



RF TEST REPORT

Report No.: 20250317G04610X-W4

Product Name: Multi-function Thermal Imager

Model No. : HCH50R

FCC ID: 2AY3N-COMPACT

Applicant: InfiRay Technologies Co., Ltd.

Address: Room 1705, Building A2, Phase 3, Innovation Industrial Park,
High-tech Zone, Hefei City, Anhui Province, China.

Dates of Testing: 03/12/2025 - 04/18/2025

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No.43, Shahe Road, Xili Street,
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Test Report

Product.....: Multi-function Thermal Imager
Trade Name: InfiRay Outdoor
Applicant.....: InfiRay Technologies Co., Ltd.
Applicant Address.....: Room 1705, Building A2, Phase 3, Innovation Industrial Park, High-tech Zone, Hefei City, Anhui Province, China.
Manufacturer.....: InfiRay Technologies Co., Ltd.
Manufacturer Address.....: Room 1705, Building A2, Phase 3, Innovation Industrial Park, High-tech Zone, Hefei City, Anhui Province, China.
Test Standards.....: 47 CFR Part 15 Subpart C 15.247
ANSI C63.10-2020
Test Result.....: Pass

Tested by: Chuiwang Zhang 2025.04.18
Chuiwang Zhang, Test Engineer

Reviewed by.....: Sun Jiaohui 2025.04.18
Sun Jiaohui, Senior Engineer

Approved by.....: Chris You 2025.04.18
Chris You, Manager

TABLE OF CONTENTS

| | |
|--|-----------|
| 1. GENERAL INFORMATION | 5 |
| 1.1. EUT Description | 5 |
| 1.2. Test Standards and Results | 6 |
| 1.3. Frequency Hopping System Requirements | 7 |
| 1.4. Table for Supporting Units | 8 |
| 1.5. EUT Operation Test Setup | 8 |
| 1.6. Test environment and mode | 8 |
| 1.7. Laboratory Facilities and Accreditation Certificate | 9 |
| 2. TEST REQUIREMENT | 10 |
| 2.1. Antenna requirement | 10 |
| 2.2. Number of Hopping Frequency | 11 |
| 2.3. Maximum Conducted Output Power | 13 |
| 2.4. 20dB and 99% Bandwidth | 15 |
| 2.5. Carried Frequency Separation | 17 |
| 2.6. Dwell time | 19 |
| 2.7. Conducted Spurious Emissions | 21 |
| 2.8. Conducted Band Edge | 23 |
| 2.9. Radiated Band Edges and Spurious Emission | 25 |
| 2.10. AC Power Line Conducted Emission | 32 |
| 3. LIST OF MEASURING EQUIPMENT | 36 |
| 4. UNCERTAINTY OF EVALUATION | 37 |
| APPENDIX A..... | 38 |



| Change History | | |
|----------------|------------|-------------------|
| Issue | Date | Reason for change |
| 1.0 | 2025.04.18 | First edition |
| | | |

1. General Information

1.1. EUT Description

| | |
|---------------------------------|--|
| Product Name | Multi-function Thermal Imager |
| EUT supports Radios application | Bluetooth |
| Frequency Range | 2402MHz~2480MHz |
| Channel Number | 79 |
| Bit Rate of Transmitter | 1/2/3Mbps |
| Modulation Type | GFSK, $\pi/4$ -DQPSK, 8DPSK |
| Antenna Type | Internal antenna |
| Antenna Gain | 0.5dBi |
| Power supply | Rechargeable Li-ion Battery DC3.6V/3650mAh |

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: Bluetooth signal has 9 packages 1DH1, 1DH3, 1DH5, 2DH1, 2DH3, 2DH5, 3DH1, 3DH3, 3DH5, DH5 package is largest, we are testing DH5 in the document.

Note 3: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

1.2. Test Standards and Results

The purpose of the report is to conduct testing according to the following FCC certification standards:

| No. | Identity | Document Title |
|-----|--|--|
| 1 | 47 CFR Part 15 Subpart C | Radio Frequency Devices |
| 2 | ANSI C63.10-2020 | American National Standard for Testing Unlicensed Wireless Devices |
| 3 | KDB 558074 D01 15.247 Meas Guidance v05r02 | Cuidance for Compliance Measurement on Digital Transmission Systems, Frequency Hopping Spread Spectrum Systems, and Hybrid System Devices Operating under Section 15.247 of the FCC Rules |

Test detailed items/section required by FCC rules and results are as below:

| No. | Section in CFR 47 | Description | Result |
|-----|-------------------------------|---|--------|
| 1 | 15.203 15.247(c) | Antenna Requirement | PASS |
| 2 | 15.247 (a)(1)(iii) | Number of Hopping Frequency | PASS |
| 3 | 15.247 (b)(1) | Maximum Conducted Output Power | PASS |
| 4 | 15.247 (a)(1) | 20dB Emission Bandwidth | PASS |
| 5 | 15.247 (a)(1) | Carrier Frequency Separation | PASS |
| 6 | 15.247 (a)(1)(iii) | Time of Occupancy (Dwell time) | PASS |
| 7 | 15.247(d) | Conducted Band Edge and Spurious Emission | PASS |
| 8 | 15.207 | AC Power Line Conducted Emission | PASS |
| 9 | 15.205 15.209 15.247(c) | Radiated Band Edges and Spurious Emission | PASS |

Note 1: The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2020.

Note 2: These RF tests were performed according to the method of measurements prescribed in KDB 558074 D01 15.247 Meas Guidance v05r02.

1.3. Frequency Hopping System Requirements

1.3.1. Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

- (g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.
- (h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

1.3.2. Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH-enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

This device was tested with a bluetooth system receiver to check that the device maintained hopping synchronization, and the device complied with these requirements for ANSI C63.10-2020 and FCC Part 15.247 rule.

Carrier Frequency and channel List:

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0 | 2402MHz | 20 | 2422MHz | 40 | 2442MHz | 60 | 2462MHz |
| 1 | 2403MHz | 21 | 2423MHz | 41 | 2443MHz | 61 | 2463MHz |
| 2 | 2404MHz | 22 | 2424MHz | 42 | 2444MHz | 62 | 2464MHz |
| 3 | 2405MHz | 23 | 2425MHz | 43 | 2445MHz | 63 | 2465MHz |
| 4 | 2406MHz | 24 | 2426MHz | 44 | 2446MHz | 64 | 2466MHz |
| 5 | 2407MHz | 25 | 2427MHz | 45 | 2447MHz | 65 | 2467MHz |
| ... | ... | ... | ... | ... | ... | ... | ... |
| 15 | 2417MHz | 35 | 2437MHz | 55 | 2457MHz | 75 | 2477MHz |
| 16 | 2418MHz | 36 | 2438MHz | 56 | 2458MHz | 76 | 2478MHz |
| 17 | 2419MHz | 37 | 2439MHz | 57 | 2459MHz | 77 | 2479MHz |
| 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| 19 | 2421MHz | 39 | 2441MHz | 59 | 2461MHz | | |

Note 1: $F(\text{MHz}) = 2402 + 1 * n$ ($0 \leq n \leq 78$).

Note 2: Channel 0, 39 & 78 selected for GFSK, $\pi/4$ -DQPSK and 8DPSK as Lowest, Middle and Highest Channel.

1.4. Table for Supporting Units

| No. | Equipment | Brand Name | Model Name | Manufacturer | Serial No. | Note |
|-----|-----------|------------|------------|--------------|------------|---------|
| 1 | Laptop | HP | TPN-Q221 | HP | 5CD14347QB | FCC DOC |

1.5. EUT Operation Test Setup

For RF test items, an engineering test program was provided and enable to make EUT transmitting.

1.6. Test environment and mode

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

| Operating Environment | |
|-----------------------|---|
| Temperature | 15°C - 35°C |
| Humidity | 30% -60% |
| Atmospheric Pressure | 86kPa-106kPa |
| Test mode: | |
| Non-hopping mode: | Keep the EUT in continuous transmitting mode with worst case data rate. |
| Hopping mode: | Keep the EUT in hopping mode. |



1.7. Laboratory Facilities and Accreditation Certificate

☒ CCIC-SET Lab 1

Address: Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China

FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A, CAB number: CN0064

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

CNAS L1659

CCIC Southern Testing Co., Ltd. CCIC is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

☐ CCIC-SET Lab 4

Address: No.125, Hongmei Section, Wangsha Road, Hongmei Town, Dongguan City, Guangdong Province, China

CNAS L1659

CCIC Southern Testing Co., Ltd. CCIC is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

2. Test Requirement

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

And according to FCC 47 CFR Section 15.247(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna Category: Internal Antenna

A internal Antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

| No. | EUT | Operating frequency range | Ant. Type | Ant. Gain |
|-----|-------------------------------|---------------------------|------------------|-----------|
| 1 | Multi-function Thermal Imager | 2402-2480MHz | Internal Antenna | 0.5dBi |

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Number of Hopping Frequency

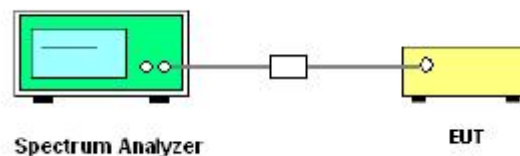
2.2.1. Limit of Number of Hopping Frequency

Frequency hopping systems operating in the 2400MHz to 2483.5MHz bands shall use at least 15 hopping frequencies.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 Section 7.8.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
Span: The frequency band of operation / RBW: Set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, Whichever is smaller / VBW \geq RBW / Sweep: Auto / Detector function: Peak / Trace: Max hold / Allow the trace to stabilize.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement results in the test report.



2.2.5. Test Results of Number of Hopping Frequency

Please refer to Appendix A for detail.

2.3. Maximum Conducted Output Power

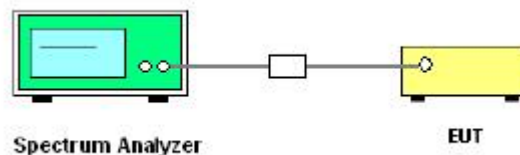
2.3.1. Limit of Maximum Conducted Output Power

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 Section 7.8.5.
2. The RF output of EUT was connected to Spectrum analyzer by RF cable and attenuator. The pathloss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings:
Set span to be Approximately five times the 20 dB bandwidth, centered on a hopping channel /
RBW > 20 dB bandwidth of the emission being measured / VBW \geq RBW / Sweep: Auto / Detector function: Peak / Trace: Max hold / Allow trace to stabilize / Use the marker-to-peak function to set the marker to the peak of the emission.
5. Record the measurement results in the test report.



2.3.5. Test Result of Maximum Conducted Output Power

Please refer to Appendix A for detail.

2.4. 20dB and 99% Bandwidth

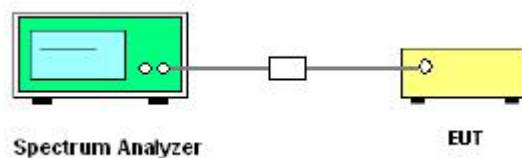
2.4.1. Definition

According to FCC §15.247(a)(1), the 20dB bandwidth is known as the 99% emission bandwidth, or 20dB bandwidth ($10 \cdot \log 1\% = 20\text{dB}$) taking the total RF output power.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup



2.4.4. Test Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 Section 7.8.6.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the spectrum analyzer “Channel Bandwidth” function to easurement the 20dB EBW and 99% OBW.
5. For 6dB EBW Use the following spectrum analyzer settings:
Using the X dB bandwidth mode of the instrument's automatic bandwidth measurement function,
X is set to 20 dB / The spectrum analyzer center frequency is set to the EUT channel center
frequency / Set span to be approximately 2 to 5 times the OBW / $\text{RBW} \geq 1\%$ to 5% of the OBW /
VBW shall be approximately three times RBW / Sweep: Auto / Detector mode: Peak / Trace mode:
Max hold.
6. For 99% OBW Use the following spectrum analyzer settings:
Set $\text{RBW} =$ approximately 1% EBW or 1.5 times to 5.0 times the OBW, $\text{VBW} \geq 3 \times \text{RBW}$.
7. Record the measurement results in the test report.



2.4.5. Test Results of 20dB Emission Bandwidth

Please refer to Appendix A for detail.

2.5. Carried Frequency Separation

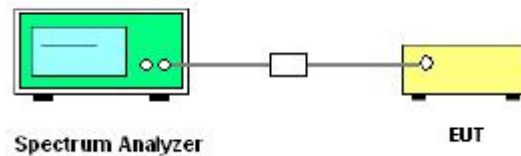
2.5.1. Limit of Carried Frequency Separation

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 Section 7.8.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
 - Span: wide enough to capture the peaks of two adjacent channels /
 - RBW: Start with the RBW set to approximately 30% of the channel spacing / $VBW \geq RBW$ /
 - Sweep: Auto / Detector function: Peak / Trace: Max hold / Allow the trace to stabilize /
 - Use the marker-delta function to determine the separation between the peaks of the adjacent channels.
6. Record the measurement results in the test report.



2.5.5. Test Results of Carried Frequency Separation

Please refer to Appendix A for detail.

2.6. Dwell time

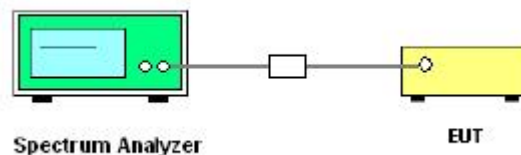
2.6.1. Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

2.6.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup



2.6.4. Test Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 Section 7.8.4.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
 - Span: Zero span, centered on a hopping channel / RBW shall be \leq channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel /
 - VBW \geq RBW / Sweep: As necessary to capture the entire dwell time per hopping channel /
 - Detector function: Peak / Trace: Max hold.
6. Record the measurement results in the test report.



2.6.5. Test Results of Dwell Time

Please refer to Appendix A for detail.

2.7. Conducted Spurious Emissions

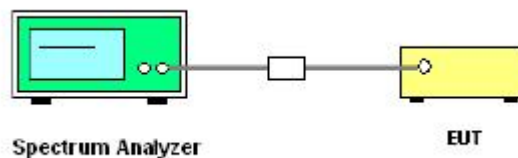
2.7.1. Limit of Conducted Spurious Emissions

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that.

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup



2.7.4. Test Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 Section 7.8.7.1.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings:
Set the frequency range to 30MHz~25GHz / RBW: 100kHz / VBW: 300kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum amplitude level.
5. Record the measurement results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



2.7.5. Test Results of Conducted Spurious Emissions

Please refer to Appendix A for detail.

2.8. Conducted Band Edge

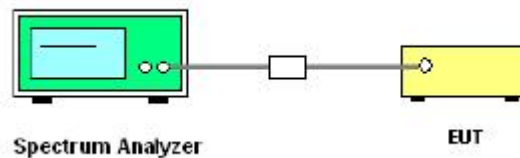
2.8.1. Limit of Conducted Band Edge

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that.

2.8.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.8.3. Test Setup



2.8.1. Test Procedure

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 Section 7.8.7.2.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings:
Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation / RBW: 100kHz / VBW: 300kHz / Detector: Peak / Sweep time: Auto couple / Trace mode: Max hold / Allow trace to fully stabilize / Use the peak marker function to determine the maximum power level.
5. Enable hopping function of the EUT and then repeat step 3 and 4.
6. Record the measurement results in the test report.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



2.8.2. Test Results of Conducted Band Edge

Please refer to Appendix A for detail.

2.9. Radiated Band Edges and Spurious Emission

2.9.1. Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level. If the transmitter uses an RMS average conducted power limit, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

§15.209(a) Radiated emission limits:

| Frequency (MHz) | Field Strength ($\mu\text{V/m}$) | Measurement Distance (m) |
|-----------------|------------------------------------|--------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

Restricted bands of operation refer to §15.205 (a):

| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | / | / | / |

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

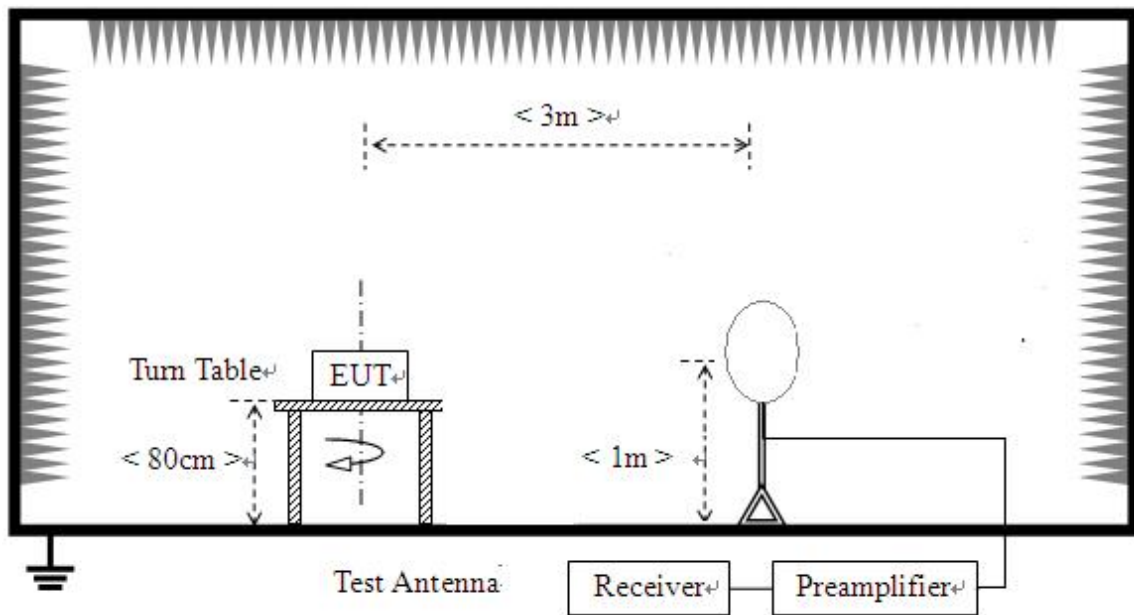
²Above 38.6.

2.9.2. Measuring Instruments

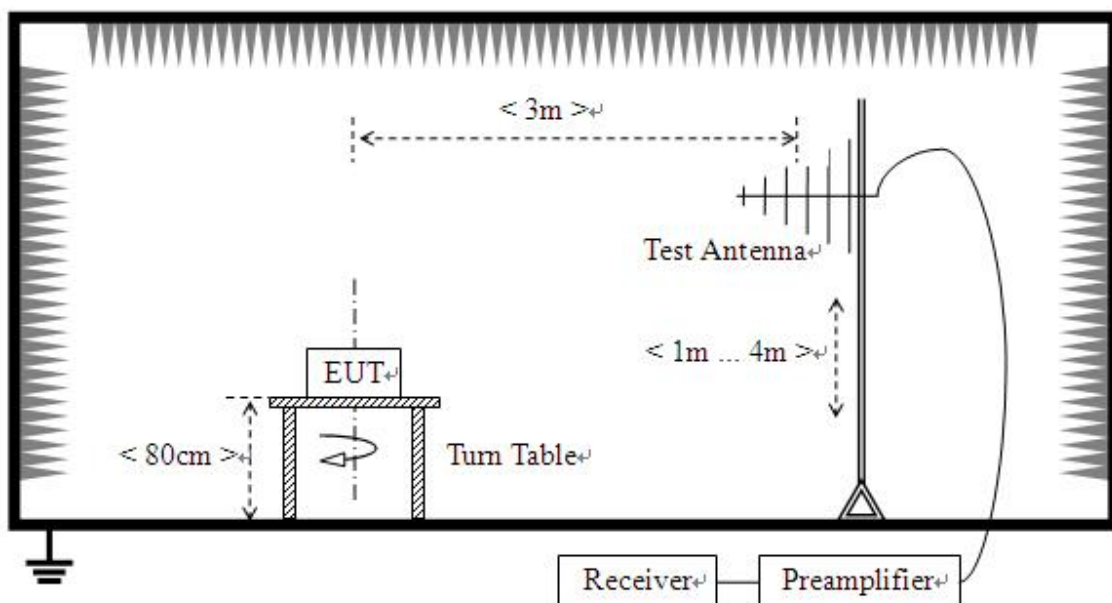
The measuring equipment is listed in the section 3 of this test report.

2.9.3. Test Setup

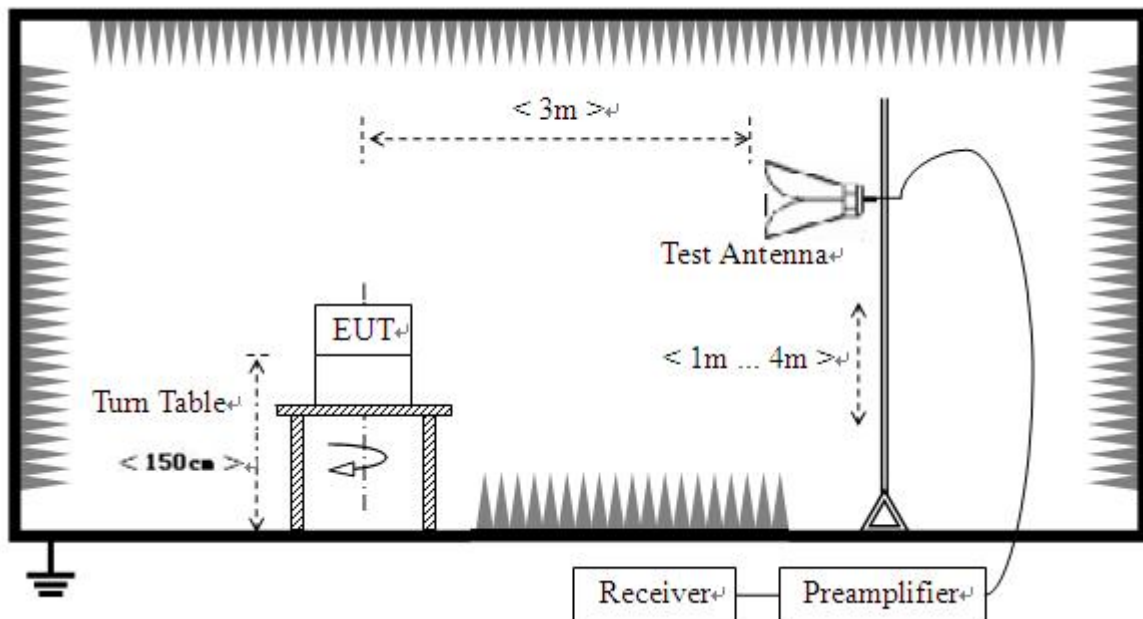
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.9.4. Test Procedure

1. The EUT was placed on the top of a rotating table 0.8m for below 1GHz and 1.5m for above 1GHz above the ground at a 3 meters semi-anechoic chamber.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. Height of receiving antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then

reported in a data sheet.

7. For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

2.9.5. Test Results of Radiated Band Edge and Spurious Emission

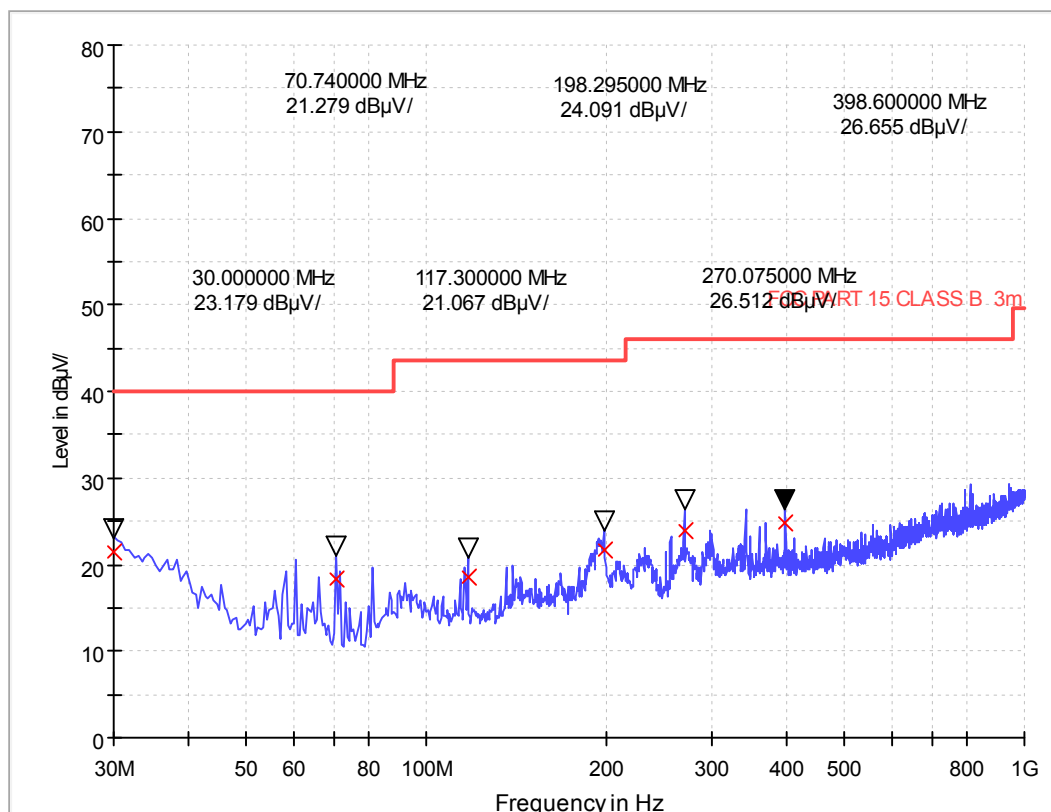
For 9 kHz to 30MHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1GHz, All of the EUT Configure mode were tested and found DH5_2441MHz channel is the worst mode, the worst case is recorded in this report.

For 1GHz to 25GHz, All EUT configuration modes were tested, this report reflects worst-case (DH5) test results only.

For 30MHz to 1000MHz

| | | | |
|------------|---------------------|--------------|----------------------------|
| Test site: | 3M anechoic chamber | Environment: | Temp: 22℃; Humi:57%;101kPa |
| Operator: | Huang Chaoming | Test Date: | 2025.03.17 |
| Test Mode: | BT - TX | Test Result: | Pass |

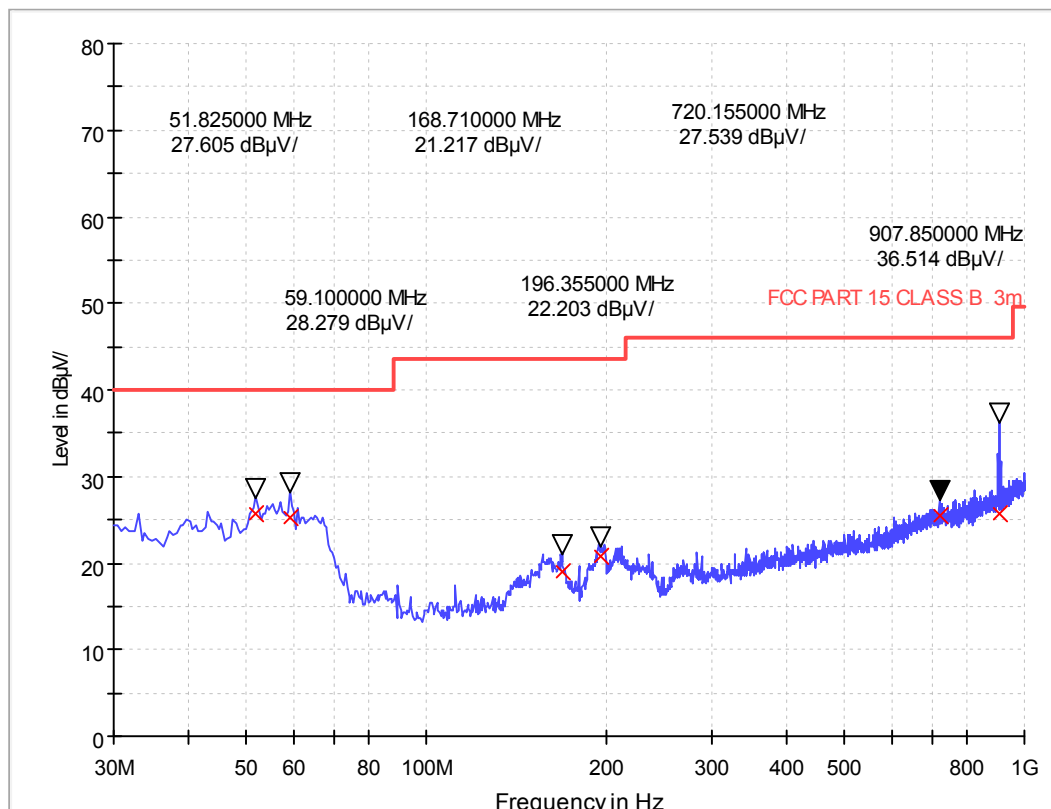


| Frequency (MHz) | QuasiPeak (dBμV/m) | Bandwidth (kHz) | Height (cm) | Polarity | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBμV/m) |
|-----------------|--------------------|-----------------|-------------|----------|--------------|-------------------|----------------------|
| 30.000000 | 21.43 | 120.000 | 100.0 | H | 18.57 | 40.0 | 159 |
| 70.720000 | 18.40 | 120.000 | 100.0 | H | 21.60 | 40.0 | 50 |
| 117.280000 | 18.60 | 120.000 | 100.0 | H | 24.90 | 43.5 | 78 |
| 198.280000 | 21.64 | 120.000 | 100.0 | H | 21.86 | 43.5 | 94 |
| 270.080000 | 23.81 | 120.000 | 100.0 | H | 22.19 | 46.0 | 227 |
| 398.600000 | 24.81 | 120.000 | 100.0 | H | 21.19 | 46.0 | 315 |

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Only the antenna height (from 1m to 4m) at maximum reading are recorded.

| | | | |
|------------|---------------------|--------------|----------------------------|
| Test site: | 3M anechoic chamber | Environment: | Temp: 22℃; Humi:57%;101kPa |
| Operator: | Huang Chaoming | Test Date: | 2025.03.17 |
| Test Mode: | BT - TX | Test Result: | Pass |



| Frequency (MHz) | QuasiPeak (dBμV/m) | Bandwidth (kHz) | Height (cm) | Polarity | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBμV/m) |
|-----------------|--------------------|-----------------|-------------|----------|--------------|-------------------|----------------------|
| 51.840000 | 25.64 | 120.000 | 100.0 | V | 14.36 | 40.0 | 200 |
| 59.080000 | 25.34 | 120.000 | 100.0 | V | 14.66 | 40.0 | 62 |
| 168.720000 | 19.03 | 120.000 | 100.0 | V | 24.47 | 43.5 | 159 |
| 196.360000 | 20.82 | 120.000 | 100.0 | V | 22.68 | 43.5 | 221 |
| 720.160000 | 25.45 | 120.000 | 100.0 | V | 20.55 | 46.0 | 54 |
| 907.840000 | 25.60 | 120.000 | 100.0 | V | 20.40 | 46.0 | 187 |

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB).
3. Margin value = Limit value - Emission Level.
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Only the antenna height (from 1m to 4m) at maximum reading are recorded.

For 1GHz to 25GHz

| GFSK_2402MHz | | | | | | | | | |
|-----------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 2390.00 | 54.13 | 74.00 | -19.87 | 1.50 | 150 | 57.22 | -3.09 | Horizontal | Peak |
| 2390.00 | 43.76 | 54.00 | -10.24 | 1.50 | 150 | 46.85 | -3.09 | Horizontal | Average |
| 4804.00 | 48.97 | 74.00 | -25.03 | 1.50 | 150 | 47.71 | 1.26 | Horizontal | Peak |
| 4804.00 | 39.20 | 54.00 | -14.80 | 1.50 | 150 | 37.94 | 1.26 | Horizontal | Average |
| 7206.00 | 51.26 | 74.00 | -22.74 | 1.50 | 150 | 45.09 | 6.17 | Horizontal | Peak |
| 7206.00 | 40.78 | 54.00 | -13.22 | 1.50 | 150 | 34.61 | 6.17 | Horizontal | Average |
| 2390.00 | 53.83 | 74.00 | -20.17 | 1.50 | 200 | 56.92 | -3.09 | Vertical | Peak |
| 2390.00 | 43.79 | 54.00 | -10.21 | 1.50 | 200 | 46.88 | -3.09 | Vertical | Average |
| 4804.00 | 47.88 | 74.00 | -26.12 | 1.50 | 200 | 46.62 | 1.26 | Vertical | Peak |
| 4804.00 | 38.89 | 54.00 | -15.11 | 1.50 | 200 | 37.63 | 1.26 | Vertical | Average |
| 7206.00 | 51.15 | 74.00 | -22.85 | 1.50 | 200 | 44.98 | 6.17 | Vertical | Peak |
| 7206.00 | 40.71 | 54.00 | -13.29 | 1.50 | 200 | 34.54 | 6.17 | Vertical | Average |

| GFSK_2480MHz | | | | | | | | | |
|-----------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 2483.50 | 54.35 | 74.00 | -19.65 | 1.50 | 150 | 59.10 | -4.75 | Horizontal | Peak |
| 2483.50 | 44.47 | 54.00 | -9.53 | 1.50 | 150 | 49.22 | -4.75 | Horizontal | Average |
| 4960.00 | 47.12 | 74.00 | -26.88 | 1.50 | 150 | 46.88 | 0.24 | Horizontal | Peak |
| 4960.00 | 36.66 | 54.00 | -17.34 | 1.50 | 150 | 36.42 | 0.24 | Horizontal | Average |
| 7440.00 | 49.96 | 74.00 | -24.04 | 1.50 | 150 | 44.14 | 5.82 | Horizontal | Peak |
| 7440.00 | 40.28 | 54.00 | -13.72 | 1.50 | 150 | 34.46 | 5.82 | Horizontal | Average |
| 2483.50 | 54.01 | 74.00 | -19.99 | 1.50 | 200 | 58.76 | -4.75 | Vertical | Peak |
| 2483.50 | 44.66 | 54.00 | -9.34 | 1.50 | 200 | 49.41 | -4.75 | Vertical | Average |
| 4960.00 | 46.24 | 74.00 | -27.76 | 1.50 | 200 | 46.00 | 0.24 | Vertical | Peak |
| 4960.00 | 36.62 | 54.00 | -17.38 | 1.50 | 200 | 36.38 | 0.24 | Vertical | Average |
| 7440.00 | 48.99 | 74.00 | -25.01 | 1.50 | 200 | 43.17 | 5.82 | Vertical | Peak |
| 7440.00 | 39.92 | 54.00 | -14.08 | 1.50 | 200 | 34.10 | 5.82 | Vertical | Average |

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.
5. Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.

2.10. AC Power Line Conducted Emission

2.10.1. Limit of AC Power Line Conducted Emission

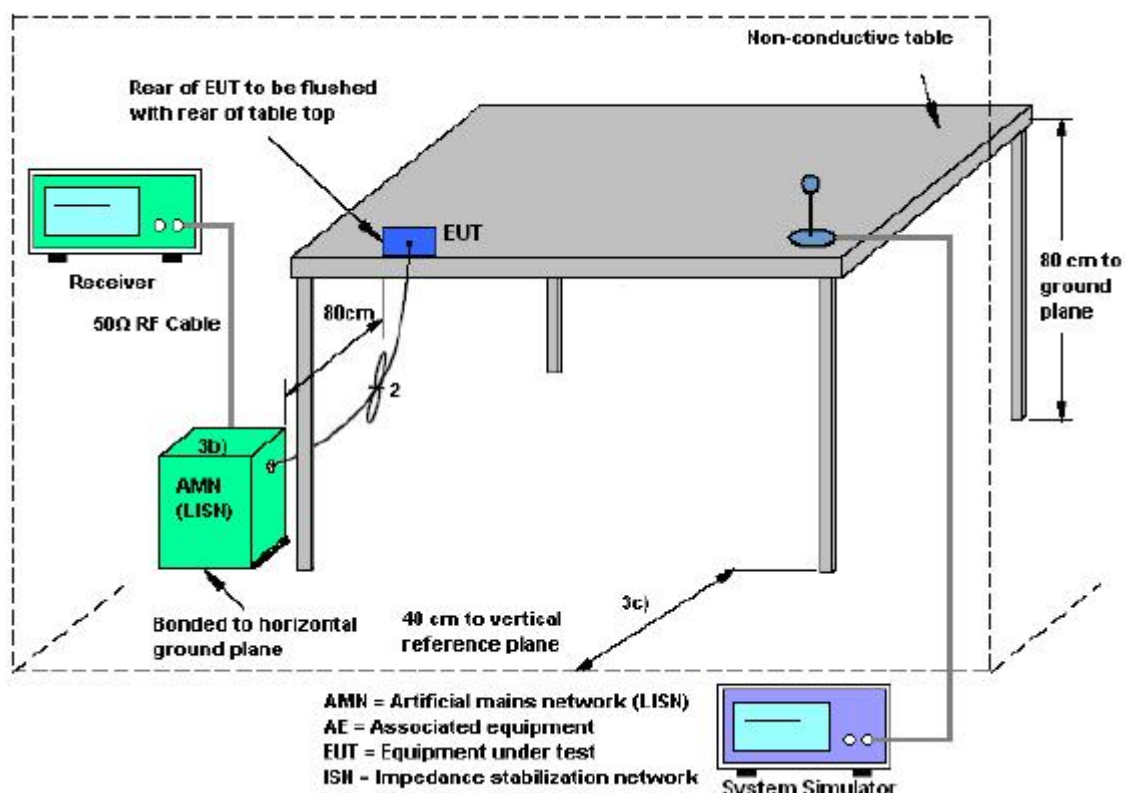
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency range (MHz) | Conducted Limit (dB μ V) | |
|-----------------------|------------------------------|----------|
| | Quai-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |

2.10.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.10.3. Test Setup



2.10.4. Test Procedures

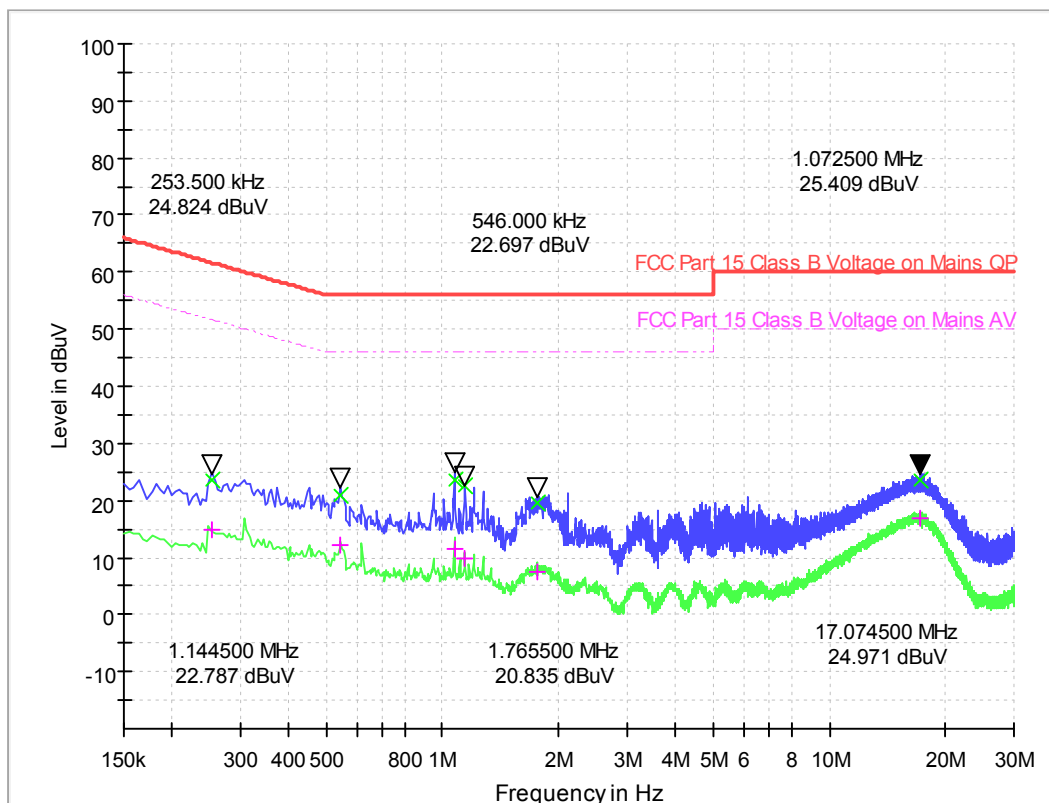
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 micrometry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.10.5. Test Results of AC Power Line Conducted Emission

The EUT configuration of the emission tests is Bluetooth Link + USB Cable (Charging from Adapter).

All of the EUT Configure mode were tested and found DH5_2441MHz channel is the worst mode, the worst case is recorded in this report.

| | | | |
|------------|---------------|--------------|-----------------------------|
| Test site: | Shield ROOM 1 | Environment: | Temp: 25°C; Humi:55%;101kPa |
| Operator: | CAIFUJIE | Test Date: | 2025.03.13 |
| Test Mode: | BT- TX | Test Part: | L Line |



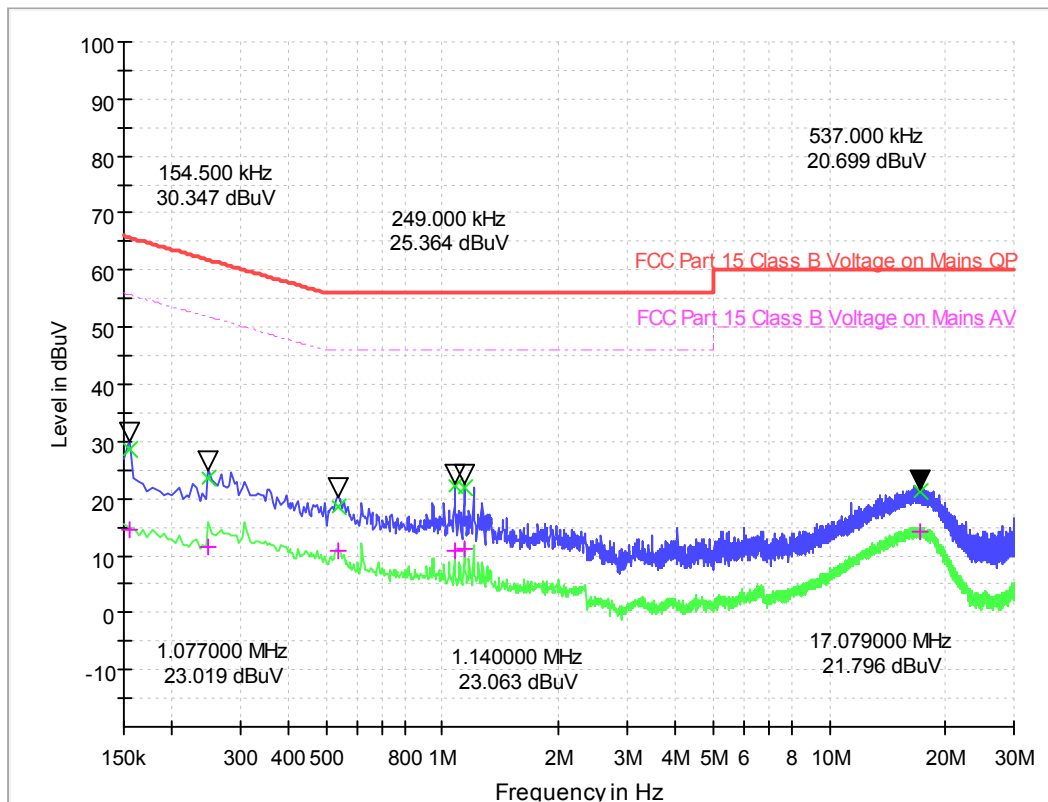
| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Corr.Factor (dB) | Margin - QPK | Limit - QPK (dBμV) | Margin - AV (dB) | Limit - AV (dBμV) |
|-----------------|------------------|----------------|------------------|--------------|--------------------|------------------|-------------------|
| 0.253500 | 23.56 | 14.72 | 9.9 | 38.08 | 61.64 | 36.92 | 51.64 |
| 0.546000 | 20.78 | 12.09 | 9.9 | 35.22 | 56.00 | 33.91 | 46.00 |
| 1.072500 | 23.64 | 11.62 | 10.0 | 32.36 | 56.00 | 34.38 | 46.00 |
| 1.144500 | 22.51 | 9.96 | 10.0 | 33.49 | 56.00 | 36.04 | 46.00 |
| 1.765500 | 19.40 | 7.45 | 10.0 | 36.60 | 56.00 | 38.55 | 46.00 |
| 17.074500 | 23.48 | 16.84 | 10.5 | 36.52 | 60.00 | 33.16 | 50.00 |

Test Result : Pass

Note: Final Level = Receiver Read level + Correction factor.



| | | | |
|------------|---------------|--------------|-----------------------------|
| Test site: | Shield ROOM 1 | Environment: | Temp: 25°C; Humi:55%;101kPa |
| Operator: | CAIFUJIE | Test Date: | 2025.03.13 |
| Test Mode: | BT - TX | Test Part: | N Line |



| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Corr.Factor (dB) | Margin - QPK | Limit - QPK (dBμV) | Margin - AV (dB) | Limit - AV (dBμV) |
|-----------------|------------------|----------------|------------------|--------------|--------------------|------------------|-------------------|
| 0.154500 | 28.51 | 14.56 | 9.9 | 37.24 | 65.75 | 41.19 | 55.75 |
| 0.249000 | 23.63 | 11.62 | 9.9 | 38.16 | 61.79 | 40.18 | 51.79 |
| 0.537000 | 18.59 | 10.81 | 9.9 | 37.41 | 56.00 | 35.19 | 46.00 |
| 1.077000 | 22.31 | 10.89 | 10.0 | 33.69 | 56.00 | 35.11 | 46.00 |
| 1.140000 | 21.84 | 11.22 | 10.0 | 34.16 | 56.00 | 34.78 | 46.00 |
| 17.079000 | 21.06 | 14.26 | 10.5 | 38.94 | 60.00 | 35.74 | 50.00 |

Test Result : Pass

Note: Final Level = Receiver Read level + Correction factor.

3. List of measuring equipment

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|-----------------------------------|---------------|---------------------------|------------|------------|------------|
| 1 | 5M Anechoic Chamber | Albatross | SAC-5MAC 12.8x6.8x6.4m | A0304210 | 2023.08.01 | 2026.07.31 |
| 2 | EMI Test Receiver | ROHDE&SCHWARZ | ESW26 | A180502935 | 2024.05.23 | 2025.05.22 |
| 3 | Loop Antenna | Schwarz beck | HFH2-Z2 | A0304220 | 2022.05.02 | 2025.05.01 |
| 4 | Broadband antenna (30MHz~1GHz) | R&S | HL562 | A0304224 | 2023.06.08 | 2026.06.07 |
| 5 | EMI Horn Ant. (1-18G) | ETC | MCTD-1209 | A150402241 | 2023.05.16 | 2026.05.15 |
| 6 | Horn antenna (18GHz~26.5GHz) | AR | AT4510 | A0804450 | 2023.06.01 | 2026.05.31 |
| 7 | Amplifier 30M~1GHz | TESEQ | CBA1G-600B | A190503534 | 2024.09.05 | 2025.09.04 |
| 8 | Amplifier 1G~18GHz | MILMEGA | AS0104R-800/400 | A160302517 | 2024.05.25 | 2025.05.24 |
| 9 | Spectrum Analyzer | KEYSIGHT | N9030A | A160702554 | 2024.12.31 | 2025.12.30 |
| 10 | Test Receiver | R&S | ESIB7 | A0501375 | 2025.01.13 | 2026.01.12 |
| 11 | Broadband Ant. | ETC | MCTD 2786 | A150402240 | 2023.05.22 | 2026.05.21 |
| 12 | 3M Anechoic Chamber | Albatross | SAC-3MAC 9*6*6m | A0412375 | 2024.02.27 | 2027.02.26 |
| 13 | Test Receiver | KEYSIGHT | N9038A | A141202036 | 2024.06.05 | 2025.06.04 |
| 14 | LISN | ROHDE&SCHWARZ | ENV216 | A140701847 | 2024.05.23 | 2025.05.22 |
| 15 | Cable(9kHz~30MHz) | / | / | C230800587 | 2023.08.21 | 2026.08.20 |
| 16 | Cable(30MHz~18GHz) | / | XSMJA750-SMN M(RA)-12M | C230800588 | 2023.08.21 | 2026.08.20 |
| 17 | Cable(18GHz~40GHz) | / | SUCOFLEX102 | C230800590 | 2023.08.21 | 2026.08.20 |

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of AC Power Line Conducted Emission Measurement (150kHz~30MHz)

| | |
|---|-------|
| Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$) | 2.8dB |
|---|-------|

Uncertainty of Radiated Emission Measurement (9kHz~30MHz)

| | |
|---|-------|
| Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$) | 3.5dB |
|---|-------|

Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

| | |
|---|--------|
| Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$) | 3.91dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

| | |
|---|-------|
| Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$) | 4.5dB |
|---|-------|

Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

| | |
|---|-------|
| Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$) | 4.9dB |
|---|-------|

Uncertainty of RF Conducted Measurement (9kHz~40GHz)

| | |
|---|-------|
| Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$) | 1.3dB |
|---|-------|



Appendix A

Duty Cycle

Test Result and Data

| Test Mode | Antenna | Frequency[MHz] | ON Time[ms] | Period[ms] | Duty Cycle[%] | DC Factor |
|-----------|---------|----------------|-------------|------------|---------------|-----------|
| DH5 | Ant1 | 2402 | 2.88 | 3.74 | 77.01 | 1.13 |
| DH5 | Ant1 | 2441 | 2.88 | 3.74 | 77.01 | 1.13 |
| DH5 | Ant1 | 2480 | 2.88 | 3.74 | 77.01 | 1.13 |
| 2DH5 | Ant1 | 2402 | 2.90 | 3.76 | 77.13 | 1.13 |
| 2DH5 | Ant1 | 2441 | 2.88 | 3.74 | 77.01 | 1.13 |
| 2DH5 | Ant1 | 2480 | 2.88 | 3.74 | 77.01 | 1.13 |
| 3DH5 | Ant1 | 2402 | 2.88 | 3.74 | 77.01 | 1.13 |
| 3DH5 | Ant1 | 2441 | 2.88 | 3.74 | 77.01 | 1.13 |
| 3DH5 | Ant1 | 2480 | 2.88 | 3.74 | 77.01 | 1.13 |



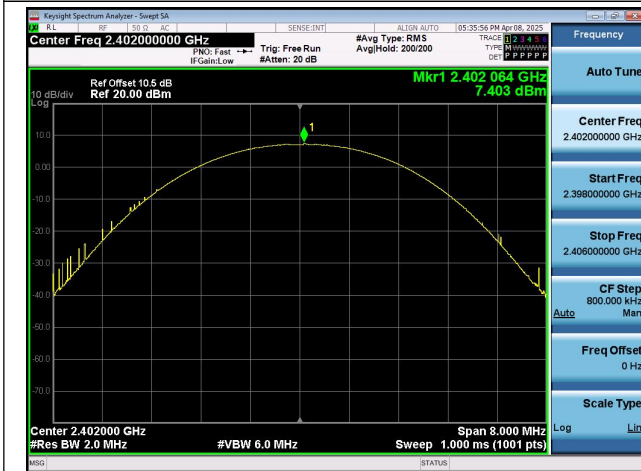
Maximum Conducted Output Power

Test Result and Data

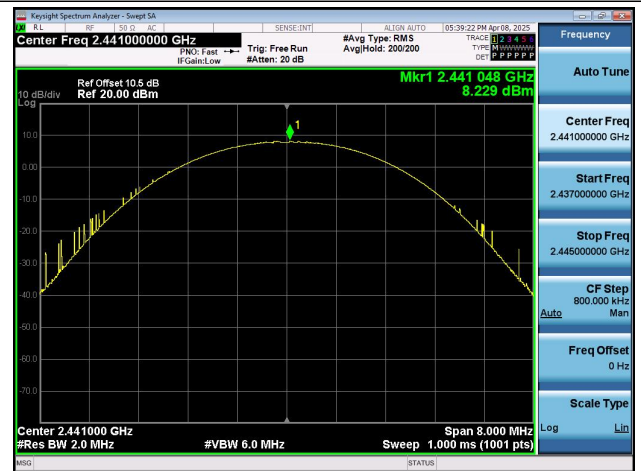
| Test Mode | Antenna | Frequency[MHz] | Peak Output Power[dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|------------------------|-------------|---------|
| DH5 | Ant1 | 2402 | 7.40 | ≤30 | PASS |
| DH5 | Ant1 | 2441 | 8.23 | ≤20.97 | PASS |
| DH5 | Ant1 | 2480 | 7.75 | ≤20.97 | PASS |
| 2DH5 | Ant1 | 2402 | 5.13 | ≤30 | PASS |
| 2DH5 | Ant1 | 2441 | 5.98 | ≤20.97 | PASS |
| 2DH5 | Ant1 | 2480 | 5.78 | ≤20.97 | PASS |
| 3DH5 | Ant1 | 2402 | 5.70 | ≤30 | PASS |
| 3DH5 | Ant1 | 2441 | 6.41 | ≤20.97 | PASS |
| 3DH5 | Ant1 | 2480 | 6.18 | ≤20.97 | PASS |

Test Graphs

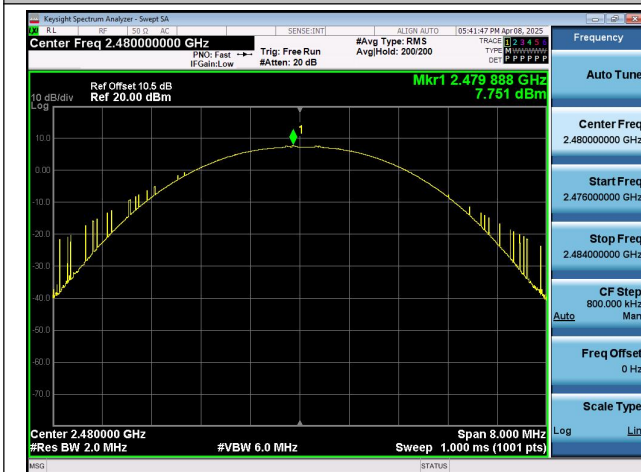
DH5-Ant1-2402-PASS



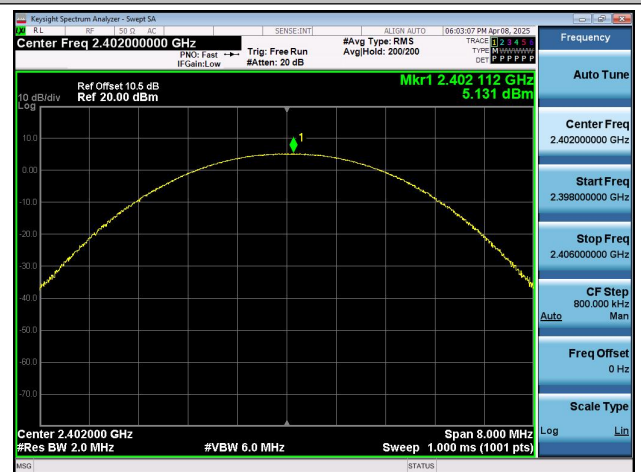
DH5-Ant1-2441-PASS



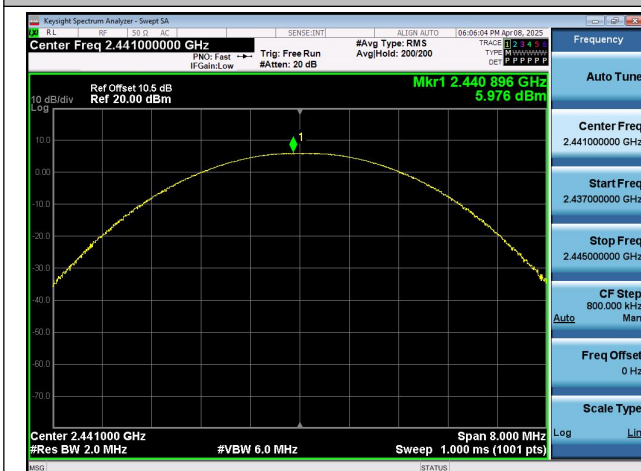
DH5-Ant1-2480-PASS



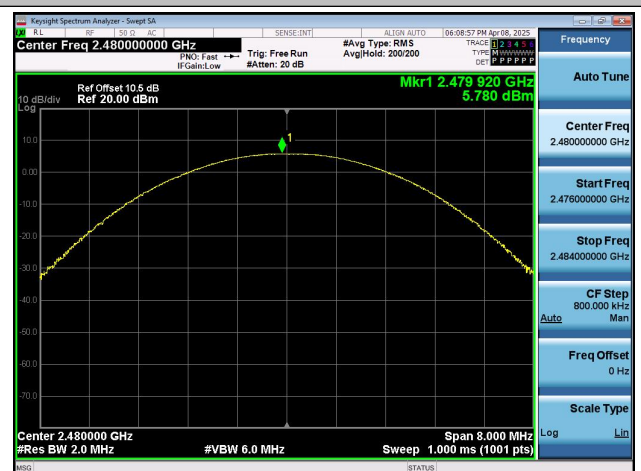
2DH5-Ant1-2402-PASS



2DH5-Ant1-2441-PASS

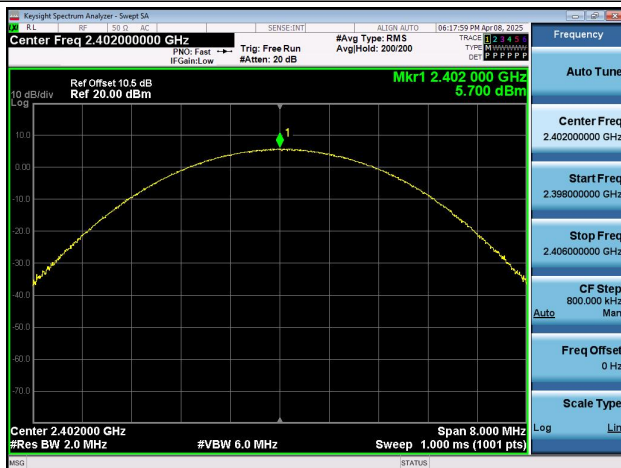


2DH5-Ant1-2480-PASS

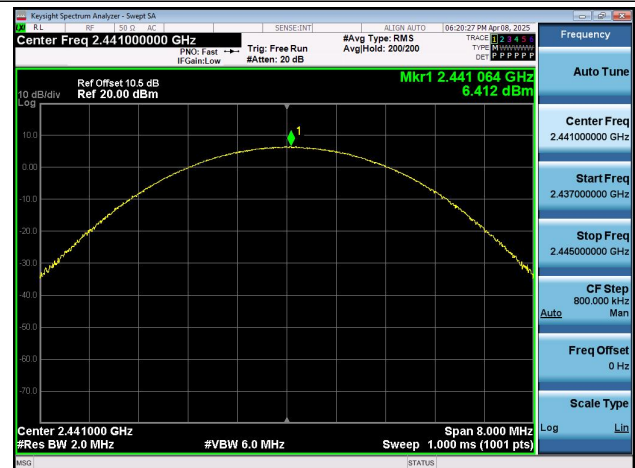




3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS





20dB Emission Bandwidth

Test Result and Data

| Test Mode | Antenna | Frequency[MHz] | 20 EBW [MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|------------|---------|
| DH5 | Ant1 | 2402 | 1.041 | --- | --- |
| DH5 | Ant1 | 2441 | 1.041 | --- | --- |
| DH5 | Ant1 | 2480 | 1.041 | --- | --- |
| 2DH5 | Ant1 | 2402 | 1.365 | --- | --- |
| 2DH5 | Ant1 | 2441 | 1.356 | --- | --- |
| 2DH5 | Ant1 | 2480 | 1.362 | --- | --- |
| 3DH5 | Ant1 | 2402 | 1.317 | --- | --- |
| 3DH5 | Ant1 | 2441 | 1.338 | --- | --- |
| 3DH5 | Ant1 | 2480 | 1.317 | --- | --- |

Test Graphs

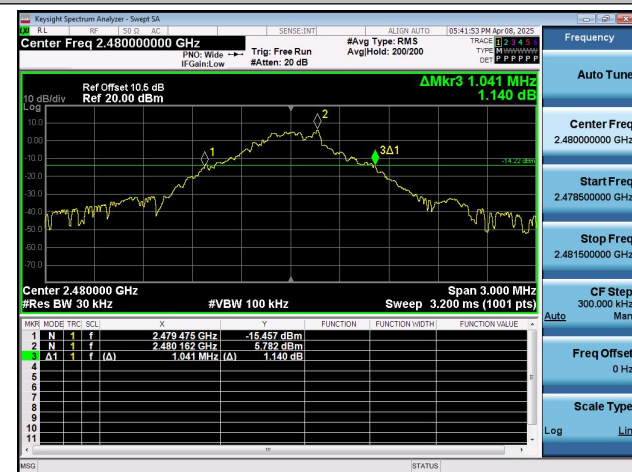
DH5-Ant1-2402



DH5-Ant1-2441



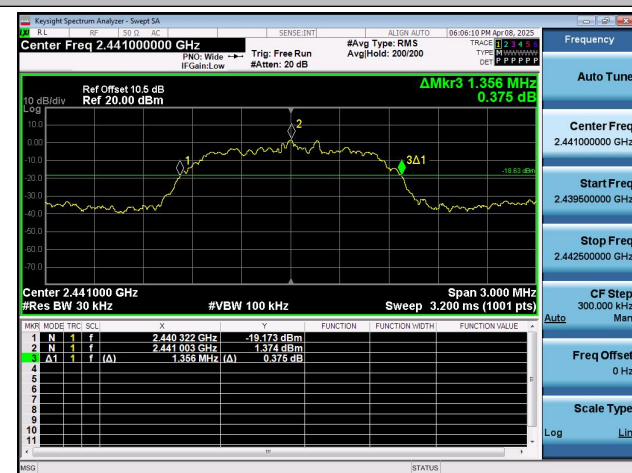
DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480





3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480





99% Occupied Bandwidth

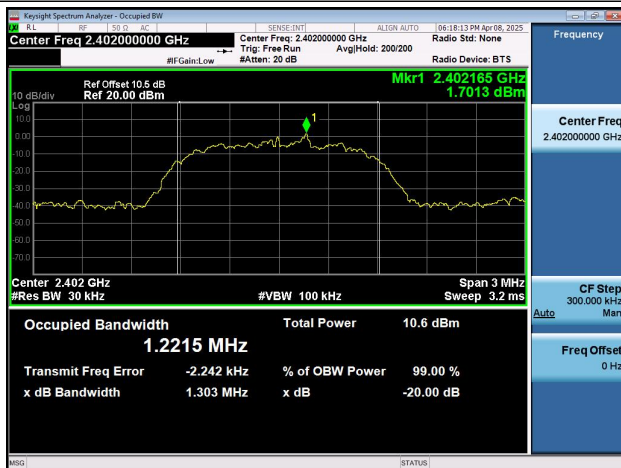
Test Result and Data

| Test Mode | Antenna | Frequency[MHz] | 99% OBW[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|--------------|------------|---------|
| DH5 | Ant1 | 2402 | 0.91380 | --- | --- |
| DH5 | Ant1 | 2441 | 0.93245 | --- | --- |
| DH5 | Ant1 | 2480 | 0.90620 | --- | --- |
| 2DH5 | Ant1 | 2402 | 1.2140 | --- | --- |
| 2DH5 | Ant1 | 2441 | 1.2211 | --- | --- |
| 2DH5 | Ant1 | 2480 | 1.2384 | --- | --- |
| 3DH5 | Ant1 | 2402 | 1.2215 | --- | --- |
| 3DH5 | Ant1 | 2441 | 1.2291 | --- | --- |
| 3DH5 | Ant1 | 2480 | 1.2495 | --- | --- |

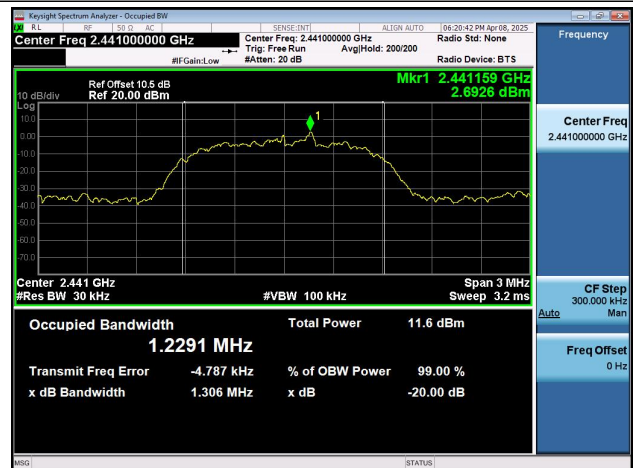
Test Graphs



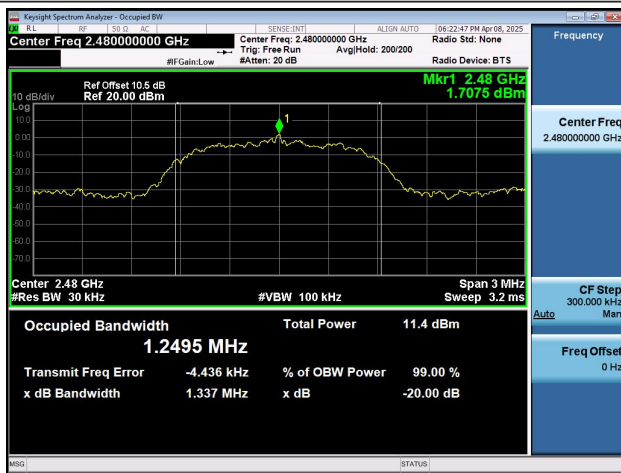
3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480





Carrier frequency separation

Test Result and Data

| Test Mode | Antenna | Frequency[MHz] | Result[MHz] | Limit[MHz] | Verdict |
|-----------|---------|----------------|-------------|--------------|---------|
| DH5 | Ant1 | Hop | 1.256 | ≥ 1.041 | PASS |
| 2DH5 | Ant1 | Hop | 1.142 | ≥ 0.910 | PASS |
| 3DH5 | Ant1 | Hop | 0.954 | ≥ 0.892 | PASS |

Note: All modes and channels are tested and only worst-case data are reported.

Test Graphs

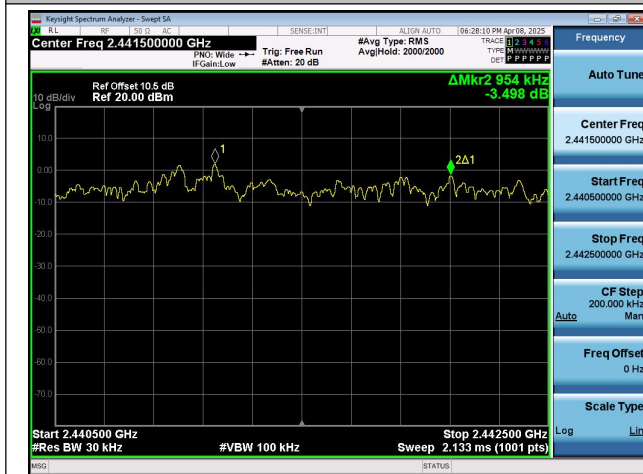
DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



**Time of occupancy****Test Result and Data**

| Test Mode | Antenna | Frequency[MHz] | BurstWidth[ms] | TotalHops [Num] | Result[s] | Limit[s] | Verdict |
|-----------|---------|----------------|----------------|-----------------|-----------|----------|---------|
| DH5 | Ant1 | Hop | 2.885 | 107 | 0.309 | ≤0.4 | PASS |
| 2DH5 | Ant1 | Hop | 2.888 | 110 | 0.318 | ≤0.4 | PASS |
| 3DH5 | Ant1 | Hop | 2.891 | 107 | 0.309 | ≤0.4 | PASS |

Note: All modes and channels are tested and only worst-case data are reported.