



TEST REPORT

Applicant: Evolve 3 Holdings Pty Ltd

Address: PO BOX 6222, NARRAWEENA, NSW, Australia

FCC ID: 2AWLG-EVOXSV1

Product Name: Cloud Gaming console

Standard(s): 47 CFR Part 15, Subpart E(15.407)
ANSI C63.10-2013
KDB 789033 D02 General U-NII Test Procedures New
Rules v02r01

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: CR230956606-00D

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|-----------------|-----------------|-------------------------|------------------|
| 1.0 | CR230956606-00D | Original Report | 2023/11/27 |

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

| | |
|--|--|
| EUT Name: | Cloud Gaming console |
| EUT Model: | EVOXSV1 |
| Trade Name: | Evolve III |
| Operation Frequency: | 5180-5240 MHz (802.11a/n ht20/ac vht20) 5190-5230 MHz (802.11n ht40/ac vht40) 5210 MHz (802.11ac vht80) 5745-5825 MHz (802.11a/n ht20/ac vht20) 5755-5795 MHz (802.11n ht40/ac vht40) 5775 MHz (802.11ac vht80) |
| Maximum Average Output Power (Conducted): | 12.23dBm (5150-5250 MHz) 12.13dBm (5725-5850 MHz) |
| Modulation Type: | 802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, |
| Rated Input Voltage: | DC 19V from AC/DC Adapter |
| Serial Number: | 2BQ8-1 |
| EUT Received Date: | 2023/9/25 |
| EUT Received Status: | Good |

1.1.2 Operation Frequency Detail:

For 802.11a/n ht20/ac vht20:

| 5150-5250MHz Band | | 5725-5850MHz Band | |
|-------------------|-----------------|-------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 36 | 5180 | 149 | 5745 |
| 40 | 5200 | 153 | 5765 |
| 44 | 5220 | 157 | 5785 |
| 48 | 5240 | 161 | 5805 |
| / | / | 165 | 5825 |

Per section 15.31(m), the above frequencies which bold indicated were performed to test.

For 802.11n ht40/ac vht40:

| 5150-5250MHz Band | | 5725-5850MHz Band | |
|-------------------|-----------------|-------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 38 | 5190 | 151 | 5755 |
| 46 | 5230 | 159 | 5795 |

Per section 15.31(m), the above frequencies which bold indicated were performed to test.

For 802.11ac vht80:

| 5150-5250MHz Band | | 5725-5850MHz Band | |
|-------------------|-----------------|-------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 42 | 5210 | 155 | 5775 |

Per section 15.31(m), the above frequencies which bold indicated were performed to test.

1.1.3 Antenna Information Detail▲:

| Antenna | Antenna Type | input impedance (Ohm) | Frequency Range | Antenna Gain |
|---------------------------------------|---------------------|----------------------------------|------------------------|---------------------|
| Antenna 1 (Support BT+WLAN) | FPC Antenna | 50 | 2.4~2.5GHz | 2.28dBi |
| | | | 5.15~5.85GHz | 2.95dBi |
| Antenna 2 (Support WLAN) | FPC Antenna | 50 | 2.4~2.5GHz | 2.83dBi |
| | | | 5.15~5.85GHz | 2.98dBi |

The Method of §15.203 Compliance:

- Antenna was permanently attached to the unit.
- Antenna use a unique type of connector to attach to the EUT.
- Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.1.4 Accessory Information:

| Accessory Description | Manufacturer | Model | Parameters |
|------------------------------|-----------------------------------|----------------------|---|
| AC/DC Adapter | Shenzhen Jihongda Power Co., Ltd. | JHD-AP045U-190236-AF | Input: 100-240V~50/60Hz1.5A Output: 19V = 2360mA |
| HDMI Cable | / | / | shielded without ferrite, 1.2 Meter |

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

| | |
|---------------------------------|--|
| EUT Operation Mode: | The system was configured for testing in Engineering Mode, which was provided by the manufacturer. |
| Equipment Modifications: | No |
| EUT Exercise Software: | DRTU.exe |

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲ :

5150-5250 MHz Band:

| Test Modes | Test Channels | Test Frequency (MHz) | Data rate | Power Level Setting | |
|-------------------|----------------------|-----------------------------|------------------|----------------------------|----------------|
| | | | | Chain 0 | Chain 1 |
| 802.11a | Lowest | 5180 | 6Mbps | 13 | 13 |
| | Middle | 5200 | 6Mbps | 13 | 13 |
| | Highest | 5240 | 6Mbps | 13 | 13 |
| 802.11n ht20 | Lowest | 5180 | MCS8 | 13 | 13 |
| | Middle | 5200 | MCS8 | 13 | 13 |
| | Highest | 5240 | MCS8 | 13 | 13 |
| 802.11n ht40 | Lowest | 5190 | MCS8 | 13 | 13 |
| | Highest | 5230 | MCS8 | 13 | 13 |
| 802.11ac vht80 | Middle | 5210 | MCS8 | 13 | 13 |

5725-5850 MHz Band:

| Test Modes | Test Channels | Test Frequency (MHz) | Data rate | Power Level Setting | |
|-------------------|----------------------|-----------------------------|------------------|----------------------------|----------------|
| | | | | Chain 0 | Chain 1 |
| 802.11a | Lowest | 5745 | 6Mbps | 13 | 13 |
| | Middle | 5785 | 6Mbps | 13 | 13 |
| | Highest | 5825 | 6Mbps | 13 | 13 |
| 802.11n ht20 | Lowest | 5745 | MCS8 | 13 | 13 |
| | Middle | 5785 | MCS8 | 13 | 13 |
| | Highest | 5825 | MCS8 | 13 | 13 |
| 802.11n ht40 | Lowest | 5755 | MCS8 | 13 | 13 |
| | Highest | 5795 | MCS8 | 13 | 13 |
| 802.11ac vht80 | Middle | 5775 | MCS8 | 13 | 13 |

Note:

1. The system support 802.11a/n ht20/n ht40/ac vht20/vht40/vht80, the vht20/vht40 were reduced since the identical parameters with 802.11n ht20 and ht40.
2. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.
3. The device supports SISO in all modes, and MIMO 2T2R in 802.11n/ac modes, per pretest, 2T2R mode was the worst mode and reported for 802.11n/ac modes.

1.2.2 Support Equipment List and Details

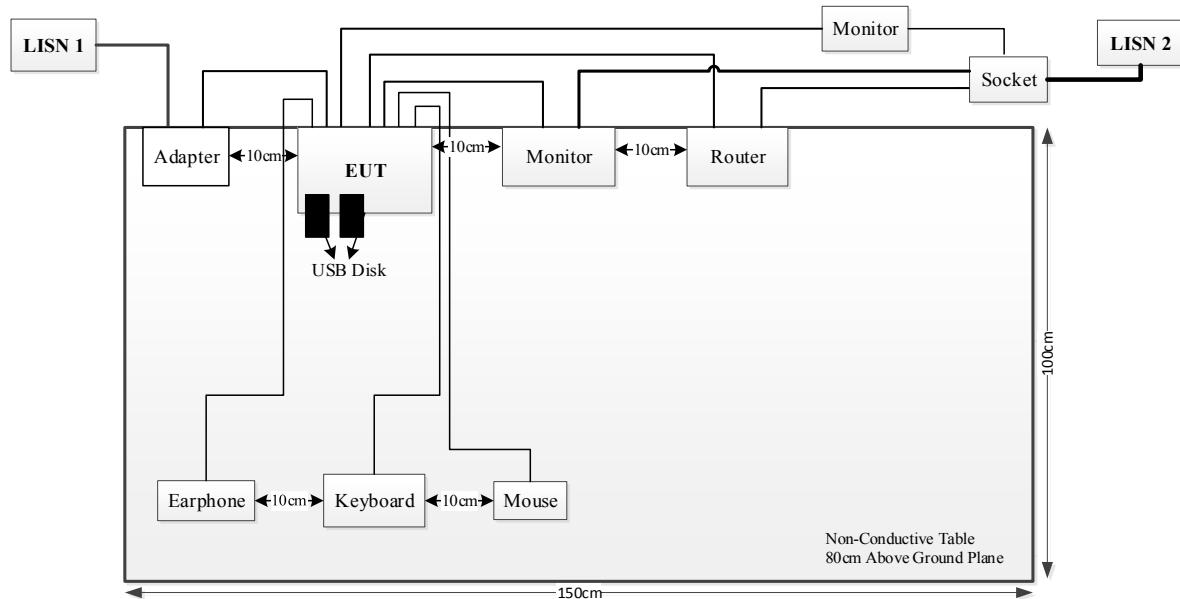
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|--------------|------------------|
| TOTO LINK | Router | X5000R | X5000RK9T0560 |
| PHILIPS | Mouse | SPK7214 | M214BQ210411615 |
| PHILIPS | Keyboard | SPT6234 | K234210510742 |
| HP | USB Disk | HPFD206W-32 | PAA6918477 |
| HP | USB Disk | HPFD206W-32 | PAA6902271 |
| CLC | Earphone | Whiteview5.0 | EP21107125 |
| PHILIPS | Monitor1 | 24PFF5595/T3 | XM2A2124000343 |
| AOC | Monitor2 | 24M2 | OHWL5YA000130 H7 |

1.2.3 Support Cable List and Details

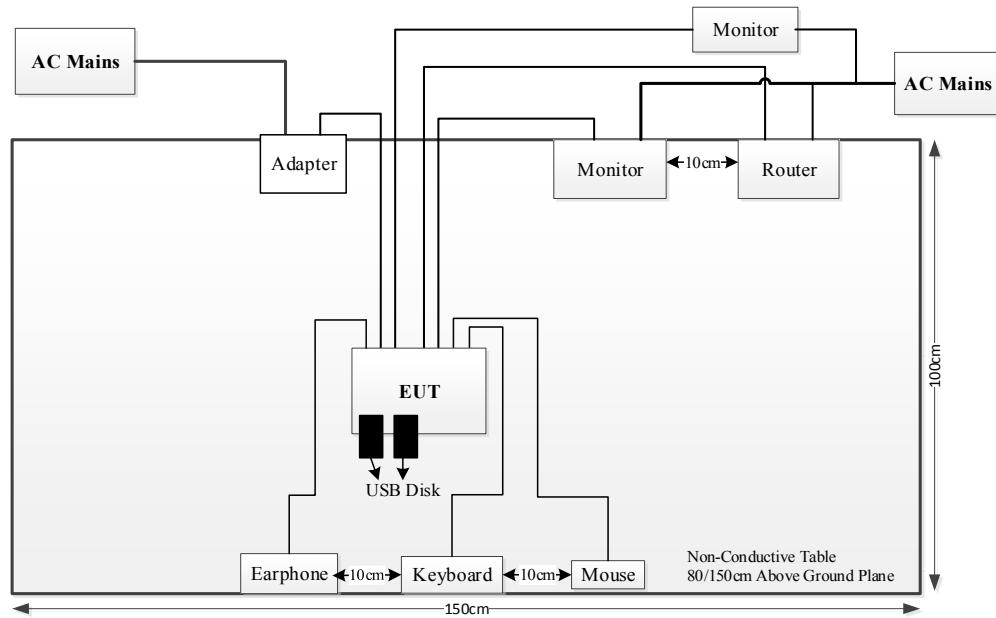
| Cable Description | Shielding Type | Ferrite Core | Length (m) | From Port | To |
|-------------------|----------------|--------------|------------|-----------|----------|
| RJ45 Cable | No | No | 1.5 | EUT | Router |
| Mouse Cable | No | No | 1.2 | EUT | Mouse |
| Keyboard Cable | No | No | 1.2 | EUT | Keyboard |
| Earphone Cable | No | No | 0.8 | EUT | Earphone |
| HDMI Cable | No | No | 3 | Monitor | EUT |

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Radiation Spurious Emissions:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

| Parameter | Measurement Uncertainty |
|-----------------------------------|--|
| Occupied Channel Bandwidth | $\pm 5\%$ |
| RF output power, conducted | $\pm 0.61 \text{ dB}$ |
| Power Spectral Density, conducted | $\pm 0.61 \text{ dB}$ |
| Unwanted Emissions, radiated | 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB |
| Unwanted Emissions, conducted | $\pm 1.26 \text{ dB}$ |
| Temperature | $\pm 1^\circ\text{C}$ |
| Humidity | $\pm 5\%$ |
| DC and low frequency voltages | $\pm 0.4\%$ |
| Duty Cycle | 1% |
| AC Power Lines Conducted Emission | 2.8 dB (150 kHz to 30 MHz) |

2. SUMMARY OF TEST RESULTS

| Standard(s) Section | Test Items | Result |
|---------------------------------|--|-------------|
| FCC§15.207(a) | AC line conducted emissions | Compliant |
| FCC§15.205& §15.209 &§15.407(b) | Radiated Spurious Emissions | Compliant |
| FCC§15.407 (c) | Automatically Discontinue Transmission | Compliant* |
| FCC§15.407(a) (e) | Emission Bandwidth | Compliant |
| FCC§15.407(a) | Conducted Transmitter Output Power | Compliant |
| FCC§15.407 (a) | Power Spectral Density | Compliant |
| FCC§15.407 (g) | Frequency Stability | Compliant** |
| FCC§15.203 | Antenna Requirement | Compliant |
| §15.407 (f) & §1.1307 & §2.1091 | RF Exposure Evaluation | Compliant |

Note:

Compliant*: During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

Compliant:** Grantee ensure that the product meets e-CFR Title 47 section 15.407(g) and KDB 789033 D02v02r01 frequency stability such that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator 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, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency of emission (MHz) | Conducted limit (dB μ V) | |
|-----------------------------|------------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

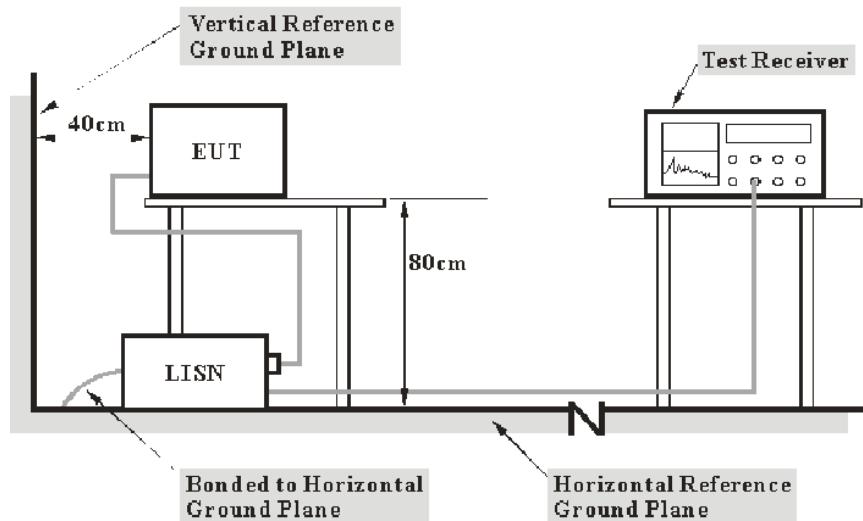
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note:

1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “Margin” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

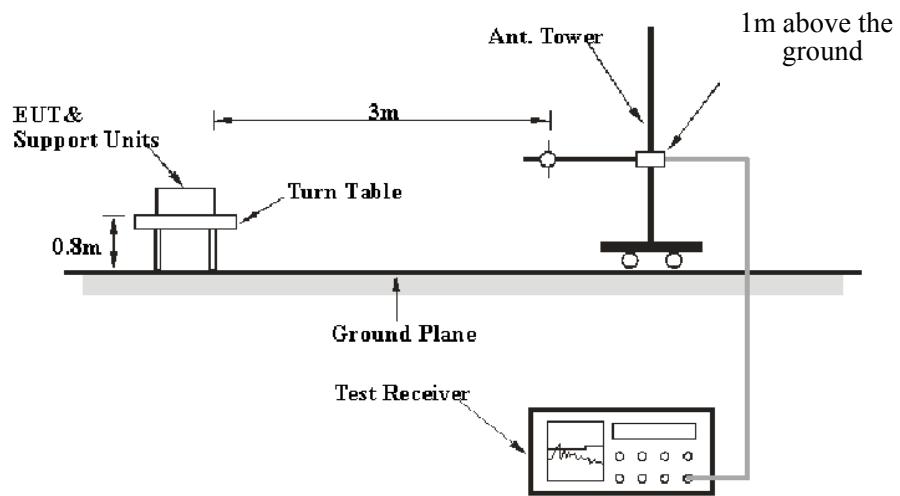
FCC §15.407 (b);

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

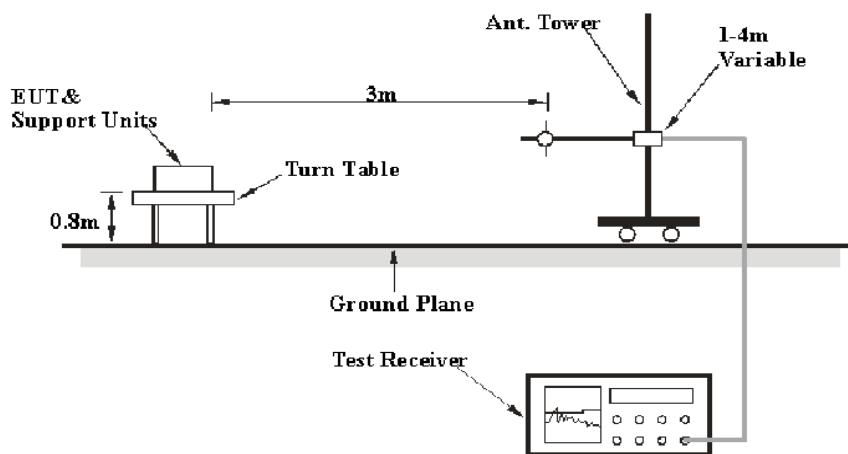
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (4) For transmitters operating solely in the 5.725-5.850 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
 - (8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
 - (9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.
 - (10) The provisions of § 15.205 apply to intentional radiators operating under this section.
 - (11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
- (c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.2.2 EUT Setup

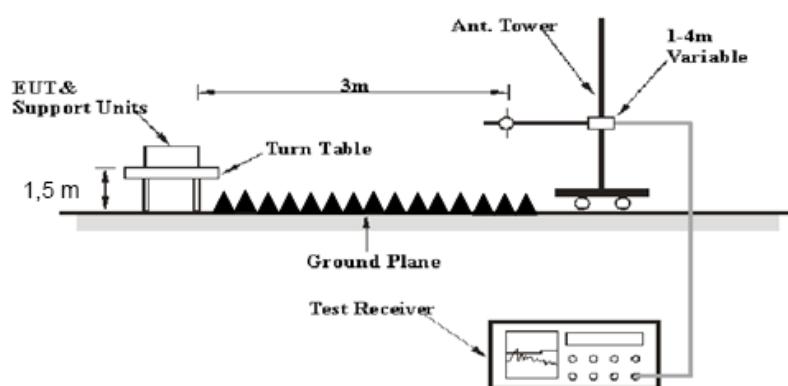
9kHz~30MHz:



30MHz~1GHz:



1-40 GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

| Frequency Range | RBW | Video B/W | IF B/W | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 9 kHz – 150 kHz | 300 Hz | 1 kHz | 200 Hz | QP/AV |
| 150 kHz – 30 MHz | 10 kHz | 30 kHz | 9 kHz | QP/AV |
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz | 120 kHz | QP |

1GHz- 40GHz:

| Measurement | Duty cycle | RBW | Video B/W |
|-------------|------------|------|-----------|
| PK | Any | 1MHz | 3 MHz |
| AV | >98% | 1MHz | 10 Hz |
| | <98% | 1MHz | 1/T |

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

3.2.4 Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: $E [\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m

Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB= 6.02 dB

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

For 30MHz-1GHz:

Result = Reading + Factor

For 1GHz-40GHz

Result = Reading + Factor-Distance extrapolation Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.3 Emission Bandwidth:

3.3.1 Applicable Standard

FCC §15.407 (a)

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

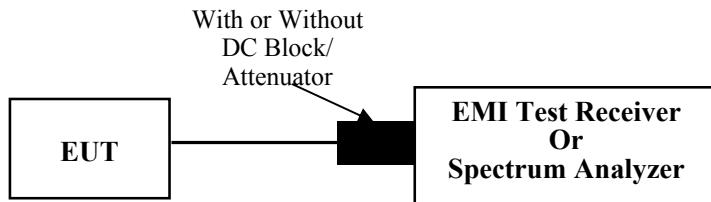
FCC §15.407 (e)

Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

FCC §15.407 (h)

(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

3.3.2 EUT Setup



3.3.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = peak.
- d) Trace mode = max hold
- e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6 dB emission bandwidth:

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.4 Maximum Conducted Output Power:

3.4.1 Applicable Standard

FCC §15.407(a) (1)

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz 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.

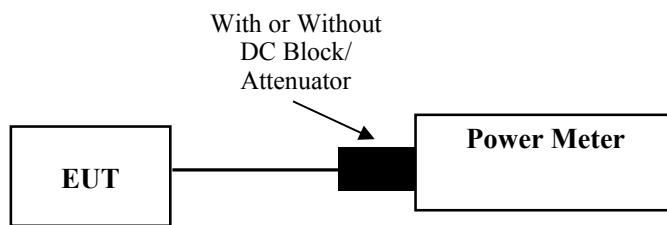
FCC §15.407(a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.2

Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

3.5 Maximum Power Spectral Density:

3.5.1 Applicable Standard

FCC §15.407(a) (1)

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz 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.

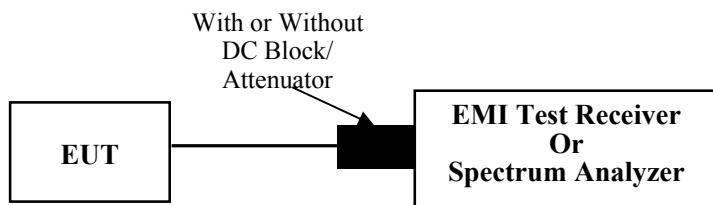
FCC §15.407(a) (2)

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

FCC §15.407(a) (3)(i)

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle $\geq 98\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 **Alternative** should be applied.

Duty cycle $< 98\%$, duty cycle variations are less than $\pm 2\%$

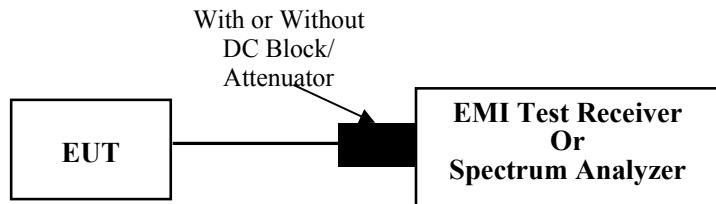
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 **Alternative** should be applied.

Duty cycle $< 98\%$, duty cycle variations exceed $\pm 2\%$

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

3.7 Duty Cycle:

3.7.1 EUT Setup



3.7.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.
- 3) Set VBW \geq RBW. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu\text{s}$.)

3.8 Antenna Requirement

3.8.1 Applicable Standard

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Judgment

Result: Compliant. Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

| | | | |
|----------------|-------------|--------------|---|
| Serial Number: | 2BQ8-1 | Test Date: | 2023/10/07 |
| Test Site: | CE | Test Mode: | Transmitting (Tested at maximum output power mode 802.11n ht20 5180MHz) |
| Tester: | David Huang | Test Result: | Pass |

Environmental Conditions:

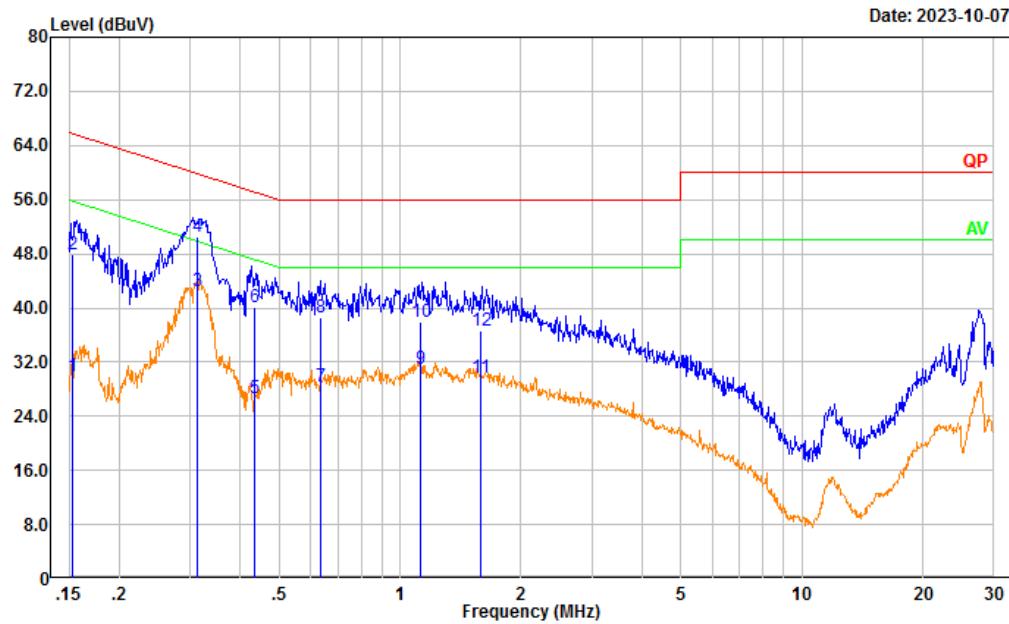
| | | | | | |
|-------------------|------|------------------------|----|---------------------|-------|
| Temperature: (°C) | 25.4 | Relative Humidity: (%) | 55 | ATM Pressure: (kPa) | 100.5 |
|-------------------|------|------------------------|----|---------------------|-------|

Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|---------|---------------|------------------|----------------------|
| R&S | LISN | ENV216 | 101134 | 2023/03/31 | 2024/03/30 |
| R&S | EMI Test Receiver | ESR3 | 102726 | 2023/03/31 | 2024/03/30 |
| MICRO-COAX | Coaxial Cable | UTIFLEX | C-0200-01 | 2023/08/06 | 2024/08/05 |
| Audix | Test Software | E3 | 190306 (V9) | N/A | N/A |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Project No.: CR230956606-RF
Tester: David Huang
Port: Line
Note:



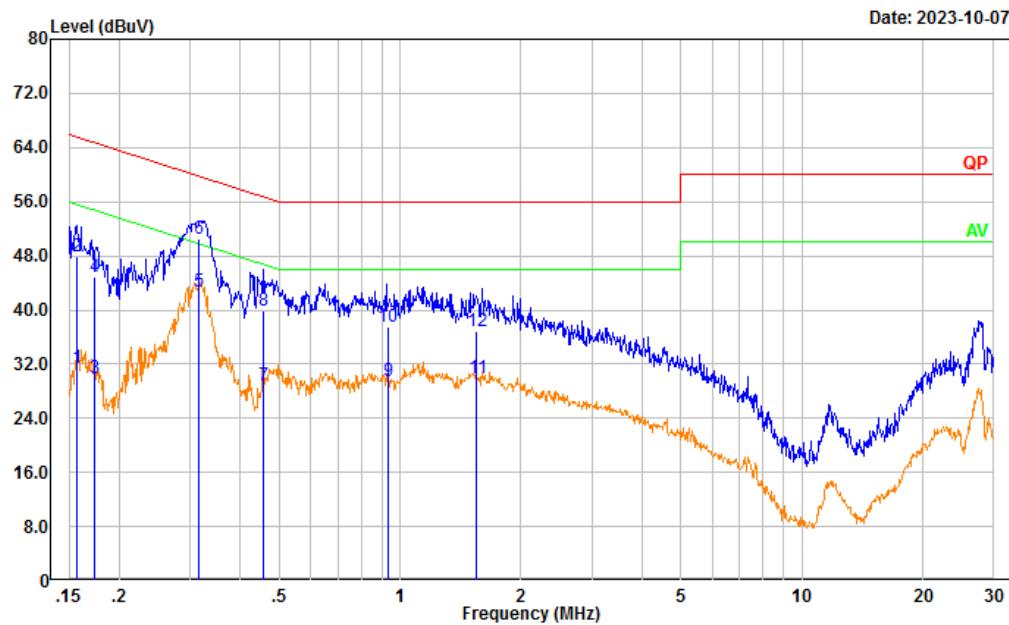
| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB) | Result (dB μ V) | Limit (dB μ V) | Margin (dB) | Detector |
|-------|-----------------|----------------------|-------------|---------------------|--------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 0.153 | 20.39 | 9.61 | 30.00 | 55.86 | 25.86 | Average |
| 2 | 0.153 | 38.36 | 9.61 | 47.97 | 65.86 | 17.89 | QP |
| 3 | 0.313 | 32.94 | 9.61 | 42.55 | 49.89 | 7.34 | Average |
| 4 | 0.313 | 40.88 | 9.61 | 50.49 | 59.89 | 9.40 | QP |
| 5 | 0.433 | 16.99 | 9.61 | 26.60 | 47.20 | 20.60 | Average |
| 6 | 0.433 | 30.43 | 9.61 | 40.04 | 57.20 | 17.16 | QP |
| 7 | 0.633 | 18.85 | 9.62 | 28.47 | 46.00 | 17.53 | Average |
| 8 | 0.633 | 29.05 | 9.62 | 38.67 | 56.00 | 17.33 | QP |
| 9 | 1.128 | 21.29 | 9.62 | 30.91 | 46.00 | 15.09 | Average |
| 10 | 1.128 | 28.27 | 9.62 | 37.89 | 56.00 | 18.11 | QP |
| 11 | 1.586 | 20.12 | 9.63 | 29.75 | 46.00 | 16.25 | Average |
| 12 | 1.586 | 27.09 | 9.63 | 36.72 | 56.00 | 19.28 | QP |

Project No.: CR230956606-RF

Tester: David Huang

Port: neutral

Note:



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB) | Result (dB μ V) | Limit (dB μ V) | Margin (dB) | Detector |
|-----|-----------------|----------------------|-------------|---------------------|--------------------|-------------|----------|
| 1 | 0.157 | 21.77 | 9.61 | 31.38 | 55.60 | 24.22 | Average |
| 2 | 0.157 | 38.25 | 9.61 | 47.86 | 65.60 | 17.74 | QP |
| 3 | 0.173 | 20.33 | 9.61 | 29.94 | 54.81 | 24.87 | Average |
| 4 | 0.173 | 35.26 | 9.61 | 44.87 | 64.81 | 19.94 | QP |
| 5 | 0.316 | 33.16 | 9.61 | 42.77 | 49.81 | 7.04 | Average |
| 6 | 0.316 | 40.90 | 9.61 | 50.51 | 59.81 | 9.30 | QP |
| 7 | 0.458 | 19.27 | 9.61 | 28.88 | 46.72 | 17.84 | Average |
| 8 | 0.458 | 30.25 | 9.61 | 39.86 | 56.72 | 16.86 | QP |
| 9 | 0.931 | 19.88 | 9.62 | 29.50 | 46.00 | 16.50 | Average |
| 10 | 0.931 | 27.86 | 9.62 | 37.48 | 56.00 | 18.52 | QP |
| 11 | 1.553 | 20.38 | 9.63 | 30.01 | 46.00 | 15.99 | Average |
| 12 | 1.553 | 27.31 | 9.63 | 36.94 | 56.00 | 19.06 | QP |

4.2 Radiation Spurious Emissions

| | | | |
|----------------|---------------------|--------------|----------------------|
| Serial Number: | 2BQ8-1 | Test Date: | 2023/10/9~2023/11/27 |
| Test Site: | 966-1, 966-2 | Test Mode: | Transmitting |
| Tester: | Jeff Luo, coco Tian | Test Result: | Pass |

| Environmental Conditions: | | | | | |
|----------------------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature: (°C) | 25.1~26.3 | Relative Humidity: (%) | 55~62 | ATM Pressure: (kPa) | 100.7~101.3 |

Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--|---------------------------------|-----------------------|---------------|------------------|----------------------|
| Radiation Spurious Emissions Below 1GHz | | | | | |
| EMCO | Passive Loop Antenna | 6512 | 9706-1209 | 2023/02/15 | 2026/02/14 |
| Sunol Sciences | Antenna | JB6 | A082520-5 | 2020/10/19 | 2023/10/18 |
| R&S | EMI Test Receiver | ESR3 | 102724 | 2023/3/31 | 2024/3/30 |
| TIMES MICROWAVE | Coaxial Cable | LMR-600-UltraFlex | C-0470-02 | 2023/7/16 | 2024/7/15 |
| TIMES MICROWAVE | Coaxial Cable | LMR-600-UltraFlex | C-0780-01 | 2023/7/16 | 2024/7/15 |
| Sonoma | Amplifier | 310N | 186165 | 2023/7/16 | 2024/7/15 |
| Audix | Test Software | E3 | 201021 (V9) | N/A | N/A |
| Radiation Spurious Emissions Above 1GHz | | | | | |
| AH | Double Ridge Guide Horn Antenna | SAS-571 | 1394 | 2023/2/22 | 2026/2/21 |
| R&S | Spectrum Analyzer | FSV40 | 101591 | 2023/3/31 | 2024/3/30 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-1200-70U300 | 217423-008 | 2023/8/6 | 2024/8/5 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-2362-300300 | 235780-001 | 2023/8/6 | 2024/8/5 |
| Mini | Pre-amplifier | ZVA-183-S+ | 5969001149 | 2023/11/8 | 2024/11/7 |
| Audix | Test Software | E3 | 201021 (V9) | N/A | N/A |
| PASTERNAK | Horn Antenna | PE9852/2F-20 | 112002 | 2021/2/5 | 2024/2/4 |
| Quinstar | Preamplifier | QLW-18405536-JO | 15964001005 | 2023/9/15 | 2024/9/14 |
| MICRO-COAX | Coaxial Cable | UFB142A-1-2362-200200 | 235772-001 | 2023/8/6 | 2024/8/5 |
| E-Microwave | Band Rejection Filter | 5150-5850MHz | OE01902423 | 2023/8/6 | 2024/8/5 |
| Mini Circuits | High Pass Filter | VHF-6010+ | 31119 | 2023/8/6 | 2024/8/5 |
| PASTERNAK | Horn Antenna | PE9850/2F-20 | 072001 | 2021/2/5 | 2024/2/4 |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

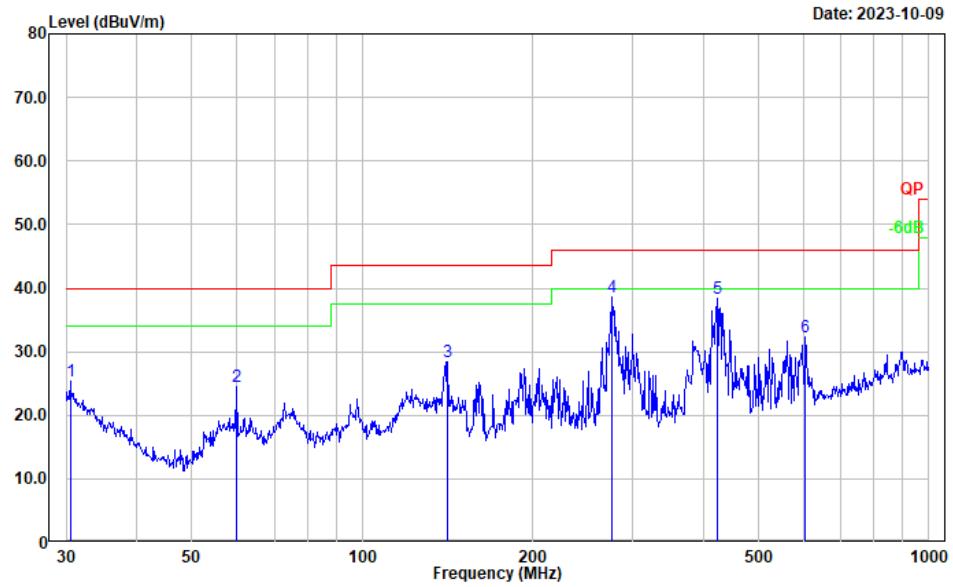
Please refer to the below table and plots.

1) Radiation Spurious Emissions Test Data (9kHz~30MHz)

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

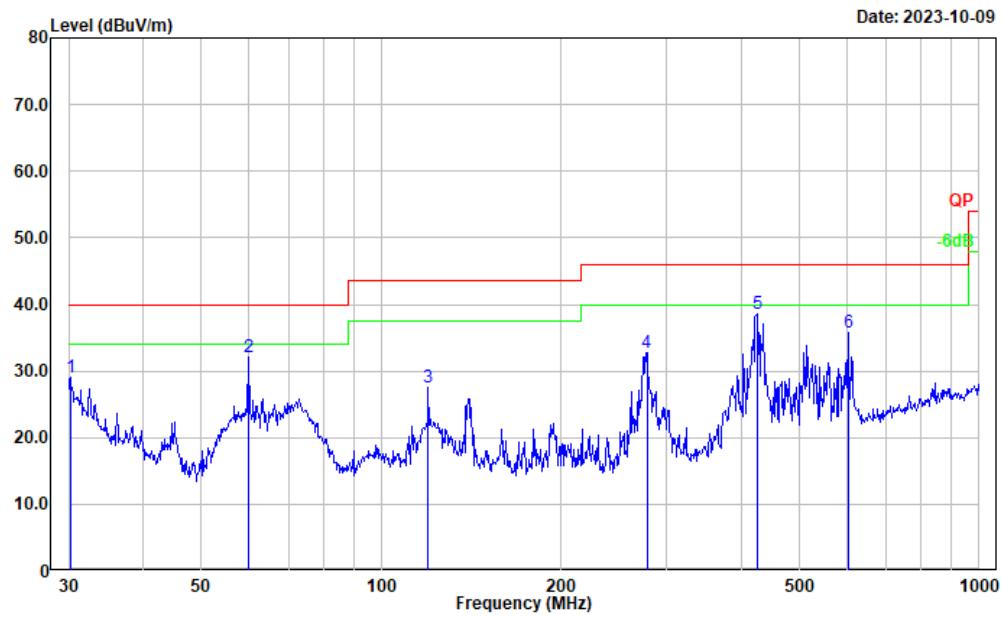
2) Radiation Spurious Emissions Test Data (30MHz-1GHz)
(Tested at maximum output power mode 802.11n ht20 5180MHz)

Project No.: CR230956606-RF
Tester: Jeff
Polarization: horizontal
Note:



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 30.531 | 29.42 | -4.00 | 25.42 | 40.00 | 14.58 | Peak |
| 2 | 60.069 | 41.99 | -17.40 | 24.59 | 40.00 | 15.41 | Peak |
| 3 | 141.330 | 40.39 | -11.93 | 28.46 | 43.50 | 15.04 | Peak |
| 4 | 276.124 | 50.45 | -11.84 | 38.61 | 46.00 | 7.39 | Peak |
| 5 | 423.540 | 46.10 | -7.77 | 38.33 | 46.00 | 7.67 | Peak |
| 6 | 605.659 | 37.20 | -4.84 | 32.36 | 46.00 | 13.64 | Peak |

Project No.: CR230956606-RF
Tester: Jeff
Polarization: vertical
Note:



3) Radiation Spurious Emissions Test Data (1GHz-40GHz)

5150-5250MHz

802.11a Chain 0:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|--------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Low Channel: 5180MHz | | | | | | | |
| 10360.000 | 32.63 | PK | H | 20.47 | 53.10 | 68.20 | 15.10 |
| 10360.000 | 32.54 | PK | V | 20.47 | 53.01 | 68.20 | 15.19 |
| 15540.000 | 34.38 | PK | H | 24.62 | 59.00 | 74.00 | 15.00 |
| 15540.000 | 21.26 | AV | H | 24.62 | 45.88 | 54.00 | 8.12 |
| 15540.000 | 35.39 | PK | V | 24.62 | 60.01 | 74.00 | 13.99 |
| 15540.000 | 21.28 | AV | V | 24.62 | 45.90 | 54.00 | 8.10 |
| Middle Channel: 5200 MHz | | | | | | | |
| 10400.000 | 32.26 | PK | H | 20.54 | 52.80 | 68.20 | 15.40 |
| 10400.000 | 32.31 | PK | V | 20.54 | 52.85 | 68.20 | 15.35 |
| 15600.000 | 36.21 | PK | H | 24.71 | 60.92 | 74.00 | 13.08 |
| 15600.000 | 23.15 | AV | H | 24.71 | 47.86 | 54.00 | 6.14 |
| 15600.000 | 36.29 | PK | V | 24.71 | 61.00 | 74.00 | 13.00 |
| 15600.000 | 23.51 | AV | V | 24.71 | 48.22 | 54.00 | 5.78 |
| High Channel: 5240 MHz | | | | | | | |
| 10480.000 | 32.56 | PK | H | 20.42 | 52.98 | 68.20 | 15.22 |
| 10480.000 | 32.05 | PK | V | 20.42 | 52.47 | 68.20 | 15.73 |
| 15720.000 | 36.72 | PK | H | 24.82 | 61.54 | 74.00 | 12.46 |
| 15720.000 | 23.62 | AV | H | 24.82 | 48.44 | 54.00 | 5.56 |
| 15720.000 | 35.61 | PK | V | 24.82 | 60.43 | 74.00 | 13.57 |
| 15720.000 | 22.73 | AV | V | 24.82 | 47.55 | 54.00 | 6.45 |

802.11a Chain 1:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|--------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Low Channel: 5180MHz | | | | | | | |
| 10360.000 | 32.63 | PK | H | 20.47 | 53.10 | 68.20 | 15.10 |
| 10360.000 | 32.54 | PK | V | 20.47 | 53.01 | 68.20 | 15.19 |
| 15540.000 | 34.58 | PK | H | 24.62 | 59.20 | 74.00 | 14.80 |
| 15540.000 | 21.58 | AV | H | 24.62 | 46.20 | 54.00 | 7.80 |
| 15540.000 | 34.72 | PK | V | 24.62 | 59.34 | 74.00 | 14.66 |
| 15540.000 | 21.58 | AV | V | 24.62 | 46.20 | 54.00 | 7.80 |
| Middle Channel: 5200 MHz | | | | | | | |
| 10400.000 | 32.61 | PK | H | 14.52 | 47.13 | 68.20 | 21.07 |
| 10400.000 | 32.59 | PK | V | 20.54 | 53.13 | 68.20 | 15.07 |
| 15600.000 | 35.26 | PK | H | 24.71 | 59.97 | 74.00 | 14.03 |
| 15600.000 | 22.97 | AV | H | 24.71 | 47.68 | 54.00 | 6.32 |
| 15600.000 | 36.12 | PK | V | 24.71 | 60.83 | 74.00 | 13.17 |
| 15600.000 | 23.02 | AV | V | 24.71 | 47.73 | 54.00 | 6.27 |
| High Channel: 5240 MHz | | | | | | | |
| 10480.000 | 32.69 | PK | H | 20.42 | 53.11 | 68.20 | 15.09 |
| 10480.000 | 32.38 | PK | V | 20.42 | 52.80 | 68.20 | 15.40 |
| 15720.000 | 37.52 | PK | H | 24.82 | 62.34 | 74.00 | 11.66 |
| 15720.000 | 24.06 | AV | H | 24.82 | 48.88 | 54.00 | 5.12 |
| 15720.000 | 37.64 | PK | V | 24.82 | 62.46 | 74.00 | 11.54 |
| 15720.000 | 24.15 | AV | V | 24.82 | 48.97 | 54.00 | 5.03 |

802.11n ht20 MIMO:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|--------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Low Channel: 5180MHz | | | | | | | |
| 10360.000 | 33.64 | PK | H | 20.47 | 54.11 | 68.20 | 14.09 |
| 10360.000 | 33.75 | PK | V | 20.47 | 54.22 | 68.20 | 13.98 |
| 15540.000 | 36.54 | PK | H | 24.62 | 61.16 | 74.00 | 12.84 |
| 15540.000 | 23.57 | AV | H | 24.62 | 48.19 | 54.00 | 5.81 |
| 15540.000 | 36.64 | PK | V | 24.62 | 61.26 | 74.00 | 12.74 |
| 15540.000 | 23.58 | AV | V | 24.62 | 48.20 | 54.00 | 5.80 |
| Middle Channel: 5200 MHz | | | | | | | |
| 10400.000 | 32.67 | PK | H | 20.54 | 53.21 | 68.20 | 14.99 |
| 10400.000 | 32.69 | PK | V | 20.54 | 53.23 | 68.20 | 14.97 |
| 15600.000 | 36.54 | PK | H | 24.71 | 61.25 | 74.00 | 12.75 |
| 15600.000 | 23.57 | AV | H | 24.71 | 48.28 | 54.00 | 5.72 |
| 15600.000 | 36.69 | PK | V | 24.71 | 61.40 | 74.00 | 12.60 |
| 15600.000 | 23.51 | AV | V | 24.71 | 48.22 | 54.00 | 5.78 |
| High Channel: 5240 MHz | | | | | | | |
| 10480.000 | 33.15 | PK | H | 20.42 | 53.57 | 68.20 | 14.63 |
| 10480.000 | 32.97 | PK | V | 20.42 | 53.39 | 68.20 | 14.81 |
| 15720.000 | 36.59 | PK | H | 24.82 | 61.41 | 74.00 | 12.59 |
| 15720.000 | 23.44 | AV | H | 24.82 | 48.26 | 54.00 | 5.74 |
| 15720.000 | 37.24 | PK | V | 24.82 | 62.06 | 74.00 | 11.94 |
| 15720.000 | 24.11 | AV | V | 24.82 | 48.93 | 54.00 | 5.07 |

802.11n ht40 MIMO:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Low Channel: 5190 MHz | | | | | | | |
| 10380.000 | 33.16 | PK | H | 20.51 | 53.67 | 68.20 | 14.53 |
| 10380.000 | 33.27 | PK | V | 20.51 | 53.78 | 68.20 | 14.42 |
| 15570.000 | 35.25 | PK | H | 24.67 | 59.92 | 74.00 | 14.08 |
| 15570.000 | 22.47 | AV | H | 24.67 | 47.14 | 54.00 | 6.86 |
| 15570.000 | 35.69 | PK | V | 24.67 | 60.36 | 74.00 | 13.64 |
| 15570.000 | 22.61 | AV | V | 24.67 | 47.28 | 54.00 | 6.72 |
| High Channel: 5230 MHz | | | | | | | |
| 10460.000 | 32.97 | PK | H | 20.45 | 53.42 | 68.20 | 14.78 |
| 10460.000 | 32.47 | PK | V | 20.45 | 52.92 | 68.20 | 15.28 |
| 15690.000 | 37.02 | PK | H | 24.77 | 61.79 | 74.00 | 12.21 |
| 15690.000 | 24.03 | AV | H | 24.77 | 48.80 | 54.00 | 5.20 |
| 15690.000 | 37.12 | PK | V | 24.77 | 61.89 | 74.00 | 12.11 |
| 15690.000 | 23.15 | AV | V | 24.77 | 47.92 | 54.00 | 6.08 |

802.11ac vht80 MIMO:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|--------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Middle Channel: 5210 MHz | | | | | | | |
| 10420.000 | 32.68 | PK | H | 20.51 | 53.19 | 68.20 | 15.01 |
| 10420.000 | 32.75 | PK | V | 20.51 | 53.26 | 68.20 | 14.94 |
| 15630.000 | 36.62 | PK | H | 24.73 | 61.35 | 74.00 | 12.65 |
| 15630.000 | 23.52 | AV | H | 24.73 | 48.25 | 54.00 | 5.75 |
| 15630.000 | 36.61 | PK | V | 24.73 | 61.34 | 74.00 | 12.66 |
| 15630.000 | 23.73 | AV | V | 24.73 | 48.46 | 54.00 | 5.54 |

5725-5850MHz:**802.11a Chain 0:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|--------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Low Channel: 5745MHz | | | | | | | |
| 11490.000 | 32.89 | PK | H | 21.49 | 54.38 | 74.00 | 19.62 |
| 11490.000 | 19.76 | AV | H | 21.49 | 41.25 | 54.00 | 12.75 |
| 11490.000 | 32.84 | PK | V | 21.49 | 54.33 | 74.00 | 19.67 |
| 11490.000 | 19.88 | AV | V | 21.49 | 41.37 | 54.00 | 12.63 |
| 17235.000 | 32.79 | PK | H | 28.71 | 61.50 | 68.20 | 6.70 |
| 17235.000 | 32.86 | PK | V | 28.71 | 61.57 | 68.20 | 6.63 |
| Middle Channel: 5785 MHz | | | | | | | |
| 11570.000 | 32.84 | PK | H | 21.71 | 54.55 | 74.00 | 19.45 |
| 11570.000 | 19.71 | AV | H | 21.71 | 41.42 | 54.00 | 12.58 |
| 11570.000 | 32.76 | PK | V | 21.71 | 54.47 | 74.00 | 19.53 |
| 11570.000 | 19.89 | AV | V | 21.71 | 41.60 | 54.00 | 12.40 |
| 17355.000 | 32.58 | PK | H | 29.35 | 61.93 | 68.20 | 6.27 |
| 17355.000 | 32.67 | PK | V | 29.35 | 62.02 | 68.20 | 6.18 |
| High Channel: 5825 MHz | | | | | | | |
| 11650.000 | 32.76 | PK | H | 22.04 | 54.80 | 74.00 | 19.20 |
| 11650.000 | 19.56 | AV | H | 22.04 | 41.60 | 54.00 | 12.40 |
| 11650.000 | 32.73 | PK | V | 22.04 | 54.77 | 74.00 | 19.23 |
| 11650.000 | 19.67 | AV | V | 22.04 | 41.71 | 54.00 | 12.29 |
| 17475.000 | 32.52 | PK | H | 29.89 | 62.41 | 68.20 | 5.79 |
| 17475.000 | 32.49 | PK | V | 29.89 | 62.38 | 68.20 | 5.82 |

802.11a Chain 1:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|--------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Low Channel: 5745MHz | | | | | | | |
| 11490.000 | 32.86 | PK | H | 21.49 | 54.35 | 74.00 | 19.65 |
| 11490.000 | 19.97 | AV | H | 21.49 | 41.46 | 54.00 | 12.54 |
| 11490.000 | 32.68 | PK | V | 21.49 | 54.17 | 74.00 | 19.83 |
| 11490.000 | 19.82 | AV | V | 21.49 | 41.31 | 54.00 | 12.69 |
| 17235.000 | 32.67 | PK | H | 28.71 | 61.38 | 68.20 | 6.82 |
| 17235.000 | 32.89 | PK | V | 28.71 | 61.60 | 68.20 | 6.60 |
| Middle Channel: 5785 MHz | | | | | | | |
| 11570.000 | 32.94 | PK | H | 21.71 | 54.65 | 74.00 | 19.35 |
| 11570.000 | 19.76 | AV | H | 21.71 | 41.47 | 54.00 | 12.53 |
| 11570.000 | 32.85 | PK | V | 21.71 | 54.56 | 74.00 | 19.44 |
| 11570.000 | 19.60 | AV | V | 21.71 | 41.31 | 54.00 | 12.69 |
| 17355.000 | 32.88 | PK | H | 29.35 | 62.23 | 68.20 | 5.97 |
| 17355.000 | 32.91 | PK | V | 29.35 | 62.26 | 68.20 | 5.94 |
| High Channel: 5825 MHz | | | | | | | |
| 11650.000 | 32.79 | PK | H | 22.04 | 54.83 | 74.00 | 19.17 |
| 11650.000 | 19.86 | AV | H | 22.04 | 41.90 | 54.00 | 12.10 |
| 11650.000 | 32.76 | PK | V | 22.04 | 54.80 | 74.00 | 19.20 |
| 11650.000 | 19.54 | AV | V | 22.04 | 41.58 | 54.00 | 12.42 |
| 17475.000 | 32.37 | PK | H | 29.89 | 62.26 | 68.20 | 5.94 |
| 17475.000 | 32.86 | PK | V | 29.89 | 62.75 | 68.20 | 5.45 |

802.11n ht20 MIMO:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|--------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Low Channel: 5745MHz | | | | | | | |
| 11490.000 | 32.87 | PK | H | 21.49 | 54.36 | 74.00 | 19.64 |
| 11490.000 | 19.54 | AV | H | 21.49 | 41.03 | 54.00 | 12.97 |
| 11490.000 | 32.56 | PK | V | 21.49 | 54.05 | 74.00 | 19.95 |
| 11490.000 | 19.64 | AV | V | 21.49 | 41.13 | 54.00 | 12.87 |
| 17235.000 | 32.69 | PK | H | 28.71 | 61.40 | 68.20 | 6.80 |
| 17235.000 | 32.73 | PK | V | 28.71 | 61.44 | 68.20 | 6.76 |
| Middle Channel: 5785 MHz | | | | | | | |
| 11570.000 | 32.84 | PK | H | 21.71 | 54.55 | 74.00 | 19.45 |
| 11570.000 | 19.67 | AV | H | 21.71 | 41.38 | 54.00 | 12.62 |
| 11570.000 | 32.93 | PK | V | 21.71 | 54.64 | 74.00 | 19.36 |
| 11570.000 | 19.87 | AV | V | 21.71 | 41.58 | 54.00 | 12.42 |
| 17355.000 | 32.38 | PK | H | 29.35 | 61.73 | 68.20 | 6.47 |
| 17355.000 | 32.74 | PK | V | 29.35 | 62.09 | 68.20 | 6.11 |
| High Channel: 5825 MHz | | | | | | | |
| 11650.000 | 32.70 | PK | H | 22.04 | 54.74 | 74.00 | 19.26 |
| 11650.000 | 19.54 | AV | H | 22.04 | 41.58 | 54.00 | 12.42 |
| 11650.000 | 32.98 | PK | V | 22.04 | 55.02 | 74.00 | 18.98 |
| 11650.000 | 19.75 | AV | V | 22.04 | 41.79 | 54.00 | 12.21 |
| 17475.000 | 32.97 | PK | H | 29.89 | 62.86 | 68.20 | 5.34 |
| 17475.000 | 33.09 | PK | V | 29.89 | 62.98 | 68.20 | 5.22 |

802.11n ht40 MIMO:

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Low Channel: 5755 MHz | | | | | | | |
| 11510.000 | 32.89 | PK | H | 21.48 | 54.37 | 74.00 | 19.63 |
| 11510.000 | 20.03 | AV | H | 21.48 | 41.51 | 54.00 | 12.49 |
| 11510.000 | 33.01 | PK | V | 21.48 | 54.49 | 74.00 | 19.51 |
| 11510.000 | 22.07 | AV | V | 21.48 | 43.55 | 54.00 | 10.45 |
| 17265.000 | 33.10 | PK | H | 28.79 | 61.89 | 68.20 | 6.31 |
| 17265.000 | 33.21 | PK | V | 28.79 | 62.00 | 68.20 | 6.20 |
| High Channel: 5795 MHz | | | | | | | |
| 11590.000 | 32.37 | PK | H | 21.78 | 54.15 | 74.00 | 19.85 |
| 11590.000 | 20.17 | AV | H | 21.78 | 41.95 | 54.00 | 12.05 |
| 11590.000 | 33.38 | PK | V | 21.78 | 55.16 | 74.00 | 18.84 |
| 11590.000 | 20.15 | AV | V | 21.78 | 41.93 | 54.00 | 12.07 |
| 17385.000 | 33.32 | PK | H | 29.59 | 62.91 | 68.20 | 5.29 |
| 17385.000 | 33.47 | PK | V | 29.59 | 63.06 | 68.20 | 5.14 |

802.11ac vht80 MIMO:

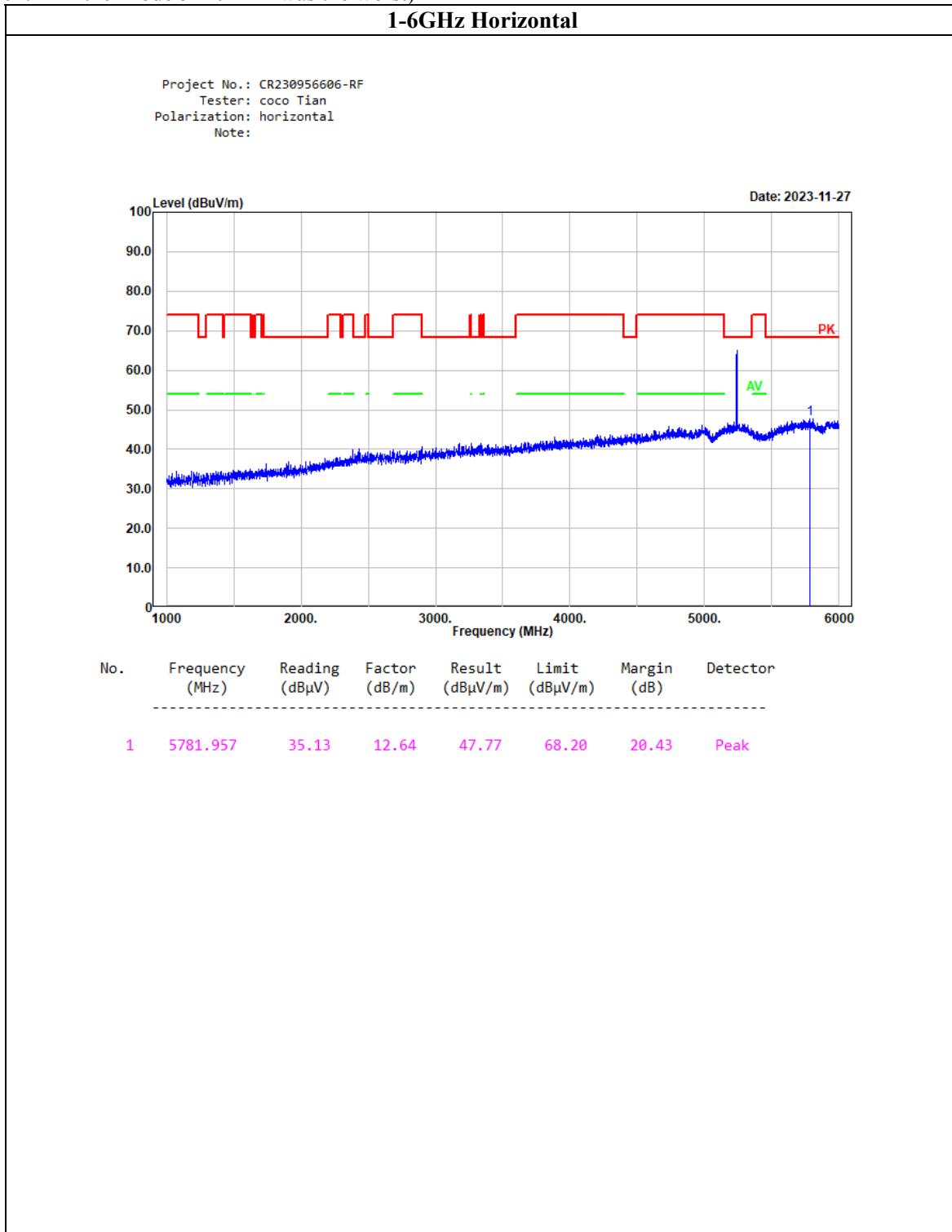
| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|--------------------------|-------------------------|----------|----------------|------------------|--------------------------|-------------------------|----------------|
| | Reading (dB μ V) | Detector | | | | | |
| Middle Channel: 5775 MHz | | | | | | | |
| 11550.000 | 33.13 | PK | H | 21.63 | 54.76 | 74.00 | 19.24 |
| 11550.000 | 20.12 | AV | H | 21.63 | 41.75 | 54.00 | 12.25 |
| 11550.000 | 33.36 | PK | V | 21.63 | 54.99 | 74.00 | 19.01 |
| 11550.000 | 20.23 | AV | V | 21.63 | 41.86 | 54.00 | 12.14 |
| 17325.000 | 32.97 | PK | H | 29.11 | 62.08 | 68.20 | 6.12 |
| 17325.000 | 33.12 | PK | V | 29.11 | 62.23 | 68.20 | 5.97 |

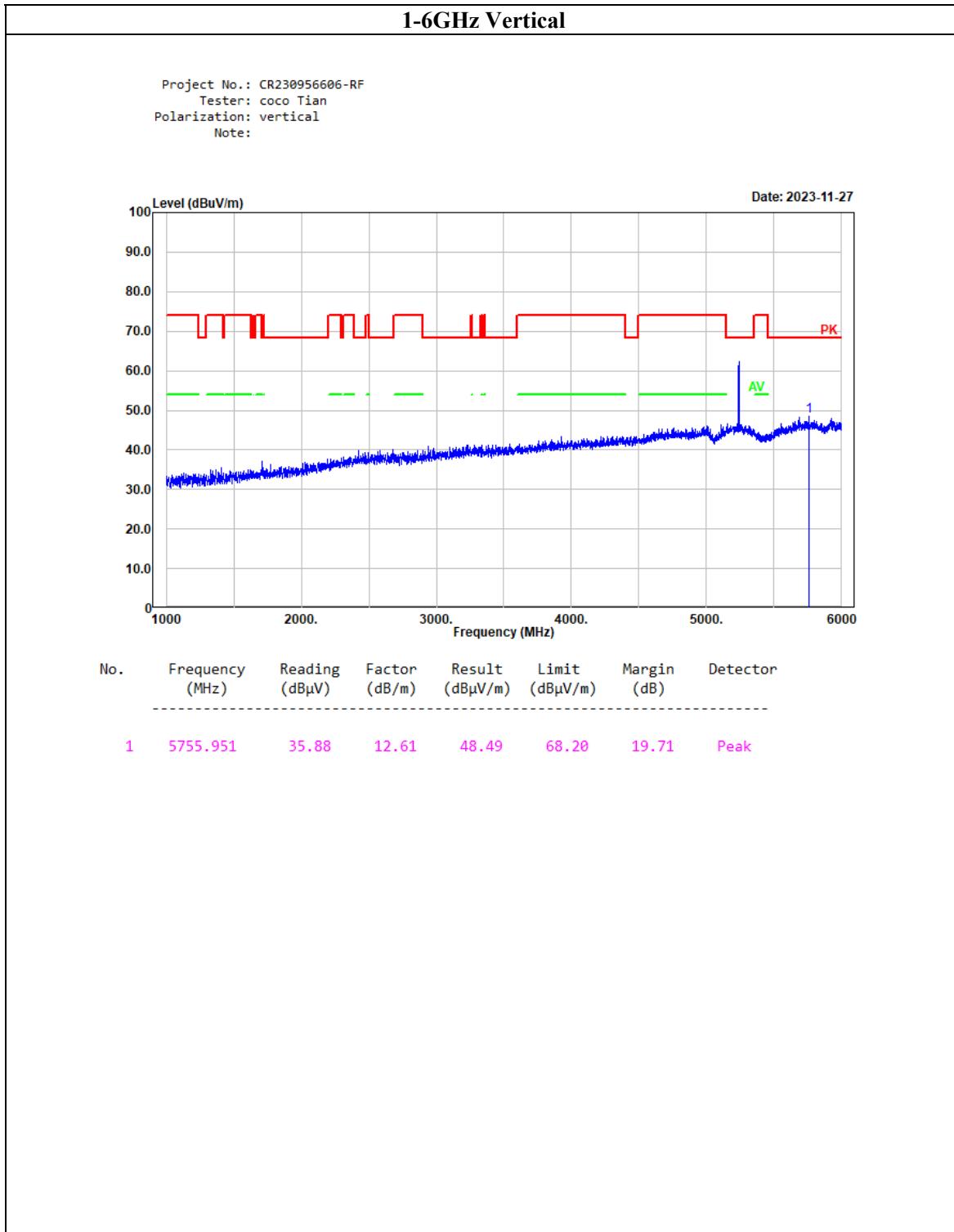
Note:

Result = Reading + Factor- Distance extrapolation Factor

Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

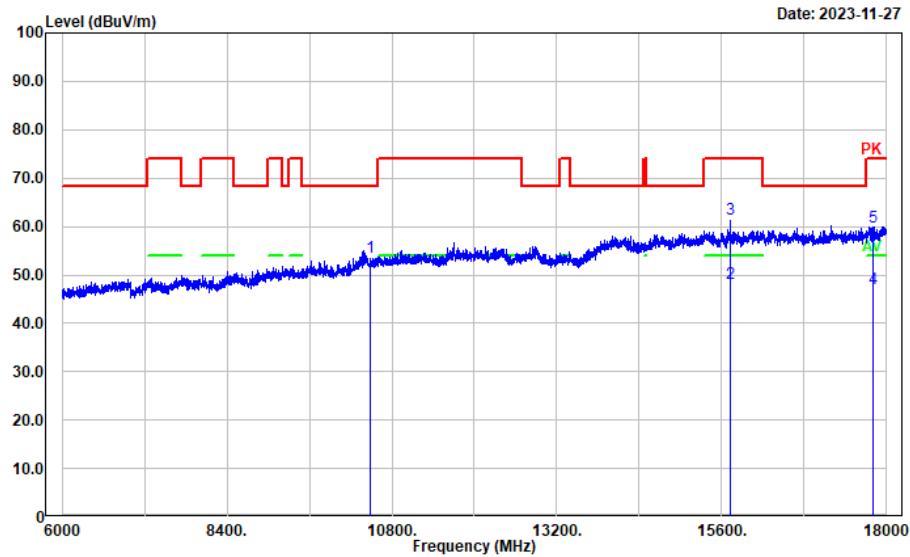
**4) Listed with the worst radiation spurious emissions margin test plots
(802.11n ht20 Mode 5240MHz was the worst)**

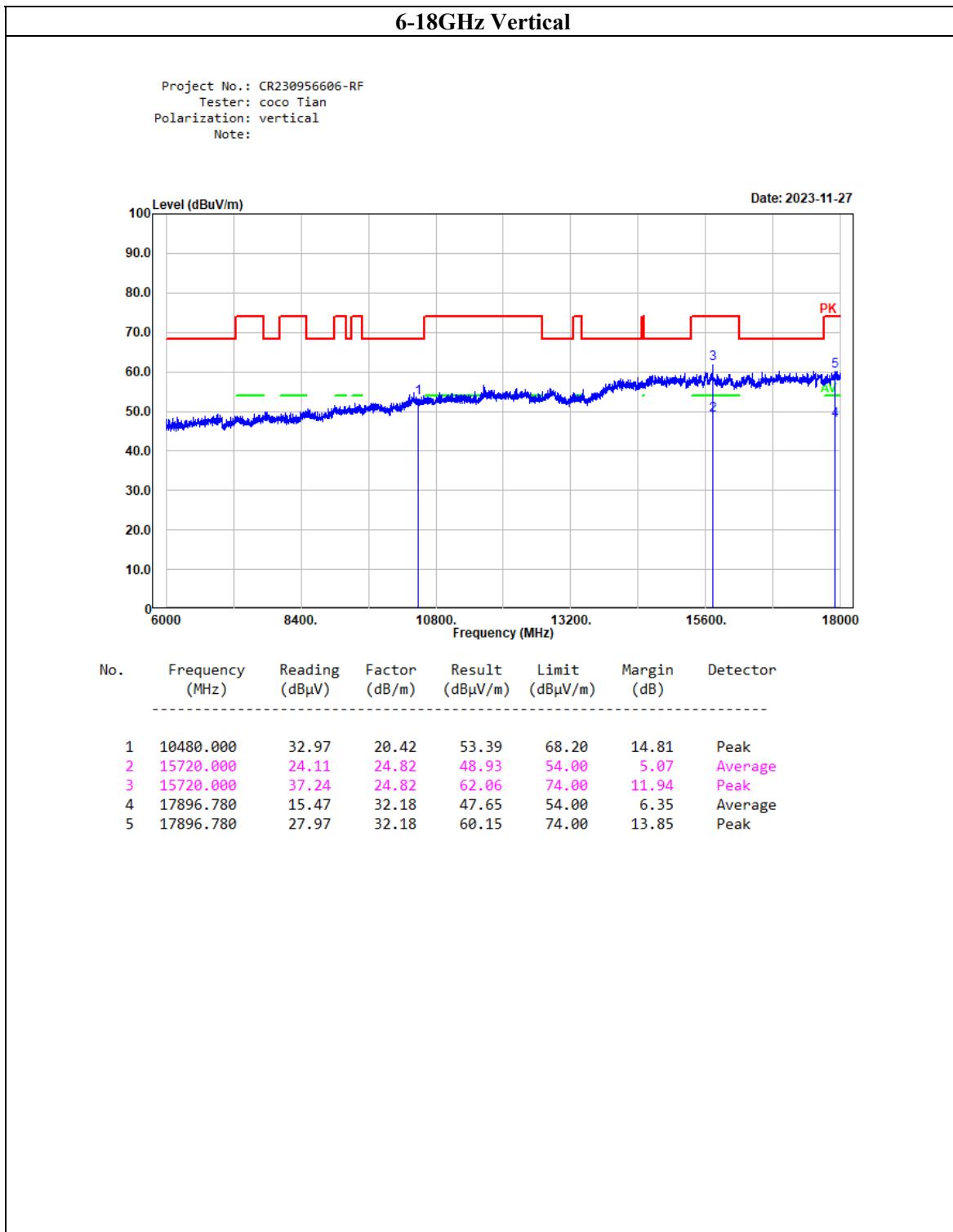




6-18GHz Horizontal

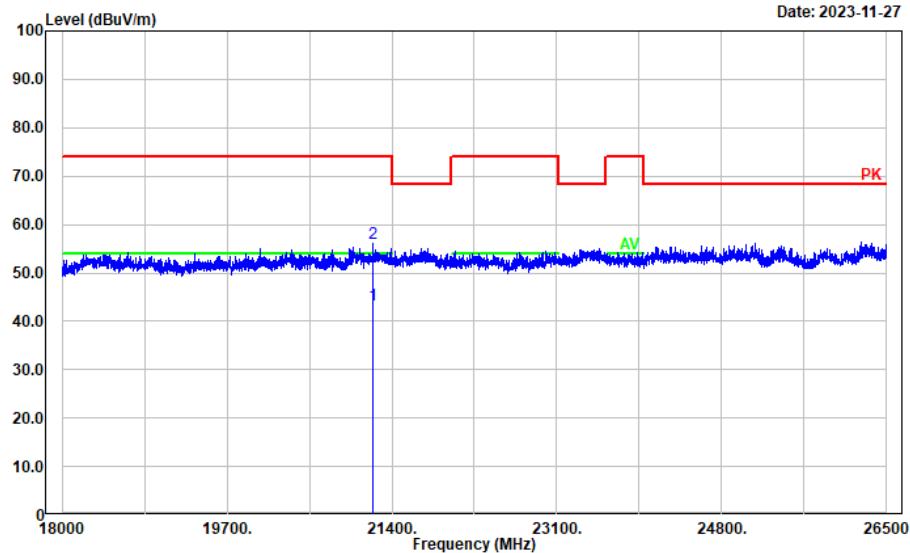
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: horizontal
Note:





18-26.5GHz Horizontal

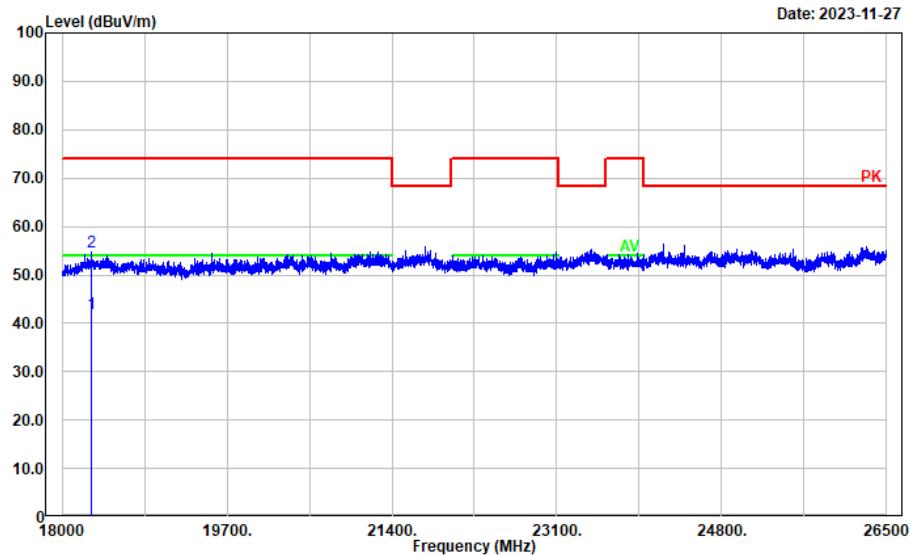
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 21200.040 | 38.54 | 4.81 | 43.35 | 54.00 | 10.65 | Average |
| 2 | 21200.040 | 51.24 | 4.81 | 56.05 | 74.00 | 17.95 | Peak |

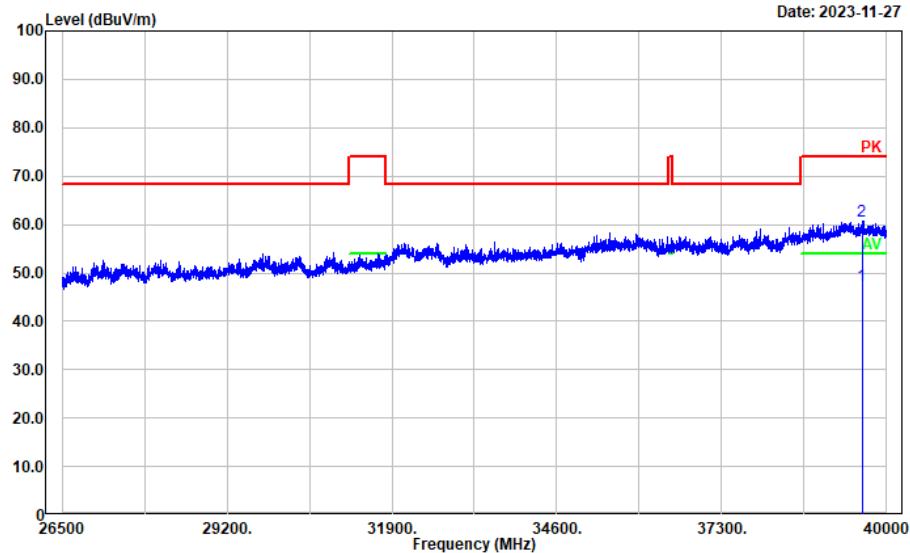
18-26.5GHz Vertical

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: vertical
Note:



26.5-40GHz Horizontal

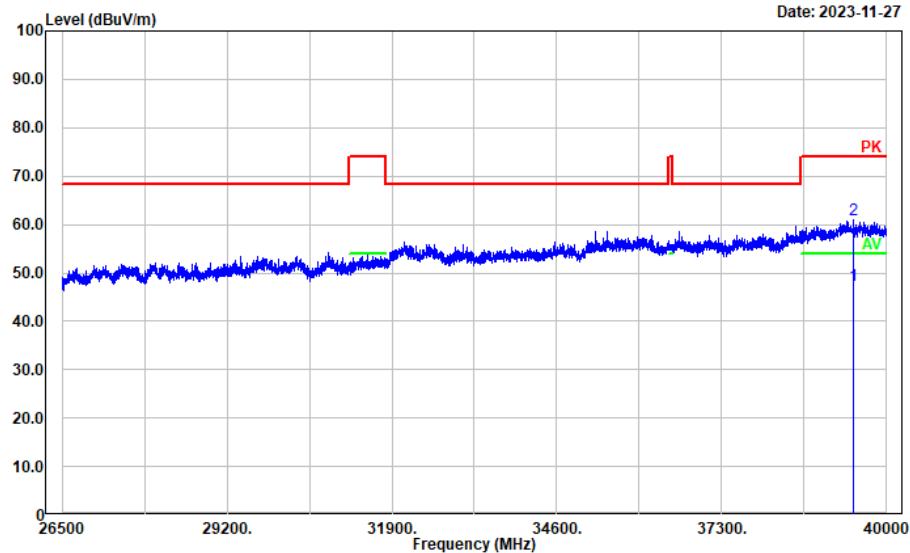
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 39594.920 | 37.58 | 9.77 | 47.35 | 54.00 | 6.65 | Average |
| 2 | 39594.920 | 50.85 | 9.77 | 60.62 | 74.00 | 13.38 | Peak |

26.5-40GHz Vertical

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: vertical
Note:

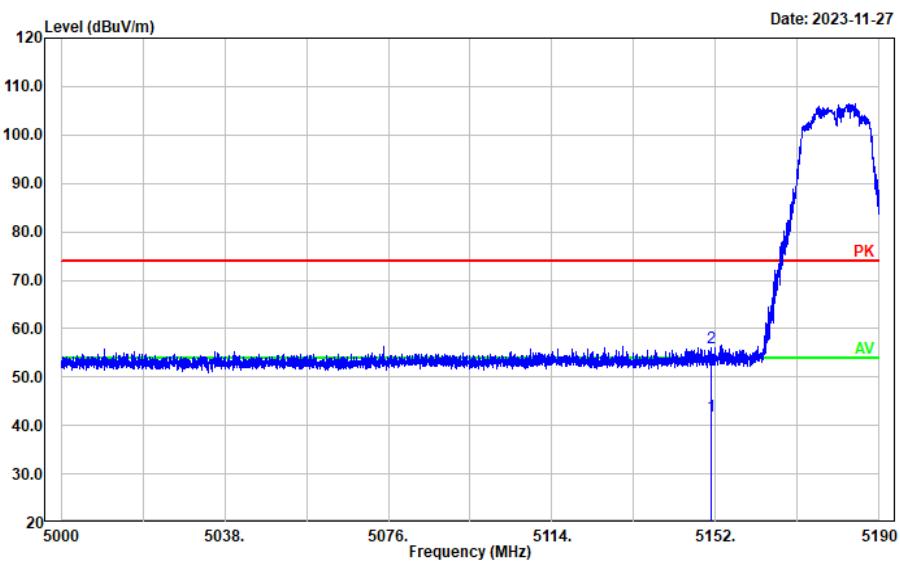


| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 39457.190 | 37.35 | 10.18 | 47.53 | 54.00 | 6.47 | Average |
| 2 | 39457.190 | 50.75 | 10.18 | 60.93 | 74.00 | 13.07 | Peak |

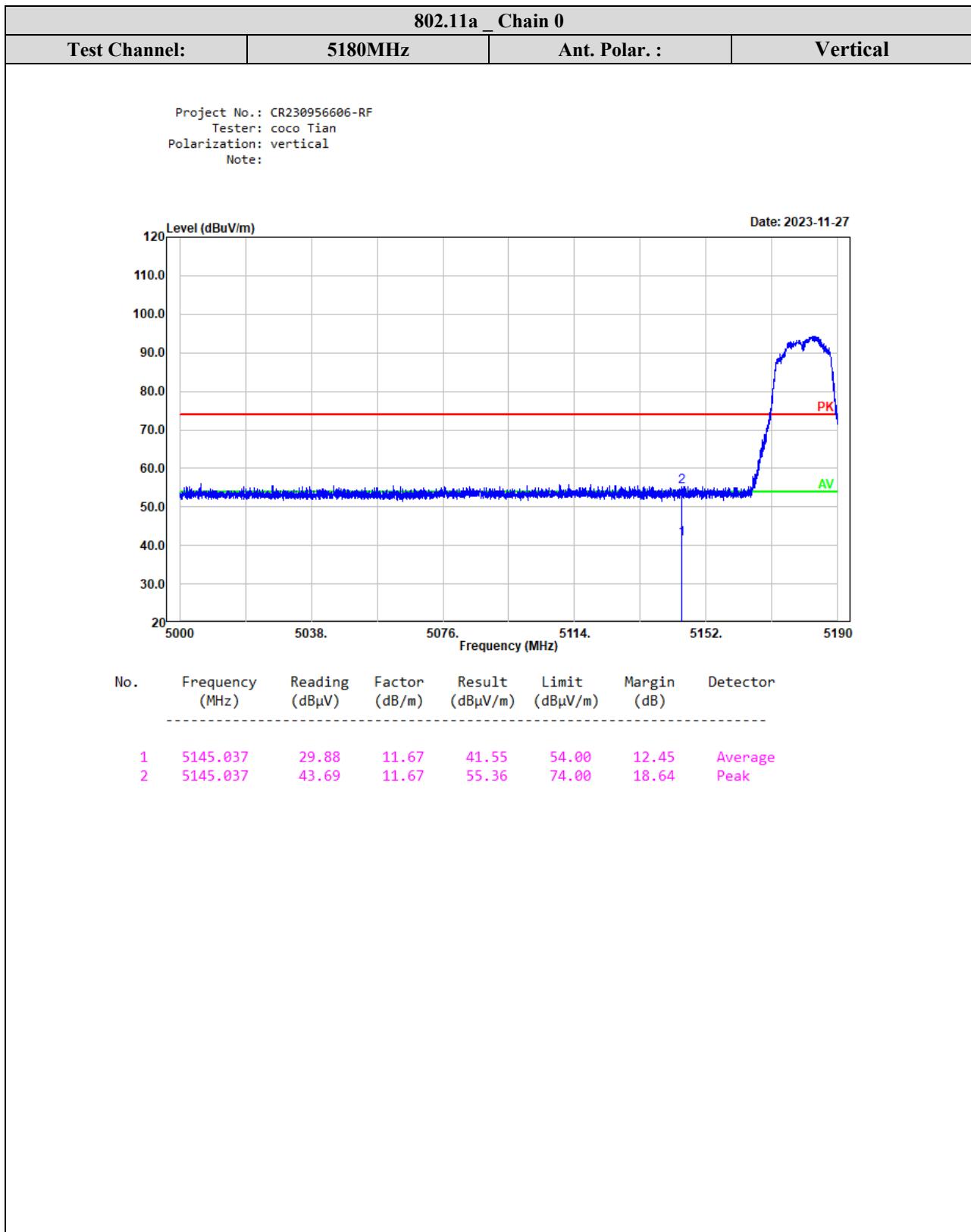
**5) Band Edge Measurements (Radiated)
5150~5250MHz****802.11a _ Chain 0**

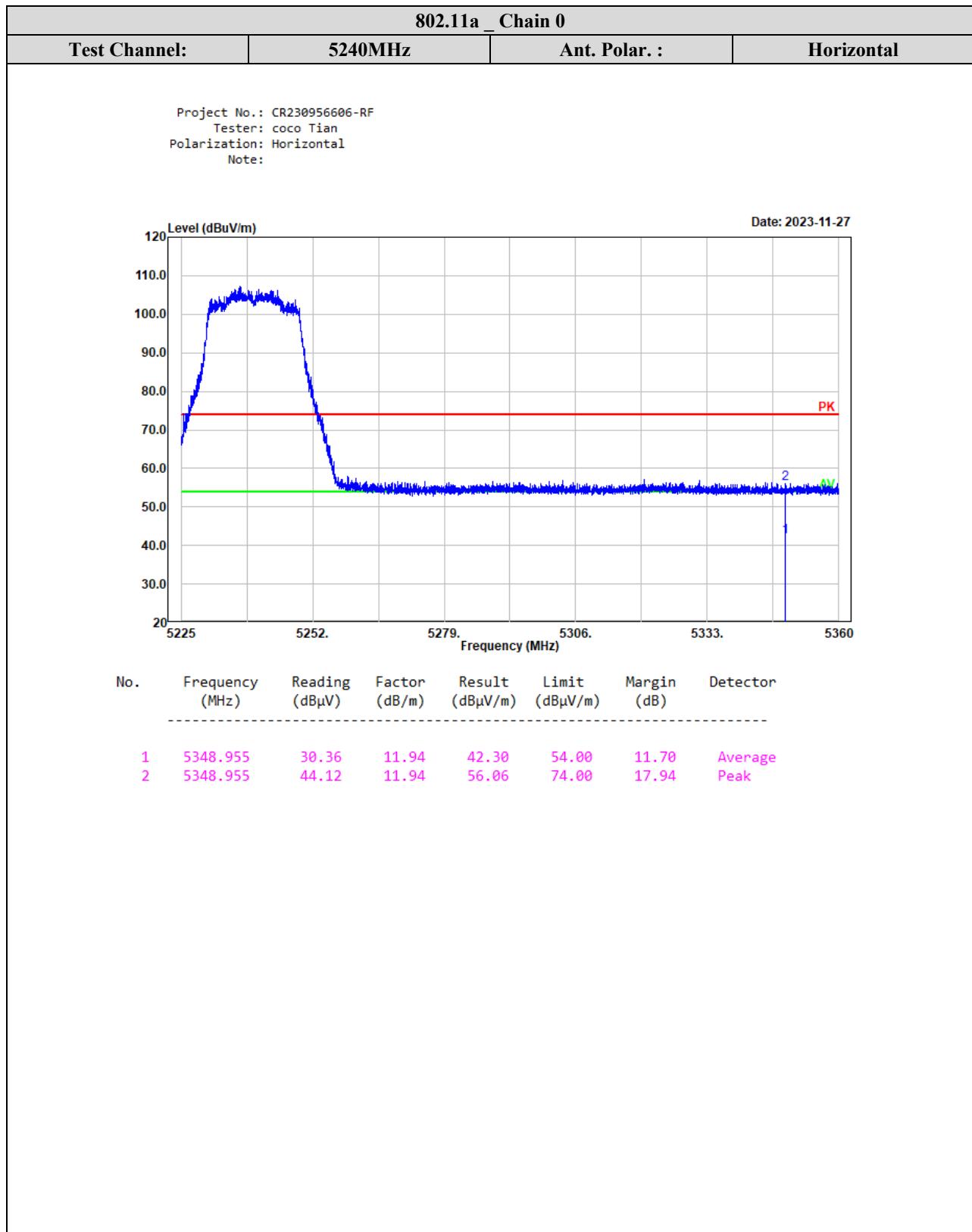
| | | | |
|---------------|---------|---------------|------------|
| Test Channel: | 5180MHz | Ant. Polar. : | Horizontal |
|---------------|---------|---------------|------------|

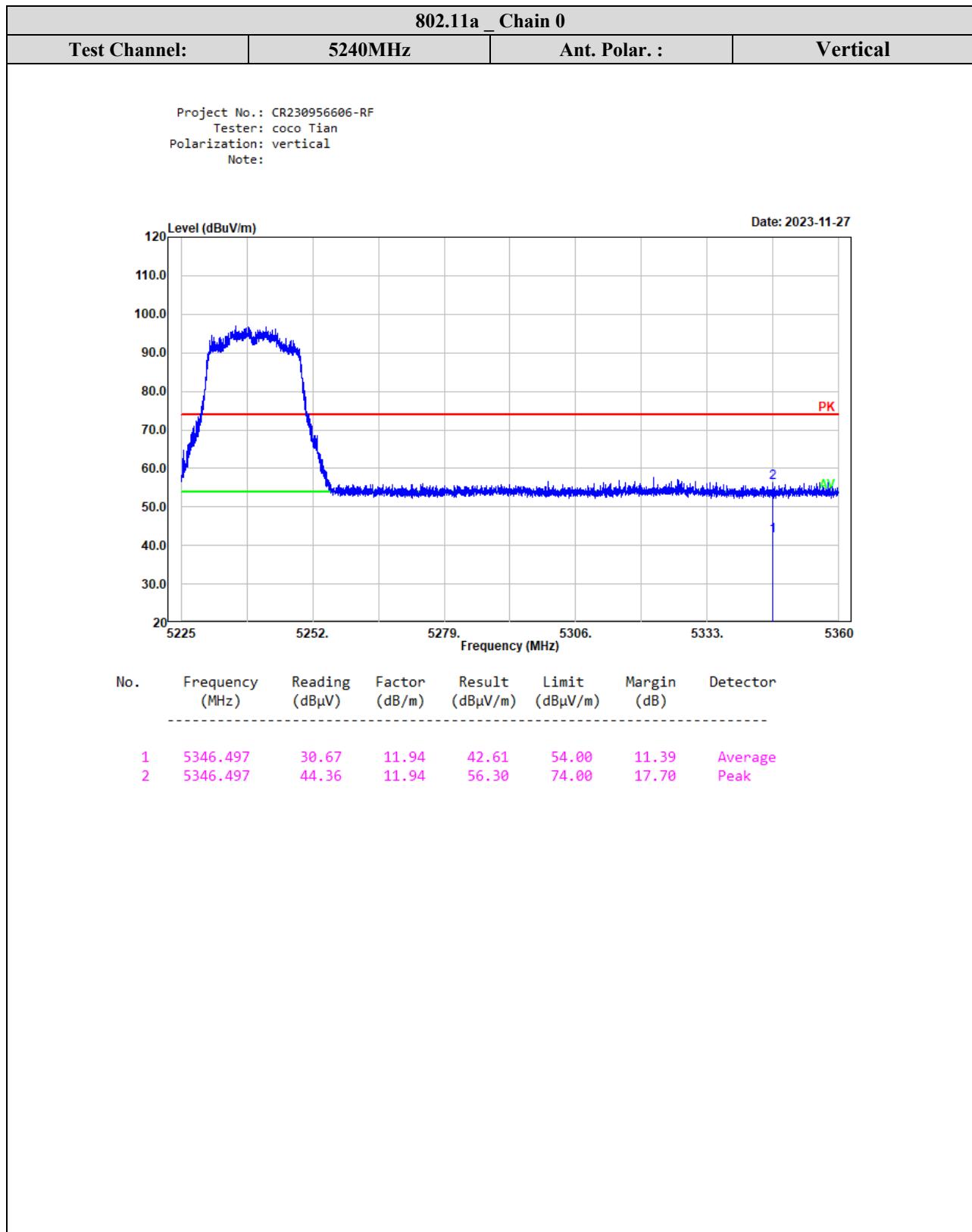
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:

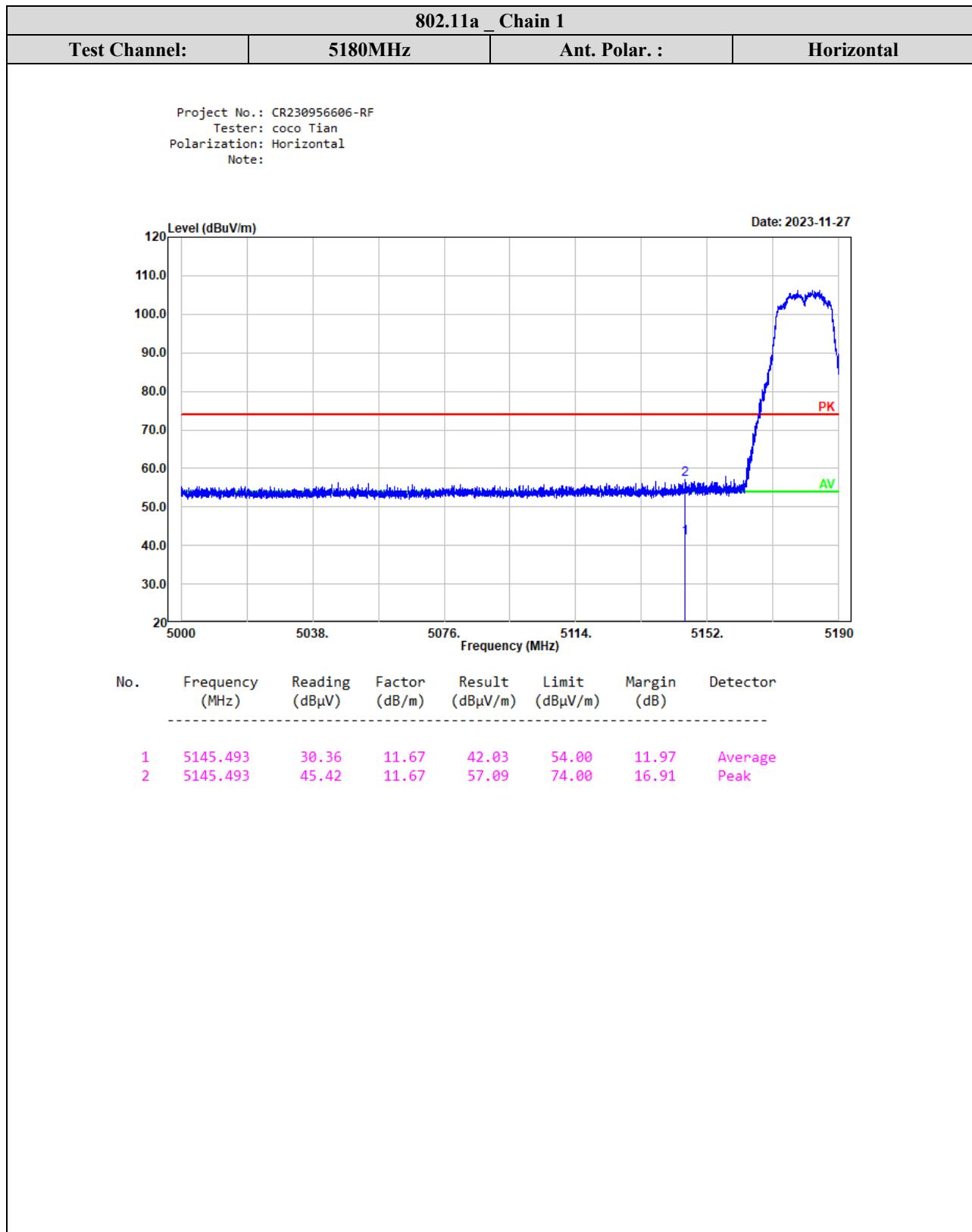


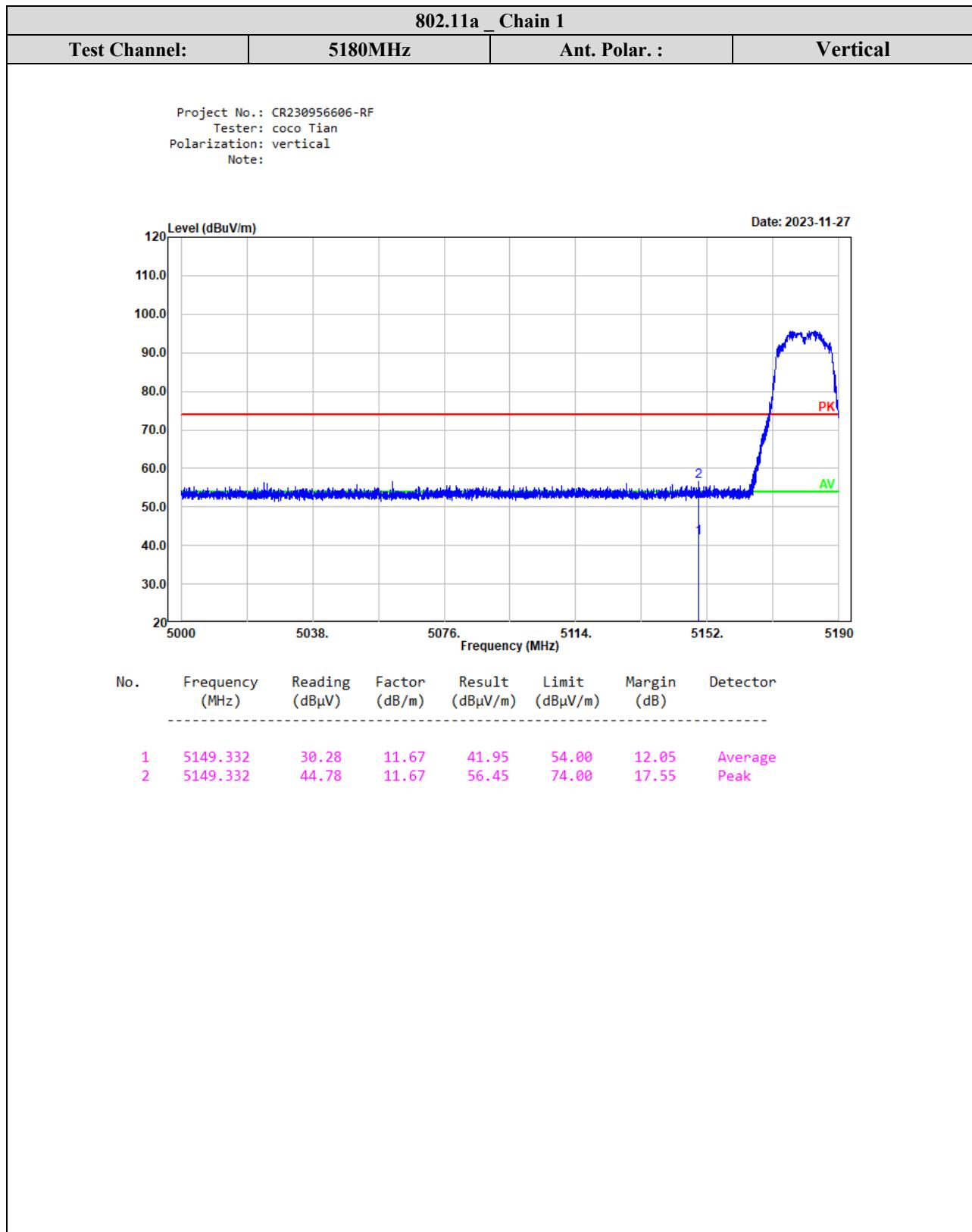
| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 5150.928 | 30.37 | 11.67 | 42.04 | 54.00 | 11.96 | Average |
| 2 | 5150.928 | 44.49 | 11.67 | 56.16 | 74.00 | 17.84 | Peak |

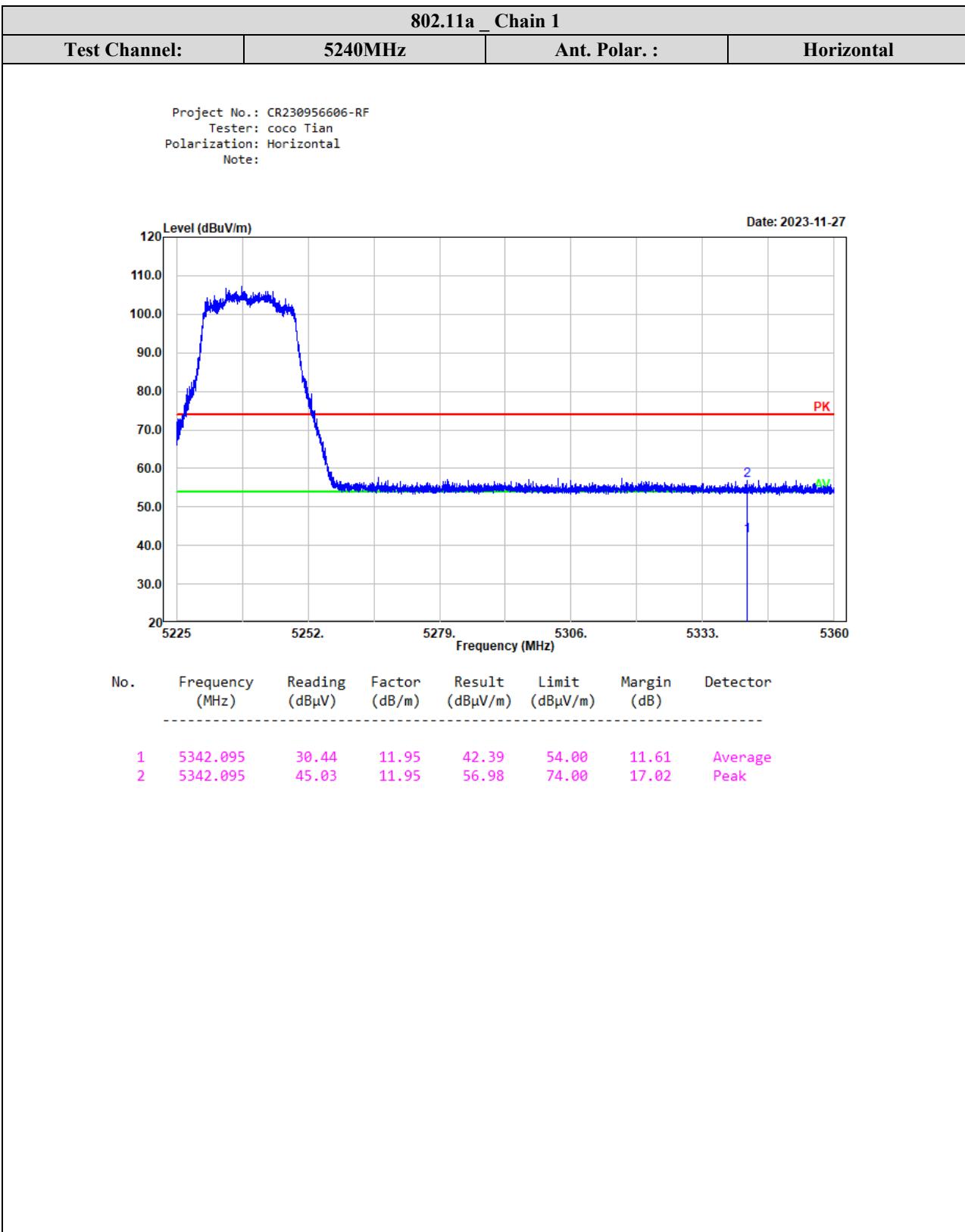


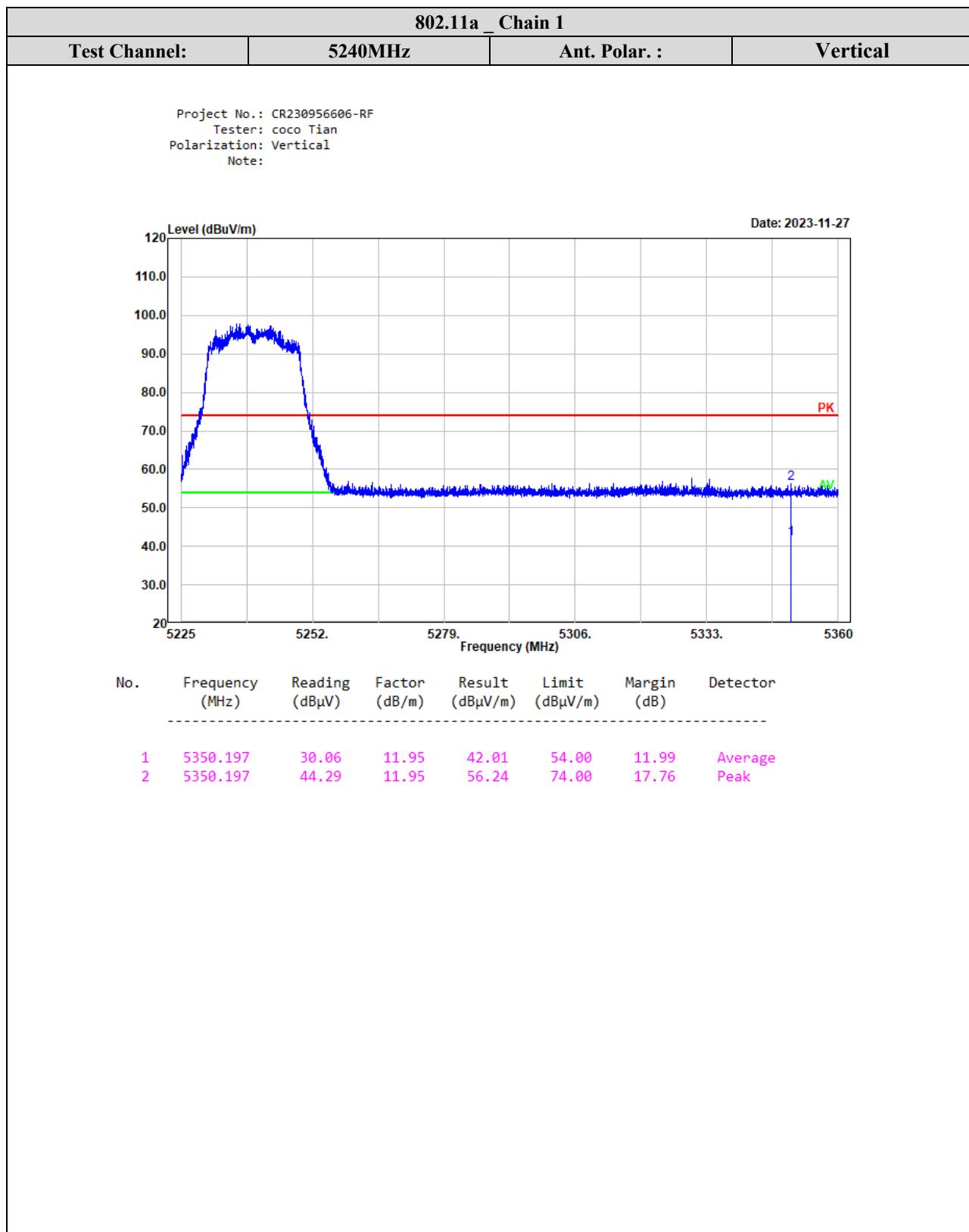








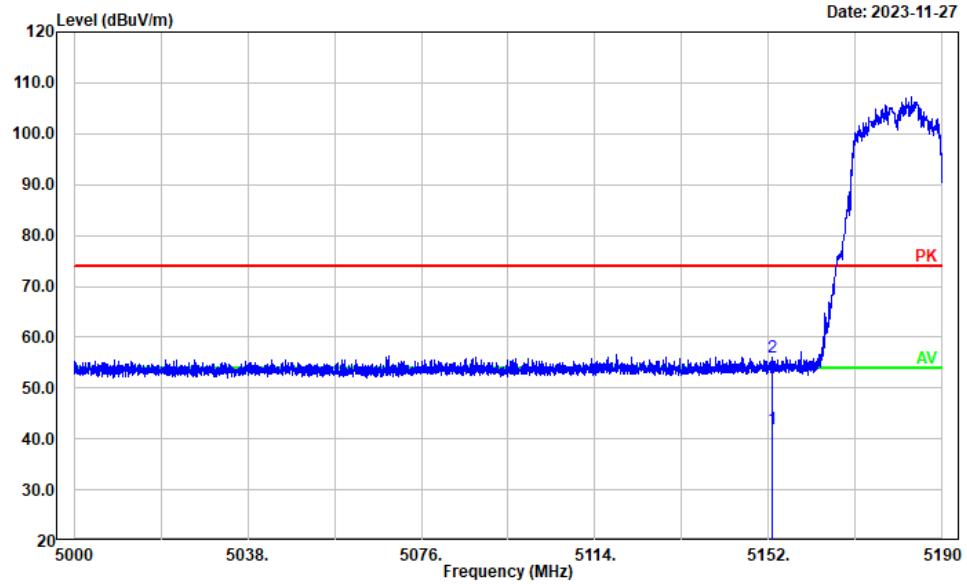




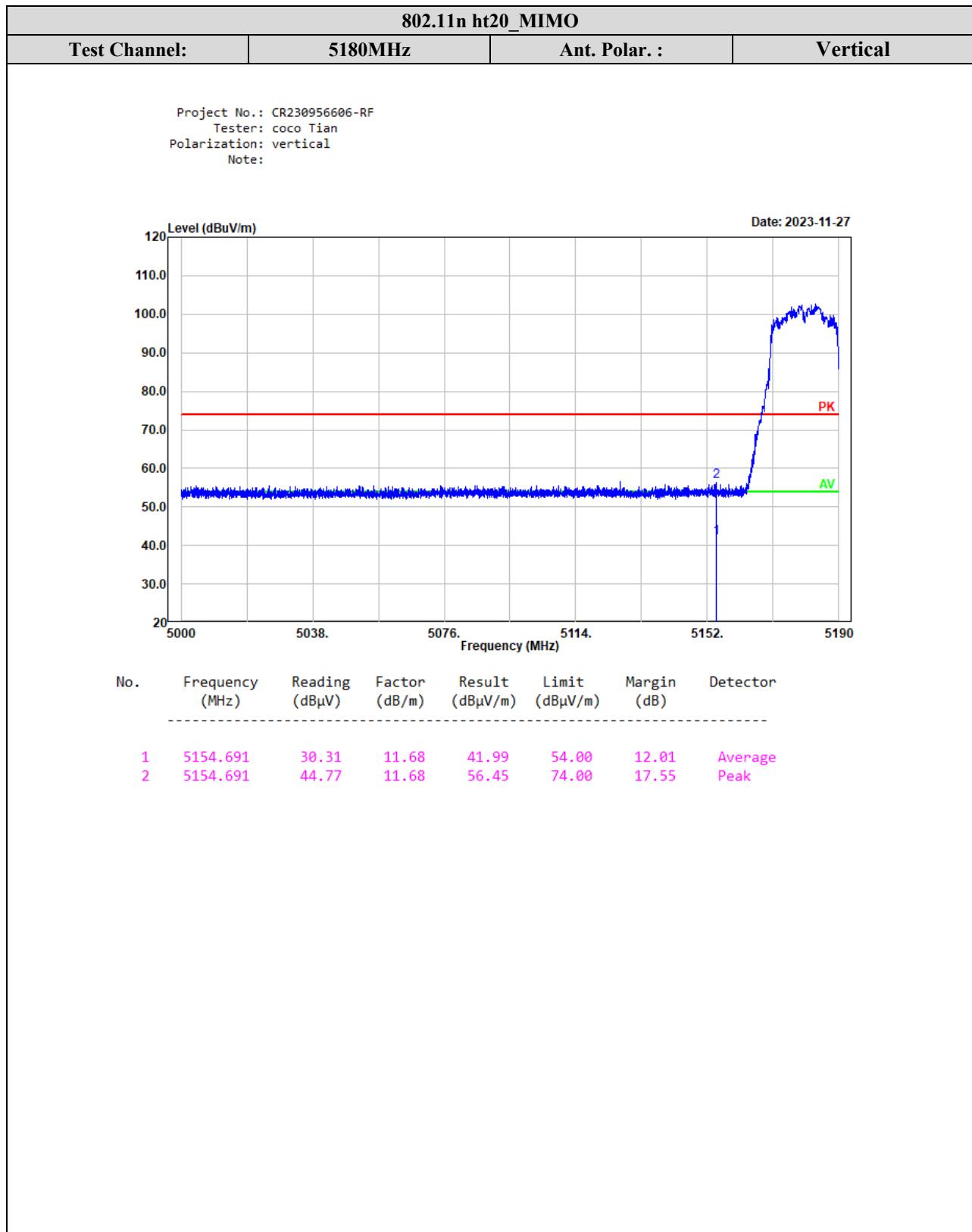
802.11n ht20_MIMO

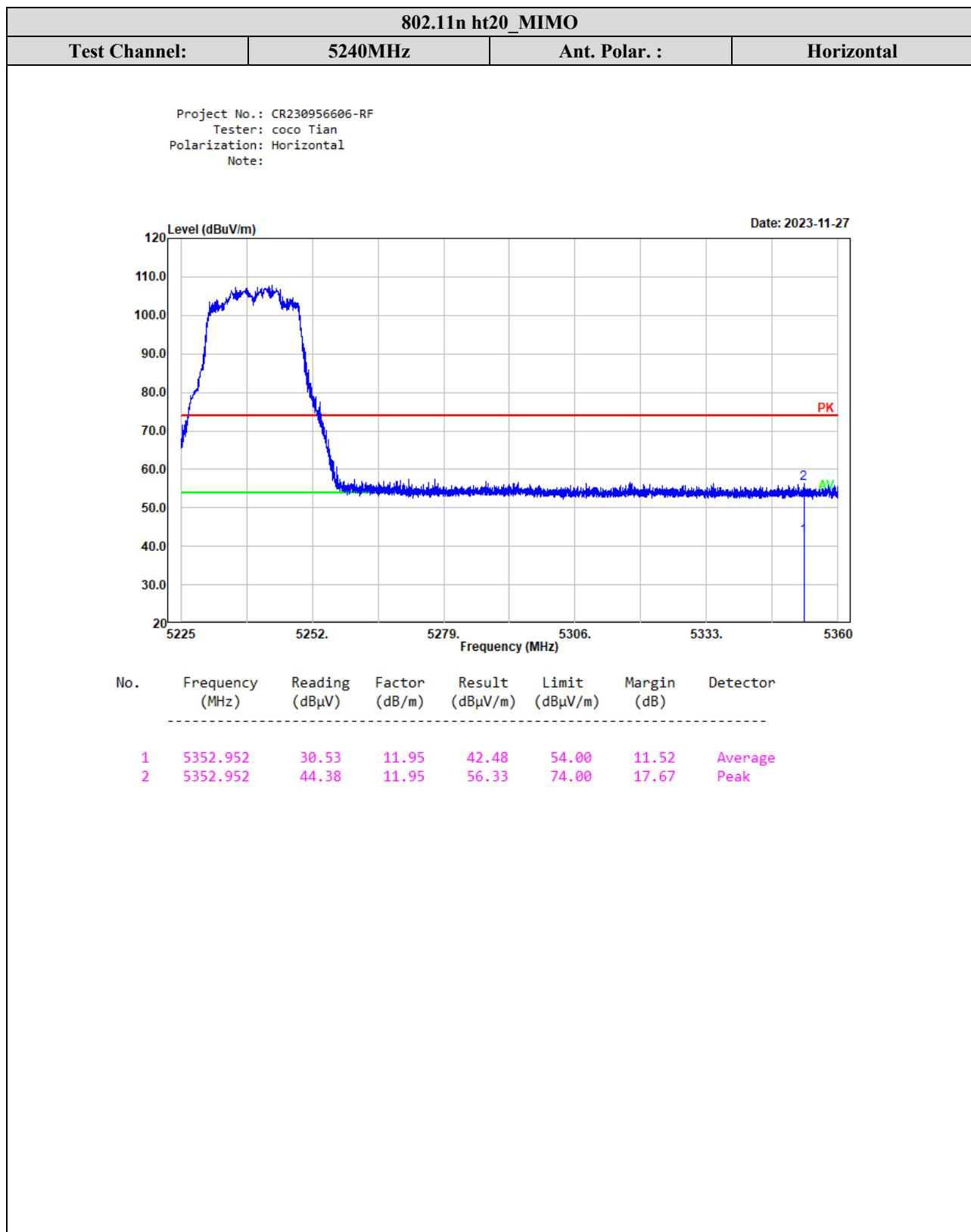
| | | | |
|----------------------|----------------|----------------------|-------------------|
| Test Channel: | 5180MHz | Ant. Polar. : | Horizontal |
|----------------------|----------------|----------------------|-------------------|

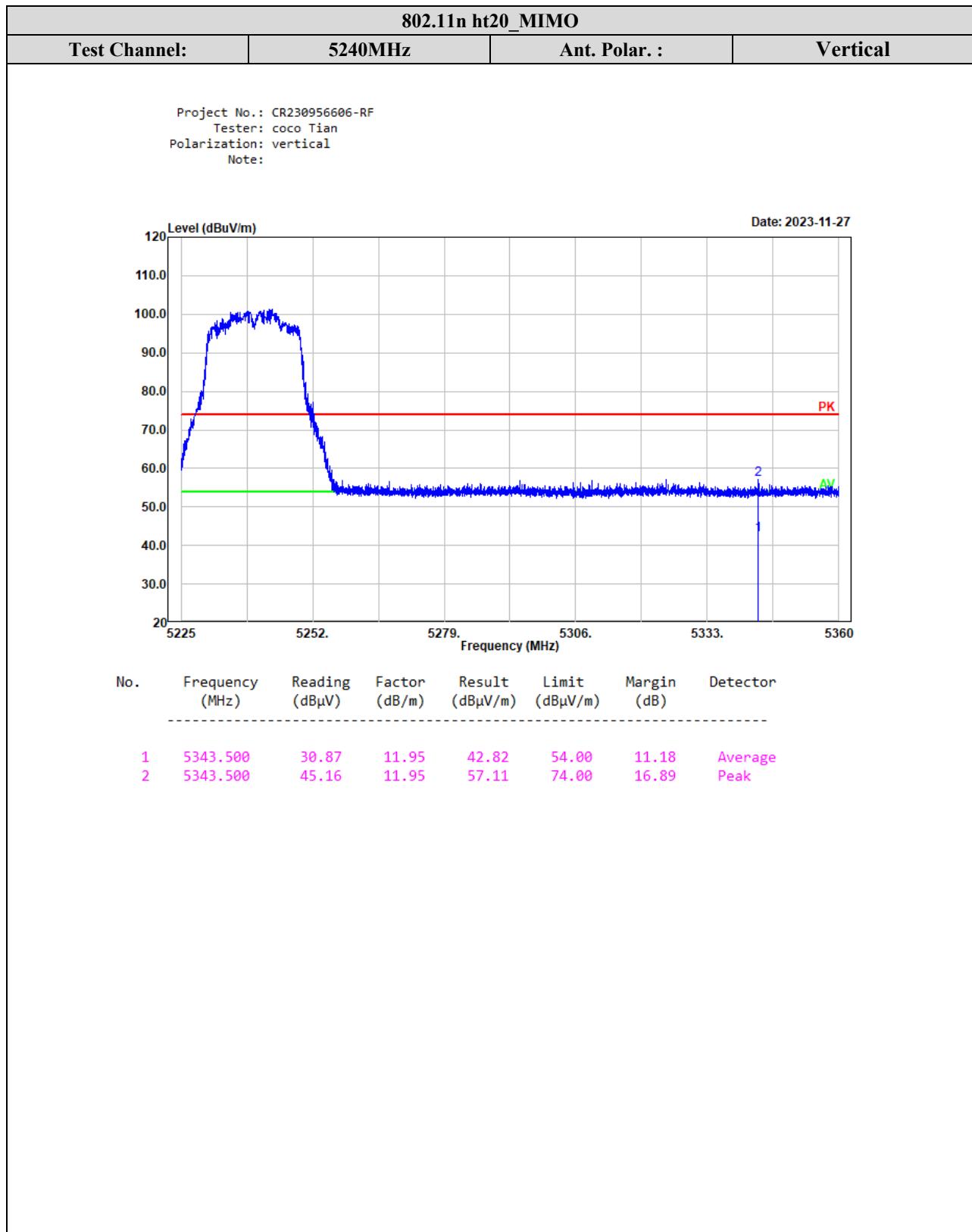
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 5152.905 | 30.37 | 11.67 | 42.04 | 54.00 | 11.96 | Average |
| 2 | 5152.905 | 44.42 | 11.67 | 56.09 | 74.00 | 17.91 | Peak |



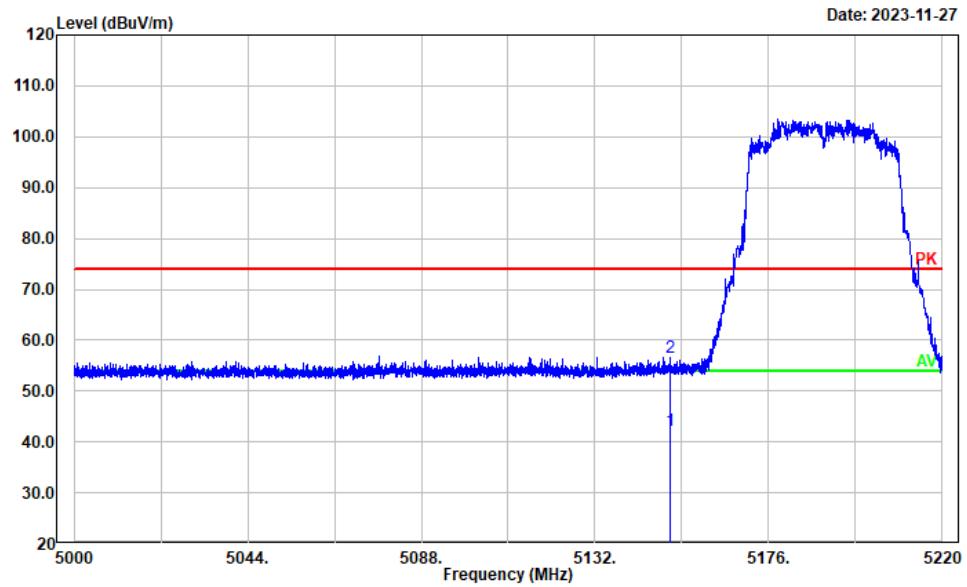




802.11n ht40_MIMO

| | | | |
|----------------------|----------------|----------------------|-------------------|
| Test Channel: | 5190MHz | Ant. Polar. : | Horizontal |
|----------------------|----------------|----------------------|-------------------|

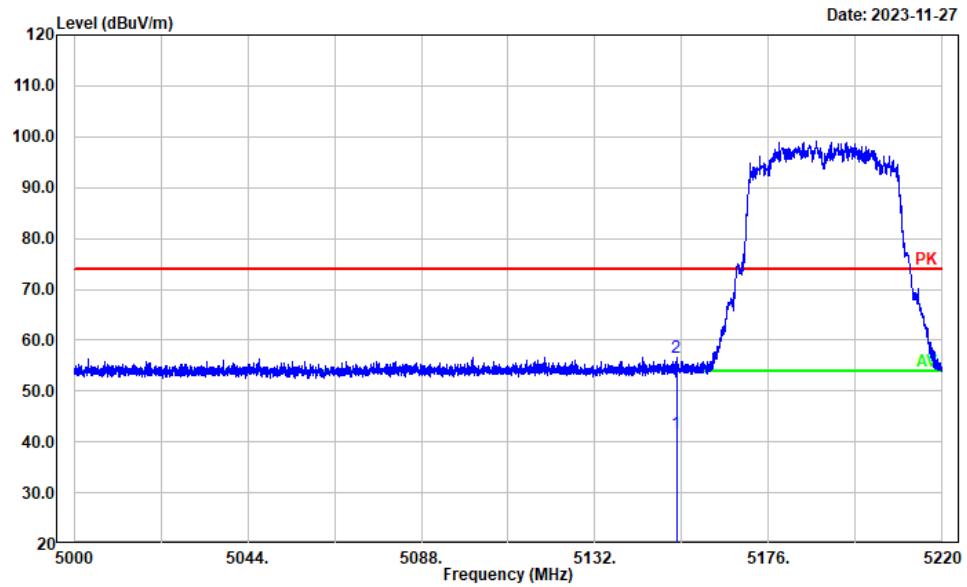
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:



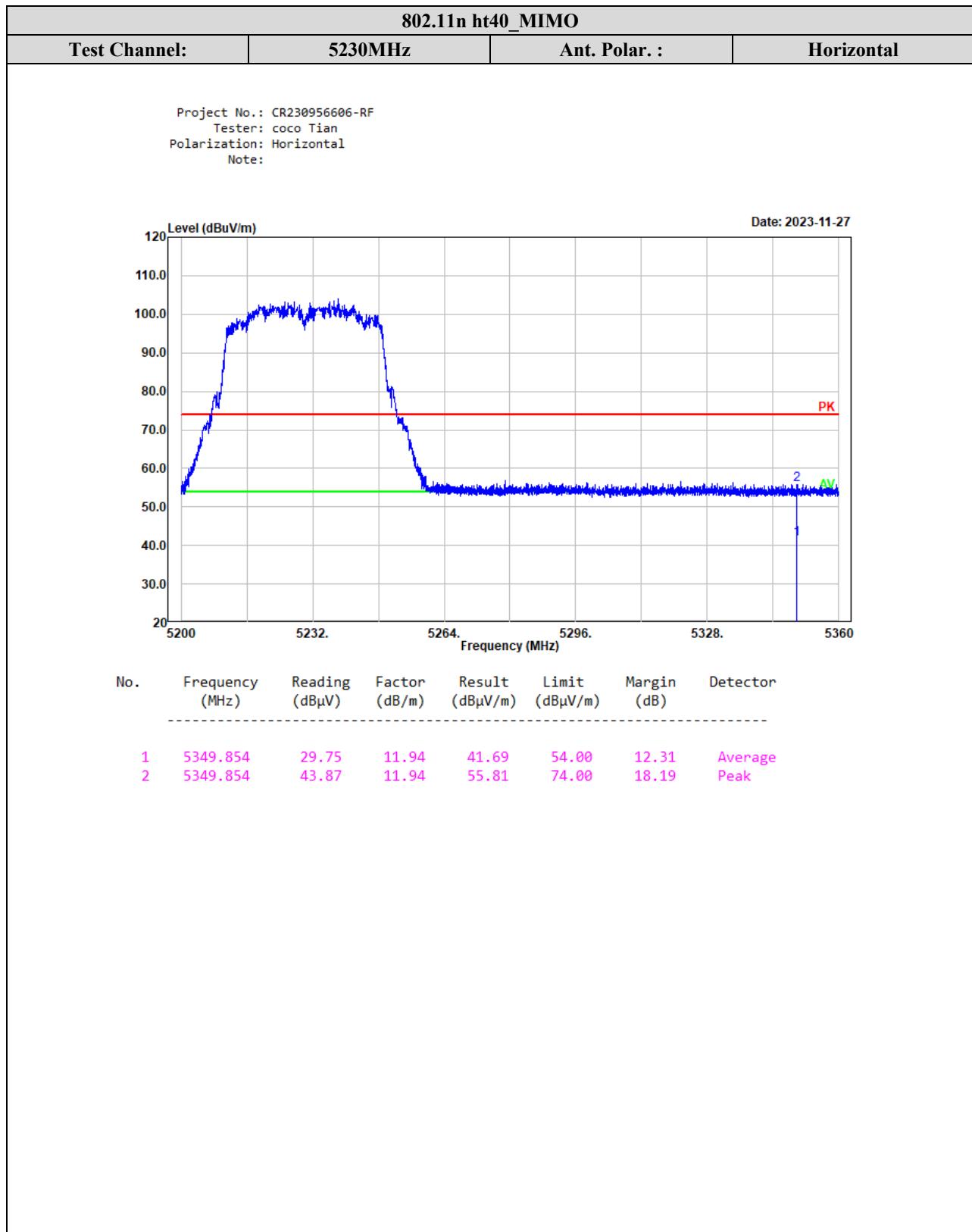
| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 5151.082 | 30.65 | 11.67 | 42.32 | 54.00 | 11.68 | Average |
| 2 | 5151.082 | 44.98 | 11.67 | 56.65 | 74.00 | 17.35 | Peak |

802.11n ht40_MIMO**Test Channel: 5190MHz Ant. Polar.: Vertical**

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: vertical
Note:

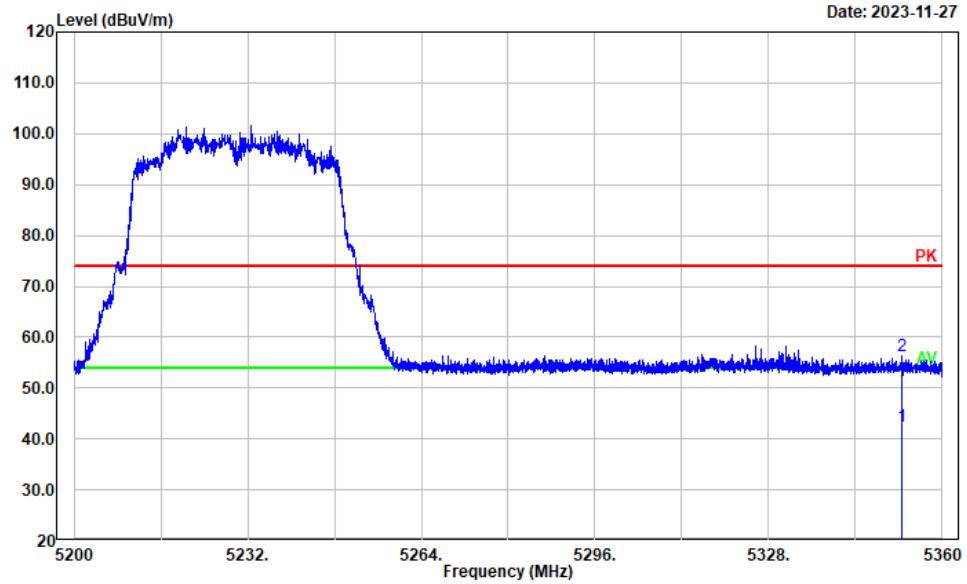


| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 5152.623 | 30.12 | 11.67 | 41.79 | 54.00 | 12.21 | Average |
| 2 | 5152.623 | 44.79 | 11.67 | 56.46 | 74.00 | 17.54 | Peak |



802.11n ht40_MIMO**Test Channel: 5230MHz Ant. Polar. : Vertical**

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: vertical
Note:

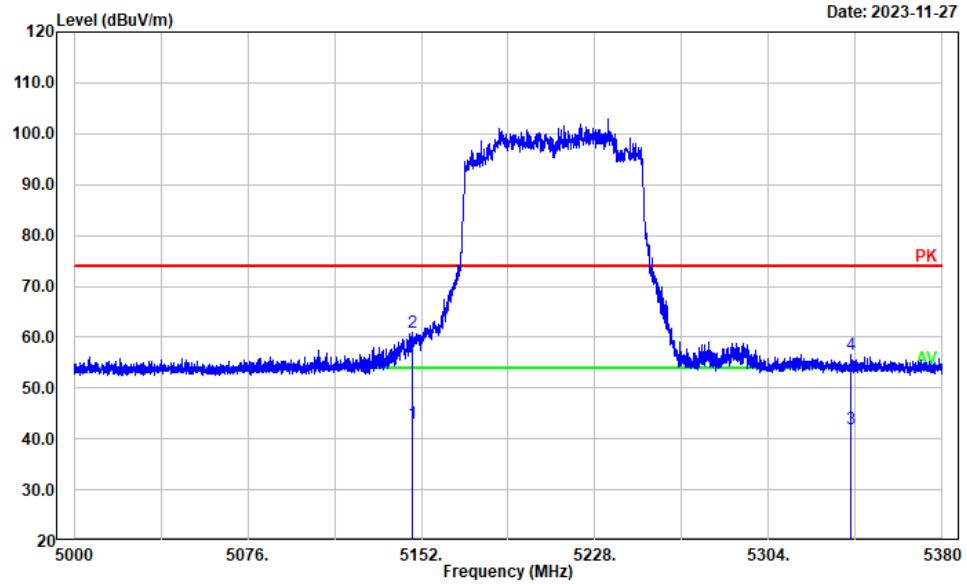


| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-----|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| 1 | 5352.606 | 30.58 | 11.95 | 42.53 | 54.00 | 11.47 | Average |
| 2 | 5352.606 | 44.32 | 11.95 | 56.27 | 74.00 | 17.73 | Peak |

802.11ac vht80_MIMO

| | | | |
|----------------------|----------------|----------------------|-------------------|
| Test Channel: | 5210MHz | Ant. Polar. : | Horizontal |
|----------------------|----------------|----------------------|-------------------|

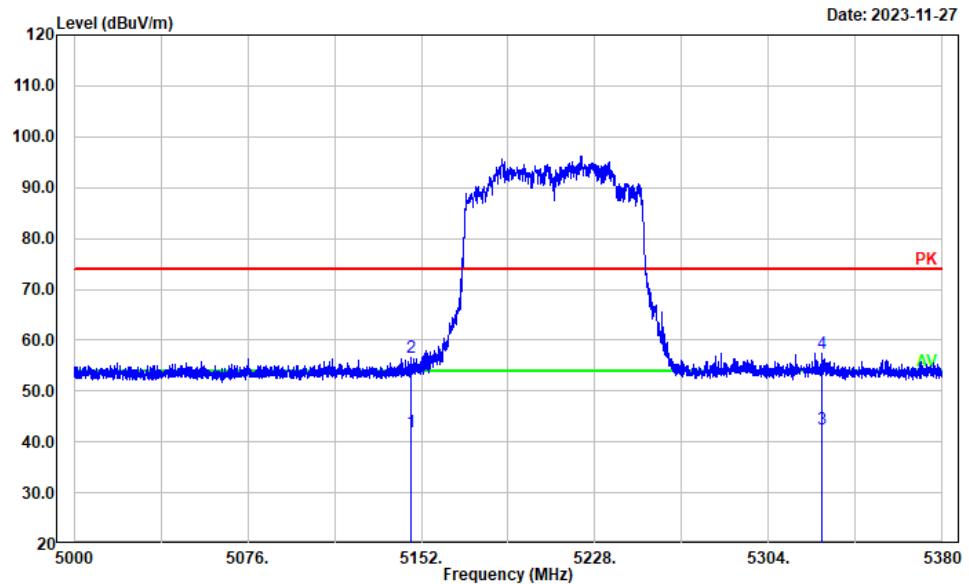
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5147.850 | 31.23 | 11.68 | 42.91 | 54.00 | 11.09 | Average |
| 2 | 5147.850 | 49.19 | 11.68 | 60.87 | 74.00 | 13.13 | Peak |
| 3 | 5340.092 | 30.04 | 11.95 | 41.99 | 54.00 | 12.01 | Average |
| 4 | 5340.092 | 44.62 | 11.95 | 56.57 | 74.00 | 17.43 | Peak |

802.11ac vht80_MIMO**Test Channel: 5210MHz Ant. Polar. : Vertical**

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: vertical
Note:

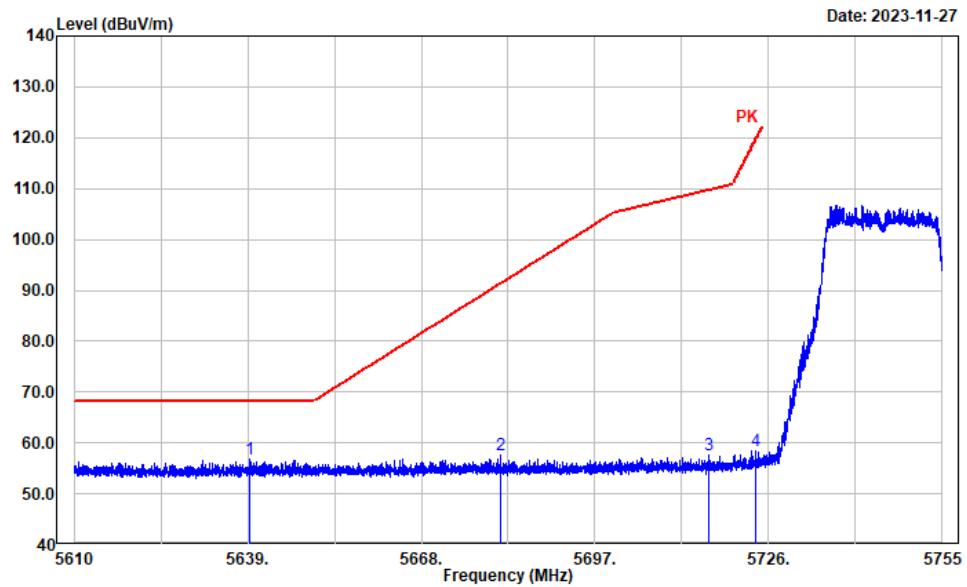


| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5147.622 | 30.35 | 11.68 | 42.03 | 54.00 | 11.97 | Average |
| 2 | 5147.622 | 44.80 | 11.68 | 56.48 | 74.00 | 17.52 | Peak |
| 3 | 5327.474 | 30.66 | 11.95 | 42.61 | 54.00 | 11.39 | Average |
| 4 | 5327.474 | 45.47 | 11.95 | 57.42 | 74.00 | 16.58 | Peak |

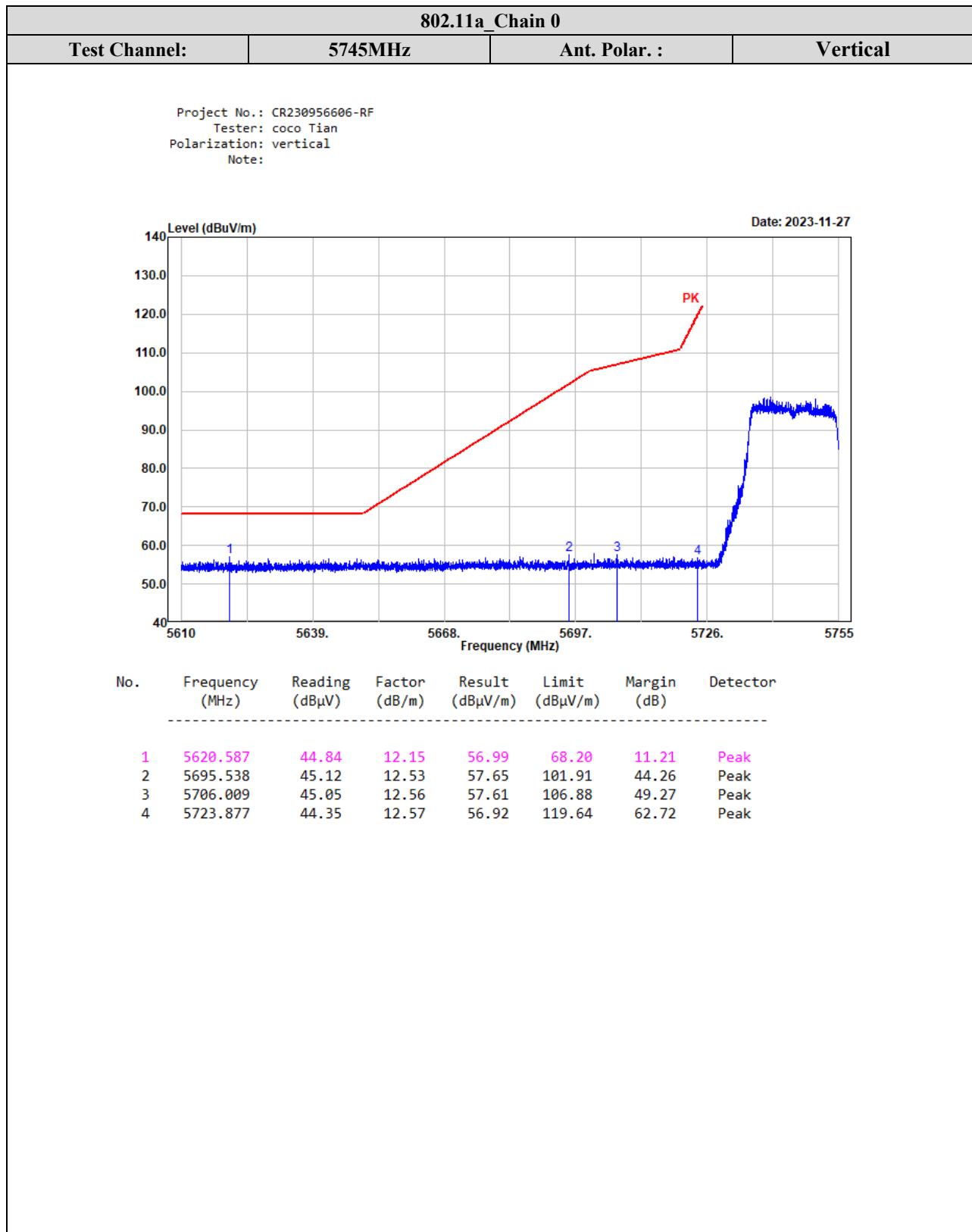
5725~5850MHz:**802.11a Chain 0**

| Test Channel: | 5745MHz | Ant. Polar. : | Horizontal |
|---------------|---------|---------------|------------|
|---------------|---------|---------------|------------|

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:



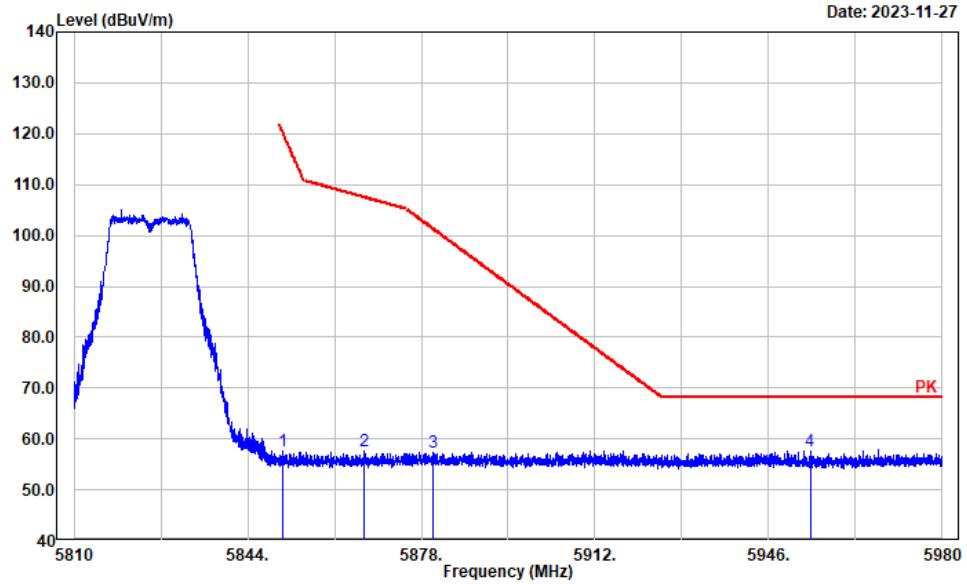
| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5639.412 | 44.49 | 12.26 | 56.75 | 68.20 | 11.45 | Peak |
| 2 | 5681.238 | 45.24 | 12.47 | 57.71 | 91.35 | 33.64 | Peak |
| 3 | 5716.016 | 44.94 | 12.56 | 57.50 | 109.69 | 52.19 | Peak |
| 4 | 5723.761 | 45.96 | 12.57 | 58.53 | 119.38 | 60.85 | Peak |



802.11a Chain 0

| | | | |
|----------------------|----------------|----------------------|-------------------|
| Test Channel: | 5825MHz | Ant. Polar. : | Horizontal |
|----------------------|----------------|----------------------|-------------------|

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:

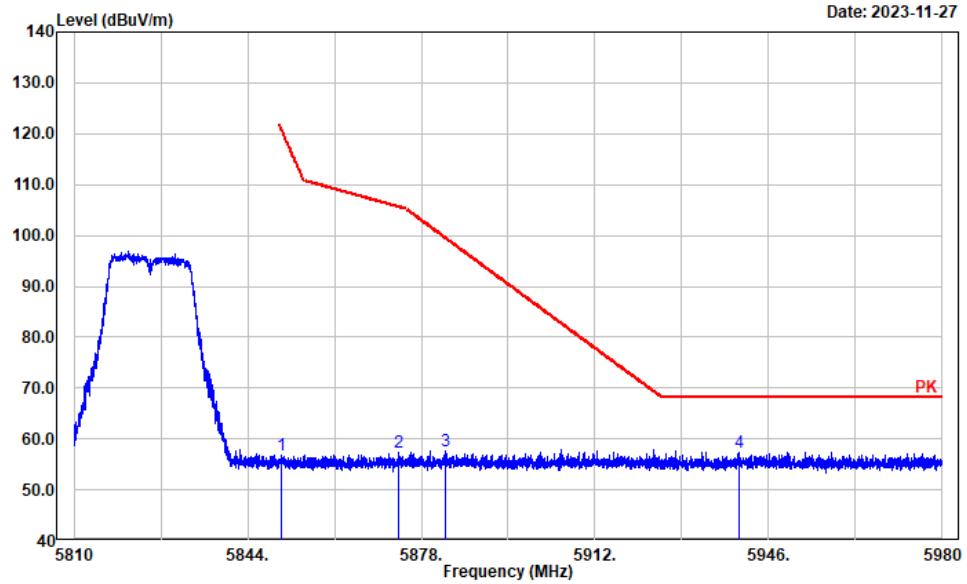


| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5850.910 | 44.73 | 12.77 | 57.50 | 120.12 | 62.62 | Peak |
| 2 | 5866.723 | 44.64 | 12.86 | 57.50 | 107.52 | 50.02 | Peak |
| 3 | 5880.224 | 44.54 | 12.92 | 57.46 | 101.32 | 43.86 | Peak |
| 4 | 5954.121 | 44.53 | 13.06 | 57.59 | 68.20 | 10.61 | Peak |

802.11a Chain 0

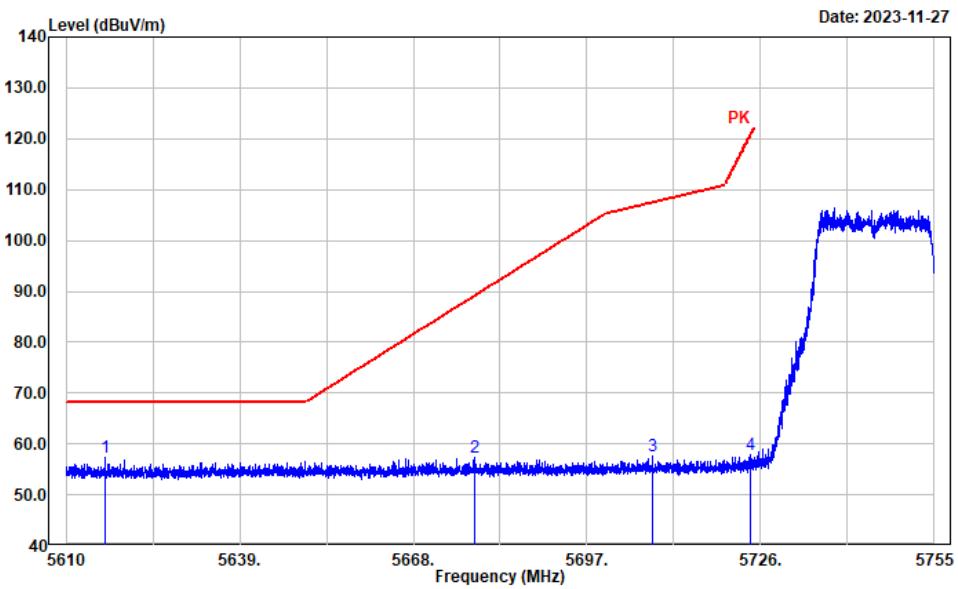
| | | | |
|----------------------|----------------|----------------------|-----------------|
| Test Channel: | 5825MHz | Ant. Polar. : | Vertical |
|----------------------|----------------|----------------------|-----------------|

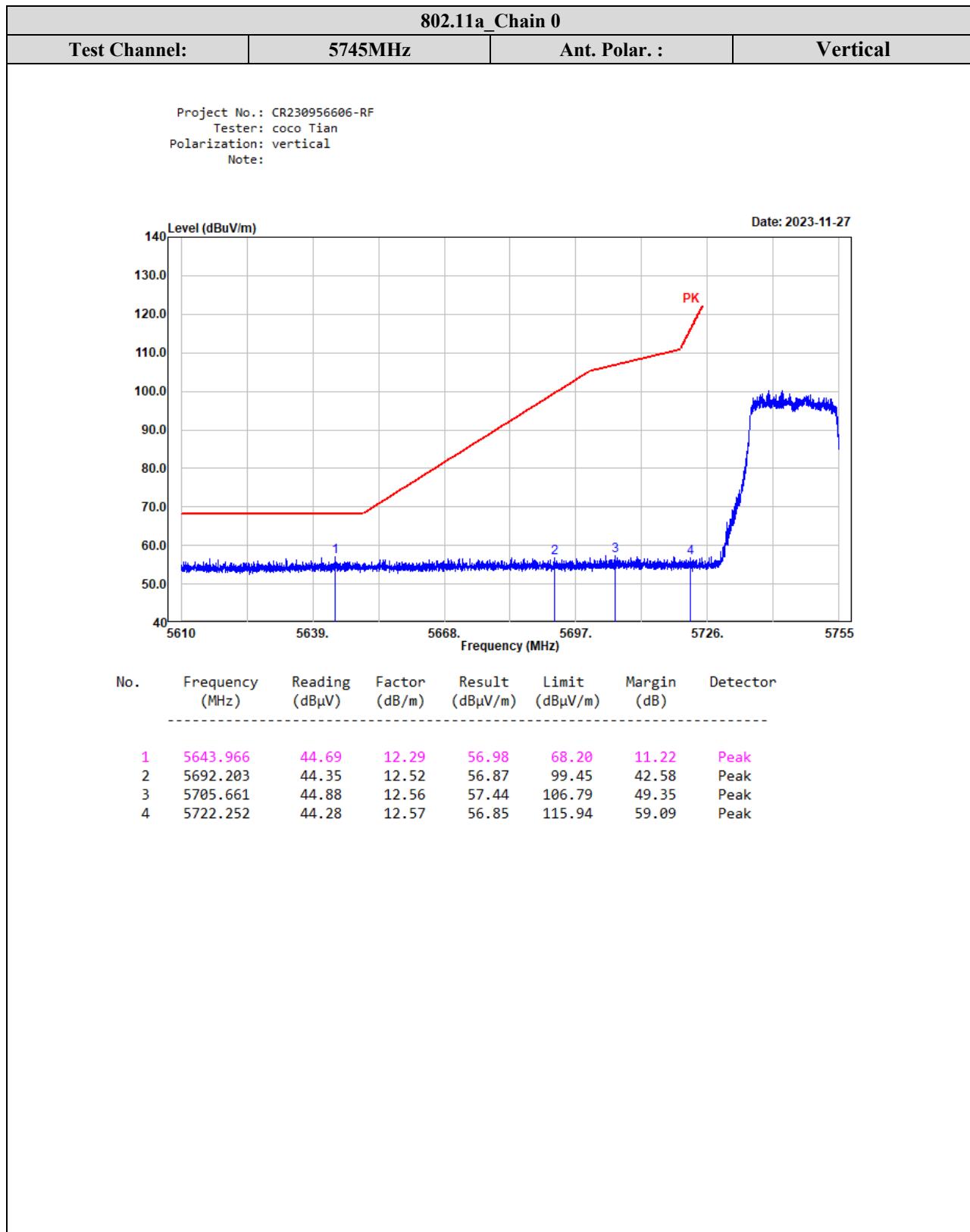
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: vertical
Note:



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5850.638 | 43.97 | 12.77 | 56.74 | 120.74 | 64.00 | Peak |
| 2 | 5873.525 | 44.52 | 12.89 | 57.41 | 105.61 | 48.20 | Peak |
| 3 | 5882.604 | 44.64 | 12.93 | 57.57 | 99.55 | 41.98 | Peak |
| 4 | 5940.178 | 44.44 | 13.03 | 57.47 | 68.20 | 10.73 | Peak |

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:

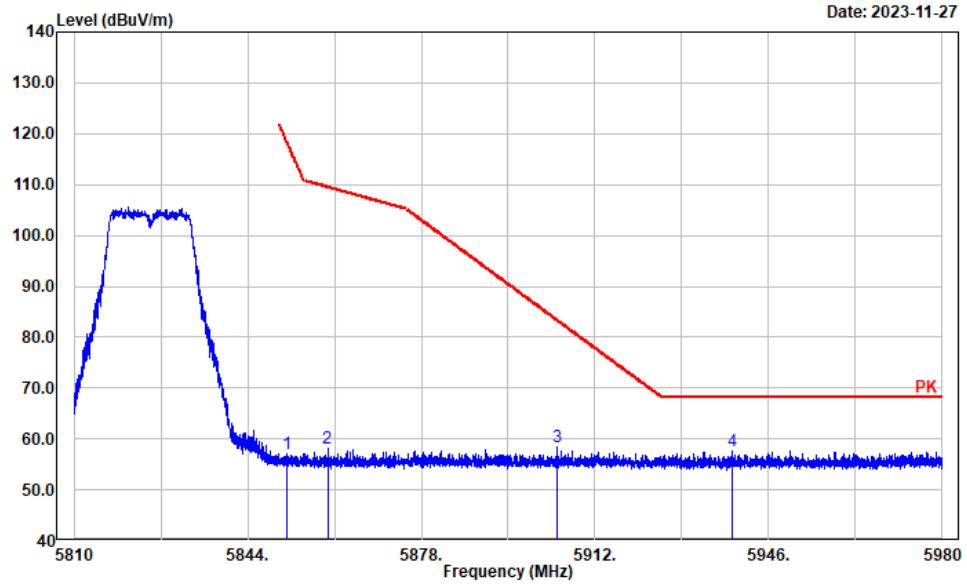




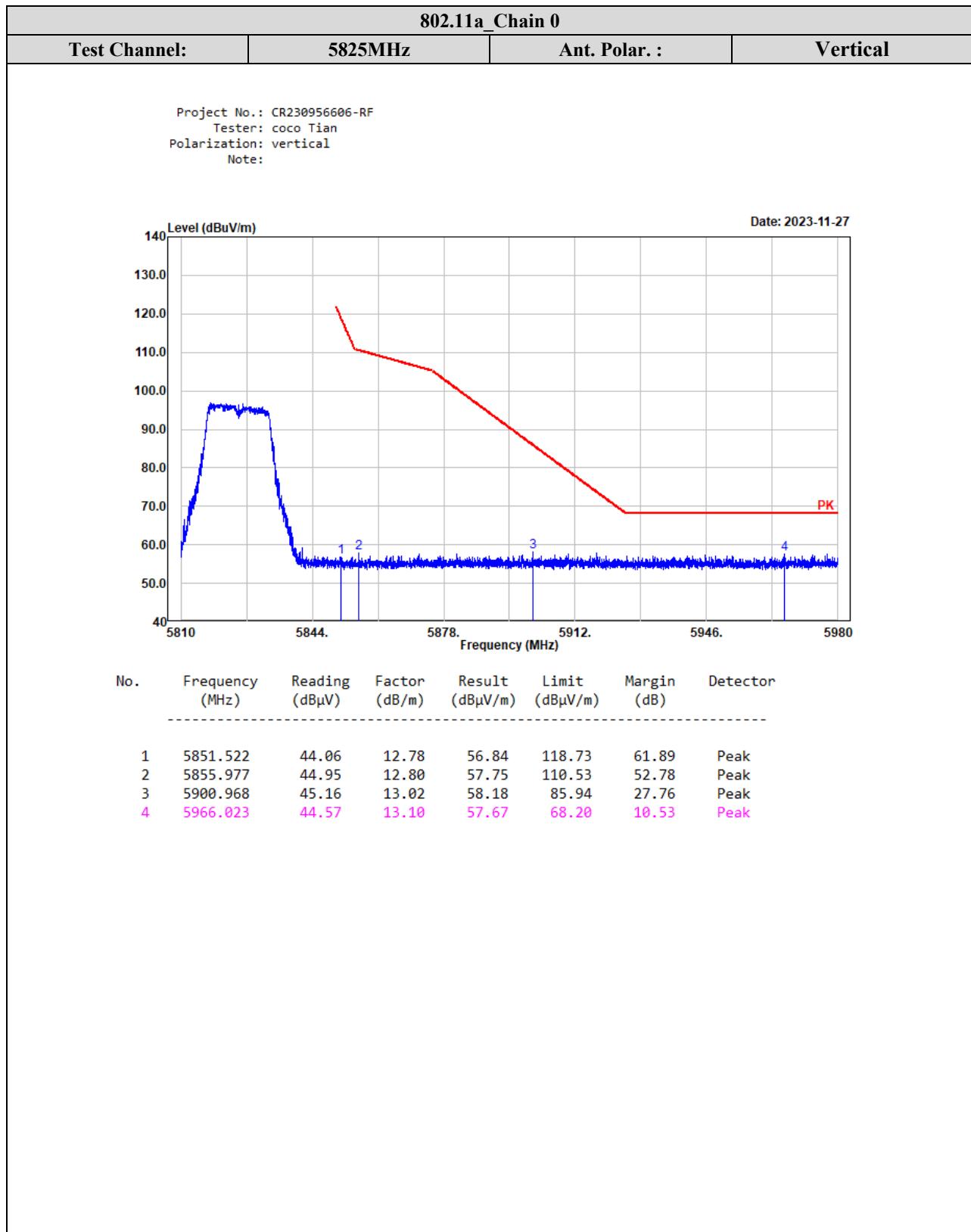
802.11a Chain 0

| | | | |
|----------------------|----------------|----------------------|-------------------|
| Test Channel: | 5825MHz | Ant. Polar. : | Horizontal |
|----------------------|----------------|----------------------|-------------------|

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:



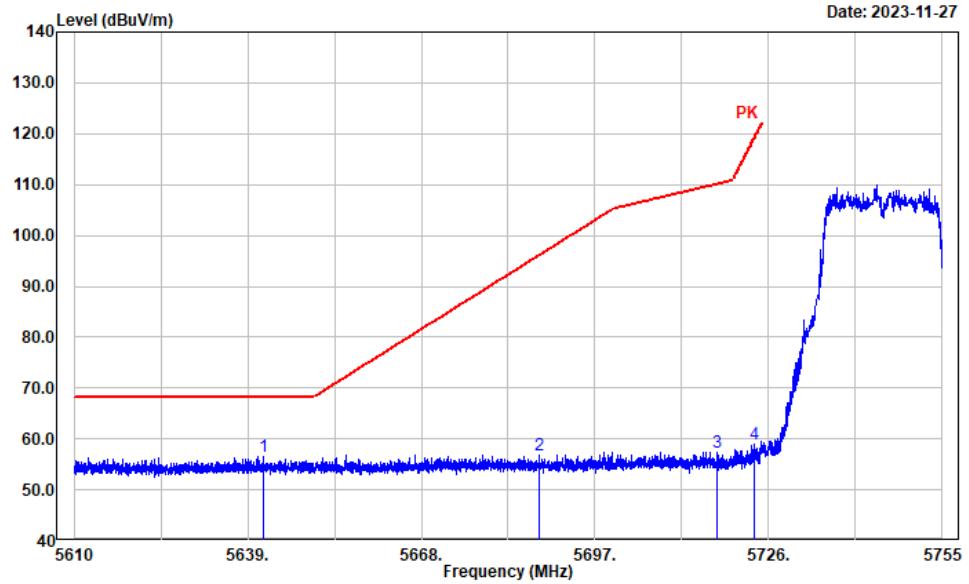
| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5851.556 | 44.34 | 12.78 | 57.12 | 118.65 | 61.53 | Peak |
| 2 | 5859.650 | 45.21 | 12.82 | 58.03 | 109.50 | 51.47 | Peak |
| 3 | 5904.641 | 45.34 | 13.02 | 58.36 | 83.23 | 24.87 | Peak |
| 4 | 5938.784 | 44.56 | 13.03 | 57.59 | 68.20 | 10.61 | Peak |



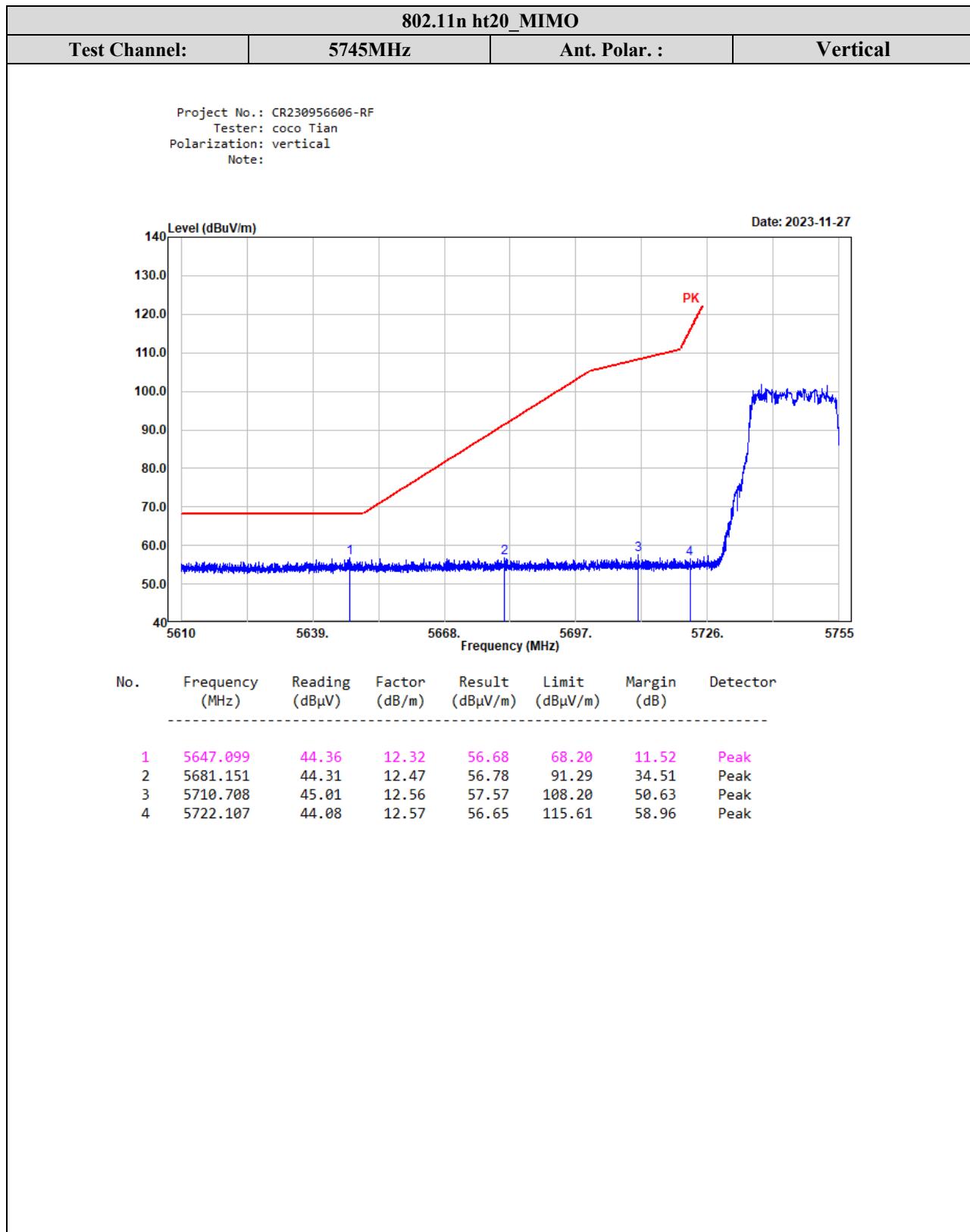
802.11n ht20_MIMO

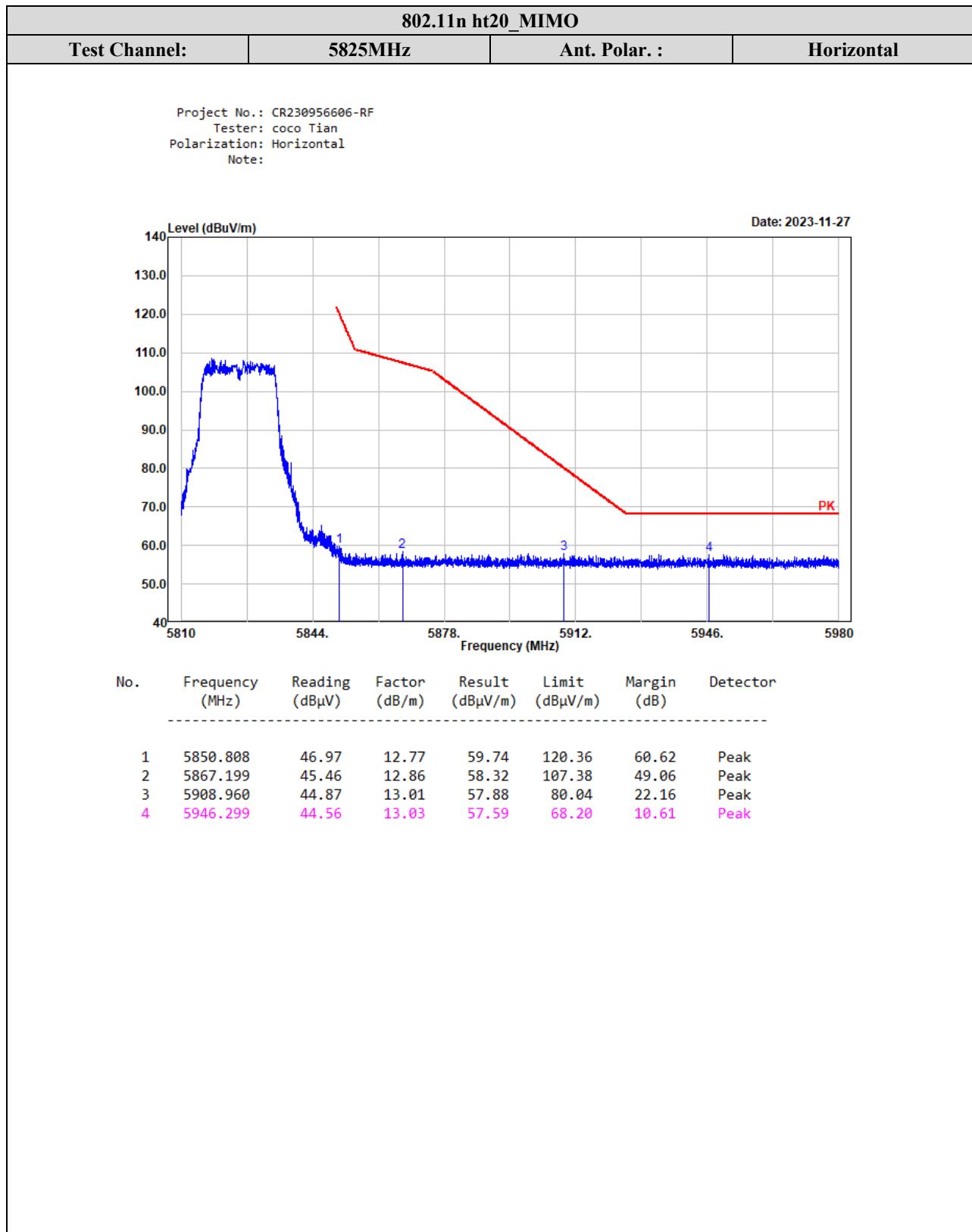
| | | | |
|----------------------|----------------|----------------------|-------------------|
| Test Channel: | 5745MHz | Ant. Polar. : | Horizontal |
|----------------------|----------------|----------------------|-------------------|

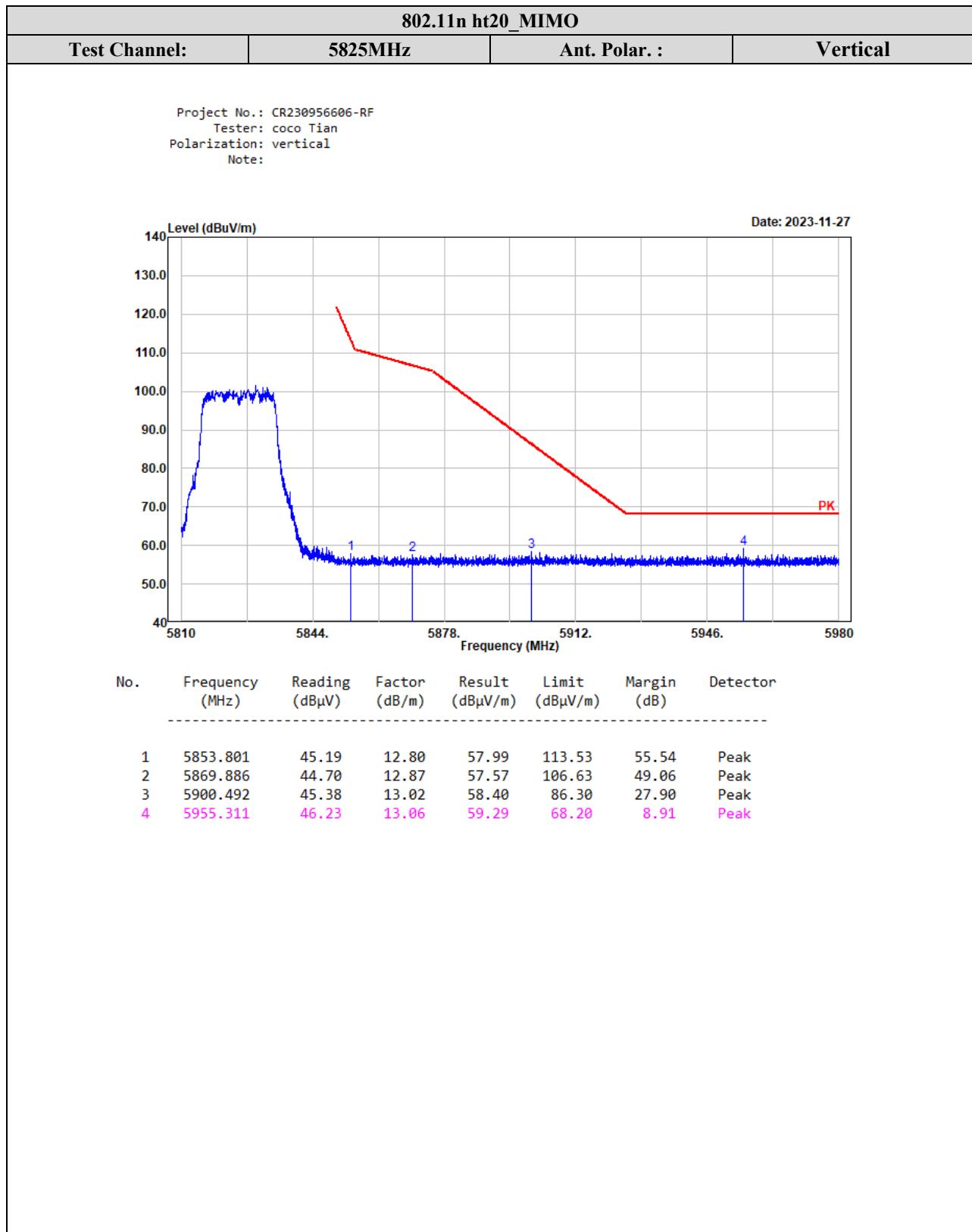
Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:

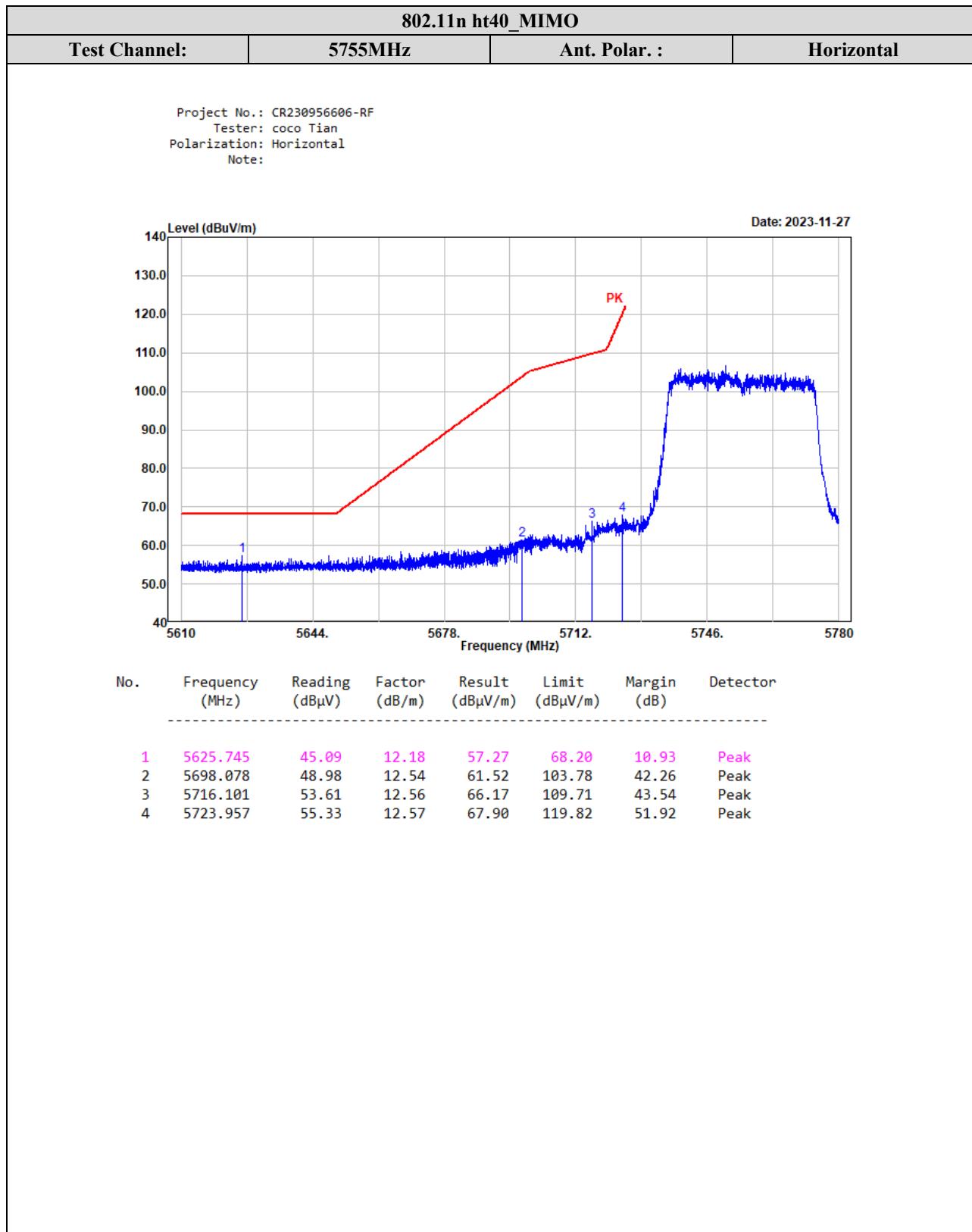


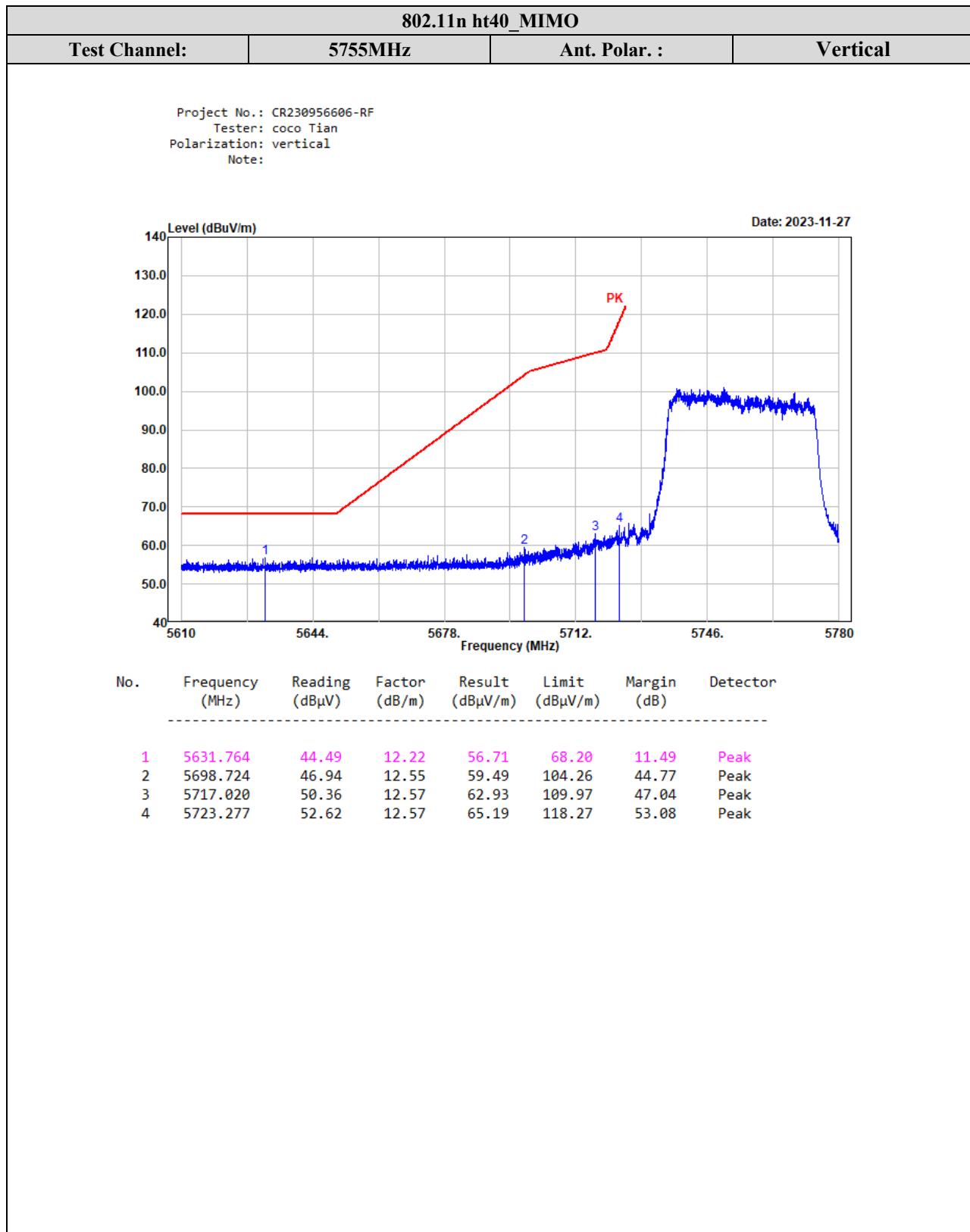
| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5641.703 | 44.26 | 12.28 | 56.54 | 68.20 | 11.66 | Peak |
| 2 | 5687.678 | 44.41 | 12.49 | 56.90 | 96.11 | 39.21 | Peak |
| 3 | 5717.438 | 44.88 | 12.57 | 57.45 | 110.08 | 52.63 | Peak |
| 4 | 5723.529 | 46.44 | 12.57 | 59.01 | 118.85 | 59.84 | Peak |







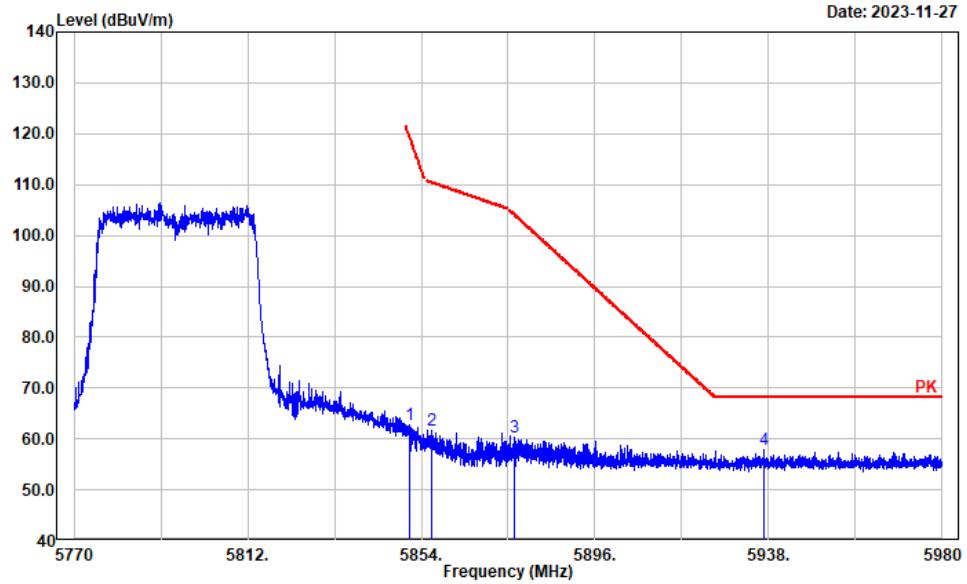




802.11n ht40_MIMO

| | | | |
|----------------------|----------------|----------------------|-------------------|
| Test Channel: | 5795MHz | Ant. Polar. : | Horizontal |
|----------------------|----------------|----------------------|-------------------|

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: Horizontal
Note:

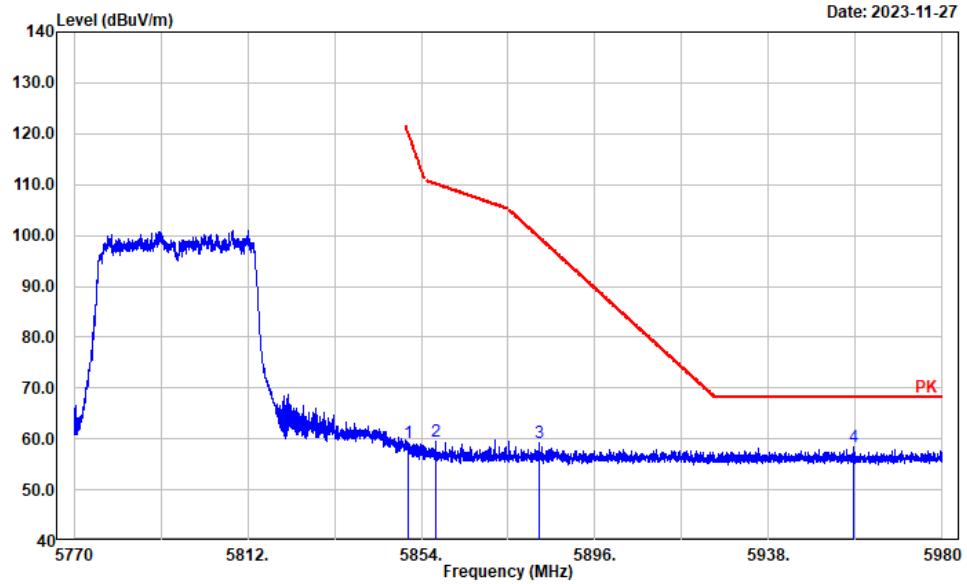


| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5851.286 | 49.90 | 12.78 | 62.68 | 119.27 | 56.59 | Peak |
| 2 | 5856.537 | 48.80 | 12.81 | 61.61 | 110.37 | 48.76 | Peak |
| 3 | 5876.617 | 47.33 | 12.90 | 60.23 | 104.00 | 43.77 | Peak |
| 4 | 5936.899 | 44.91 | 13.03 | 57.94 | 68.20 | 10.26 | Peak |

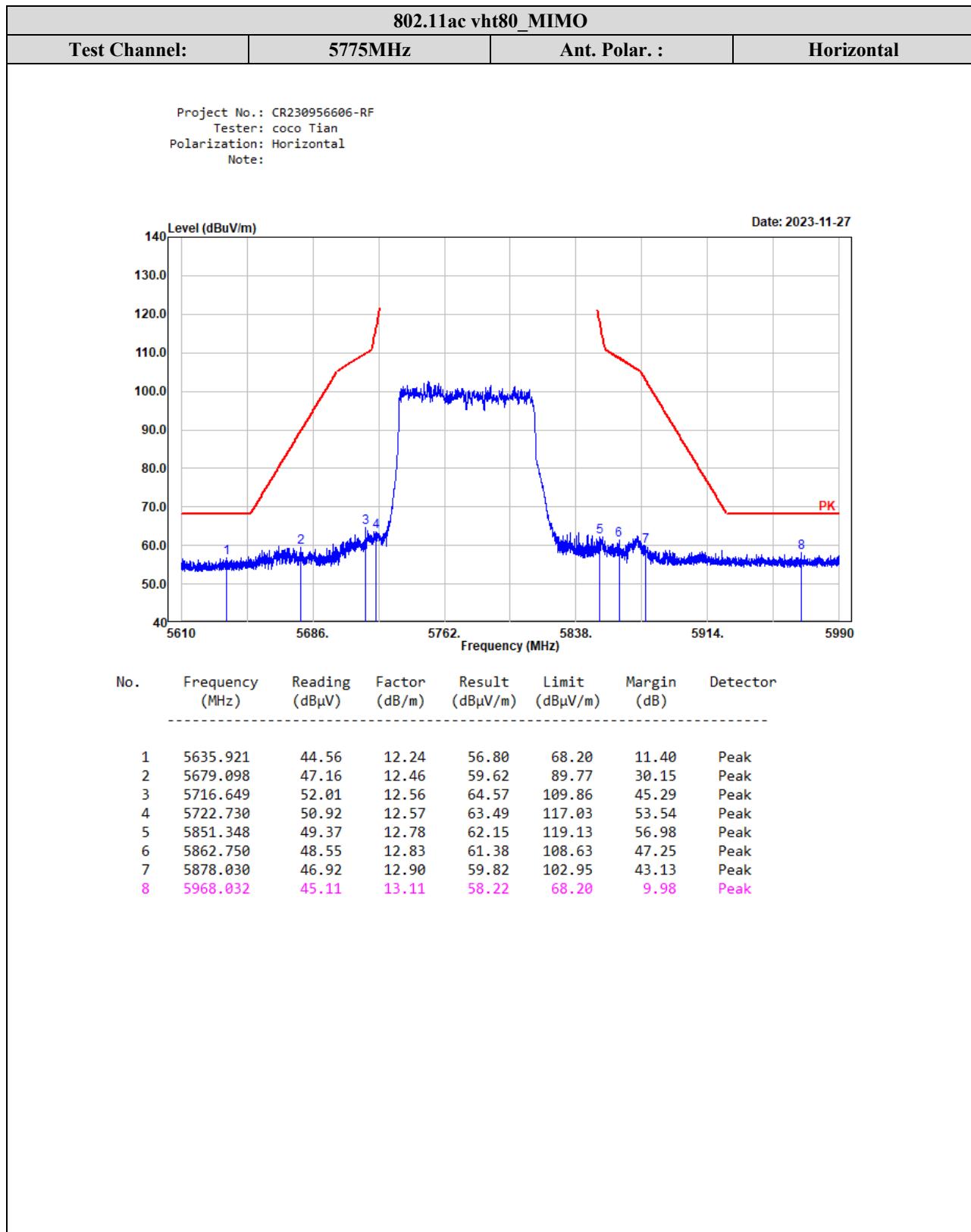
802.11n ht40_MIMO

| | | | |
|----------------------|----------------|----------------------|-----------------|
| Test Channel: | 5795MHz | Ant. Polar. : | Vertical |
|----------------------|----------------|----------------------|-----------------|

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: vertical
Note:



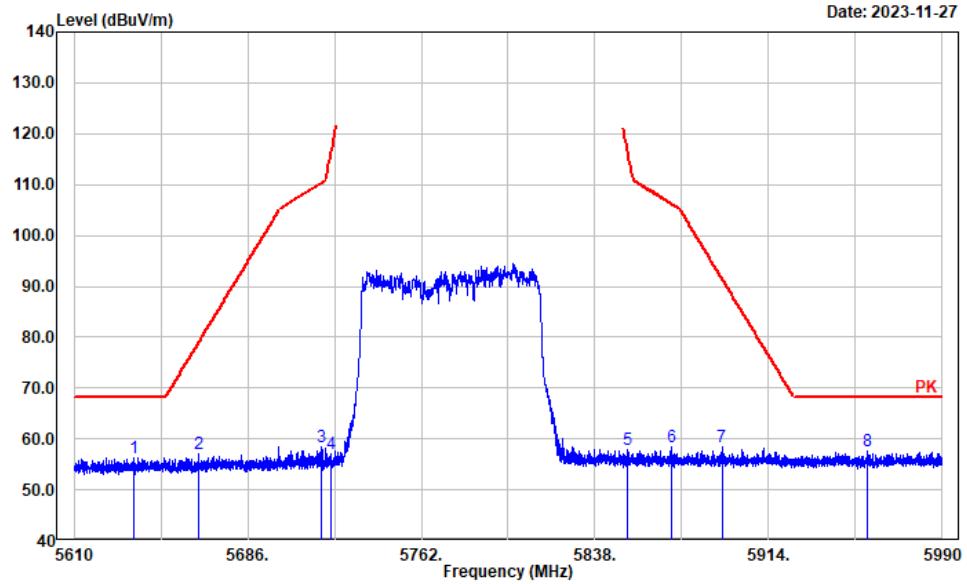
| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5850.866 | 46.40 | 12.77 | 59.17 | 120.22 | 61.05 | Peak |
| 2 | 5857.461 | 46.67 | 12.81 | 59.48 | 110.11 | 50.63 | Peak |
| 3 | 5882.667 | 46.28 | 12.93 | 59.21 | 99.51 | 40.30 | Peak |
| 4 | 5958.492 | 45.44 | 13.07 | 58.51 | 68.20 | 9.69 | Peak |



802.11ac vht80_MIMO

| | | | |
|----------------------|----------------|----------------------|-----------------|
| Test Channel: | 5775MHz | Ant. Polar. : | Vertical |
|----------------------|----------------|----------------------|-----------------|

Project No.: CR230956606-RF
Tester: coco Tian
Polarization: vertical
Note:



| No. | Frequency (MHz) | Reading (dB μ V) | Factor (dB/m) | Result (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Detector |
|-------|-----------------|----------------------|---------------|-----------------------|----------------------|-------------|----------|
| <hr/> | | | | | | | |
| 1 | 5636.453 | 44.12 | 12.25 | 56.37 | 68.20 | 11.83 | Peak |
| 2 | 5664.579 | 44.73 | 12.39 | 57.12 | 79.02 | 21.90 | Peak |
| 3 | 5718.169 | 45.94 | 12.57 | 58.51 | 110.29 | 51.78 | Peak |
| 4 | 5722.274 | 44.45 | 12.57 | 57.02 | 115.99 | 58.97 | Peak |
| 5 | 5852.260 | 45.08 | 12.78 | 57.86 | 117.05 | 59.19 | Peak |
| 6 | 5871.645 | 45.45 | 12.88 | 58.33 | 106.14 | 47.81 | Peak |
| 7 | 5893.537 | 45.50 | 12.98 | 58.48 | 91.45 | 32.97 | Peak |
| 8 | 5957.313 | 44.47 | 13.06 | 57.53 | 68.20 | 10.67 | Peak |

4.3 Emission Bandwidth

| | | | |
|----------------|-----------|--------------|--------------|
| Serial Number: | 2BQ8-1 | Test Date: | 2023/10/10 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Arthur Su | Test Result: | Pass |

| Environmental Conditions: | | | | | |
|----------------------------------|------|---------------------------|----|------------------------|-----|
| Temperature: (°C) | 25.1 | Relative Humidity: (%) | 56 | ATM Pressure: (kPa) | 101 |

Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|---------------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSU26 | 200256 | 2023-03-31 | 2024-03-30 |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

5150-5250 MHz:

| Test Modes | Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|----------------|-------------------------|--------------------------|------------------------------------|
| 802.11a | 5180 | 22.80 | 16.88 |
| | 5200 | 23.44 | 16.72 |
| | 5240 | 23.44 | 16.72 |
| 802.11n ht20 | 5180 | 22.32 | 19.12 |
| | 5200 | 22.24 | 19.04 |
| | 5240 | 22.08 | 19.12 |
| 802.11n ht40 | 5190 | 40.80 | 37.92 |
| | 5230 | 41.60 | 37.92 |
| 802.11ac vht80 | 5210 | 84.80 | 76.48 |

Note:

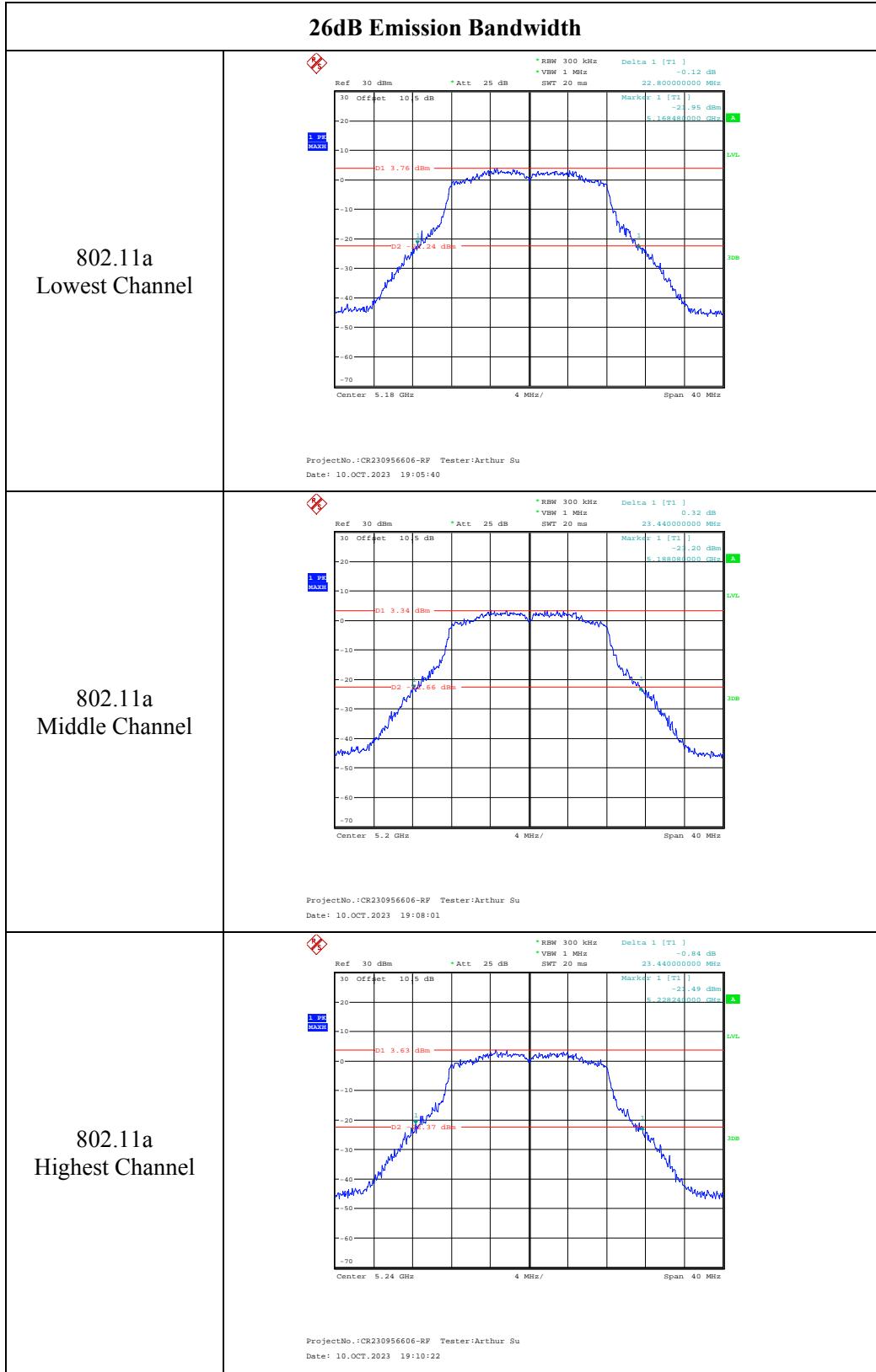
1. Pre-scan all antennas, worst case (Chain 0) was reported.
2. The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth

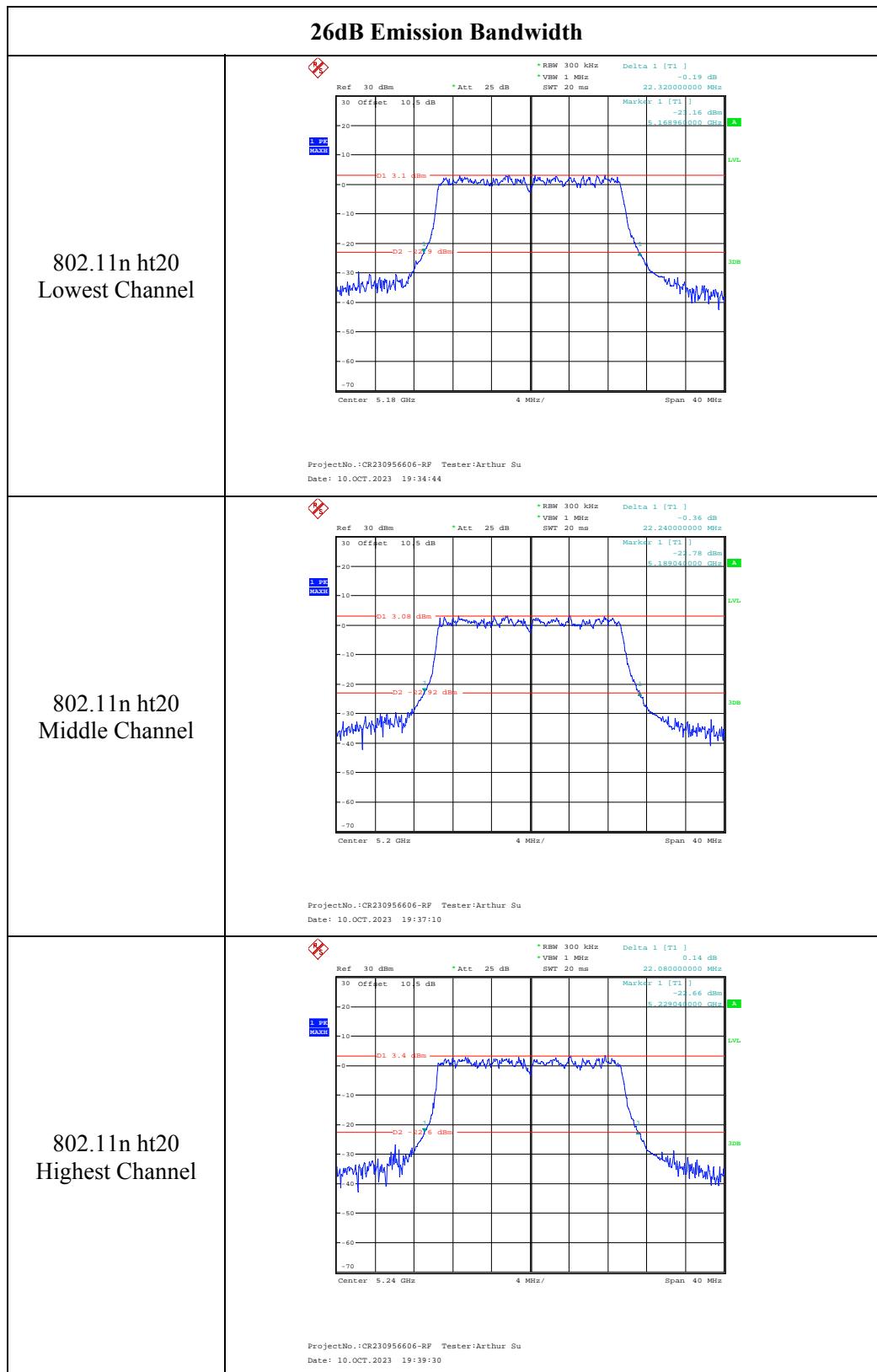
5725-5850 MHz:

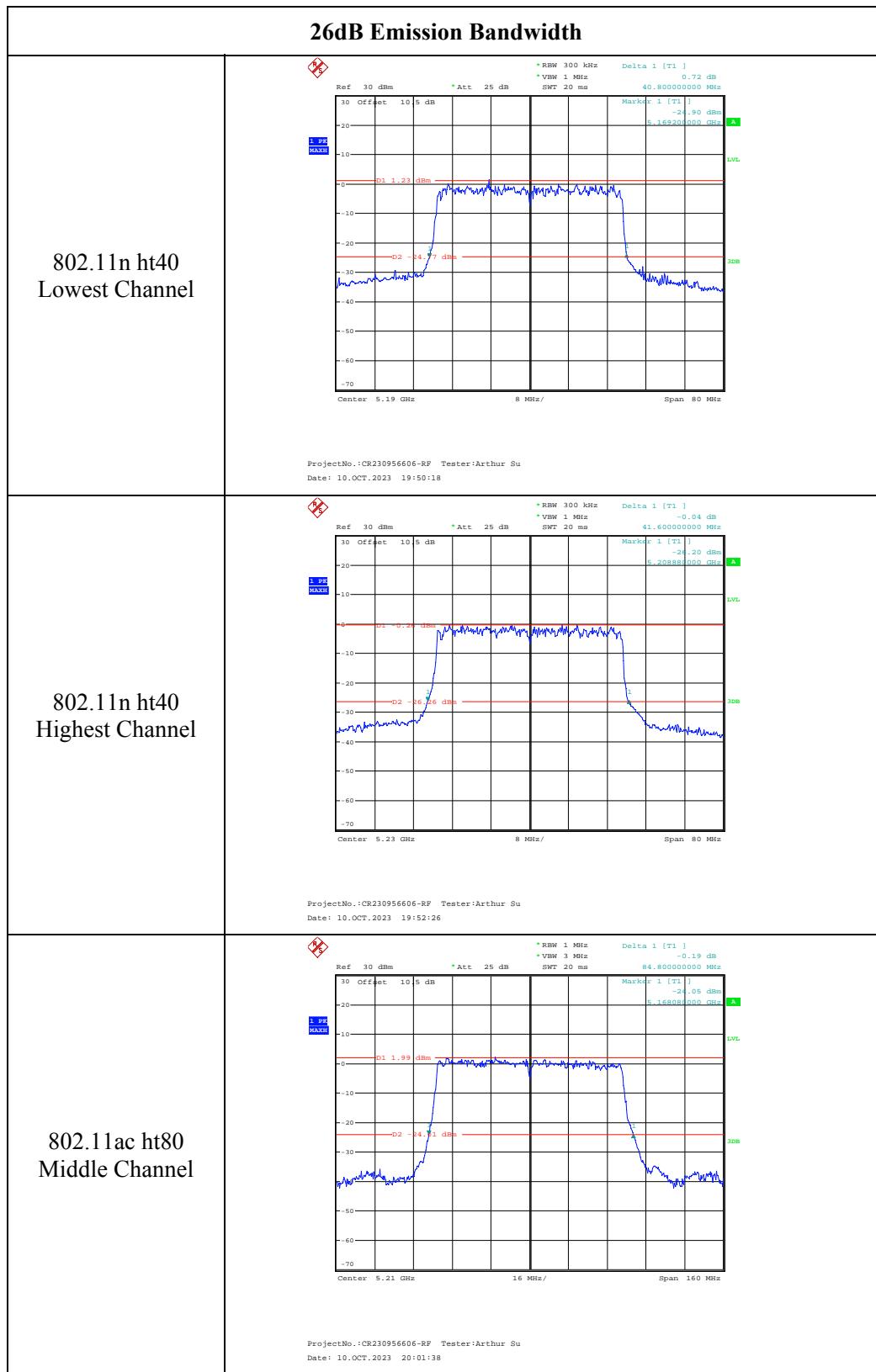
| Test Modes | Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|----------------|-------------------------|-------------------------|------------------------------------|
| 802.11a | 5745 | 16.40 | 17.12 |
| | 5785 | 16.40 | 17.12 |
| | 5825 | 16.40 | 17.12 |
| 802.11n ht20 | 5745 | 18.24 | 19.04 |
| | 5785 | 18.64 | 19.12 |
| | 5825 | 18.96 | 19.12 |
| 802.11n ht40 | 5755 | 37.92 | 37.92 |
| | 5795 | 37.92 | 37.92 |
| 802.11ac vht80 | 5775 | 76.48 | 76.48 |

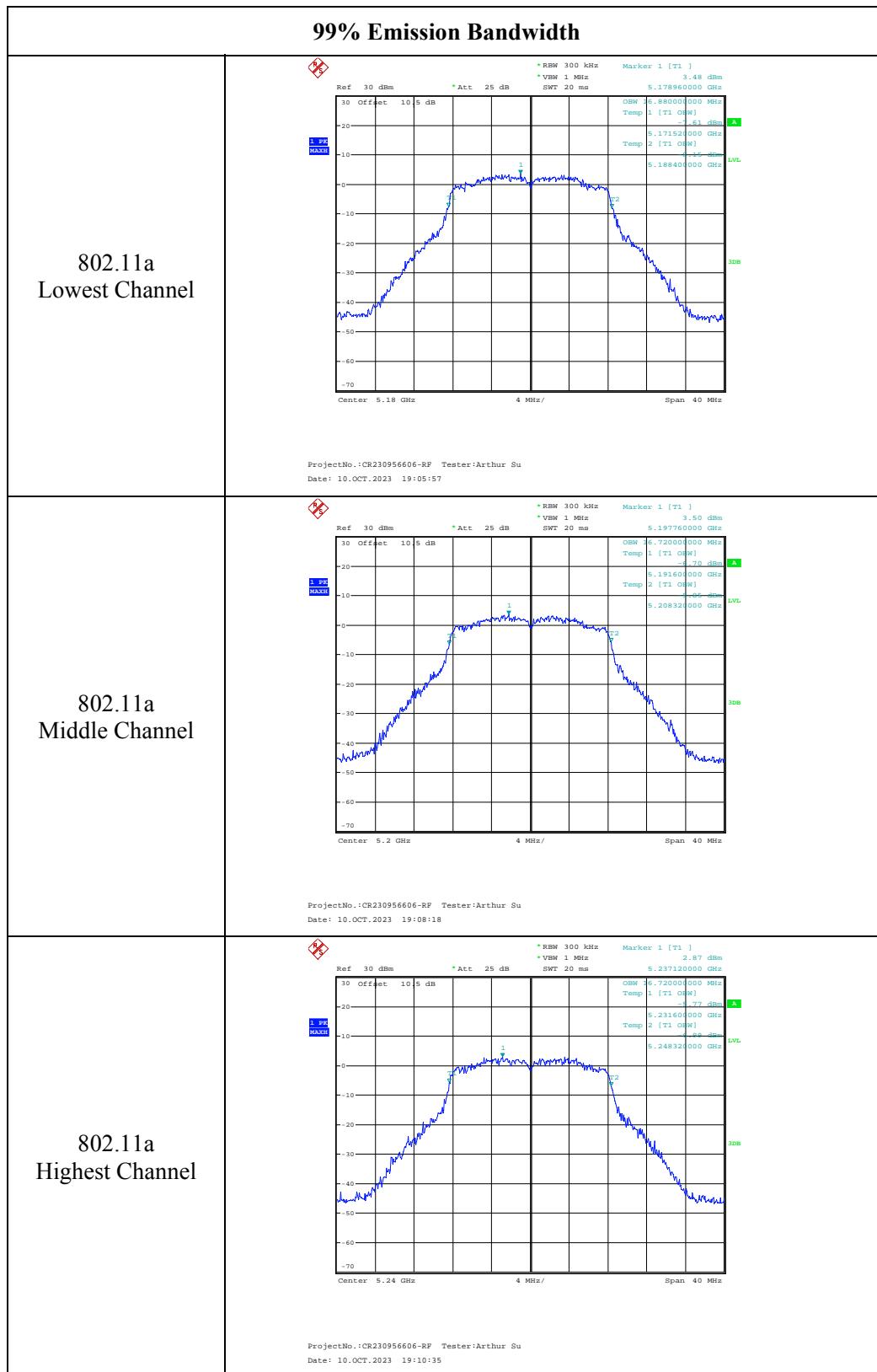
Note:

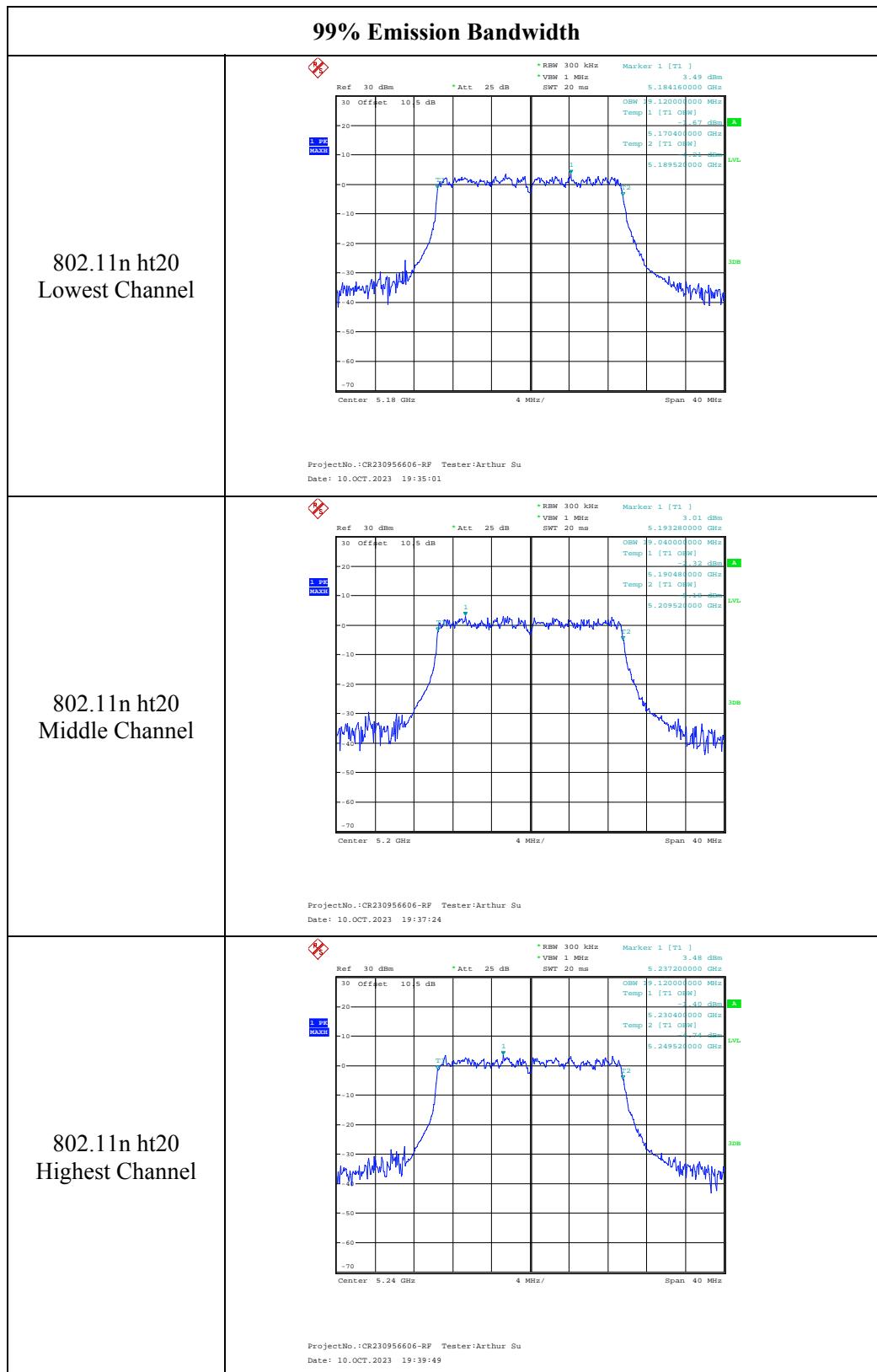
1. 6dB Emission Bandwidth Limit: $\geq 0.5 \text{ MHz}$
2. Pre-scan all antennas, worst case (Chain 0) was reported.
3. the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

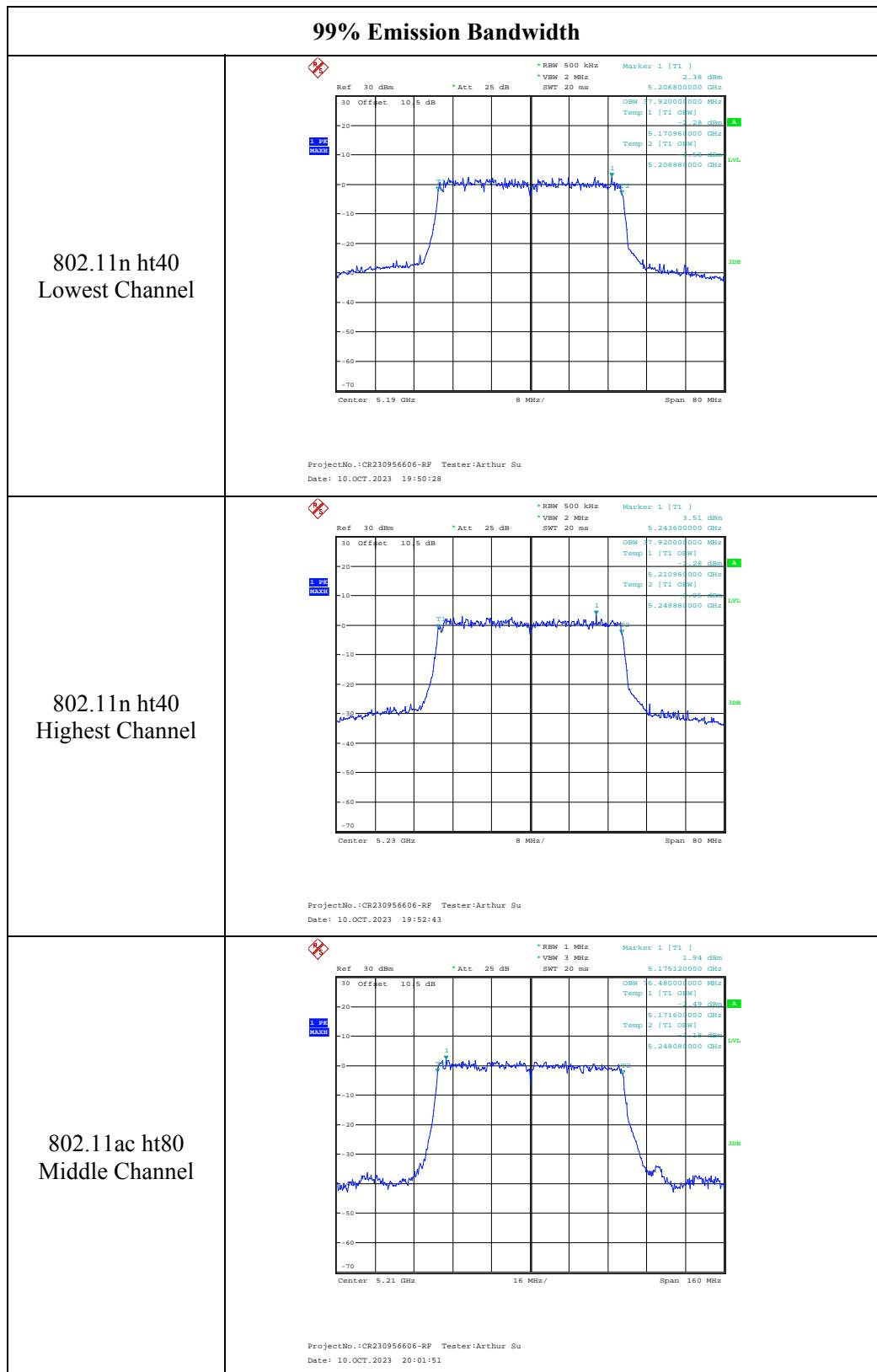
5150-5250MHz:

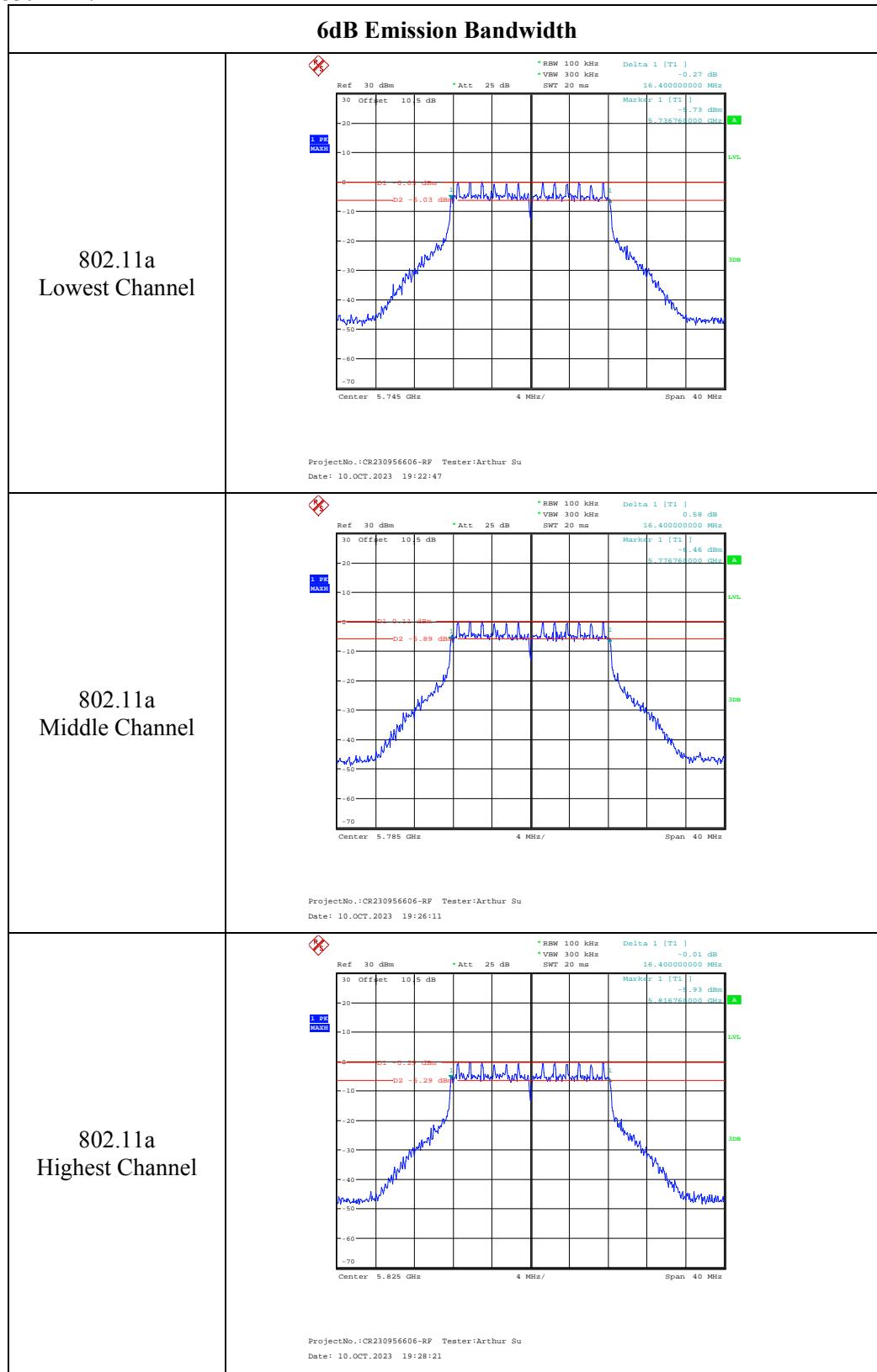


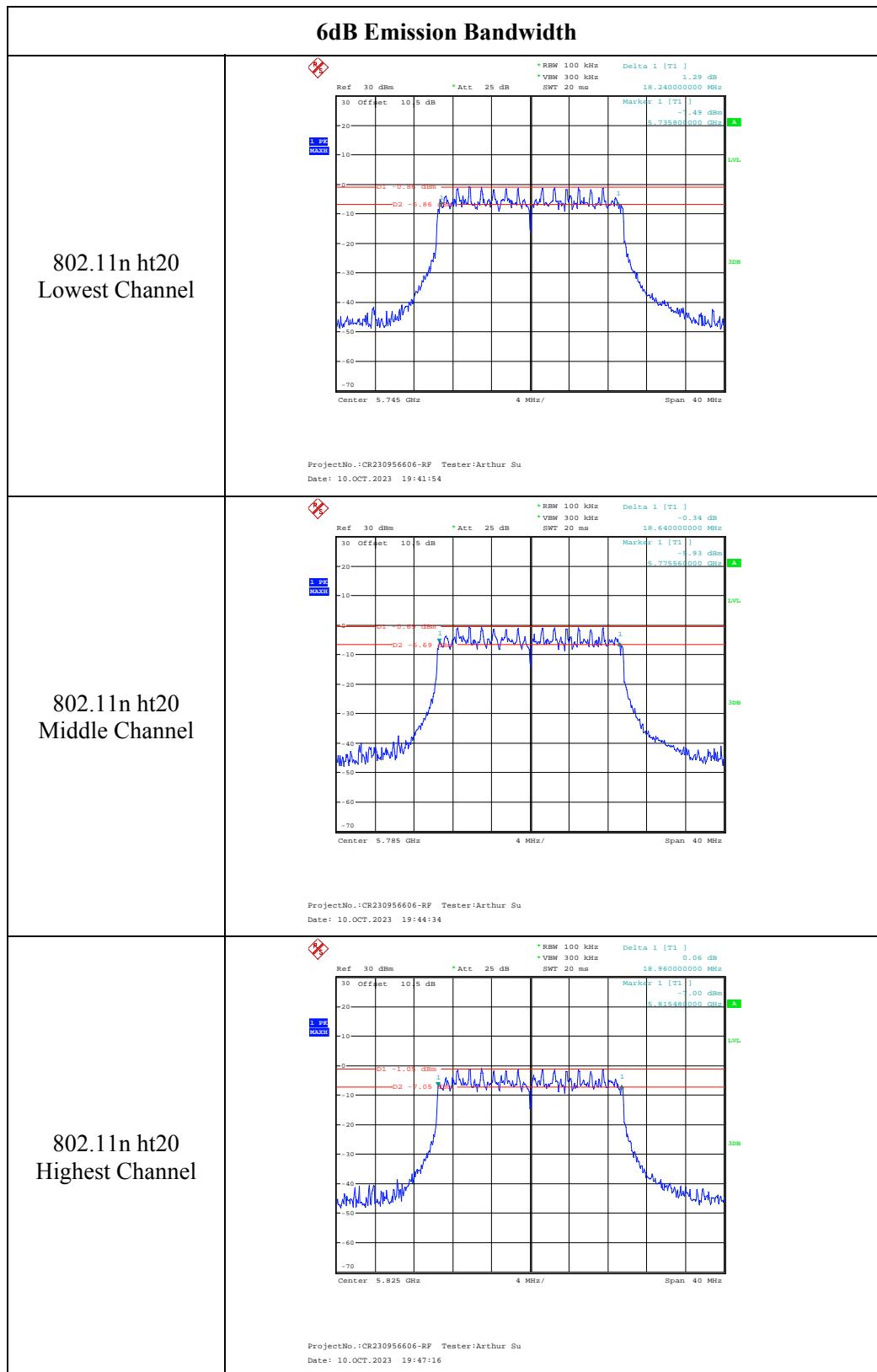


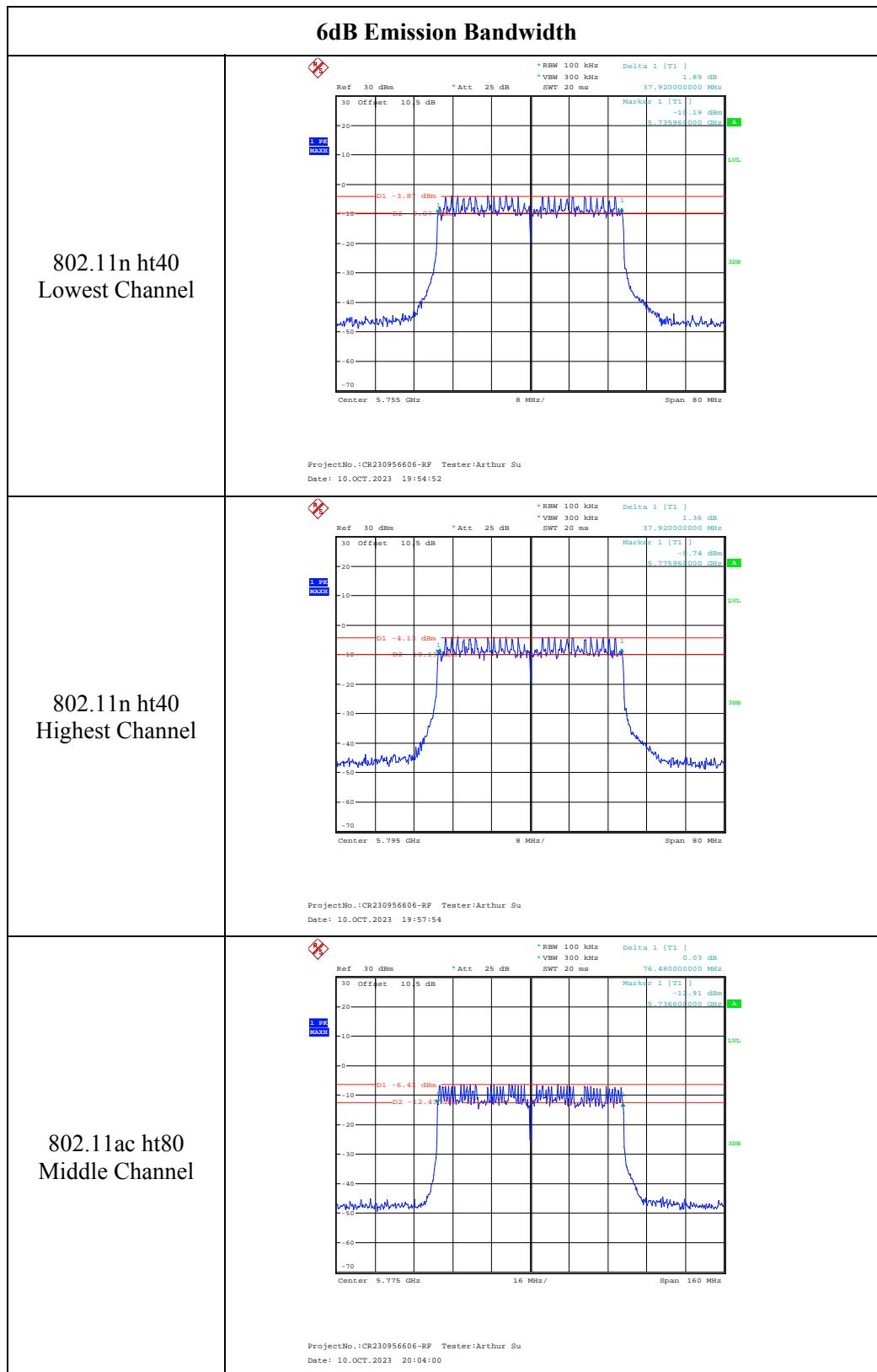


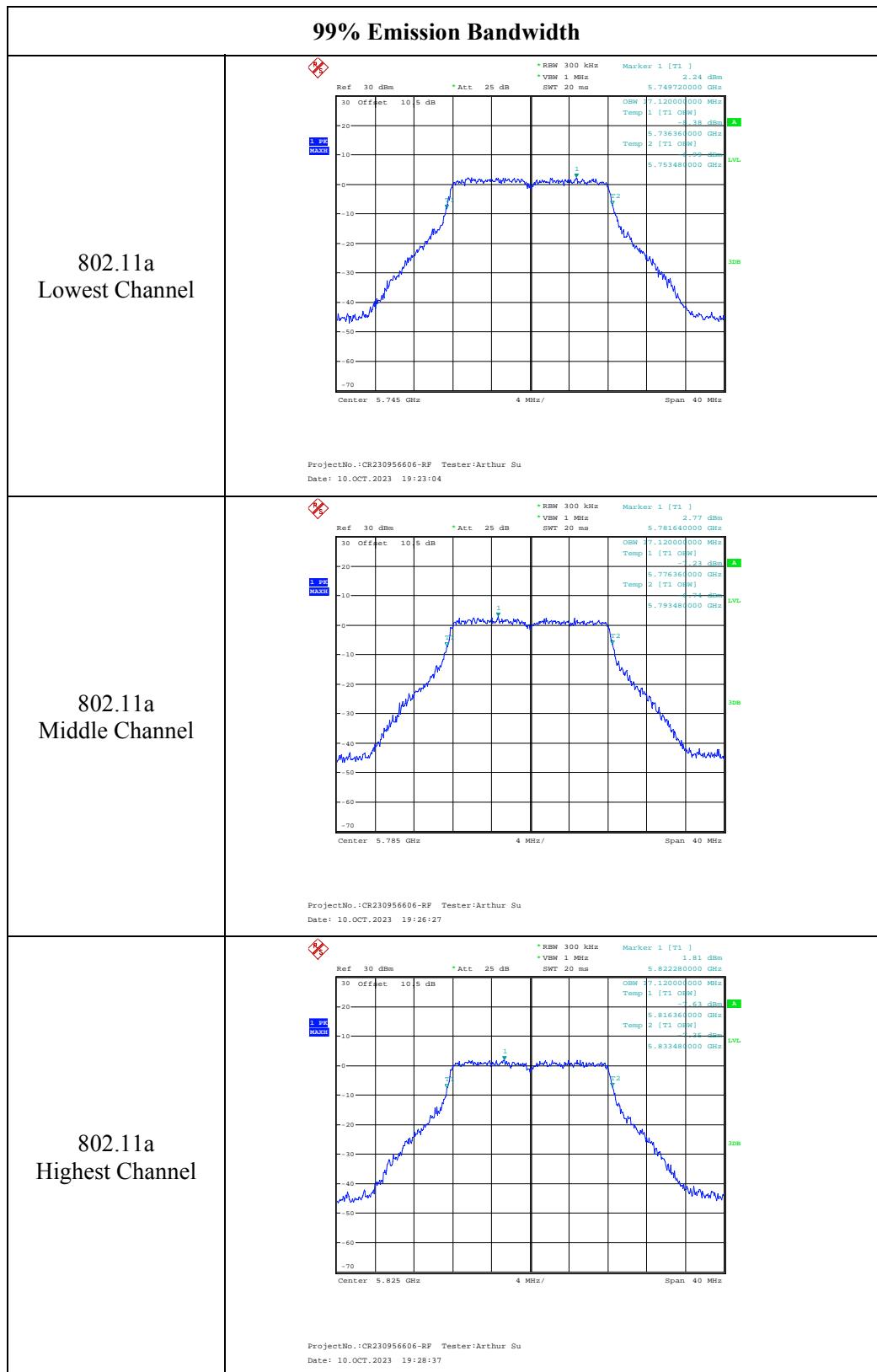


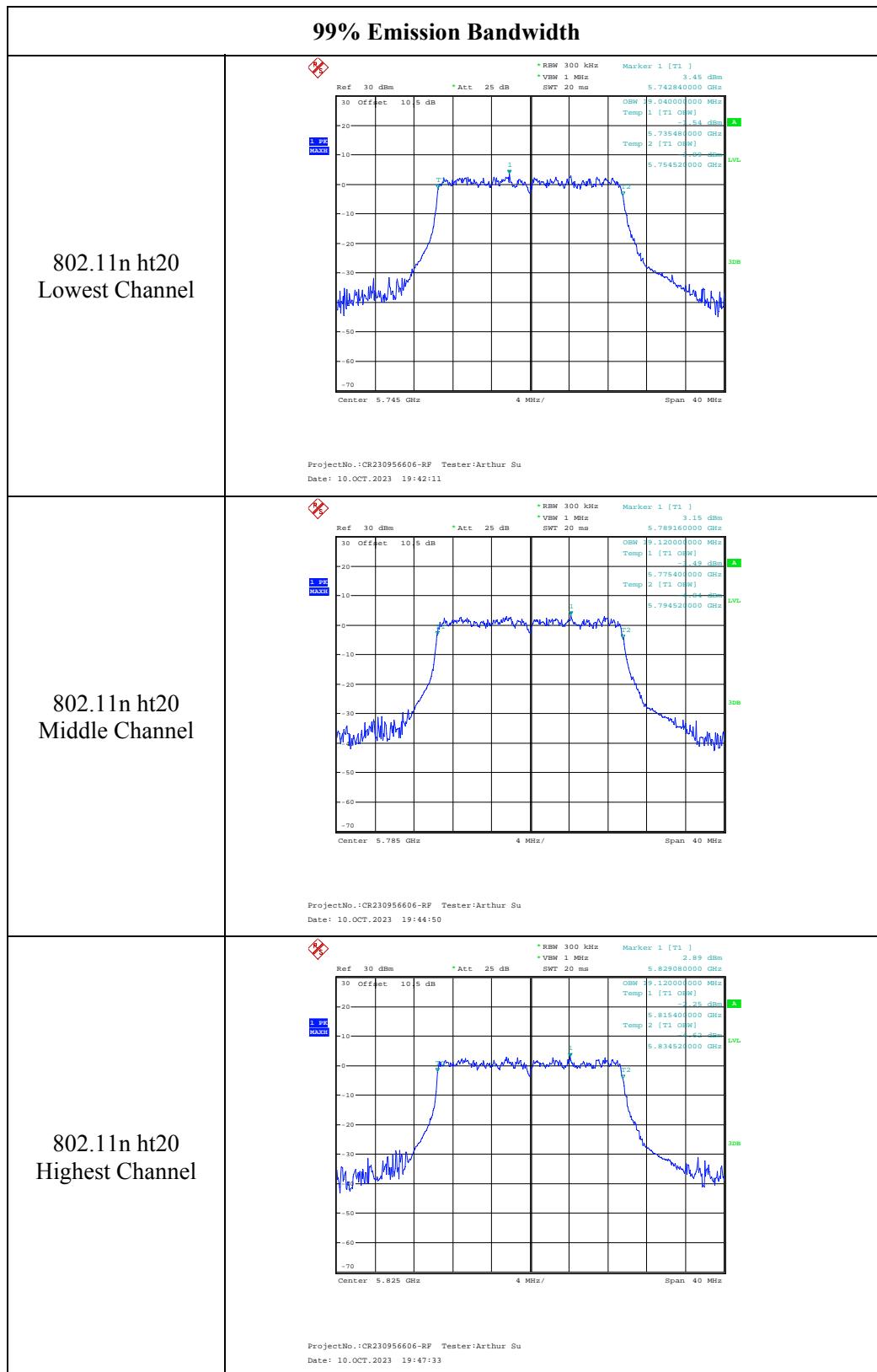


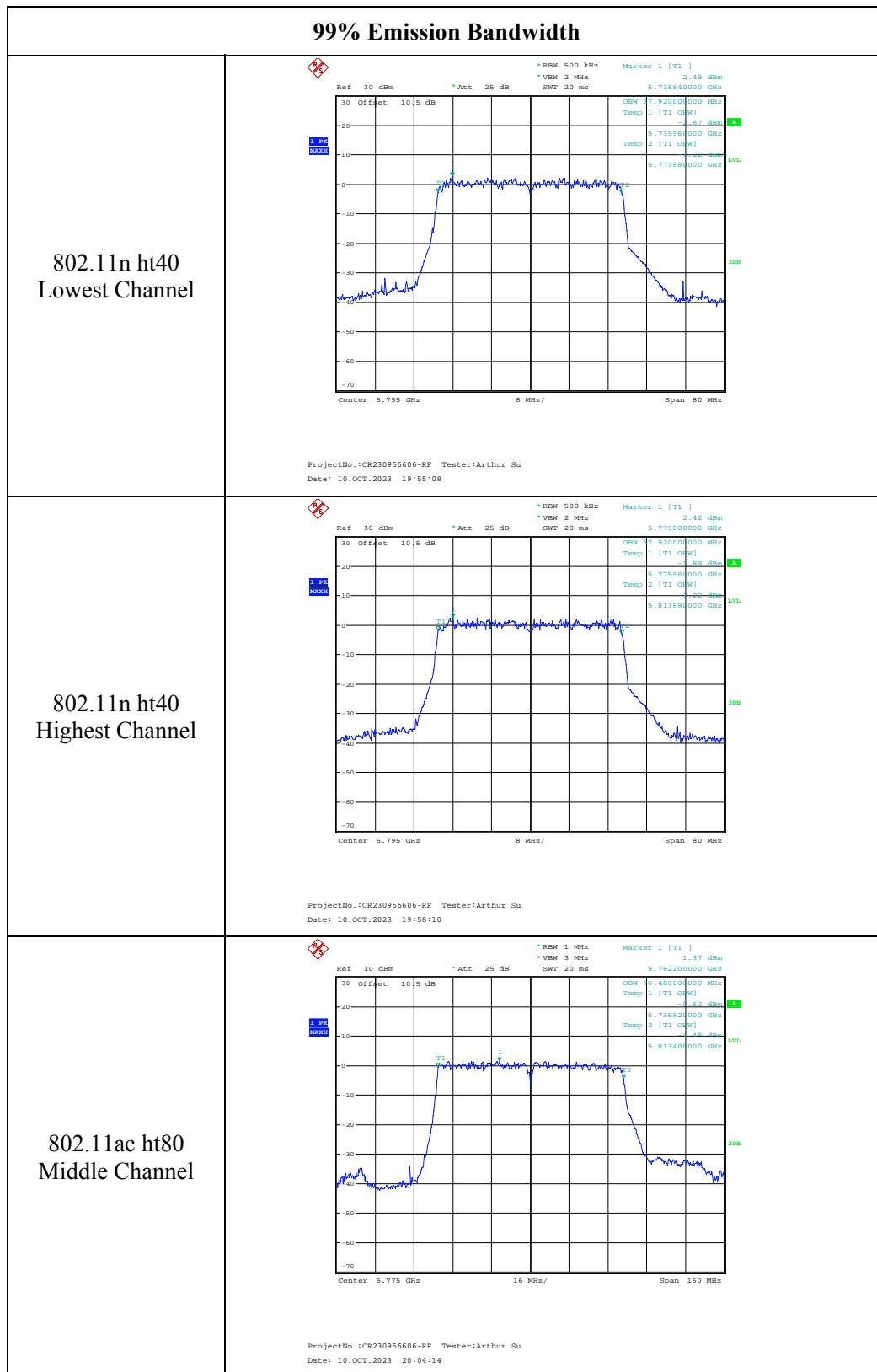
5725-5850MHz:











4.4 Maximum Conducted Output Power

| | | | |
|----------------|-----------|--------------|--------------|
| Serial Number: | 2BQ8-1 | Test Date: | 2023-09-27 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Arthur Su | Test Result: | Pass |

Environmental Conditions:

| | | | | | |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature: (°C) | 25.6 | Relative Humidity: (%) | 60 | ATM Pressure: (kPa) | 100.5 |
|----------------------|------|---------------------------|----|------------------------|-------|

Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|---------------|---------------|------------------|----------------------|
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |
| Anritsu | Power Meter | ML2495A | 1106009 | 2023/8/4 | 2024/8/3 |
| Anritsu | Pulse Power Sensor | MA2411A | 10780 | 2023/8/4 | 2024/8/3 |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

5150-5250 MHz:

| Test Modes | Test Frequency (MHz) | Max. Conducted Average Output Power (dBm) | | | |
|----------------|-------------------------|--|---------|--------------|-------|
| | | Chain 0 | Chain 1 | Total | Limit |
| 802.11a | 5180 | 10.43 | 11.24 | / | 24 |
| | 5200 | 10.45 | 10.43 | / | 24 |
| | 5240 | 10.39 | 10.45 | / | 24 |
| 802.11n ht20 | 5180 | 8.95 | 9.47 | 12.23 | 24 |
| | 5200 | 8.85 | 9.2 | 12.04 | 24 |
| | 5240 | 8.89 | 9.08 | 12.00 | 24 |
| 802.11n ht40 | 5190 | 8.71 | 9.38 | 12.07 | 24 |
| | 5230 | 8.58 | 9.02 | 11.82 | 24 |
| 802.11ac vht80 | 5210 | 8.48 | 9.21 | 11.87 | 24 |

Note:

1. The device is a client device.
2. The total Average output power = $10 \log [(10^{\text{Chain 0 Average output power}/10}) + (10^{\text{Chain 1 Average output power}/10})]$
3. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 ;

Directional gain = $G_{\text{ANT MAX}}$ + Array Gain = $2.98 \text{ dBi} < 6 \text{ dBi}$;

So, the maximum output power limit does not need to be reduced.

5725-5850 MHz:

| Test Modes | Test Frequency(MHz) | Max. Conducted Average Output Power(dBm) | | | |
|----------------|---------------------|--|---------|--------------|-------|
| | | Chain 0 | Chain 1 | Total | Limit |
| 802.11a | 5745 | 9.93 | 10.47 | / | 30 |
| | 5785 | 10.05 | 10.41 | / | 30 |
| | 5825 | 9.63 | 9.94 | / | 30 |
| 802.11n ht20 | 5745 | 8.72 | 9.37 | 12.07 | 30 |
| | 5785 | 8.86 | 9.37 | 12.13 | 30 |
| | 5825 | 8.53 | 9.1 | 11.83 | 30 |
| 802.11n ht40 | 5755 | 8.36 | 8.91 | 11.65 | 30 |
| | 5795 | 8.26 | 8.92 | 11.61 | 30 |
| 802.11ac vht80 | 5775 | 8.48 | 9.23 | 11.88 | 30 |

Note:

1. The total Average output power = $10 \log [(10^{\text{Chain 0 Average output power}/10}) + (10^{\text{Chain 1 Average output power}/10})]$

2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4 ;Directional gain = $G_{\text{ANT MAX}} + \text{Array Gain} = 2.98 \text{ dBi} < 6 \text{ dBi}$;

So, the maximum output power limit does not need to be reduced.

4.5 Maximum Power Spectral Density

| | | | |
|----------------|-----------|--------------|--------------|
| Serial Number: | 2BQ8-1 | Test Date: | 2023/10/10 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Arthur Su | Test Result: | Pass |

| Environmental Conditions: | | | | | |
|----------------------------------|------|---------------------------|----|------------------------|-----|
| Temperature: (°C) | 25.1 | Relative Humidity: (%) | 56 | ATM Pressure: (kPa) | 101 |

Test Equipment List and Details:

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|---------------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSU26 | 200256 | 2023-03-31 | 2024-03-30 |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

5150-5250 MHz:

| Test Modes | Test Frequency (MHz) | Maximum Power Spectral Density (dBm/MHz) | | | |
|----------------|-------------------------|---|---------|-------|-------|
| | | Chain 0 | Chain 1 | Total | Limit |
| 802.11a | 5180 | 0.84 | 1.76 | / | 11 |
| | 5200 | 1.29 | 1.42 | / | 11 |
| | 5240 | 1.41 | 1.57 | / | 11 |
| 802.11n ht20 | 5180 | -0.01 | 0.58 | 3.31 | 11 |
| | 5200 | 0.03 | 0.47 | 3.27 | 11 |
| | 5240 | -0.02 | 0.35 | 3.18 | 11 |
| 802.11n ht40 | 5190 | -3.17 | -2.38 | 0.25 | 11 |
| | 5230 | -3.08 | -2.56 | 0.20 | 11 |
| 802.11ac vht80 | 5210 | -6.19 | -5.35 | -2.74 | 11 |

Note:

1. The device is a client device.
2. The total Power Spectral Density = $10 \log [(10^{\text{Chain 0 Power Spectral Density}/10}) + (10^{\text{Chain 1 Power Spectral Density}/10})]$
3. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on IEEE 802.11 devices, the Array Gain = $10 \log (N_{\text{ANT}}/N_{\text{SS}})$ dB;
So, the Directional gain = $G_{\text{ANT MAX}} + 10 \log (N_{\text{ANT}}/N_{\text{SS}}) = 2.98 + 10 \log (2/1) = 5.98 \text{ dBi} < 6 \text{ dBi}$.
So, the power spectral density (PSD) limit does not need to be reduced.
4. for the Duty cycle <98%, and duty cycle variations exceed ±2%, KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 was performed to the PSD test.

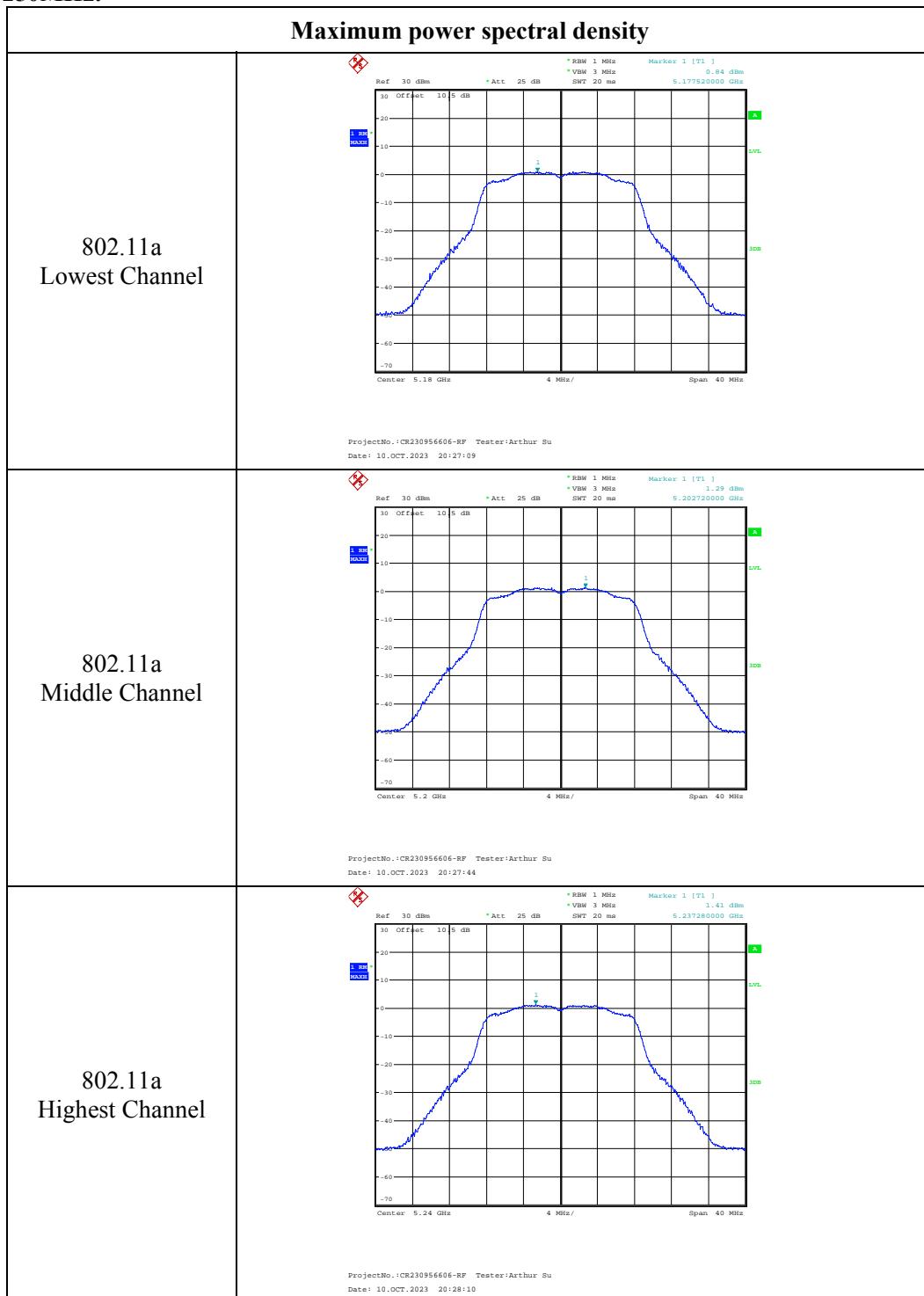
5725-5850 MHz:

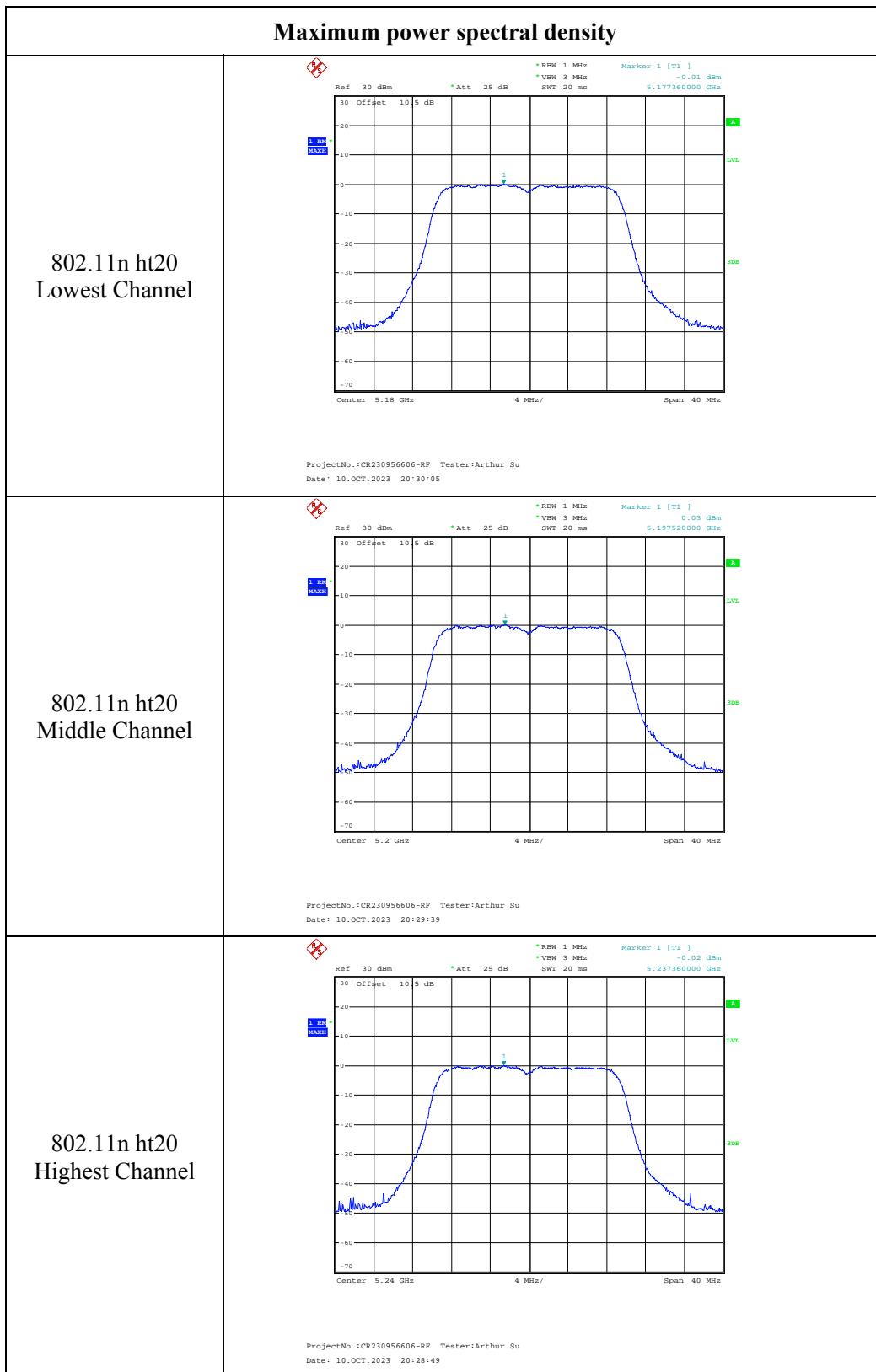
| Test Modes | Test Frequency (MHz) | Maximum Power Spectral Density (dBm/500kHz) | | | |
|----------------|-------------------------|--|---------|-------|-------|
| | | Chain 0 | Chain 1 | Total | Limit |
| 802.11a | 5745 | -1.55 | -0.93 | / | 30 |
| | 5785 | -1.56 | -1.13 | / | 30 |
| | 5825 | -2.05 | -1.55 | / | 30 |
| 802.11n ht20 | 5745 | -2.25 | -1.49 | 1.16 | 30 |
| | 5785 | -2.02 | -1.49 | 1.26 | 30 |
| | 5825 | -2.41 | -1.8 | 0.92 | 30 |
| 802.11n ht40 | 5755 | -5.21 | -4.65 | -1.91 | 30 |
| | 5795 | -5.56 | -4.71 | -2.10 | 30 |
| 802.11ac vht80 | 5775 | -7.74 | -6.95 | -4.32 | 30 |

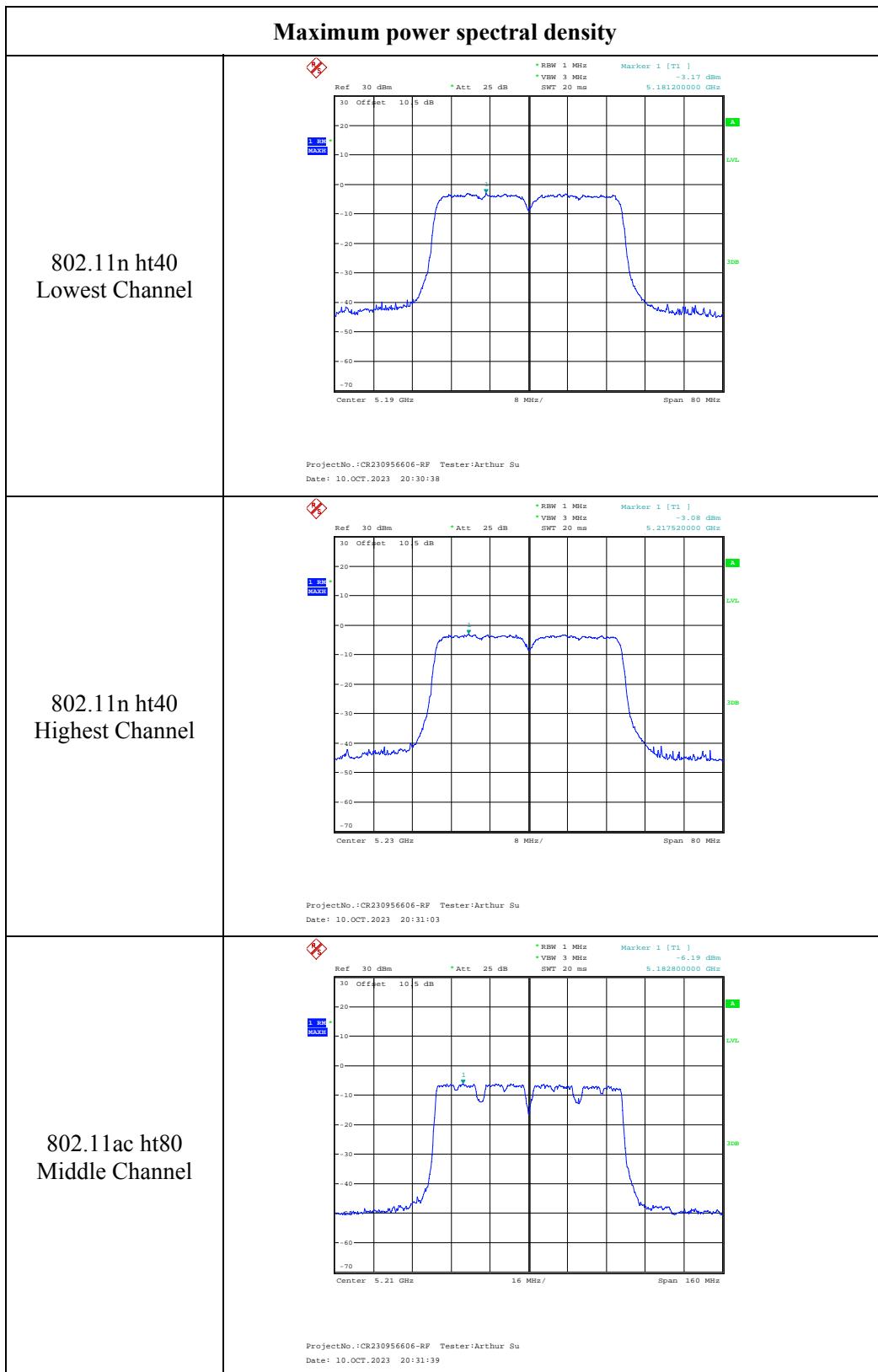
Note:

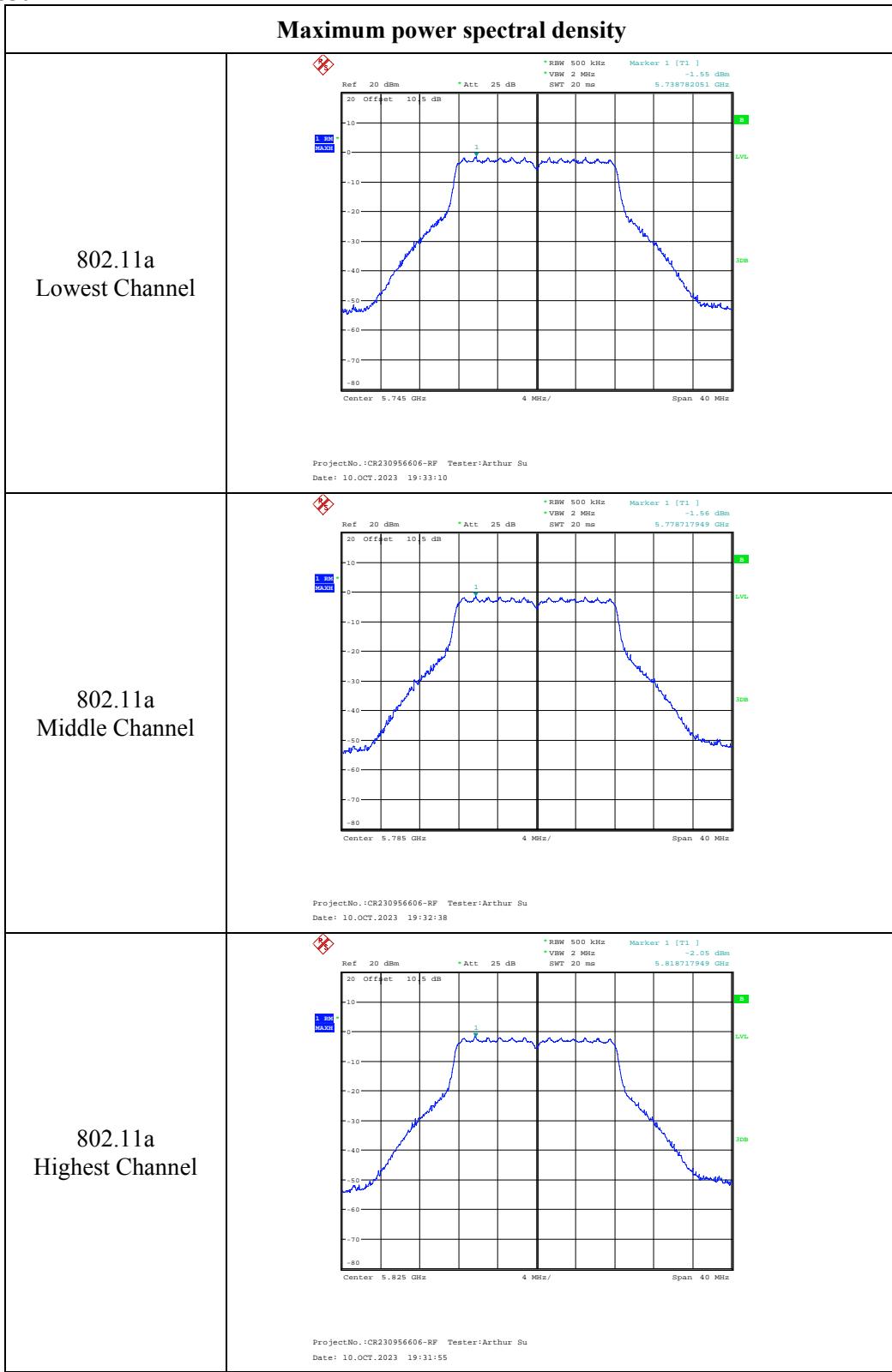
1. The total Power Spectral Density = $10 * \log [(10^{\text{Chain 0 Power Spectral Density}/10}) + (10^{\text{Chain 1 Power Spectral Density}/10})]$
2. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on IEEE 802.11 devices, the Array Gain = $10 \log (N_{\text{ANT}}/N_{\text{SS}})$ dB;
So, the Directional gain = $G_{\text{ANT MAX}} + 10 \log (N_{\text{ANT}}/N_{\text{SS}}) = 2.98 + 10 \log (2/1) = 5.98 \text{ dBi} < 6 \text{ dBi}$.
So, the power spectral density (PSD) limit does not need to be reduced.
3. for the Duty cycle <98%, and duty cycle variations exceed $\pm 2\%$, KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 was performed to the PSD test.

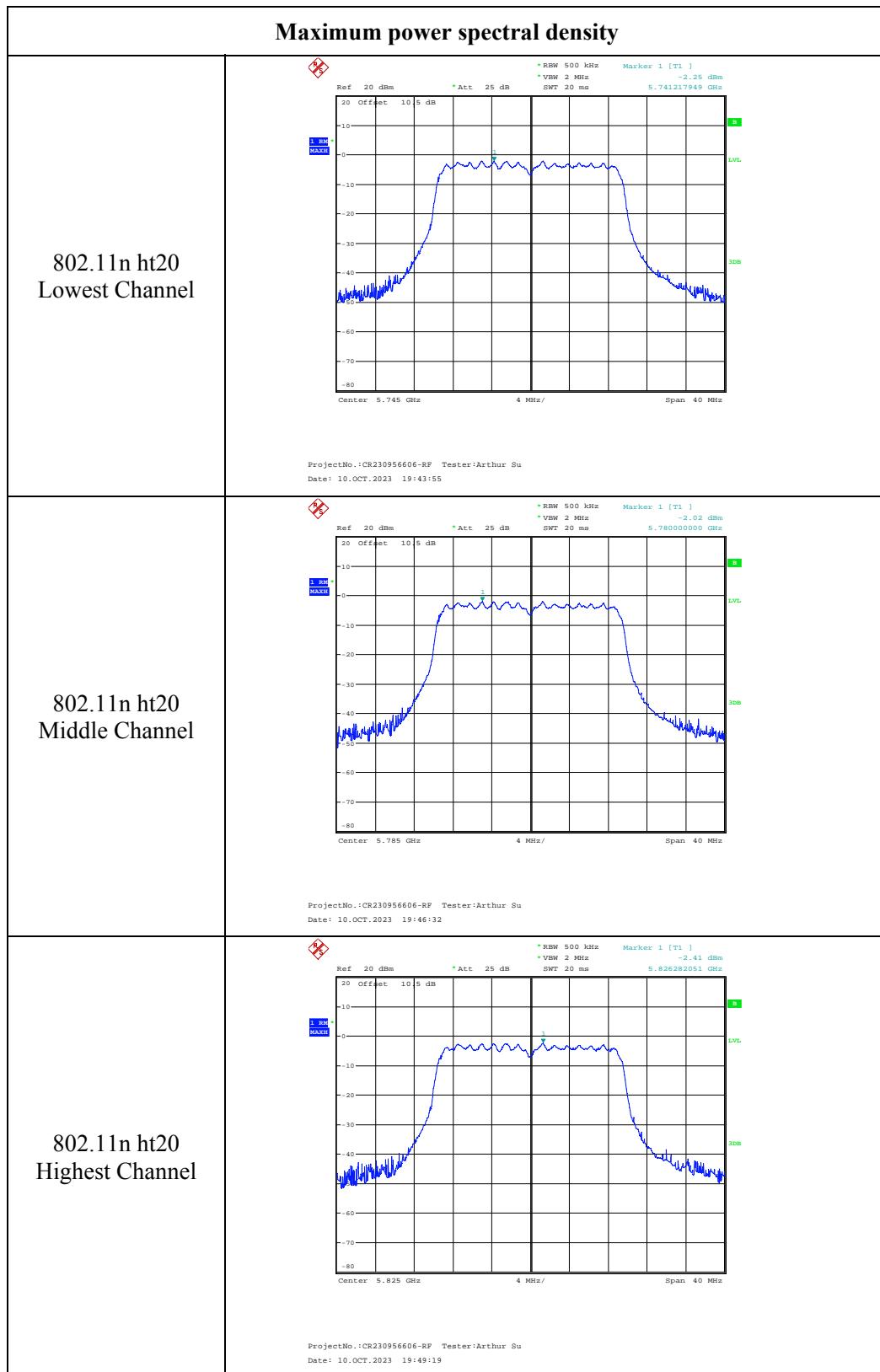
**Chain 0:
5150-5250MHz:**

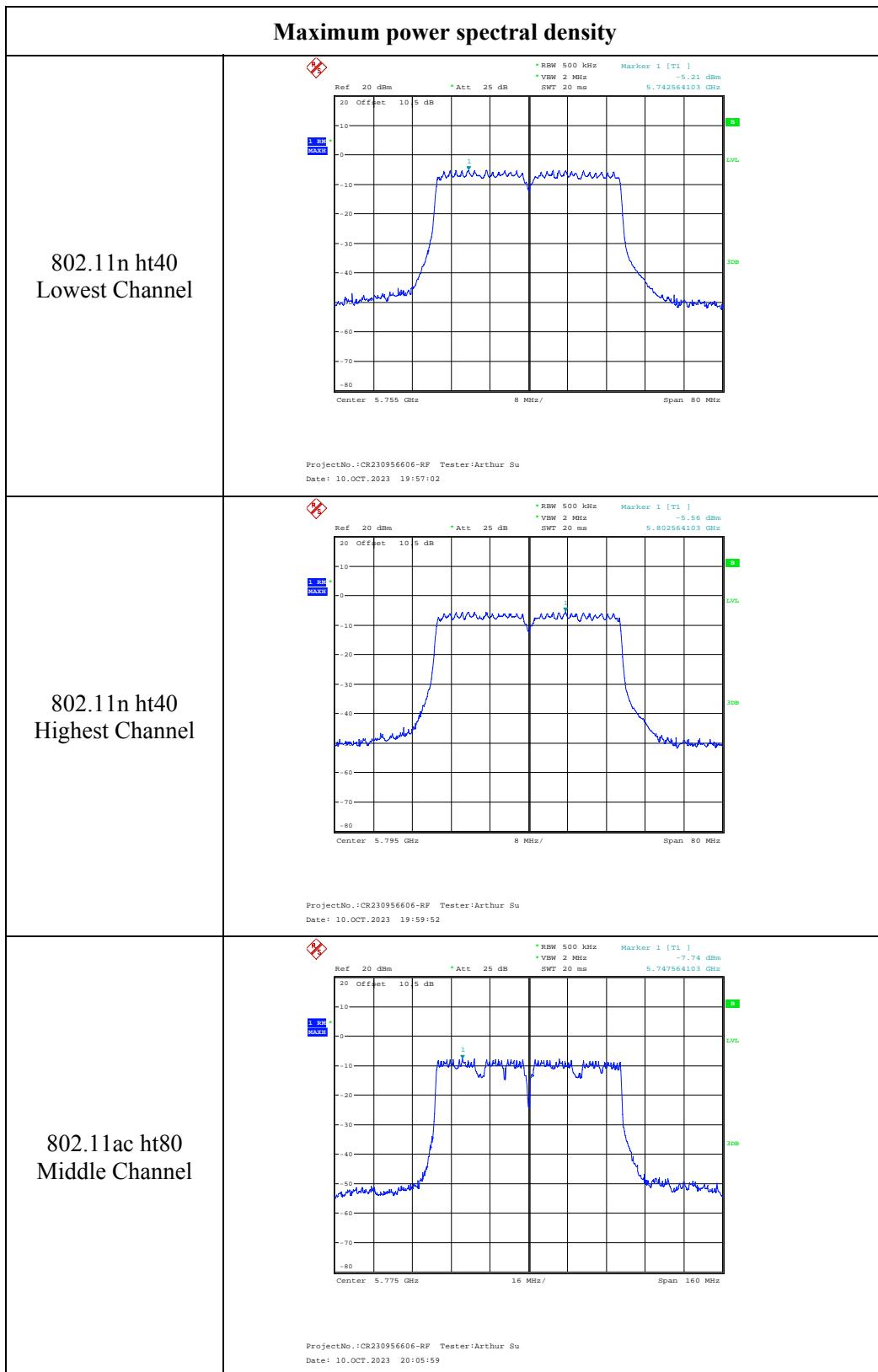


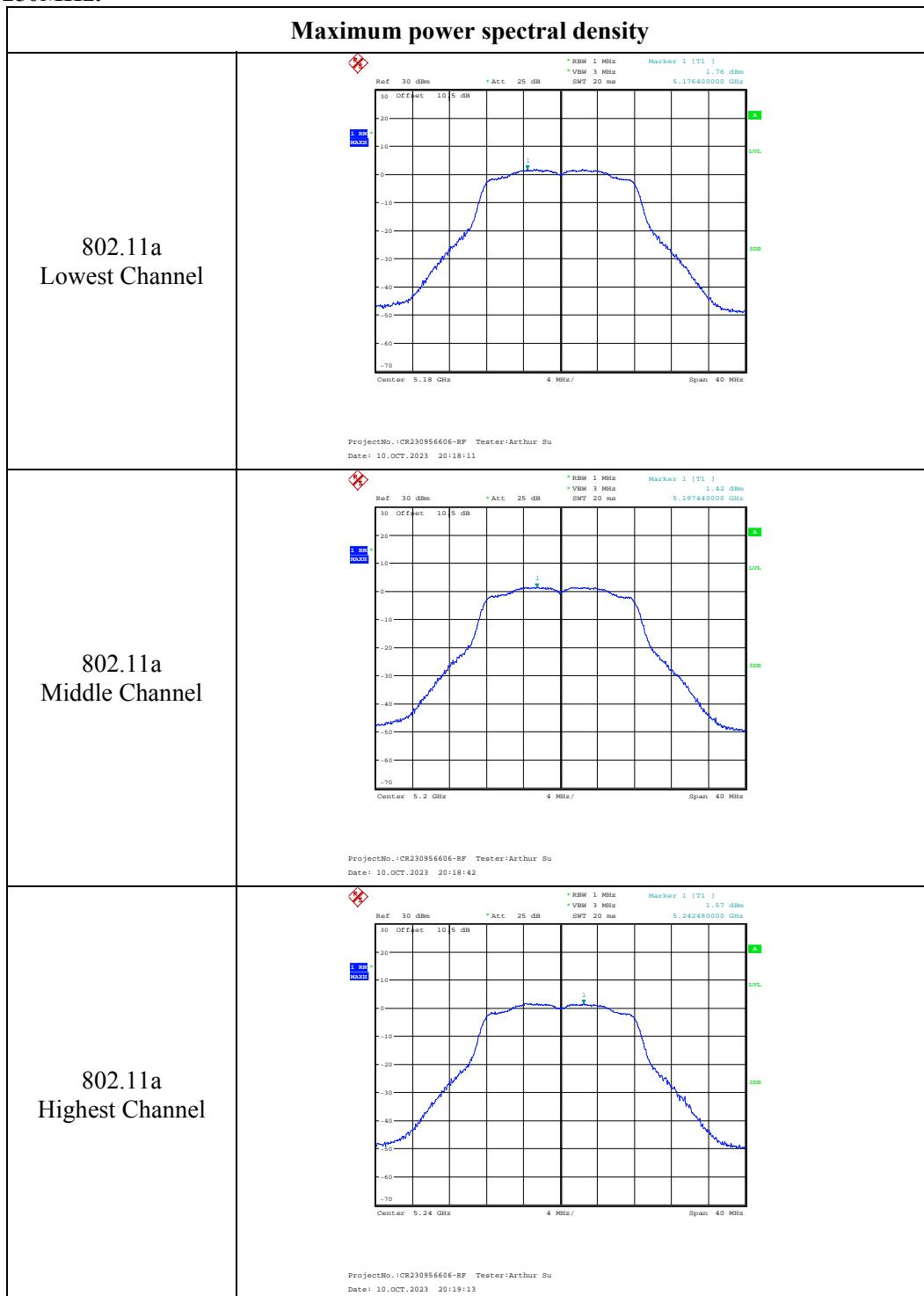


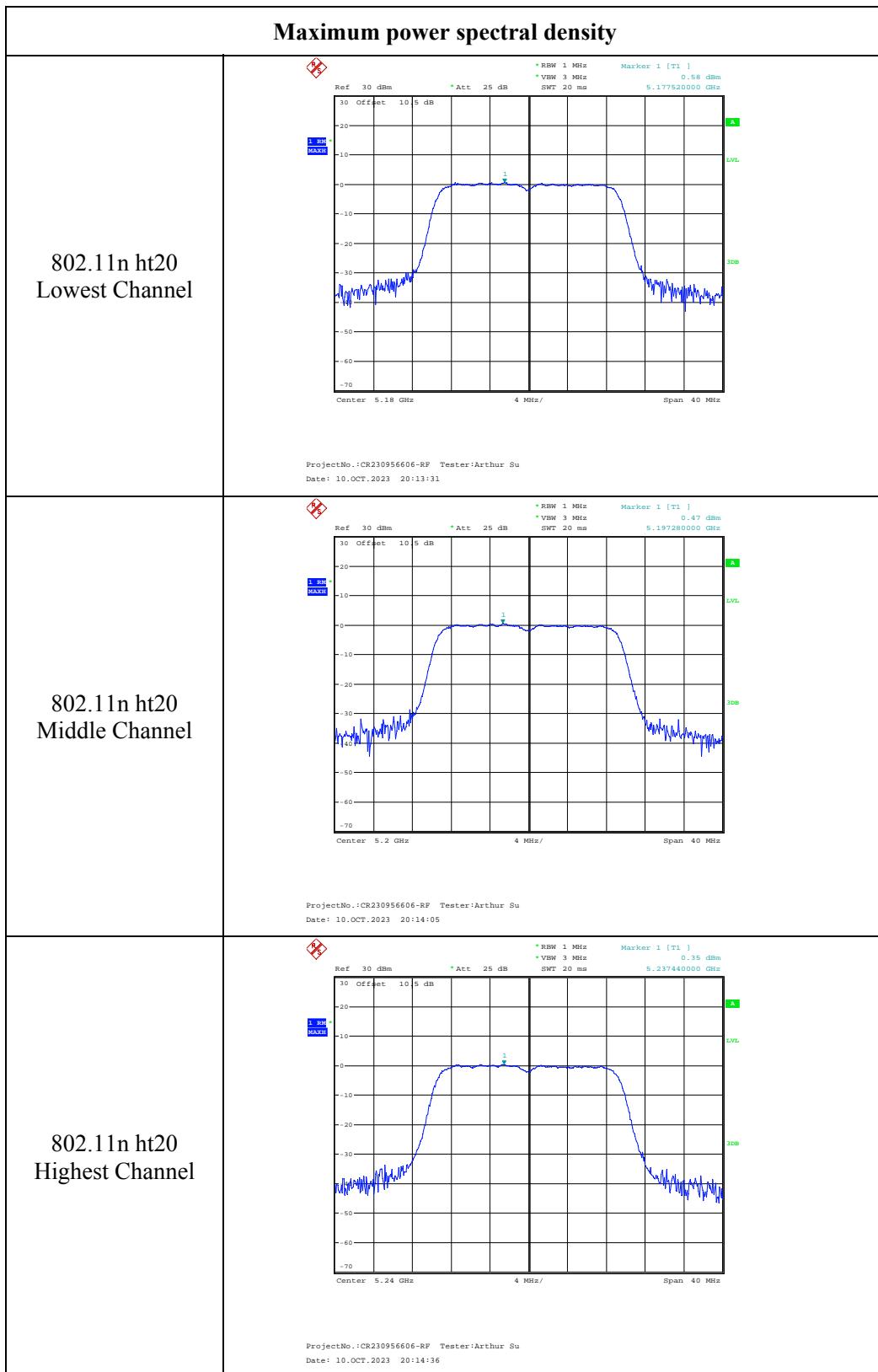


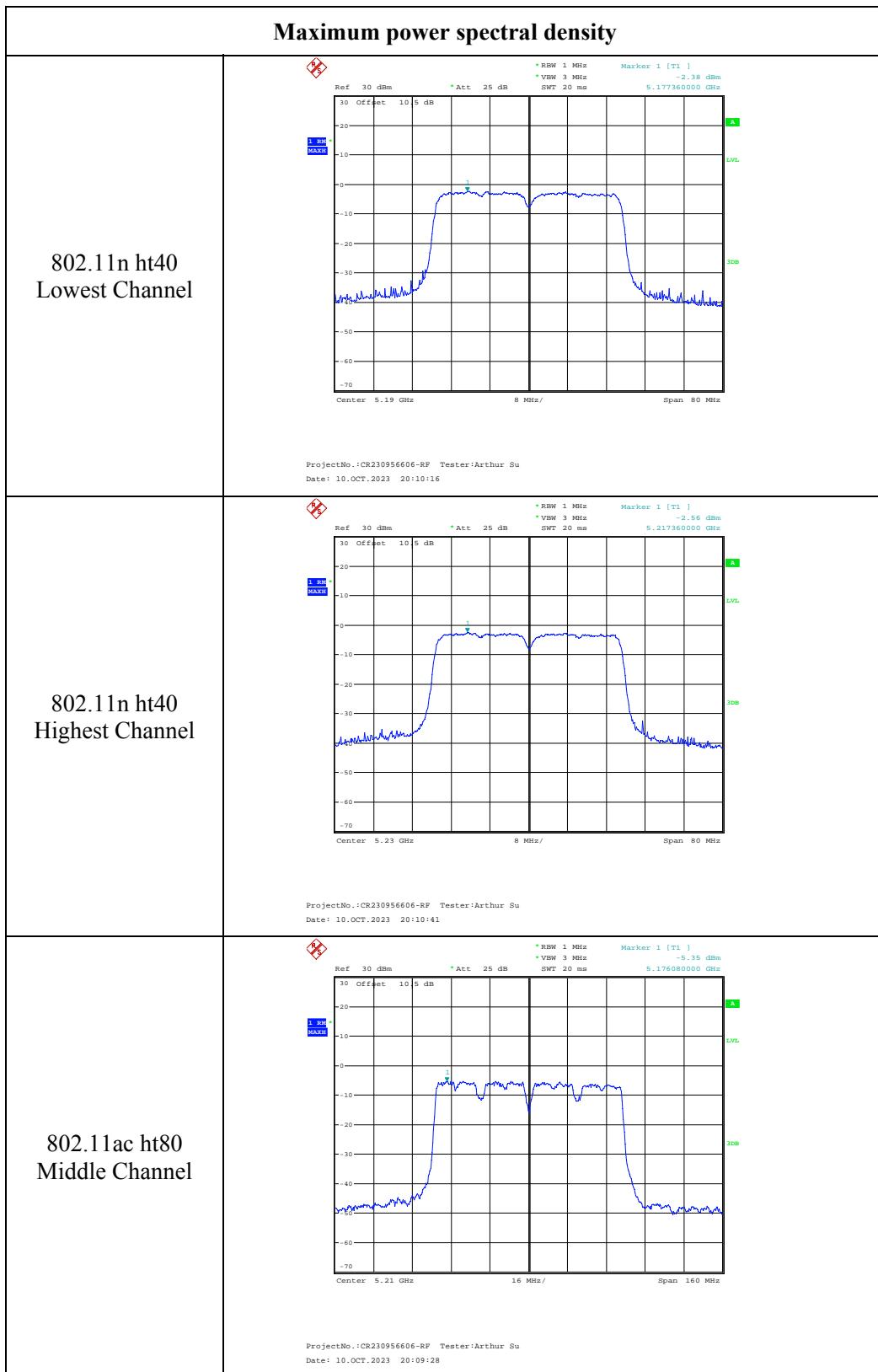
5725-5850MHz

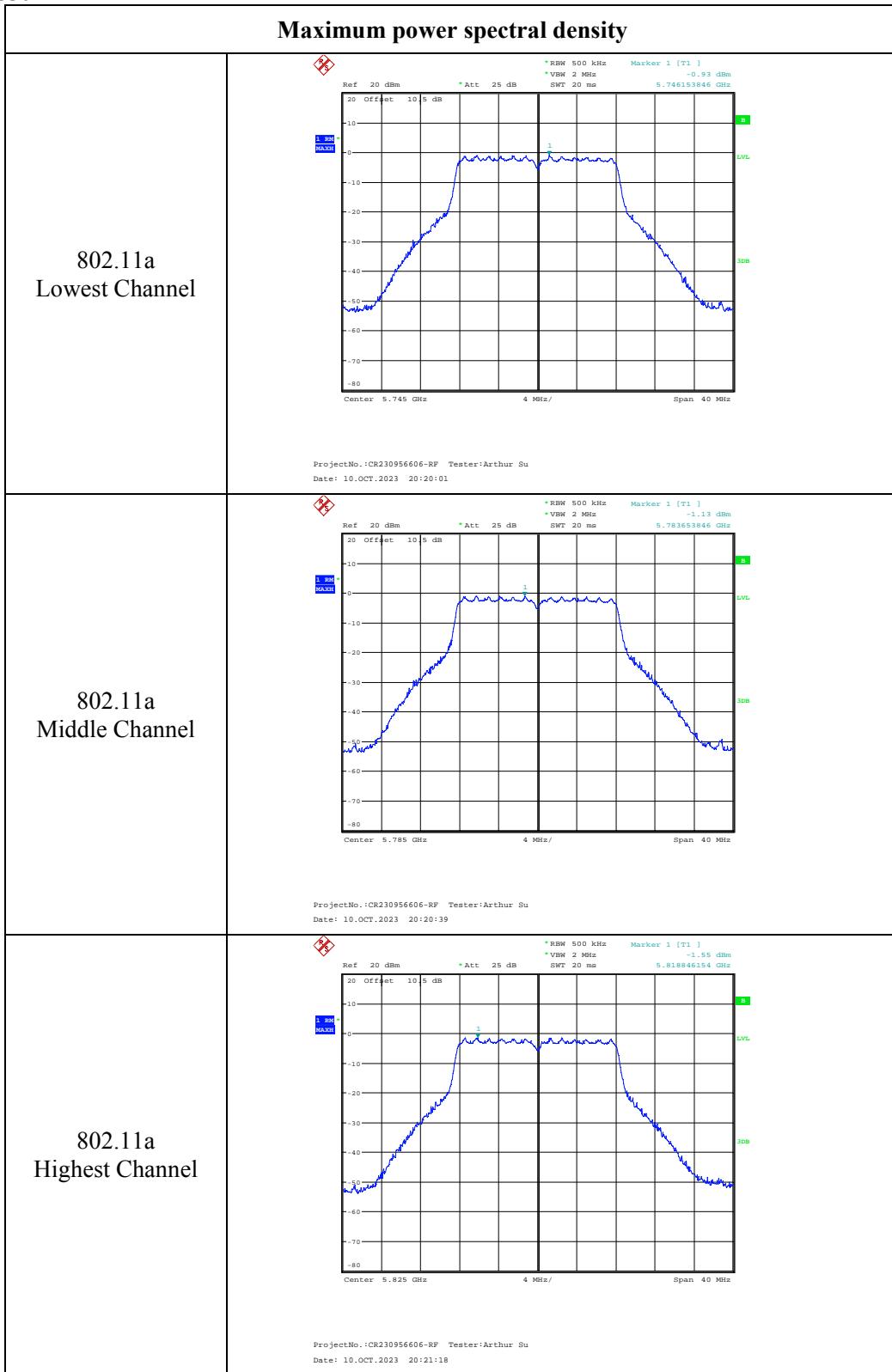


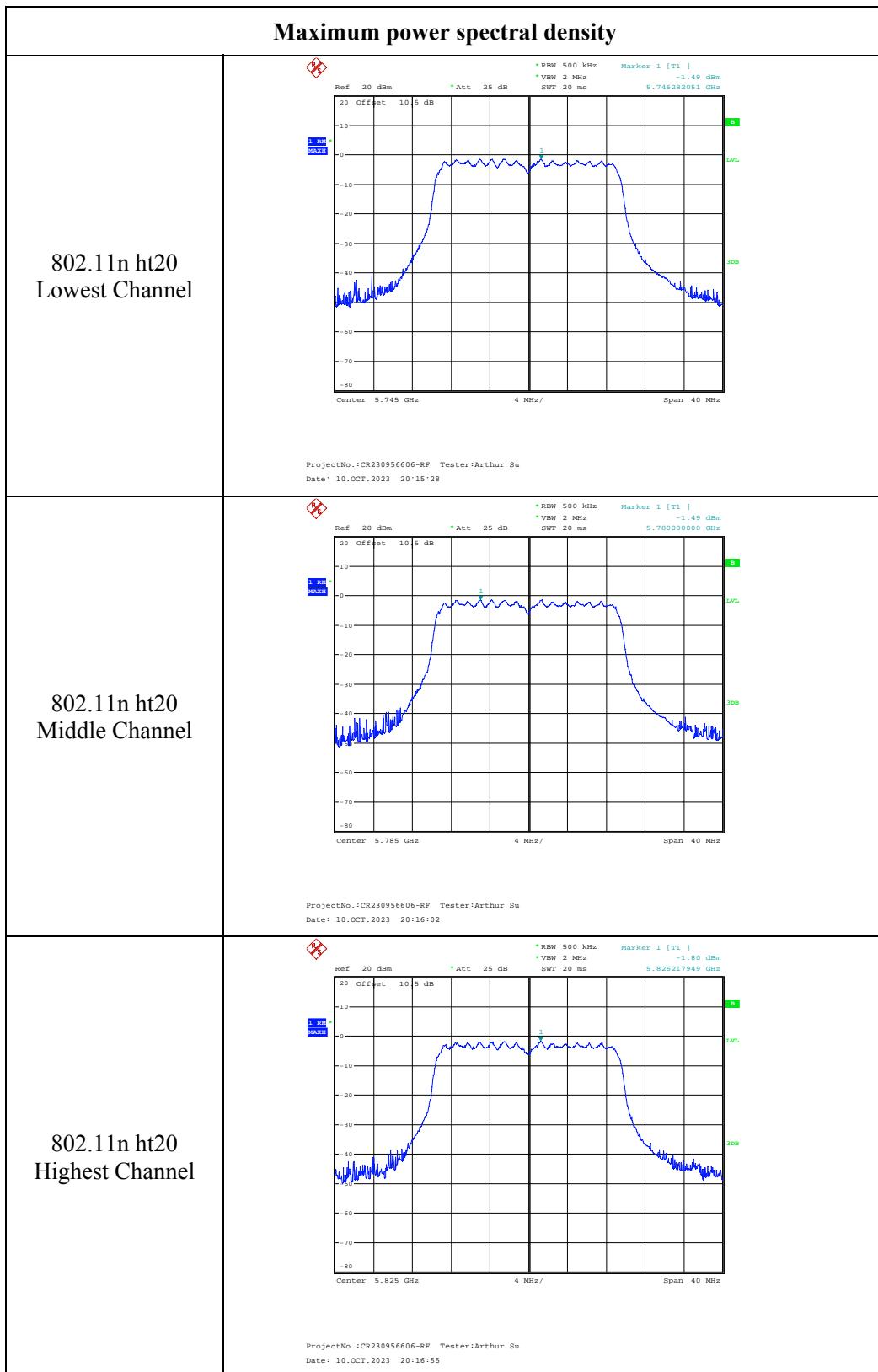


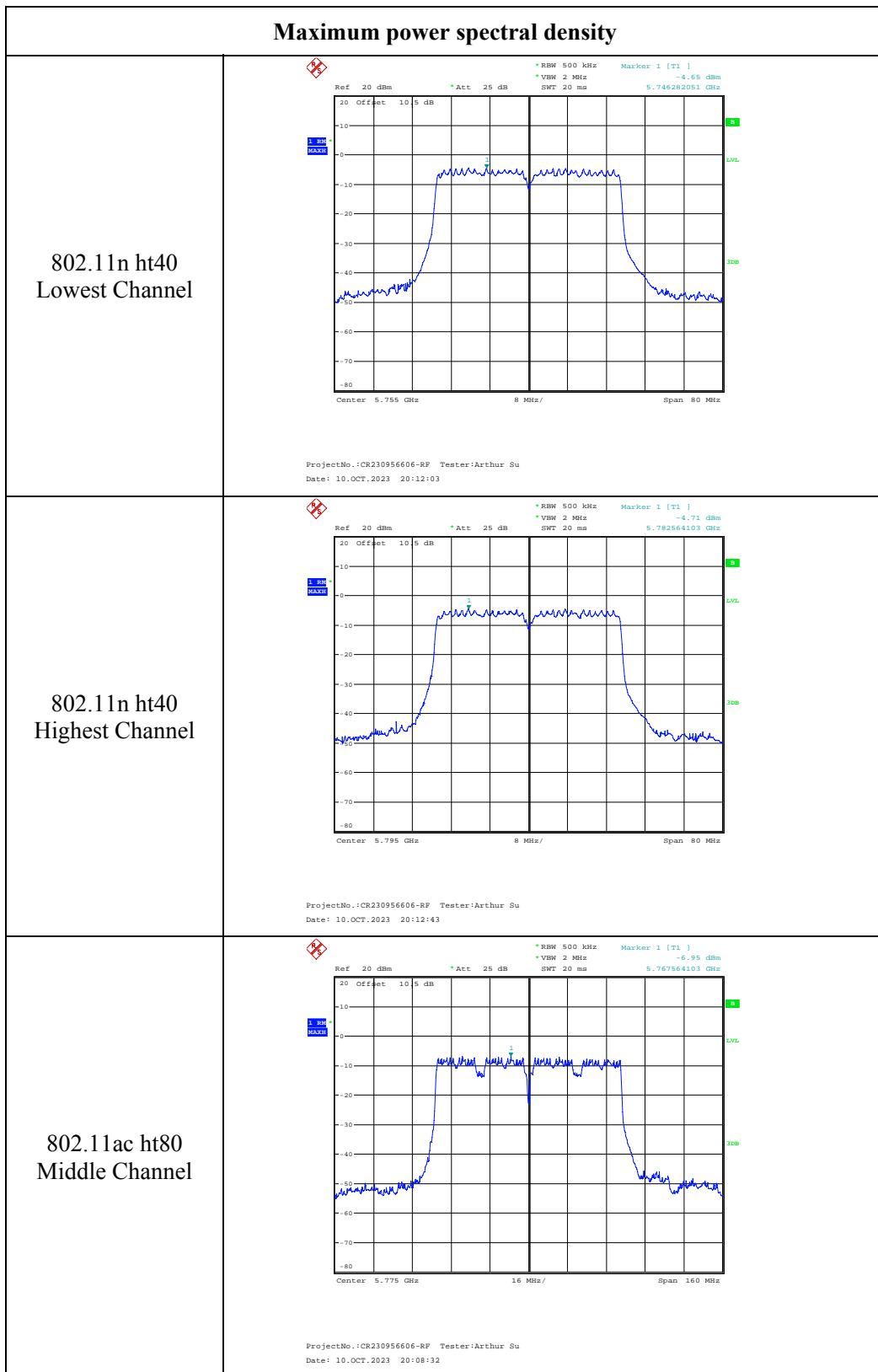
**Chain 1:
5150-5250MHz:**





5725-5850MHz





4.6 Duty Cycle

| | | | |
|----------------|-----------|--------------|--------------|
| Serial Number: | 2BQ8-1 | Test Date: | 2023/11/24 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | Arthur Su | Test Result: | Pass |

Environmental Conditions:

| | | | | | |
|----------------------|------|---------------------------|----|------------------------|-------|
| Temperature: (°C) | 25.5 | Relative Humidity: (%) | 54 | ATM Pressure: (kPa) | 101.1 |
|----------------------|------|---------------------------|----|------------------------|-------|

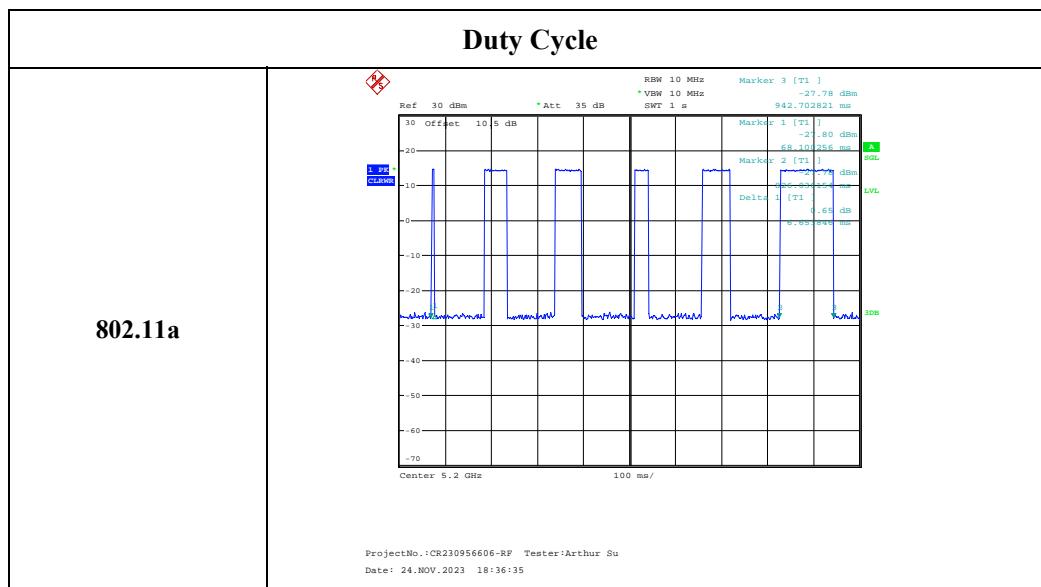
Test Equipment List and Details:

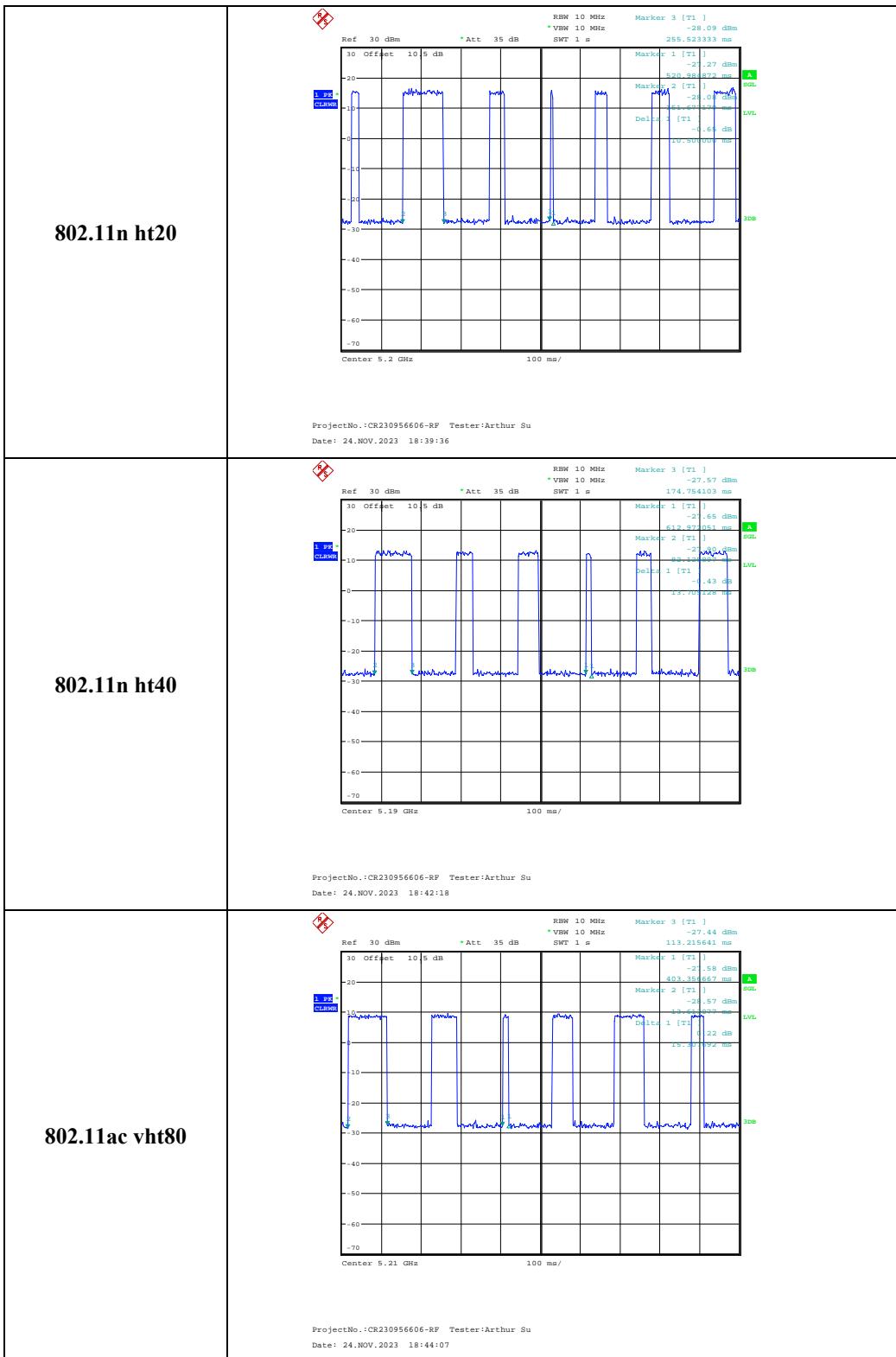
| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|--------------------|---------------|---------------|------------------|----------------------|
| R&S | Spectrum Analyzer | FSU26 | 200256 | 2023-03-31 | 2024-03-30 |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |
| zhuoxiang | Coaxial Cable | SMA-178 | 211001 | Each time | N/A |

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

| Test Modes | Maximum Ton (ms) | Ton+off (ms) | Duty Cycle (%) | 1/T (Hz) | Duty Cycle Factor (dB) |
|----------------|------------------|--------------|----------------|----------|------------------------|
| 802.11a | 6.654 | / | Not constant | 150 | / |
| 802.11n ht20 | 10.500 | / | Not constant | 95 | / |
| 802.11n ht40 | 13.705 | / | Not constant | 73 | / |
| 802.11ac vht80 | 15.308 | / | Not constant | 65 | / |





5. MPE Based Exemption

5.1 Applicable Standard

According to §1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

| RF Source frequency (MHz) | Threshold ERP (watts) |
|---------------------------|-----------------------|
| 0.3-1.34 | $1,920 R^2$. |
| 1.34-30 | $3,450 R^2/f^2$. |
| 30-300 | $3.83 R^2$. |
| 300-1,500 | $0.0128 R^2 f$. |
| 1,500-100,000 | $19.2R^2$. |

5.2 Measurement Result

| Radio | Frequency (MHz) | $\lambda/2II$ (mm) | Distance (mm) | Exemption ERP (mW) | Maximum Conducted Power including Tune-up Tolerance (dBm) | Antenna Gain (dBi) | ERP | | MPE-Based Exemption |
|-------------|-----------------|--------------------|---------------|--------------------|---|--------------------|-------|--------|---------------------|
| | | | | | | | dBm | mW | |
| 2.4GHz WLAN | 2412-2462 | 19.81 | 200 | 768 | 23 | 2.83 | 23.68 | 233.35 | Compliant |
| BLE | 2402-2480 | 19.89 | 200 | 768 | 1 | 2.28 | 1.13 | 1.30 | Compliant |
| BT 3.0 | 2402-2480 | 19.89 | 200 | 768 | 5 | 2.28 | 5.13 | 3.26 | Compliant |
| 5.2GHz WLAN | 5180-5240 | 9.22 | 200 | 768 | 12.5 | 2.98 | 13.33 | 21.53 | Compliant |
| 5.8GHz WLAN | 5745-5825 | 8.32 | 200 | 768 | 12.5 | 2.98 | 13.33 | 21.53 | Compliant |

Note:

1. The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.
2. WLAN and Bluetooth can't simultaneously transmit.
3. ERP= Maximum Conducted Power including Tune-up Tolerance + Antenna Gain -2.15.

Result: The device compliant the MPE-Based Exemption at 20cm distances.

6. EUT PHOTOGRAPHS

Please refer to the attachment CR230956606-EXP EUT EXTERNAL PHOTOGRAPHS and
CR230956606-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230956606-00D-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====