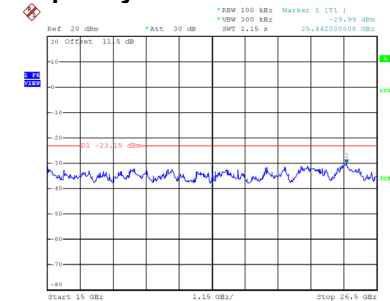
## CH06 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 10:35:20

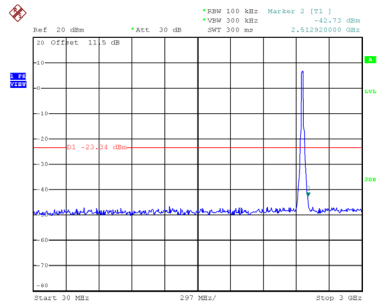


Date: 5.JUN.2025 10:35:29

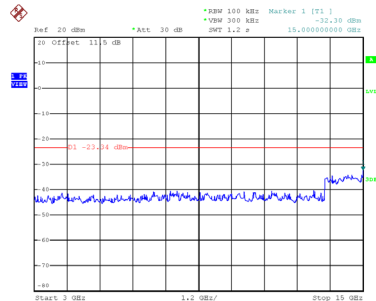


Date: 5.JUN.2025 10:35:39

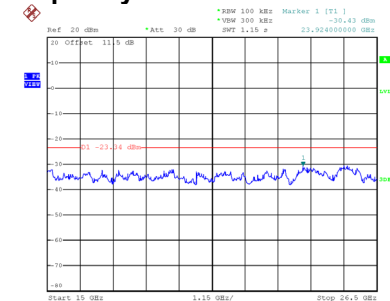
## CH11 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 10:40:05



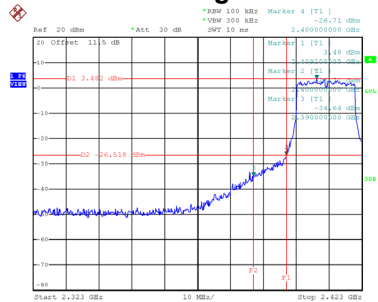
Date: 5.JUN.2025 10:40:14



Date: 5.JUN.2025 10:40:23

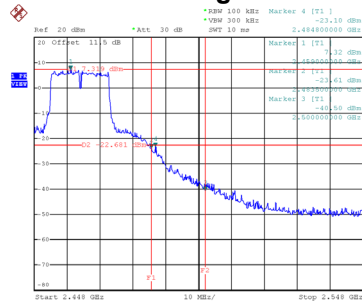
Test Mode IEEE 802.11n (HT20)

## Bandedge-CH01



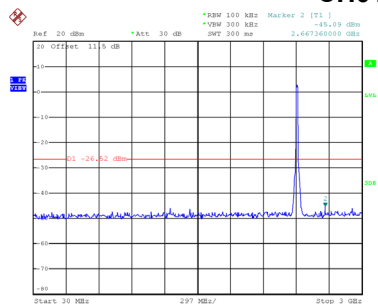
Date: 5.JUN.2025 10:44:36

## Bandedge-CH11

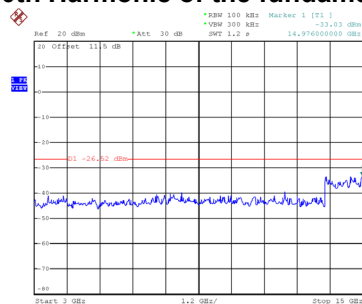


Date: 5.JUN.2025 10:48:12

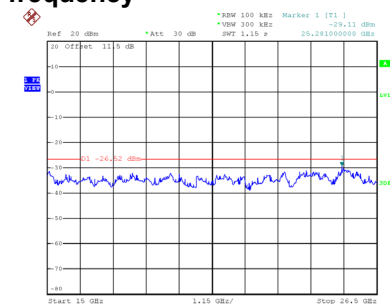
## CH01 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 10:44:51

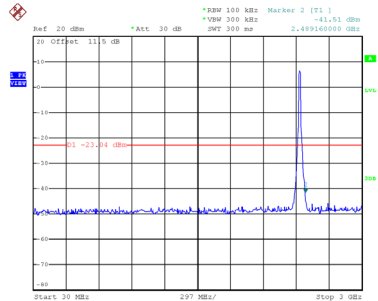


Date: 5.JUN.2025 10:45:00

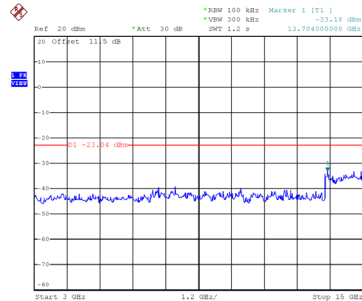


Date: 5.JUN.2025 10:45:10

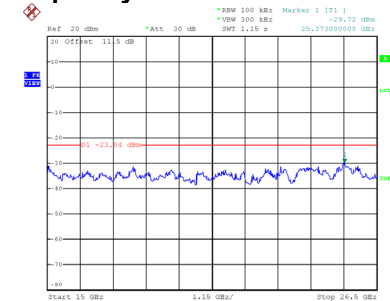
## CH06 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 10:46:31

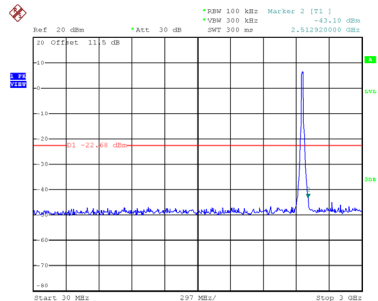


Date: 5.JUN.2025 10:46:40

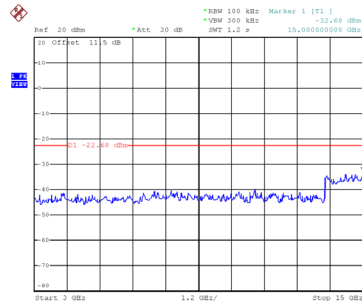


Date: 5.JUN.2025 10:46:49

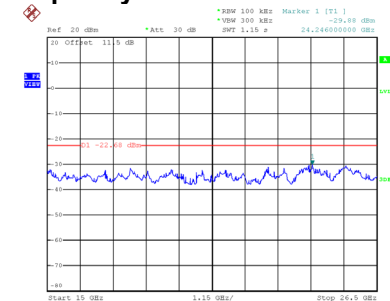
## CH11 – 10th Harmonic of the fundamental frequency



Date: 5.JUN.2025 10:48:27



Date: 5.JUN.2025 10:48:37



Date: 5.JUN.2025 10:48:46

End of Test Report