



**中认信通**  
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



# TEST REPORT

**Applicant:** INGENICO

Address: 9 Avenue de la gare - Rovaltain TGV, BP25156, Valence Cedex 9, 26958 , France

**FCC ID:** XKB-RX5CLWBT

**Product Name:** Smart POS Terminal

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

**Report Number:** CR230739799-00F

**Date Of Issue:** 2023/8/24

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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

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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**DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230739799-00F	Original Report	2023/8/24

## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment under Test (EUT)

#### 1.1.1 General:

<b>EUT Name:</b>	Smart POS Terminal
<b>EUT Model:</b>	AXIUM RX5000
<b>Operation Frequency:</b>	5180-5240 MHz (802.11a/n ht20/ac vht20) 5190-5230 MHz(802.11n ht40/ac vht40) 5210 MHz(802.11ac vht80) 5260-5320 MHz (802.11a/n ht20/ac vht20) 5270-5310 MHz(802.11n ht40/ac vht40) 5290 MHz(802.11ac vht80) 5500-5720 MHz (802.11a/n ht20/ac vht20) 5510-5710 MHz(802.11n ht40/ac vht40) 5530-5690MHz(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)
<b>Maximum Average Output Power (Conducted):</b>	16.61dBm (5150-5250 MHz) 16.92dBm (5250-5350 MHz) 17.25dBm (5470-5725 MHz) 17.22dBm (5725-5850 MHz)
<b>Modulation Type:</b>	OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
<b>Rated Input Voltage:</b>	DC 8-14V from adapter
<b>Serial Number:</b>	28CQ-2(for AC line conducted emissions and RF conducted test) 284X-1(for Radiated Emission test)
<b>EUT Received Date:</b>	2023/7/11
<b>EUT Received Status:</b>	Good

#### 1.1.2 Operation Frequency Detail:

For 802.11a/n ht20/ac vht20:

5150-5250MHz Band		5250-5350 MHz Band		5470-5725 MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	<b>5180</b>	52	<b>5260</b>	100	<b>5500</b>	149	<b>5745</b>
40	5200	56	5280	104	5520	153	5765
44	<b>5220</b>	60	<b>5300</b>	108	5540	157	<b>5785</b>
48	<b>5240</b>	64	<b>5320</b>	112	5560	161	5805
/	/	/	/	116	<b>5580</b>	165	<b>5825</b>
/	/	/	/	120	5600	/	/
/	/	/	/	124	5620	/	/
/	/	/	/	128	5640	/	/
/	/	/	/	132	5660	/	/
/	/	/	/	136	5680	/	/
/	/	/	/	140	<b>5700</b>	/	/
/	/	/	/	144	<b>5720</b>	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

**For 802.11n ht40/ac vht40:**

5150-5250MHz Band		5250-5350 MHz Band		5470-5725 MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	<b>5190</b>	54	<b>5270</b>	102	<b>5510</b>	151	<b>5755</b>
46	<b>5230</b>	62	<b>5310</b>	110	<b>5550</b>	159	<b>5795</b>
/	/	/	/	118	5590	/	/
/	/	/	/	126	5630	/	/
/	/	/	/	134	<b>5670</b>	/	/
/	/	/	/	142	<b>5710</b>	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

**For 802.11ac vht80:**

5150-5250MHz Band		5250-5350 MHz Band		5470-5725 MHz Band		5725-5850MHz Band	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	<b>5210</b>	58	<b>5290</b>	106	<b>5530</b>	155	<b>5775</b>
/	/	/	/	122	<b>5610</b>	/	/
/	/	/	/	138	<b>5690</b>	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

Note: Additional channels cross the band 5650-5725MHz and 5725-5850 MHz, Conducted output power/Power Spectral Density/bandwidth test with the additional channel to compliance with stricter limit of the two bands(5650-5725MHz more stricter).

**1.1.3 Antenna Information Detail▲:**

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
ZHONGTIAN XUN Communication Technology Co.,Ltd	IFA	50	2.4~2.5GHz	1.02 dBi
			5.15~5.25GHz	0.53 dBi
			5.25~5.35GHz	0.53 dBi
			5.47~5.725GHz	2.23 dBi
			5.725~5.85GHz	1.56 dBi

The Method of §15.203 Compliance:

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

**1.1.4 Accessory Information:**

<b>Accessory Description</b>	<b>Manufacturer</b>	<b>Model</b>	<b>Parameters</b>
Adapter 1#	Phihong Technology Co.,Ltd.	PSC16A-080L6	Input: 100-240Vac 50/60Hz 0.5A Output: 8.0Vdc 2.0A
Adapter 2#	Phihong Technology Co., Ltd	AM24W-080B	Input: 100-240Vac 50/60Hz 0.6A Output: 8.0Vdc 3.0A
Adapter 3#	Kuantech (Beihai) Co., Ltd.	KSA-32A-080300M2	Input: 100-240Vac 50/60Hz 1.0A Output: 8.0Vdc 3.0A
Cable 1#	INGENICO	USB Cable(296114303AD)	4m
Cable 2#	INGENICO	USB Cable(296107316AD)	1.5m
Cable 3#	INGENICO	Ethernet & power cable (296248646	4m
Cable 4#	INGENICO	RS232 Cable(296114928AB)	5m
Cable 5#	INGENICO	retail USB Cable(296116381AE)	5m

## 1.2 Description of Test Configuration

### 1.2.1 EUT Operation Condition:

<b>EUT Operation Mode:</b>	The system was configured for testing in Engineering Mode, which was provided by the manufacturer. Per pretest, adapter 2#+Cable1# was the worst, which was recorded in the report.
<b>Equipment Modifications:</b>	No
<b>EUT Exercise Software:</b>	Adb command

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
802.11a	Lowest	5180	6Mbps	40
	Middle	5220	6Mbps	15
	Highest	5240	6Mbps	15
802.11n ht20	Lowest	5180	MCS0	50
	Middle	5220	MCS0	25
	Highest	5240	MCS0	25
802.11n ht40	Lowest	5190	MCS0	55
	Highest	5230	MCS0	15
802.11ac vht80	Middle	5210	MCS0	45

#### 5250-5350 MHz Band:

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5260	6Mbps	15
	Middle	5300	6Mbps	12
	Highest	5320	6Mbps	12
802.11n ht20	Lowest	5260	MCS0	25
	Middle	5300	MCS0	25
	Highest	5320	MCS0	65
802.11n ht40	Lowest	5270	MCS0	15
	Highest	5310	MCS0	70
802.11ac vht80	Middle	5290	MCS0	55

**5470-5725 MHz Band:**

<b>Test Modes</b>	<b>Test Channels</b>	<b>Test Frequency (MHz)</b>	<b>Data rate</b>	<b>Power Level Setting</b>
802.11a	Lowest	5500	6Mbps	15
	Middle	5580	6Mbps	15
	Highest	5700	6Mbps	0
	Cross	5720	6Mbps	0
802.11n ht20	Lowest	5500	MCS0	27
	Middle	5580	MCS0	20
	Highest	5700	MCS0	40
	Cross	5720	MCS0	15
802.11n ht40	Lowest	5510	MCS0	70
	Highest	5550	MCS0	15
	Lowest	5670	MCS0	15
	Cross	5710	MCS0	10
802.11ac vht80	Lowest	5530	MCS0	65
	Middle	5610	MCS0	10
	Highest	5690	MCS0	10

**5725-5850 MHz Band:**

<b>Test Modes</b>	<b>Test Channels</b>	<b>Test Frequency (MHz)</b>	<b>Data rate</b>	<b>Power Level Setting</b>
802.11a	Lowest	5745	6Mbps	0
	Middle	5785	6Mbps	0
	Highest	5825	6Mbps	0
802.11n ht20	Lowest	5745	MCS0	5
	Middle	5785	MCS0	15
	Highest	5825	MCS0	5
802.11n ht40	Lowest	5755	MCS0	5
	Highest	5795	MCS0	5
802.11ac vht80	Middle	5775	MCS0	7

## Note:

The system support 802.11a/n ht20/n ht40/ac vht20/ ac vht40/ ac vht80, the ac vht20/ ac vht40 were reduced since the identical parameters with 802.11n ht20 and ht40.

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.

**1.2.2 Support Equipment List and Details**

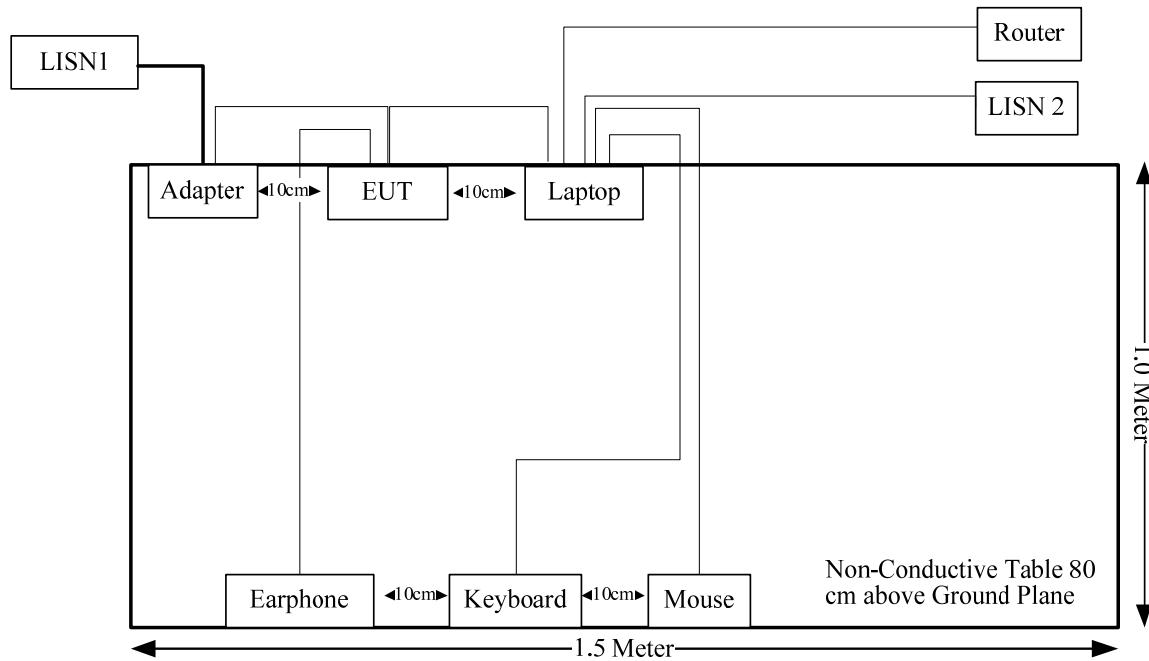
Manufacturer	Description	Model	Serial Number
ZIONCOM	Router	MB-R210-00	R16Y06M271022
ingenico	NFC Card	EINOLDA	EMZBNC21103001
PHILIPS	Mouse	SPK7214	M214BQ210411117
PHILIPS	Keyboard	SPK6234	K234210510745
CLC	Earphone	Blackview5.0	EMZBEP21103001W
Lenovo	Laptop	T460S	60PDTEK8

**1.2.3 Support Cable List and Details**

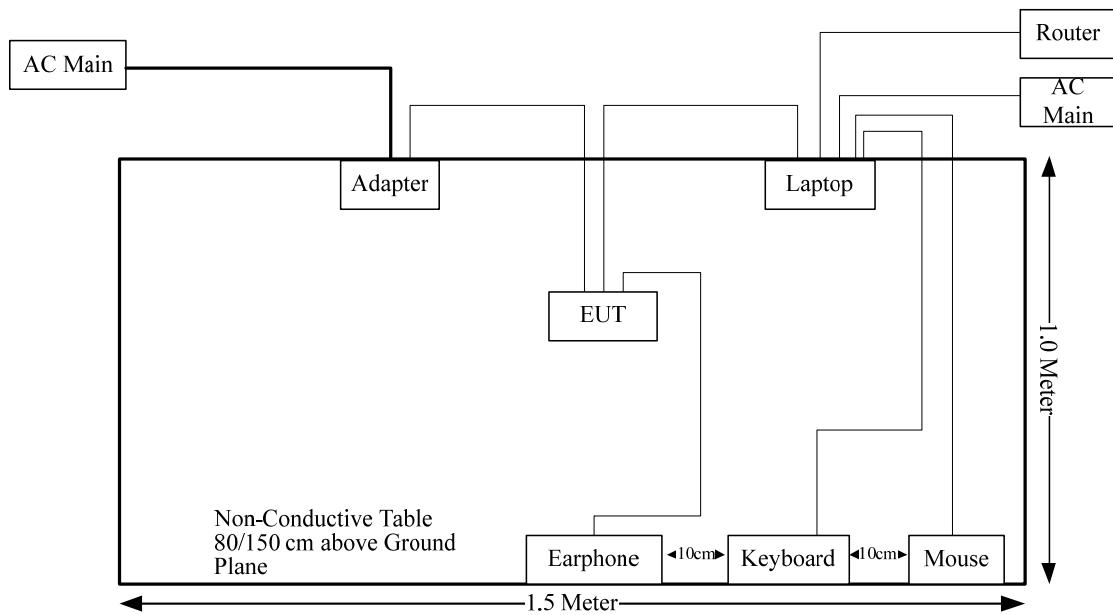
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Cable 1# USB Cable	No	No	4	Adapter	EUT
Keyboard Cable	No	No	1.2	Keyboard	laptop
Headset Cable	No	No	1.2	Audio Port of EUT	Earphone
Mouse Cable	No	No	1.2	Mouse	laptop

### 1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



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	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 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	±1.26 dB
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±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	Remark
FCC§15.207(a)	AC line conducted emissions	Compliant	/
FCC§15.205& §15.209 &§15.407(b)	Radiation Spurious Emissions	Compliant	/
FCC§15.407(a) (e)	Emission Bandwidth	/	See Note
FCC§15.407(a)	Conducted Transmitter Output Power	Reporting	/
FCC§15.407 (a)	Power Spectral Density	/	See Note
FCC§15.407 (f)	DFS	/	See Note
FCC§15.203	Antenna Requirement	Compliant	/

Note: The RF module inside the product have been certified, FCC ID: XKB-FCS950U, certified on 09/12/2023, which was change ID application based on the original module report of model: FCS950U (FCC ID: XMR2023FCS950U), per spot check the RF output power, the RF parameters identical with the RF module, the test result please refer to the original ID report: FR2D0802D, FR2D0802E, FR2D0802F CCICT is responsible for all the information provided in this report, except when information is provided by the customer as identified in this report.

### 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  $\mu$ 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 $\mu$ 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:

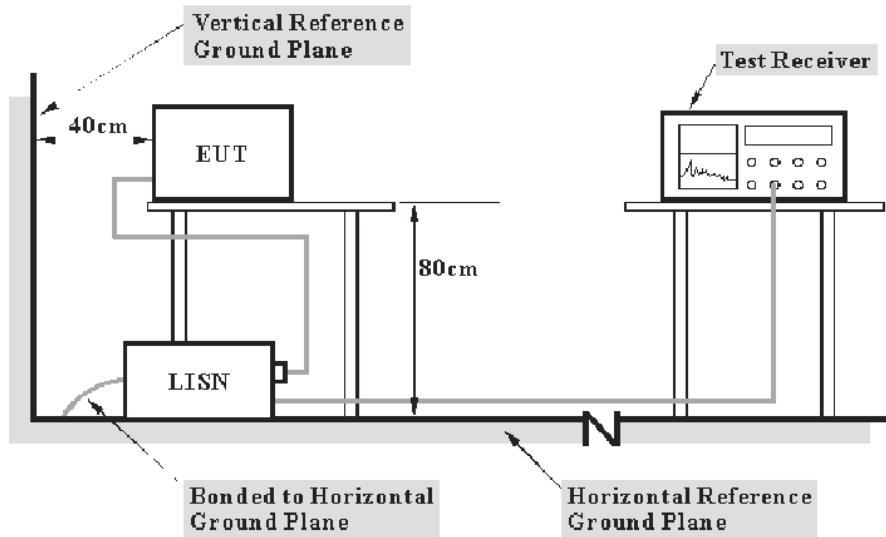
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ 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, obtainig 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:

$$\text{Result} = \text{Reading} + \text{Factor}$$

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:

$$\text{Margin} = \text{Limit} - \text{Result}$$

## 3.2 Radiation Spurious Emissions

### 3.2.1 Applicable Standard

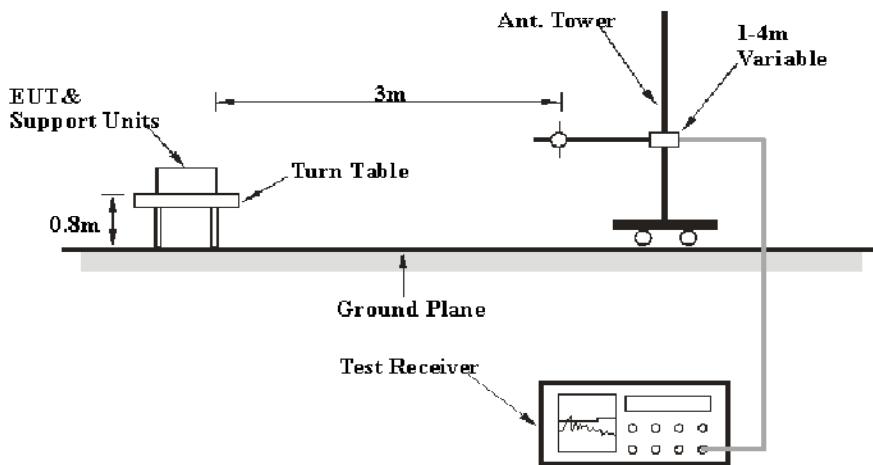
FCC §15.407 (b);

*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:

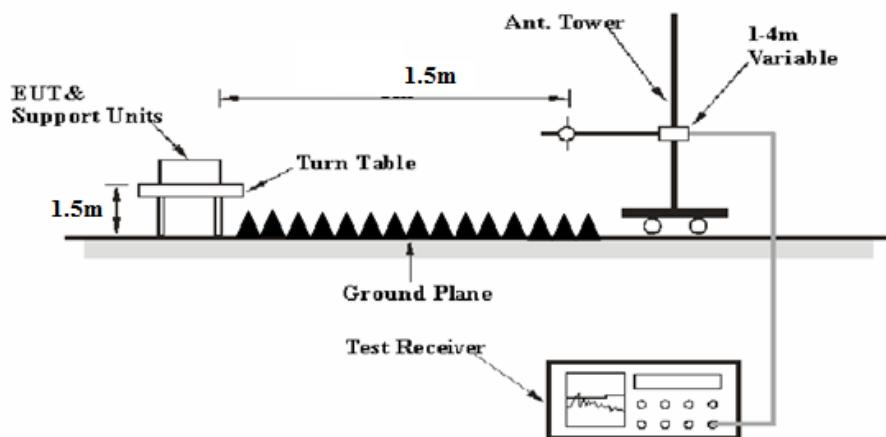
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.
- (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

**Below 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.

### 3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

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

30MHz-1000MHz:

Measurement	RBW	Video B/W	IF B/W
QP	120 kHz	300 kHz	120kHz

1GHz- 40GHz:

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

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:  $E [dB\mu V/m] = EIRP[dBm] + 95.2$ , 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

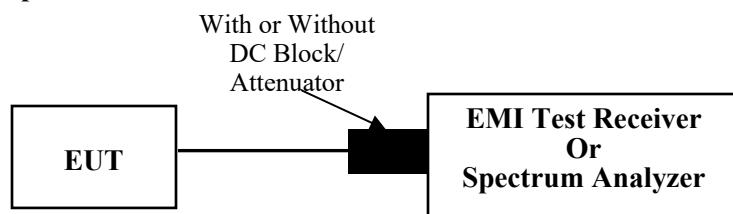
FCC §15.407 (a),(h)

(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.

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.

#### 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  $[10 \log (\text{OBW}/\text{RBW})]$  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)(iv)

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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.

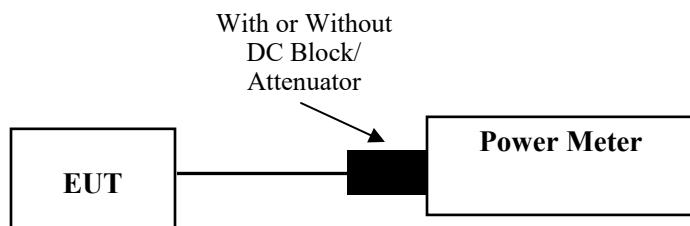
FCC §15.407(a) (2)

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 12.3.3.1

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)(iv)

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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.

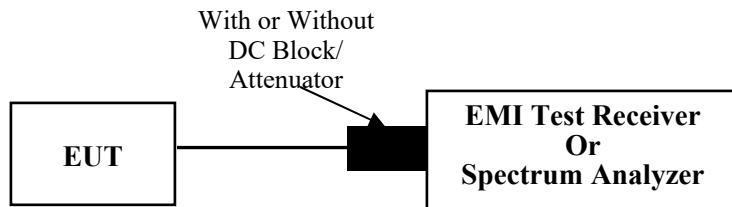
FCC §15.407(a) (2)

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  $\pm 2\%$**

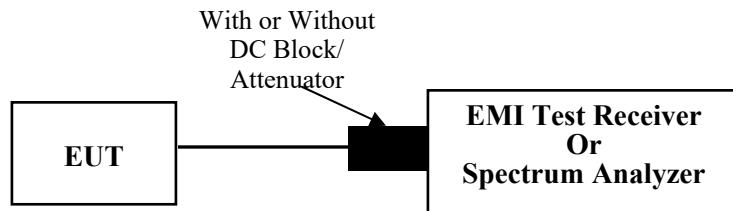
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 **Alternative** should be applied.

**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:	28CQ-2	Test Date:	2023/07/29
Test Site:	CE	Test Mode:	Transmitting (802.11a 5700MHz was the worst)
Tester:	David Huang	Test Result:	Pass

#### Environmental Conditions:

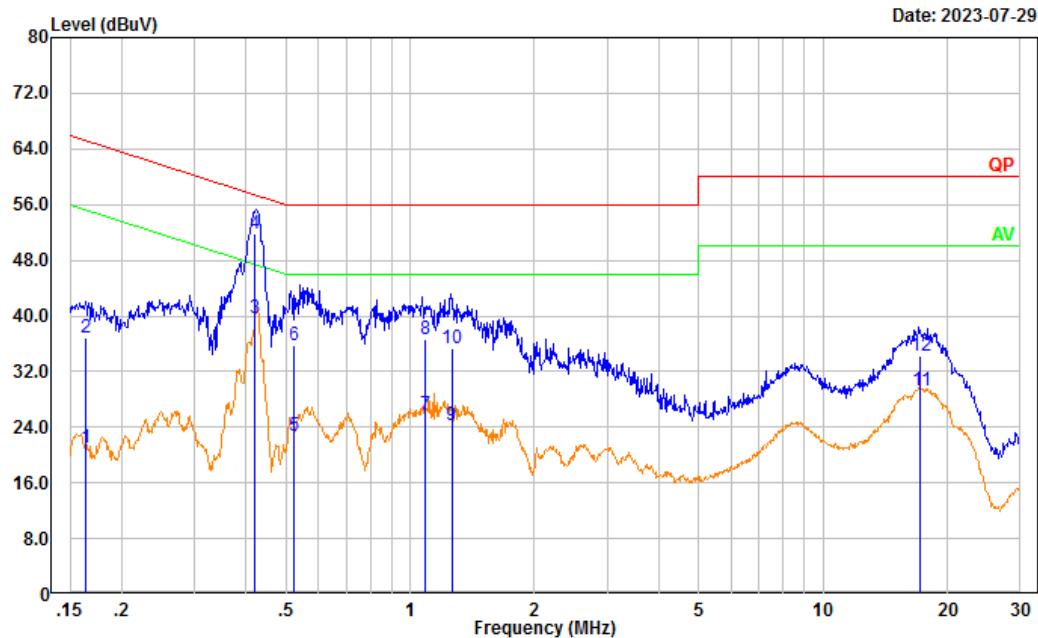
Temperature: (°C)	25.4	Relative Humidity: (%)	63	ATM Pressure: (kPa)	100.1
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#### Test Equipment List and Details:

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	2022/08/07	2023/08/06
Audix	Test Software	E3	190306 (V9)	N/A	N/A

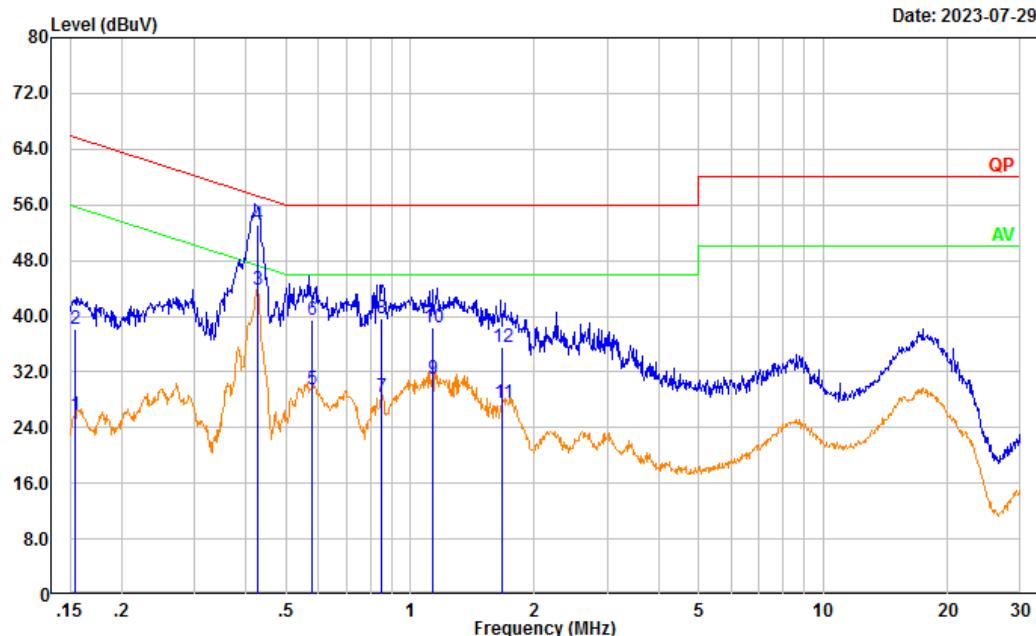
\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: Transmitting  
Port: Line  
Note:



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector
1	0.164	11.43	9.61	21.04	55.28	34.24	Average
2	0.164	27.21	9.61	36.82	65.28	28.46	QP
3	0.422	30.02	9.61	39.63	47.41	7.78	Average
4	0.422	42.20	9.61	51.81	57.41	5.60	QP
5	0.525	13.05	9.61	22.66	46.00	23.34	Average
6	0.525	26.12	9.61	35.73	56.00	20.27	QP
7	1.091	16.27	9.62	25.89	46.00	20.11	Average
8	1.091	27.13	9.62	36.75	56.00	19.25	QP
9	1.259	14.67	9.62	24.29	46.00	21.71	Average
10	1.259	25.72	9.62	35.34	56.00	20.66	QP
11	17.206	19.50	9.73	29.23	50.00	20.77	Average
12	17.206	24.44	9.73	34.17	60.00	25.83	QP

Test Mode: Transmitting  
Port: neutral  
Note:



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector
1	0.155	16.22	9.61	25.83	55.73	29.90	Average
2	0.155	28.53	9.61	38.14	65.73	27.59	QP
3	0.427	34.25	9.61	43.86	47.31	3.45	Average
4	0.427	43.47	9.61	53.08	57.31	4.23	QP
5	0.578	19.94	9.62	29.56	46.00	16.44	Average
6	0.578	29.87	9.62	39.49	56.00	16.51	QP
7	0.851	18.87	9.62	28.49	46.00	17.51	Average
8	0.851	30.06	9.62	39.68	56.00	16.32	QP
9	1.132	21.44	9.62	31.06	46.00	14.94	Average
10	1.132	28.78	9.62	38.40	56.00	17.60	QP
11	1.674	17.86	9.63	27.49	46.00	18.51	Average
12	1.674	25.83	9.63	35.46	56.00	20.54	QP

## 4.2 Radiation Spurious Emissions

Serial Number:	284X-1	Test Date:	2023/8/2~2023/8/6
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	Tao Zhu, Carl Xue	Test Result:	Pass

<b>Environmental Conditions:</b>					
Temperature: (°C)	25~27.1	Relative Humidity: (%)	60~62	ATM Pressure: (kPa)	99.8~100

### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
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
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/8/7	2023/8/6
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/8/7	2023/8/6
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/9/16	2023/9/15
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/8/7	2023/8/6
E-Microwave	Band Rejection Filter	5150-5850MHz	OE01902423	2022/8/7	2023/8/6
Mini Circuits	High Pass Filter	VHF-6010+	31119	2022/8/7	2023/8/6
PASTERNACK	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).

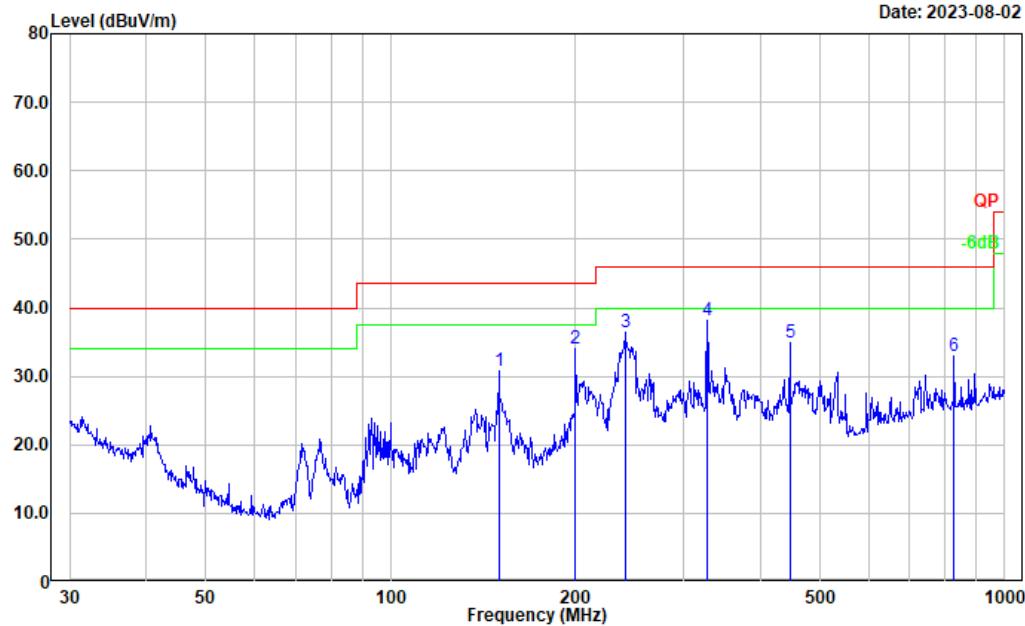
### Test Data:

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

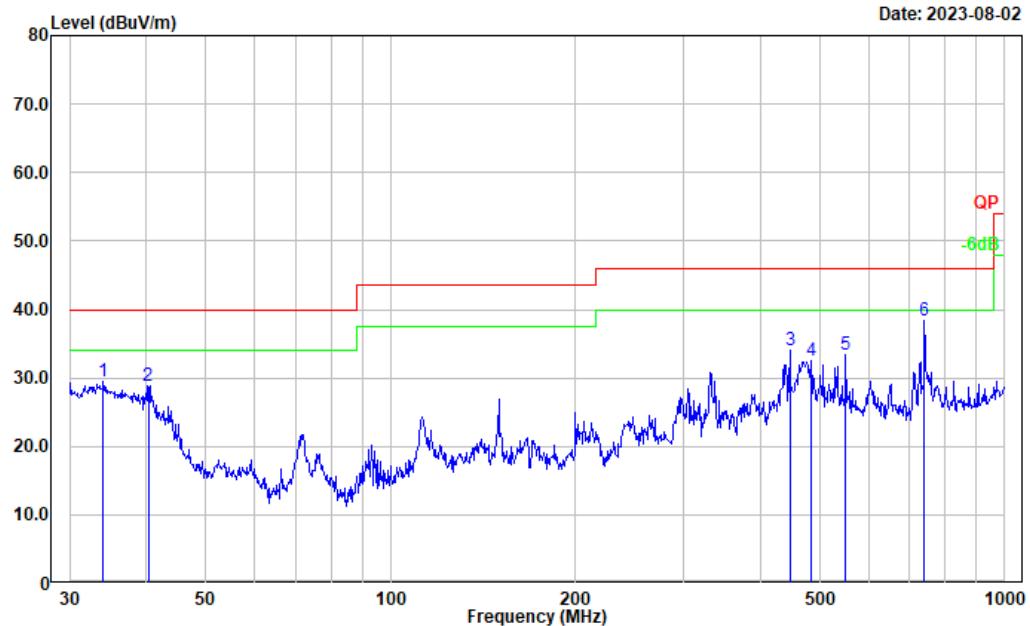
## 1) 30MHz-1GHz(802.11a 5700MHz was the worst)

Test Mode: Transmitting  
Polarization: horizontal  
Note:



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	150.011	42.89	-12.00	30.89	43.50	12.61	Peak
2	199.986	46.21	-12.21	34.00	43.50	9.50	Peak
3	240.830	49.36	-13.01	36.35	46.00	9.65	Peak
4	327.887	48.48	-10.30	38.18	46.00	7.82	Peak
5	446.414	42.08	-7.08	35.00	46.00	11.00	Peak
6	827.493	34.52	-1.62	32.90	46.00	13.10	Peak

Test Mode: Transmitting  
Polarization: vertical  
Note:



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
<hr/>							
1	34.037	36.21	-6.70	29.51	40.00	10.49	Peak
2	40.276	40.27	-11.48	28.79	40.00	11.21	Peak
3	446.414	41.15	-7.08	34.07	46.00	11.93	Peak
4	483.910	38.84	-6.30	32.54	46.00	13.46	Peak
5	550.948	39.06	-5.74	33.32	46.00	12.68	Peak
6	739.661	41.42	-2.94	38.48	46.00	7.52	Peak

**2) 1GHz-40GHz:****5150-5250MHz****802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5180MHz							
5180.000	70.45	PK	H	38.68	103.11	N/A	N/A
5180.000	59.74	AV	H	38.68	92.40	N/A	N/A
5180.000	76.01	PK	V	38.68	108.67	N/A	N/A
5180.000	65.45	AV	V	38.68	98.11	N/A	N/A
5150.000	36.83	PK	V	38.64	69.45	74.00	4.55
5150.000	19.47	AV	V	38.64	52.09	54.00	1.91
10360.000	33.40	PK	V	19.18	46.56	68.20	21.64
15540.000	35.30	PK	V	22.44	51.72	74.00	22.28
15540.000	22.47	AV	V	22.44	38.89	54.00	15.11
Middle Channel: 5220 MHz							
5220.000	71.50	PK	H	38.78	104.26	N/A	N/A
5220.000	60.44	AV	H	38.78	93.20	N/A	N/A
5220.000	76.33	PK	V	38.78	109.09	N/A	N/A
5220.000	65.82	AV	V	38.78	98.58	N/A	N/A
10440.000	34.39	PK	V	19.01	47.38	68.20	20.82
15660.000	38.23	PK	V	22.33	54.54	74.00	19.46
15660.000	25.66	AV	V	22.33	41.97	54.00	12.03
High Channel: 5240 MHz							
5240.000	72.33	PK	H	38.85	105.16	N/A	N/A
5240.000	61.52	AV	H	38.85	94.35	N/A	N/A
5240.000	78.16	PK	V	38.85	110.99	N/A	N/A
5240.000	67.10	AV	V	38.85	99.93	N/A	N/A
5350.000	29.10	PK	V	39.03	62.11	74.00	11.89
5350.000	16.45	AV	V	39.03	49.46	54.00	4.54
10480.000	33.12	PK	V	18.86	45.96	68.20	22.24
15720.000	37.85	PK	V	22.28	54.11	74.00	19.89
15720.000	24.66	AV	V	22.28	40.92	54.00	13.08

**802.11n ht20:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5180MHz							
5180.000	69.45	PK	H	38.68	102.11	N/A	N/A
5180.000	58.64	AV	H	38.68	91.30	N/A	N/A
5180.000	74.49	PK	V	38.68	107.15	N/A	N/A
5180.000	63.52	AV	V	38.68	96.18	N/A	N/A
5150.000	35.68	PK	V	38.64	68.30	74.00	5.70
5150.000	18.93	AV	V	38.64	51.55	54.00	<b>2.45</b>
10360.000	34.58	PK	V	19.18	47.74	68.20	20.46
15540.000	36.30	PK	V	22.44	52.72	74.00	21.28
15540.000	23.47	AV	V	22.44	39.89	54.00	14.11
Middle Channel: 5220 MHz							
5220.000	67.85	PK	H	38.78	100.61	N/A	N/A
5220.000	56.39	AV	H	38.78	89.15	N/A	N/A
5220.000	73.21	PK	V	38.78	105.97	N/A	N/A
5220.000	62.53	AV	V	38.78	95.29	N/A	N/A
10440.000	33.65	PK	V	19.01	46.64	68.20	21.56
15660.000	37.69	PK	V	22.33	54.00	74.00	20.00
15660.000	24.63	AV	V	22.33	40.94	54.00	13.06
High Channel: 5240 MHz							
5240.000	68.64	PK	H	38.85	101.47	N/A	N/A
5240.000	57.33	AV	H	38.85	90.16	N/A	N/A
5240.000	73.73	PK	V	38.85	106.56	N/A	N/A
5240.000	63.17	AV	V	38.85	96.00	N/A	N/A
5350.000	29.38	PK	V	39.03	62.39	74.00	11.61
5350.000	16.43	AV	V	39.03	49.44	54.00	4.56
10480.000	33.52	PK	V	18.86	46.36	68.20	21.84
15720.000	38.85	PK	V	22.28	55.11	74.00	18.89
15720.000	25.66	AV	V	22.28	41.92	54.00	12.08

**802.11n ht40:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5190 MHz							
5190.000	64.63	PK	H	38.69	97.30	N/A	N/A
5190.000	52.67	AV	H	38.69	85.34	N/A	N/A
5190.000	70.83	PK	V	38.69	103.50	N/A	N/A
5190.000	58.92	AV	V	38.69	91.59	N/A	N/A
5150.000	37.46	PK	V	38.64	70.08	74.00	3.92
5150.000	19.31	AV	V	38.64	51.93	54.00	2.07
10380.000	33.74	PK	V	19.17	46.89	68.20	21.31
15570.000	37.89	PK	V	22.43	54.30	74.00	19.70
15570.000	24.57	AV	V	22.43	40.98	54.00	13.02
High Channel: 5230 MHz							
5230.000	69.75	PK	H	38.81	102.54	N/A	N/A
5230.000	57.76	AV	H	38.81	90.55	N/A	N/A
5230.000	75.56	PK	V	38.81	108.35	N/A	N/A
5230.000	63.37	AV	V	38.81	96.16	N/A	N/A
5350.000	30.05	PK	V	39.03	63.06	74.00	10.94
5350.000	16.48	AV	V	39.03	49.49	54.00	4.51
10460.000	33.51	PK	V	18.94	46.43	68.20	21.77
15690.000	37.86	PK	V	22.29	54.13	74.00	19.87
15690.000	24.60	AV	V	22.29	40.87	54.00	13.13

**802.11ac vht80:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Middle Channel: 5210 MHz							
5210.000	63.53	PK	H	38.74	96.25	N/A	N/A
5210.000	50.86	AV	H	38.74	83.58	N/A	N/A
5210.000	68.29	PK	V	38.74	101.01	N/A	N/A
5210.000	55.32	AV	V	38.74	88.04	N/A	N/A
5150.000	34.35	PK	V	38.64	66.97	74.00	7.03
5150.000	19.05	AV	V	38.64	51.67	54.00	2.33
5350.000	30.33	PK	V	39.03	63.34	74.00	10.66
5350.000	16.77	AV	V	39.03	49.78	54.00	4.22
10420.000	34.66	PK	V	19.09	47.73	68.20	20.47
15630.000	38.36	PK	V	22.37	54.71	74.00	19.29
15630.000	25.47	AV	V	22.37	41.82	54.00	12.18

*Note:**Result = Reading + Factor- Distance extrapolation Factor**Distance extrapolation Factor = 20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB*

**5250-5350MHz:****802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5260MHz							
5260.000	70.36	PK	H	38.90	103.24	N/A	N/A
5260.000	59.88	AV	H	38.90	92.76	N/A	N/A
5260.000	75.84	PK	V	38.90	108.72	N/A	N/A
5260.000	64.80	AV	V	38.90	97.68	N/A	N/A
5150.000	29.35	PK	V	38.64	61.97	74.00	12.03
5150.000	16.63	AV	V	38.64	49.25	54.00	4.75
10520.000	35.28	PK	V	18.93	48.19	68.20	20.01
15780.000	36.47	PK	V	22.26	52.71	74.00	21.29
15780.000	23.55	AV	V	22.26	39.79	54.00	14.21
Middle Channel: 5300MHz							
5300.000	70.56	PK	H	38.93	103.47	N/A	N/A
5300.000	59.98	AV	H	38.93	92.89	N/A	N/A
5300.000	75.36	PK	V	38.93	108.27	N/A	N/A
5300.000	66.48	AV	V	38.93	99.39	N/A	N/A
10600.000	34.69	PK	V	19.48	48.15	74.00	25.85
10600.000	21.12	AV	V	19.48	34.58	54.00	19.42
15900.000	36.80	PK	V	22.45	53.23	74.00	20.77
15900.000	23.43	AV	V	22.45	39.86	54.00	14.14
High Channel: 5320MHz							
5320.000	71.33	PK	H	38.97	104.28	N/A	N/A
5320.000	60.58	AV	H	38.97	93.53	N/A	N/A
5320.000	77.05	PK	V	38.97	110.00	N/A	N/A
5320.000	66.09	AV	V	38.97	99.04	N/A	N/A
5350.000	35.16	PK	V	39.03	68.17	74.00	5.83
5350.000	19.02	AV	V	39.03	52.03	54.00	1.97
10640.000	36.20	PK	V	19.50	49.68	74.00	24.32
10640.000	23.41	AV	V	19.50	36.89	54.00	17.11
15960.000	37.28	PK	V	22.22	53.48	74.00	20.52
15960.000	24.55	AV	V	22.22	40.75	54.00	13.25

**802.11n ht20:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5260MHz							
5260.000	64.74	PK	H	38.90	97.62	N/A	N/A
5260.000	53.17	AV	H	38.90	86.05	N/A	N/A
5260.000	73.32	PK	V	38.90	106.20	N/A	N/A
5260.000	62.58	AV	V	38.90	95.46	N/A	N/A
5150.000	30.36	PK	V	38.64	62.98	74.00	11.02
5150.000	17.88	AV	V	38.64	50.50	54.00	3.50
10520.000	34.68	PK	V	18.93	47.59	68.20	20.61
15780.000	36.58	PK	V	22.26	52.82	74.00	21.18
15780.000	23.74	AV	V	22.26	39.98	54.00	14.02
Middle Channel: 5300MHz							
5300.000	62.87	PK	H	38.93	95.78	N/A	N/A
5300.000	52.10	AV	H	38.93	85.01	N/A	N/A
5300.000	71.61	PK	V	38.93	104.52	N/A	N/A
5300.000	60.33	AV	V	38.93	93.24	N/A	N/A
10600.000	33.69	PK	V	19.48	47.15	74.00	26.85
10600.000	20.66	AV	V	19.48	34.12	54.00	19.88
15900.000	37.21	PK	V	22.45	53.64	74.00	20.36
15900.000	24.50	AV	V	22.45	40.93	54.00	13.07
High Channel: 5320MHz							
5320.000	65.40	PK	H	38.97	98.35	N/A	N/A
5320.000	54.69	AV	H	38.97	87.64	N/A	N/A
5320.000	73.16	PK	V	38.97	106.11	N/A	N/A
5320.000	62.25	AV	V	38.97	95.20	N/A	N/A
5350.000	36.34	PK	V	39.03	69.35	74.00	4.65
5350.000	18.17	AV	V	39.03	51.18	54.00	2.82
10640.000	33.89	PK	V	19.50	47.37	74.00	26.63
10640.000	20.60	AV	V	19.50	34.08	54.00	19.92
15960.000	36.19	PK	V	22.22	52.39	74.00	21.61
15960.000	23.32	AV	V	22.22	39.52	54.00	14.48

**802.11n ht40:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5270MHz							
5270.000	66.43	PK	H	38.91	99.32	N/A	N/A
5270.000	54.78	AV	H	38.91	87.67	N/A	N/A
5270.000	74.87	PK	V	38.91	107.76	N/A	N/A
5270.000	62.46	AV	V	38.91	95.35	N/A	N/A
5150.000	29.68	PK	V	38.64	62.30	74.00	11.70
5150.000	16.67	AV	V	38.64	49.29	54.00	4.71
10540.000	34.74	PK	V	19.07	47.79	68.20	20.41
15810.000	36.69	PK	V	22.28	52.95	74.00	21.05
15810.000	23.57	AV	V	22.28	39.83	54.00	14.17
High Channel: 5310MHz							
5310.000	60.83	PK	H	38.95	93.76	N/A	N/A
5310.000	49.36	AV	H	38.95	82.29	N/A	N/A
5310.000	68.86	PK	V	38.95	101.79	N/A	N/A
5310.000	56.93	AV	V	38.95	89.86	N/A	N/A
5350.000	33.99	PK	V	39.03	67.00	74.00	7.00
5350.000	17.25	AV	V	39.03	50.26	54.00	3.74
10620.000	34.88	PK	V	19.49	48.35	74.00	25.65
10620.000	21.63	AV	V	19.49	35.10	54.00	18.90
15930.000	36.30	PK	V	22.33	52.61	74.00	21.39
15930.000	23.51	AV	V	22.33	39.82	54.00	14.18

**802.11ac vht80:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Middle Channel: 5290MHz							
5290.000	60.75	PK	H	38.92	93.65	N/A	N/A
5290.000	46.36	AV	H	38.92	79.26	N/A	N/A
5290.000	67.99	PK	V	38.92	100.89	N/A	N/A
5290.000	54.28	AV	V	38.92	87.18	N/A	N/A
5150.000	29.68	PK	V	38.64	62.30	74.00	11.70
5150.000	16.76	AV	V	38.64	49.38	54.00	4.62
5350.000	32.94	PK	V	39.03	65.95	74.00	8.05
5350.000	18.00	AV	V	39.03	51.01	54.00	2.99
10580.000	35.12	PK	V	19.34	48.44	68.20	19.76
15870.000	36.25	PK	V	22.39	52.62	74.00	21.38
15870.000	23.47	AV	V	22.39	39.84	54.00	14.16

**5470-5725MHz****802.11a:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5500MHz							
5500.000	68.88	PK	H	39.32	102.18	N/A	N/A
5500.000	58.20	AV	H	39.32	91.50	N/A	N/A
5500.000	76.35	PK	V	39.32	109.65	N/A	N/A
5500.000	65.83	AV	V	39.32	99.13	N/A	N/A
5470.000	30.55	PK	V	39.27	63.80	68.20	4.40
11000.000	34.25	PK	V	19.83	48.06	74.00	25.94
11000.000	21.18	AV	V	19.83	34.99	54.00	19.01
16500.000	34.33	PK	V	22.73	51.04	68.20	17.16
Middle Channel: 5580MHz							
5580.000	68.31	PK	H	39.43	101.72	N/A	N/A
5580.000	58.41	AV	H	39.43	91.82	N/A	N/A
5580.000	75.69	PK	V	39.43	109.10	N/A	N/A
5580.000	65.87	AV	V	39.43	99.28	N/A	N/A
11160.000	33.86	PK	V	19.97	47.81	74.00	26.19
11160.000	20.49	AV	V	19.97	34.44	54.00	19.56
16740.000	35.20	PK	V	23.68	52.86	68.20	15.34
High Channel: 5700MHz							
5700.000	63.58	PK	H	39.51	97.07	N/A	N/A
5700.000	53.89	AV	H	39.51	87.38	N/A	N/A
5700.000	73.90	PK	V	39.51	107.39	N/A	N/A
5700.000	62.94	AV	V	39.51	96.43	N/A	N/A
5725.000	30.80	PK	V	39.48	64.26	68.20	3.94
11400.000	34.83	PK	V	20.93	49.74	74.00	24.26
11400.000	21.17	AV	V	20.93	36.08	54.00	32.12
17100.000	35.18	PK	V	26.19	55.35	68.20	15.36

**802.11n ht20:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5500MHz							
5500.000	64.58	PK	H	39.32	97.88	N/A	N/A
5500.000	54.33	AV	H	39.32	87.63	N/A	N/A
5500.000	73.94	PK	V	39.32	107.24	N/A	N/A
5500.000	64.40	AV	V	39.32	97.70	N/A	N/A
5470.000	30.16	PK	V	39.27	63.41	68.20	4.79
11000.000	34.25	PK	V	19.83	48.06	74.00	25.94
11000.000	21.36	AV	V	19.83	35.17	54.00	18.83
16500.000	35.68	PK	V	22.73	52.39	68.20	15.81
Middle Channel: 5580MHz							
5580.000	63.78	PK	H	39.43	97.19	N/A	N/A
5580.000	54.39	AV	H	39.43	87.80	N/A	N/A
5580.000	73.58	PK	V	39.43	106.99	N/A	N/A
5580.000	63.54	AV	V	39.43	96.95	N/A	N/A
11160.000	33.47	PK	V	19.97	47.42	74.00	26.58
11160.000	20.58	AV	V	19.97	34.53	54.00	19.47
16740.000	35.41	PK	V	23.68	53.07	68.20	15.13
High Channel: 5700MHz							
5700.000	61.44	PK	H	39.51	94.93	N/A	N/A
5700.000	51.39	AV	H	39.51	84.88	N/A	N/A
5700.000	71.37	PK	V	39.51	104.86	N/A	N/A
5700.000	60.69	AV	V	39.51	94.18	N/A	N/A
5725.000	33.21	PK	V	39.48	66.67	68.20	1.53
11400.000	33.82	PK	V	20.93	48.73	74.00	25.27
11400.000	20.46	AV	V	20.93	35.37	54.00	18.63
17100.000	35.69	PK	V	26.19	55.86	68.20	12.34

**802.11n ht40:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5510MHz							
5510.000	60.19	PK	H	39.35	93.52	N/A	N/A
5510.000	48.67	AV	H	39.35	82.00	N/A	N/A
5510.000	67.72	PK	V	39.35	101.05	N/A	N/A
5510.000	55.58	AV	V	39.35	88.91	N/A	N/A
5470.000	31.32	PK	V	39.27	64.57	68.20	3.63
11020.000	34.88	PK	V	19.85	48.71	74.00	25.29
11020.000	21.58	AV	V	19.85	35.41	54.00	18.59
16530.000	36.41	PK	V	23.02	53.41	68.20	14.79
Middle Channel: 5550MHz							
5550.000	66.72	PK	H	39.46	100.16	N/A	N/A
5550.000	55.28	AV	H	39.46	88.72	N/A	N/A
5550.000	72.35	PK	V	39.46	105.79	N/A	N/A
5550.000	61.41	AV	V	39.46	94.85	N/A	N/A
11100.000	32.78	PK	V	19.95	46.71	74.00	27.29
11100.000	19.68	AV	V	19.95	33.61	54.00	20.39
16650.000	36.21	PK	V	23.65	53.84	68.20	14.36
High Channel: 5670MHz							
5670.000	66.39	PK	H	39.50	99.87	N/A	N/A
5670.000	55.78	AV	H	39.50	89.26	N/A	N/A
5670.000	72.68	PK	V	39.50	106.16	N/A	N/A
5670.000	60.36	AV	V	39.50	93.84	N/A	N/A
5725.000	30.23	PK	V	39.48	63.69	68.20	4.51
11340.000	34.59	PK	V	20.77	49.34	74.00	24.66
11340.000	21.35	AV	V	20.77	36.10	54.00	17.90
17010.000	35.74	PK	V	25.56	55.28	68.20	12.92

**802.11ac80:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5530MHz							
5530.000	59.19	PK	H	39.40	92.57	N/A	N/A
5530.000	46.11	AV	H	39.40	79.49	N/A	N/A
5530.000	67.29	PK	V	39.40	100.67	N/A	N/A
5530.000	53.43	AV	V	39.40	86.81	N/A	N/A
5470.000	32.43	PK	V	39.27	65.68	68.20	2.52
11060.000	33.45	PK	V	19.90	47.33	74.00	26.67
11060.000	20.58	AV	V	19.90	34.46	54.00	19.54
16590.000	34.89	PK	V	23.59	52.46	68.20	15.74
High Channel: 5610MHz							
5610.000	61.33	PK	H	39.43	94.74	N/A	N/A
5610.000	48.67	AV	H	39.43	82.08	N/A	N/A
5610.000	69.81	PK	V	39.43	103.22	N/A	N/A
5610.000	55.99	AV	V	39.43	89.40	N/A	N/A
5725.000	30.12	PK	V	39.48	63.58	68.20	4.62
11220.000	33.62	PK	V	20.13	47.73	74.00	26.27
11220.000	20.34	AV	V	20.13	34.45	54.00	19.55
16830.000	35.48	PK	V	24.13	53.59	68.20	14.61

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

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	Detector					
Low Channel: 5745MHz							
5745.000	63.54	PK	H	39.46	96.98	N/A	N/A
5745.000	52.47	AV	H	39.46	85.91	N/A	N/A
5745.000	73.63	PK	V	39.46	107.07	N/A	N/A
5745.000	62.86	AV	V	39.46	96.30	N/A	N/A
5725.000	46.81	PK	V	39.48	80.27	122.20	41.93
5720.000	35.81	PK	V	39.49	69.28	110.80	41.52
5700.000	30.58	PK	V	39.51	64.07	105.20	41.13
5650.000	29.92	PK	V	39.49	63.39	68.20	4.81
11490.000	33.65	PK	V	20.67	48.30	74.00	25.70
11490.000	20.47	AV	V	20.67	35.12	54.00	18.88
17235.000	33.85	PK	V	26.76	54.59	68.20	13.61
Middle Channel: 5785 MHz							
5785.000	62.88	PK	H	39.44	96.30	N/A	N/A
5785.000	52.69	AV	H	39.44	86.11	N/A	N/A
5785.000	73.41	PK	V	39.44	106.83	N/A	N/A
5785.000	62.55	AV	V	39.44	95.97	N/A	N/A
11570.000	34.21	PK	V	20.83	49.02	74.00	24.98
11570.000	21.24	AV	V	20.83	36.05	54.00	17.95
17355.000	34.45	PK	V	27.74	56.17	68.20	12.03
High Channel: 5825 MHz							
5825.000	63.27	PK	H	39.46	96.71	N/A	N/A
5825.000	52.40	AV	H	39.46	85.84	N/A	N/A
5825.000	73.33	PK	V	39.46	106.77	N/A	N/A
5825.000	62.39	AV	V	39.46	95.83	N/A	N/A
5850.000	36.48	PK	V	39.49	69.95	122.20	52.25
5855.000	33.89	PK	V	39.51	67.38	110.80	43.42
5875.000	30.90	PK	V	39.60	64.48	105.20	40.72
5925.000	30.86	PK	V	39.68	64.52	68.20	3.68
11650.000	33.58	PK	V	21.07	48.63	74.00	25.37
11650.000	20.65	AV	V	21.07	35.70	54.00	18.30
17475.000	33.45	PK	V	28.61	56.04	68.20	12.16

**802.11n ht20:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5745MHz							
5745.000	62.36	PK	H	39.46	95.80	N/A	N/A
5745.000	52.47	AV	H	39.46	85.91	N/A	N/A
5745.000	72.78	PK	V	39.46	106.22	N/A	N/A
5745.000	62.32	AV	V	39.46	95.76	N/A	N/A
5725.000	47.98	PK	V	39.48	81.44	122.20	40.76
5720.000	35.47	PK	V	39.49	68.94	110.80	41.86
5700.000	31.35	PK	V	39.51	64.84	105.20	40.36
5650.000	29.21	PK	V	39.49	62.68	68.20	5.52
11490.000	34.66	PK	V	20.67	49.31	74.00	24.69
11490.000	21.25	AV	V	20.67	35.90	54.00	18.10
17235.000	34.08	PK	V	26.76	54.82	68.20	13.38
Middle Channel: 5785 MHz							
5785.000	63.21	PK	H	39.44	96.63	N/A	N/A
5785.000	53.47	AV	H	39.44	86.89	N/A	N/A
5785.000	73.41	PK	V	39.44	106.83	N/A	N/A
5785.000	62.91	AV	V	39.44	96.33	N/A	N/A
11570.000	32.90	PK	V	20.83	47.71	74.00	26.29
11570.000	19.88	AV	V	20.83	34.69	54.00	19.31
17355.000	33.74	PK	V	27.74	55.46	68.20	12.74
High Channel: 5825 MHz							
5825.000	61.47	PK	H	39.46	94.91	N/A	N/A
5825.000	51.41	AV	H	39.46	84.85	N/A	N/A
5825.000	71.97	PK	V	39.46	105.41	N/A	N/A
5825.000	60.95	AV	V	39.46	94.39	N/A	N/A
5850.000	35.60	PK	V	39.49	69.07	122.20	53.13
5855.000	32.73	PK	V	39.51	66.22	110.80	44.58
5875.000	29.66	PK	V	39.60	63.24	105.20	41.96
5925.000	29.32	PK	V	39.68	62.98	68.20	5.22
11650.000	34.43	PK	V	21.07	49.48	74.00	24.52
11650.000	21.39	AV	V	21.07	36.44	54.00	17.56
17475.000	34.68	PK	V	28.61	57.27	68.20	10.93

**802.11n ht40:**

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Low Channel: 5755 MHz							
5755.000	62.96	PK	H	39.45	96.39	N/A	N/A
5755.000	50.68	AV	H	39.45	84.11	N/A	N/A
5755.000	71.67	PK	V	39.45	105.10	N/A	N/A
5755.000	59.64	AV	V	39.45	93.07	N/A	N/A
5725.000	46.70	PK	V	39.48	80.16	122.20	42.04
5720.000	46.25	PK	V	39.49	79.72	110.80	31.08
5700.000	31.53	PK	V	39.51	65.02	105.20	40.18
5650.000	29.46	PK	V	39.49	62.93	68.20	5.27
11510.000	34.12	PK	V	20.67	48.77	74.00	25.23
11510.000	21.17	AV	V	20.67	35.82	54.00	18.18
17265.000	33.82	PK	V	26.94	54.74	68.20	13.46
High Channel: 5795 MHz							
5795.000	62.41	PK	H	39.43	95.82	N/A	N/A
5795.000	50.37	AV	H	39.43	83.78	N/A	N/A
5795.000	70.36	PK	V	39.43	103.77	N/A	N/A
5795.000	58.61	AV	V	39.43	92.02	N/A	N/A
5850.000	31.94	PK	V	39.49	65.41	122.20	56.79
5855.000	30.97	PK	V	39.51	64.46	110.80	46.34
5875.000	31.16	PK	V	39.60	64.74	105.20	40.46
5925.000	31.18	PK	V	39.68	64.84	68.20	3.36
11590.000	33.61	PK	V	20.88	48.47	74.00	25.53
11590.000	20.32	AV	V	20.88	35.18	54.00	18.82
17385.000	33.26	PK	V	28.07	55.31	68.20	12.89

**802.11ac vht80:**

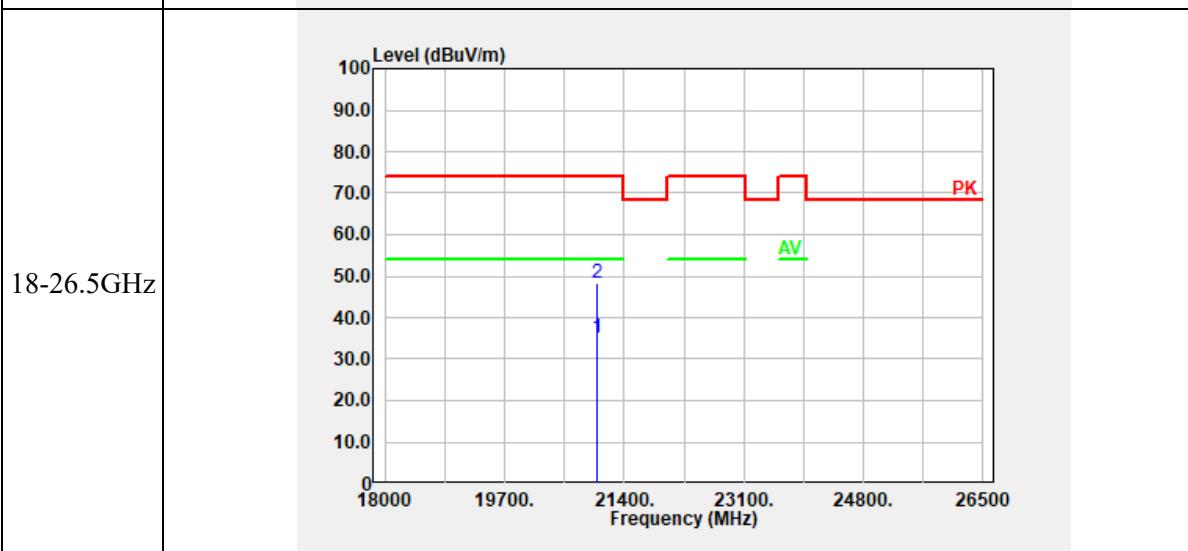
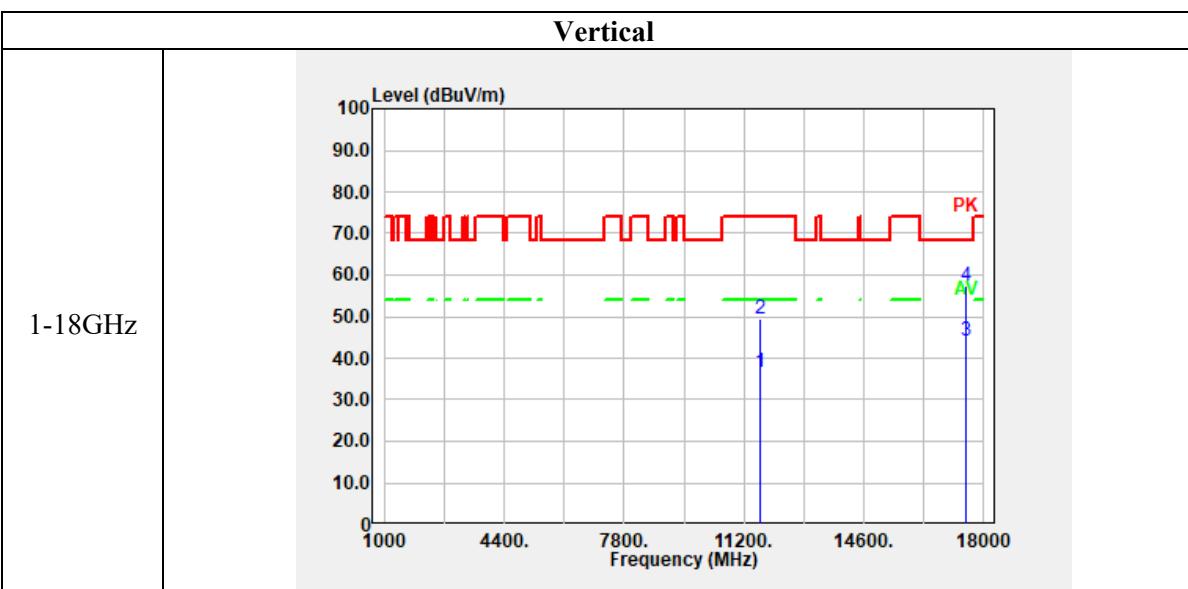
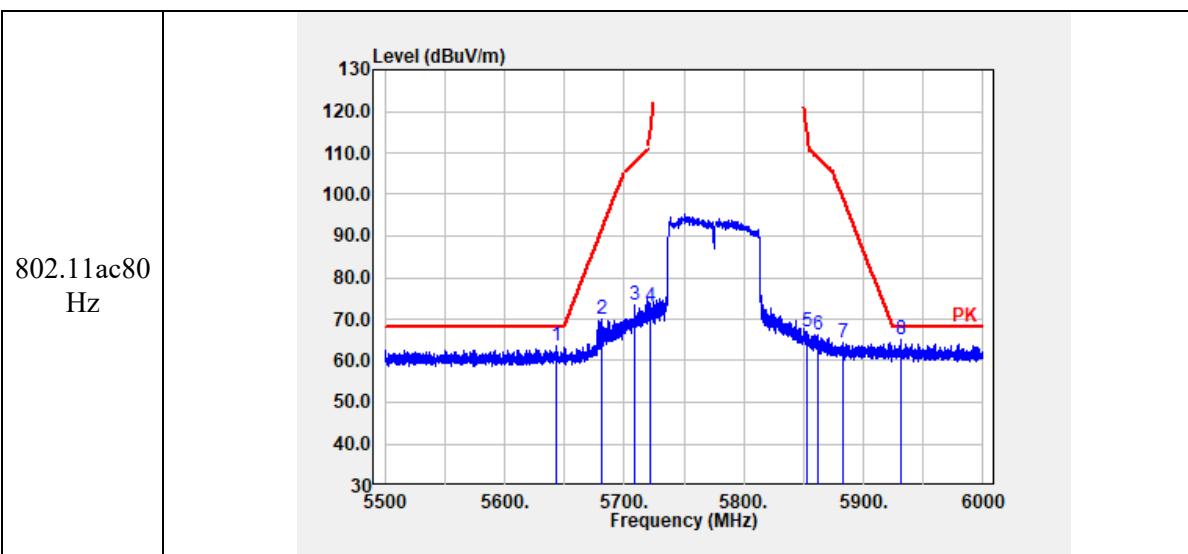
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
	Reading (dB $\mu$ V)	Detector					
Middle Channel: 5775 MHz							
5775.000	60.59	PK	H	39.44	94.01	N/A	N/A
5775.000	47.66	AV	H	39.44	81.08	N/A	N/A
5775.000	68.03	PK	V	39.44	101.45	N/A	N/A
5775.000	54.37	AV	V	39.44	87.79	N/A	N/A
5725.000	47.02	PK	V	39.48	80.48	122.20	41.72
5720.000	46.55	PK	V	39.49	80.02	110.80	30.78
5700.000	43.64	PK	V	39.51	77.13	105.20	28.07
5650.000	30.51	PK	V	39.49	63.98	68.20	4.22
5850.000	40.86	PK	V	39.49	74.33	122.20	47.87
5855.000	39.27	PK	V	39.51	72.76	110.80	38.04
5875.000	35.07	PK	V	39.60	68.65	105.20	36.55
5925.000	31.26	PK	V	39.68	64.92	68.20	3.28
11550.000	33.65	PK	V	20.78	48.41	74.00	25.59
11550.000	20.41	AV	V	20.78	35.17	54.00	18.83
17325.000	33.05	PK	V	27.41	54.44	68.20	13.76

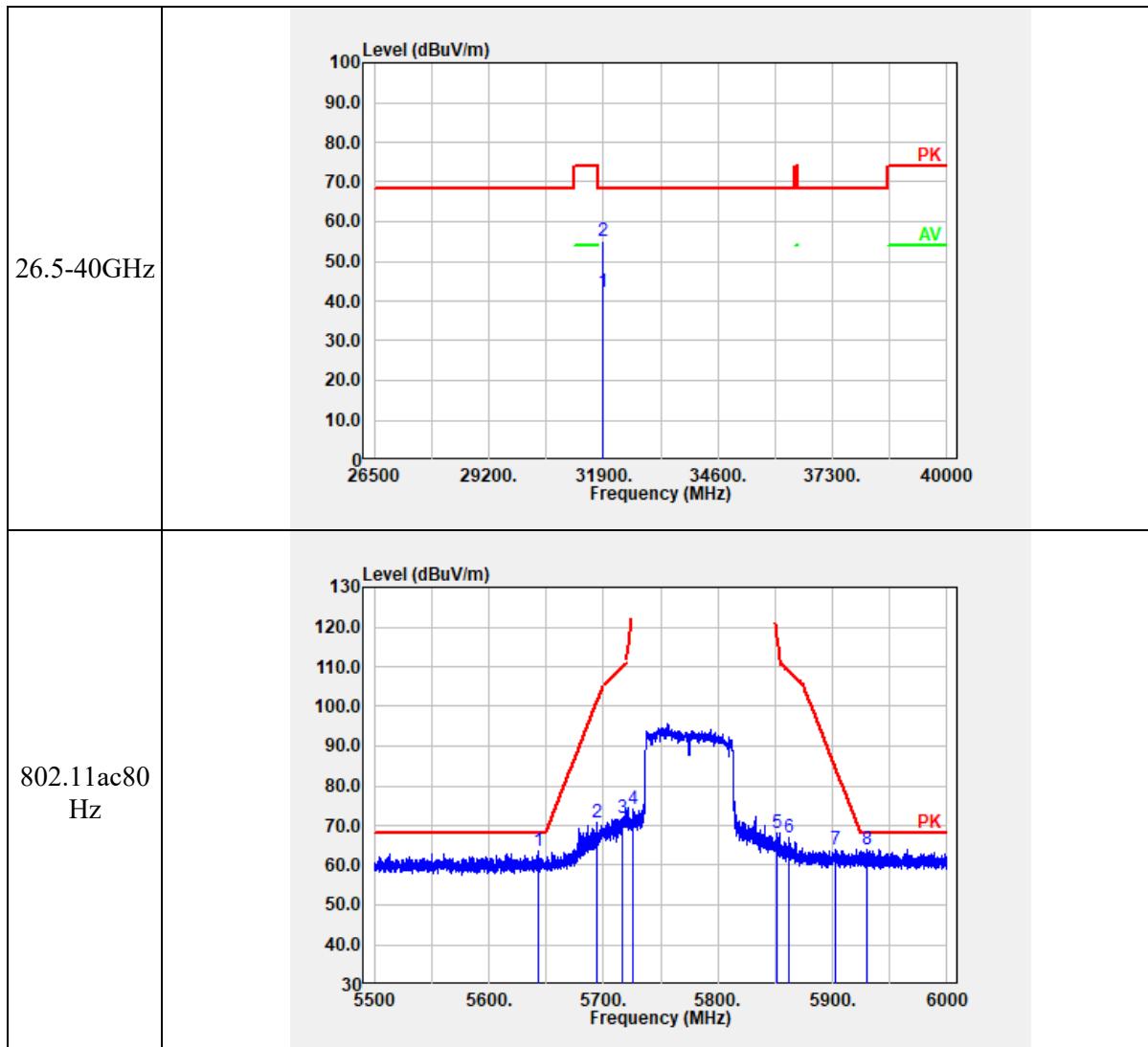
*Note:*

Result = Reading + Factor- Distance extrapolation Factor

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

**Test plots(802.11n ht20 5180 MHz was the worst)**





**4.3 Spot Check Maximum Conducted Output Power:**

Serial Number:	28CQ-2	Test Date:	2023/7/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Morpheus Shi	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.6	Relative Humidity: (%)	60	ATM Pressure: (kPa)	99.3
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2023/3/31	2024/3/30
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	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)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5180	14.05	24
	5220	<b>16.52</b>	24
	5240	16.37	24
802.11n ht20	5180	13.07	24
	5220	15.63	24
	5240	15.49	24
802.11n ht40	5190	12.05	24
	5230	16.12	24
802.11ac vht80	5210	13.44	24

5250-5350 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5260	16.39	24
	5300	<b>16.8</b>	24
	5320	16.75	24
802.11n ht20	5260	15.67	24
	5300	15.73	24
	5320	11.45	24
802.11n ht40	5270	16.16	24
	5310	10.89	24
802.11ac vht80	5290	12.45	24

5470-5725 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5500	16.59	24
	5580	16.30	24
	5700	<b>17.02</b>	24
	5720	16.71	24
802.11n ht20	5500	15.83	24
	5580	16.05	24
	5700	13.44	24
	5720	15.56	24
802.11n ht40	5510	11.35	24
	5550	16.05	24
	5670	16.23	24
	5710	16.02	24
802.11ac vht80	5530	11.75	24
	5610	16.04	24
	5690	16.13	24

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5745	<b>16.73</b>	30
	5785	16.56	30
	5825	15.86	30
802.11n ht20	5745	16.19	30
	5785	15.62	30
	5825	15.74	30
802.11n ht40	5755	16.24	30
	5795	16.1	30
802.11ac vht80	5775	16.03	30

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## 5. EUT PHOTOGRAPHS

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Please refer to the attachment CR230739799-EXP EUT EXTERNAL PHOTOGRAPHS and CR230739799-INP EUT INTERNAL PHOTOGRAPHS

## **6. TEST SETUP PHOTOGRAPHS**

Please refer to the attachment CR230739799-00F-TSP TEST SETUP PHOTOGRAPHS.

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