# TEST REPORT

For WiFi-2.4GHz Band

| | |
|---|---|
| **Report No. ..... :** | **CHTEW22090147** Report Verification: |
| **Project No.....:** | **SHT2205045601EW** |
| **FCC ID ..... :** | **TV7L41GXD** |
| **Applicant's name ..... :** | **Mikrotikls SIA** |
| Address.....: | Brivibas gatve 214i, Riga, LV-1039, Latvia |
| **Product Name ..... :** | **hAP ax lite** |
| Trade Mark .....: | MikroTik |
| Model No. .....: | L41G-2axD |
| Listed Model(s) .....: | - |
| **Standard ..... :** | **FCC CFR Title 47 Part 15 Subpart C Section 15.247** |
| Date of receipt of test sample.....: | Jul.14, 2022 |
| Date of testing.....: | Jul.14, 2022- Sep.27, 2022 |
| Date of issue.....: | Sep.28, 2022 |
| **Result.....:** | **PASS** |

| | | |
|---|---|---|
| Compiled by ( Position+Printed name+Signature): | File administrator Echo Wei | Echo Wei |
| Supervised by (Position+Printed name+Signature): | Project Engineer Kiki Kong | Kiki Kong |
| Approved by (Position+Printed name+Signature): | RF Manager Hans Hu | Hans Hu |

| | |
|---|---|
| **Testing Laboratory Name ..... :** | **Shenzhen Huatongwei International Inspection Co., Ltd.** |
| Address.....: | 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China |

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# 1. TEST STANDARDS AND REPORT VERSION

## 1.1. Test Standards

The tests were performed according to following standards:

– FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

– ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

– KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

– KDB662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

– KDB662911 D02 MIMO with Cross-Polarized Antennas v01: MIMO with Cross-Polarized Antenna

## 1.2. Report version

| Revision No. | Date of issue | Description |
|---|---|---|
| N/A | 2022-09-28 | Original |
| | | |
| | | |
| | | |
| | | |

# 2. TEST DESCRIPTION

| Report clause | Test Items | Standard Requirement | Result | Test Engineer |
|---|---|---|---|---|
| 5.1 | Antenna Requirement | 15.203/15.247(c) | PASS | Xiaoxiao Li |
| 5.2 | AC Conducted Emission | 15.207 | PASS | Junman Wang |
| 5.3 | Peak Output Power | 15.247(b)(3) | PASS | Xiaoxiao Li |
| 5.4 | Power Spectral Density | 15.247(e) | PASS | Xiaoxiao Li |
| 5.5 | 6dB Bandwidth | 15.247(a)(2) | PASS | Xiaoxiao Li |
| 5.6 | 99% Occupied Bandwidth | - | PASS*1 | Xiaoxiao Li |
| 5.7 | Duty cycle | - | PASS*1 | Xiaoxiao Li |
| 5.8 | Conducted Band Edge and Spurious Emission | 15.247(d)/15.205 | PASS | Xiaoxiao Li |
| 5.9 | Radiated Band Edge Emission | 15.205/15.209 | PASS | Xiaoxiao Li |
| 5.10 | Radiated Spurious Emission | 15.247(d)/15.205/15.209 | PASS | Quanhai Deng |

Note:

– The measurement uncertainty is not included in the test result.

– *1: No requirement on standard, only report these test data.

# 3. SUMMARY

## 3.1. Client Information

| | |
|---|---|
| Applicant: | Mikrotikls SIA |
| Address: | Brivibas gatve 214i, Riga, LV-1039, Latvia |
| Manufacturer: | Mikrotikls SIA |
| Address: | Brivibas gatve 214i, Riga, LV-1039, Latvia |

## 3.2. Product Description

| | |
|---|---|
| **Main unit information:** | |
| Product Name: | hAP ax lite |
| Trade Mark: | MikroTik |
| Model No.: | L41G-2axD |
| Listed Model(s): | - |
| Power supply: | DC 5V from Adapter |
| Hardware version: | r2 |
| Software version: | RouterOS v7 |
| **Accessory unit information:** | |
| Adapter information: | Model: MT13-052400-U<br>Input: 100-240Va.c.,50/60Hz 0.35A<br>Output: 5.0Vd.c.,2400mA 12.0W |

## 3.3. Radio Specification Description

| | | | | |
|---|---|---|---|---|
| Support type*2: | ☒ 802.11b | ☒ 802.11g | ☒ 802.11n | ☒ 802.11ax |
| Support bandwidth: | ☒ 20MHz | ☒ 40MHz | | |
| Modulation: | 802.11b: | DBPSK, DQPSK, BPSK, QPSK | | |
| | 802.11g/n/ax: | BPSK, QPSK, 16QAM, 64QAM | | |
| Operation frequency: | 802.11b/g/n(HT20)/ax(HT20): | 2412MHz~2462MHz | | |
| | 802.11n(HT40)/ax(HT40): | 2422MHz~2452MHz | | |
| Channel number: | 802.11b/g/n(HT20)/ax(HT20): | 11 | | |
| | 802.11n(HT40)/ax(HT40): | 7 | | |
| Channel separation: | 5MHz | | | |
| Antenna technology: | ☐ SISO | ☒ MIMO | | |
| Antenna Delivery: | ☐ 1*TX+1*RX | ☒ 2*TX+2*RX | ☐ 3*TX+3*RX | |
| Antenna type: | Internal Antenna | | | |
| Antenna gain: | 4.3dBi | | | |

Note:

*2: only show the RF function associated with this report.

## 3.4. Testing Laboratory Information

| | | |
|---|---|---|
| Laboratory Name | Shenzhen Huatongwei International Inspection Co., Ltd. | |
| Laboratory Location | 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China | |
| Connect information: | Phone: 86-755-26715499<br>E-mail: cs@szhtw.com.cn<br>http://www.szhtw.com.cn | |
| Qualifications | Type | Accreditation Number |
| | FCC | 762235 |

# 4. TEST CONFIGURATION

## 4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

| 802.11b/802.11g/802.11n(HT20)/802.11ax(HT20) | | 802.11n(HT40)/802.11ax(HT40) | |
|---|---|---|---|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| **01** | **2412** | **03** | **2422** |
| 02 | 2417 | 04 | 2427 |
| · : | · : | · : | · : |
| **06** | **2437** | **06** | **2437** |
| · : | · : | · : | · : |
| 10 | 2457 | 08 | 2447 |
| **11** | **2462** | **09** | **2452** |

## 4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

| Modulation | Data rate |
|---|---|
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(HT20)/802.11ax(HT20) | MCS0 |
| 802.11n(HT40)/802.11ax(HT40) | MCS0 |

## 4.3. Test mode

| For RF test items |
|---|
| The engineering test program was provided and enabled to make EUT continuous transmit. |
| For AC power line conducted emissions: |
| The EUT was set to connect with the WLAN AP under large package sizes transmission. |
| For Radiated spurious emissions test item: |
| The engineering test program was provided and enabled to make EUT continuous transmit.<br>The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report. |

## 4.4. Test sample information

| Test item | HTW sample no. |
|---|---|
| RF Conducted test items | Please refer to the description in the appendix report |
| RF Radiated test items | YPHT22050456005 |
| EMI test items | YPHT22050456002 |

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

## 4.5. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

| Whether support unit is used? | | | |
|---|---|---|---|
| ✓ No | | | |
| Item | Equipment | Trade Name | Model No. |
| 1 | | | |
| 2 | | | |

## 4.6. Testing environmental condition

| Type | Requirement | Actual |
|---|---|---|
| Temperature: | 15~35°C | 25°C |
| Relative Humidity: | 25~75% | 50% |
| Air Pressure: | 860~1060mbar | 1000mbar |

## 4.7. Statement of the measurement uncertainty

| Test Item | Measurement Uncertainty |
|---|---|
| AC Conducted Emission (150kHz~30MHz) | 3.00 dB |
| Radiated Emission (30MHz~1000MHz | 4.36 dB |
| Radiated Emissions (1GHz~25GHz) | 5.10 dB |
| Peak Output Power | 0.77dB |
| Power Spectral Density | 0.77dB |
| Conducted Spurious Emission | 0.77dB |
| 6dB Bandwidth | 70Hz for <1GHz<br>130Hz for >1GHz |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## 4.8. Equipment Used during the Test

| ● Conducted Emission | | | | | | | |
|---|---|---|---|---|---|---|---|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Shielded Room | Albatross projects | HTWE0114 | N/A | N/A | 2018/09/28 | 2023/09/27 |
| ● | EMI Test Receiver | R&S | HTWE0111 | ESCI | 101247 | 2022/08/30 | 2023/08/29 |
| ● | Artificial Mains | SCHWARZBECK | HTWE0113 | NNLK 8121 | 573 | 2022/08/29 | 2023/08/28 |
| ● | Pulse Limiter | R&S | HTWE0193 | ESH3-Z2 | 101447 | 2022/08/29 | 2023/08/28 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0113-02 | ENVIROFLEX_142 | EF-NM-BNCM-2M | 2022/09/17 | 2023/09/16 |
| ● | Test Software | R&S | N/A | ES-K1 | N/A | N/A | N/A |

| ● Radiated emission-6th test site | | | | | | | |
|---|---|---|---|---|---|---|---|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Semi-Anechoic Chamber | Albatross projects | HTWE0127 | SAC-3m-02 | C11121 | 2018/09/30 | 2023/09/29 |
| ● | EMI Test Receiver | R&S | HTWE0099 | ESCI | 100900 | 2022/08/30 | 2023/08/29 |
| ● | Loop Antenna | R&S | HTWE0170 | HFH2-Z2 | 100020 | 2021/04/06 | 2024/04/05 |
| ● | Ultra-Broadband Antenna | SCHWARZBECK | HTWE0123 | VULB9163 | 538 | 2021/04/06 | 2024/04/05 |
| ● | Pre-Amplifer | SCHWARZBECK | HTWE0295 | BBV 9742 | N/A | 2021/11/05 | 2022/11/04 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0062-01 | N/A | N/A | 2022/02/25 | 2023/02/24 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0062-02 | SUCOFLEX104 | 501184/4 | 2022/02/25 | 2023/02/24 |
| ● | Test Software | R&S | N/A | ES-K1 | N/A | N/A | N/A |

| ● Radiated emission-7th test site | | | | | | | |
|---|---|---|---|---|---|---|---|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Semi-Anechoic Chamber | Albatross projects | HTWE0122 | SAC-3m-01 | C11121 | 2018/09/27 | 2023/09/26 |
| ● | Spectrum Analyzer | R&S | HTWE0098 | FSP40 | 100597 | 2022/08/25 | 2023/08/24 |
| ● | Horn Antenna | SCHWARZBECK | HTWE0126 | 9120D | 1011 | 2020/04/01 | 2023/03/31 |
| ● | Broadband Horn Antenna | SCHWARZBECK | HTWE0103 | BBHA9170 | BBHA9170472 | 2020/04/27 | 2023/04/26 |
| ● | Pre-amplifier | CD | HTWE0071 | PAP-0102 | 12004 | 2021/11/05 | 2022/11/04 |
| ● | Broadband Pre-amplifier | SCHWARZBECK | HTWE0201 | BBV 9718 | 9718-248 | 2022/02/28 | 2023/02/27 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0120-01 | 6m 18GHz S Serisa | N/A | 2022/02/25 | 2023/02/24 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0120-02 | 6m 3GHz RG Serisa | N/A | 2022/02/25 | 2023/02/24 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0119-05 | 6m 3GHz RG Serisa | N/A | 2022/02/25 | 2023/02/24 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0120-04 | 6m 3GHz RG Serisa | N/A | 2022/02/25 | 2023/02/24 |
| ● | Test Software | Audix | N/A | E3 | N/A | N/A | N/A |

| ● | RF Conducted Method | | | | | |
|---|---|---|---|---|---|---|
| Used | Test Equipment | Manufacturer | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Signal and spectrum Analyzer | R&S | FSV40 | 100048 | 2022/08/25 | 2023/08/24 |
| ● | Spectrum Analyzer | Agilent | N9020A | MY50510187 | 2022/08/25 | 2023/08/24 |
| ● | Power Meter | Anritsu | ML249A | N/A | 2022/08/25 | 2023/08/24 |
| ○ | Radio communication tester | R&S | CMW500 | 137688-Lv | 2022/08/25 | 2023/08/24 |

# 5. TEST CONDITIONS AND RESULTS

## 5.1. Antenna Requirement

**Requirement**

**FCC CFR Title 47 Part 15 Subpart C Section 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

**FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):**

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

The product has two external antennas, both two are 5dBi antenna gain, and the product is a CDD device with the same gain, according to KDB 662911 D01 section F, the Directional gain=Gant + Array gain

For power spectral density measurements on all devices,

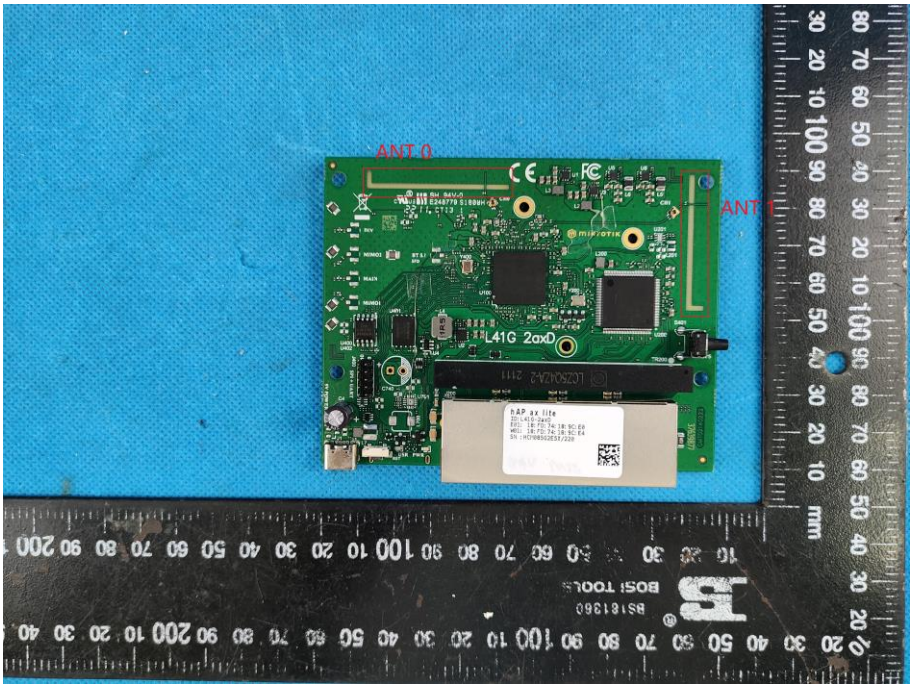
Array gain=10log(Nant/Nss) dB,

So the Directional gain=4.3+10log(2/2)=4.3dBi which is less than 6 dBi requirement

For power measurements on IEEE 802.11 devices,

Array gain=0 dB for Nant≤4

So the Directional gain=4.3+0=4.3dBi which is less than 6 dBi requirement,please refer to the below antenna photo.



## 5.2. AC Conducted Emission

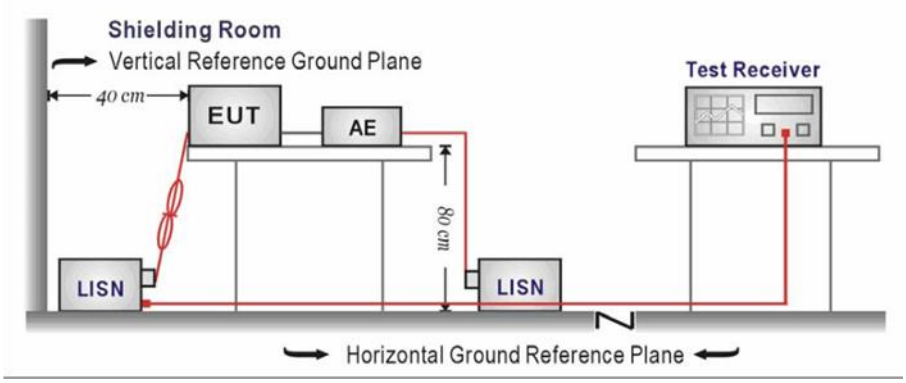
**LIMIT**

**FCC CFR Title 47 Part 15 Subpart C Section 15.207**

| Frequency range (MHz) | Limit (dBuV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

**TEST CONFIGURATION**




**TEST PROCEDURE**

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

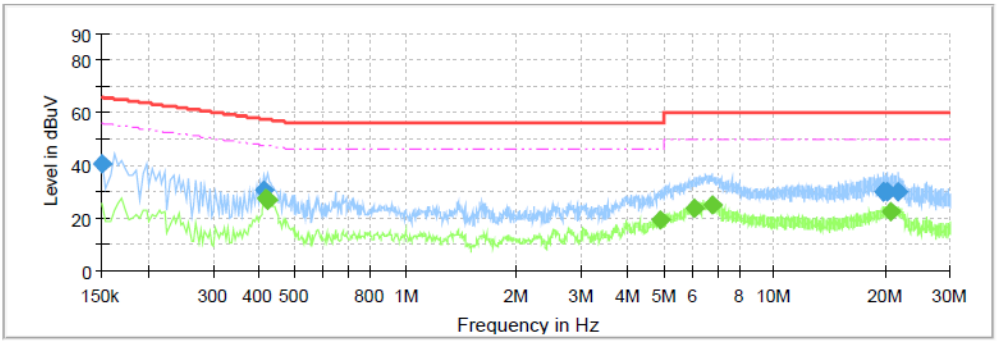
**TEST MODE:**

Please refer to the clause 4.2

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

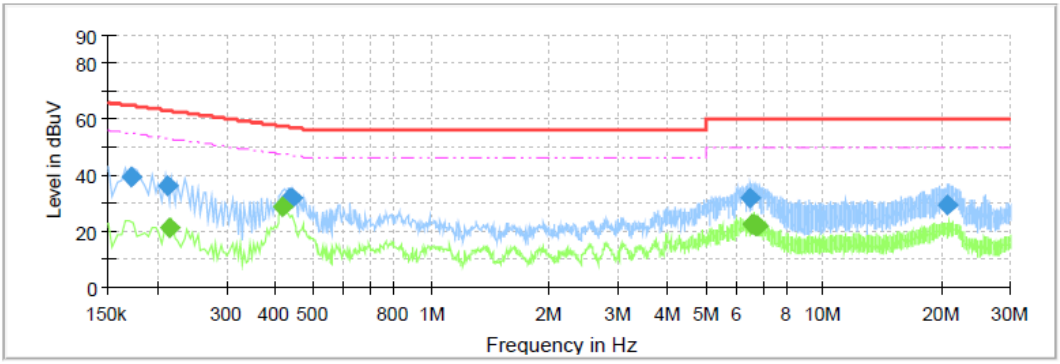
| Test Line: | L |
|---|---|




## Final_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|---|---|---|---|---|---|---|
| 0.150000 | 40.80 | --- | 66.00 | 25.20 | L1 | 10.1 |
| 0.411500 | 30.66 | --- | 57.62 | 26.96 | L1 | 10.1 |
| 0.419500 | --- | 27.58 | 47.46 | 19.87 | L1 | 10.1 |
| 0.423500 | --- | 27.17 | 47.38 | 20.21 | L1 | 10.1 |
| 4.927500 | --- | 19.21 | 46.00 | 26.79 | L1 | 10.3 |
| 6.079500 | --- | 23.62 | 50.00 | 26.38 | L1 | 10.3 |
| 6.787500 | --- | 24.79 | 50.00 | 25.21 | L1 | 10.4 |
| 19.739500 | 29.86 | --- | 60.00 | 30.14 | L1 | 10.8 |
| 19.852500 | 30.07 | --- | 60.00 | 29.93 | L1 | 10.8 |
| 20.163500 | 30.21 | --- | 60.00 | 29.79 | L1 | 10.8 |
| 20.603500 | --- | 22.65 | 50.00 | 27.35 | L1 | 10.8 |
| 21.659500 | 29.73 | --- | 60.00 | 30.27 | L1 | 10.8 |

| Test Line: | N |
|---|---|




## Final_Result

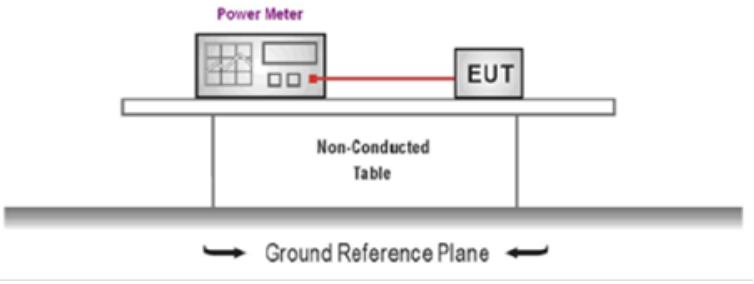
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|---|---|---|---|---|---|---|
| 0.171500 | 39.60 | --- | 64.89 | 25.28 | N | 10.1 |
| 0.211500 | 36.47 | --- | 63.15 | 26.67 | N | 10.1 |
| 0.215500 | --- | 21.28 | 52.99 | 31.71 | N | 10.1 |
| 0.419500 | --- | 28.58 | 47.46 | 18.88 | N | 10.1 |
| 0.435500 | 31.61 | --- | 57.15 | 25.54 | N | 10.1 |
| 0.439500 | 31.64 | --- | 57.07 | 25.43 | N | 10.1 |
| 6.523500 | 31.67 | --- | 60.00 | 28.33 | N | 10.4 |
| 6.539500 | --- | 22.51 | 50.00 | 27.49 | N | 10.4 |
| 6.663500 | --- | 22.32 | 50.00 | 27.68 | N | 10.4 |
| 6.711500 | --- | 22.15 | 50.00 | 27.85 | N | 10.4 |
| 6.771500 | --- | 22.19 | 50.00 | 27.81 | N | 10.4 |
| 20.679500 | 29.35 | --- | 60.00 | 30.65 | N | 10.7 |

## 5.3. Peak Output Power

**LIMIT**

**FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3):** 30dBm

**TEST CONFIGURATION**




**TEST PROCEDURE**

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
4. Record the measurement data.

**TEST MODE:**

Please refer to the clause 4.2

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

**TEST DATA**

Please refer to appendix A on the appendix report

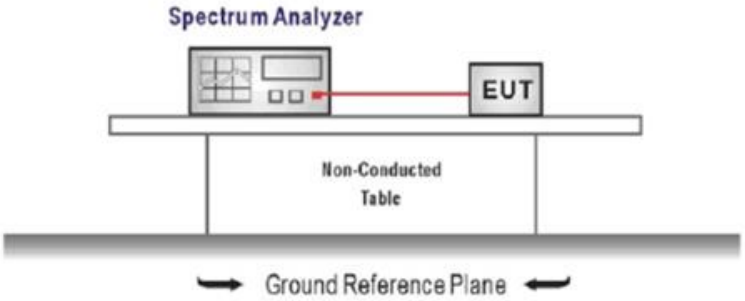
## 5.4. Power Spectral Density

**LIMIT**

**FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)**:

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

**TEST CONFIGURATION**




**TEST PROCEDURE**

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
   Center frequency=DTS channel center frequency
   Span =1.5 times the DTS bandwidth
   RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW
   Sweep time = auto couple
   Detector = peak
   Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

**TEST MODE:**

Please refer to the clause 4.2

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

**TEST DATA**

Please refer to appendix B on the appendix report

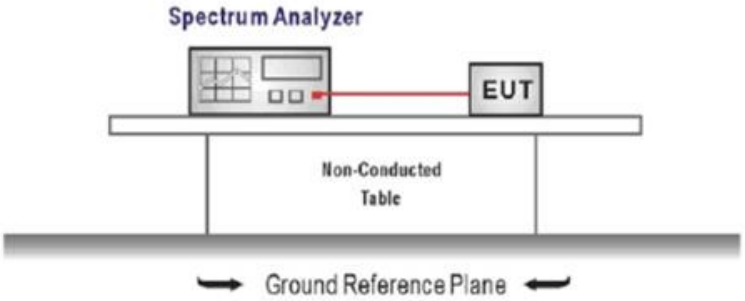
## 5.5. 6dB bandwidth

**LIMIT**

**FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):**

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

**TEST CONFIGURATION**




**TEST PROCEDURE**

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

   Center Frequency =DTS channel center frequency

   Span=2 x DTS bandwidth

   RBW = 100 kHz, VBW ≥ 3 × RBW

   Sweep time= auto couple

   Detector = Peak

   Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

**TEST MODE:**

Please refer to the clause 4.2

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

**TEST DATA**

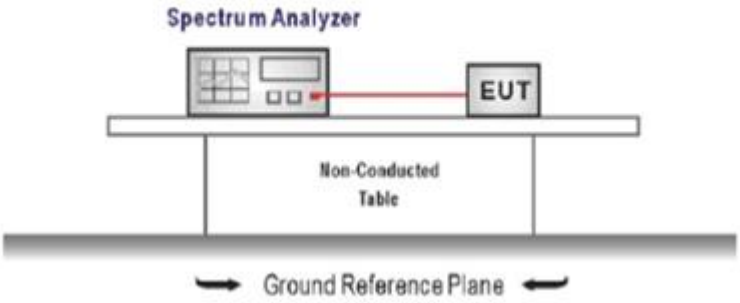
Please refer to appendix C on the appendix report

## 5.6. 99% Occupied Bandwidth

**LIMIT**

N/A

**TEST CONFIGURATION**




**TEST PROCEDURE**

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output andthe spectrum analyzer).
   Center Frequency =channel center frequency
   Span≥1.5 x OBW
   RBW = 1%~5%OBW
   VBW ≥ 3 × RBW
   Sweep time= auto couple
   Detector = Peak
   Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

**TEST MODE:**

Please refer to the clause 4.2

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

**TEST DATA**

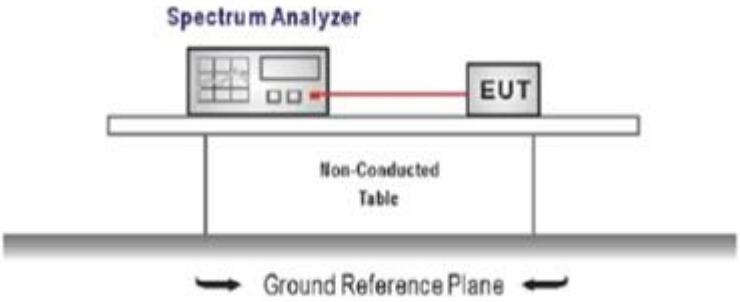
Please refer to appendix D on the appendix report

## 5.7. Duty Cycle

**LIMIT**

N/A

**TEST CONFIGURATION**




**TEST PROCEDURE**

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
   Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW ≥ RBW
   Sweep=as necessary to capture the entire dwell time,
   Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

**TEST MODE:**

Please refer to the clause 4.2

**TEST DATA**

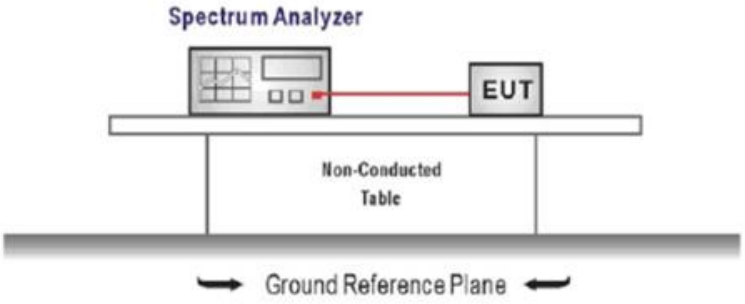
Please refer to appendix E on the appendix report

## 5.8. Conducted Band edge and Spurious Emission

**LIMIT**

**FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):**In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

**TEST CONFIGURATION**




**TEST PROCEDURE**

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
   Center frequency=DTS channel center frequency
   The span = 1.5 times the DTS bandwidth.
   RBW = 100 kHz, VBW ≥ 3 x RBW
   Detector = peak, Sweep time = auto couple, Trace mode = max hold
   Allow trace to fully stabilize
   Use the peak marker function to determine the maximum PSD level

   Note that the channel found to contain the maximum PSD level can be used to establish the reference level.
3. Emission level measurement
   Set the center frequency and span to encompass frequency range to be measured
   RBW = 100 kHz, VBW ≥ 3 x RBW
   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.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

**TEST MODE:**

Please refer to the clause 4.2

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

**TEST DATA**

Please refer to appendix F on the appendix report

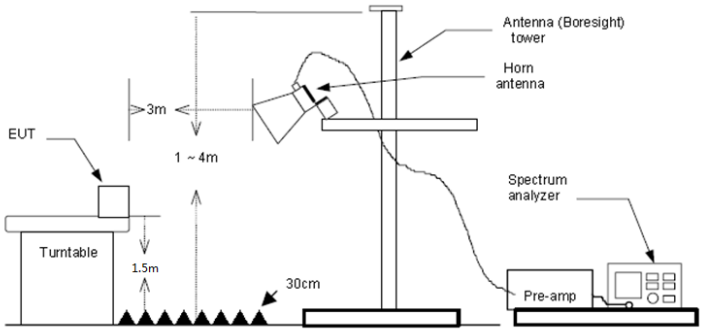
## 5.9. Radiated Band edge Emission

**LIMIT**

**FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

**TEST CONFIGURATION**




**TEST PROCEDURE**

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
   a) Span shall wide enough to fully capture the emission being measured
   b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
   c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

      For average measurement:

      – VBW=10Hz, When duty cycle is no less than 98 percent
      – VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

**TEST MODE:**

Please refer to the clause 4.2

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

Note:

1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
2) Over Limit = Level– Limit
3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).
4) Pre-scan all modulation mode and antenna. 802.11b/g in the report only displays the worst antenna information. The worst antenna is antenna 1.

| Type | 802.11b | Test channel | CH01 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 39.90 | 27.96 | 3.89 | 37.56 | 20.00 | 54.19 | 74.00 | -19.81 | Peak |
| 2 | 2390.01 | 39.87 | 27.72 | 3.99 | 37.45 | 20.00 | 54.13 | 74.00 | -19.87 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 28.89 | 27.96 | 3.89 | 37.56 | 20.00 | 43.18 | 54.00 | -10.82 | Average |
| 2 | 2390.01 | 28.99 | 27.72 | 3.99 | 37.45 | 20.00 | 43.25 | 54.00 | -10.75 | Average |

| Type | 802.11b | Test channel | CH01 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 39.56 | 27.96 | 3.89 | 37.56 | 20.00 | 53.85 | 74.00 | -20.15 | Peak |
| 2 | 2390.01 | 41.28 | 27.72 | 3.99 | 37.45 | 20.00 | 55.54 | 74.00 | -18.46 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 28.97 | 27.96 | 3.89 | 37.56 | 20.00 | 43.26 | 54.00 | -10.74 | Average |
| 2 | 2390.01 | 29.12 | 27.72 | 3.99 | 37.45 | 20.00 | 43.38 | 54.00 | -10.62 | Average |

| Type | 802.11b | Test channel | CH11 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 40.28 | 27.43 | 4.03 | 37.26 | 20.00 | 54.48 | 74.00 | -19.52 | Peak |
| 2 | 2492.77 | 50.04 | 27.41 | 4.04 | 37.26 | 20.00 | 64.23 | 74.00 | -9.77 | Peak |
| 3 | 2500.00 | 39.64 | 27.40 | 4.04 | 37.26 | 20.00 | 53.82 | 74.00 | -20.18 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 28.80 | 27.43 | 4.03 | 37.26 | 20.00 | 43.00 | 54.00 | -11.00 | Average |
| 2 | 2500.00 | 29.27 | 27.40 | 4.04 | 37.26 | 20.00 | 43.45 | 54.00 | -10.55 | Average |

| Type | 802.11b | Test channel | CH11 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 39.91 | 27.43 | 4.03 | 37.26 | 20.00 | 54.11 | 74.00 | -19.89 | Peak |
| 2 | 2493.68 | 46.40 | 27.41 | 4.04 | 37.26 | 20.00 | 60.59 | 74.00 | -13.41 | Peak |
| 3 | 2500.00 | 41.41 | 27.40 | 4.04 | 37.26 | 20.00 | 55.59 | 74.00 | -18.41 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 28.94 | 27.43 | 4.03 | 37.26 | 20.00 | 43.14 | 54.00 | -10.86 | Average |
| 2 | 2500.00 | 29.32 | 27.40 | 4.04 | 37.26 | 20.00 | 43.50 | 54.00 | -10.50 | Average |

| Type | 802.11g | Test channel | CH01 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 40.86 | 27.96 | 3.89 | 37.56 | 20.00 | 55.15 | 74.00 | -18.85 | Peak |
| 2 | 2390.01 | 41.62 | 27.72 | 3.99 | 37.45 | 20.00 | 55.88 | 74.00 | -18.12 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 33.92 | 27.96 | 3.89 | 37.56 | 20.00 | 48.21 | 54.00 | -5.79 | Average |
| 2 | 2390.01 | 35.78 | 27.72 | 3.99 | 37.45 | 20.00 | 50.04 | 54.00 | -3.96 | Average |

| Type | 802.11g | Test channel | CH01 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 40.11 | 27.96 | 3.89 | 37.56 | 20.00 | 54.40 | 74.00 | -19.60 | Peak |
| 2 | 2390.01 | 41.09 | 27.72 | 3.99 | 37.45 | 20.00 | 55.35 | 74.00 | -18.65 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 34.33 | 27.96 | 3.89 | 37.56 | 20.00 | 48.62 | 54.00 | -5.38 | Average |
| 2 | 2390.01 | 34.03 | 27.72 | 3.99 | 37.45 | 20.00 | 48.29 | 54.00 | -5.71 | Average |

| Type | 802.11g | Test channel | CH11 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 39.95 | 27.43 | 4.03 | 37.26 | 20.00 | 54.15 | 74.00 | -19.85 | Peak |
| 2 | 2494.76 | 51.13 | 27.41 | 4.04 | 37.26 | 20.00 | 65.32 | 74.00 | -8.68 | Peak |
| 3 | 2500.00 | 39.55 | 27.40 | 4.04 | 37.26 | 20.00 | 53.73 | 74.00 | -20.27 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 36.66 | 27.43 | 4.03 | 37.26 | 20.00 | 50.86 | 54.00 | -3.14 | Average |
| 2 | 2500.00 | 33.84 | 27.40 | 4.04 | 37.26 | 20.00 | 48.02 | 54.00 | -5.98 | Average |

| Type | 802.11g | Test channel | CH11 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 40.68 | 27.43 | 4.03 | 37.26 | 20.00 | 54.88 | 74.00 | -19.12 | Peak |
| 2 | 2489.74 | 48.63 | 27.42 | 4.04 | 37.26 | 20.00 | 62.83 | 74.00 | -11.17 | Peak |
| 3 | 2500.00 | 40.05 | 27.40 | 4.04 | 37.26 | 20.00 | 54.23 | 74.00 | -19.77 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 34.27 | 27.43 | 4.03 | 37.26 | 20.00 | 48.47 | 54.00 | -5.53 | Average |
| 2 | 2500.00 | 33.52 | 27.40 | 4.04 | 37.26 | 20.00 | 47.70 | 54.00 | -6.30 | Average |

| Type | 802.11n(HT20) | Test channel | CH01 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 40.00 | 27.96 | 3.89 | 37.56 | 20.00 | 54.29 | 74.00 | -19.71 | Peak |
| 2 | 2390.01 | 40.79 | 27.72 | 3.99 | 37.45 | 20.00 | 55.05 | 74.00 | -18.95 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 33.94 | 27.96 | 3.89 | 37.56 | 20.00 | 48.23 | 54.00 | -5.77 | Average |
| 2 | 2390.01 | 33.93 | 27.72 | 3.99 | 37.45 | 20.00 | 48.19 | 54.00 | -5.81 | Average |

| Type | 802.11n(HT20) | Test channel | CH01 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 40.00 | 27.96 | 3.89 | 37.56 | 20.00 | 54.29 | 74.00 | -19.71 | Peak |
| 2 | 2390.01 | 40.78 | 27.72 | 3.99 | 37.45 | 20.00 | 55.04 | 74.00 | -18.96 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 33.87 | 27.96 | 3.89 | 37.56 | 20.00 | 48.16 | 54.00 | -5.84 | Average |
| 2 | 2390.01 | 35.01 | 27.72 | 3.99 | 37.45 | 20.00 | 49.27 | 54.00 | -4.73 | Average |

| Type | 802.11n(HT20) | Test channel | CH11 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 40.09 | 27.43 | 4.03 | 37.26 | 20.00 | 54.29 | 74.00 | -19.71 | Peak |
| 2 | 2500.00 | 41.17 | 27.40 | 4.04 | 37.26 | 20.00 | 55.35 | 74.00 | -18.65 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 33.59 | 27.43 | 4.03 | 37.26 | 20.00 | 47.79 | 54.00 | -6.21 | Average |
| 2 | 2500.00 | 33.45 | 27.40 | 4.04 | 37.26 | 20.00 | 47.63 | 54.00 | -6.37 | Average |

| Type | 802.11n(HT20) | Test channel | CH11 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 40.93 | 27.43 | 4.03 | 37.26 | 20.00 | 55.13 | 74.00 | -18.87 | Peak |
| 2 | 2500.00 | 41.25 | 27.40 | 4.04 | 37.26 | 20.00 | 55.43 | 74.00 | -18.57 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 34.30 | 27.43 | 4.03 | 37.26 | 20.00 | 48.50 | 54.00 | -5.50 | Average |
| 2 | 2500.00 | 34.43 | 27.40 | 4.04 | 37.26 | 20.00 | 48.61 | 54.00 | -5.39 | Average |

| Type | 802.11n(HT40) | Test channel | CH03 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 40.11 | 27.96 | 3.89 | 37.56 | 20.00 | 54.40 | 74.00 | -19.60 | Peak |
| 2 | 2389.99 | 44.32 | 27.72 | 3.99 | 37.45 | 20.00 | 58.58 | 74.00 | -15.42 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 33.48 | 27.96 | 3.89 | 37.56 | 20.00 | 47.77 | 54.00 | -6.23 | Average |
| 2 | 2389.99 | 36.14 | 27.72 | 3.99 | 37.45 | 20.00 | 50.40 | 54.00 | -3.60 | Average |

| Type | 802.11n(HT40) | Test channel | CH03 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 40.57 | 27.96 | 3.89 | 37.56 | 20.00 | 54.86 | 74.00 | -19.14 | Peak |
| 2 | 2389.99 | 44.51 | 27.72 | 3.99 | 37.45 | 20.00 | 58.77 | 74.00 | -15.23 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 34.60 | 27.96 | 3.89 | 37.56 | 20.00 | 48.89 | 54.00 | -5.11 | Average |
| 2 | 2389.99 | 35.08 | 27.72 | 3.99 | 37.45 | 20.00 | 49.34 | 54.00 | -4.66 | Average |

| Type | 802.11n(HT40) | Test channel | CH09 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 43.45 | 27.43 | 4.03 | 37.26 | 20.00 | 57.65 | 74.00 | -16.35 | Peak |
| 2 | 2500.00 | 40.08 | 27.40 | 4.04 | 37.26 | 20.00 | 54.26 | 74.00 | -19.74 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 35.89 | 27.43 | 4.03 | 37.26 | 20.00 | 50.09 | 54.00 | -3.91 | Average |
| 2 | 2500.00 | 33.99 | 27.40 | 4.04 | 37.26 | 20.00 | 48.17 | 54.00 | -5.83 | Average |

| Type | 802.11n(HT40) | Test channel | CH09 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 43.44 | 27.43 | 4.03 | 37.26 | 20.00 | 57.64 | 74.00 | -16.36 | Peak |
| 2 | 2500.00 | 40.40 | 27.40 | 4.04 | 37.26 | 20.00 | 54.58 | 74.00 | -19.42 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 33.75 | 27.43 | 4.03 | 37.26 | 20.00 | 47.95 | 54.00 | -6.05 | Average |
| 2 | 2500.00 | 33.53 | 27.40 | 4.04 | 37.26 | 20.00 | 47.71 | 54.00 | -6.29 | Average |

| Type | 802.11ax(HT20) | Test channel | CH01 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 37.79 | 27.96 | 5.95 | 37.56 | 20.00 | 54.14 | 74.00 | -19.86 | Peak |
| 2 | 2390.01 | 38.93 | 27.72 | 6.19 | 37.45 | 20.00 | 55.39 | 74.00 | -18.61 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 31.98 | 27.96 | 5.95 | 37.56 | 20.00 | 48.33 | 54.00 | -5.67 | Average |
| 2 | 2390.01 | 31.39 | 27.72 | 6.19 | 37.45 | 20.00 | 47.85 | 54.00 | -6.15 | Average |

| Type | 802.11ax(HT20) | Test channel | CH01 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 38.05 | 27.96 | 5.95 | 37.56 | 20.00 | 54.40 | 74.00 | -19.60 | Peak |
| 2 | 2390.01 | 37.28 | 27.72 | 6.19 | 37.45 | 20.00 | 53.74 | 74.00 | -20.26 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 30.71 | 27.96 | 5.95 | 37.56 | 20.00 | 47.06 | 54.00 | -6.94 | Average |
| 2 | 2390.01 | 31.64 | 27.72 | 6.19 | 37.45 | 20.00 | 48.10 | 54.00 | -5.90 | Average |

| Type | 802.11ax(HT20) | Test channel | CH11 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 38.11 | 27.43 | 6.16 | 37.26 | 20.00 | 54.44 | 74.00 | -19.56 | Peak |
| 2 | 2500.00 | 39.19 | 27.40 | 6.15 | 37.26 | 20.00 | 55.48 | 74.00 | -18.52 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 31.30 | 27.43 | 6.16 | 37.26 | 20.00 | 47.63 | 54.00 | -6.37 | Average |
| 2 | 2500.00 | 33.33 | 27.40 | 6.15 | 37.26 | 20.00 | 49.62 | 54.00 | -4.38 | Average |

| Type | 802.11ax(HT20) | Test channel | CH11 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 39.54 | 27.43 | 6.16 | 37.26 | 20.00 | 55.87 | 74.00 | -18.13 | Peak |
| 2 | 2500.00 | 40.74 | 27.40 | 6.15 | 37.26 | 20.00 | 57.03 | 74.00 | -16.97 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 31.03 | 27.43 | 6.16 | 37.26 | 20.00 | 47.36 | 54.00 | -6.64 | Average |
| 2 | 2500.00 | 30.73 | 27.40 | 6.15 | 37.26 | 20.00 | 47.02 | 54.00 | -6.98 | Average |

| Type | 802.11ax(HT40) | Test channel | CH03 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 39.79 | 27.96 | 3.89 | 37.56 | 20.00 | 54.08 | 74.00 | -19.92 | Peak |
| 2 | 2389.99 | 44.43 | 27.72 | 3.99 | 37.45 | 20.00 | 58.69 | 74.00 | -15.31 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 34.77 | 27.96 | 3.89 | 37.56 | 20.00 | 49.06 | 54.00 | -4.94 | Average |
| 2 | 2389.99 | 35.79 | 27.72 | 3.99 | 37.45 | 20.00 | 50.05 | 54.00 | -3.95 | Average |

| Type | 802.11ax(HT40) | Test channel | CH03 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 40.27 | 27.96 | 3.89 | 37.56 | 20.00 | 54.56 | 74.00 | -19.44 | Peak |
| 2 | 2389.99 | 45.17 | 27.72 | 3.99 | 37.45 | 20.00 | 59.43 | 74.00 | -14.57 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2310.00 | 34.86 | 27.96 | 3.89 | 37.56 | 20.00 | 49.15 | 54.00 | -4.85 | Average |
| 2 | 2389.99 | 35.45 | 27.72 | 3.99 | 37.45 | 20.00 | 49.71 | 54.00 | -4.29 | Average |

| Type | 802.11ax(HT40) | Test channel | CH09 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 43.44 | 27.43 | 4.03 | 37.26 | 20.00 | 57.64 | 74.00 | -16.36 | Peak |
| 2 | 2500.00 | 40.51 | 27.40 | 4.04 | 37.26 | 20.00 | 54.69 | 74.00 | -19.31 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 36.62 | 27.43 | 4.03 | 37.26 | 20.00 | 50.82 | 54.00 | -3.18 | Average |
| 2 | 2500.00 | 34.76 | 27.40 | 4.04 | 37.26 | 20.00 | 48.94 | 54.00 | -5.06 | Average |

| Type | 802.11ax(HT40) | Test channel | CH09 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 41.21 | 27.43 | 4.03 | 37.26 | 20.00 | 55.41 | 74.00 | -18.59 | Peak |
| 2 | 2500.00 | 40.90 | 27.40 | 4.04 | 37.26 | 20.00 | 55.08 | 74.00 | -18.92 | Peak |

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2483.49 | 34.29 | 27.43 | 4.03 | 37.26 | 20.00 | 48.49 | 54.00 | -5.51 | Average |
| 2 | 2500.00 | 33.82 | 27.40 | 4.04 | 37.26 | 20.00 | 48.00 | 54.00 | -6.00 | Average |

## 5.10. Radiated Spurious Emission

**LIMIT**

**FCC CFR Title 47 Part 15 Subpart C Section 15.209**

| Frequency | Limit (dBuV/m) | Value |
|---|---|---|
| 0.009 MHz ~0.49 MHz | 2400/F(kHz) @300m | Quasi-peak |
| 0.49 MHz ~ 1.705 MHz | 24000/F(kHz) @30m | Quasi-peak |
| 1.705 MHz ~30 MHz | 30 @30m | Quasi-peak |

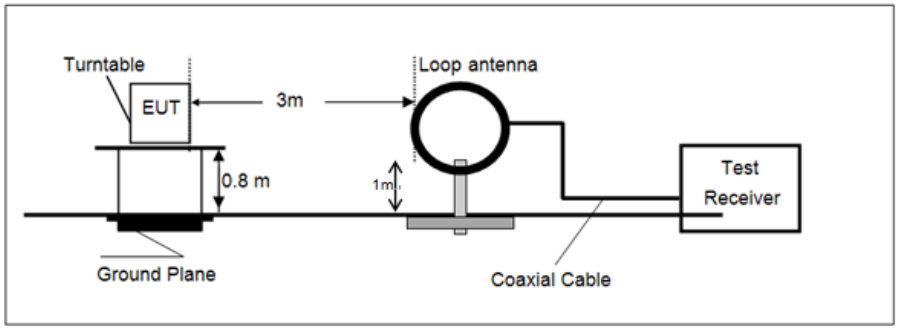
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

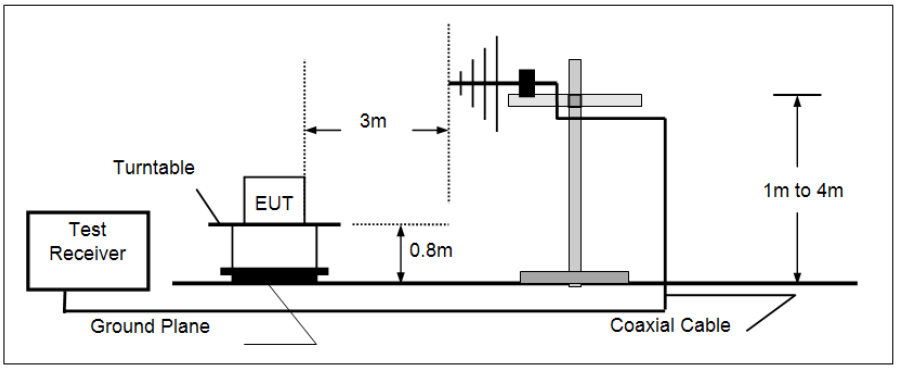
| Frequency | Limit (dBuV/m @3m) | Value |
|---|---|---|
| 30MHz~88MHz | 40.00 | Quasi-peak |
| 88MHz~216MHz | 43.50 | Quasi-peak |
| 216MHz~960MHz | 46.00 | Quasi-peak |
| 960MHz~1GHz | 54.00 | Quasi-peak |
| Above 1GHz | 54.00 | Average |
| | 74.00 | Peak |

**TEST CONFIGURATION**

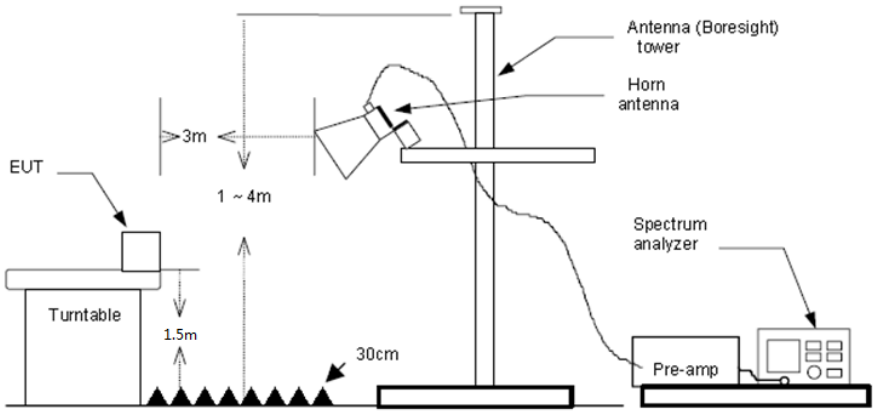
- 9 kHz ~ 30 MHz




- 30 MHz ~ 1 GHz




- Above 1 GHz




**TEST PROCEDURE**

1. The EUT was setup and tested according to ANSI C63.10.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
   a) Span shall wide enough to fully capture the emission being measured;
   b) Below 1 GHz:

      RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

      If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
   c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

      For average measurement:

      – VBW=10Hz, When duty cycle is no less than 98 percent
      – VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

**TEST MODE:**

Please refer to the clause 4.2

**TEST RESULT**

☒ **Passed** ☐ **Not Applicable**

Note:

1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
2) Over Limit = Level– Limit
3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

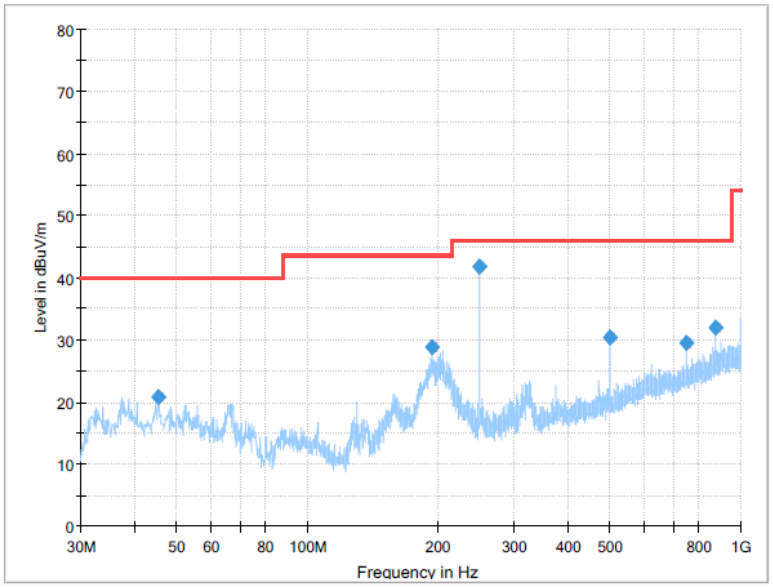
**FOR 9 kHz ~ 30 MHz**

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

**FOR 30 MHz ~ 1000 MHz**

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

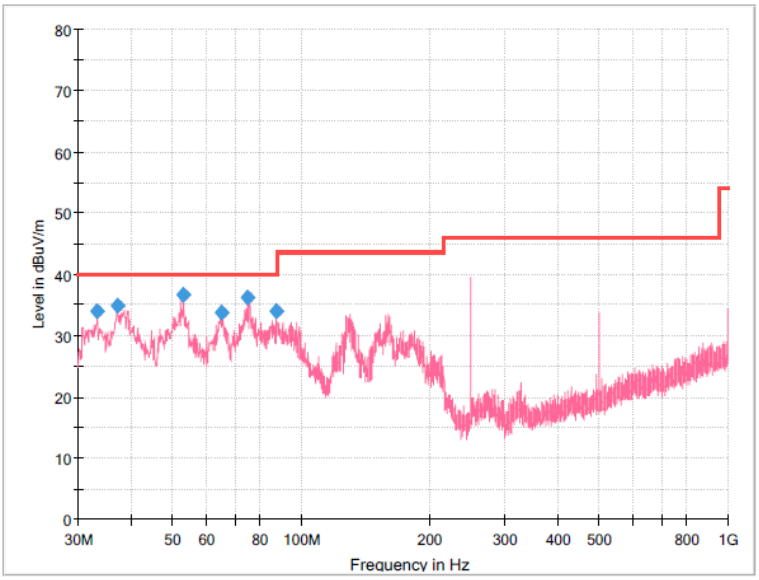
| Polarization: | Horizontal |
|---|---|




**Final_Result**

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| 45.520000 | 20.86 | 40.00 | 19.15 | 300.0 | H | 63.0 | -9.4 |
| 193.930000 | 28.80 | 43.50 | 14.70 | 100.0 | H | 152.0 | -10.9 |
| 249.947500 | 41.68 | 46.00 | 4.32 | 100.0 | H | 97.0 | -9.1 |
| 499.965000 | 30.36 | 46.00 | 15.64 | 100.0 | H | 10.0 | -2.1 |
| 750.103750 | 29.52 | 46.00 | 16.48 | 100.0 | H | 126.0 | 3.2 |
| 874.991250 | 31.89 | 46.00 | 14.11 | 100.0 | H | 82.0 | 5.9 |

| Polarization: | Vertical |
|---|---|




**Final_Result**

| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|
| 33.273750 | 34.06 | 40.00 | 5.94 | 100.0 | V | 311.0 | -11.6 |
| 37.032500 | 34.78 | 40.00 | 5.22 | 100.0 | V | 228.0 | -10.5 |
| 53.158750 | 36.56 | 40.00 | 3.44 | 100.0 | V | 4.0 | -9.4 |
| 65.283750 | 33.67 | 40.00 | 6.33 | 100.0 | V | 0.0 | -11.6 |
| 74.862500 | 36.19 | 40.00 | 3.81 | 100.0 | V | 107.0 | -14.6 |
| 87.472500 | 33.98 | 40.00 | 6.02 | 100.0 | V | 280.0 | -13.4 |

**FOR 1 GHz ~ 25 GHz**

The EUT was pre-scanned all modulation mode and antenna. 802.11b/g in the report only displays the worst antenna information. The worst antenna is antenna 1.

| Type | 802.11b | Test channel | CH01 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2987.92 | 54.17 | 28.70 | 4.61 | 37.47 | 50.01 | 74.00 | -23.99 | Peak |
| 4 | 4821.76 | 44.88 | 31.40 | 5.74 | 35.24 | 46.78 | 74.00 | -27.22 | Peak |

| Type | 802.11b | Test channel | CH01 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 3993.90 | 48.89 | 29.90 | 5.29 | 36.37 | 47.71 | 74.00 | -26.29 | Peak |
| 4 | 4821.76 | 46.32 | 31.40 | 5.74 | 35.24 | 48.22 | 74.00 | -25.78 | Peak |

| Type | 802.11b | Test channel | CH06 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2987.92 | 52.24 | 28.70 | 4.61 | 37.47 | 48.08 | 74.00 | -25.92 | Peak |
| 4 | 4846.37 | 40.50 | 31.40 | 5.78 | 35.17 | 42.51 | 74.00 | -31.49 | Peak |

| Type | 802.11b | Test channel | CH06 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 53.97 | 28.70 | 4.61 | 37.47 | 49.81 | 74.00 | -24.19 | Peak |
| 4 | 4871.10 | 47.15 | 31.40 | 5.82 | 35.16 | 49.21 | 74.00 | -24.79 | Peak |

| Type | 802.11b | Test channel | CH11 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2995.54 | 48.98 | 28.70 | 4.64 | 37.47 | 44.85 | 74.00 | -29.15 | Peak |
| 4 | 4920.96 | 46.43 | 31.44 | 5.85 | 35.21 | 48.51 | 74.00 | -25.49 | Peak |

| Type | 802.11b | Test channel | CH11 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 50.04 | 28.70 | 4.61 | 37.47 | 45.88 | 74.00 | -28.12 | Peak |
| 4 | 4920.96 | 44.98 | 31.44 | 5.85 | 35.21 | 47.06 | 74.00 | -26.94 | Peak |

| Type | 802.11g | Test channel | CH01 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2987.92 | 52.84 | 28.70 | 4.61 | 37.47 | 48.68 | 74.00 | -25.32 | Peak |
| 4 | 4821.76 | 42.61 | 31.40 | 5.74 | 35.24 | 44.51 | 74.00 | -29.49 | Peak |

| Type | 802.11g | Test channel | CH01 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 47.11 | 28.70 | 4.61 | 37.47 | 42.95 | 74.00 | -31.05 | Peak |
| 4 | 4821.76 | 48.49 | 31.40 | 5.74 | 35.24 | 50.39 | 74.00 | -23.61 | Peak |

| Type | 802.11g | Test channel | CH06 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 3003.17 | 53.80 | 28.71 | 4.65 | 37.46 | 49.70 | 74.00 | -24.30 | Peak |
| 4 | 4871.10 | 39.91 | 31.40 | 5.82 | 35.16 | 41.97 | 74.00 | -32.03 | Peak |

| Type | 802.11g | Test channel | CH06 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 54.60 | 28.70 | 4.61 | 37.47 | 50.44 | 74.00 | -23.56 | Peak |
| 4 | 4871.10 | 42.96 | 31.40 | 5.82 | 35.16 | 45.02 | 74.00 | -28.98 | Peak |

| Type | 802.11g | Test channel | CH11 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2995.54 | 49.98 | 28.70 | 4.64 | 37.47 | 45.85 | 74.00 | -28.15 | Peak |
| 4 | 4920.96 | 47.43 | 31.44 | 5.85 | 35.21 | 49.51 | 74.00 | -24.49 | Peak |

| Type | 802.11g | Test channel | CH11 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 52.04 | 28.70 | 4.61 | 37.47 | 47.88 | 74.00 | -26.12 | Peak |
| 4 | 4920.96 | 45.98 | 31.44 | 5.85 | 35.21 | 48.06 | 74.00 | -25.94 | Peak |

| Type | 802.11n(HT20) | Test channel | CH01 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2995.54 | 46.88 | 28.70 | 4.64 | 37.47 | 42.75 | 74.00 | -31.25 | Peak |
| 4 | 9346.26 | 36.93 | 39.29 | 8.25 | 36.49 | 47.98 | 74.00 | -26.02 | Peak |

| Type | 802.11n(HT20) | Test channel | CH01 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 49.29 | 28.70 | 4.61 | 37.47 | 45.13 | 74.00 | -28.87 | Peak |
| 4 | 4846.37 | 42.94 | 31.40 | 5.78 | 35.17 | 44.95 | 74.00 | -29.05 | Peak |

| Type | 802.11n(HT20) | Test channel | CH06 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2995.54 | 51.36 | 28.70 | 4.64 | 37.47 | 47.23 | 74.00 | -26.77 | Peak |
| 4 | 4846.37 | 41.05 | 31.40 | 5.78 | 35.17 | 43.06 | 74.00 | -30.94 | Peak |

| Type | 802.11n(HT20) | Test channel | CH06 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2995.54 | 52.44 | 28.70 | 4.64 | 37.47 | 48.31 | 74.00 | -25.69 | Peak |
| 4 | 4846.37 | 43.39 | 31.40 | 5.78 | 35.17 | 45.40 | 74.00 | -28.60 | Peak |

| Type | 802.11n(HT20) | Test channel | CH11 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2987.92 | 42.82 | 28.70 | 4.61 | 37.47 | 38.66 | 74.00 | -35.34 | Peak |
| 4 | 11457.21 | 35.64 | 40.77 | 9.43 | 36.40 | 49.44 | 74.00 | -24.56 | Peak |

| Type | 802.11n(HT20) | Test channel | CH11 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 52.29 | 28.70 | 4.61 | 37.47 | 48.13 | 74.00 | -25.87 | Peak |
| 4 | 9909.80 | 36.93 | 39.52 | 8.65 | 37.10 | 48.00 | 74.00 | -26.00 | Peak |

| Type | 802.11n(HT40) | Test channel | CH03 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 3128.01 | 46.31 | 29.00 | 4.57 | 37.29 | 42.59 | 74.00 | -31.41 | Peak |
| 4 | 9134.58 | 37.50 | 38.54 | 8.43 | 36.03 | 48.44 | 74.00 | -25.56 | Peak |

| Type | 802.11n(HT40) | Test channel | CH03 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 53.74 | 28.70 | 4.61 | 37.47 | 49.58 | 74.00 | -24.42 | Peak |
| 4 | 4846.37 | 42.73 | 31.40 | 5.78 | 35.17 | 44.74 | 74.00 | -29.26 | Peak |

| Type | 802.11n(HT40) | Test channel | CH06 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2987.92 | 43.82 | 28.70 | 4.61 | 37.47 | 39.66 | 74.00 | -34.34 | Peak |
| 4 | 8104.56 | 36.23 | 37.18 | 7.67 | 33.33 | 47.75 | 74.00 | -26.25 | Peak |

| Type | 802.11n(HT40) | Test channel | CH06 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 47.90 | 28.70 | 4.61 | 37.47 | 43.74 | 74.00 | -30.26 | Peak |
| 4 | 4846.37 | 42.60 | 31.40 | 5.78 | 35.17 | 44.61 | 74.00 | -29.39 | Peak |

| Type | 802.11n(HT40) | Test channel | CH09 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 3128.01 | 46.18 | 29.00 | 4.57 | 37.29 | 42.46 | 74.00 | -31.54 | Peak |
| 4 | 3249.76 | 45.38 | 28.70 | 4.68 | 36.87 | 41.89 | 74.00 | -32.11 | Peak |

| Type | 802.11n(HT40) | Test channel | CH09 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2995.54 | 54.30 | 28.70 | 4.64 | 37.47 | 50.17 | 74.00 | -23.83 | Peak |
| 4 | 4846.37 | 40.00 | 31.40 | 5.78 | 35.17 | 42.01 | 74.00 | -31.99 | Peak |

| Type | 802.11ax(HT20) | Test channel | CH01 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2995.54 | 46.29 | 28.70 | 4.64 | 37.47 | 42.16 | 74.00 | -31.84 | Peak |
| 4 | 8022.46 | 35.46 | 37.14 | 7.62 | 33.31 | 46.91 | 74.00 | -27.09 | Peak |

| Type | 802.11ax(HT20) | Test channel | CH01 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2987.92 | 49.92 | 28.70 | 4.61 | 37.47 | 45.76 | 74.00 | -28.24 | Peak |
| 4 | 4846.37 | 43.54 | 31.40 | 5.78 | 35.17 | 45.55 | 74.00 | -28.45 | Peak |

| Type | 802.11ax(HT20) | Test channel | CH06 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 3128.01 | 47.15 | 29.00 | 4.57 | 37.29 | 43.43 | 74.00 | -30.57 | Peak |
| 4 | 7981.72 | 36.10 | 37.03 | 7.60 | 33.31 | 47.42 | 74.00 | -26.58 | Peak |

| Type | 802.11ax(HT20) | Test channel | CH06 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 3249.76 | 44.44 | 28.70 | 4.68 | 36.87 | 40.95 | 74.00 | -33.05 | Peak |
| 4 | 5151.68 | 40.83 | 31.99 | 5.97 | 35.44 | 43.35 | 74.00 | -30.65 | Peak |

| Type | 802.11ax(HT20) | Test channel | CH11 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 3128.01 | 43.07 | 29.00 | 4.57 | 37.29 | 39.35 | 74.00 | -34.65 | Peak |
| 4 | 9346.26 | 36.93 | 39.29 | 8.25 | 36.49 | 47.98 | 74.00 | -26.02 | Peak |

| Type | 802.11ax(HT20) | Test channel | CH11 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 3128.01 | 48.56 | 29.00 | 4.57 | 37.29 | 44.84 | 74.00 | -29.16 | Peak |
| 4 | 7941.19 | 37.32 | 36.88 | 7.57 | 33.32 | 48.45 | 74.00 | -25.55 | Peak |

| Type | 802.11ax(HT40) | Test channel | CH03 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2987.92 | 53.84 | 28.70 | 4.61 | 37.47 | 49.68 | 74.00 | -24.32 | Peak |
| 4 | 8063.40 | 35.59 | 37.20 | 7.65 | 33.32 | 47.12 | 74.00 | -26.88 | Peak |

| Type | 802.11ax(HT40) | Test channel | CH03 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 2995.54 | 51.89 | 28.70 | 4.64 | 37.47 | 47.76 | 74.00 | -26.24 | Peak |
| 4 | 4846.37 | 43.59 | 31.40 | 5.78 | 35.17 | 45.60 | 74.00 | -28.40 | Peak |

| Type | 802.11ax(HT40) | Test channel | CH06 | Polarity | Horizontal |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2987.92 | 49.82 | 28.70 | 4.61 | 37.47 | 45.66 | 74.00 | -28.34 | Peak |
| 4 | 8104.56 | 37.23 | 37.18 | 7.67 | 33.33 | 48.75 | 74.00 | -25.25 | Peak |

| Type | 802.11ax(HT40) | Test channel | CH06 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 3128.01 | 43.79 | 29.00 | 4.57 | 37.29 | 40.07 | 74.00 | -33.93 | Peak |
| 4 | 8042.90 | 36.13 | 37.19 | 7.64 | 33.31 | 47.65 | 74.00 | -26.35 | Peak |

| Type | 802.11ax(HT40) | Test channel | CH09 | Polarity | Horizontal |
|---|---|---|---|---|---|

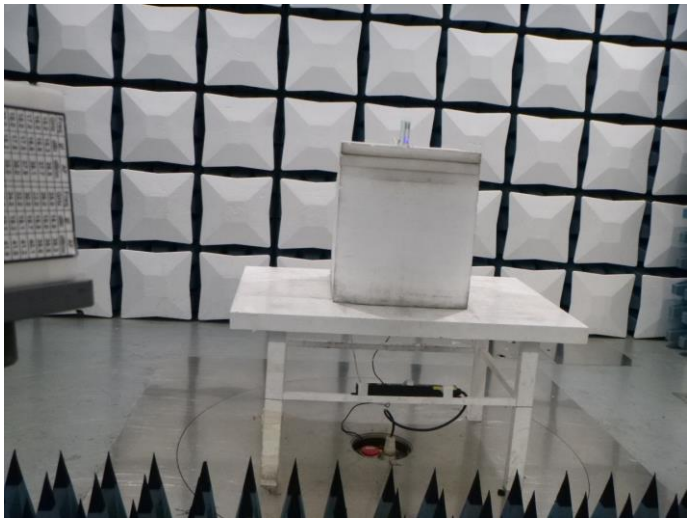
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1330.61 | 52.12 | 26.19 | 2.91 | 36.37 | 44.85 | 74.00 | -29.15 | Peak |
| 2 | 2658.51 | 50.46 | 27.75 | 4.24 | 37.01 | 45.44 | 74.00 | -28.56 | Peak |
| 3 | 2987.92 | 45.14 | 28.70 | 4.61 | 37.47 | 40.98 | 74.00 | -33.02 | Peak |
| 4 | 7981.72 | 36.20 | 37.03 | 7.60 | 33.31 | 47.52 | 74.00 | -26.48 | Peak |

| Type | 802.11ax(HT40) | Test channel | CH09 | Polarity | Vertical |
|---|---|---|---|---|---|

| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1327.69 | 54.64 | 26.17 | 2.90 | 36.37 | 47.34 | 74.00 | -26.66 | Peak |
| 2 | 2127.07 | 53.24 | 27.43 | 3.71 | 37.31 | 47.07 | 74.00 | -26.93 | Peak |
| 3 | 3128.01 | 46.18 | 29.00 | 4.57 | 37.29 | 42.46 | 74.00 | -31.54 | Peak |
| 4 | 9759.59 | 36.40 | 39.60 | 8.44 | 36.29 | 48.15 | 74.00 | -25.85 | Peak |

# 6. TEST SETUP PHOTOS

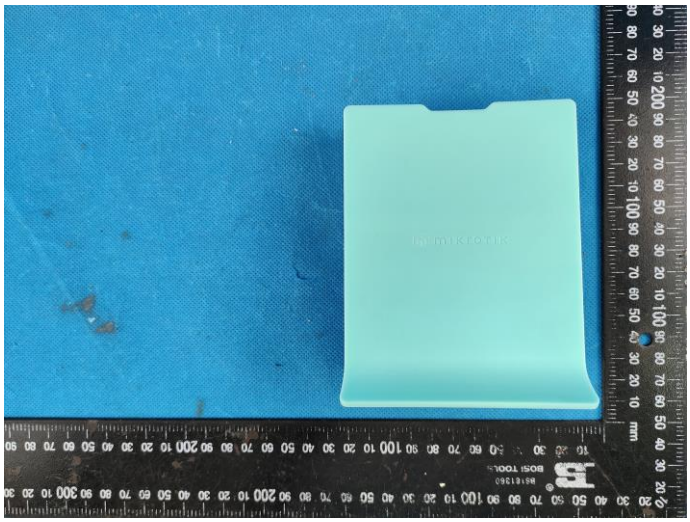
Radiated Emission

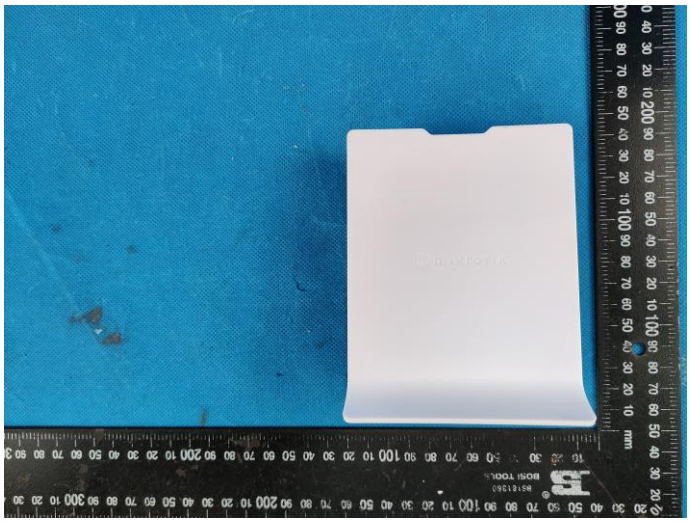



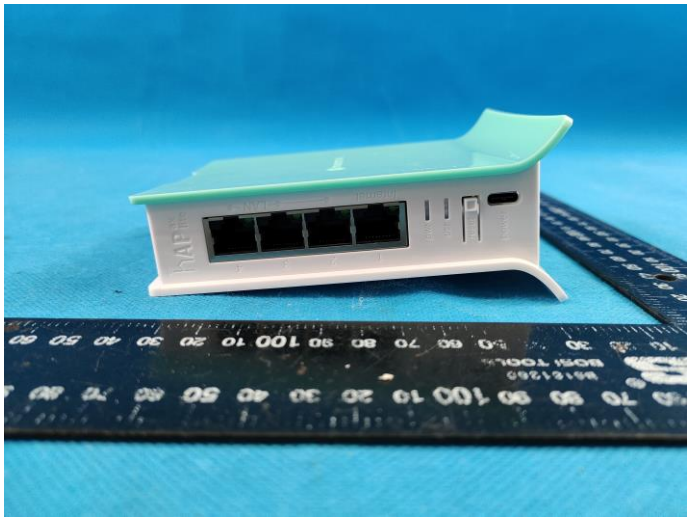
AC Conducted Emission

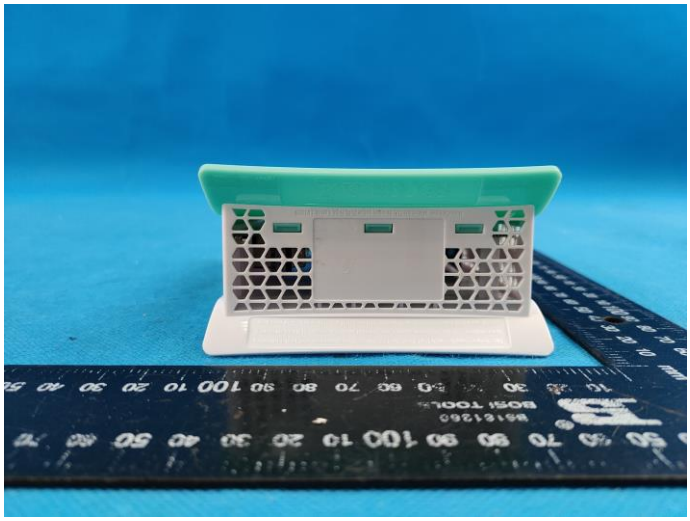
# 7. EXTERNAL AND INTERNAL PHOTOS

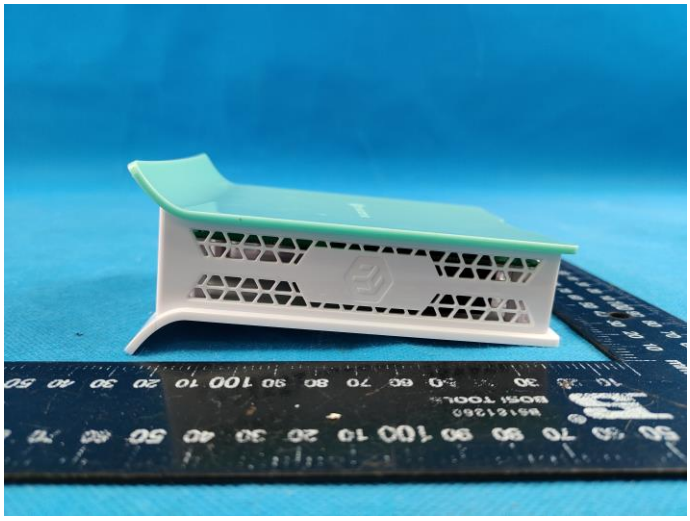
**External Photos**

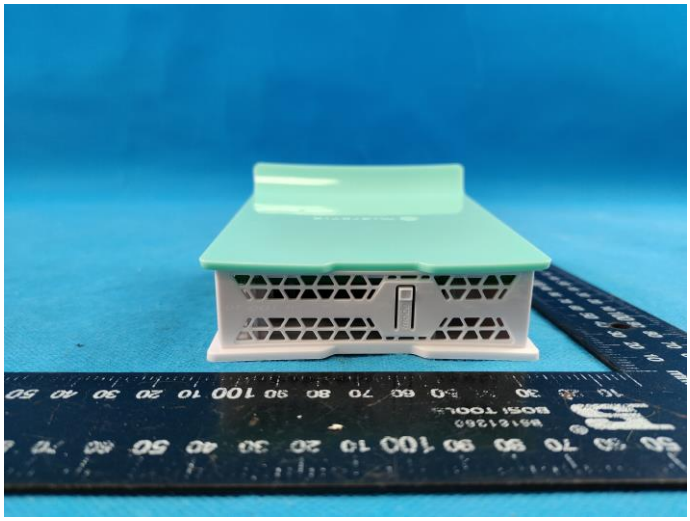




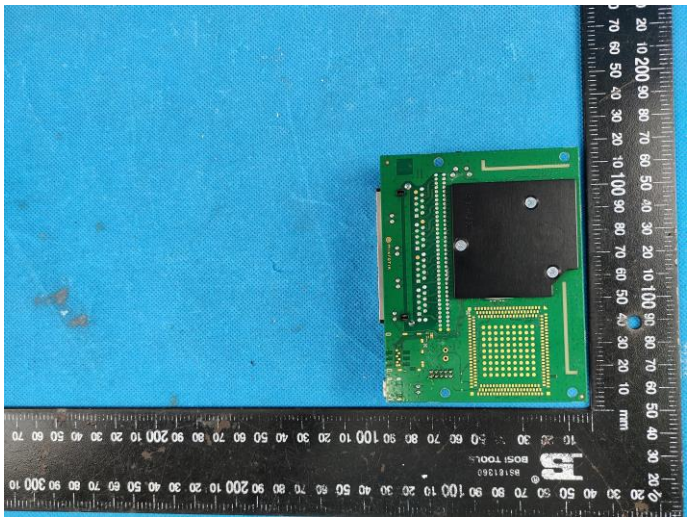


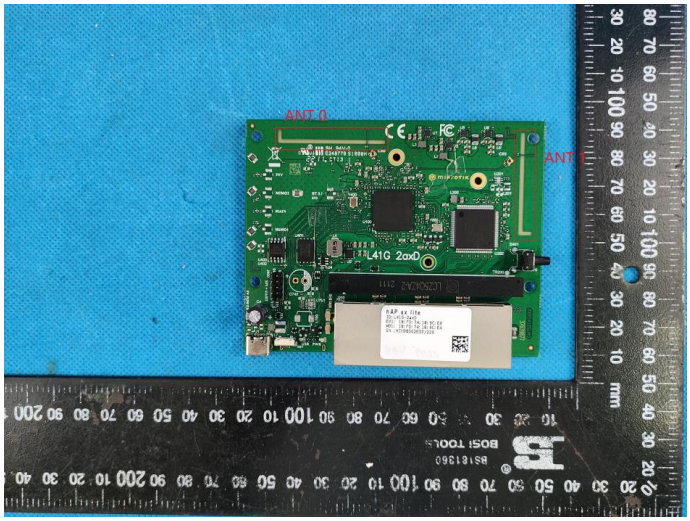


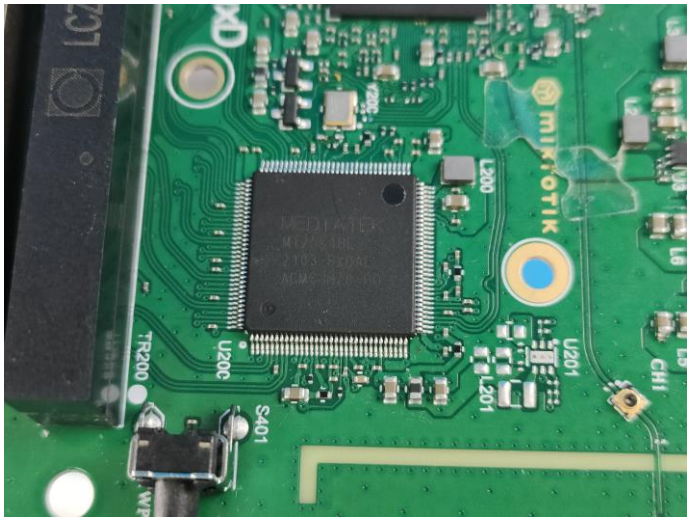




**Internal Photos**






## 8 . APPENDIX REPORT