



RF TEST REPORT

Report No.: 20230817G11026X-W6

Product Name: Mobile Data terminal

Model No.: CT58, CT58S, CT58C, CT58H, CT58A, CT58X, CT58D, CT58R, D
T58, DT58C, DT58S, DT58D, HS510, HS580, HB510, HB580

FCC ID: SWSCT58

Applicant: UROVO TECHNOLOGY CO., LTD.

Address: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road, Nanshan
District, Shenzhen, Guangdong, China

Dates of Testing: 08/31/2023 - 09/20/2023

Issued by: CCIC Southern Testing Co., Ltd.

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

Product: Mobile Data terminal
Brand Name.....: UROVO
Trade Name: UROVO
Applicant.....: UROVO TECHNOLOGY CO., LTD.
Applicant Address: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road,
Nanshan District, Shenzhen, Guangdong, China
Manufacturer: UROVO TECHNOLOGY CO., LTD.
Manufacturer Address: 36F,High-Tech Zone Union Tower,No.63,Xuefu Road,
Nanshan District, Shenzhen, Guangdong, China
Test Standards: 47 CFR Part 15 Subpart E 15.407
ANSI C63.10-2013

Test Result.....: Pass

Tested by: Chuiwang Zhang 2023.09.21
Chuiwang Zhang, Test Engineer

Reviewed by: Chris You 2023.09.21
Chris You, Senior Engineer

Approved by: Yang Fan 2023.09.21
Yang Fan, Manager



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| Change History | | |
|----------------|------------|-------------------|
| Issue | Date | Reason for change |
| 1.0 | 2023.09.21 | First edition |
| | | |



1. GENERAL INFORMATION

1.1. EUT Description

| | | |
|---------------------------------|---|-------------------|
| Product Name | Mobile Data terminal | |
| EUT supports Radios application | WLAN5.0GHz 802.11a/n/ac | |
| Product Type | Client devices | |
| Modulation Type | 802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) | |
| Transfer Rate | 802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.333 Mbps | |
| Frequency Range | UNII-1: 5150 ~ 5250MHz, UNII-2a: 5250 ~ 5350MHz UNII-2c: 5470 ~ 5725MHz, UNII-3: 5725 ~ 5850MHz | |
| Channel Bandwidth | 802.11a: 20MHz 802.11n: 20MHz/40MHz 802.11ac: 20MHz/40MHz/80MHz | |
| Channel Number | UNII-1: 4 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 2 for 802.11n(HT40), 802.11ac(VHT40) 1 for 802.11ac(VHT80) UNII-2a: 4 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 2 for 802.11n(HT40), 802.11ac(VHT40), 1 for 802.11ac(VHT80) UNII-2c: 8 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 3 for 802.11n(HT40), 802.11ac(VHT40) 1 for 802.11ac(VHT80) UNII-3: 5 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 2 for 802.11n(HT40), 802.11ac(VHT40) 1 for 802.11ac(VHT80) | |
| Antenna Type | Internal Antenna | |
| Antenna Gain | 1.28dBi | |
| Output Power (Max.) | UNII-1: 14.93dBm | UNII-2a: 14.63dBm |
| | UNII-2c: 14.65dBm | UNII-3: 14.80dBm |
| Power supply | Rechargeable Li-ion Polymer Battery DC 3.85V/5000mAh | |

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

Note 2: For model differences, the electrical circuit design, layout, components used and internal wiring, with only difference in model name.



1.2. Test Standards and Results

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

| No. | Identity | Document Title |
|-----|---|---|
| 1 | 47 CFR Part 15 Subpart E §15.407 | Radio Frequency Devices |
| 2 | KDB789033 D02 General UNII Test Procedures New Rules v02r01 | Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E |
| 3 | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |

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

| No. | FCC Rule | Description | Result |
|-----|--|---|--------|
| 1 | 15.203 15.407(a) | Antenna Requirement | PASS |
| 2 | 15.407(a)(1)(iv) 15.407 (a)(2) 15.407(a)(3)(i) | Maximum Conducted Output Power | PASS |
| 3 | 15.407(a)(12) | 26dB Emission Bandwidth 99% Occupied Bandwidth | PASS |
| 4 | 15.407(e) | 6dB Emission Bandwidth | PASS |
| 5 | 15.407(a)(1)(iv) 15.407 (a)(2) 15.407(a)(3)(i) | Power spectral density (PSD) | PASS |
| 6 | 15.207 | AC Power Line Conducted Emission | PASS |
| 7 | 15.205 15.209 15.407(b)(1) 15.407(b)(2) 15.407(b)(3) 15.407(b)(4) | Radiated Band Edges and Spurious Emission | PASS |
| 8 | 15.407(g) | Frequency Stability | PASS |

1.3. Channel List

Operated band in 5150 MHz ~ 5250MHz

4 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 36 | 5180 | 44 | 5220 |
| 40 | 5200 | 48 | 5240 |

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 38 | 5190 | 46 | 5230 |

1 channels are provided for 802.11ac-VHT80.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 42 | 5210 | / | / |

Operated band in 5250 MHz ~ 5350MHz

4 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 52 | 5260 | 60 | 5300 |
| 56 | 5280 | 64 | 5320 |

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 54 | 5270 | 62 | 5310 |

1 channels are provided for 802.11ac-VHT80.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 58 | 5290 | / | / |

Operated band in 5470 MHz ~ 5725MHz

8 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|---------|----------------|
| 100 | 5500 | 116 | 5580 | / | / |
| 104 | 5520 | 132 | 5660 | / | / |
| 108 | 5540 | 136 | 5680 | / | / |
| 112 | 5560 | 140 | 5700 | / | / |

3 channels are provided for 802.11n-HT40 and 802.11ac-VHT40.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|---------|----------------|
| 102 | 5510 | 134 | 5670 | / | / |
| 110 | 5550 | / | / | / | / |

1 channels are provided for 802.11ac-VHT80.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|---------|----------------|
| 106 | 5530 | / | / | / | / |

Operated band in 5725 MHz ~ 5850MHz

5 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 149 | 5745 | 161 | 5805 |
| 153 | 5765 | 165 | 5825 |
| 157 | 5785 | | |

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40.

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 151 | 5755 | 159 | 5795 |

1 channel are provided for 802.11ac-VHT80

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 155 | 5775 | / | / |

1.4. Test environment and mode

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

| Operating Environment | |
|--------------------------------|---|
| Temperature | 15°C - 35°C |
| Humidity | 30% -60% |
| Atmospheric Pressure | 86kPa-106kPa |
| Test mode: | |
| Continuously transmitting mode | Keeps the EUT in 100% duty cycle transmitting with modulation in SISO, duty cycle factor is not required. |

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:

| For Frequency band 5150 ~ 5250 MHz | | | | |
|------------------------------------|----------------|------|------|-----------|
| Test Mode | Frequency(MHz) | | | Data rate |
| | LCH | MCH | HCH | |
| 802.11a | 5180 | 5220 | 5240 | 6 Mbps |
| 802.11n-HT20/ac-VHT20 | | | | MCS 0 |
| 802.11n-HT40/ac-VHT40 | 5190 | / | 5230 | MCS 0 |
| 802.11ac-VHT80 | 5210 | / | / | MCS 0 |

Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.



| For Frequency band 5250 ~ 5350 MHz | | | | |
|------------------------------------|----------------|------|------|-----------|
| Test Mode | Frequency(MHz) | | | Data rate |
| | LCH | MCH | HCH | |
| 802.11a | 5260 | 5300 | 5320 | 6 Mbps |
| 802.11n-HT20/ac-VHT20 | | | | MCS 0 |
| 802.11n-HT40/ac-VHT40 | 5270 | / | 5310 | MCS 0 |
| 802.11ac-VHT80 | 5290 | / | / | MCS 0 |

Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.

| For Frequency band 5470 ~ 5725 MHz | | | | |
|------------------------------------|----------------|------|------|-----------|
| Test Mode | Frequency(MHz) | | | Data rate |
| | LCH | MCH | HCH | |
| 802.11a | 5500 | 5580 | 5700 | 6 Mbps |
| 802.11n-HT20/ac-VHT20 | | | | MCS 0 |
| 802.11n-HT40/ac-VHT40 | 5510 | 5550 | 5670 | MCS 0 |
| 802.11ac-VHT80 | 5530 | / | / | MCS 0 |

Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.

| For Frequency band 5725 ~ 5850 MHz | | | | |
|------------------------------------|----------------|------|------|-----------|
| Test Mode | Frequency(MHz) | | | Data rate |
| | LCH | MCH | HCH | |
| 802.11a | 5745 | 5785 | 5825 | 6 Mbps |
| 802.11n-HT20/ac-VHT20 | | | | MCS 0 |
| 802.11n-HT40/ac-VHT40 | 5755 | / | 5795 | MCS 0 |
| 802.11ac-VHT80 | 5775 | / | / | MCS 0 |

Note: After scanning all modulation types and data rates for all test patterns, the above list was found to be the worst case.

1.5. Table for Supporting Units

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



1.6. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Sep. 30th, 2023.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Sep. 30th, 2023.

CAB number: CN0064

A2LA Code: 5721.01

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

2. Test Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

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

According to FCC 15.407(a)(1): For client devices in the 5.15-5.25 GHz band, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to FCC 15.407(a)(2): For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to FCC 15.407(a)(3): For the band 5.725-5.850 GHz, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS GEN 6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

2.1.2. Antenna Information

Antenna Category: Internal Antenna

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

Antenna General Information:

| No. | EUT | Operating frequency range | Ant. Type | Ant. Gain |
|-----|----------------------|----------------------------------|-----------|-----------|
| 1 | Mobile Data terminal | UNII-1, UNII-2a, UNII-2c, UNII-3 | Internal | 1.28dBi |

2.1.3. Result: comply

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

2.2. Maximum Conducted Output Power

2.2.1. Limit of Maximum Conducted Output Power

FCC Part 15.407(a):

The maximum conducted output power should not exceed:

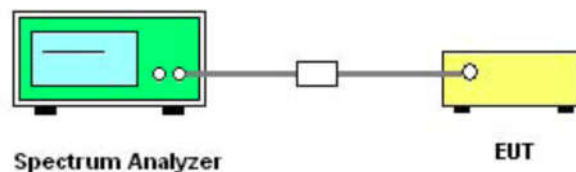
| Band | EUT Category | Limit |
|----------|---|--|
| U-NII-1 | <input type="checkbox"/> Outdoor Access Point | 1 Watt (30 dBm) (Max. e.i.r.p \leq 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon) |
| | <input type="checkbox"/> Fixed point-to-point Access device | 1 Watt (30 dBm) |
| | <input type="checkbox"/> Indoor Access Point | 1 Watt (30 dBm) |
| | <input checked="" type="checkbox"/> Mobile and portable client device | 250mW (24 dBm) |
| U-NII-2A | <input checked="" type="checkbox"/> | 250mW (24 dBm) or 11dBm+10logB* Whichever is less. |
| U-NII-2C | <input checked="" type="checkbox"/> | 250mW (24 dBm) or 11dBm+10logB* Whichever is less. |
| U-NII-3 | <input checked="" type="checkbox"/> | 1 Watt (30 dBm) |

Note: B* is the 26 dB emission bandwidth in MHz.

2.2.2. Measuring Instruments

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

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.E.2.b and ANSI C63.10-2013 Section 12.3.2.2.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Power is calculated by integrating over the spectrum of the entire 99% OBW signal using the instrument's band power measurement feature.
4. Set span to encompass the entire 99% OBW of the signal.



5. Set RBW = 1MHz, VBW \geq 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
6. Number of points in sweep $\geq 2 \times$ span / RBW.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Replace the EUT center frequency and repeat steps 3~7.

2.2.5. Test Results of Maximum Conducted Output Power

Please refer to APPENDIX A for detail

2.3. Power spectral density (PSD)

2.3.1. Limit of Power Spectral Density

FCC Part 15.407(a)

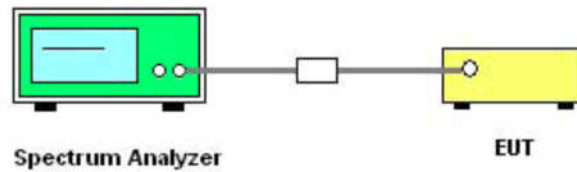
The maximum power spectral density should not exceed:

| Band | EUT Category | Limit |
|----------|---|--------------|
| U-NII-1 | <input type="checkbox"/> Outdoor Access Point | 17 dBm/MHz |
| | <input type="checkbox"/> Fixed point-to-point Access device | |
| | <input type="checkbox"/> Indoor Access Point | |
| | <input checked="" type="checkbox"/> Mobile and portable client device | 11 dBm/MHz |
| U-NII-2A | <input checked="" type="checkbox"/> | 11 dBm/MHz |
| U-NII-2C | <input checked="" type="checkbox"/> | 11 dBm/MHz |
| U-NII-3 | <input checked="" type="checkbox"/> | 30dBm/500kHz |

2.3.2. Measuring Instruments

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

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.F and ANSI C63.10-2013 Section 12.5.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set span to encompass the entire 99% OBW of the signal.
4. For U-NII-1, U-NII-2a, U-NII-2c Band: Set RBW = 1MHz, VBW \geq 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
5. For U-NII-3 Band: Set RBW = 500kHz, VBW \geq 3MHz, Sweep time = Auto, Detector = power averaging (RMS).
6. Number of points in sweep $\geq 2 \times$ span / RBW.
7. Trace average at least 100 traces in power averaging (rms) mode.
8. Use the peak search function on the instrument to find the peak of the spectrum.



9. Replace the EUT center frequency and repeat steps 3~8.

2.3.5. Test Result of Power Spectral Density

Please refer to APPENDIX A for detail

2.4. 26dB Emission Bandwidth and 99% Occupied Bandwidth

2.4.1. Limit of 26dB Emission Bandwidth and 99% Occupied Bandwidth

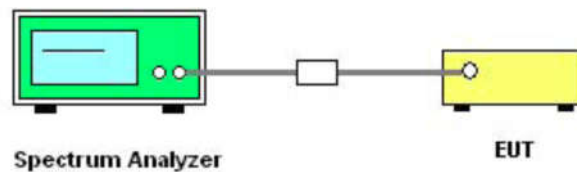
26dB Emission Bandwidth and 99% Occupied Bandwidth no Bandwidth limit.

The minimum 6dB bandwidth of U-NII-3 shall be at least 500 kHz.

2.4.2. Measuring Instruments

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

2.4.3. Test Description



2.4.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.C.D and ANSI C63.10-2013 Section 12.4.
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Use the spectrum analyzer “Channel Bandwidth” function to easurement the 26dB EBW, 6dB EBW and 99% OBW.
4. Set center frequency to the nominal EUT channel center frequency.
5. Set span = 1.5 times to 5.0 times the OBW or EBW.
6. For 26dB EBW and 99% OBW Measurement:
Set RBW = approximately 1% EBW or 1.5 times to 5.0 times the OBW, $VBW \geq 3 \times RBW$.
7. For 6dB EBW Measurement:
Set RBW =100kHz, $VBW \geq 3 \times RBW$.
8. Set Detector = Peak, Trace mode = max hold and Sweep time = auto couple.
9. Allow the trace to stabilize.
10. Replace the EUT center frequency and repeat steps 3~9.



2.4.5. Test Results of 26dB Emission Bandwidth and 99% Occupied Bandwidth

Please refer to APPENDIX A for detail

2.5. Frequency Stability

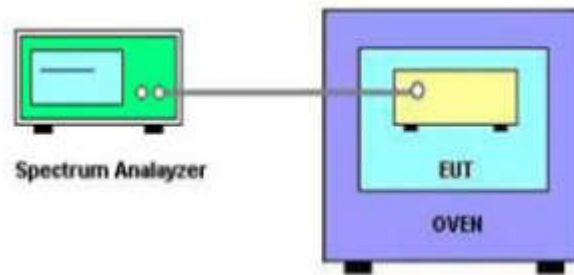
2.5.1. Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

2.5.2. Measuring Instruments

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

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows the of KDB 789033 D02 v02r01 Section II.A.3 and ANSI C63.10-2013 Section 6.8.
2. The EUT is installed in an environment test chamber with external power source, was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set the chamber to operate at 50°C and external power source to output at nominal voltage of EUT.
5. A sufficient stabilization period at each temperatures in used prior to each frequency measurement.
6. The test shall be performed under -30°C to 50°C and 85% to 115% of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
7. Replace the EUT center frequency and repeat steps 3~6.



2.5.5. Test Result of Frequency Stability

Please refer to APPENDIX A for detail

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

Radiated emission which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| FCC Part 15.407(b) | | | |
|----------------------|------------------------------|------------------|---|
| Frequency Band (MHz) | Frequency (MHz) | EIRP Limit (dBm) | Equivalent Field Strength @3m (dB $\mu\text{V/m}$) |
| 5150 - 5250 | Outside of the 5.15~5.35 GHz | -27 | 68.2 |
| 5725 - 5850 | < 5650 | -27 | 68.2 |
| | 5650~5700 | -27~10 | 68.2~105.2 |
| | 5700~5720 | 10~15.6 | 105.2~110.8 |
| | 5720~5725 | 15.6~27 | 110.8~122.2 |
| | 5850~5855 | 27~15.6 | 122.2~110.8 |
| | 5855~5875 | 15.6~10 | 110.8~105.2 |
| | 5875~5925 | 10~-27 | 105.2~68.2 |
| | > 5925 | -27 | 68.2 |

Note:

- 1) $\text{EIRP}[\text{dBm}] = \text{E}[\text{dB}\mu\text{V/m}] + 20 \log(d[\text{m}]) - 104.77$, d is the measurement distance in m.
- 2) $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2 \text{ dBuV/m}$, for $\text{EIRP}[\text{dBm}] = -27\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 105.2 \text{ dBuV/m}$, for $\text{EIRP}[\text{dBm}] = 10\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 110.8 \text{ dBuV/m}$, for $\text{EIRP}[\text{dBm}] = 15.6\text{dBm}$.
 $\text{E}[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2 = 122.2 \text{ dBuV/m}$, for $\text{EIRP}[\text{dBm}] = 27\text{dBm}$.



| Applicable To | Limit | |
|---|----------------------|-----------------|
| KDB 789033 D02 General UNII Test Procedures New Rules v02r01 | Field Strength at 3m | |
| | PK: 68.2(dBµV/m) | AV: 54 (dBµV/m) |

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

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

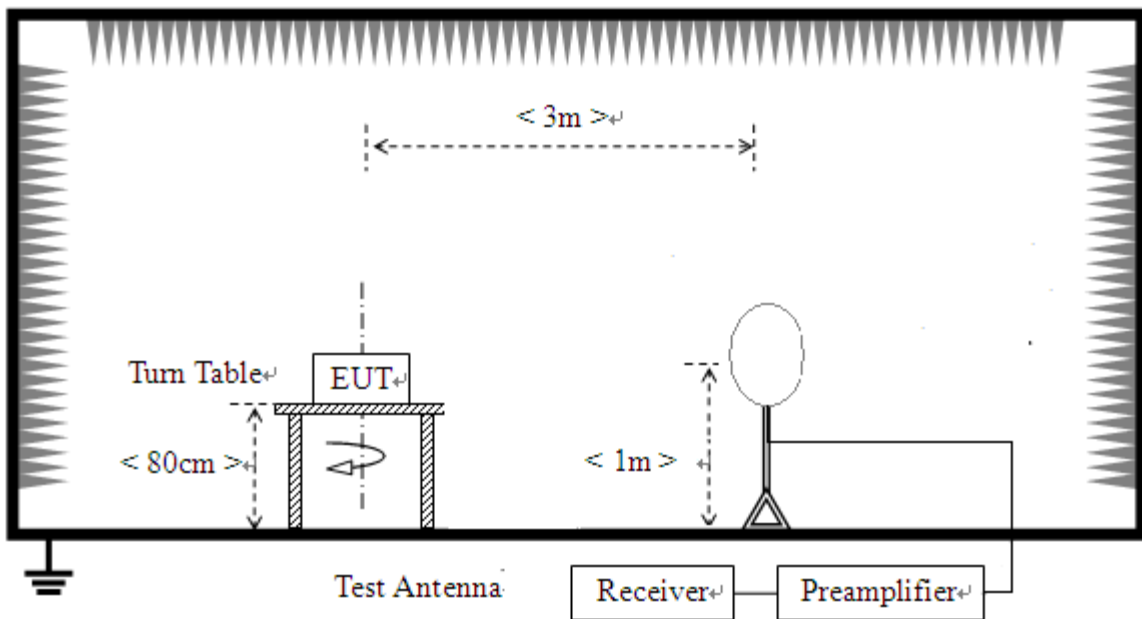
Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
²Above 38.6.

2.6.2. Measuring Instruments

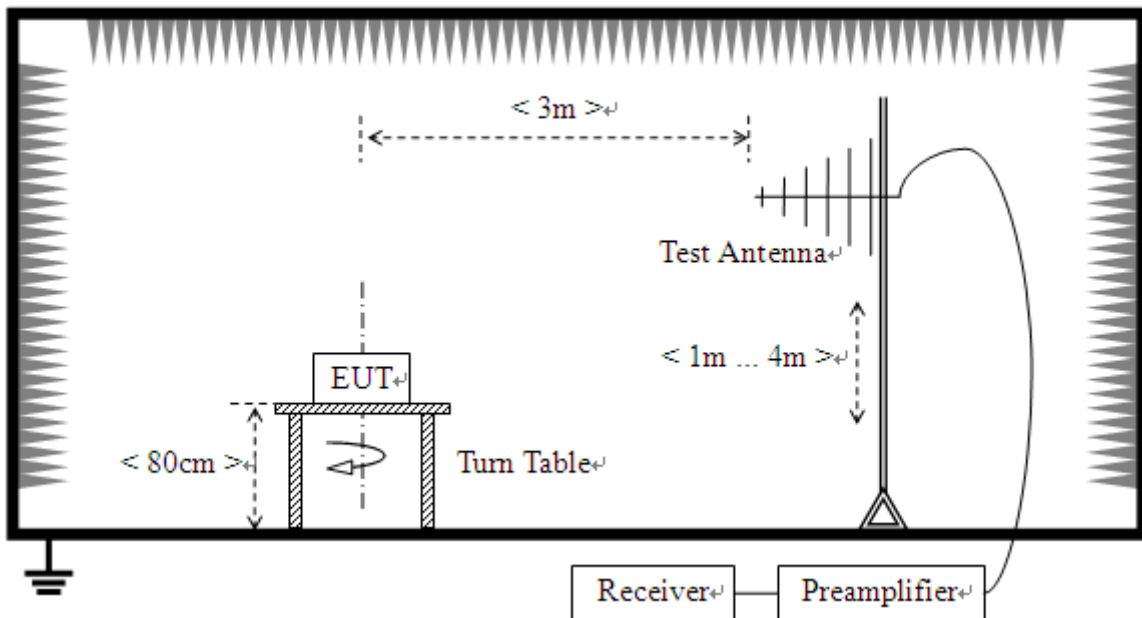
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

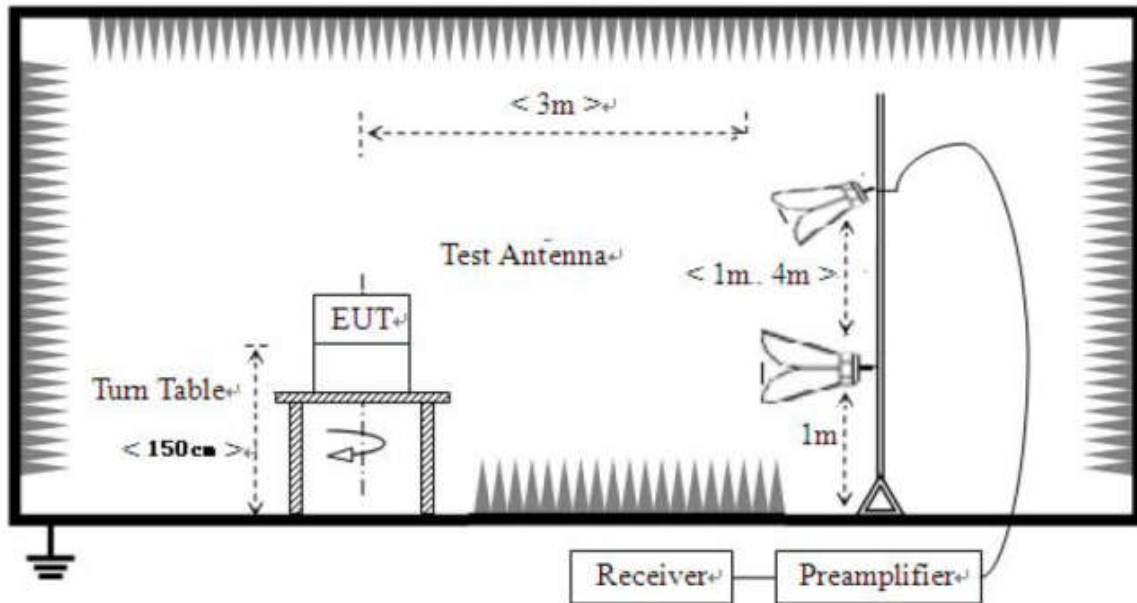
For radiated emissions from 9 kHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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 height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for

Quasi-peak detection (QP) at frequency below 1 GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. Only worst-Case mode data provide here, 802.11a (20MHz) 5180MHz for Below 1GHz.

2.6.5. Test Result of Radiated Band Edge and Spurious Emission

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

For 30MHz to 1GHz, All of the EUT Configure mode were tested and found 802.11a_5240MHz channel is the worst mode, the worst case is recorded in this report.

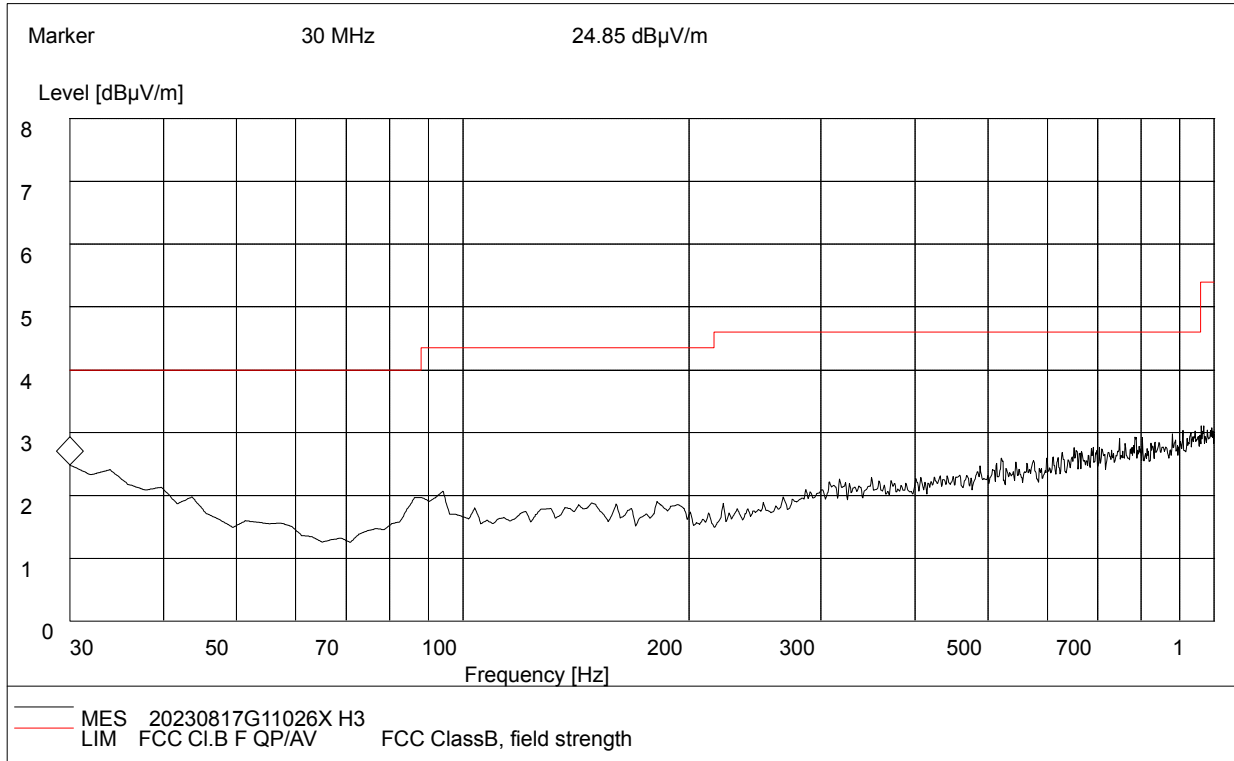
For 1GHz to 18GHz, Only worst-case data is reported.

For above 18GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



For 30MHz to 1000 MHz

| | | | |
|------------|---------------------|--------------|-----------------------------|
| Test site: | 3M anechoic chamber | Environment: | Temp: 23°C; Humi:48%;101kPa |
| Operator: | HuangChaoMing | Test Date: | 2023.09.06 |
| Test Mode: | 5G WIFI - TX | Test Result: | Pass |



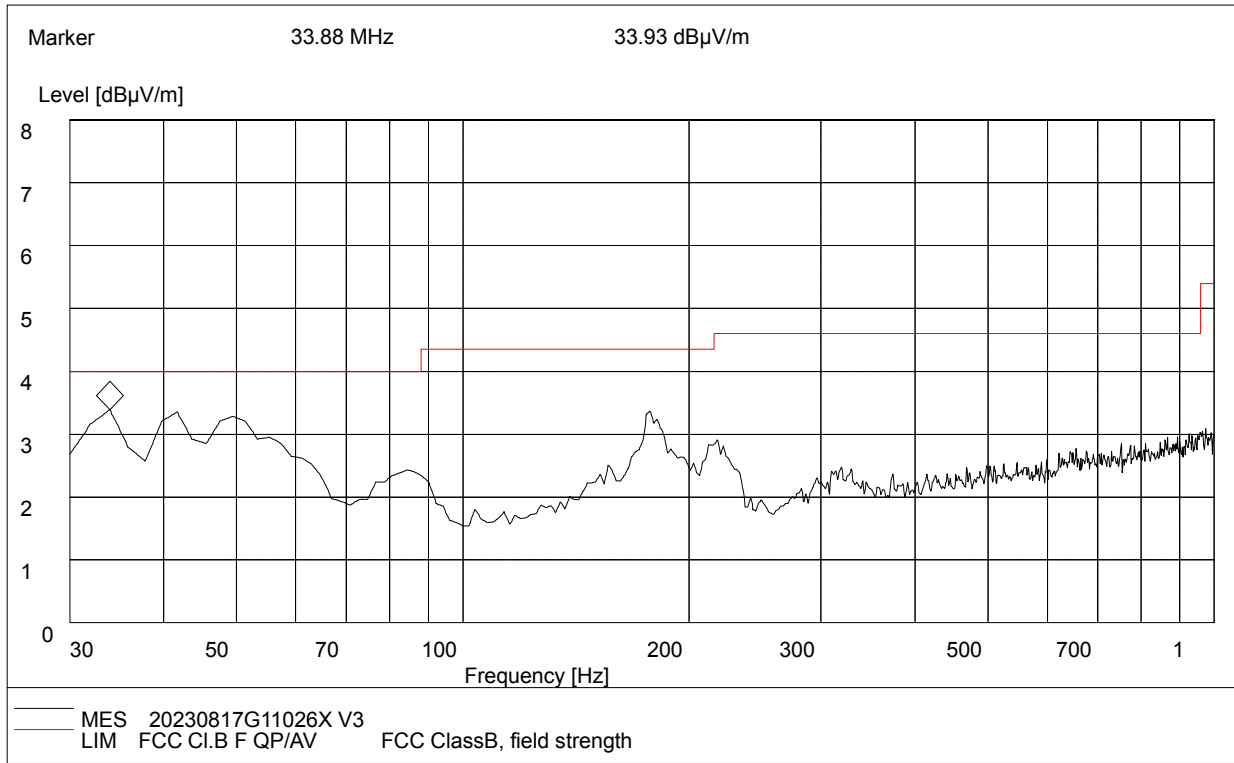
| Frequency (MHz) | QuasiPeak (dBµV/m) | Bandwidth (kHz) | Corr.Factor (dB/m) | Antenna height (cm) | Limit (dBµV/m) | Margin (dB) | Polarity |
|-----------------|--------------------|-----------------|--------------------|---------------------|----------------|-------------|------------|
| 30.12 | 23.85 | 120.0 | 19.3 | 100.0 | 40.0 | 16.15 | Horizontal |
| 39.70 | 20.33 | 120.0 | 16.7 | 100.0 | 40.0 | 19.67 | Horizontal |
| 94.02 | 19.70 | 120.0 | 9.9 | 100.0 | 43.5 | 23.80 | Horizontal |
| 181.32 | 18.01 | 120.0 | 11.2 | 100.0 | 43.5 | 25.49 | Horizontal |
| 520.82 | 24.98 | 120.0 | 19.5 | 100.0 | 46.0 | 21.02 | Horizontal |
| 784.66 | 28.30 | 120.0 | 22.1 | 100.0 | 46.0 | 17.70 | Horizontal |

Remark:

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



| | | | |
|------------|---------------------|--------------|-----------------------------|
| Test site: | 3M anechoic chamber | Environment: | Temp: 23°C; Humi:48%;101kPa |
| Operator: | HuangChaoMing | Test Date: | 2023.09.06 |
| Test Mode: | 5G WIFI - TX | Test Result: | Pass |



| Frequency (MHz) | QuasiPeak (dBµV/m) | Bandwidth (kHz) | Corr.Factor (dB/m) | Antenna height (cm) | Limit (dBµV/m) | Margin (dB) | Polarity |
|-----------------|--------------------|-----------------|--------------------|---------------------|----------------|-------------|----------|
| 33.88 | 32.93 | 120.0 | 19.3 | 100.0 | 40.0 | 7.07 | Vertical |
| 41.64 | 32.54 | 120.0 | 14.0 | 100.0 | 40.0 | 7.46 | Vertical |
| 177.44 | 32.68 | 120.0 | 11.9 | 100.0 | 43.5 | 10.82 | Vertical |
| 212.36 | 27.35 | 120.0 | 12.2 | 100.0 | 43.5 | 16.15 | Vertical |
| 218.18 | 28.10 | 120.0 | 12.2 | 100.0 | 46.0 | 17.90 | Vertical |
| 319.06 | 23.82 | 120.0 | 15.7 | 100.0 | 46.0 | 22.18 | Vertical |

Remark:

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

**For 1GHz to 18 GHz**

| U-NII-1_802.11a_5180MHz | | | | | | | | | |
|---|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5150.00 | 49.63 | 68.20 | -18.57 | 1.60 | 200 | 49.19 | 0.44 | Horizontal | Peak |
| 5150.00 | 39.80 | 54.00 | -14.20 | 1.60 | 200 | 39.36 | 0.44 | Horizontal | Average |
| 10360.00 | 54.86 | 68.20 | -13.34 | 1.60 | 200 | 44.40 | 10.46 | Horizontal | Peak |
| 10360.00 | 43.81 | 54.00 | -10.19 | 1.60 | 200 | 33.35 | 10.46 | Horizontal | Average |
| 5150.00 | 48.71 | 68.20 | -19.49 | 1.70 | 180 | 48.27 | 0.44 | Vertical | Peak |
| 5150.00 | 40.48 | 54.00 | -13.52 | 1.70 | 180 | 40.04 | 0.44 | Vertical | Average |
| 10360.00 | 53.52 | 68.20 | -14.68 | 1.70 | 180 | 43.06 | 10.46 | Vertical | Peak |
| 10360.00 | 43.77 | 54.00 | -10.23 | 1.70 | 180 | 33.31 | 10.46 | Vertical | Average |
| U-NII-1_802.11a_5220MHz | | | | | | | | | |
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 10440.00 | 54.71 | 68.20 | -13.49 | 1.60 | 200 | 43.91 | 10.80 | Horizontal | Peak |
| 10440.00 | 43.67 | 54.00 | -10.33 | 1.60 | 200 | 32.87 | 10.80 | Horizontal | Average |
| 10440.00 | 53.41 | 68.20 | -14.79 | 1.70 | 180 | 42.61 | 10.80 | Vertical | Peak |
| 10440.00 | 43.83 | 54.00 | -10.17 | 1.70 | 180 | 33.03 | 10.80 | Vertical | Average |
| U-NII-1_802.11a_5240MHz | | | | | | | | | |
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5350.00 | 48.43 | 68.20 | -19.77 | 1.60 | 200 | 48.18 | 0.25 | Horizontal | Peak |
| 5350.00 | 39.09 | 54.00 | -14.91 | 1.60 | 200 | 38.84 | 0.25 | Horizontal | Average |
| 10480.00 | 53.58 | 68.20 | -14.62 | 1.60 | 200 | 42.58 | 11.00 | Horizontal | Peak |
| 10480.00 | 44.45 | 54.00 | -9.55 | 1.60 | 200 | 33.45 | 11.00 | Horizontal | Average |
| 5350.00 | 47.03 | 68.20 | -21.17 | 1.70 | 180 | 46.78 | 0.25 | Vertical | Peak |
| 5350.00 | 38.93 | 54.00 | -15.07 | 1.70 | 180 | 38.68 | 0.25 | Vertical | Average |
| 10480.00 | 55.06 | 68.20 | -13.14 | 1.70 | 180 | 44.06 | 11.00 | Vertical | Peak |
| 10480.00 | 44.41 | 54.00 | -9.59 | 1.70 | 180 | 33.41 | 11.00 | Vertical | Average |
| Remark: | | | | | | | | | |
| 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) | | | | | | | | | |
| 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) | | | | | | | | | |
| 3. Margin value = Emission Level – Limit value | | | | | | | | | |
| 4. The emission levels of other frequencies are very lower than the limit and not show in test report. | | | | | | | | | |
| 5. Only the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded. | | | | | | | | | |



| U-NII-1_802.11n-HT40_5190MHz | | | | | | | | | |
|------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5150.00 | 49.77 | 68.20 | -18.43 | 1.60 | 200 | 49.33 | 0.44 | Horizontal | Peak |
| 5150.00 | 39.92 | 54.00 | -14.08 | 1.60 | 200 | 39.48 | 0.44 | Horizontal | Average |
| 10380.00 | 54.40 | 68.20 | -13.80 | 1.60 | 200 | 43.87 | 10.53 | Horizontal | Peak |
| 10380.00 | 43.31 | 54.00 | -10.69 | 1.60 | 200 | 32.78 | 10.53 | Horizontal | Average |
| 5150.00 | 48.57 | 68.20 | -19.63 | 1.70 | 180 | 48.13 | 0.44 | Vertical | Peak |
| 5150.00 | 40.22 | 54.00 | -13.78 | 1.70 | 180 | 39.78 | 0.44 | Vertical | Average |
| 10380.00 | 53.60 | 68.20 | -14.60 | 1.70 | 180 | 43.07 | 10.53 | Vertical | Peak |
| 10380.00 | 43.37 | 54.00 | -10.63 | 1.70 | 180 | 32.84 | 10.53 | Vertical | Average |

| U-NII-1_802.11n-HT40_5230MHz | | | | | | | | | |
|------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5350.00 | 48.43 | 68.20 | -19.77 | 1.60 | 200 | 48.18 | 0.25 | Horizontal | Peak |
| 5350.00 | 38.82 | 54.00 | -15.18 | 1.60 | 200 | 38.57 | 0.25 | Horizontal | Average |
| 10460.00 | 53.65 | 68.20 | -14.55 | 1.60 | 200 | 42.74 | 10.91 | Horizontal | Peak |
| 10460.00 | 44.73 | 54.00 | -9.27 | 1.60 | 200 | 33.82 | 10.91 | Horizontal | Average |
| 5350.00 | 47.20 | 68.20 | -21.00 | 1.70 | 180 | 46.95 | 0.25 | Vertical | Peak |
| 5350.00 | 38.53 | 54.00 | -15.47 | 1.70 | 180 | 38.28 | 0.25 | Vertical | Average |
| 10460.00 | 55.49 | 68.20 | -12.71 | 1.70 | 180 | 44.58 | 10.91 | Vertical | Peak |
| 10460.00 | 44.85 | 54.00 | -9.15 | 1.70 | 180 | 33.94 | 10.91 | Vertical | Average |

Remark:

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



| U-NII-1_802.11ac-VHT80_5210MHz | | | | | | | | | |
|--------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5150.00 | 49.93 | 68.20 | -18.27 | 1.60 | 200 | 49.49 | 0.44 | Horizontal | Peak |
| 5150.00 | 39.83 | 54.00 | -14.17 | 1.60 | 200 | 39.39 | 0.44 | Horizontal | Average |
| 5350.00 | 48.32 | 68.20 | -19.88 | 1.60 | 200 | 48.07 | 0.25 | Horizontal | Peak |
| 5350.00 | 39.19 | 54.00 | -14.81 | 1.60 | 200 | 38.94 | 0.25 | Horizontal | Average |
| 10420.00 | 53.97 | 68.20 | -14.23 | 1.60 | 200 | 43.26 | 10.71 | Horizontal | Peak |
| 10420.00 | 44.23 | 54.00 | -9.77 | 1.60 | 200 | 33.52 | 10.71 | Horizontal | Average |
| 5150.00 | 49.14 | 68.20 | -19.06 | 1.70 | 180 | 48.70 | 0.44 | Vertical | Peak |
| 5150.00 | 40.76 | 54.00 | -13.24 | 1.70 | 180 | 40.32 | 0.44 | Vertical | Average |
| 5350.00 | 46.54 | 68.20 | -21.66 | 1.70 | 180 | 46.29 | 0.25 | Vertical | Peak |
| 5350.00 | 39.24 | 54.00 | -14.76 | 1.70 | 180 | 38.99 | 0.25 | Vertical | Average |
| 10420.00 | 55.18 | 68.20 | -13.02 | 1.70 | 180 | 44.47 | 10.71 | Vertical | Peak |
| 10420.00 | 44.08 | 54.00 | -9.92 | 1.70 | 180 | 33.37 | 10.71 | Vertical | Average |

Remark:

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



| U-NII-2A_802.11a_5260MHz | | | | | | | | | |
|--------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5150.00 | 50.02 | 68.20 | -18.18 | 1.60 | 200 | 49.58 | 0.44 | Horizontal | Peak |
| 5150.00 | 39.93 | 54.00 | -14.07 | 1.60 | 200 | 39.49 | 0.44 | Horizontal | Average |
| 10520.00 | 54.58 | 68.20 | -13.62 | 1.60 | 200 | 43.40 | 11.18 | Horizontal | Peak |
| 10520.00 | 43.34 | 54.00 | -10.66 | 1.60 | 200 | 32.16 | 11.18 | Horizontal | Average |
| 5150.00 | 48.62 | 68.20 | -19.58 | 1.70 | 180 | 48.18 | 0.44 | Vertical | Peak |
| 5150.00 | 40.02 | 54.00 | -13.98 | 1.70 | 180 | 39.58 | 0.44 | Vertical | Average |
| 10520.00 | 53.38 | 68.20 | -14.82 | 1.70 | 180 | 42.20 | 11.18 | Vertical | Peak |
| 10520.00 | 43.64 | 54.00 | -10.36 | 1.70 | 180 | 32.46 | 11.18 | Vertical | Average |

| U-NII-2A_802.11a_5300MHz | | | | | | | | | |
|--------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 10600.00 | 54.67 | 68.20 | -13.53 | 1.60 | 200 | 43.15 | 11.52 | Horizontal | Peak |
| 10600.00 | 43.53 | 54.00 | -10.47 | 1.60 | 200 | 32.01 | 11.52 | Horizontal | Average |
| 10600.00 | 53.42 | 68.20 | -14.78 | 1.70 | 180 | 41.90 | 11.52 | Vertical | Peak |
| 10600.00 | 43.85 | 54.00 | -10.15 | 1.70 | 180 | 32.33 | 11.52 | Vertical | Average |

| U-NII-2A_802.11a_5320MHz | | | | | | | | | |
|--------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5350.00 | 48.79 | 68.20 | -19.41 | 1.60 | 200 | 48.54 | 0.25 | Horizontal | Peak |
| 5350.00 | 39.17 | 54.00 | -14.83 | 1.60 | 200 | 38.92 | 0.25 | Horizontal | Average |
| 10640.00 | 53.77 | 68.20 | -14.43 | 1.60 | 200 | 42.45 | 11.32 | Horizontal | Peak |
| 10640.00 | 44.84 | 54.00 | -9.16 | 1.60 | 200 | 33.52 | 11.32 | Horizontal | Average |
| 5350.00 | 46.80 | 68.20 | -21.40 | 1.70 | 180 | 46.55 | 0.25 | Vertical | Peak |
| 5350.00 | 39.09 | 54.00 | -14.91 | 1.70 | 180 | 38.84 | 0.25 | Vertical | Average |
| 10640.00 | 55.55 | 68.20 | -12.65 | 1.70 | 180 | 44.23 | 11.32 | Vertical | Peak |
| 10640.00 | 44.17 | 54.00 | -9.83 | 1.70 | 180 | 32.85 | 11.32 | Vertical | Average |

Remark:

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

**U-NII-2A_802.11n-HT40_5270MHz**

| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| 5150.00 | 50.37 | 68.20 | -17.83 | 1.60 | 200 | 49.93 | 0.44 | Horizontal | Peak |
| 5150.00 | 39.46 | 54.00 | -14.54 | 1.60 | 200 | 39.02 | 0.44 | Horizontal | Average |
| 10540.00 | 54.70 | 68.20 | -13.50 | 1.60 | 200 | 43.44 | 11.26 | Horizontal | Peak |
| 10540.00 | 43.44 | 54.00 | -10.56 | 1.60 | 200 | 32.18 | 11.26 | Horizontal | Average |
| 5150.00 | 48.35 | 68.20 | -19.85 | 1.70 | 180 | 47.91 | 0.44 | Vertical | Peak |
| 5150.00 | 39.63 | 54.00 | -14.37 | 1.70 | 180 | 39.19 | 0.44 | Vertical | Average |
| 10540.00 | 53.07 | 68.20 | -15.13 | 1.70 | 180 | 41.81 | 11.26 | Vertical | Peak |
| 10540.00 | 44.09 | 54.00 | -9.91 | 1.70 | 180 | 32.83 | 11.26 | Vertical | Average |

U-NII-2A_802.11n-HT40_5310MHz

| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| 5350.00 | 49.08 | 68.20 | -19.12 | 1.60 | 200 | 48.83 | 0.25 | Horizontal | Peak |
| 5350.00 | 38.94 | 54.00 | -15.06 | 1.60 | 200 | 38.69 | 0.25 | Horizontal | Average |
| 10620.00 | 54.13 | 68.20 | -14.07 | 1.60 | 200 | 42.72 | 11.41 | Horizontal | Peak |
| 10620.00 | 44.65 | 54.00 | -9.35 | 1.60 | 200 | 33.24 | 11.41 | Horizontal | Average |
| 5350.00 | 47.26 | 68.20 | -20.94 | 1.70 | 180 | 47.01 | 0.25 | Vertical | Peak |
| 5350.00 | 38.93 | 54.00 | -15.07 | 1.70 | 180 | 38.68 | 0.25 | Vertical | Average |
| 10620.00 | 55.78 | 68.20 | -12.42 | 1.70 | 180 | 44.37 | 11.41 | Vertical | Peak |
| 10620.00 | 44.08 | 54.00 | -9.92 | 1.70 | 180 | 32.67 | 11.41 | Vertical | Average |

Remark:

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



| U-NII-2A_802.11ac-VHT80_5290MHz | | | | | | | | | |
|---------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5150.00 | 49.71 | 68.20 | -18.49 | 1.60 | 200 | 49.27 | 0.44 | Horizontal | Peak |
| 5150.00 | 39.42 | 54.00 | -14.58 | 1.60 | 200 | 38.98 | 0.44 | Horizontal | Average |
| 5350.00 | 48.50 | 68.20 | -19.70 | 1.60 | 200 | 48.25 | 0.25 | Horizontal | Peak |
| 5350.00 | 38.83 | 54.00 | -15.17 | 1.60 | 200 | 38.58 | 0.25 | Horizontal | Average |
| 10580.00 | 54.03 | 68.20 | -14.17 | 1.60 | 200 | 42.59 | 11.44 | Horizontal | Peak |
| 10580.00 | 43.88 | 54.00 | -10.12 | 1.60 | 200 | 32.44 | 11.44 | Horizontal | Average |
| 5150.00 | 48.89 | 68.20 | -19.31 | 1.70 | 180 | 48.45 | 0.44 | Vertical | Peak |
| 5150.00 | 40.76 | 54.00 | -13.24 | 1.70 | 180 | 40.32 | 0.44 | Vertical | Average |
| 5350.00 | 47.02 | 68.20 | -21.18 | 1.70 | 180 | 46.77 | 0.25 | Vertical | Peak |
| 5350.00 | 39.28 | 54.00 | -14.72 | 1.70 | 180 | 39.03 | 0.25 | Vertical | Average |
| 10580.00 | 54.78 | 68.20 | -13.42 | 1.70 | 180 | 43.34 | 11.44 | Vertical | Peak |
| 10580.00 | 44.50 | 54.00 | -9.50 | 1.70 | 180 | 33.06 | 11.44 | Vertical | Average |

Remark:

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



| U-NII-2C_802.11a_5500MHz | | | | | | | | | |
|--------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5470.00 | 51.82 | 68.20 | -16.38 | 1.60 | 200 | 51.86 | -0.04 | Horizontal | Peak |
| 5470.00 | 40.97 | 54.00 | -13.03 | 1.60 | 200 | 41.01 | -0.04 | Horizontal | Average |
| 11000.00 | 54.63 | 68.20 | -13.57 | 1.60 | 200 | 43.21 | 11.42 | Horizontal | Peak |
| 11000.00 | 43.49 | 54.00 | -10.51 | 1.60 | 200 | 32.07 | 11.42 | Horizontal | Average |
| 5470.00 | 50.69 | 68.20 | -17.51 | 1.70 | 180 | 50.73 | -0.04 | Vertical | Peak |
| 5470.00 | 41.52 | 54.00 | -12.48 | 1.70 | 180 | 41.56 | -0.04 | Vertical | Average |
| 11000.00 | 53.58 | 68.20 | -14.62 | 1.70 | 180 | 42.16 | 11.42 | Vertical | Peak |
| 11000.00 | 43.74 | 54.00 | -10.26 | 1.70 | 180 | 32.32 | 11.42 | Vertical | Average |

| U-NII-2C_802.11a_5600MHz | | | | | | | | | |
|--------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 11200.00 | 54.56 | 68.20 | -13.64 | 1.60 | 200 | 43.59 | 10.97 | Horizontal | Peak |
| 11200.00 | 43.40 | 54.00 | -10.60 | 1.60 | 200 | 32.43 | 10.97 | Horizontal | Average |
| 11200.00 | 53.49 | 68.20 | -14.71 | 1.70 | 180 | 42.52 | 10.97 | Vertical | Peak |
| 11200.00 | 44.06 | 54.00 | -9.94 | 1.70 | 180 | 33.09 | 10.97 | Vertical | Average |

| U-NII-2C_802.11a_5700MHz | | | | | | | | | |
|--------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5725.00 | 49.69 | 68.20 | -18.51 | 1.60 | 200 | 48.39 | 1.30 | Horizontal | Peak |
| 5725.00 | 40.34 | 54.00 | -13.66 | 1.60 | 200 | 39.04 | 1.30 | Horizontal | Average |
| 11400.00 | 54.74 | 68.20 | -13.46 | 1.60 | 200 | 43.27 | 11.47 | Horizontal | Peak |
| 11400.00 | 43.69 | 54.00 | -10.31 | 1.60 | 200 | 32.22 | 11.47 | Horizontal | Average |
| 5725.00 | 49.62 | 68.20 | -18.58 | 1.70 | 180 | 48.32 | 1.30 | Vertical | Peak |
| 5725.00 | 40.24 | 54.00 | -13.76 | 1.70 | 180 | 38.94 | 1.30 | Vertical | Average |
| 11400.00 | 53.55 | 68.20 | -14.65 | 1.70 | 180 | 42.08 | 11.47 | Vertical | Peak |
| 11400.00 | 44.24 | 54.00 | -9.76 | 1.70 | 180 | 32.77 | 11.47 | Vertical | Average |

Remark:

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



| U-NII-2C_802.11n-HT40_5510MHz | | | | | | | | | |
|-------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5470.00 | 51.52 | 68.20 | -16.68 | 1.60 | 200 | 51.56 | -0.04 | Horizontal | Peak |
| 5470.00 | 41.15 | 54.00 | -12.85 | 1.60 | 200 | 41.19 | -0.04 | Horizontal | Average |
| 11020.00 | 54.15 | 68.20 | -14.05 | 1.60 | 200 | 42.69 | 11.46 | Horizontal | Peak |
| 11020.00 | 43.95 | 54.00 | -10.05 | 1.60 | 200 | 32.49 | 11.46 | Horizontal | Average |
| 5470.00 | 51.03 | 68.20 | -17.17 | 1.70 | 180 | 51.07 | -0.04 | Vertical | Peak |
| 5470.00 | 41.49 | 54.00 | -12.51 | 1.70 | 180 | 41.53 | -0.04 | Vertical | Average |
| 11020.00 | 53.26 | 68.20 | -14.94 | 1.70 | 180 | 41.80 | 11.46 | Vertical | Peak |
| 11020.00 | 43.68 | 54.00 | -10.32 | 1.70 | 180 | 32.22 | 11.46 | Vertical | Average |

| U-NII-2C_802.11n-HT40_5590MHz | | | | | | | | | |
|-------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 11180.00 | 54.57 | 68.20 | -13.63 | 1.60 | 200 | 43.48 | 11.09 | Horizontal | Peak |
| 11180.00 | 43.41 | 54.00 | -10.59 | 1.60 | 200 | 32.32 | 11.09 | Horizontal | Average |
| 11180.00 | 53.17 | 68.20 | -15.03 | 1.70 | 180 | 42.08 | 11.09 | Vertical | Peak |
| 11180.00 | 44.13 | 54.00 | -9.87 | 1.70 | 180 | 33.04 | 11.09 | Vertical | Average |

| U-NII-2C_802.11n-HT40_5670MHz | | | | | | | | | |
|-------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5725.00 | 49.65 | 68.20 | -18.55 | 1.60 | 200 | 48.35 | 1.30 | Horizontal | Peak |
| 5725.00 | 40.76 | 54.00 | -13.24 | 1.60 | 200 | 39.46 | 1.30 | Horizontal | Average |
| 11340.00 | 55.00 | 68.20 | -13.20 | 1.60 | 200 | 43.58 | 11.42 | Horizontal | Peak |
| 11340.00 | 44.16 | 54.00 | -9.84 | 1.60 | 200 | 32.74 | 11.42 | Horizontal | Average |
| 5725.00 | 49.48 | 68.20 | -18.72 | 1.70 | 180 | 48.18 | 1.30 | Vertical | Peak |
| 5725.00 | 39.74 | 54.00 | -14.26 | 1.70 | 180 | 38.44 | 1.30 | Vertical | Average |
| 11340.00 | 53.11 | 68.20 | -15.09 | 1.70 | 180 | 41.69 | 11.42 | Vertical | Peak |
| 11340.00 | 43.81 | 54.00 | -10.19 | 1.70 | 180 | 32.39 | 11.42 | Vertical | Average |

Remark:

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



| U-NII-2C_802.11ac-VHT80_5530MHz | | | | | | | | | |
|---------------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5470.00 | 51.20 | 68.20 | -17.00 | 1.60 | 200 | 51.24 | -0.04 | Horizontal | Peak |
| 5470.00 | 41.30 | 54.00 | -12.70 | 1.60 | 200 | 41.34 | -0.04 | Horizontal | Average |
| 11060.00 | 53.92 | 68.20 | -14.28 | 1.60 | 200 | 42.39 | 11.53 | Horizontal | Peak |
| 11060.00 | 44.17 | 54.00 | -9.83 | 1.60 | 200 | 32.64 | 11.53 | Horizontal | Average |
| 5470.00 | 50.88 | 68.20 | -17.32 | 1.70 | 180 | 50.92 | -0.04 | Vertical | Peak |
| 5470.00 | 41.45 | 54.00 | -12.55 | 1.70 | 180 | 41.49 | -0.04 | Vertical | Average |
| 11060.00 | 53.14 | 68.20 | -15.06 | 1.70 | 180 | 41.61 | 11.53 | Vertical | Peak |
| 11060.00 | 43.60 | 54.00 | -10.40 | 1.70 | 180 | 32.07 | 11.53 | Vertical | Average |

| U-NII-2C_802.11ac-VHT80_5610MHz | | | | | | | | | |
|---------------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5725.00 | 49.99 | 68.20 | -18.21 | 1.60 | 200 | 48.69 | 1.30 | Horizontal | Peak |
| 5725.00 | 40.66 | 54.00 | -13.34 | 1.60 | 200 | 39.36 | 1.30 | Horizontal | Average |
| 11220.00 | 55.22 | 68.20 | -12.98 | 1.60 | 200 | 44.17 | 11.05 | Horizontal | Peak |
| 11220.00 | 43.66 | 54.00 | -10.34 | 1.60 | 200 | 32.61 | 11.05 | Horizontal | Average |
| 5725.00 | 49.56 | 68.20 | -18.64 | 1.70 | 180 | 48.26 | 1.30 | Vertical | Peak |
| 5725.00 | 40.06 | 54.00 | -13.94 | 1.70 | 180 | 38.76 | 1.30 | Vertical | Average |
| 11220.00 | 53.26 | 68.20 | -14.94 | 1.70 | 180 | 42.21 | 11.05 | Vertical | Peak |
| 11220.00 | 43.78 | 54.00 | -10.22 | 1.70 | 180 | 32.73 | 11.05 | Vertical | Average |

Remark:

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



| U-NII-3_802.11a_5745MHz | | | | | | | | | |
|-------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5650.00 | 52.17 | 68.20 | -16.03 | 1.60 | 200 | 51.37 | 0.80 | Horizontal | Peak |
| 5700.00 | 53.67 | 105.20 | -51.53 | 1.60 | 200 | 52.43 | 1.24 | Horizontal | Peak |
| 5720.00 | 52.49 | 110.80 | -58.31 | 1.60 | 200 | 51.21 | 1.28 | Horizontal | Peak |
| 5725.00 | 54.36 | 122.20 | -67.84 | 1.60 | 200 | 53.06 | 1.30 | Horizontal | Peak |
| 11490.00 | 52.98 | 68.20 | -15.22 | 1.60 | 200 | 41.43 | 11.55 | Horizontal | Peak |
| 11490.00 | 43.68 | 54.00 | -10.32 | 1.60 | 200 | 32.13 | 11.55 | Horizontal | Average |
| 5650.00 | 52.11 | 68.20 | -16.09 | 1.70 | 180 | 51.31 | 0.80 | Vertical | Peak |
| 5700.00 | 54.40 | 105.20 | -50.80 | 1.70 | 180 | 53.16 | 1.24 | Vertical | Peak |
| 5720.00 | 53.29 | 110.80 | -57.51 | 1.70 | 180 | 52.01 | 1.28 | Vertical | Peak |
| 5725.00 | 52.86 | 122.20 | -69.34 | 1.70 | 180 | 51.56 | 1.30 | Vertical | Peak |
| 11490.00 | 53.89 | 68.20 | -14.31 | 1.70 | 180 | 42.34 | 11.55 | Vertical | Peak |
| 11490.00 | 43.72 | 54.00 | -10.28 | 1.70 | 180 | 32.17 | 11.55 | Vertical | Average |

| U-NII-3_802.11a_5825MHz | | | | | | | | | |
|-------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5850.00 | 52.15 | 122.20 | -70.05 | 1.60 | 200 | 50.33 | 1.82 | Horizontal | Peak |
| 5855.00 | 52.70 | 110.80 | -58.10 | 1.60 | 200 | 50.85 | 1.85 | Horizontal | Peak |
| 5875.00 | 53.48 | 105.20 | -51.72 | 1.60 | 200 | 51.50 | 1.98 | Horizontal | Peak |
| 5925.00 | 53.24 | 68.20 | -14.96 | 1.60 | 200 | 51.12 | 2.12 | Horizontal | Peak |
| 11650.00 | 52.75 | 68.20 | -15.45 | 1.60 | 200 | 41.11 | 11.64 | Horizontal | Peak |
| 11650.00 | 43.42 | 54.00 | -10.58 | 1.60 | 200 | 31.78 | 11.64 | Horizontal | Average |
| 5850.00 | 52.71 | 122.20 | -69.49 | 1.70 | 180 | 50.89 | 1.82 | Vertical | Peak |
| 5855.00 | 52.36 | 110.80 | -58.44 | 1.70 | 180 | 50.51 | 1.85 | Vertical | Peak |
| 5875.00 | 52.73 | 105.20 | -52.47 | 1.70 | 180 | 50.75 | 1.98 | Vertical | Peak |
| 5925.00 | 53.06 | 68.20 | -15.14 | 1.70 | 180 | 50.94 | 2.12 | Vertical | Peak |
| 11650.00 | 53.68 | 68.20 | -14.52 | 1.70 | 180 | 42.04 | 11.64 | Vertical | Peak |
| 11650.00 | 43.41 | 54.00 | -10.59 | 1.70 | 180 | 31.77 | 11.64 | Vertical | Average |

Remark:

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



| U-NII-3_802.11n-HT40_5755MHz | | | | | | | | | |
|------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5650.00 | 52.31 | 68.20 | -15.89 | 1.60 | 200 | 51.51 | 0.80 | Horizontal | Peak |
| 5700.00 | 53.68 | 105.20 | -51.52 | 1.60 | 200 | 52.44 | 1.24 | Horizontal | Peak |
| 5720.00 | 52.05 | 110.80 | -58.75 | 1.60 | 200 | 50.77 | 1.28 | Horizontal | Peak |
| 5725.00 | 54.00 | 122.20 | -68.20 | 1.60 | 200 | 52.70 | 1.30 | Horizontal | Peak |
| 11510.00 | 52.64 | 68.20 | -15.56 | 1.60 | 200 | 41.08 | 11.56 | Horizontal | Peak |
| 11510.00 | 43.84 | 54.00 | -10.16 | 1.60 | 200 | 32.28 | 11.56 | Horizontal | Average |
| 5650.00 | 52.15 | 68.20 | -16.05 | 1.70 | 180 | 51.35 | 0.80 | Vertical | Peak |
| 5700.00 | 54.60 | 105.20 | -50.60 | 1.70 | 180 | 53.36 | 1.24 | Vertical | Peak |
| 5720.00 | 52.84 | 110.80 | -57.96 | 1.70 | 180 | 51.56 | 1.28 | Vertical | Peak |
| 5725.00 | 53.34 | 122.20 | -68.86 | 1.70 | 180 | 52.04 | 1.30 | Vertical | Peak |
| 11510.00 | 54.07 | 68.20 | -14.13 | 1.70 | 180 | 42.51 | 11.56 | Vertical | Peak |
| 11510.00 | 43.58 | 54.00 | -10.42 | 1.70 | 180 | 32.02 | 11.56 | Vertical | Average |

| U-NII-3_802.11n-HT40_5795MHz | | | | | | | | | |
|------------------------------|------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emssion Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5850.00 | 51.80 | 122.20 | -70.40 | 1.60 | 200 | 49.98 | 1.82 | Horizontal | Peak |
| 5855.00 | 53.08 | 110.80 | -57.72 | 1.60 | 200 | 51.23 | 1.85 | Horizontal | Peak |
| 5875.00 | 53.20 | 105.20 | -52.00 | 1.60 | 200 | 51.22 | 1.98 | Horizontal | Peak |
| 5925.00 | 53.16 | 68.20 | -15.04 | 1.60 | 200 | 51.04 | 2.12 | Horizontal | Peak |
| 11590.00 | 52.55 | 68.20 | -15.65 | 1.60 | 200 | 41.04 | 11.51 | Horizontal | Peak |
| 11590.00 | 43.87 | 54.00 | -10.13 | 1.60 | 200 | 32.36 | 11.51 | Horizontal | Average |
| 5850.00 | 52.99 | 122.20 | -69.21 | 1.70 | 180 | 51.17 | 1.82 | Vertical | Peak |
| 5855.00 | 52.65 | 110.80 | -58.15 | 1.70 | 180 | 50.80 | 1.85 | Vertical | Peak |
| 5875.00 | 52.75 | 105.20 | -52.45 | 1.70 | 180 | 50.77 | 1.98 | Vertical | Peak |
| 5925.00 | 52.88 | 68.20 | -15.32 | 1.70 | 180 | 50.76 | 2.12 | Vertical | Peak |
| 11590.00 | 53.84 | 68.20 | -14.36 | 1.70 | 180 | 42.33 | 11.51 | Vertical | Peak |
| 11590.00 | 43.69 | 54.00 | -10.31 | 1.70 | 180 | 32.18 | 11.51 | Vertical | Average |

Remark:

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



| U-NII-3_802.11a_5875MHz | | | | | | | | | |
|-------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 11570.00 | 52.45 | 68.20 | -15.75 | 1.60 | 200 | 40.93 | 11.52 | Horizontal | Peak |
| 11570.00 | 43.53 | 54.00 | -10.47 | 1.60 | 200 | 32.01 | 11.52 | Horizontal | Average |
| 11570.00 | 53.74 | 68.20 | -14.46 | 1.70 | 180 | 42.22 | 11.52 | Vertical | Peak |
| 11570.00 | 43.81 | 54.00 | -10.19 | 1.70 | 180 | 32.29 | 11.52 | Vertical | Average |

| U-NII-3_802.11ac-VHT80_5775MHz | | | | | | | | | |
|--------------------------------|-------------------------|----------------|-------------|--------------------|----------------------|--------------------|--------------------------|------------|----------|
| Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV/m) | Correction Factor (dB/m) | Polarity | Detector |
| 5650.00 | 52.06 | 68.20 | -16.14 | 1.60 | 200 | 51.26 | 0.80 | Horizontal | Peak |
| 5700.00 | 54.04 | 105.20 | -51.16 | 1.60 | 200 | 52.80 | 1.24 | Horizontal | Peak |
| 5720.00 | 52.29 | 110.80 | -58.51 | 1.60 | 200 | 51.01 | 1.28 | Horizontal | Peak |
| 5725.00 | 54.61 | 122.20 | -67.59 | 1.60 | 200 | 53.31 | 1.30 | Horizontal | Peak |
| 5850.00 | 52.58 | 122.20 | -69.62 | 1.60 | 200 | 50.76 | 1.82 | Horizontal | Peak |
| 5855.00 | 52.62 | 110.80 | -58.18 | 1.60 | 200 | 50.77 | 1.85 | Horizontal | Peak |
| 5875.00 | 53.07 | 105.20 | -52.13 | 1.60 | 200 | 51.09 | 1.98 | Horizontal | Peak |
| 5925.00 | 52.68 | 68.20 | -15.52 | 1.60 | 200 | 50.56 | 2.12 | Horizontal | Peak |
| 11550.00 | 53.72 | 69.20 | -15.48 | 1.60 | 200 | 42.18 | 11.54 | Horizontal | Peak |
| 11550.00 | 44.10 | 70.20 | -26.10 | 1.60 | 200 | 32.56 | 11.54 | Horizontal | Average |
| 5650.00 | 51.88 | 68.20 | -16.32 | 1.70 | 180 | 51.08 | 0.80 | Vertical | Peak |
| 5700.00 | 53.90 | 105.20 | -51.30 | 1.70 | 180 | 52.66 | 1.24 | Vertical | Peak |
| 5720.00 | 53.63 | 110.80 | -57.17 | 1.70 | 180 | 52.35 | 1.28 | Vertical | Peak |
| 5725.00 | 52.40 | 122.20 | -69.80 | 1.70 | 180 | 51.10 | 1.30 | Vertical | Peak |
| 5850.00 | 51.90 | 122.20 | -68.48 | 1.70 | 180 | 51.90 | 1.82 | Vertical | Peak |
| 5855.00 | 52.82 | 110.80 | -66.70 | 1.70 | 180 | 42.25 | 1.85 | Vertical | Peak |
| 5875.00 | 53.93 | 105.20 | -51.27 | 1.70 | 180 | 51.95 | 1.98 | Vertical | Peak |
| 5925.00 | 52.96 | 68.20 | -15.24 | 1.70 | 180 | 50.84 | 2.12 | Vertical | Peak |
| 11550.00 | 52.44 | 68.20 | -15.76 | 1.70 | 180 | 40.90 | 11.54 | Vertical | Peak |
| 11550.00 | 42.93 | 54.00 | -11.07 | 1.70 | 180 | 31.39 | 11.54 | Vertical | Average |

Remark:

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

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

FCC Part 15.207:

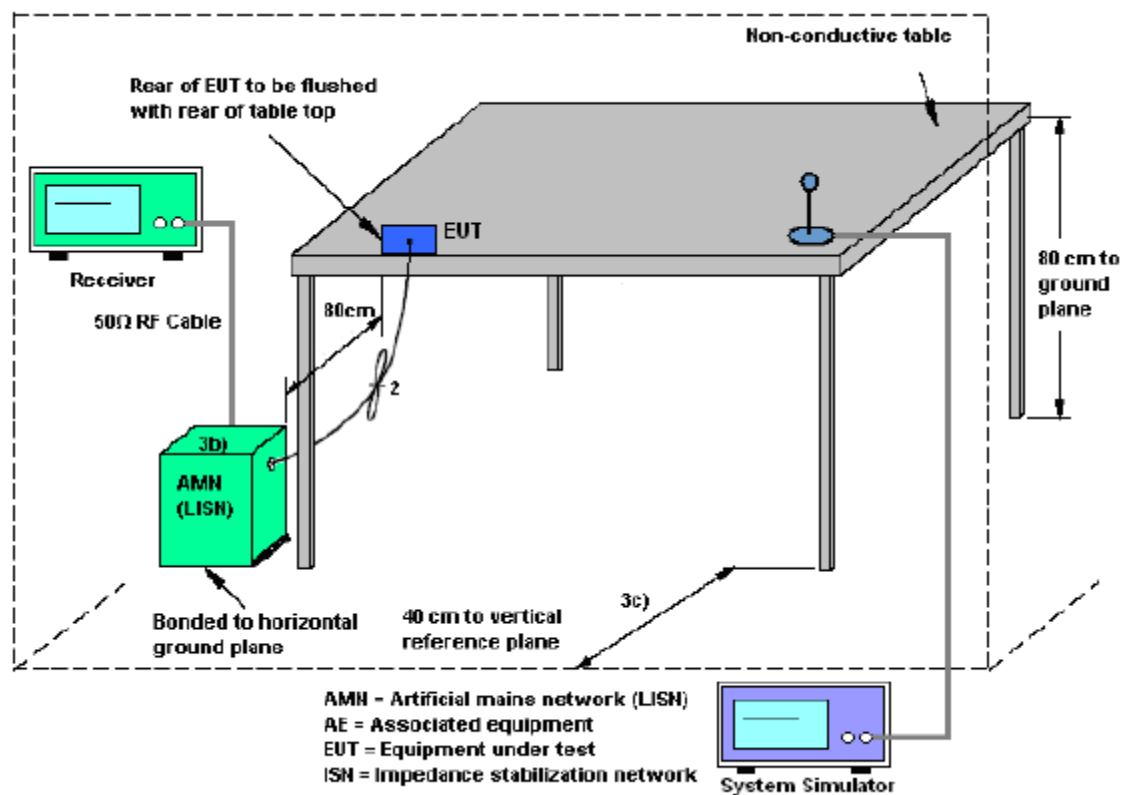
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

2.7.2. Measuring Instruments

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

2.7.3. Test Setup



2.7.4. Test Procedures

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

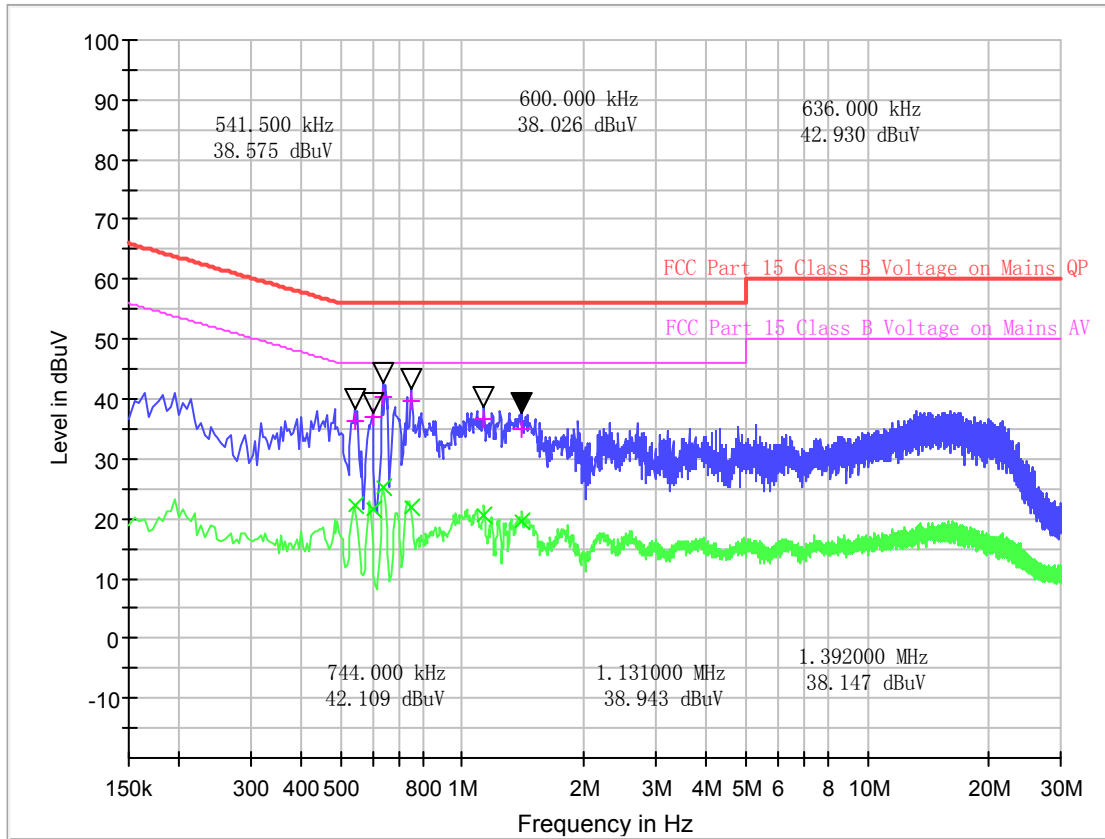
2.7.5. Test Result of AC Power Line Conducted Emission

The EUT configuration of the emission tests is 5G WLAN Link + Charging from Adapter.

All of the EUT Configure mode were tested and found 802.11a_5240MHz channel is the worst mode, the worst case is recorded in this report.



| | | | |
|------------|---------------|--------------|-----------------------------|
| Test site: | Shield ROOM 2 | Environment: | Temp: 23°C; Humi:53%;101kPa |
| Operator: | ZHANG QIANYU | Test Date: | 2023.09.05 |
| Test Mode: | 5G WIFI - TX | Test Part: | L |



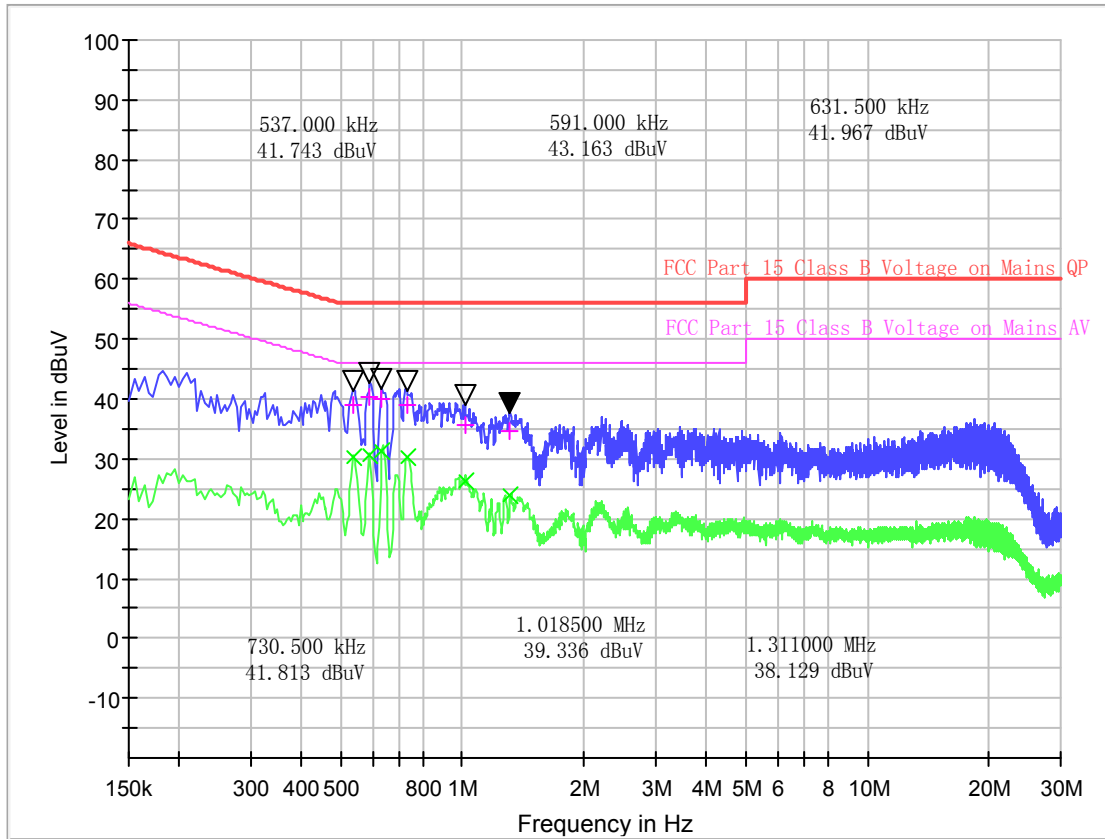
| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Corr.Factor (dB) | Margin - QPK | Limit - QPK (dBμV) | Margin - AV (dB) | Limit - AV (dBμV) |
|-----------------|------------------|----------------|------------------|--------------|--------------------|------------------|-------------------|
| 0.541500 | 36.26 | 22.11 | 10.4 | 19.74 | 56.0 | 23.89 | 46.0 |
| 0.600000 | 36.98 | 21.53 | 10.4 | 19.02 | 56.0 | 24.47 | 46.0 |
| 0.636000 | 40.44 | 25.40 | 10.4 | 15.56 | 56.0 | 20.60 | 46.0 |
| 0.744000 | 39.80 | 21.75 | 10.4 | 16.20 | 56.0 | 24.25 | 46.0 |
| 1.131000 | 36.72 | 20.69 | 10.4 | 19.28 | 56.0 | 25.31 | 46.0 |
| 1.392000 | 35.08 | 19.67 | 10.4 | 20.92 | 56.0 | 26.33 | 46.0 |

Test Result : Pass

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



| | | | |
|------------|---------------|--------------|-----------------------------|
| Test site: | Shield ROOM 2 | Environment: | Temp: 23°C; Humi:53%;101kPa |
| Operator: | ZHANG QIANYU | Test Date: | 2023.09.05 |
| Test Mode: | 5G WIFI - TX | Test Part: | N |



| Frequency (MHz) | QuasiPeak (dBμV) | Average (dBμV) | Corr.Factor (dB) | Margin - QPK | Limit - QPK (dBμV) | Margin - AV (dB) | Limit - AV (dBμV) |
|-----------------|------------------|----------------|------------------|--------------|--------------------|------------------|-------------------|
| 0.537000 | 38.88 | 30.17 | 10.5 | 17.12 | 56.0 | 15.83 | 46.0 |
| 0.591000 | 40.28 | 30.68 | 10.5 | 15.72 | 56.0 | 15.32 | 46.0 |
| 0.631500 | 40.11 | 31.19 | 10.5 | 15.89 | 56.0 | 14.81 | 46.0 |
| 0.730500 | 38.88 | 30.22 | 10.6 | 17.12 | 56.0 | 15.78 | 46.0 |
| 1.018500 | 35.51 | 26.29 | 10.5 | 20.49 | 56.0 | 19.71 | 46.0 |
| 1.311000 | 34.79 | 23.86 | 10.5 | 21.21 | 56.0 | 22.14 | 46.0 |

Test Result : Pass

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



3. List of measuring equipment

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal Date | Due Date |
|------|-----------------------------------|---------------|---------------------------|------------|------------|------------|
| 1 | 5M Anechoic Chamber | Albatross | SAC-5MAC 12.8x6.8x6.4m | A0304210 | 2022.06.09 | 2026.06.08 |
| 2 | EMI Test Receiver | ROHDE&SCHWARZ | ESW26 | A180502935 | 2023.06.08 | 2024.06.07 |
| 3 | Loop Antenna | Schwarz beck | HFH2-Z2 | A0304220 | 2022.05.02 | 2025.05.01 |
| 4 | Broadband antenna (30MHz~1GHz) | R&S | HL562 | A0304224 | 2023.06.08 | 2024.06.07 |
| 5 | EMI Horn Ant. (1-18G) | ETC | 1209 | A150402241 | 2021.01.02 | 2024.01.01 |
| 6 | Horn antenna (18GHz~26.5GHz) | AR | AT4510 | A0804450 | 2023.06.01 | 2024.05.31 |
| 7 | Amplifier 30M~1GHz | MILMEGA | 80RF1000-10004 | A140101634 | 2022.12.13 | 2023.12.12 |
| 8 | Amplifier 1G~18GHz | MILMEGA | AS0104R-800/400 | A160302517 | 2022.12.13 | 2023.12.12 |
| 9 | Spectrum Analyzer | R&S | FSV-40 | A140801886 | 2022.12.13 | 2023.12.12 |
| 10 | Test Receiver | R&S | ESIB7 | A0501375 | 2023.03.16 | 2024.03.15 |
| 11 | Broadband Ant. | 2786 | ETC | A150402240 | 2021.09.16 | 2024.03.03 |
| 12 | 3M Anechoic Chamber | Albatross | SAC-3MAC 9*6*6m | A0412375 | 2019.03.26 | 2024.03.25 |
| 13 | Temperature chamber | ESPEC | SU-642 | A150802409 | 2023.03.18 | 2024.03.17 |
| 14 | Test Receiver | KEYSIGHT | N9038A | A141202036 | 2023.06.12 | 2024.06.11 |
| 15 | LISN | ROHDE&SCHWARZ | ENV216 | A140701847 | 2023.06.08 | 2024.06.07 |
| 16 | Power Supply | R&S | WYJ-60100 | A141102031 | 2023.07.12 | 2026.07.11 |



4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

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

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

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

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

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

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

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

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

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

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

| | |
|---|-------|
| Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$) | 1.2dB |
|---|-------|



Appendix A

Output power Test Result and Data

| U-NII-1 AVGSA Output Power | | | | |
|----------------------------|----------------------|-----------------|-------------|--------|
| Mode | Test Frequency (MHz) | Max Power (dBm) | Limit (dBm) | Result |
| 802.11n (20MHz) | 5180 | 13.55 | 24 | Pass |
| 802.11n (20MHz) | 5220 | 13.59 | 24 | Pass |
| 802.11n (20MHz) | 5240 | 13.51 | 24 | Pass |
| 802.11n (40MHz) | 5190 | 13.69 | 24 | Pass |
| 802.11n (40MHz) | 5230 | 13.53 | 24 | Pass |
| 802.11ac (20MHz) | 5180 | 13.50 | 24 | Pass |
| 802.11ac (20MHz) | 5220 | 13.54 | 24 | Pass |
| 802.11ac (20MHz) | 5240 | 13.58 | 24 | Pass |
| 802.11ac (40MHz) | 5190 | 13.42 | 24 | Pass |
| 802.11ac (40MHz) | 5230 | 13.49 | 24 | Pass |
| 802.11ac (80MHz) | 5210 | 13.69 | 24 | Pass |
| 802.11a (20MHz) | 5180 | 14.57 | 24 | Pass |
| 802.11a (20MHz) | 5220 | 14.59 | 24 | Pass |
| 802.11a (20MHz) | 5240 | 14.93 | 24 | Pass |



| U-NII-2a AVGSA Output Power | | | | |
|-----------------------------|----------------------|-----------------|-------------|--------|
| Mode | Test Frequency (MHz) | Max Power (dBm) | Limit (dBm) | Result |
| 802.11n (20MHz) | 5180 | 13.26 | 24 | Pass |
| 802.11n (20MHz) | 5220 | 13.38 | 24 | Pass |
| 802.11n (20MHz) | 5240 | 13.21 | 24 | Pass |
| 802.11n (40MHz) | 5190 | 13.34 | 24 | Pass |
| 802.11n (40MHz) | 5230 | 13.52 | 24 | Pass |
| 802.11ac (20MHz) | 5180 | 13.07 | 24 | Pass |
| 802.11ac (20MHz) | 5220 | 13.19 | 24 | Pass |
| 802.11ac (20MHz) | 5240 | 13.31 | 24 | Pass |
| 802.11ac (40MHz) | 5190 | 13.51 | 24 | Pass |
| 802.11ac (40MHz) | 5230 | 13.55 | 24 | Pass |
| 802.11ac (80MHz) | 5210 | 13.30 | 24 | Pass |
| 802.11a (20MHz) | 5180 | 14.43 | 24 | Pass |
| 802.11a (20MHz) | 5220 | 14.57 | 24 | Pass |
| 802.11a (20MHz) | 5240 | 14.63 | 24 | Pass |



| U-NII-2c AVGSA Output Power | | | | |
|-----------------------------|----------------------|-----------------|-------------|--------|
| Mode | Test Frequency (MHz) | Max Power (dBm) | Limit (dBm) | Result |
| 802.11n (20MHz) | 5500 | 13.44 | 24 | Pass |
| 802.11n (20MHz) | 5600 | 13.20 | 24 | Pass |
| 802.11n (20MHz) | 5700 | 12.46 | 24 | Pass |
| 802.11n (40MHz) | 5510 | 13.24 | 24 | Pass |
| 802.11n (40MHz) | 5590 | 13.04 | 24 | Pass |
| 802.11n (40MHz) | 5670 | 12.65 | 24 | Pass |
| 802.11ac (20MHz) | 5500 | 13.37 | 24 | Pass |
| 802.11ac (20MHz) | 5600 | 13.23 | 24 | Pass |
| 802.11ac (20MHz) | 5700 | 12.41 | 24 | Pass |
| 802.11ac (40MHz) | 5510 | 13.20 | 24 | Pass |
| 802.11ac (40MHz) | 5590 | 13.45 | 24 | Pass |
| 802.11ac (40MHz) | 5670 | 12.80 | 24 | Pass |
| 802.11ac (80MHz) | 5530 | 13.33 | 24 | Pass |
| 802.11ac (80MHz) | 5610 | 13.27 | 24 | Pass |
| 802.11a (20MHz) | 5500 | 14.65 | 24 | Pass |
| 802.11a (20MHz) | 5600 | 14.45 | 24 | Pass |
| 802.11a (20MHz) | 5700 | 13.52 | 24 | Pass |



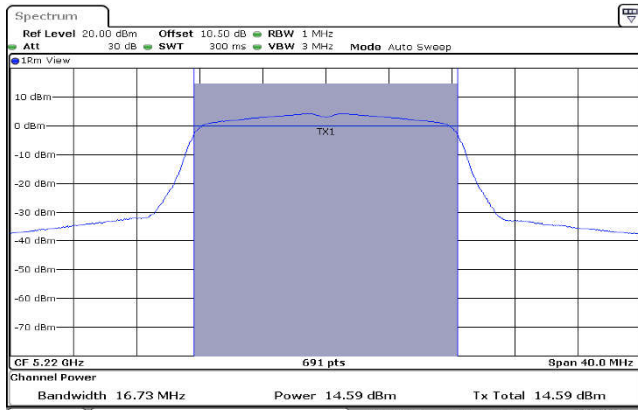
| U-NII-3 AVGSA Output Power | | | | |
|----------------------------|-----------------|-------------|--------------------|--------|
| Mode | Frequency (MHz) | Power (dBm) | FCC&IC Limit (dBm) | Result |
| 802.11n (20MHz) | 5745 | 13.43 | 30 | Pass |
| 802.11n (20MHz) | 5785 | 13.23 | 30 | Pass |
| 802.11n (20MHz) | 5825 | 12.86 | 30 | Pass |
| 802.11n (40MHz) | 5755 | 13.18 | 30 | Pass |
| 802.11n (40MHz) | 5795 | 12.89 | 30 | Pass |
| 802.11ac (20MHz) | 5745 | 13.29 | 30 | Pass |
| 802.11ac (20MHz) | 5785 | 13.11 | 30 | Pass |
| 802.11ac (20MHz) | 5825 | 12.67 | 30 | Pass |
| 802.11ac (40MHz) | 5755 | 13.17 | 30 | Pass |
| 802.11ac (40MHz) | 5795 | 12.83 | 30 | Pass |
| 802.11ac (80MHz) | 5775 | 12.33 | 30 | Pass |
| 802.11a (20MHz) | 5745 | 14.80 | 30 | Pass |
| 802.11a (20MHz) | 5785 | 14.60 | 30 | Pass |
| 802.11a (20MHz) | 5825 | 14.18 | 30 | Pass |

Test plots



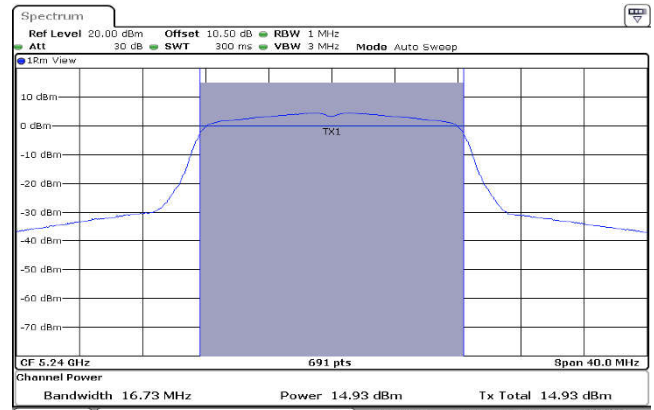


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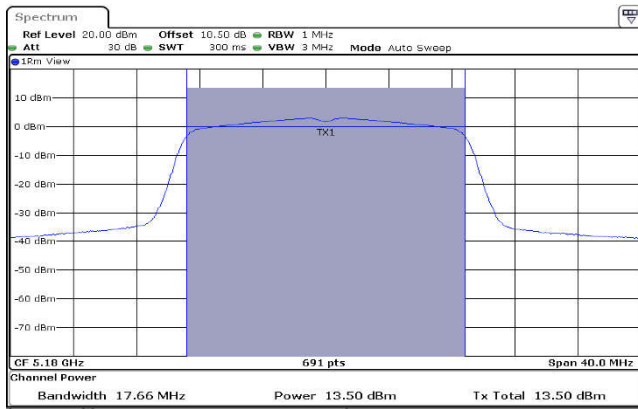
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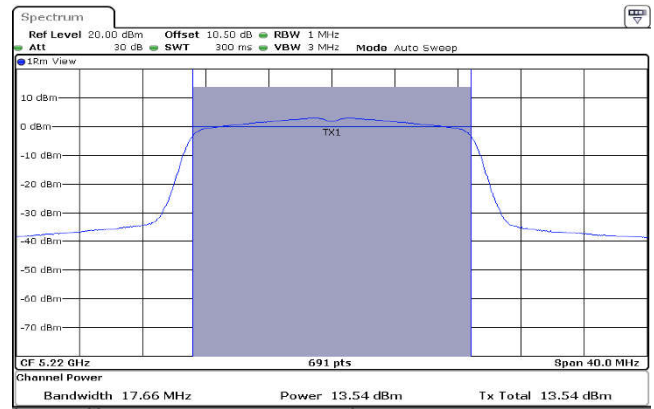
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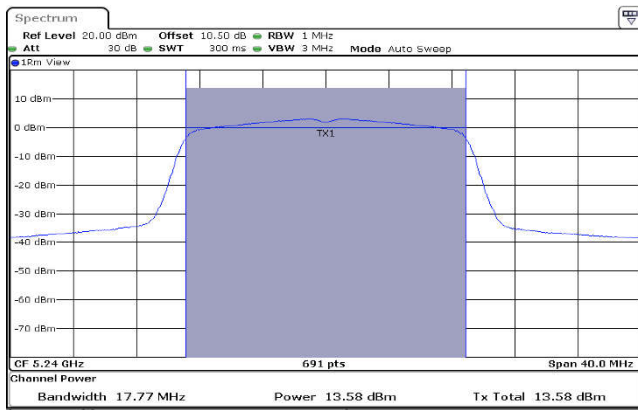
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U-NII-1,802.11ac(20MHz),5220MHz ,Ant1



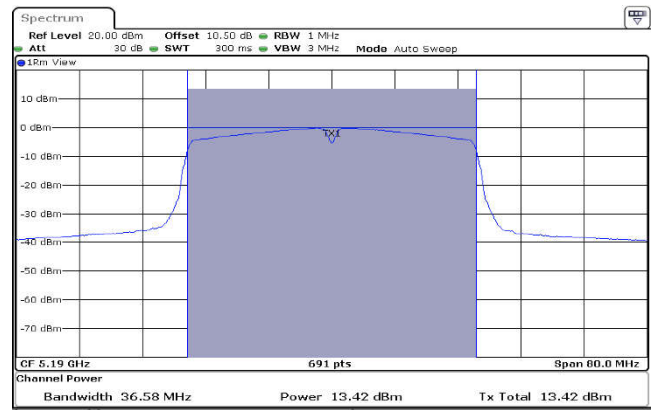
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Date: 7.SEP.2023 10:34:43

U-NII-1,802.11ac(40MHz),5190MHz ,Ant1

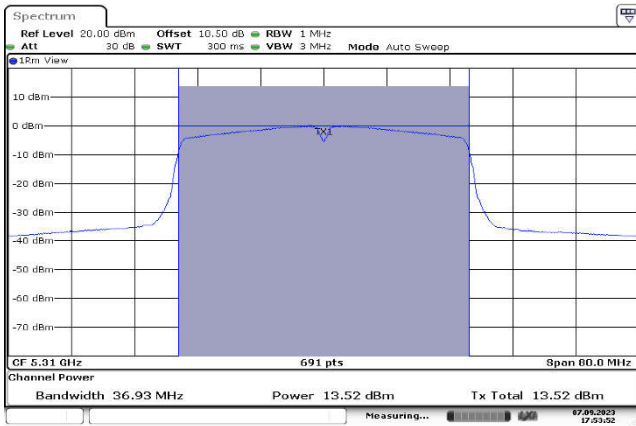


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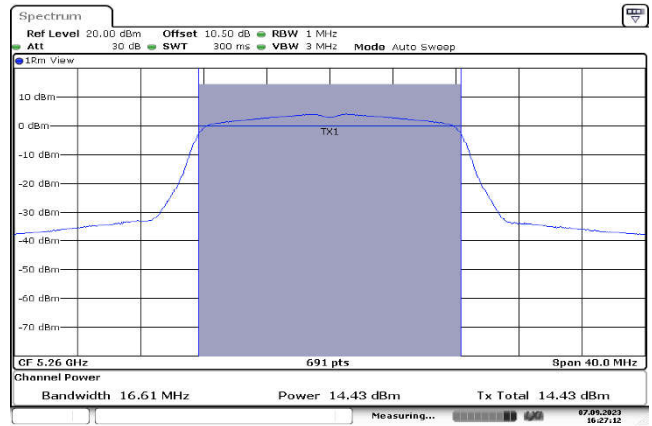




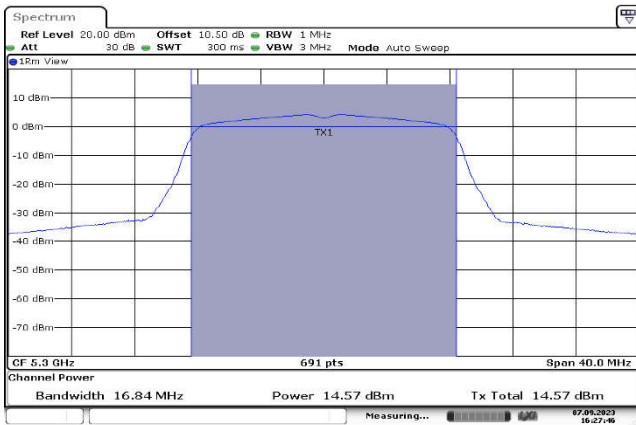
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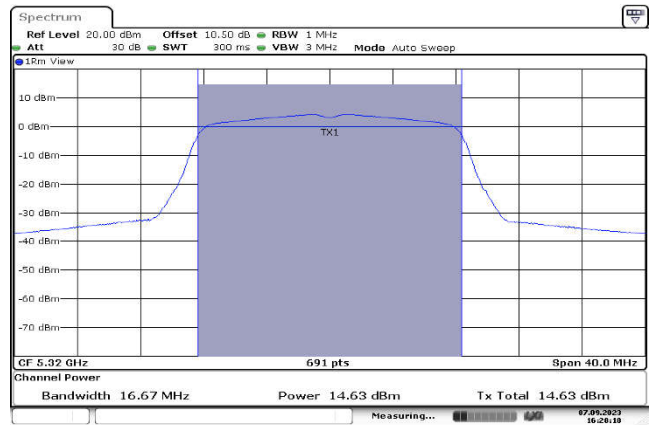
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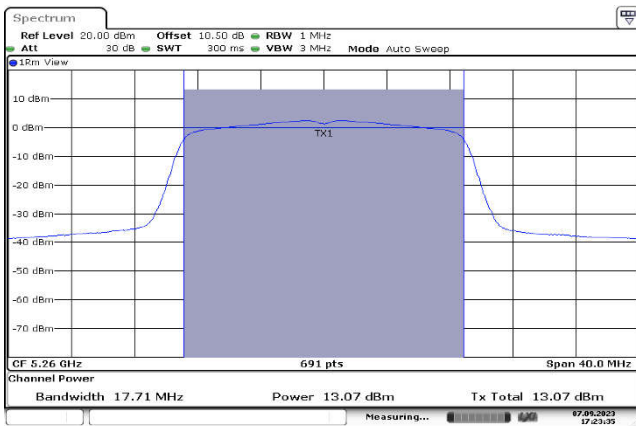
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,Ant1



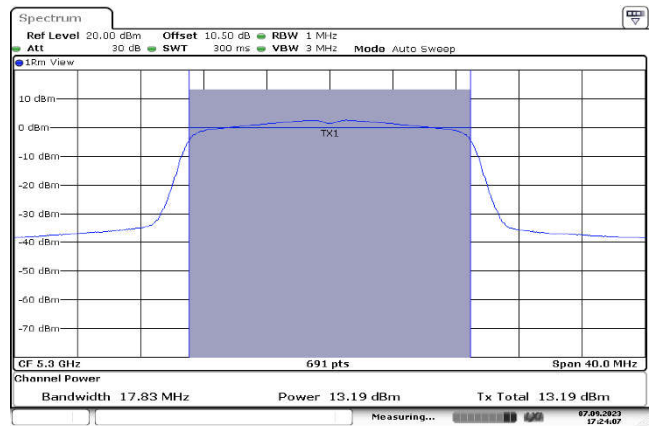
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U-NII-2a,802.11ac(20MHz),5260MHz
,Ant1

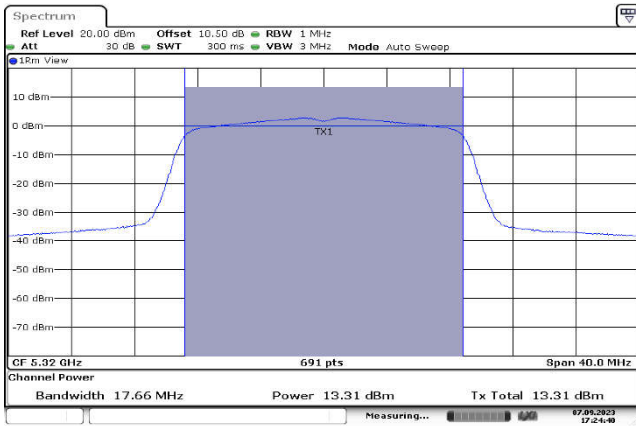


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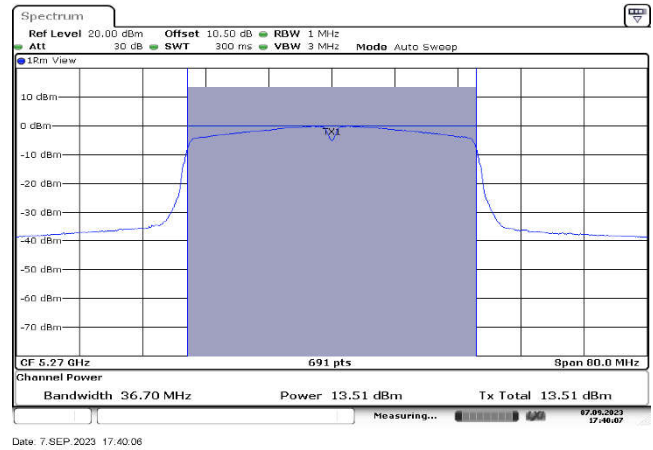




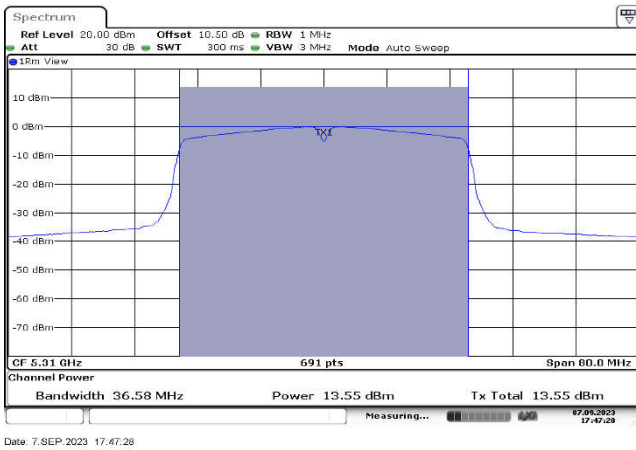
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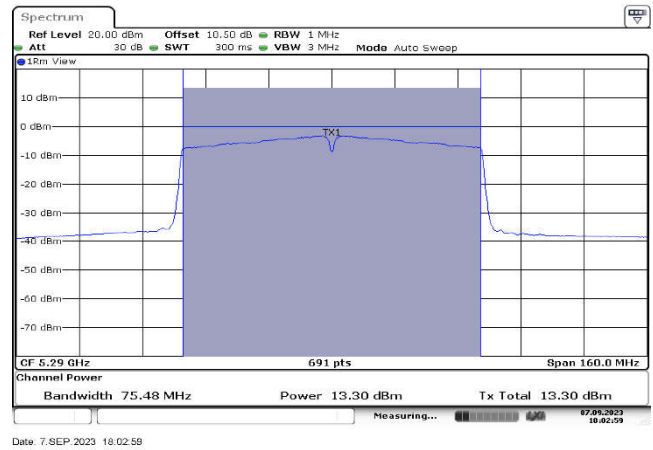
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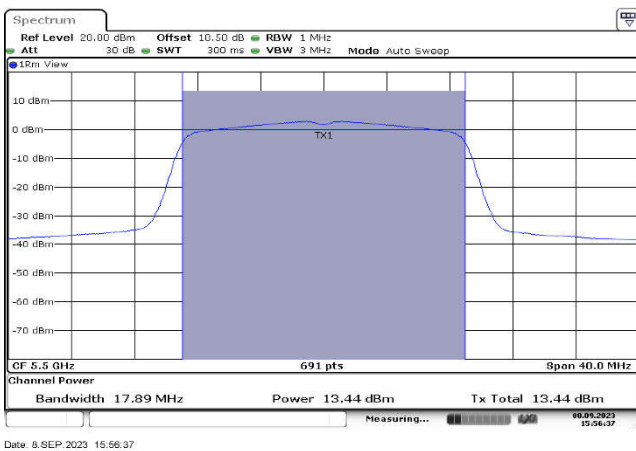
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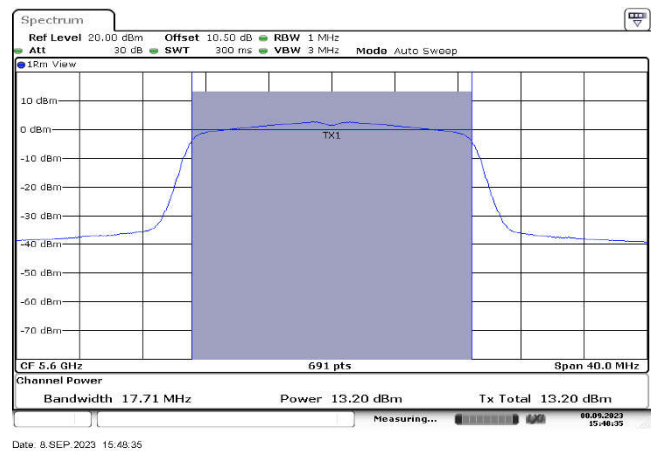
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U-NII-2c,802.11n(20MHz),5500MHz
,Ant1



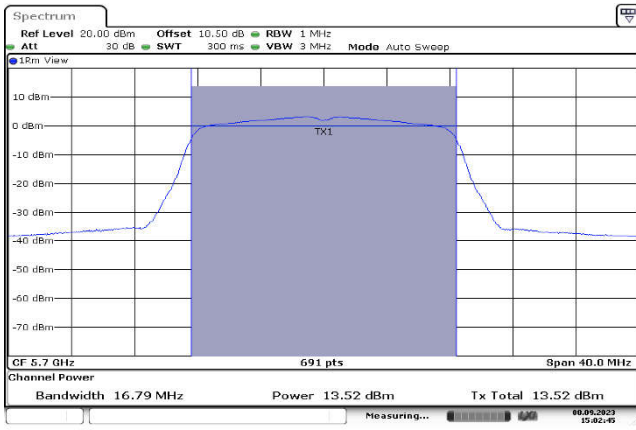
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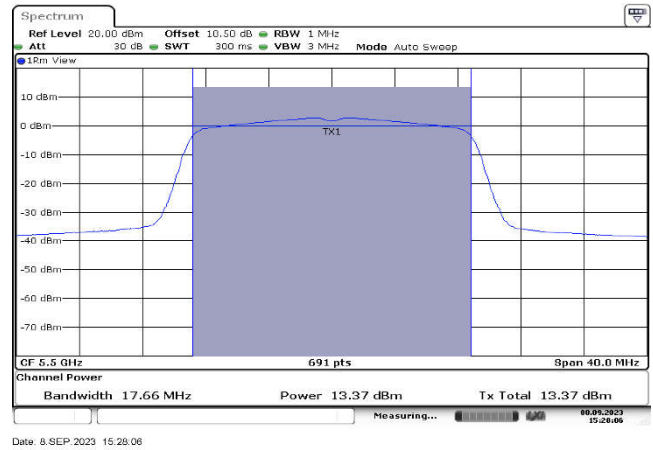




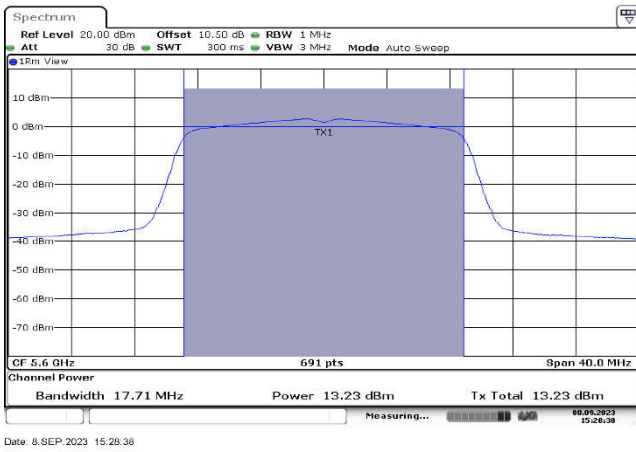
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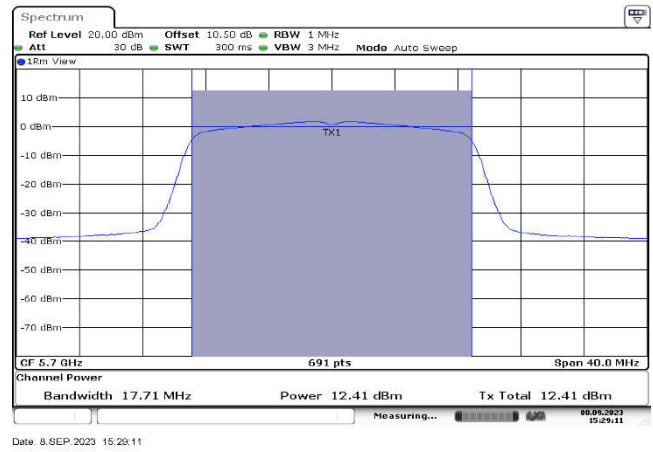
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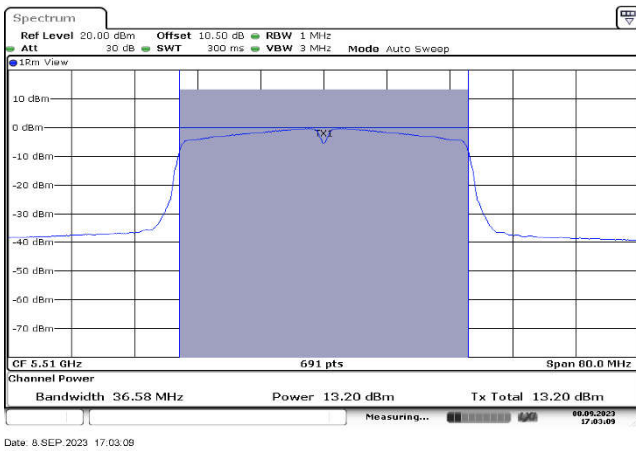
U-NII-2c,802.11ac(20MHz),5600MHz ,Ant1



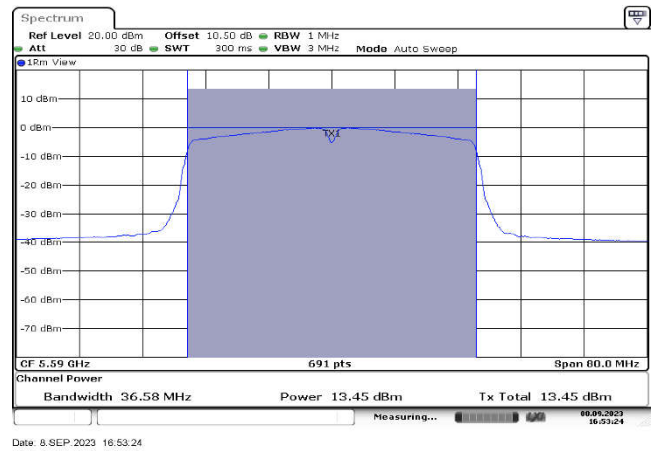
U-NII-2c,802.11ac(20MHz),5700MHz ,Ant1



U-NII-2c,802.11ac(40MHz),5510MHz ,Ant1

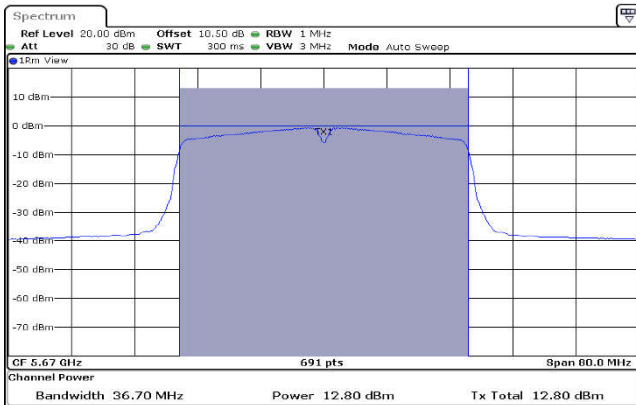


U-NII-2c,802.11ac(40MHz),5590MHz ,Ant1



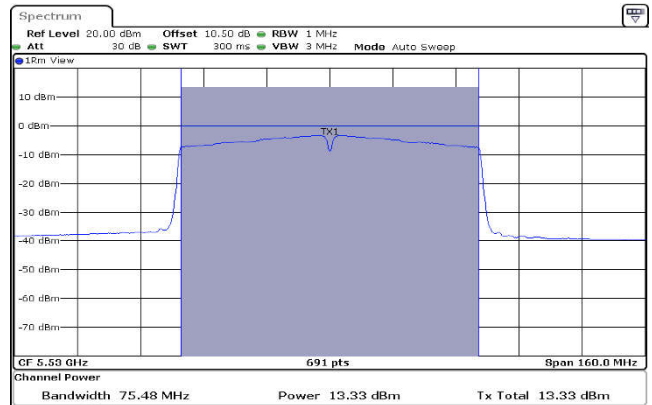


U-NII-2c,802.11ac(40MHz),5670MHz
,Ant1



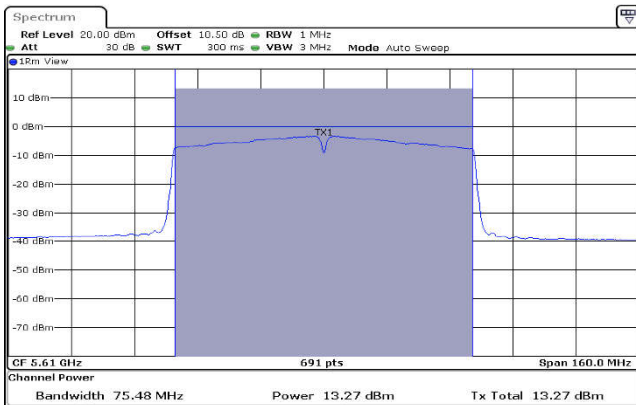
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,Ant1



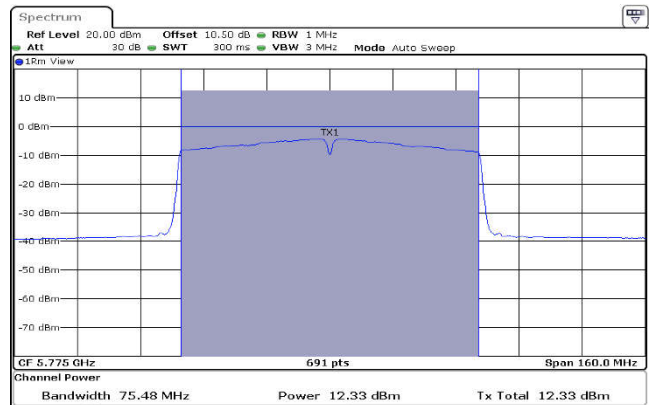
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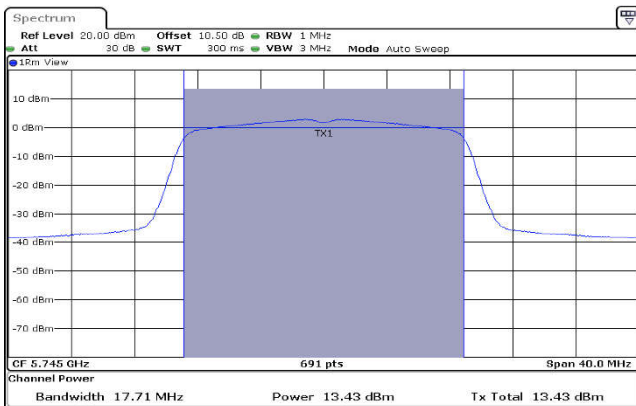
Date: 8 SEP 2023 17:16:58

U-NII-3,802.11ac(80MHz),5775MHz
,Ant1



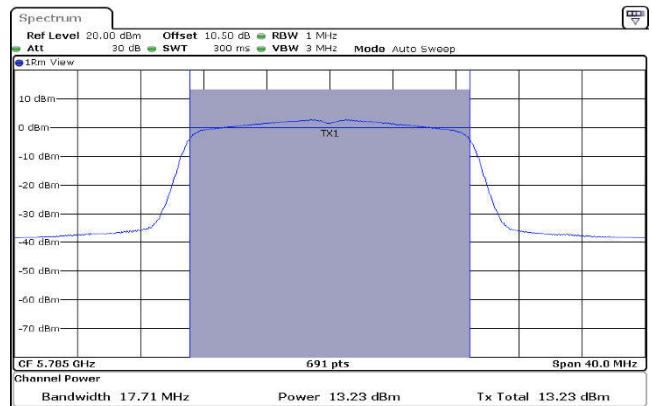
Date: 7 SEP 2023 16:14:08

U-NII-3,802.11n(20MHz),5745MHz
,Ant1



Date: 7 SEP 2023 15:13:49

U-NII-3,802.11n(20MHz),5785MHz
,Ant1

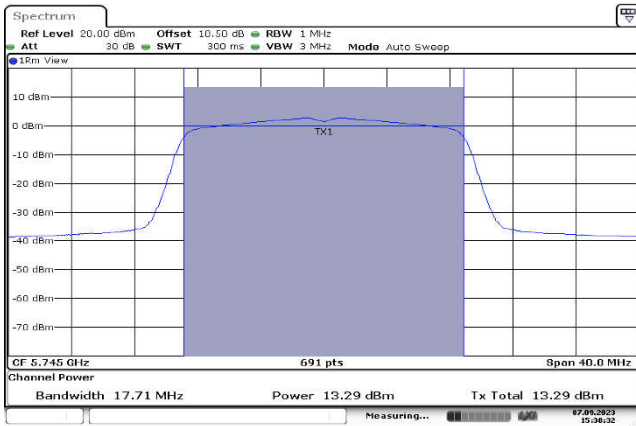


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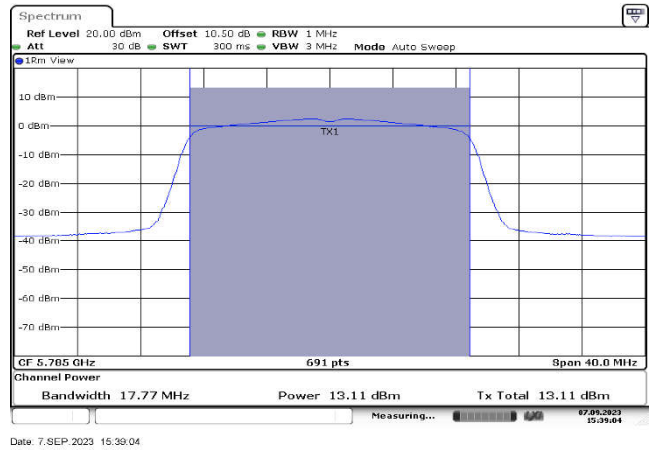




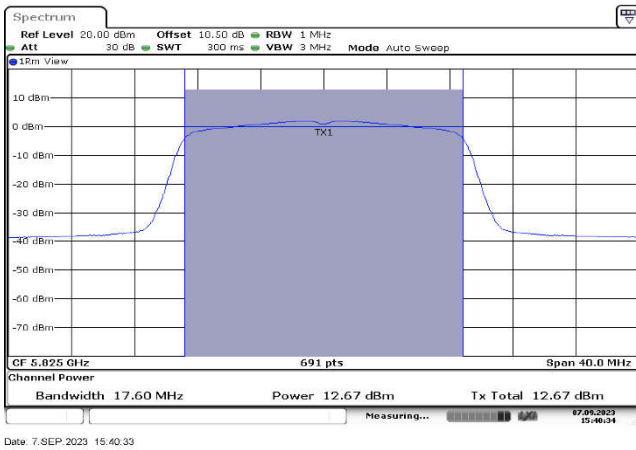
U-NII-3,802.11ac(20MHz),5745MHz ,Ant1



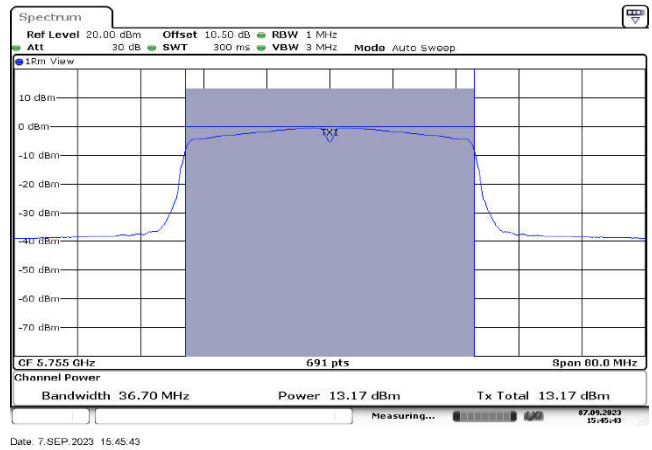
U-NII-3,802.11ac(20MHz),5785MHz ,Ant1



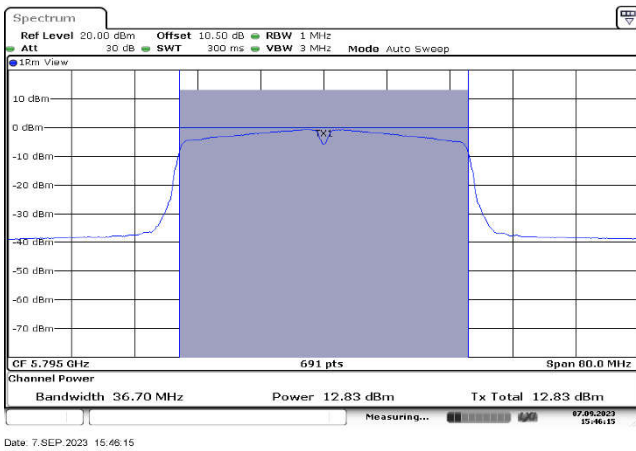
U-NII-3,802.11ac(20MHz),5825MHz ,Ant1



U-NII-3,802.11ac(40MHz),5755MHz ,Ant1



U-NII-3,802.11ac(40MHz),5795MHz ,Ant1



**AVGSA Power Spectral Density****Test Result and Data**

| U-NII-1 AVGSA Output Power | | | | |
|----------------------------|----------------------|-----------|-------------|--------|
| Mode | Test Frequency (MHz) | PSD (dBm) | Limit (dBm) | Result |
| 802.11n (20MHz) | 5180 | 2.887 | 11 | Pass |
| 802.11n (20MHz) | 5220 | 2.947 | 11 | Pass |
| 802.11n (20MHz) | 5240 | 3.007 | 11 | Pass |
| 802.11n (40MHz) | 5190 | 0.521 | 11 | Pass |
| 802.11n (40MHz) | 5230 | -0.088 | 11 | Pass |
| 802.11ac (20MHz) | 5180 | 2.900 | 11 | Pass |
| 802.11ac (20MHz) | 5220 | 2.937 | 11 | Pass |
| 802.11ac (20MHz) | 5240 | 2.935 | 11 | Pass |
| 802.11ac (40MHz) | 5190 | -0.417 | 11 | Pass |
| 802.11ac (40MHz) | 5230 | -0.142 | 11 | Pass |
| 802.11ac (80MHz) | 5210 | -2.469 | 11 | Pass |
| 802.11a (20MHz) | 5180 | 4.329 | 11 | Pass |
| 802.11a (20MHz) | 5220 | 5.270 | 11 | Pass |
| 802.11a (20MHz) | 5240 | 4.472 | 11 | Pass |



| U-NII-2a AVGSA Output Power | | | | |
|-----------------------------|----------------------|-----------|-------------|--------|
| Mode | Test Frequency (MHz) | PSD (dBm) | Limit (dBm) | Result |
| 802.11n (20MHz) | 5260 | 2.607 | 11 | Pass |
| 802.11n (20MHz) | 5300 | 2.715 | 11 | Pass |
| 802.11n (20MHz) | 5320 | 2.741 | 11 | Pass |
| 802.11n (40MHz) | 5270 | -0.246 | 11 | Pass |
| 802.11n (40MHz) | 5310 | -0.125 | 11 | Pass |
| 802.11ac (20MHz) | 5260 | 2.527 | 11 | Pass |
| 802.11ac (20MHz) | 5300 | 2.537 | 11 | Pass |
| 802.11ac (20MHz) | 5320 | -0.345 | 11 | Pass |
| 802.11ac (40MHz) | 5270 | -0.302 | 11 | Pass |
| 802.11ac (40MHz) | 5310 | -0.112 | 11 | Pass |
| 802.11ac (80MHz) | 5290 | -3.438 | 11 | Pass |
| 802.11a (20MHz) | 5260 | 3.951 | 11 | Pass |
| 802.11a (20MHz) | 5300 | 4.049 | 11 | Pass |
| 802.11a (20MHz) | 5320 | 4.119 | 11 | Pass |



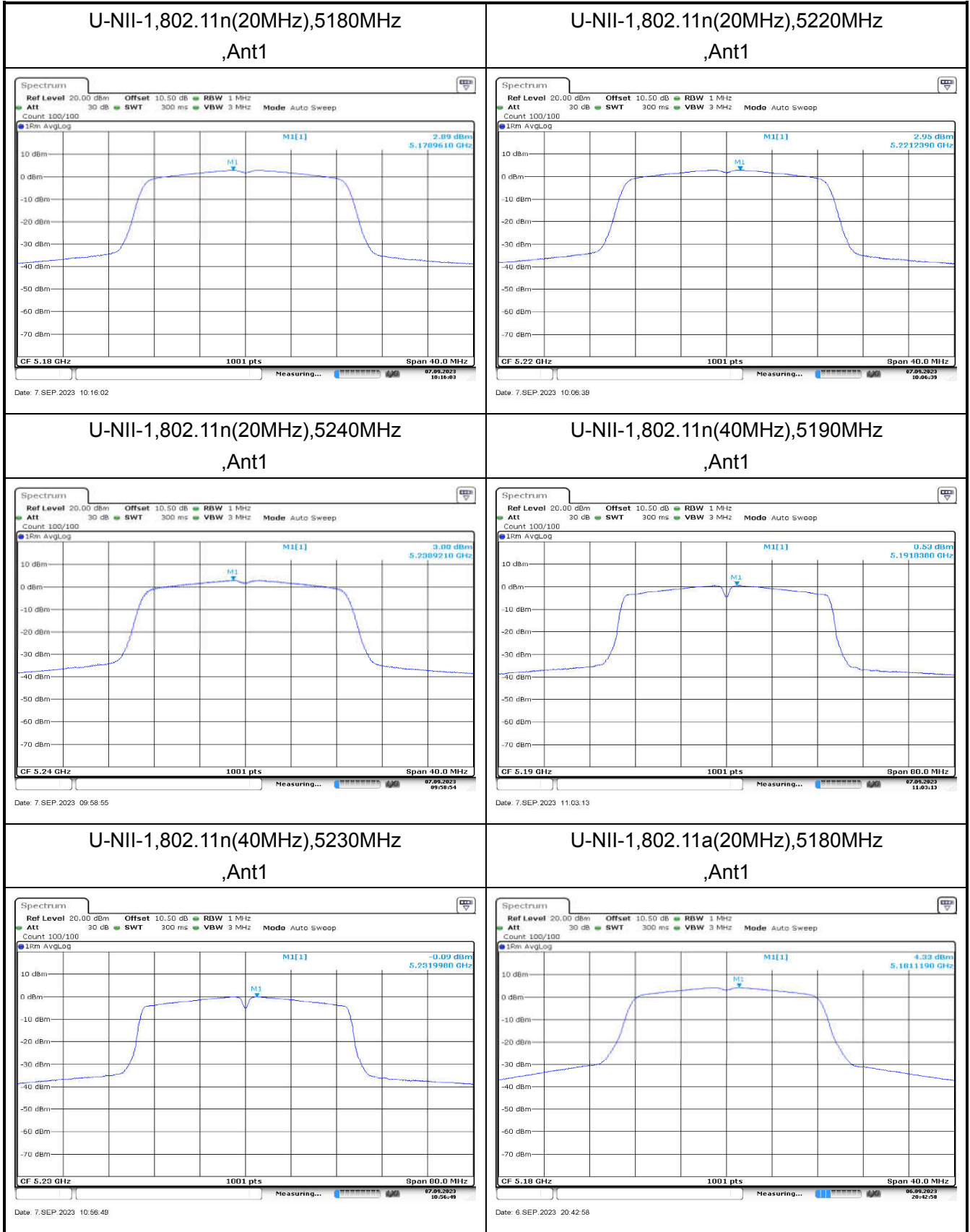
| U-NII-2c AVGSA Output Power | | | | |
|-----------------------------|----------------------|-----------|-------------|--------|
| Mode | Test Frequency (MHz) | PSD (dBm) | Limit (dBm) | Result |
| 802.11n (20MHz) | 5500 | 2.833 | 11 | Pass |
| 802.11n (20MHz) | 5600 | 2.576 | 11 | Pass |
| 802.11n (20MHz) | 5700 | 1.806 | 11 | Pass |
| 802.11n (40MHz) | 5510 | -0.380 | 11 | Pass |
| 802.11n (40MHz) | 5590 | -0.581 | 11 | Pass |
| 802.11n (40MHz) | 5670 | -1.028 | 11 | Pass |
| 802.11ac (20MHz) | 5500 | 2.712 | 11 | Pass |
| 802.11ac (20MHz) | 5600 | 2.592 | 11 | Pass |
| 802.11ac (20MHz) | 5700 | 1.745 | 11 | Pass |
| 802.11ac (40MHz) | 5510 | -0.428 | 11 | Pass |
| 802.11ac (40MHz) | 5590 | -0.721 | 11 | Pass |
| 802.11ac (40MHz) | 5670 | -0.813 | 11 | Pass |
| 802.11ac (80MHz) | 5530 | -3.064 | 11 | Pass |
| 802.11ac (80MHz) | 5610 | -3.665 | 11 | Pass |
| 802.11a (20MHz) | 5500 | 4.336 | 11 | Pass |
| 802.11a (20MHz) | 5600 | 4.112 | 11 | Pass |
| 802.11a (20MHz) | 5700 | 3.258 | 11 | Pass |



| U-NII-3 AVGSA Power Spectral Density | | | | |
|--------------------------------------|----------------------|------------------|--------------------|--------|
| Mode | Test Frequency (MHz) | PSD (dBm/510kHz) | Limit (dBm/500kHz) | Result |
| 802.11n (20MHz) | 5745 | -0.742 | 30 | Pass |
| 802.11n (20MHz) | 5785 | -0.885 | 30 | Pass |
| 802.11n (20MHz) | 5825 | -1.258 | 30 | Pass |
| 802.11n (40MHz) | 5755 | -3.883 | 30 | Pass |
| 802.11n (40MHz) | 5795 | -4.294 | 30 | Pass |
| 802.11ac (20MHz) | 5745 | -0.735 | 30 | Pass |
| 802.11ac (20MHz) | 5785 | -0.902 | 30 | Pass |
| 802.11ac (20MHz) | 5825 | -1.077 | 30 | Pass |
| 802.11ac (40MHz) | 5755 | -3.892 | 30 | Pass |
| 802.11ac (40MHz) | 5795 | -4.225 | 30 | Pass |
| 802.11ac (80MHz) | 5775 | -7.047 | 30 | Pass |
| 802.11a (20MHz) | 5745 | 0.611 | 30 | Pass |
| 802.11a (20MHz) | 5785 | 0.413 | 30 | Pass |
| 802.11a (20MHz) | 5825 | -0.002 | 30 | Pass |

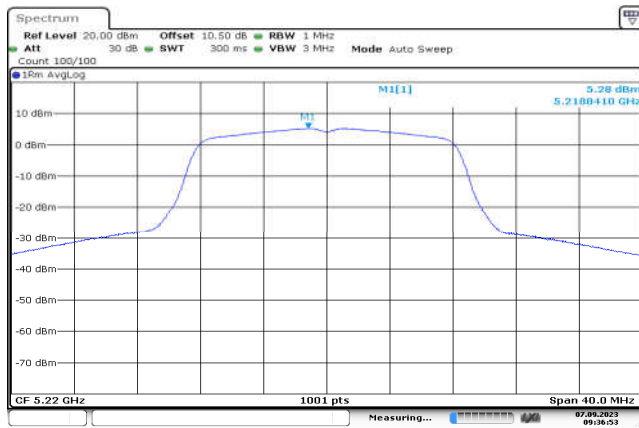


Test Plots



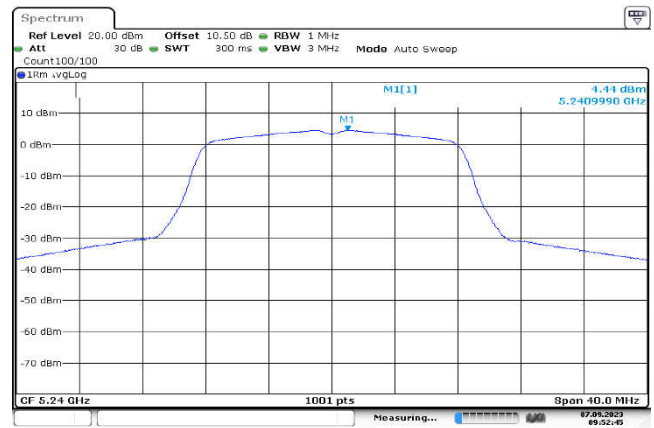


U-NII-1,802.11a(20MHz),5220MHz
,Ant1



Date: 7.SEP.2023 09:36:54

U-NII-1,802.11a(20MHz),5240MHz
,Ant1



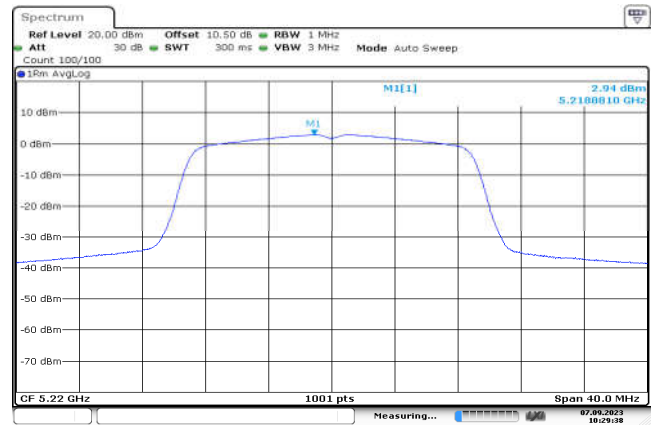
Date: 7.SEP.2023 09:52:46

U-NII-1,802.11ac(20MHz),5180MHz
,Ant1



Date: 7.SEP.2023 10:21:45

U-NII-1,802.11ac(20MHz),5220MHz
,Ant1



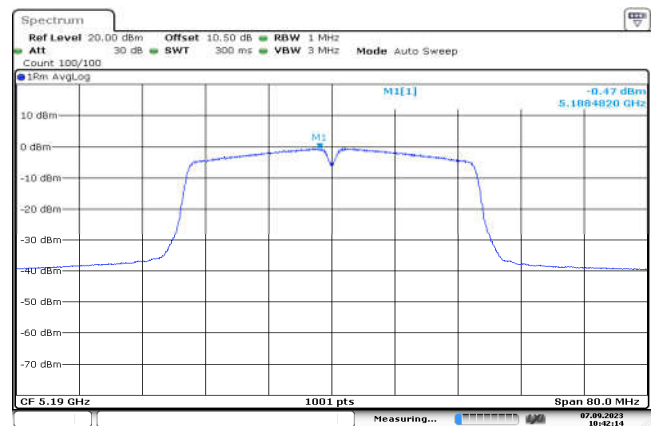
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U-NII-1,802.11ac(20MHz),5240MHz
,Ant1

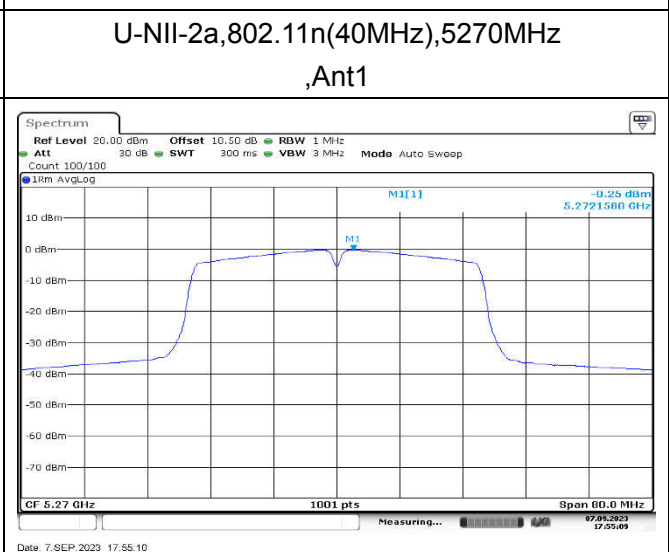
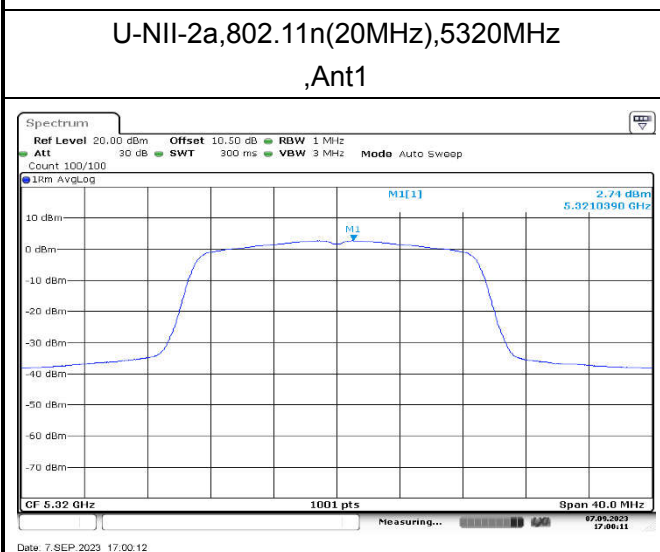
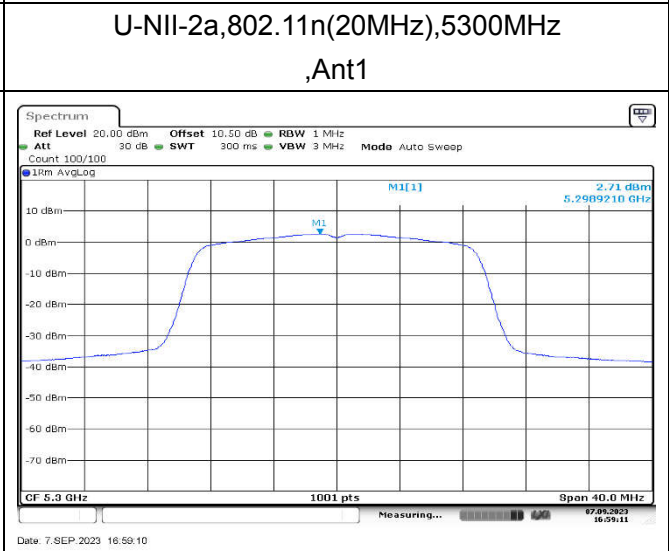
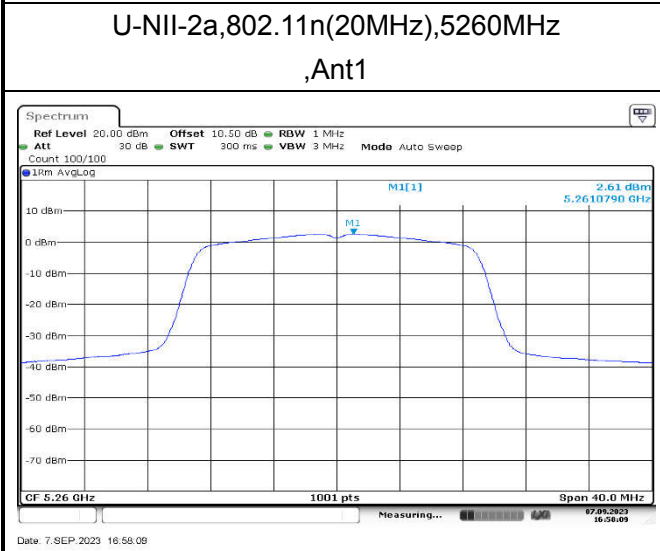
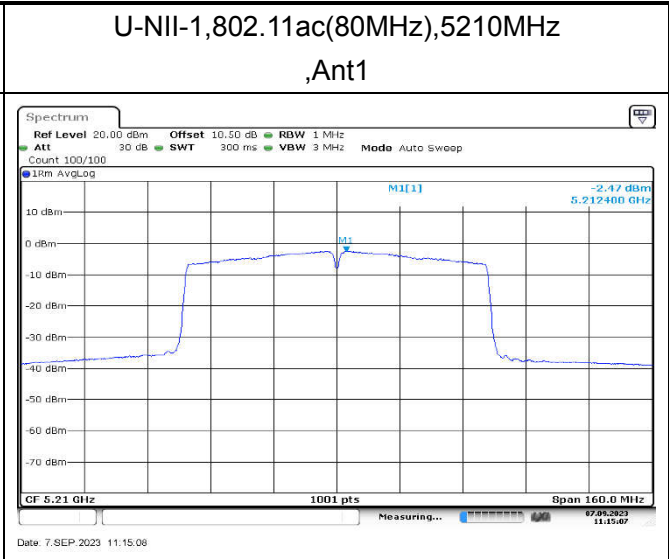
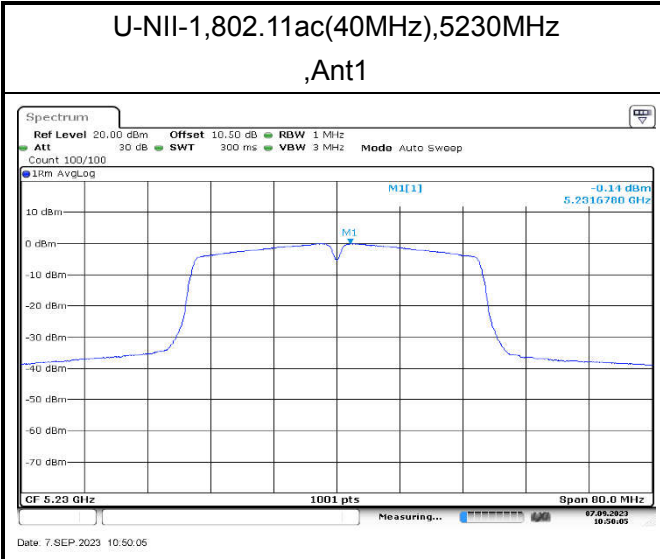


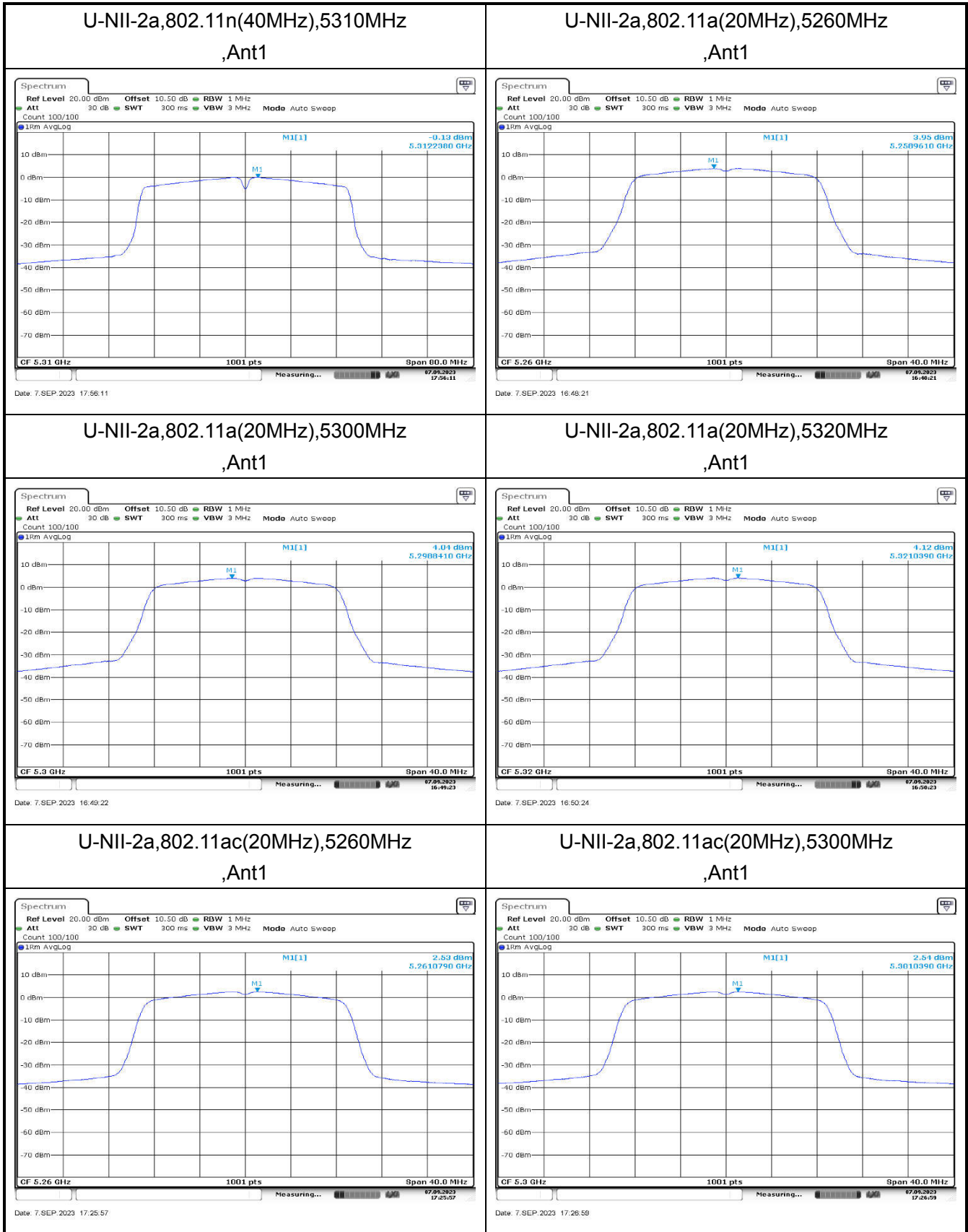
Date: 7.SEP.2023 10:35:25

U-NII-1,802.11ac(40MHz),5190MHz
,Ant1



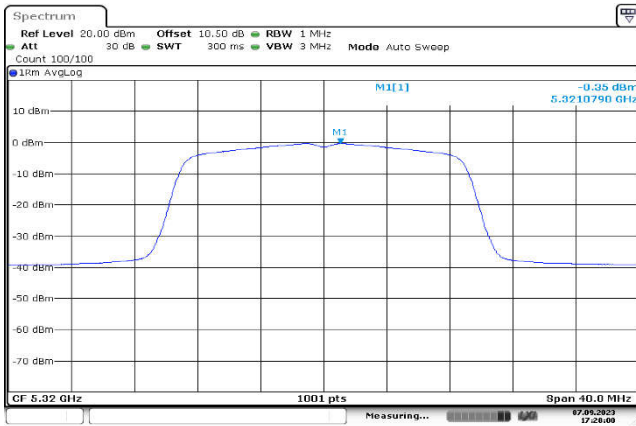
Date: 7.SEP.2023 10:42:15







U-NII-2a,802.11ac(20MHz),5320MHz
,Ant1



Date: 7.SEP.2023 17:28:00

U-NII-2a,802.11ac(40MHz),5270MHz
,Ant1



Date: 7.SEP.2023 17:41:56

U-NII-2a,802.11ac(40MHz),5310MHz
,Ant1



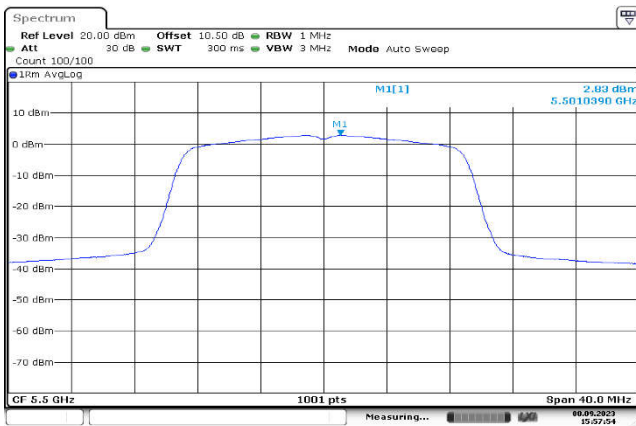
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U-NII-2a,802.11ac(80MHz),5290MHz
,Ant1



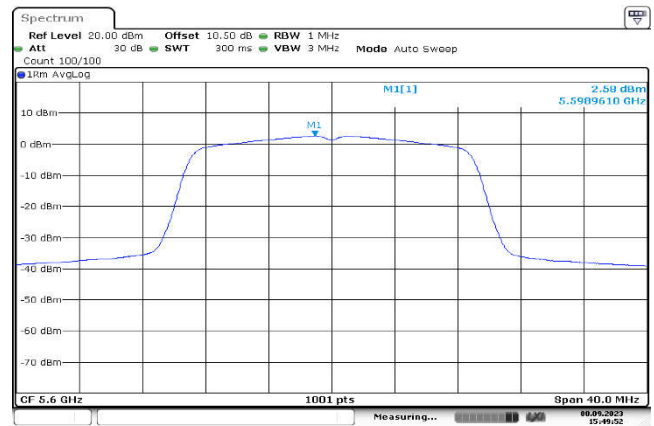
Date: 7.SEP.2023 18:04:16

U-NII-2c,802.11n(20MHz),5500MHz
,Ant1



Date: 8.SEP.2023 15:57:54

U-NII-2c,802.11n(20MHz),5600MHz
,Ant1



Date: 8.SEP.2023 15:49:52

