

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                         |                                                 |                                         |                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------|------------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>CN25ZZ28 001</b>                                                                                                                                                                                                                                                                                     | <b>Auftrags-Nr.:</b><br>Order no.:              | 326093524                               | Seite 1 von 35<br>Page 1 of 35                 |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                                | P01810375                                                                                                                                                                                                                                                                                               | <b>Auftragsdatum:</b><br>Order date:            | 2025-01-23                              |                                                |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                                     | Beijing Roborock Technology Co., Ltd.<br>Room 1001, Floor 10, Building 3, Yard 17, Anju Road, Changping District, Beijing,<br>P.R. China                                                                                                                                                                |                                                 |                                         |                                                |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                                | Robotic Vacuum Cleaner                                                                                                                                                                                                                                                                                  |                                                 |                                         |                                                |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                         | S91COP                                                                                                                                                                                                                                                                                                  |                                                 |                                         |                                                |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                           | Test Report                                                                                                                                                                                                                                                                                             |                                                 |                                         |                                                |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC CFR47 Part 15, Subpart C Section 15.247<br>RSS-Gen Issue 5, Amendment 2, February 2021<br>RSS-247 Issue 3, August 2023<br>ANSI C63.10: 2013                                                                                                                                                         |                                                 |                                         |                                                |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                               | 2025-02-19                                                                                                                                                                                                                                                                                              | Refer to photo document.                        |                                         |                                                |
| <b>Prüfmuster-Nr.:</b><br>Test sample no:                                                                                                                                                                                                                                                                                                                                                                                                                           | A003927758-001, 002                                                                                                                                                                                                                                                                                     |                                                 |                                         |                                                |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                             | Refer to test report                                                                                                                                                                                                                                                                                    |                                                 |                                         |                                                |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                        | TÜV Rheinland (Shanghai)<br>Co., Ltd.                                                                                                                                                                                                                                                                   |                                                 |                                         |                                                |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                                     | TÜV Rheinland (Shanghai)<br>Co., Ltd.                                                                                                                                                                                                                                                                   |                                                 |                                         |                                                |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                              | Pass                                                                                                                                                                                                                                                                                                    |                                                 |                                         |                                                |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> Yanli Fan                                                                                                                                                                                                                                                           |                                                 | <b>genehmigt von:</b><br>authorized by: | <input checked="" type="checkbox"/> Hongfei Wu |
| <b>Datum:</b><br>Date: 2025-04-01                                                                                                                                                                                                                                                                                                                                                                                                                                   | Signed by: Yanli Fan                                                                                                                                                                                                                                                                                    |                                                 | <b>Datum:</b><br>Date: 2025-04-01       | Signed by: Hongfei Wu                          |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sachverständige(r)/Expert                                                                                                                                                                                                                                                                               |                                                 | <b>Stellung / Position:</b>             | Sachverständige(r)/Expert                      |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           | FCC ID: 2AN2O-S91COP01<br>IC: 23317-S91COP01<br>HVIN: S91COP-FNF8<br>This report is for Class II permission change application due to modify to robotic vacuum cleaner's main board and adding alternative motors, So, only the RF power & radiated emission were performed and recorded in the report. |                                                 |                                         |                                                |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                                     | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged                                                                                                                                                                                                                             |                                                 |                                         |                                                |
| * Legende:                                                                                                                                                                                                                                                                                                                                                                                                                                                          | P(ass) = entspricht o.g. Prüfgrundlage(n)                                                                                                                                                                                                                                                               | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | N/A = nicht anwendbar                   | N/T = nicht getestet                           |
| * Legend:                                                                                                                                                                                                                                                                                                                                                                                                                                                           | P(ass) = passed a.m. test specification(s)                                                                                                                                                                                                                                                              | F(ail) = failed a.m. test specification(s)      | N/A = not applicable                    | N/T = not tested                               |
| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br/> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p> |                                                                                                                                                                                                                                                                                                         |                                                 |                                         |                                                |

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## Anmerkungen Remarks

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|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2 | <p>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: <a href="https://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></p> <p><i>As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: <a href="https://go.tuv.com/digital-signature">go.tuv.com/digital-signature</a></i></p> |
| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>                                                                                                                                                                                                                                                                                        |

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## TEST SUMMARY

### **5.1.1 ANTENNA REQUIREMENT**

RESULT: Pass

### **5.1.2 PEAK OUTPUT POWER**

RESULT: Pass

### **5.2.1 RADIATED BAND-EDGE**

RESULT: Pass

### **5.2.2 RADIATED SPURIOUS EMISSION**

RESULT: Pass

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## **1. General Remarks**

### **1.1 Complementary Materials**

Null.

## **2. Test Sites**

### **2.1 Test Facilities**

TÜV Rheinland (Shanghai) Co., Ltd.

Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang) Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 930979.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 33038.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| <b>Equip.</b> | <b>Description</b>         | <b>Model</b>         | <b>Manufacturer</b> | <b>Due Date</b> |
|---------------|----------------------------|----------------------|---------------------|-----------------|
| EMC-S-036     | RF measurement software    | WMS32-WB (11.40.00)  | Rohde & Schwarz     | N/A             |
| EMC-C-317     | Thermohygrometer           | 608-H1               | testo               | 2025-06-28      |
| EMC-C-304     | OSP                        | OSP-B157W8           | Rohde & Schwarz     | 2025-12-10      |
| EMC-S-032     | EMI measurement software   | EMC32-MEB (10.60.20) | Rohde & Schwarz     | N/A             |
| EMC-C-175     | Preamplifier               | EMC051845SE          | EMCI Taiwan         | 2025-07-24      |
| EMC-C-176     | Preamplifier               | EMC051845SE          | EMCI Taiwan         | 2025-07-24      |
| EMC-C-161     | Spectrum analyser          | FSV40                | Rohde & Schwarz     | 2025-07-15      |
| EMC-C-155     | BiLog antenna              | CBL 6112D            | Teseq               | 2026-04-20      |
| EMC-C-121     | Thermohygrometer           | 608-H1               | testo               | 2025-06-25      |
| EMC-C-068     | Broadband horn antenna     | BBHA 9170            | Schwarzbeck         | 2028-06-18      |
| EMC-C-066     | EMI test receiver          | ESCI                 | Rohde & Schwarz     | 2025-10-17      |
| EMC-C-018     | Double ridged horn antenna | BBHA 9120 D          | Schwarzbeck         | 2026-03-24      |
| EMC-C-001     | 3 m semi-anechoic chamber  | SAC3                 | Frankonia           | 2026-12-03      |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty**

| Measurement Type                | Frequency      | Uncertainty |
|---------------------------------|----------------|-------------|
| Antenna Port Conducted Emission | < 1GHz         | ±0.39dB     |
|                                 | > 1GHz         | ±0.68dB     |
| Conducted Emission              | 150kHz - 30MHz | ±3.39dB     |
| Radiated Emission               | 9kHz - 30MHz   | ±2.93dB     |
|                                 | 30MHz - 1GHz   | ±5.34dB     |
|                                 | > 1GHz         | ±5.40dB     |

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a Robotic Vacuum Cleaner which supports 2.4GHz Wi-Fi.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

| General Description of EUT                                    |                                                                                              |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Product Name:                                                 | Robotic Vacuum Cleaner                                                                       |
| Model No.:                                                    | S91COP                                                                                       |
| Rated Voltage:                                                | DC 20V@2.5A input via Docking Station<br>DC 14.4V@6400mAh(TYP) input via Lithium-ion battery |
| Test Voltage:                                                 | DC 14.4V                                                                                     |
| Technical Specification of W-LAN (Wireless module: F89FTSM13) |                                                                                              |
| Frequency Range:                                              | 2412 to 2472MHz for 802.11b/g/n-HT20<br>2422 to 2462MHz for 802.11n-HT40                     |
| Modulation Type:                                              | DSSS (CCK, DQPSK, DBPSK)<br>OFDM (QPSK/BPSK/16QAM/64QAM)                                     |
| Antenna Type:                                                 | PCB Antenna                                                                                  |
| Antenna Gain:                                                 | 2.22dBi (provided by client)                                                                 |

**Table 4: RF Channel List**

Wi-Fi 802.11 b/g/n-HT20/n-HT40

| RF Channel | Frequency [MHz] | RF Channel | Frequency [MHz] | RF Channel | Frequency [MHz] |
|------------|-----------------|------------|-----------------|------------|-----------------|
| 1          | 2412            | 5          | 2432            | 9          | 2452            |
| 2          | 2417            | 6          | 2437            | 10         | 2457            |
| 3          | 2422            | 7          | 2442            | 11         | 2462            |
| 4          | 2427            | 8          | 2447            | -          | -               |

**3.3 Independent Operation Modes**

Test frequencies are lowest channel: 2412 MHz/2422 MHz, middle channel: 2437 MHz, highest channel: 2462 MHz/2452 MHz.

A. On, Wi-Fi mode

**3.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

Software: adb.exe

**Table 5: Power parameter value**

| Operating Mode | Channel Frequency [MHz] | Power Parameter Value | Operating Mode | Channel Frequency [MHz] | Power Parameter Value |
|----------------|-------------------------|-----------------------|----------------|-------------------------|-----------------------|
| 802.11b        | 2412                    | 30                    | 802.11n-HT20   | 2412                    | 38                    |
|                | 2437                    | 32                    |                | 2437                    | 43                    |
|                | 2462                    | 35                    |                | 2462                    | 42                    |
| 802.11g        | 2412                    | 40                    | 802.11n-HT40   | 2422                    | 35                    |
|                | 2437                    | 43                    |                | 2437                    | 42                    |
|                | 2462                    | 45                    |                | 2452                    | 36                    |

### 4.3 Special Accessories and Auxiliary Equipment

**Table 6: Auxiliary Equipment**

| Product Name | Model Name | Manufactory |
|--------------|------------|-------------|
| Laptop       | TP00135A   | Lenovo      |

### 4.4 Countermeasures to achieve EMC Compliance

Null.

## 5. Test Results

### 5.1 Conducted Testing at Antenna Port

#### 5.1.1 Antenna Requirement

**RESULT:****Pass**

According to the manufacturer declared, the EUT has one PCB antenna, the directional gain of antenna is 2.22 dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

**Table 7: Antenna Requirement**

| FCC 15.203 – Antenna Requirement 1 |                                                                                             |             |
|------------------------------------|---------------------------------------------------------------------------------------------|-------------|
| Requirement:                       | No antenna other than that furnished by the responsible party shall be used with the device |             |
| Results:                           | Antenna type:                                                                               | PCB antenna |
| Verdict:                           | Pass                                                                                        |             |

| FCC 15.204 – Antenna Requirement 2 |                                                                                                                                                                                                                              |  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Requirement:                       | An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator. |  |
| Results:                           | Only one PCB antenna can be used                                                                                                                                                                                             |  |
| Verdict:                           | Pass                                                                                                                                                                                                                         |  |

| RSS-Gen 6.4 – External Control |                                                                                                                                                                                                                                |  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Requirement:                   | The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the regulatory requirements, including RSS-Gen and the applicable RSSs |  |
| Results:                       | The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.                                                               |  |
| Verdict:                       | PASS                                                                                                                                                                                                                           |  |

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**RSS-Gen 6.8 – Antenna Requirement**

**Requirement:** When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

**Results:**

|                                                  |             |
|--------------------------------------------------|-------------|
| a) Antenna Type:                                 | PCB Antenna |
| b) Manufacture:                                  | N/A         |
| c) Model No.:                                    | N/A         |
| d) Gain with reference to an isotropic radiator: | 2.22 dBi    |

**Verdict:** PASS

## 5.1.2 Peak Output Power

**RESULT:****Pass**

|                      |   |                                                                      |
|----------------------|---|----------------------------------------------------------------------|
| Date of testing      | : | 2025-02-27                                                           |
| Ambient temperature  | : | 20.3°C                                                               |
| Relative humidity    | : | 57.4%                                                                |
| Atmospheric pressure | : | 101kPa                                                               |
| Test requirement     | : | FCC Part 15.247(b)(3)<br>RSS-247 Issue 3, August 2023, Clause 5.4(d) |
| Test procedure       | : | ANSI C63.10: 2013                                                    |
| Test voltage         | : | DC 14.4V                                                             |
| Test modes applied   | : | A                                                                    |

**Table 8: Original Peak Output Power**

| Test Mode  | Data rate/<br>MCS | CH. | Freq.<br>[MHz] | Peak<br>Conducted<br>Output<br>Power<br>[dBm] | Peak<br>Conducted<br>Output Power<br>Limit<br>[dBm] | Maximum<br>EIRP<br>[dBm] | EIRP<br>Limit<br>[dBm] |
|------------|-------------------|-----|----------------|-----------------------------------------------|-----------------------------------------------------|--------------------------|------------------------|
| b          | 1Mbps             | 1   | 2412           | 19.75                                         | 30                                                  | 21.97                    | 36                     |
|            | 1Mbps             | 6   | 2437           | 19.68                                         | 30                                                  | 21.9                     | 36                     |
|            | 1Mbps             | 11  | 2462           | 19.64                                         | 30                                                  | 21.86                    | 36                     |
| g          | 6Mbps             | 1   | 2412           | 23.91                                         | 30                                                  | 26.13                    | 36                     |
|            | 6Mbps             | 6   | 2437           | 23.82                                         | 30                                                  | 26.04                    | 36                     |
|            | 6Mbps             | 11  | 2462           | 23.97                                         | 30                                                  | 26.19                    | 36                     |
| n-<br>HT20 | MCS0              | 1   | 2412           | 23.89                                         | 30                                                  | 26.11                    | 36                     |
|            | MCS0              | 6   | 2437           | 23.85                                         | 30                                                  | 26.07                    | 36                     |
|            | MCS0              | 11  | 2462           | 23.92                                         | 30                                                  | 26.14                    | 36                     |
| n-<br>HT40 | MCS0              | 3   | 2422           | 24.01                                         | 30                                                  | 26.23                    | 36                     |
|            | MCS0              | 6   | 2437           | 23.96                                         | 30                                                  | 26.18                    | 36                     |
|            | MCS0              | 9   | 2452           | 24.13                                         | 30                                                  | 26.35                    | 36                     |

Note:

Peak Output Power: Refer to CN24HTPO 001 issued by TUV Rheinland Taiwan Ltd.

**Table 9: Peak Output Power**

| Test Mode  | Data rate/<br>MCS | CH. | Freq.<br>[MHz] | Peak<br>Conducted<br>Output<br>Power<br>[dBm] | Peak<br>Conducted<br>Output Power<br>Limit<br>[dBm] | Maximum<br>EIRP<br>[dBm] | EIRP<br>Limit<br>[dBm] |
|------------|-------------------|-----|----------------|-----------------------------------------------|-----------------------------------------------------|--------------------------|------------------------|
| b          | 1Mbps             | 1   | 2412           | 19.01                                         | 30                                                  | 21.23                    | 36                     |
|            | 1Mbps             | 6   | 2437           | 19.03                                         | 30                                                  | 21.25                    | 36                     |
|            | 1Mbps             | 11  | 2462           | 18.85                                         | 30                                                  | 21.07                    | 36                     |
| g          | 6Mbps             | 1   | 2412           | 22.43                                         | 30                                                  | 24.65                    | 36                     |
|            | 6Mbps             | 6   | 2437           | 22.35                                         | 30                                                  | 24.57                    | 36                     |
|            | 6Mbps             | 11  | 2462           | 22.20                                         | 30                                                  | 24.42                    | 36                     |
| n-<br>HT20 | MCS0              | 1   | 2412           | 21.74                                         | 30                                                  | 23.96                    | 36                     |
|            | MCS0              | 6   | 2437           | 23.10                                         | 30                                                  | 25.32                    | 36                     |
|            | MCS0              | 11  | 2462           | 20.87                                         | 30                                                  | 23.09                    | 36                     |
| n-<br>HT40 | MCS0              | 3   | 2422           | 19.94                                         | 30                                                  | 22.16                    | 36                     |
|            | MCS0              | 6   | 2437           | 22.62                                         | 30                                                  | 24.84                    | 36                     |
|            | MCS0              | 9   | 2452           | 18.78                                         | 30                                                  | 21.00                    | 36                     |

Note:

1. The cable loss=0.5dB was provided by the client, and was factored in the result Conducted Output Power
2. EIRP=Conducted Output Power + Antenna Gain (2.22 dBi)

## 5.2 Emission in the Frequency Range above 30MHz

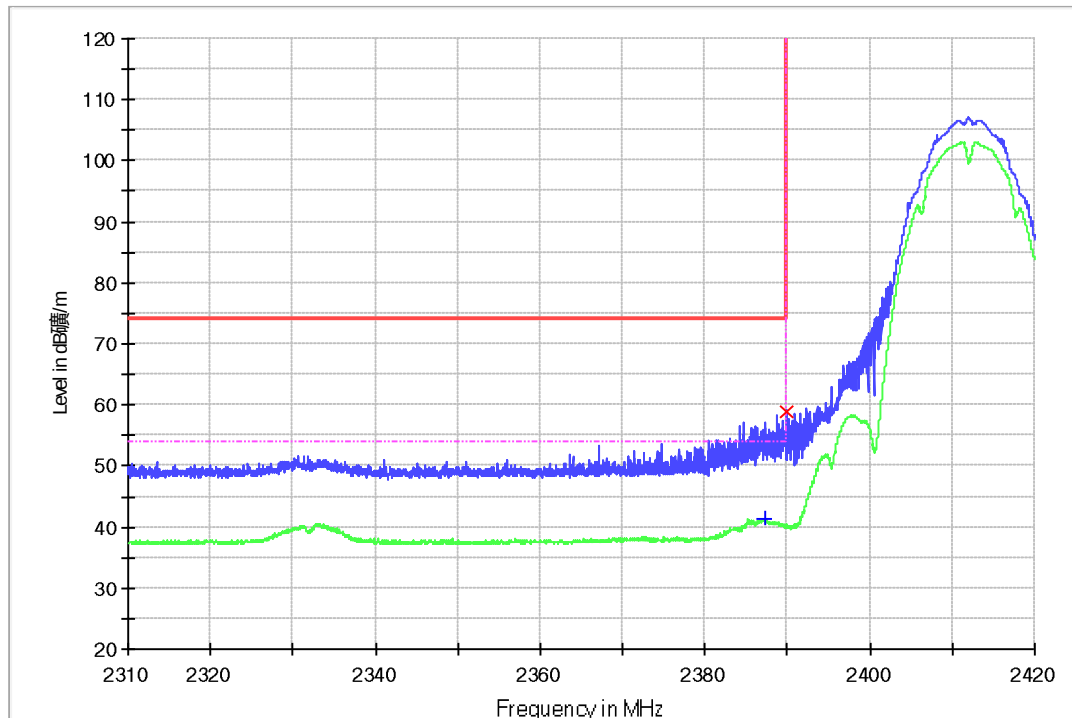
### 5.2.1 Radiated Band-Edge

**RESULT:****Pass**

|                      |   |                                                                                                                                                                                                                                   |
|----------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of testing      | : | 2025-03-11                                                                                                                                                                                                                        |
| Ambient temperature  | : | 21.9°C                                                                                                                                                                                                                            |
| Relative humidity    | : | 56.2%                                                                                                                                                                                                                             |
| Atmospheric pressure | : | 101kPa                                                                                                                                                                                                                            |
| Test requirement     | : | FCC Part 15.247(d)<br>FCC Part 15.205(a)<br>FCC Part 15.209(a)<br>RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9<br>RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10<br>RSS-247 Issue 3, August 2023, Clause 5.5 |
| Test procedure       | : | ANSI C63.10: 2013                                                                                                                                                                                                                 |
| Test voltage         | : | DC 14.4V                                                                                                                                                                                                                          |
| Test modes applied   | : | A                                                                                                                                                                                                                                 |

**Figure 1: Radiated Band-Edge, b-2412MHz, H**

2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre


**PK**

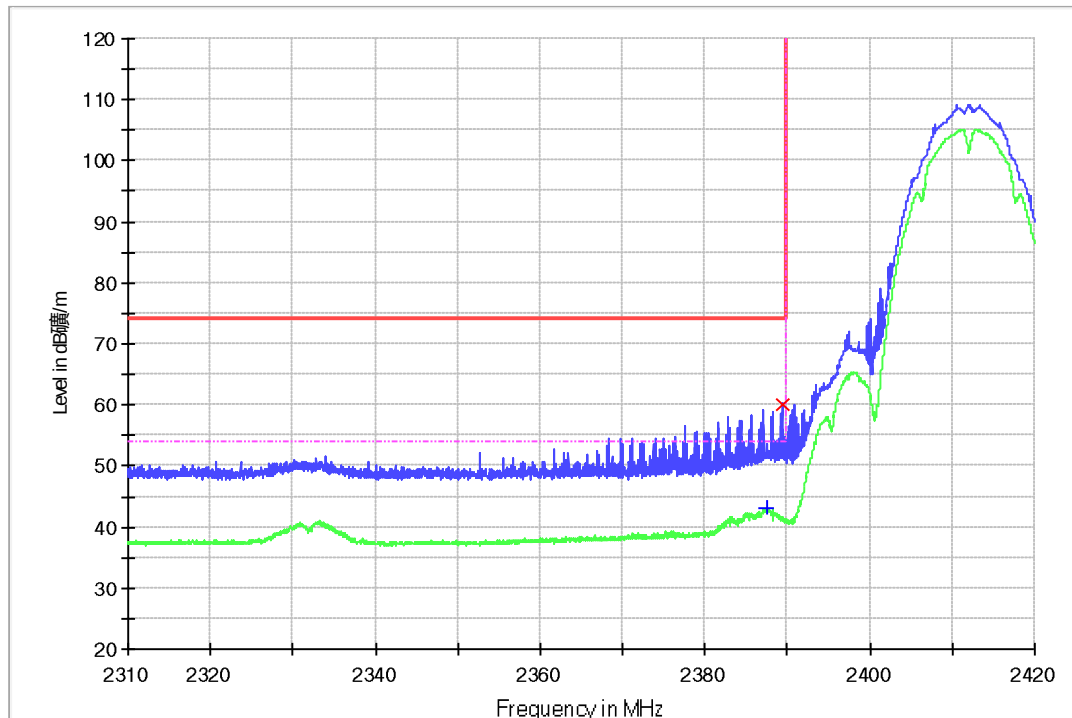
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.970000     | 59.0             | H   | -6.0         | 15.0              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2387.385000     | 41.2             | H   | -6.1         | 12.8              | 54.0                 |

**Figure 2: Radiated Band-Edge, b-2412MHz, V**

2310 2410 BE 1-18GHz\_HL050\_FSV40\_Pre


**PK**

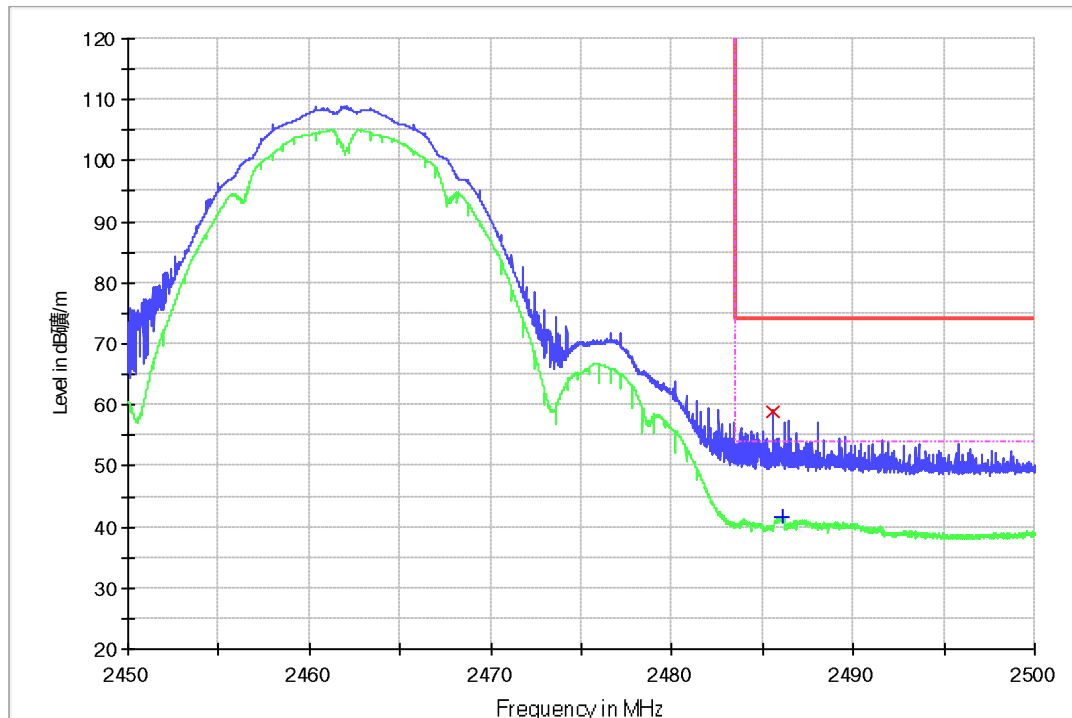
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.310000     | 60.2             | v   | -6.0         | 13.8              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2387.440000     | 43.0             | v   | -6.1         | 11.0              | 54.0                 |

**Figure 3: Radiated Band-Edge, b-2462MHz, H**

2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre


**PK**

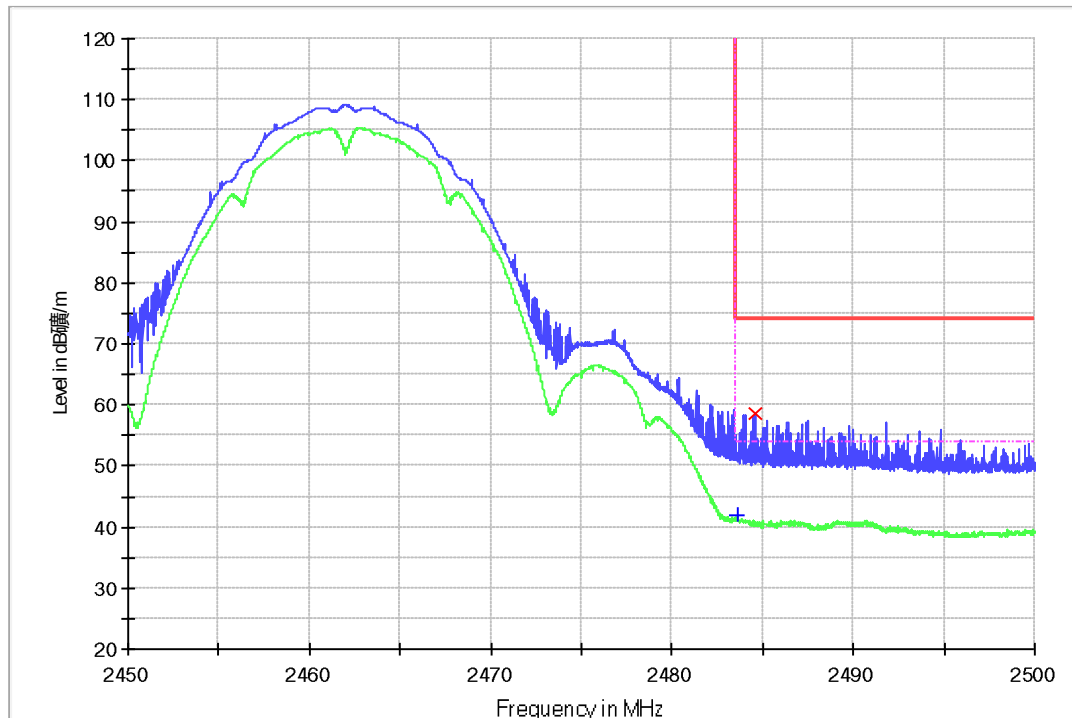
| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2485.600000     | 59.0             | H   | -6.2         | 15.0              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2486.075000     | 41.5             | H   | -6.2         | 12.5              | 54.0                 |

**Figure 4: Radiated Band-Edge, b-2462MHz, V**

2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre


**PK**

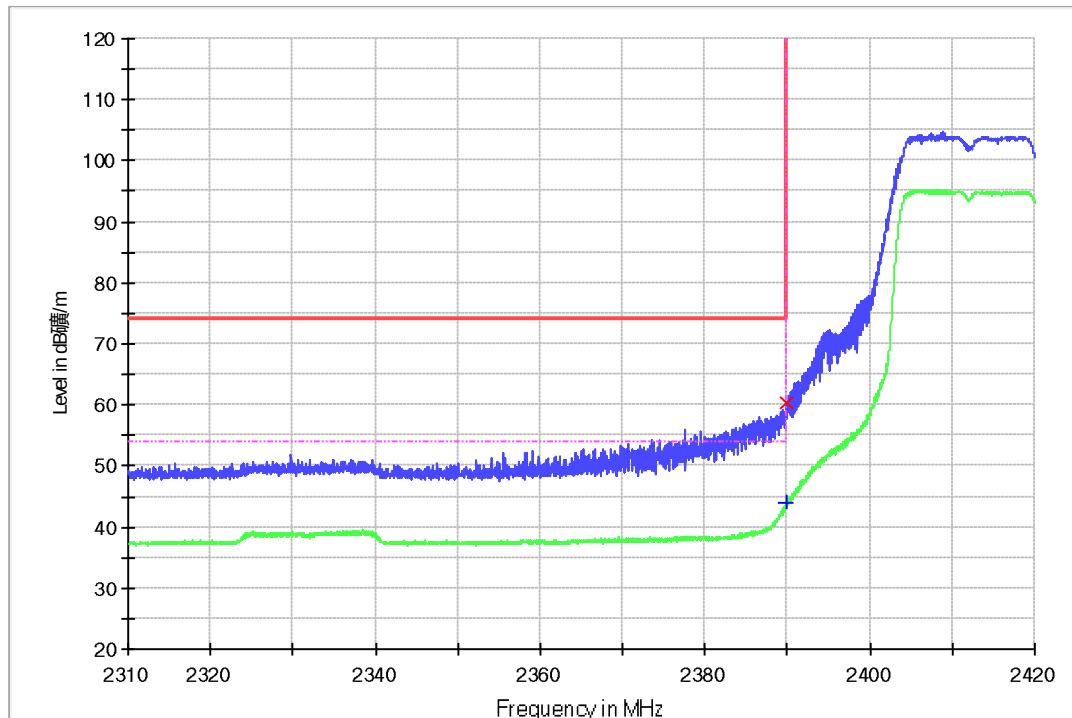
| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2484.550000     | 58.6             | v   | -6.2         | 15.4              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.612500     | 41.8             | v   | -6.2         | 12.2              | 54.0                 |

**Figure 5: Radiated Band-Edge, g-2412MHz, H**

2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre


**PK**

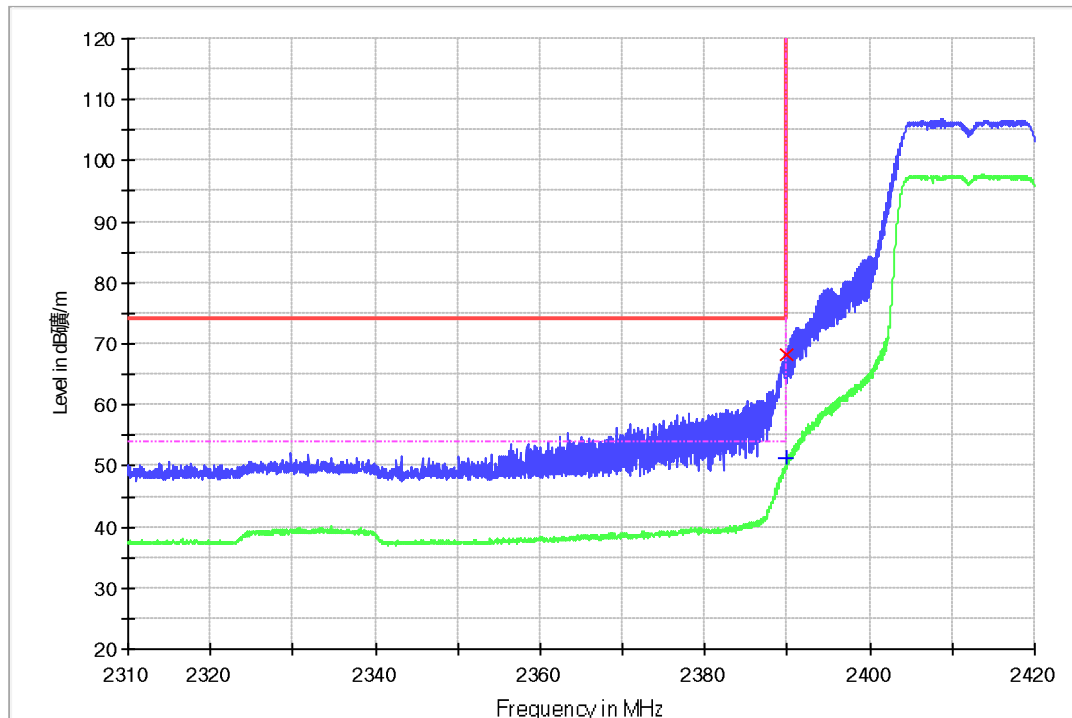
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.970000     | 60.4             | H   | -6.0         | 13.6              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.970000     | 43.9             | H   | -6.0         | 10.1              | 54.0                 |

**Figure 6: Radiated Band-Edge, g-2412MHz, V**

2310 2410 BE 1-18GHz\_HL050\_FSV40\_Pre


**PK**

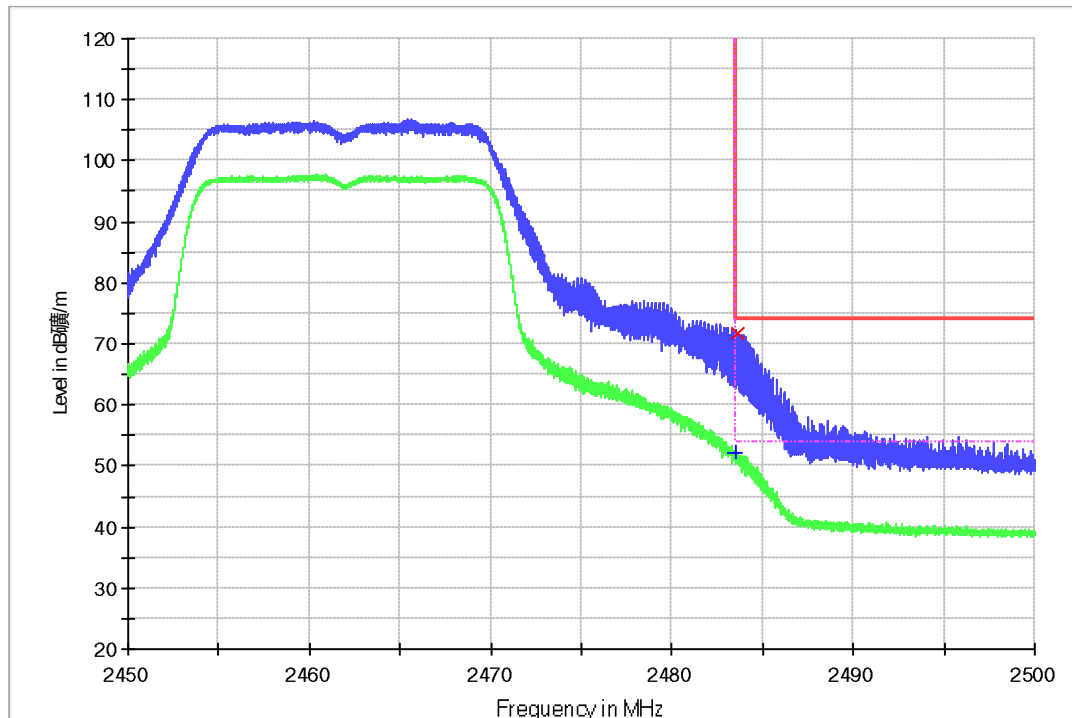
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.970000     | 68.1             | v   | -6.0         | 5.9               | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.970000     | 51.4             | v   | -6.0         | 2.6               | 54.0                 |

**Figure 7: Radiated Band-Edge, g-2462MHz, H**

2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre


**PK**

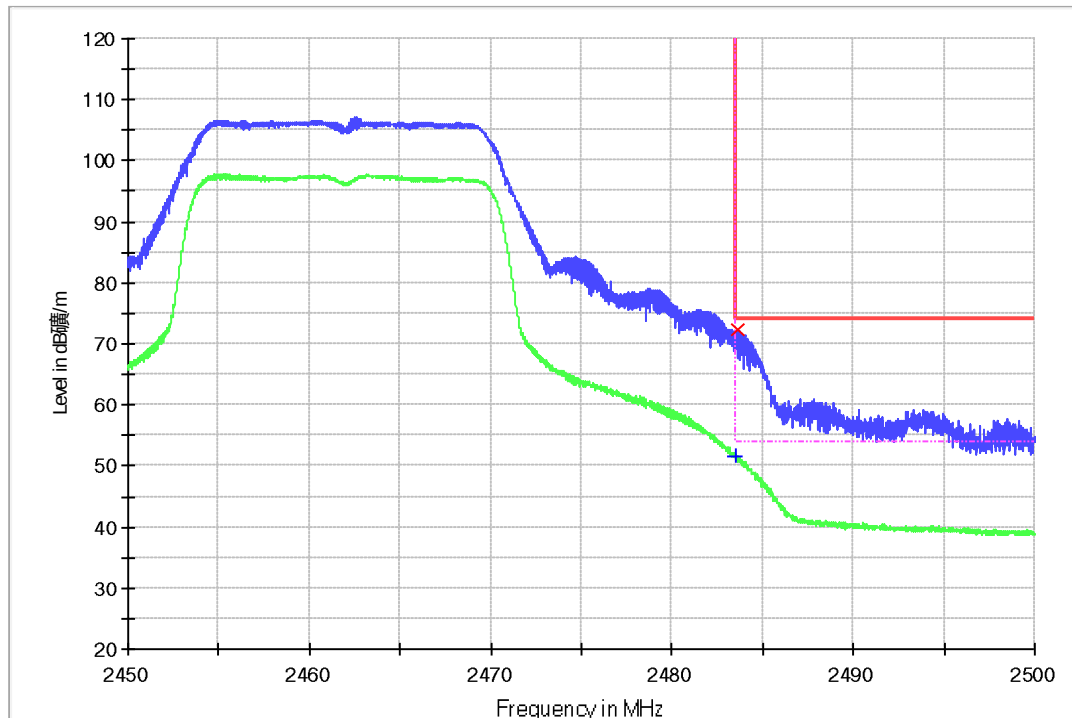
| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.668750     | 71.7             | H   | -6.2         | 2.3               | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.543750     | 52.2             | H   | -6.2         | 1.8               | 54.0                 |

**Figure 8: Radiated Band-Edge, g-2462MHz, V**

2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre


**PK**

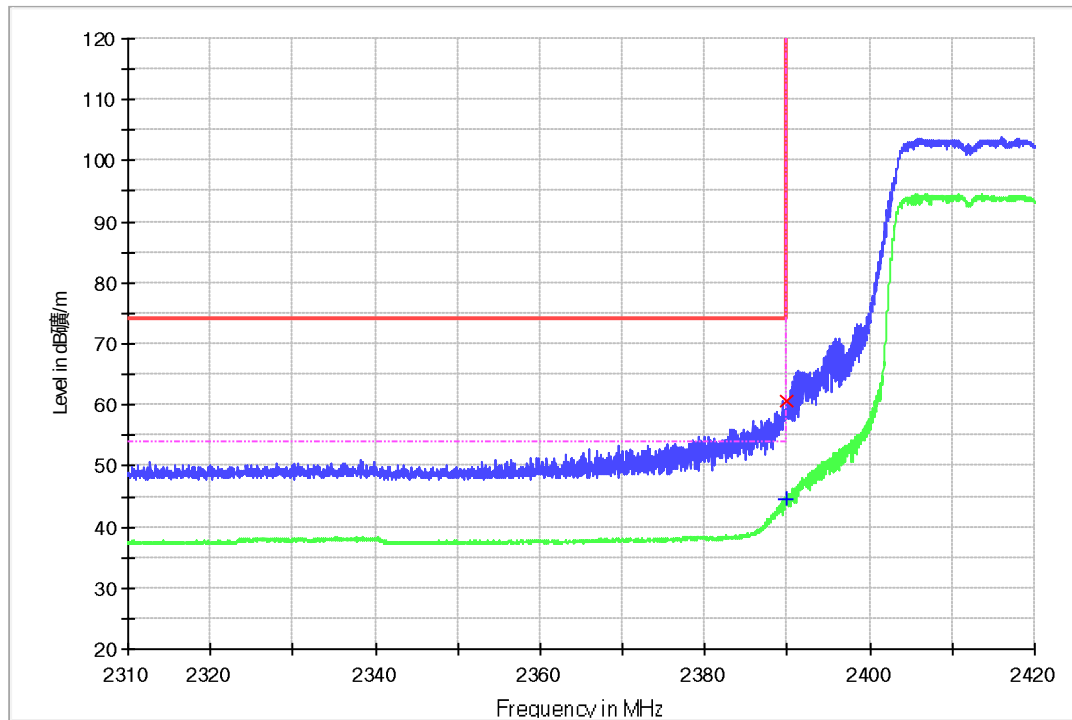
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.575000     | 72.2             | v   | -6.2         | 1.8               | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.525000     | 51.7             | v   | -6.2         | 2.3               | 54.0                 |

**Figure 9: Radiated Band-Edge, n-HT20-2412MHz, H**

2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre


**PK**

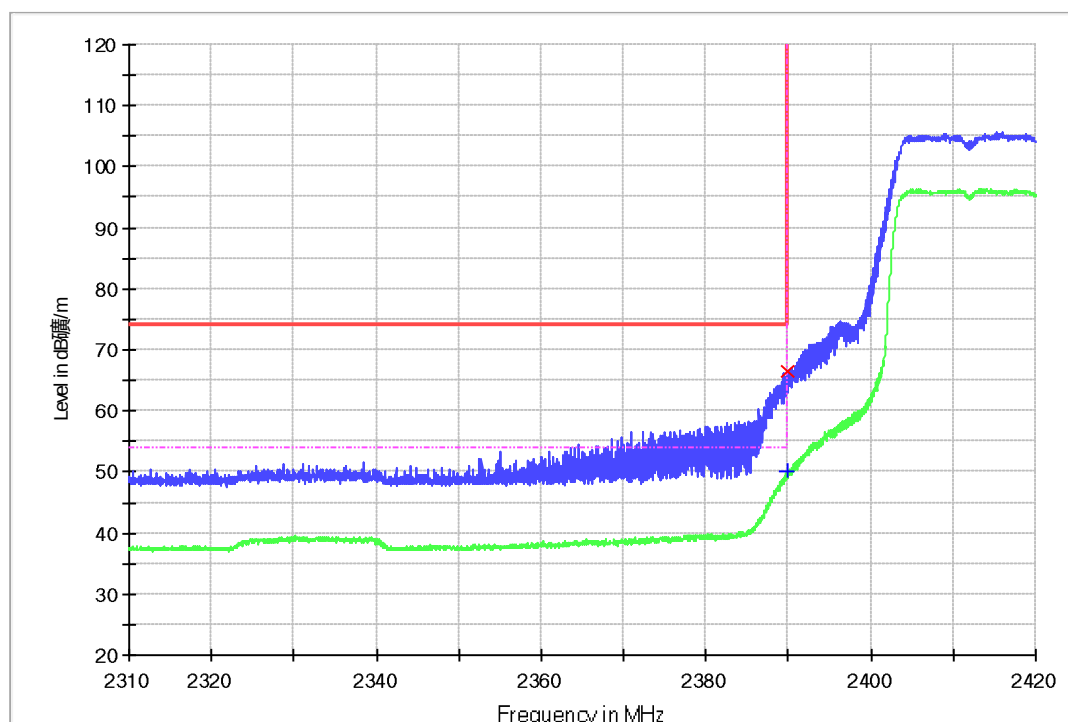
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.887500     | 60.7             | H   | -6.0         | 13.3              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.887500     | 44.7             | H   | -6.0         | 9.3               | 54.0                 |

**Figure 10: Radiated Band-Edge, n-HT20-2412MHz, V**

2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre


**PK**

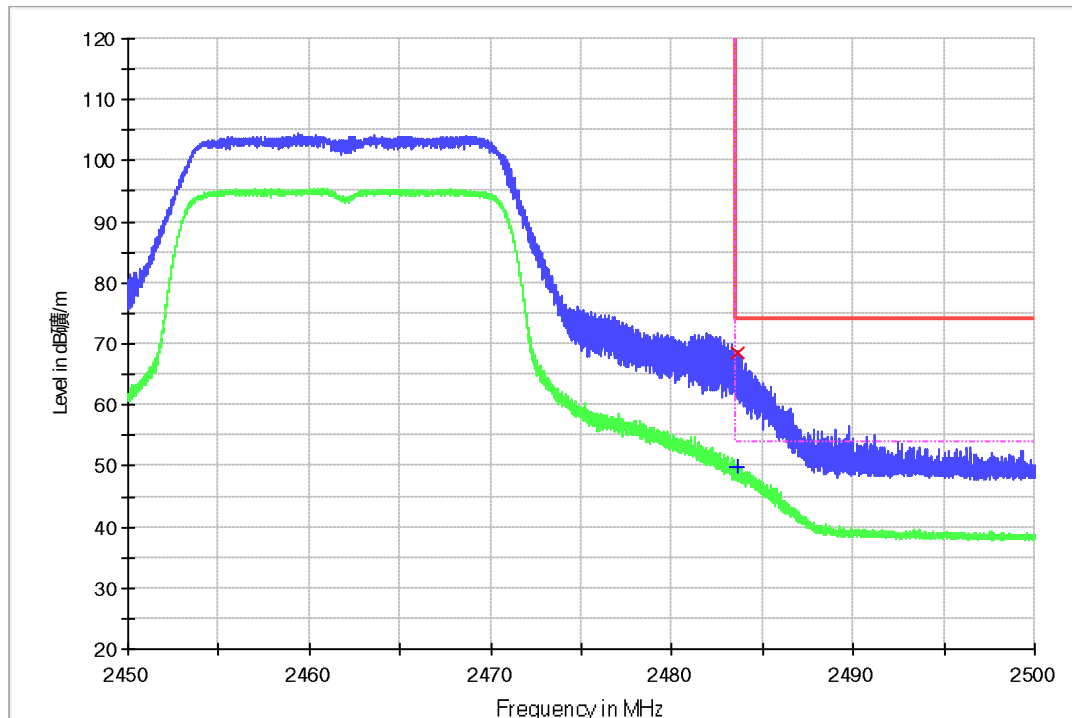
| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.942500     | 66.4             | v   | -6.0         | 7.6               | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.942500     | 50.0             | v   | -6.0         | 4.0               | 54.0                 |

**Figure 11: Radiated Band-Edge, n-HT20-2462MHz, H**

2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre


**PK**

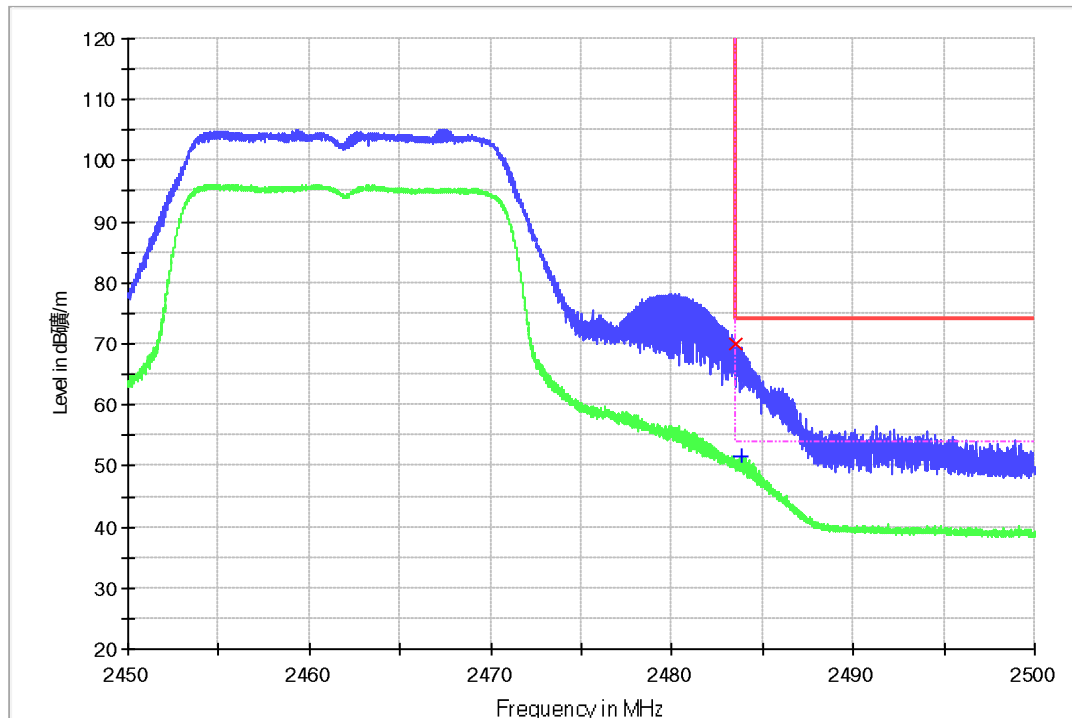
| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.637500     | 68.6             | H   | -6.2         | 5.4               | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.637500     | 49.8             | H   | -6.2         | 4.2               | 54.0                 |

**Figure 12: Radiated Band-Edge, n-HT20-2462MHz, V**

2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre


**PK**

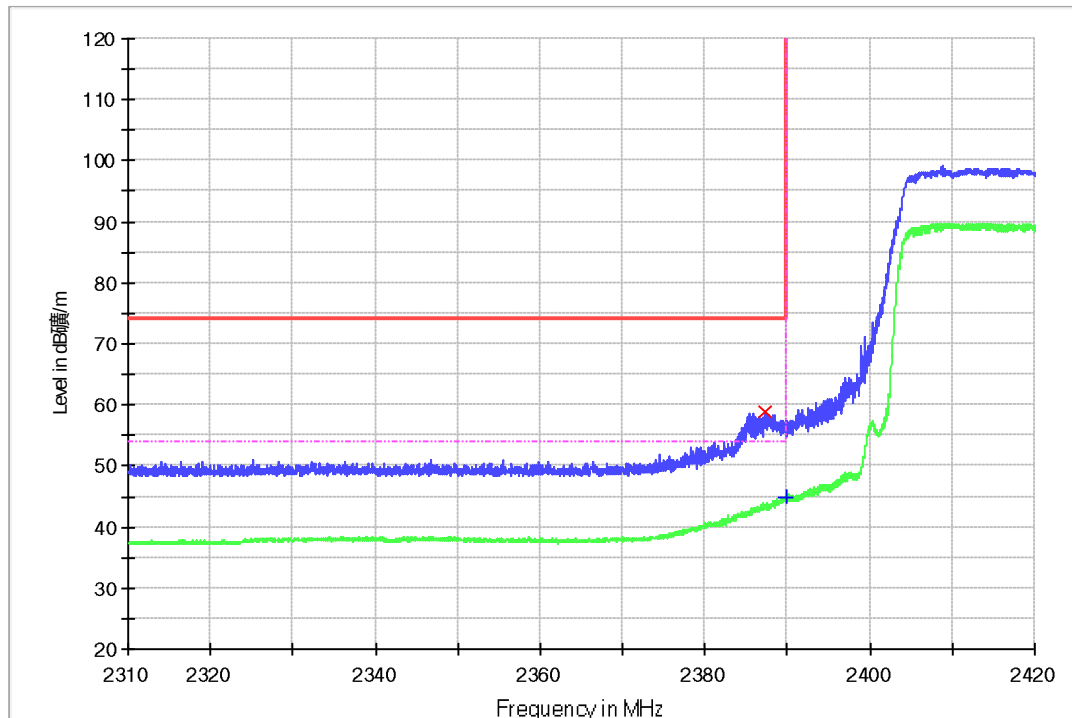
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.512500     | 70.1             | v   | -6.2         | 3.9               | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.856250     | 51.7             | v   | -6.2         | 2.3               | 54.0                 |

**Figure 13: Radiated Band-Edge, n-HT40-2422MHz, H**

2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre


**PK**

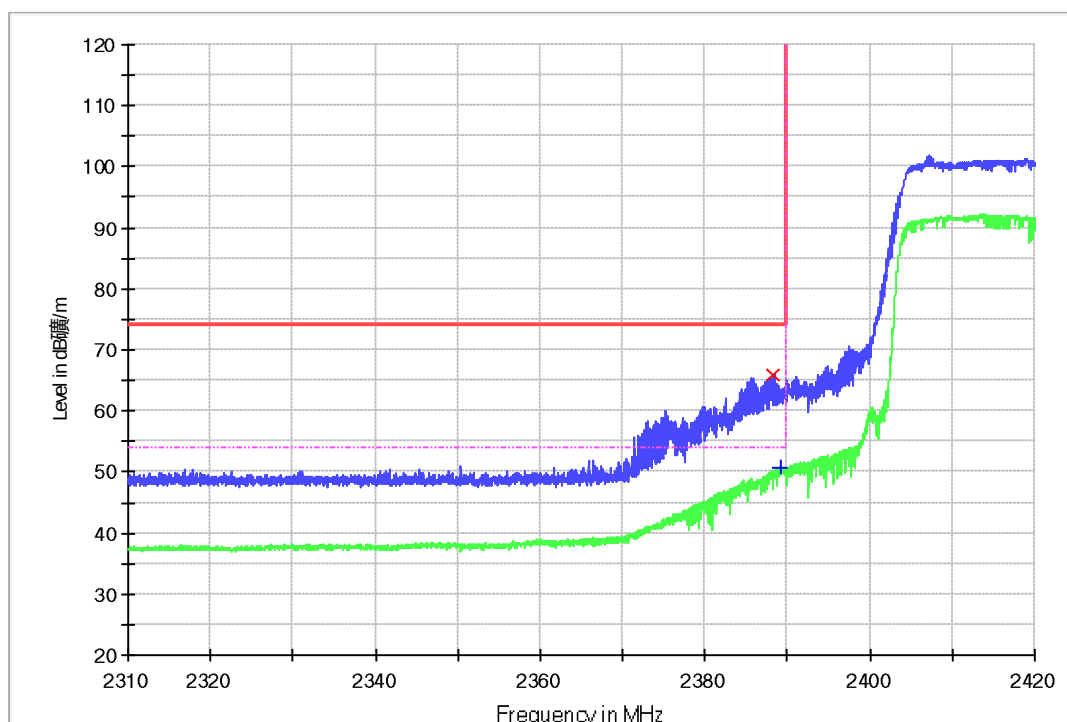
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2387.385000     | 58.9             | H   | -6.0         | 15.1              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.915000     | 45.0             | H   | -6.0         | 9.0               | 54.0                 |

**Figure 14: Radiated Band-Edge, n-HT40-2422MHz, V**

2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre


**PK**

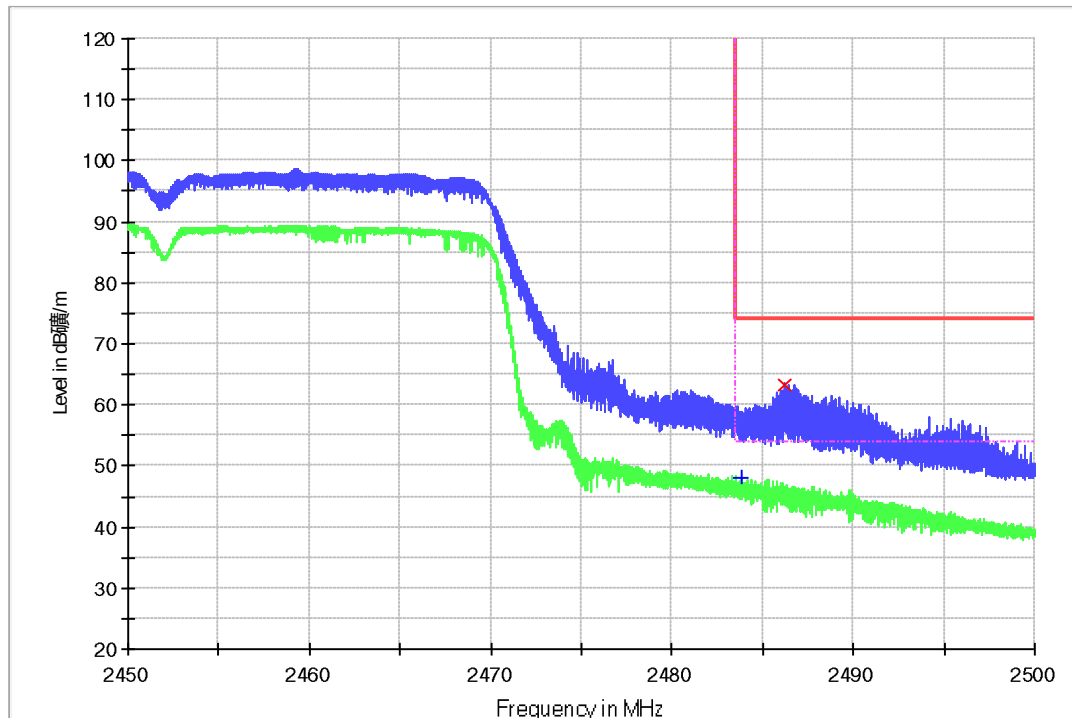
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2388.237500     | 65.9             | v   | -6.1         | 8.1               | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2389.200000     | 50.6             | v   | -6.0         | 3.4               | 54.0                 |

**Figure 15: Radiated Band-Edge, n-HT40-2452MHz, H**

2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre


**PK**

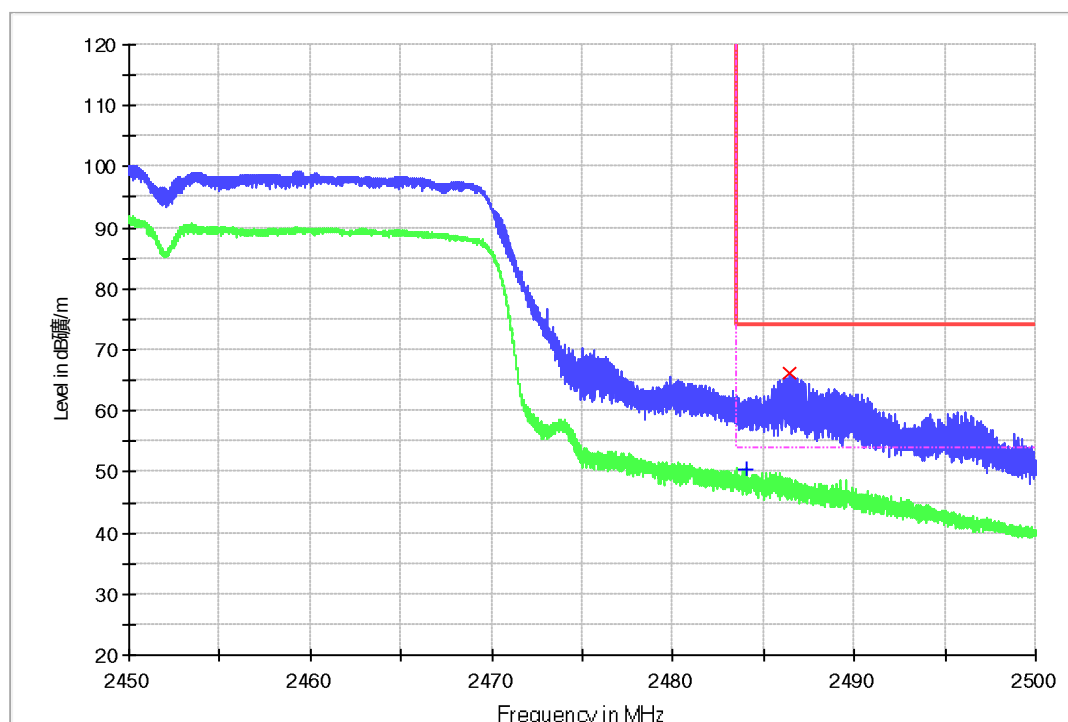
| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2486.250000     | 63.4             | H   | -6.2         | 10.6              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2483.800000     | 48.0             | H   | -6.2         | 6.0               | 54.0                 |

**Figure 16: Radiated Band-Edge, n-HT40-2452MHz, V**

2470° 2500 BE\_1-18GHz\_HL050\_FSV40\_Pre


**PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2486.431250     | 66.1             | v   | -6.2         | 7.9               | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 2484.093750     | 50.3             | v   | -6.2         | 3.7               | 54.0                 |

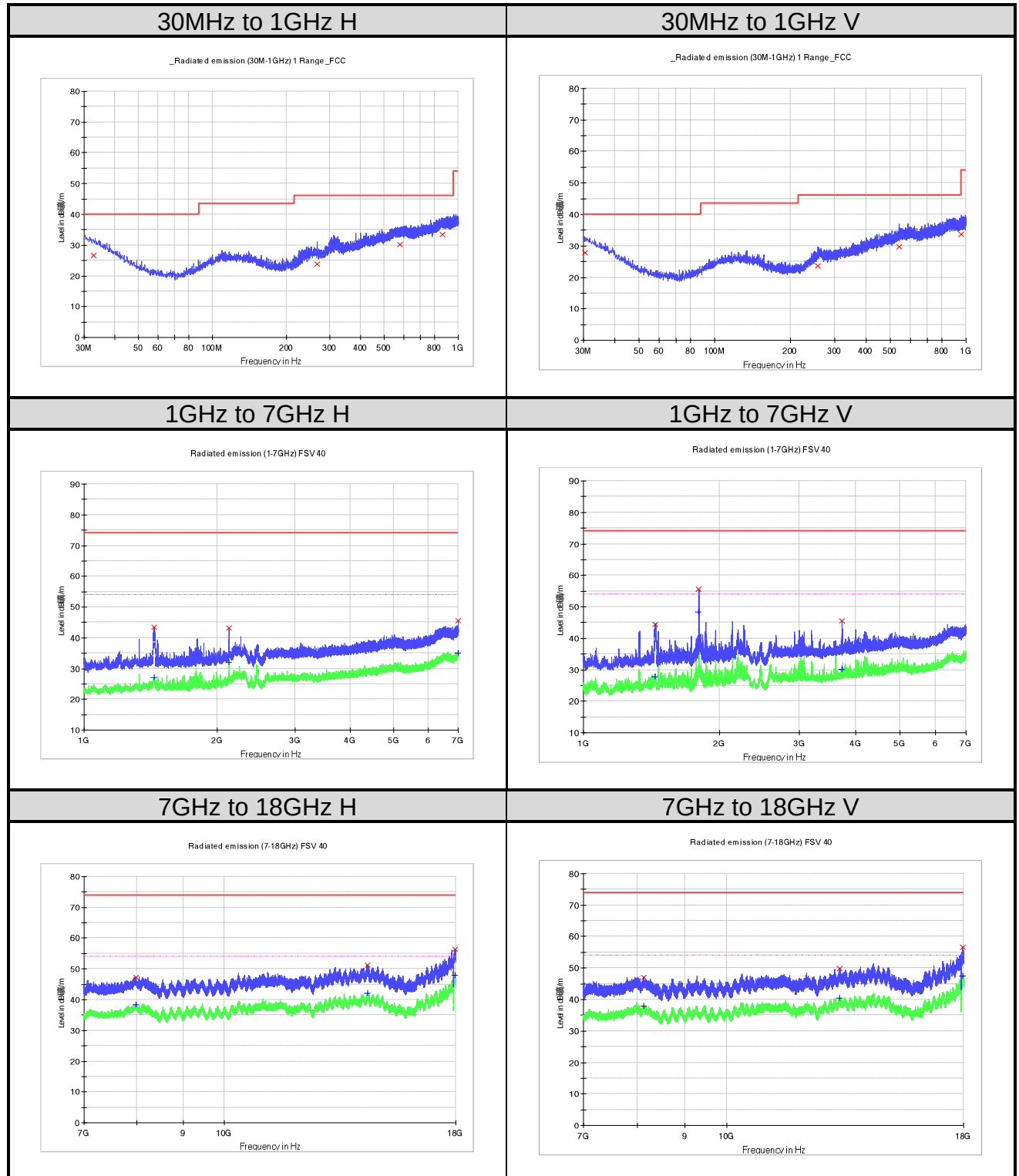
## 5.2.2 Radiated Spurious Emission

**RESULT:****Pass**

Date of testing : 2025-03-11  
Ambient temperature : 21.9°C  
Relative humidity : 56.2%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(d)  
FCC Part 15.209(a)  
RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9  
RSS-247 Issue 3, August 2023, Clause 5.5  
Test procedure : ANSI C63.10: 2013  
Test voltage : DC 14.4V  
Test modes applied : A

## Note:

1. All the test modes were applied, only the worst case were shown in this report.
2. For the frequency range from 18GHz to 25GHz, no emission was found.

**Figure 17: Radiated Spurious Emission, g-2462MHz**


**Limit and Margin**  
**QP**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 32.667500       | 26.8               | H   | 23.6         | 13.2              | 40.0                 |
| 265.831250      | 23.8               | H   | 20.6         | 22.2              | 46.0                 |
| 580.111250      | 30.2               | H   | 26.5         | 15.8              | 46.0                 |
| 860.077500      | 33.3               | H   | 28.9         | 12.7              | 46.0                 |
| 30.363750       | 27.9               | V   | 24.6         | 12.1              | 40.0                 |
| 257.707500      | 23.7               | V   | 20.5         | 22.3              | 46.0                 |
| 539.977500      | 29.7               | V   | 26.1         | 16.3              | 46.0                 |
| 960.108750      | 33.7               | V   | 29.5         | 20.3              | 54.0                 |

**PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1438.545455     | 43.4             | H   | -18.6        | 30.6              | 74.0                 |
| 2125.545455     | 43.2             | H   | -16.6        | 30.8              | 74.0                 |
| 6989.636364     | 45.5             | H   | -6.6         | 28.5              | 74.0                 |
| 7982.781250     | 47.3             | H   | -3.6         | 26.7              | 74.0                 |
| 14374.468750    | 51.2             | H   | 2.3          | 22.8              | 74.0                 |
| 17971.812500    | 56.3             | H   | 11.9         | 17.7              | 74.0                 |
| 1439.363636     | 44.5             | V   | -18.6        | 29.5              | 74.0                 |
| 1799.636364     | 55.6             | V   | -18.8        | 18.4              | 74.0                 |
| 3718.000000     | 45.5             | V   | -13.9        | 28.5              | 74.0                 |
| 8134.031250     | 47.1             | V   | -4.3         | 26.9              | 74.0                 |
| 13230.812500    | 49.9             | V   | 0.1          | 24.1              | 74.0                 |
| 17968.718750    | 56.5             | V   | 11.8         | 17.5              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1438.545455     | 27.0             | H   | -18.6        | 27.0              | 54.0                 |
| 2125.545455     | 32.1             | H   | -16.6        | 21.9              | 54.0                 |
| 6989.636364     | 35.1             | H   | -6.6         | 18.9              | 54.0                 |
| 7982.781250     | 38.4             | H   | -3.6         | 15.6              | 54.0                 |
| 14374.468750    | 42.0             | H   | 2.3          | 12.0              | 54.0                 |
| 17971.812500    | 48.0             | H   | 11.9         | 6.0               | 54.0                 |
| 1439.363636     | 27.7             | V   | -18.6        | 26.3              | 54.0                 |
| 1799.636364     | 48.3             | V   | -18.8        | 5.7               | 54.0                 |
| 3718.000000     | 30.1             | V   | -13.9        | 23.9              | 54.0                 |
| 8134.031250     | 37.8             | V   | -4.3         | 16.2              | 54.0                 |
| 13230.812500    | 40.4             | V   | 0.1          | 13.6              | 54.0                 |
| 17968.718750    | 47.5             | V   | 11.8         | 6.5               | 54.0                 |

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