



TEST Report

Applicant: Shenzhen TwoTrees Technology Co., Ltd.

Address of Applicant: Room 402, Building 11, No.9 Qilin Road, Nankeng Community
Bantian Street, Longgang District, Shenzhen, Guangdong,
China

Manufacturer : Shenzhen TwoTrees Technology Co., Ltd.

**Address of
Manufacturer :** Room 402, Building 11, No.9 Qilin Road, Nankeng Community
Bantian Street, Longgang District, Shenzhen, Guangdong,
China

Equipment Under Test (EUT)

Product Name: CNC Cutter And Engraver

Model No.: TTC-H40

Series model: TTC-H40 500W, TTC-H40 800W, TTC-H40 20W, TTC-H80,
TTC-H80 500W, TTC-H80 800W, TTC-H80 20W

Trade Mark: N/A

FCC ID: 2A7F8-TTC-H40

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: Apr. 10, 2025

Date of Test: Apr. 10, 2025 ~ Apr. 25, 2025

Date of report issued: Apr. 25, 2025

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.



Report No.: HTT202504205F01

1. Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Apr. 25, 2025 | Original |
| | | |
| | | |
| | | |
| | | |

Tested/ Prepared By Heber He Date: Apr. 25, 2025
Project Engineer

Check By: Bruce Zhu Date: Apr. 25, 2025
Reviewer

Approved By : Kevin Yang Date: Apr. 25, 2025
Authorized Signature





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3. Test Summary

| Test Item | Section | Result |
|----------------------------------|----------------------------|--------|
| Antenna requirement | FCC part 15.203/15.247 (c) | Pass |
| AC Power Line Conducted Emission | FCC part 15.207 | Pass |
| Conducted Peak Output Power | FCC part 15.247 (b)(3) | Pass |
| 6dB Bandwidth | FCC part 15.247 (a)(2) | Pass |
| Power Spectral Density | FCC part 15.247 (e) | Pass |
| Band Edge | FCC part 15.247(d) | Pass |
| Spurious Emission | FCC part 15.205/15.209 | Pass |

Remark: Test according to ANSI C63.10:2013 and RSS-Gen

Pass: The EUT complies with the essential requirements in the standard.

Measurement Uncertainty

| Test Item | Frequency Range | Measurement Uncertainty | Notes |
|-----------------------|-----------------|-------------------------|-------|
| Radiated Emission | 9KHz~30MHz | 3.12 dB | (1) |
| Radiated Emission | 30~1000MHz | 4.37 dB | (1) |
| Radiated Emission | 1~18GHz | 5.40 dB | (1) |
| Radiated Emission | 18-40GHz | 5.45 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 2.68 dB | (1) |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



4. General Information

4.1. General Description of EUT

| | |
|------------------------|---|
| Product Name: | CNC Cutter And Engraver |
| Model No.: | TTC-H40 |
| Series model: | TTC-H40 500W, TTC-H40 800W, TTC-H40 20W, TTC-H80, TTC-H80 500W, TTC-H80 800W, TTC-H80 20W |
| Test sample(s) ID: | HTT202504205-1(Engineer sample) HTT202504205-2(Normal sample) |
| Channel numbers: | 802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40):7 |
| Channel separation: | 5MHz |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM) |
| Antenna Type: | Glue stick antenna |
| Antenna gain: | 2.50 dBi |
| Power supply: | AC 110-230V |



| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test channel | Frequency (MHz) | |
|-----------------|-------------------------------|---------------|
| | 802.11b/802.11g/802.11n(HT20) | 802.11n(HT40) |
| Lowest channel | 2412MHz | 2422MHz |
| Middle channel | 2437MHz | 2437MHz |
| Highest channel | 2462MHz | 2452MHz |



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4.2. Test mode

| | |
|---|--|
| Transmitting mode | Keep the EUT in continuously transmitting mode |
| <i>Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i> | |

| | | | | |
|--|---------|---------|---------------|---------------|
| We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows: | | | | |
| Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case. | | | | |
| Mode | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) |
| Data rate | 1Mbps | 6Mbps | 6.5Mbps | 13Mbps |

4.3. Description of Support Units

| |
|-------|
| None. |
|-------|

4.4. Deviation from Standards

| |
|-------|
| None. |
|-------|

4.5. Abnormalities from Standard Conditions

| |
|-------|
| None. |
|-------|

4.6. Test Facility

| |
|--|
| The test facility is recognized, certified, or accredited by the following organizations: FCC-Registration No.: 779513 Designation Number: CN1319 Shenzhen HTT Technology Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements. A2LA-Lab Cert. No.: 6435.01 Shenzhen HTT Technology Co.,Ltd. has been accredited by American Association for Laboratory Accreditation to perform electromagnetic emission measurement. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010. |
|--|

4.7. Test Location

| |
|--|
| All tests were performed at: |
| Shenzhen HTT Technology Co.,Ltd. 1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-23595200 Fax: 0755-23595201 |

4.8. Additional Instructions

| | |
|-------------------|---|
| Test Software | Special AT test command provided by manufacturer to Keep the EUT in continuously transmitting mode and hopping mode |
| Power level setup | Default |

5. Test Instruments list

| Item | Test Equipment | Manufacturer | Model No. | Inventory | Cal.Date | Cal.Due date |
|------|----------------|--------------|-----------|-----------|----------|--------------|
|------|----------------|--------------|-----------|-----------|----------|--------------|

Shenzhen HTT Technology Co.,Ltd. Tel: 0755-23595200 Fax: 0755-23595201
1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

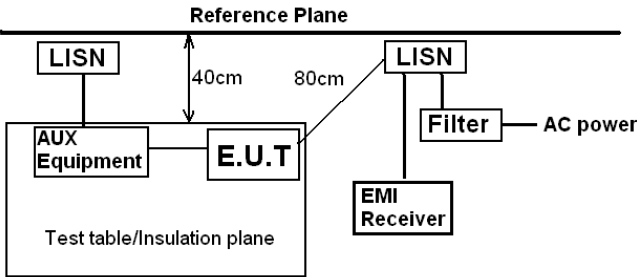


Report No.: HTT202504205F01

| | | | | No. | (mm-dd-yy) | (mm-dd-yy) |
|----|----------------------------------|-------------------------------------|--------------------|----------|--------------|--------------|
| 1 | 3m Semi- Anechoic Chamber | Shenzhen C.R.T technology co., LTD | 9*6*6 | HTT-E028 | Aug. 10 2024 | Aug. 09 2027 |
| 2 | Control Room | Shenzhen C.R.T technology co., LTD | 4.8*3.5*3.0 | HTT-E030 | Aug. 10 2024 | Aug. 09 2027 |
| 3 | EMI Test Receiver | Rohde&Schwar | ESCI7 | HTT-E022 | Apr. 26 2024 | Apr. 25 2025 |
| 4 | Spectrum Analyzer | Rohde&Schwar | FSP | HTT-E037 | Apr. 26 2024 | Apr. 25 2025 |
| 5 | Coaxial Cable | ZDecl | ZT26-NJ-NJ-0.6M | HTT-E018 | Apr. 26 2024 | Apr. 25 2025 |
| 6 | Coaxial Cable | ZDecl | ZT26-NJ-SMAJ-2M | HTT-E019 | Apr. 26 2024 | Apr. 25 2025 |
| 7 | Coaxial Cable | ZDecl | ZT26-NJ-SMAJ-0.6M | HTT-E020 | Apr. 26 2024 | Apr. 25 2025 |
| 8 | Coaxial Cable | ZDecl | ZT26-NJ-SMAJ-8.5M | HTT-E021 | Apr. 26 2024 | Apr. 25 2025 |
| 9 | Composite logarithmic antenna | Schwarzbeck | VULB 9168 | HTT-E017 | May. 21 2024 | May. 20 2025 |
| 10 | Horn Antenna | Schwarzbeck | BBHA9120D | HTT-E016 | May. 20 2024 | May. 19 2025 |
| 11 | Loop Antenna | Zhinan | ZN30900C | HTT-E039 | Apr. 26 2024 | Apr. 25 2025 |
| 12 | Horn Antenna | Beijing Hangwei Dayang | OBH100400 | HTT-E040 | Apr. 26 2024 | Apr. 25 2025 |
| 13 | low frequency Amplifier | Sonoma Instrument | 310 | HTT-E015 | Apr. 26 2024 | Apr. 25 2025 |
| 14 | high-frequency Amplifier | HP | 8449B | HTT-E014 | Apr. 26 2024 | Apr. 25 2025 |
| 15 | Variable frequency power supply | Shenzhen Anbiao Instrument Co., Ltd | ANB-10VA | HTT-082 | Apr. 26 2024 | Apr. 25 2025 |
| 16 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | HTT-E004 | Apr. 26 2024 | Apr. 25 2025 |
| 17 | Artificial Mains | Rohde & Schwarz | ESH3-Z5 | HTT-E006 | May. 23 2024 | May. 22 2025 |
| 18 | Artificial Mains | Rohde & Schwarz | ENV-216 | HTT-E038 | May. 23 2024 | May. 22 2025 |
| 19 | Cable Line | Robinson | Z302S-NJ-BNCJ-1.5M | HTT-E001 | Apr. 26 2024 | Apr. 25 2025 |
| 20 | Attenuator | Robinson | 6810.17A | HTT-E007 | Apr. 26 2024 | Apr. 25 2025 |
| 21 | Variable frequency power supply | Shenzhen Yanghong Electric Co., Ltd | YF-650 (5KVA) | HTT-E032 | Apr. 26 2024 | Apr. 25 2025 |
| 22 | Control Room | Shenzhen C.R.T technology co., LTD | 8*4*3.5 | HTT-E029 | Aug. 10 2024 | Aug. 09 2027 |
| 23 | DC power supply | Agilent | E3632A | HTT-E023 | Apr. 26 2024 | Apr. 25 2025 |
| 24 | EMI Test Receiver | Agilent | N9020A | HTT-E024 | Apr. 26 2024 | Apr. 25 2025 |
| 25 | Analog signal generator | Agilent | N5181A | HTT-E025 | Apr. 26 2024 | Apr. 25 2025 |
| 26 | Vector signal generator | Agilent | N5182A | HTT-E026 | Apr. 26 2024 | Apr. 25 2025 |
| 27 | Power sensor | Keysight | U2021XA | HTT-E027 | Apr. 26 2024 | Apr. 25 2025 |
| 28 | Temperature and humidity meter | Shenzhen Anbiao Instrument Co., Ltd | TH10R | HTT-074 | Apr. 28 2024 | Apr. 27 2025 |
| 29 | Radiated Emission Test Software | Farad | EZ-EMC | N/A | N/A | N/A |
| 30 | Conducted Emission Test Software | Farad | EZ-EMC | N/A | N/A | N/A |
| 31 | RF Test Software | panshanrf | TST | N/A | N/A | N/A |

6. Test results and Measurement Data

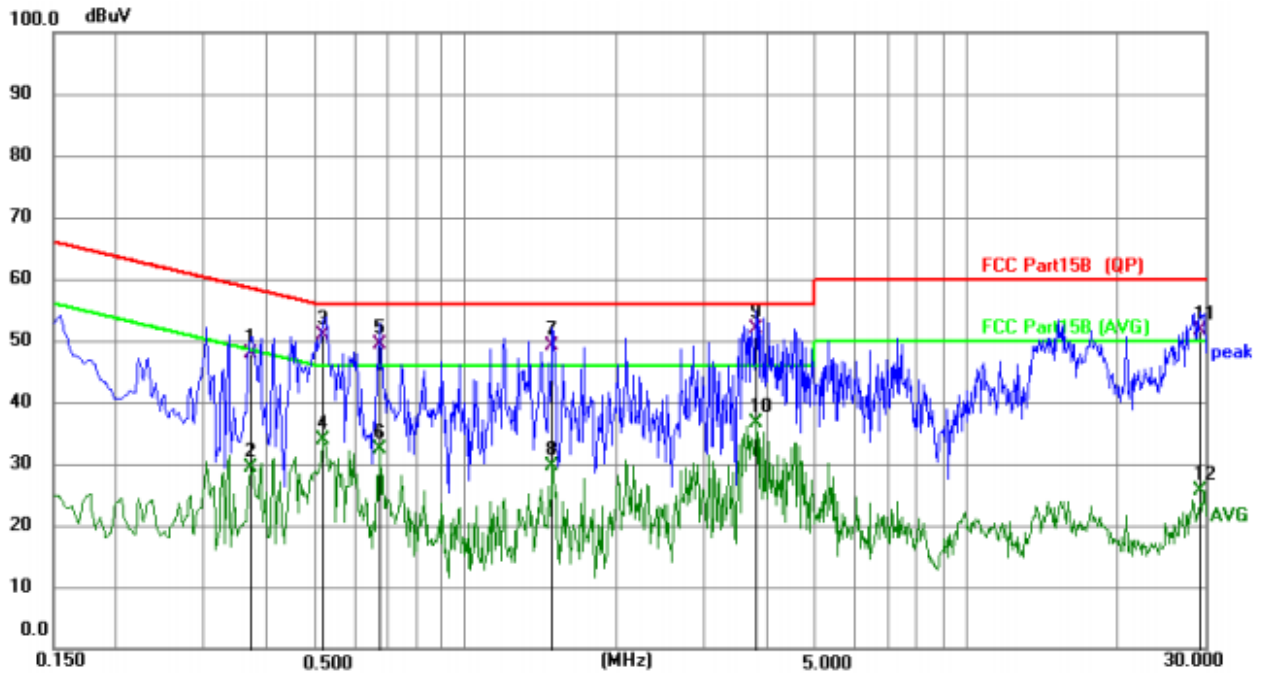
6.1. Conducted Emissions

| | | | | | | | |
|--|--|-------|--------------|-----|-----------|----------|--|
| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | |
| Test Method: | ANSI C63.10:2013 | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | |
| Class / Severity: | Class B | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto | | | | | | |
| Limit: | 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 setup: | <div><p style="text-align: center;">Reference Plane</p><p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div> | | | | | | |
| Test procedure: | <div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</div></div> | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar | |
| Test voltage: | AC 120V, 60Hz | | | | | | |
| Test results: | PASS | | | | | | |

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

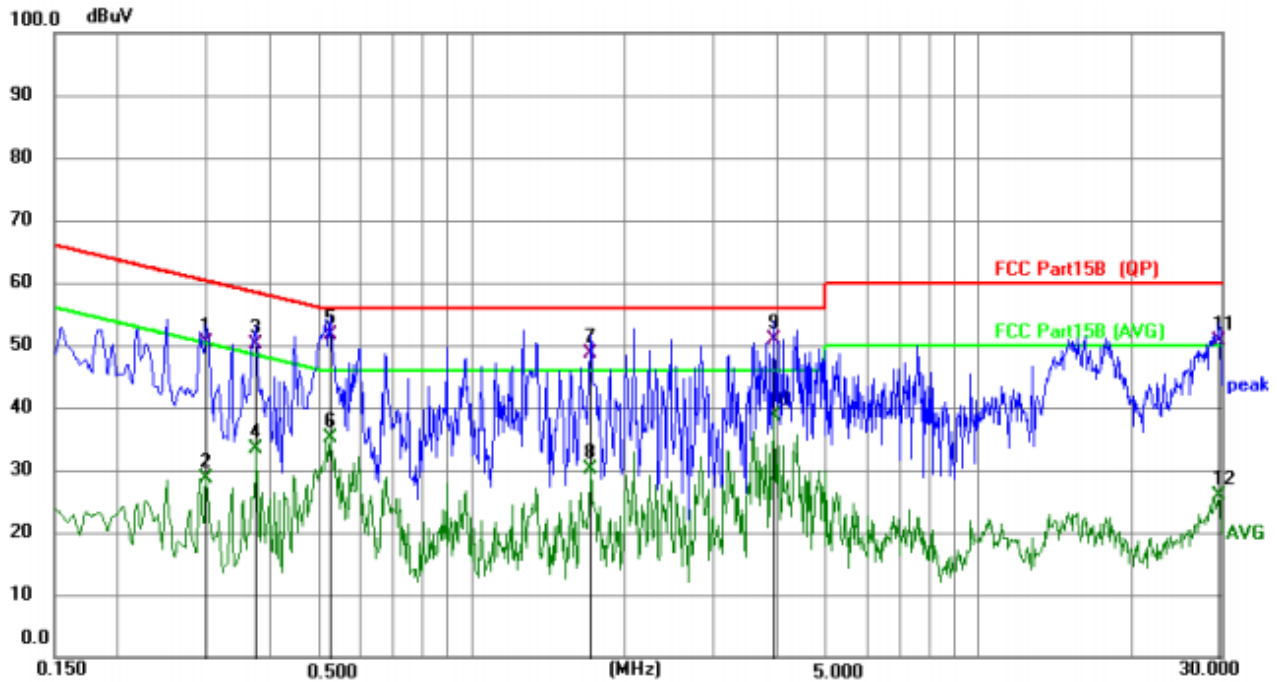
Measurement data:

Line:



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|
| | | MHz | Level | Factor | ment | | | Detector |
| 1 | | 0.3704 | 37.81 | 10.10 | 47.91 | 58.49 | -10.58 | QP |
| 2 | | 0.3704 | 19.18 | 10.10 | 29.28 | 48.49 | -19.21 | AVG |
| 3 | | 0.5190 | 40.72 | 10.11 | 50.83 | 56.00 | -5.17 | QP |
| 4 | | 0.5190 | 23.78 | 10.11 | 33.89 | 46.00 | -12.11 | AVG |
| 5 | | 0.6720 | 39.22 | 10.22 | 49.44 | 56.00 | -6.56 | QP |
| 6 | | 0.6720 | 22.25 | 10.22 | 32.47 | 46.00 | -13.53 | AVG |
| 7 | | 1.4910 | 38.85 | 10.21 | 49.06 | 56.00 | -6.94 | QP |
| 8 | | 1.4910 | 19.51 | 10.21 | 29.72 | 46.00 | -16.28 | AVG |
| 9 | * | 3.8130 | 41.77 | 10.20 | 51.97 | 56.00 | -4.03 | QP |
| 10 | | 3.8130 | 26.43 | 10.20 | 36.63 | 46.00 | -9.37 | AVG |
| 11 | | 29.3010 | 40.04 | 11.65 | 51.69 | 60.00 | -8.31 | QP |
| 12 | | 29.3010 | 13.92 | 11.65 | 25.57 | 50.00 | -24.43 | AVG |

Neutral:



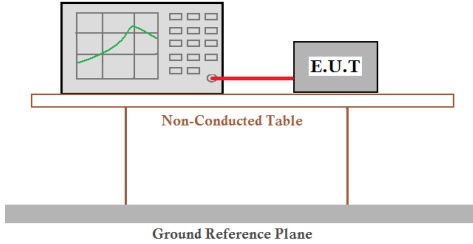
| No. | Mk. | Freq. MHz | Reading Level dB | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector |
|-----|-----|--------------|------------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1 | | 0.2983 | 40.25 | 10.21 | 50.46 | 60.29 | -9.83 | QP |
| 2 | | 0.2983 | 18.31 | 10.21 | 28.52 | 50.29 | -21.77 | AVG |
| 3 | | 0.3750 | 39.95 | 10.15 | 50.10 | 58.39 | -8.29 | QP |
| 4 | | 0.3750 | 23.34 | 10.15 | 33.49 | 48.39 | -14.90 | AVG |
| 5 | * | 0.5231 | 41.42 | 10.14 | 51.56 | 56.00 | -4.44 | QP |
| 6 | | 0.5231 | 25.01 | 10.14 | 35.15 | 46.00 | -10.85 | AVG |
| 7 | | 1.7160 | 38.37 | 10.22 | 48.59 | 56.00 | -7.41 | QP |
| 8 | | 1.7160 | 19.97 | 10.22 | 30.19 | 46.00 | -15.81 | AVG |
| 9 | | 3.9525 | 40.70 | 10.20 | 50.90 | 56.00 | -5.10 | QP |
| 10 | | 3.9525 | 28.50 | 10.20 | 38.70 | 46.00 | -7.30 | AVG |
| 11 | | 29.7690 | 38.94 | 11.68 | 50.62 | 60.00 | -9.38 | QP |
| 12 | | 29.7690 | 14.12 | 11.68 | 25.80 | 50.00 | -24.20 | AVG |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Los



6.2. Conducted Peak Output Power

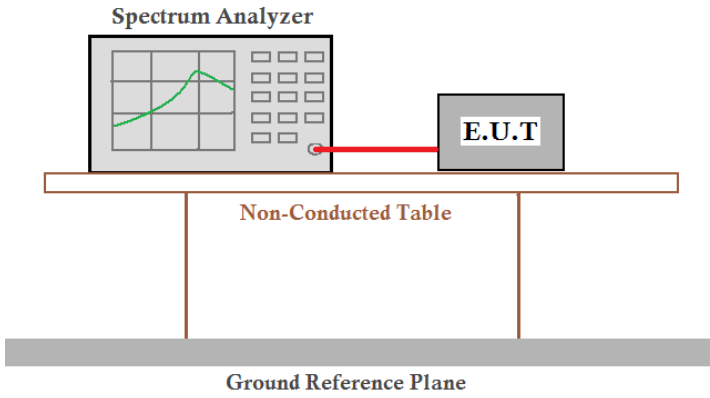
| | | | | | | |
|-------------------|---|-------|---------|-----|---------|----------|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) | | | | | |
| Test Method: | KDB558074 D01 15.247 Meas Guidance v05r02 | | | | | |
| Limit: | 30dBm | | | | | |
| Test setup: | <p>Power sensor and Spectrum analyzer</p>  <p>Non-Conducted Table</p> <p>Ground Reference Plane</p> | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test results: | Pass | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |

Measurement Data

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|----------------|---------|-----------------|---|-------|---------|
| | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | 18.85 | <=30 | Pass |
| | | 2437 | 18.60 | <=30 | Pass |
| | | 2462 | 14.53 | <=30 | Pass |
| 802.11g | SISO | 2412 | 23.48 | <=30 | Pass |
| | | 2437 | 23.13 | <=30 | Pass |
| | | 2462 | 19.58 | <=30 | Pass |
| 802.11n (HT20) | SISO | 2412 | 22.39 | <=30 | Pass |
| | | 2437 | 22.08 | <=30 | Pass |
| | | 2462 | 18.16 | <=30 | Pass |
| 802.11n (HT40) | SISO | 2422 | 21.82 | <=30 | Pass |
| | | 2437 | 20.45 | <=30 | Pass |
| | | 2452 | 18.89 | <=30 | Pass |



6.3. Channel Bandwidth

| | | | | | | |
|-------------------|--|-------|---------|-----|---------|----------|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) | | | | | |
| Test Method: | KDB558074 D01 15.247 Meas Guidance v05r02 | | | | | |
| Limit: | >500KHz | | | | | |
| Test setup: |  | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test results: | Pass | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |

Measurement Data

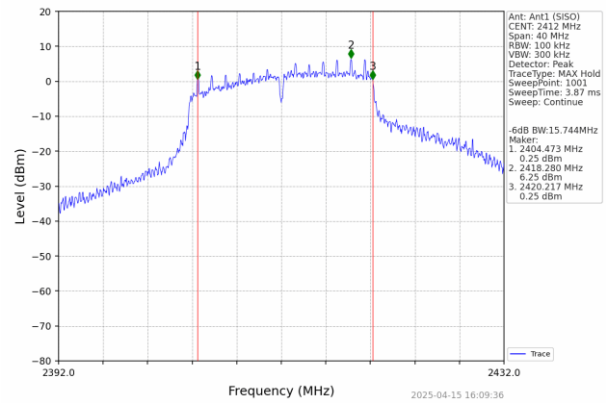
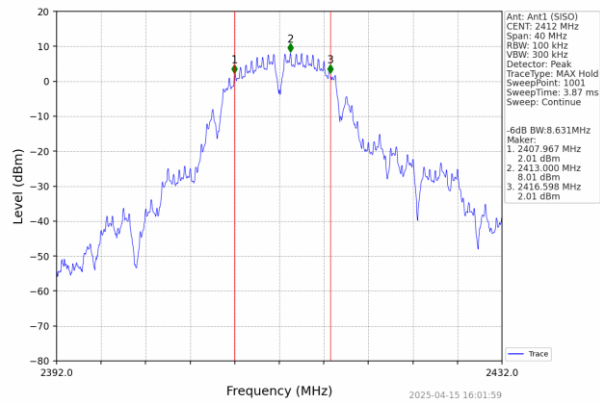
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 1 | 8.631 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 8.124 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 8.610 | ≥ 0.5 | Pass |
| 802.11g | SISO | 2412 | 1 | 15.744 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 15.736 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 15.788 | ≥ 0.5 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 16.325 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 16.209 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 16.406 | ≥ 0.5 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | 21.350 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 25.120 | ≥ 0.5 | Pass |
| | | 2452 | 1 | 35.538 | ≥ 0.5 | Pass |



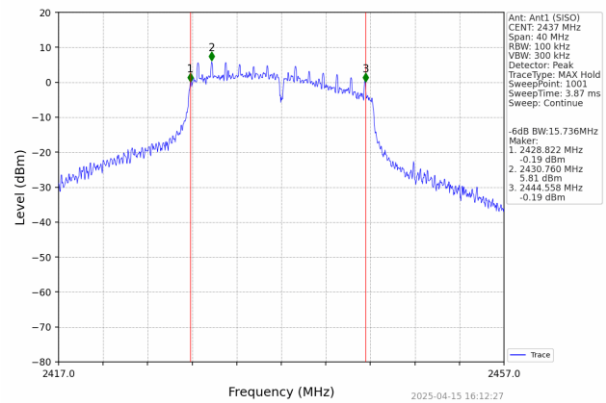
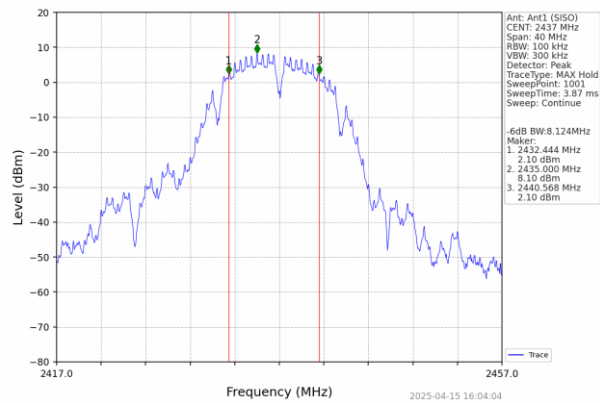
Report No.: HTT202504205F01

Test plot as follows:

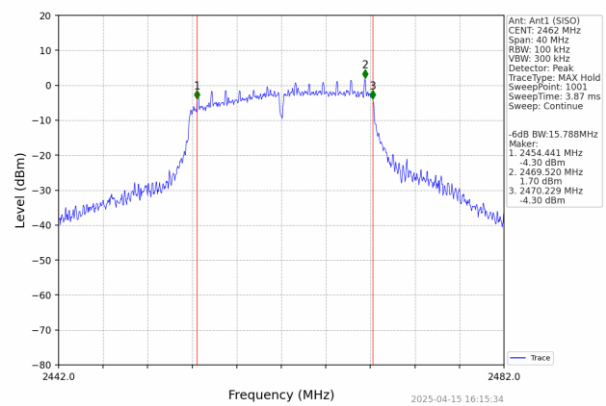
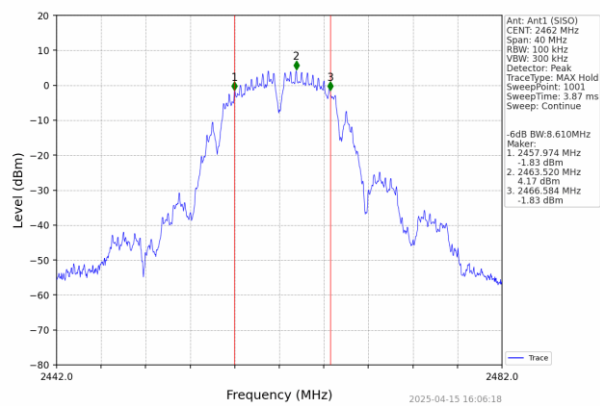
| | |
|---------|---------|
| 802.11b | 802.11g |
|---------|---------|



Lowest channel



Middle channel



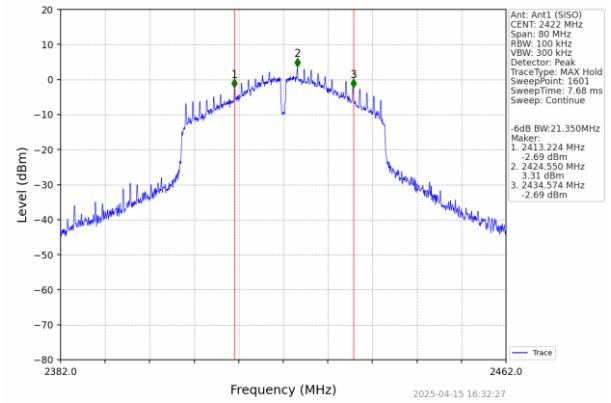
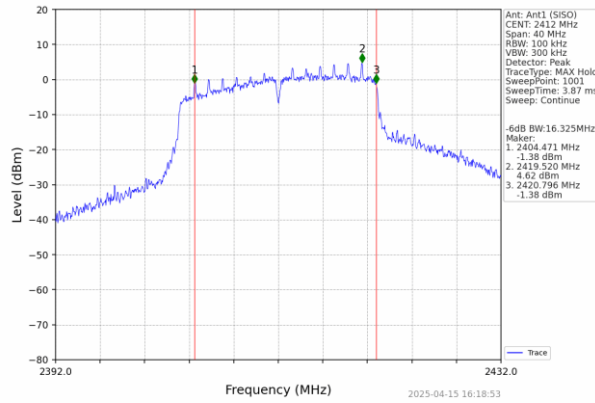
Highest channel



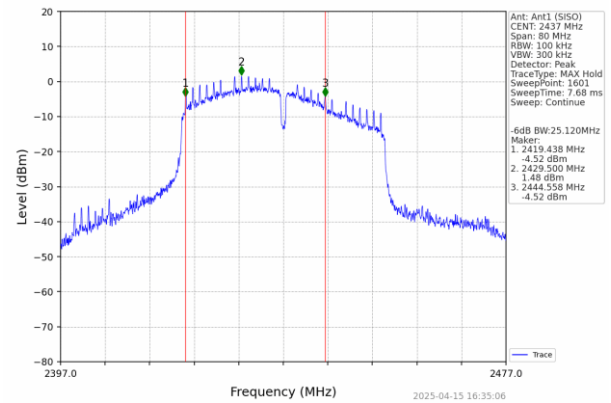
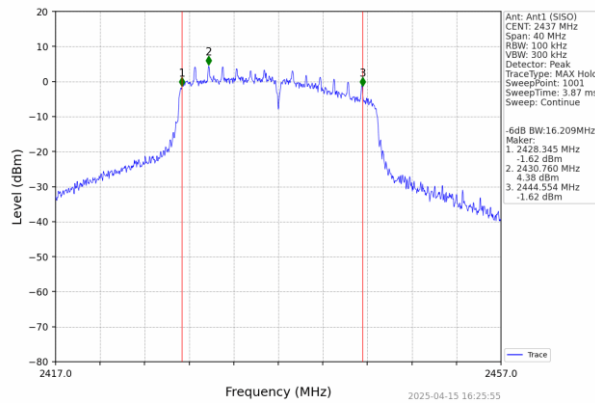
Report No.: HTT202504205F01

802.11n(HT20)

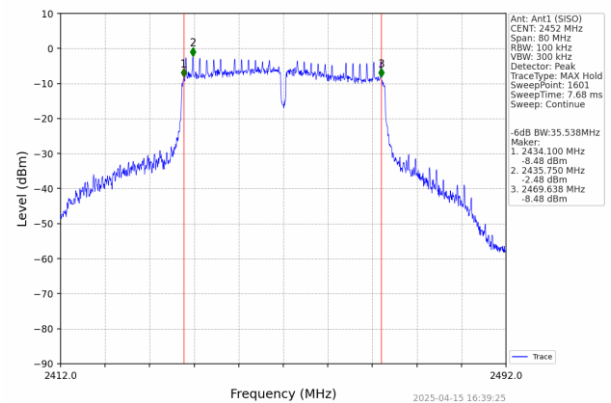
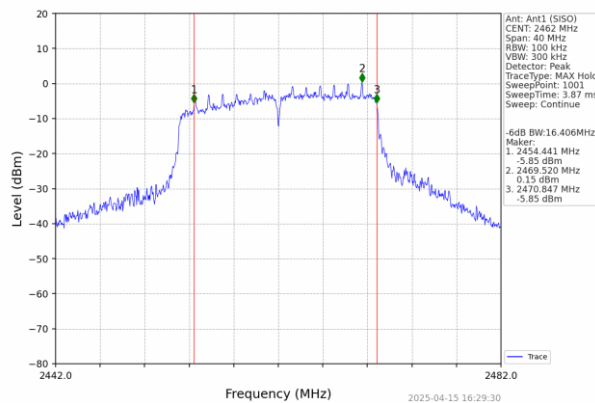
802.11n(HT40)



Lowest channel

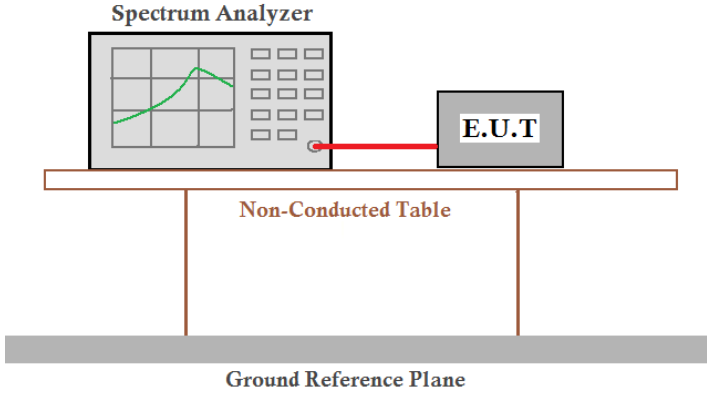


Middle channel



Highest channel

6.4. Power Spectral Density

| | | | | | | |
|-------------------|--|-------|---------|-----|---------|----------|
| Test Requirement: | FCC Part15 C Section 15.247 (e) | | | | | |
| Test Method: | KDB558074 D01 15.247 Meas Guidance v05r02 | | | | | |
| Limit: | 8dBm/3kHz | | | | | |
| Test setup: |  | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test results: | Pass | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |

Measurement Data

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
| | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | -5.99 | <=8 | Pass |
| | | 2437 | -6.40 | <=8 | Pass |
| | | 2462 | -9.39 | <=8 | Pass |
| 802.11g | SISO | 2412 | -8.50 | <=8 | Pass |
| | | 2437 | -7.50 | <=8 | Pass |
| | | 2462 | -12.99 | <=8 | Pass |
| 802.11n (HT20) | SISO | 2412 | -9.96 | <=8 | Pass |
| | | 2437 | -10.04 | <=8 | Pass |
| | | 2462 | -15.00 | <=8 | Pass |
| 802.11n (HT40) | SISO | 2422 | -10.08 | <=8 | Pass |
| | | 2437 | -12.05 | <=8 | Pass |
| | | 2452 | -16.01 | <=8 | Pass |

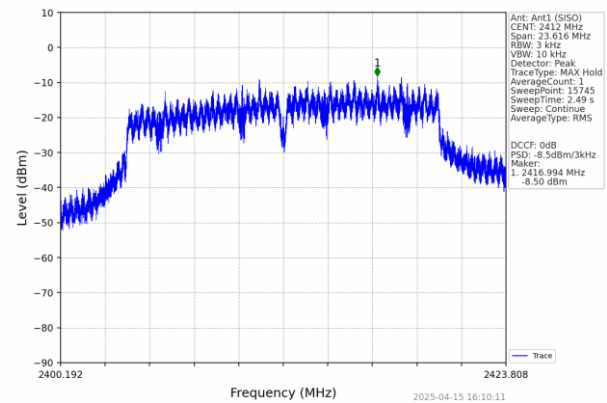
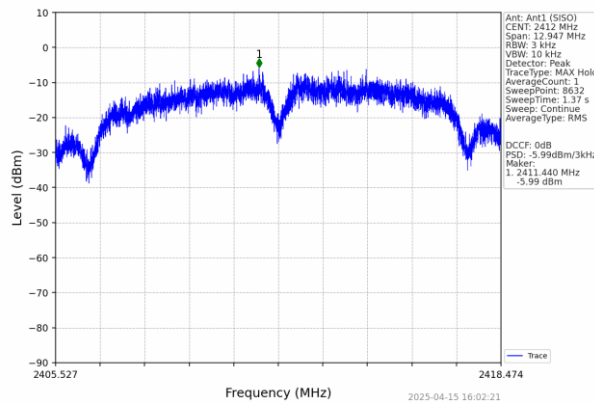
Remark: We have tested all mode at high, middle and low channel, and recorded worst case at middle



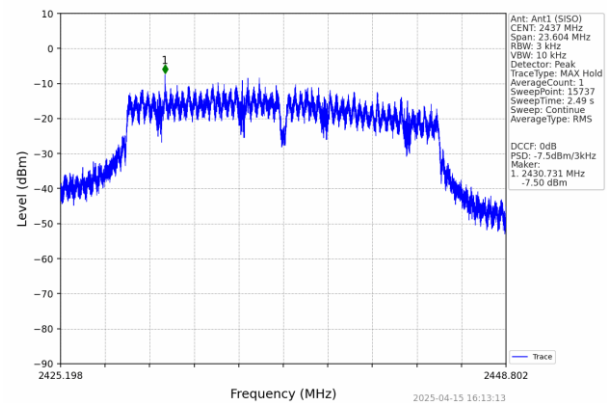
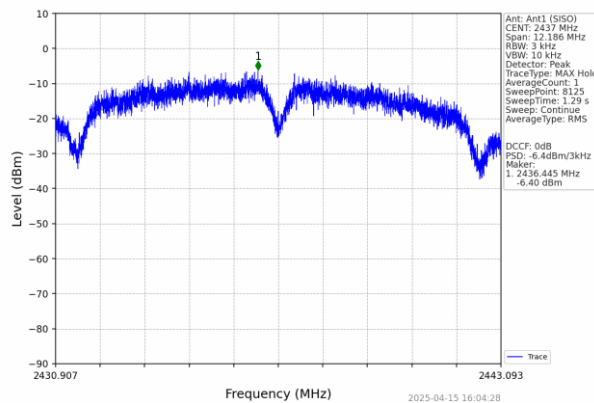
Report No.: HTT202504205F01

Test plot as follows:

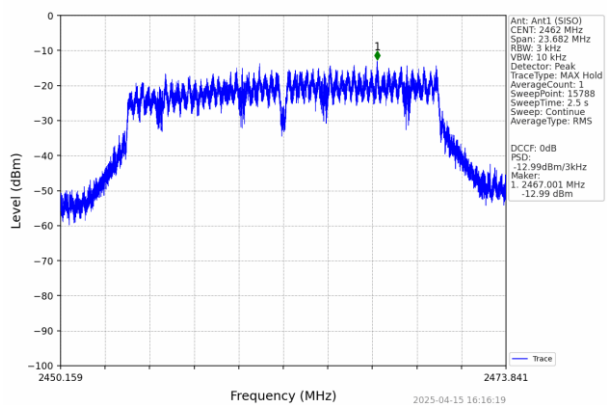
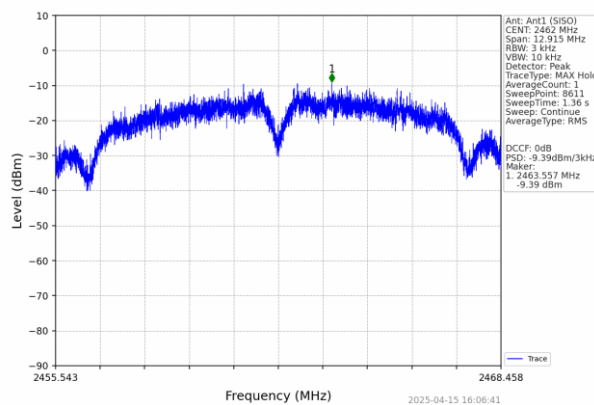
| | |
|---------|---------|
| 802.11b | 802.11g |
|---------|---------|



Lowest channel



Middle channel

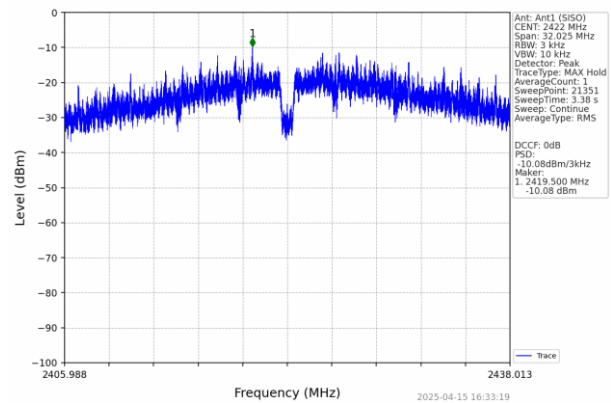
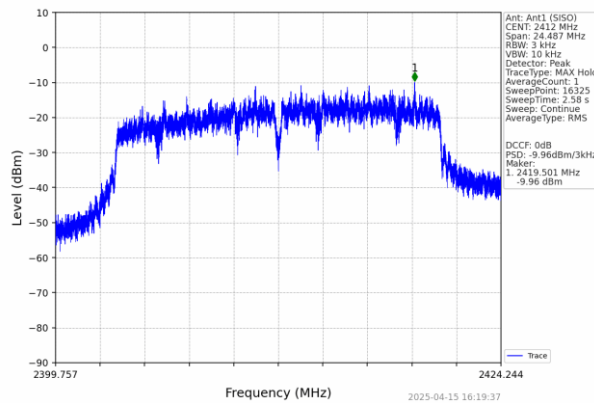


Highest channel

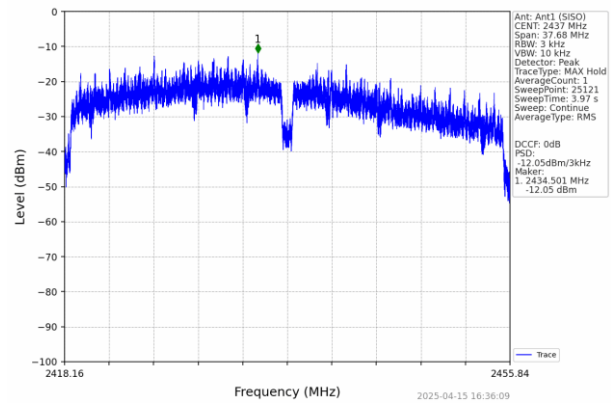
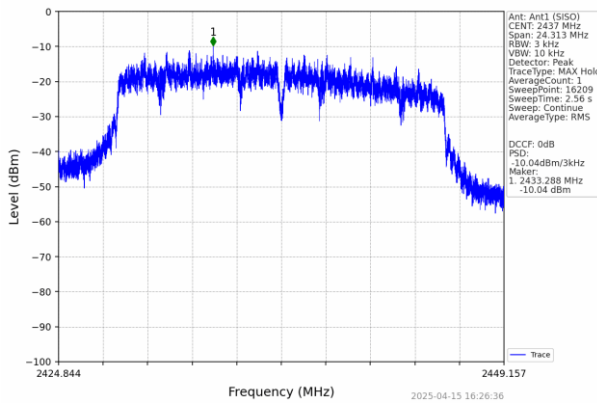


Report No.: HTT202504205F01

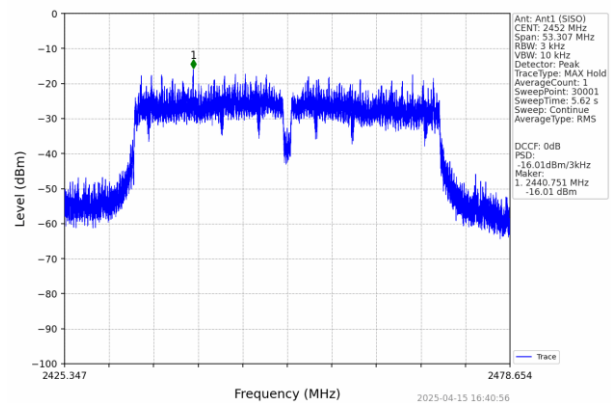
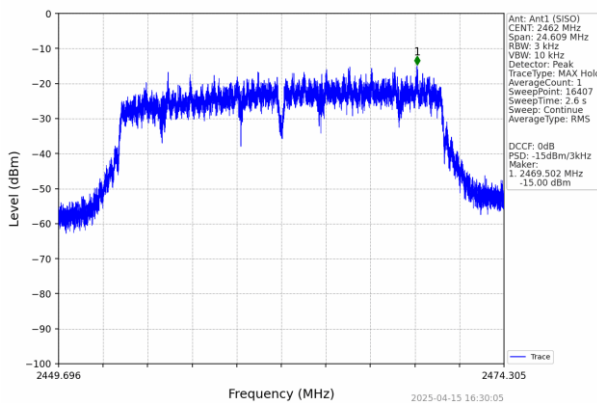
| | | | |
|---------------|--|---------------|--|
| 802.11n(HT20) | | 802.11n(HT40) | |
|---------------|--|---------------|--|



Lowest channel



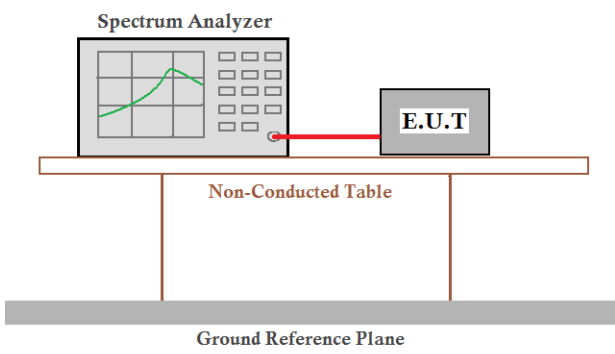
Middle channel



Highest channel

6.5. Band Edge

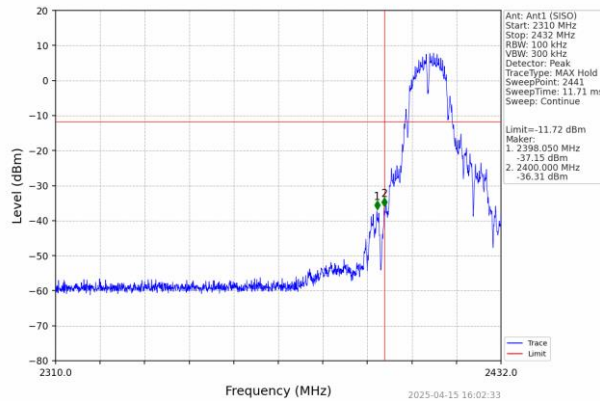
6.5.1. Conducted Emission Method

| | | | | | | |
|-------------------|--|-------|---------|-----|---------|----------|
| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | | |
| Test Method: | KDB558074 D01 15.247 Meas Guidance v05r02 | | | | | |
| Limit: | 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 setup: |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p> | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test results: | Pass | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |

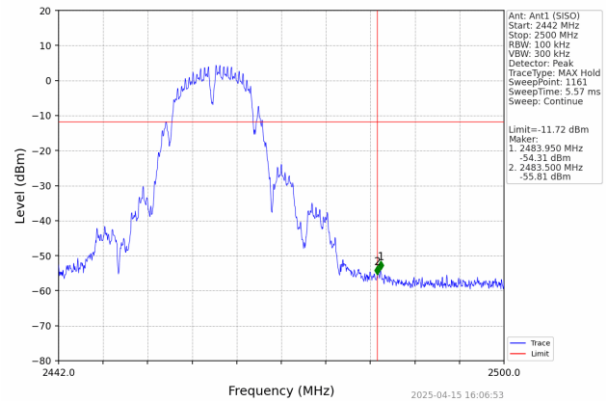


Test plot as follows:

| | |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|

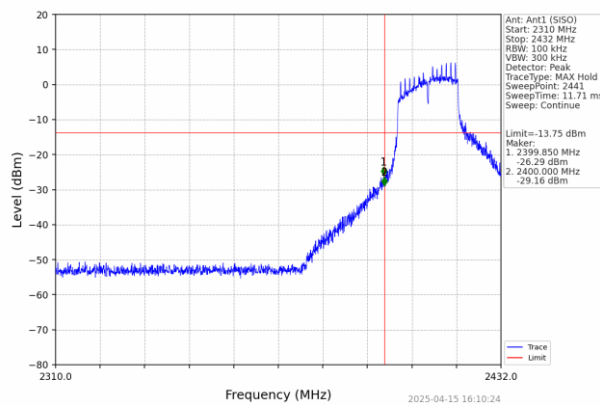


Lowest channel

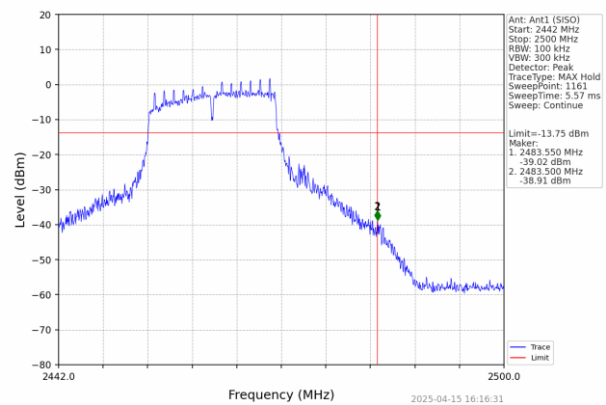


Highest channel

| | |
|------------|---------|
| Test mode: | 802.11g |
|------------|---------|



Lowest channel



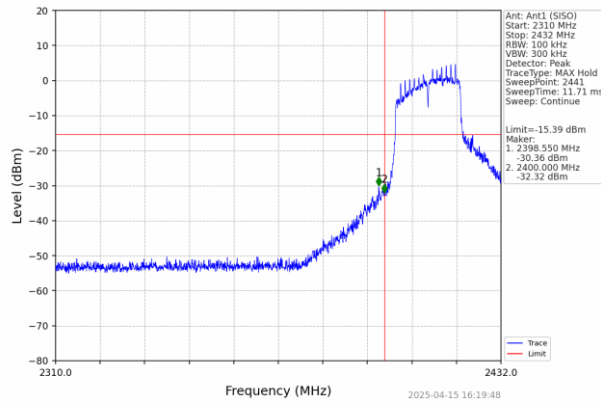
Highest channel



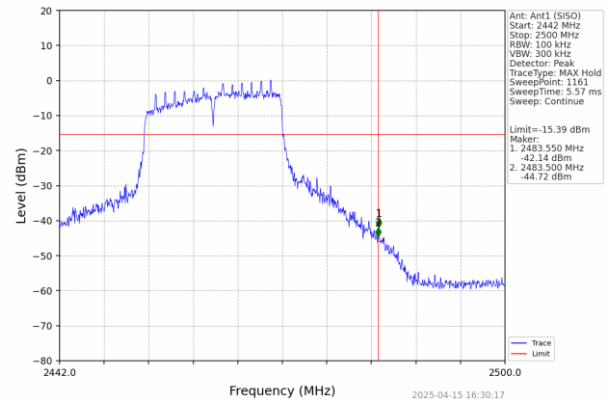
Report No.: HTT202504205F01

Test mode:

802.11n(HT20)



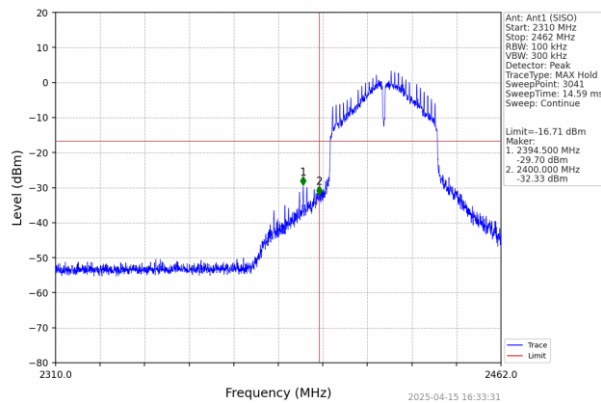
Lowest channel



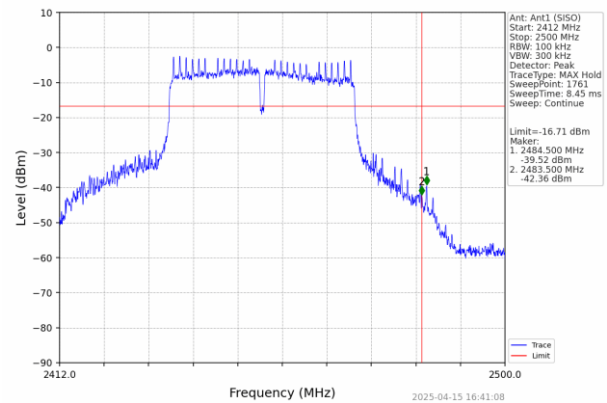
Highest channel

Test mode:

802.11n(HT40)

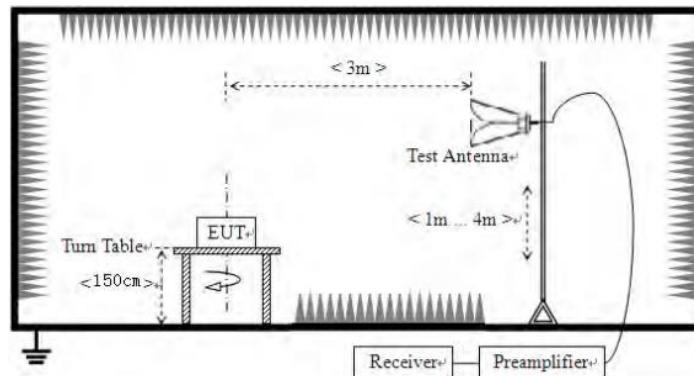


Lowest channel



Highest channel

6.5.2. Radiated Emission Method

| | | | | | | |
|-----------------------|--|----------|--------------------|------|---------------|----------|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | |
| Test Method: | ANSI C63.10: 2013 | | | | | |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. | | | | | |
| Test site: | Measurement Distance: 3m | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | |
| | | Peak | 1MHz | 10Hz | Average Value | |
| Limit: | Frequency | | Limit (dBuV/m @3m) | | Remark | |
| | Above 1GHz | | 54.00 | | Average Value | |
| | | | 74.00 | | Peak Value | |
| Test setup: |  | | | | | |
| Test Procedure: | <div>1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</div> <div>3. The antenna height 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.</div> <div>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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test results: | Pass | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |

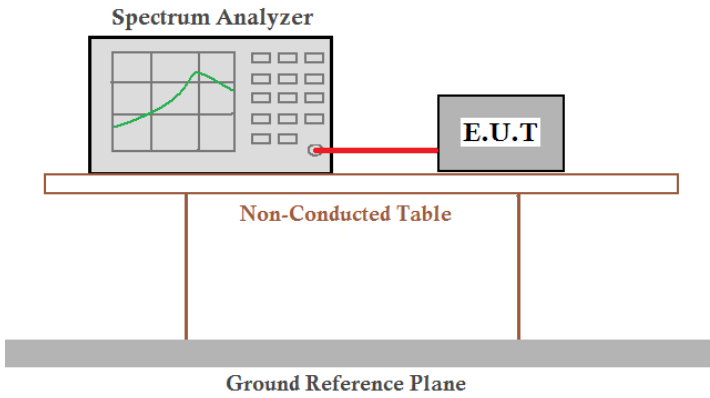
**Measurement Data**

Remark: During the test, pre-scan the 802.11b/802.11g/802.11n (H20)/802.11n (H40) modulation, and found the 802.11b modulation which it is worse case.

| Frequency(MHz): | | | 2412 | | Polarity: | | HORIZONTAL | | |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 2390.00 | 62.23 | PK | 74 | 11.77 | 63.62 | 27.2 | 4.31 | 32.9 | -1.39 |
| 2390.00 | 44.75 | AV | 54 | 9.25 | 46.14 | 27.2 | 4.31 | 32.9 | -1.39 |
| Frequency(MHz): | | | 2412 | | Polarity: | | VERTICAL | | |
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 2390.00 | 59.88 | PK | 74 | 14.12 | 61.27 | 27.2 | 4.31 | 32.9 | -1.39 |
| 2390.00 | 45.63 | AV | 54 | 8.37 | 47.02 | 27.2 | 4.31 | 32.9 | -1.39 |
| Frequency(MHz): | | | 2462 | | Polarity: | | HORIZONTAL | | |
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 2483.50 | 56.64 | PK | 74 | 17.36 | 57.57 | 27.4 | 4.47 | 32.8 | -0.93 |
| 2483.50 | 45.11 | AV | 54 | 8.89 | 46.04 | 27.4 | 4.47 | 32.8 | -0.93 |
| Frequency(MHz): | | | 2462 | | Polarity: | | VERTICAL | | |
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 2483.50 | 55.39 | PK | 74 | 18.61 | 56.32 | 27.4 | 4.47 | 32.8 | -0.93 |
| 2483.50 | 44.53 | AV | 54 | 9.47 | 45.46 | 27.4 | 4.47 | 32.8 | -0.93 |

6.6. Spurious Emission

6.6.1. Conducted Emission Method

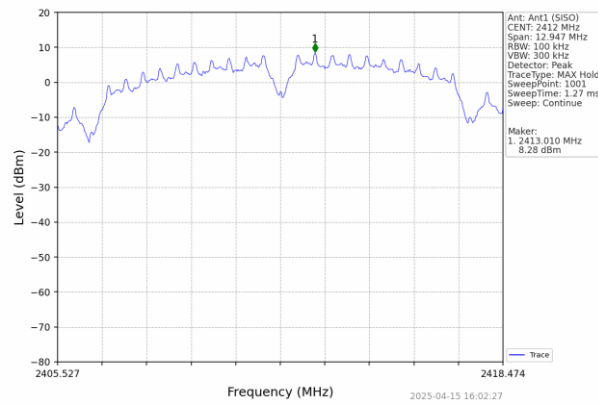
| | | | | | | |
|-------------------|---|-------|---------|-----|---------|----------|
| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | | |
| Test Method: | KDB558074 D01 15.247 Meas Guidance v05r02 | | | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread 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 setup: |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p> | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | |
| Test results: | Pass | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar |



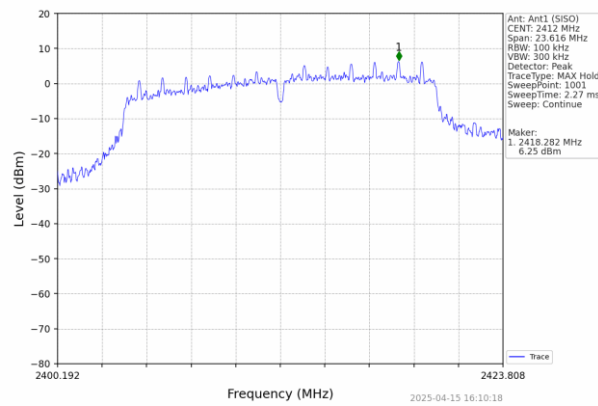
Report No.: HTT202504205F01

Measurement Data:

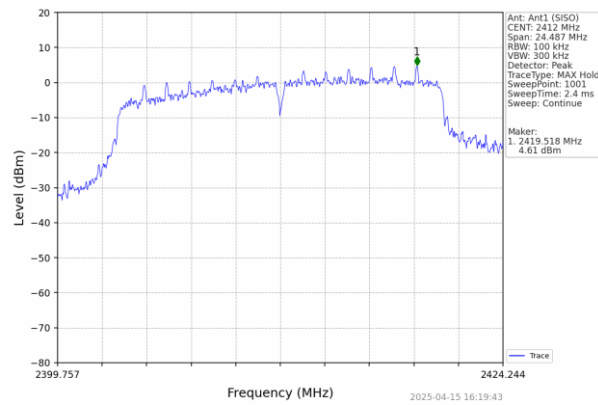
Reference



802.11b



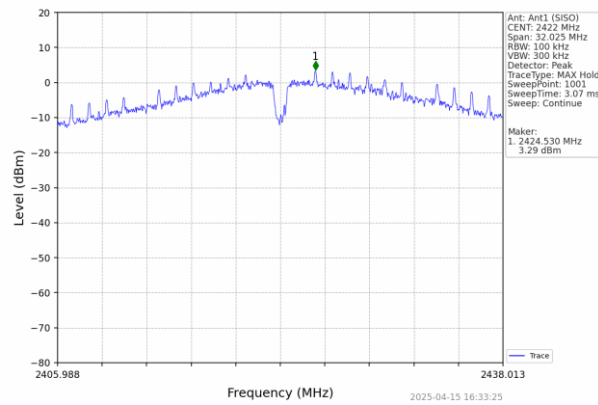
802.11g



802.11n(HT20)



Report No.: HTT202504205F01



802.11n(HT40)

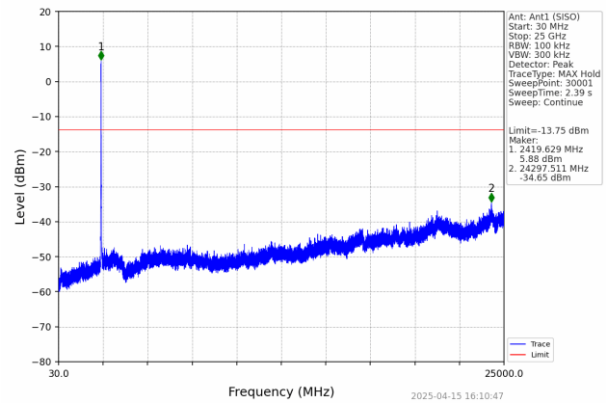
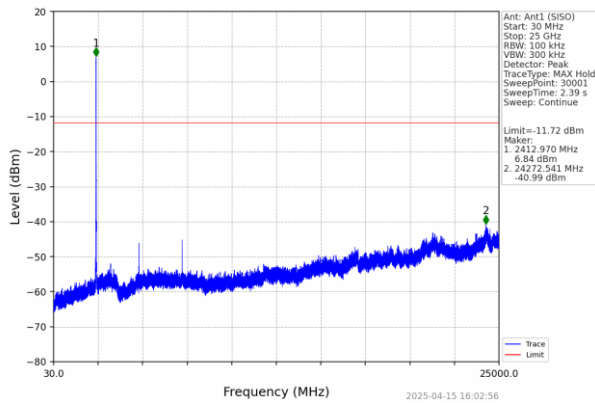


Report No.: HTT202504205F01

802.11b

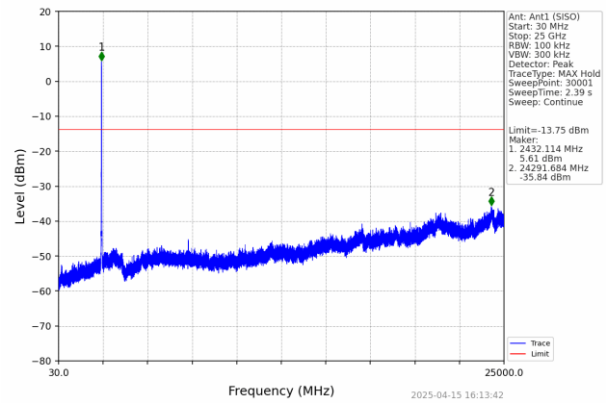
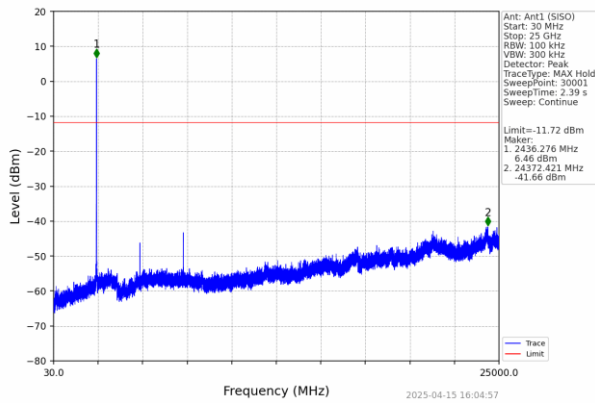
802.11g

Lowest channel



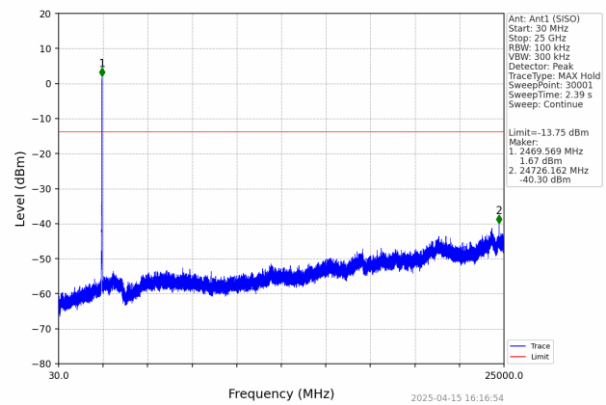
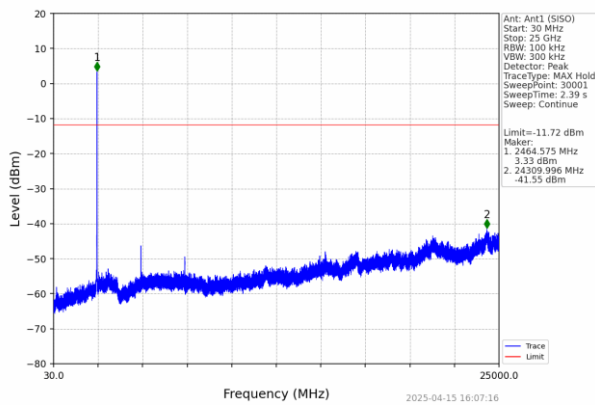
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel



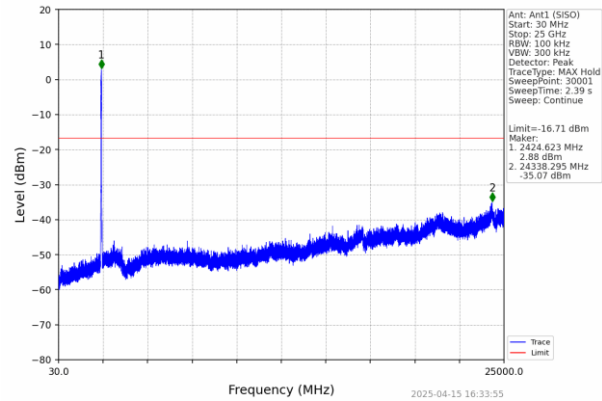
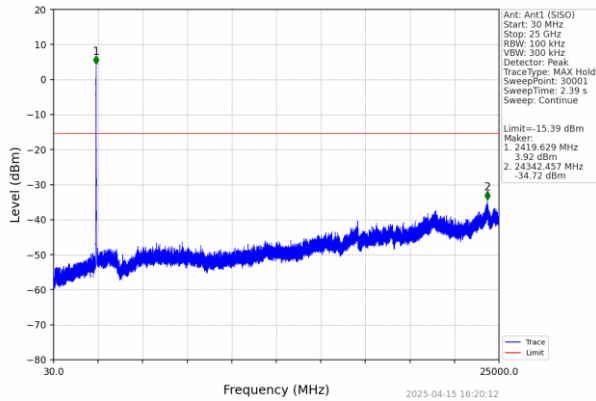
30MHz~25GHz



802.11n(HT20)

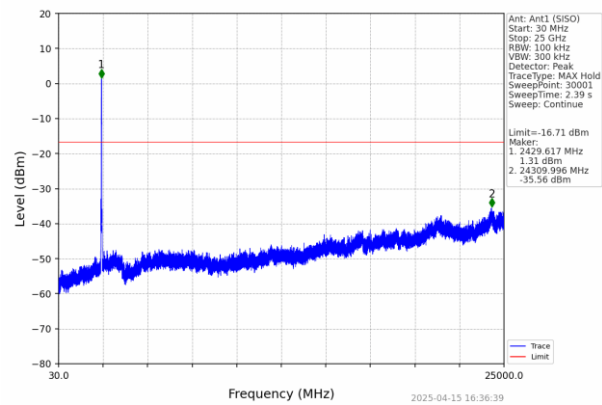
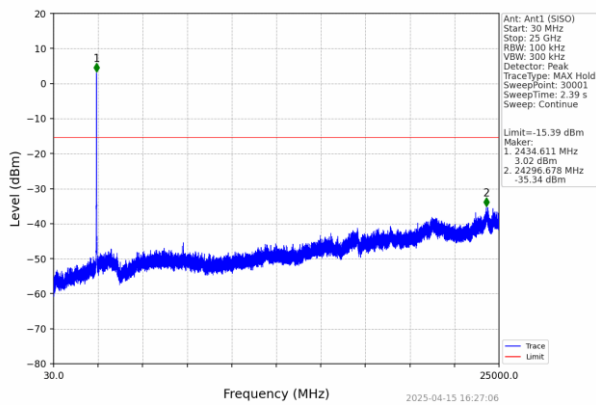
802.11n(HT40)

Lowest channel



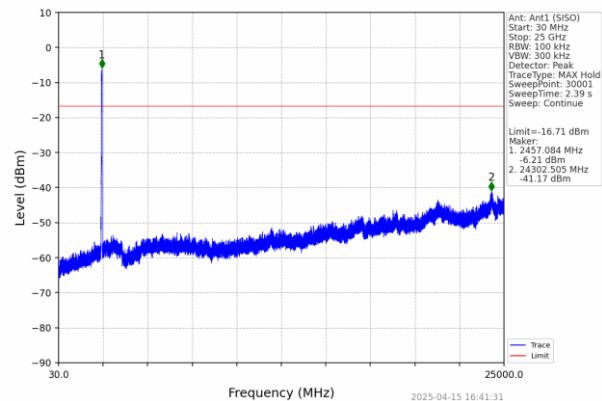
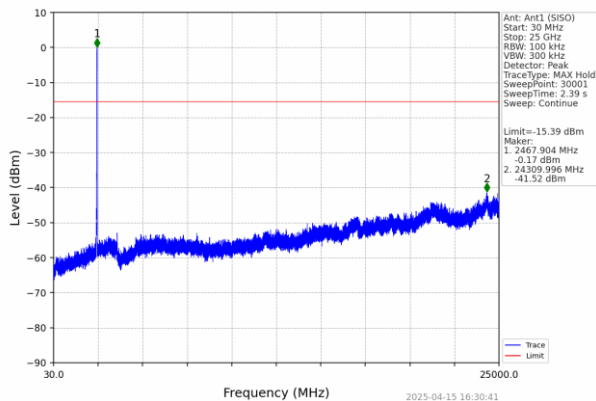
30MHz~25GHz

Middle channel



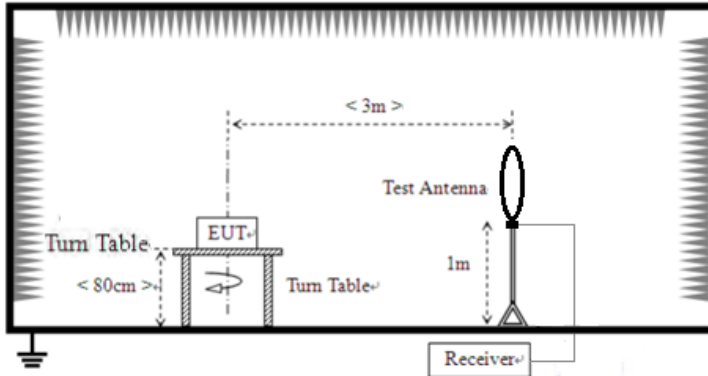
30MHz~25GHz

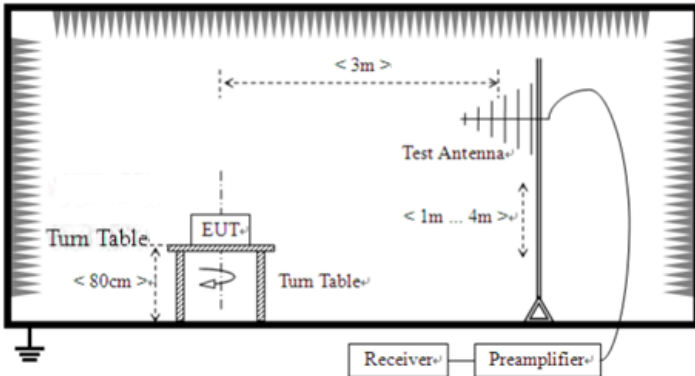
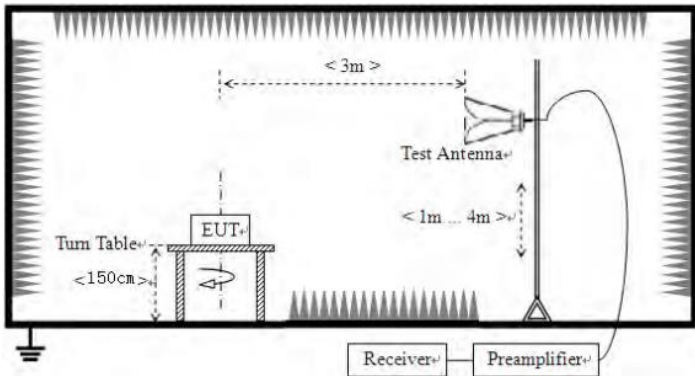
Highest channel



30MHz~25GHz

6.6.2. Radiated Emission Method

| | | | | | |
|-----------------------|--|--------------|---------|----------------------|------------|
| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 9kHz to 25GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| | 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | | Peak | 1MHz | 10Hz | Average |
| Limit: | Frequency | Limit (uV/m) | Value | Measurement Distance | |
| | 0.009MHz-0.490MHz | 2400/F(KHz) | QP | 300m | |
| | 0.490MHz-1.705MHz | 24000/F(KHz) | QP | 30m | |
| | 1.705MHz-30MHz | 30 | QP | 30m | |
| | 30MHz-88MHz | 100 | QP | 3m | |
| | 88MHz-216MHz | 150 | QP | | |
| | 216MHz-960MHz | 200 | QP | | |
| | 960MHz-1GHz | 500 | QP | | |
| | Above 1GHz | 500 | Average | | |
| | | 5000 | Peak | | |
| Test setup: | For radiated emissions from 9kHz to 30MHz | | | | |
| |  | | | | |

| | | | | | | | |
|-------------------|---|-------|---------|-----|---------|----------|--|
| | <p>For radiated emissions from 30MHz to1GHz</p>  <p>For radiated emissions above 1GHz</p>  | | | | | | |
| Test Procedure: | <ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. The antenna height 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 rota 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 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% | Press.: | 1012mbar | |



Report No.: HTT202504205F01

| | |
|---------------|---------------|
| Test voltage: | AC 120V, 60Hz |
| Test results: | Pass |

Remarks:

- 1. Only the worst case Main Antenna test data.*
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

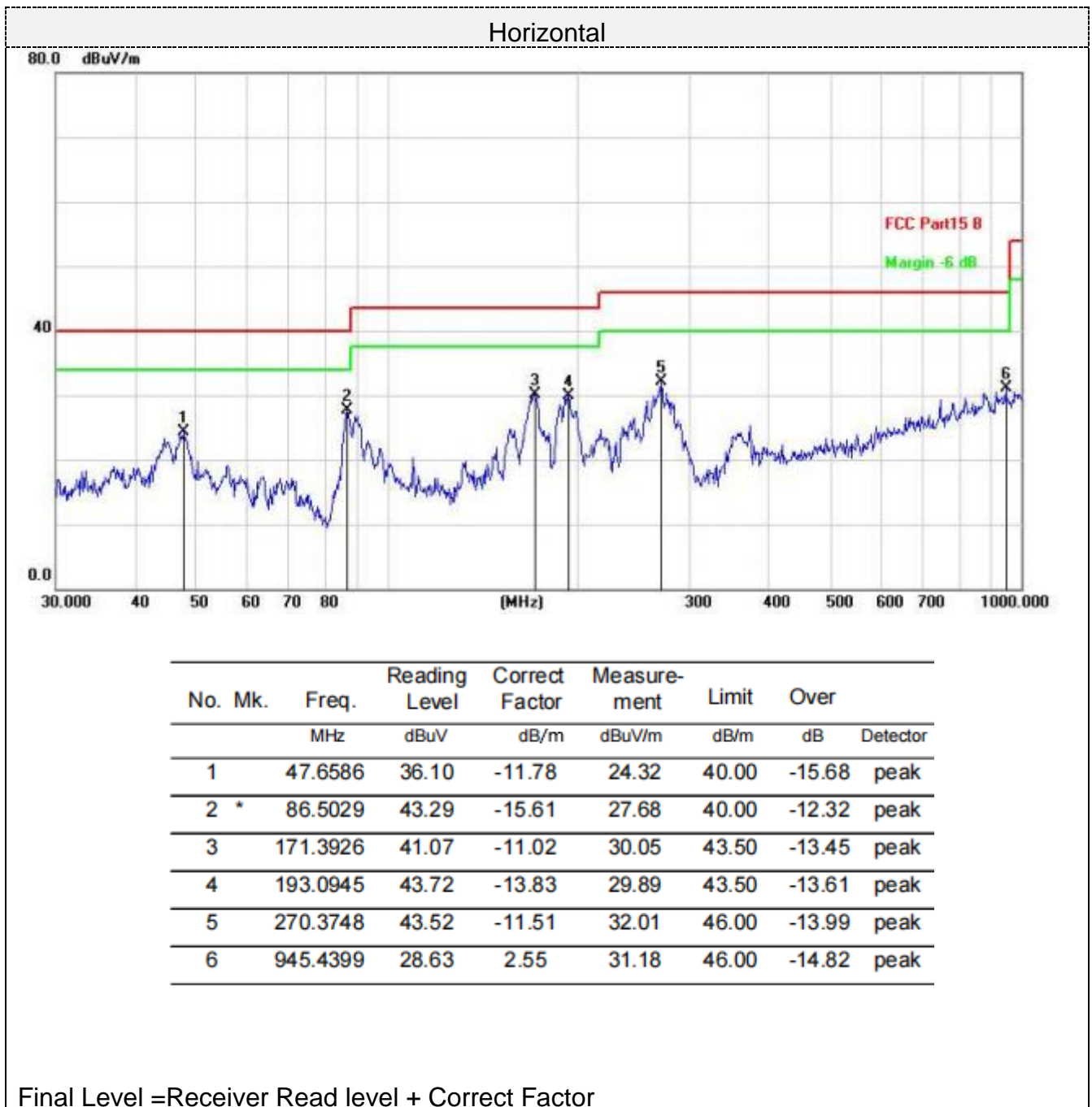
Measurement data:

■ **9kHz~30MHz**

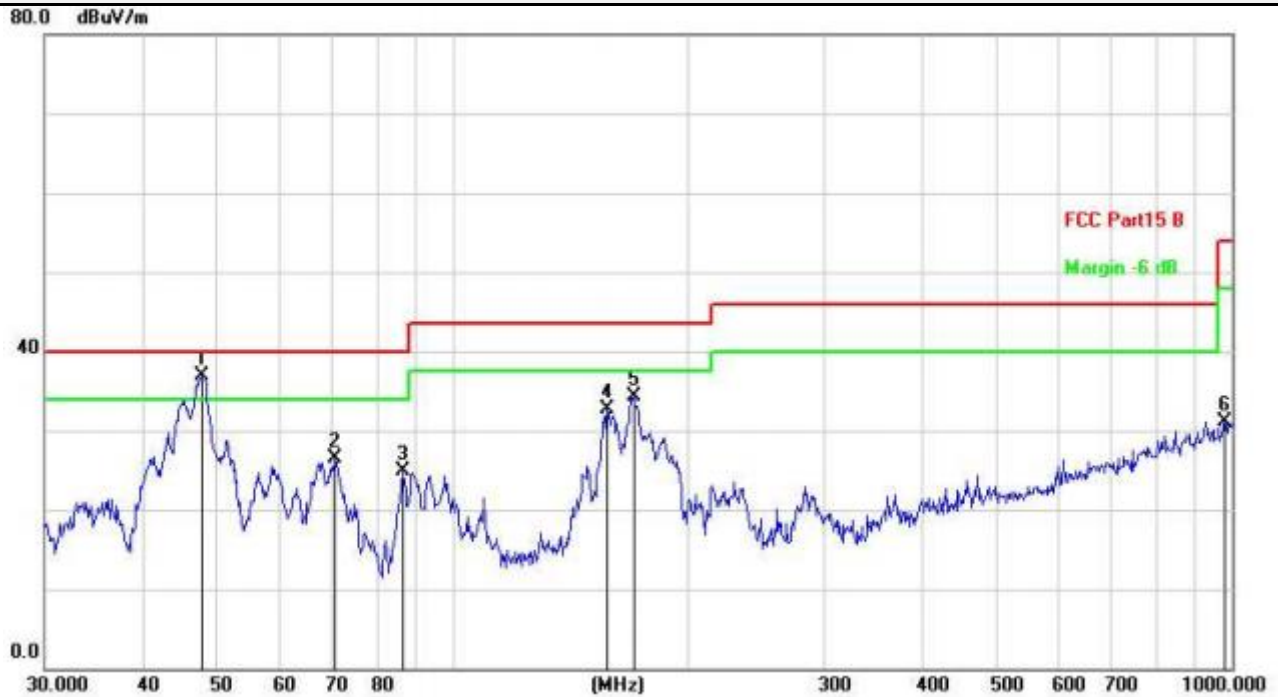
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Below 1GHz

Pre-scan all test modes, found worst case at 802.11b 2437MHz, and so only show the test result of 802.11b 2437MHz



Vertical



| No. | Mk. | Freq. | Reading | Correct | Measure- | Limit | Over | |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|
| | | MHz | Level | Factor | ment | | | |
| | | | dBuV | dB/m | dBuV/m | dB/m | dB | Detector |
| 1 | * | 47.6584 | 48.77 | -11.78 | 36.99 | 40.00 | -3.01 | peak |
| 2 | | 70.8315 | 40.66 | -14.23 | 26.43 | 40.00 | -13.57 | peak |
| 3 | | 86.5027 | 40.56 | -15.61 | 24.95 | 40.00 | -15.05 | peak |
| 4 | | 158.1123 | 43.42 | -10.72 | 32.70 | 43.50 | -10.80 | peak |
| 5 | | 170.7925 | 45.19 | -10.96 | 34.23 | 43.50 | -9.27 | peak |
| 6 | | 979.1803 | 27.96 | 3.23 | 31.19 | 54.00 | -22.81 | peak |

Final Level = Receiver Read level + Correct Factor



■ Above 1-25GHz

Note: During the test, pre-scan the 802.11b/802.11g/802.11n (H20)/802.11n (H40) modulation, and found the 802.11b modulation which it is worse case.

802.11b:

| Frequency(MHz): | | | 2412 | | Polarity: | | HORIZONTAL | | |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4824.00 | 59.41 | PK | 74 | 14.59 | 53.59 | 31.05 | 6.52 | 31.75 | 5.82 |
| 4824.00 | 43.77 | AV | 54 | 10.23 | 37.95 | 31.05 | 6.52 | 31.75 | 5.82 |
| 7236.00 | 56.59 | PK | 74 | 17.41 | 43.78 | 36.08 | 8.18 | 31.45 | 12.81 |
| 7236.00 | 46.78 | AV | 54 | 7.22 | 33.97 | 36.08 | 8.18 | 31.45 | 12.81 |

| Frequency(MHz): | | | 2412 | | Polarity: | | VERTICAL | | |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4824.00 | 60.45 | PK | 74 | 13.55 | 54.63 | 31.05 | 6.52 | 31.75 | 5.82 |
| 4824.00 | 43.76 | AV | 54 | 10.24 | 37.94 | 31.05 | 6.52 | 31.75 | 5.82 |
| 7236.00 | 56.77 | PK | 74 | 17.23 | 43.96 | 36.08 | 8.18 | 31.45 | 12.81 |
| 7236.00 | 46.27 | AV | 54 | 7.73 | 33.46 | 36.08 | 8.18 | 31.45 | 12.81 |

| Frequency(MHz): | | | 2437 | | Polarity: | | HORIZONTAL | | |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4874.00 | 62.40 | PK | 74 | 11.60 | 55.96 | 31.25 | 6.7 | 31.51 | 6.44 |
| 4874.00 | 45.11 | AV | 54 | 8.89 | 38.67 | 31.25 | 6.7 | 31.51 | 6.44 |
| 7311.00 | 55.90 | PK | 74 | 18.10 | 42.76 | 36.25 | 8.31 | 31.42 | 13.14 |
| 7311.00 | 45.31 | AV | 54 | 8.69 | 32.17 | 36.25 | 8.31 | 31.42 | 13.14 |



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| Frequency(MHz): | | | 2437 | | Polarity: | | VERTICAL | | |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4874.00 | 61.06 | PK | 74 | 12.94 | 54.62 | 31.25 | 6.7 | 31.51 | 6.44 |
| 4874.00 | 45.19 | AV | 54 | 8.81 | 38.75 | 31.25 | 6.7 | 31.51 | 6.44 |
| 7311.00 | 56.97 | PK | 74 | 17.03 | 43.83 | 36.25 | 8.31 | 31.42 | 13.14 |
| 7311.00 | 45.98 | AV | 54 | 8.02 | 32.84 | 36.25 | 8.31 | 31.42 | 13.14 |

| Frequency(MHz): | | | 2462 | | Polarity: | | HORIZONTAL | | |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4924.00 | 61.54 | PK | 74 | 12.46 | 54.67 | 31.52 | 6.8 | 31.45 | 6.87 |
| 4924.00 | 45.46 | AV | 54 | 8.54 | 38.59 | 31.52 | 6.8 | 31.45 | 6.87 |
| 7386.00 | 56.36 | PK | 74 | 17.64 | 42.80 | 36.51 | 8.4 | 31.35 | 13.56 |
| 7386.00 | 47.14 | AV | 54 | 6.86 | 33.58 | 36.51 | 8.4 | 31.35 | 13.56 |

| Frequency(MHz): | | | 2462 | | Polarity: | | VERTICAL | | |
|-----------------|-------------------------|----|----------------|-------------|------------------|-----------------------|-------------------|--------------------|--------------------------|
| Frequency (MHz) | Emission Level (dBuV/m) | | Limit (dBuV/m) | Margin (dB) | Raw Value (dBuV) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-amplifier (dB) | Correction Factor (dB/m) |
| 4924.00 | 60.15 | PK | 74 | 13.85 | 53.28 | 31.52 | 6.8 | 31.45 | 6.87 |
| 4924.00 | 45.08 | AV | 54 | 8.92 | 38.21 | 31.52 | 6.8 | 31.45 | 6.87 |
| 7386.00 | 57.12 | PK | 74 | 16.88 | 43.56 | 36.51 | 8.4 | 31.35 | 13.56 |
| 7386.00 | 47.28 | AV | 54 | 6.72 | 33.72 | 36.51 | 8.4 | 31.35 | 13.56 |

Remark:

(1) Data of measurement within this frequency range shown “--- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

(2) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.



6.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR 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 6dBi 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 6dBi.

Antenna Connected Construction

The maximum gain of antenna was 2.50 dBi.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen HTT Technology Co., Ltd. does not assume any responsibility.



7. Test Setup Photo

Reference to the **appendix I** for details.

8. EUT Constructional Details

Reference to the **appendix II** for details.

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