



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



TEST REPORT

Applicant: TECNO MOBILE LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25
SHAN MEI STREET FOTAN NT HONGKONG

FCC ID: 2ADYY-LI9
Product Name: Mobile Phone

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: CR231167220-00D

Date Of Issue: 2023/12/19

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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.

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	CR231167220-00D	Original Report	2023/12/19

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	Mobile Phone
Trade Name:	Tecno
EUT Model:	LI9
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):	13.65 dBm (5150-5250 MHz) 13.29 dBm (5725-5850 MHz)
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
Rated Input Voltage:	DC 3.91V from battery or DC5V or 5-10V or 11V or 4-20V from adapter
Serial Number:	CE&RE: 2DMI-2 RF: 2DMI-1
EUT Received Date:	2023/11/15
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 below frequencies were performed the test as below:			
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825

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 below frequencies were performed the test as below:			
38	5190	151	5755
46	5230	159	5795

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 below frequencies were performed the test as below:			
42	5210	155	5775

1.1.3 Antenna Information Detail▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)
Integral	50	5.15~5.25GHz	-0.7
		5.725~5.85GHz	-0.7

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
Adapter	TECNO	U700TSA	Input:100-240V~50/60Hz 2.0A Output:5.0V, 3.0A 15.0W or 5.0-10.0V, 7.0A MAX or 11.0V, 6.4A MAX or 4.0-20.0V, 3.5A 70.0W MAX

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:		Engineering mode		
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	Data rate	Power Level Setting
802.11a	Lowest	5180	6Mbps	18
	Middle	5200	6Mbps	18
	Highest	5240	6Mbps	18
802.11ac vht20	Lowest	5180	MCS0	19
	Middle	5200	MCS0	19
	Highest	5240	MCS0	19
802.11ac vht40	Lowest	5190	MCS0	17
	Highest	5230	MCS0	17
802.11ac vht80	Middle	5210	MCS0	15
5725-5850 MHz Band:				
Test Modes	Test Channels	Test Frequency	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	18
	Middle	5785	6Mbps	18
	Highest	5825	6Mbps	18
802.11ac vht20	Lowest	5745	MCS0	19
	Middle	5785	MCS0	19
	Highest	5825	MCS0	19
802.11ac vht40	Lowest	5755	MCS0	19
	Highest	5795	MCS0	19
802.11ac vht80	Middle	5775	MCS0	17
Note: The system support 802.11a/n ht20/n ht40/ac vht20/vht40/vht80, the 802.11n ht20 and ht40 were reduced since the identical parameters with 802.11ac vht20/vht40. 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. According to the manufacturer, for 5G Wi-Fi, the EUT has two antennas, which will be switched through SW circuit according to environmental conditions during actual operation. Only one antenna is working at any moment in time.				

1.2.2 Support Equipment List and Details

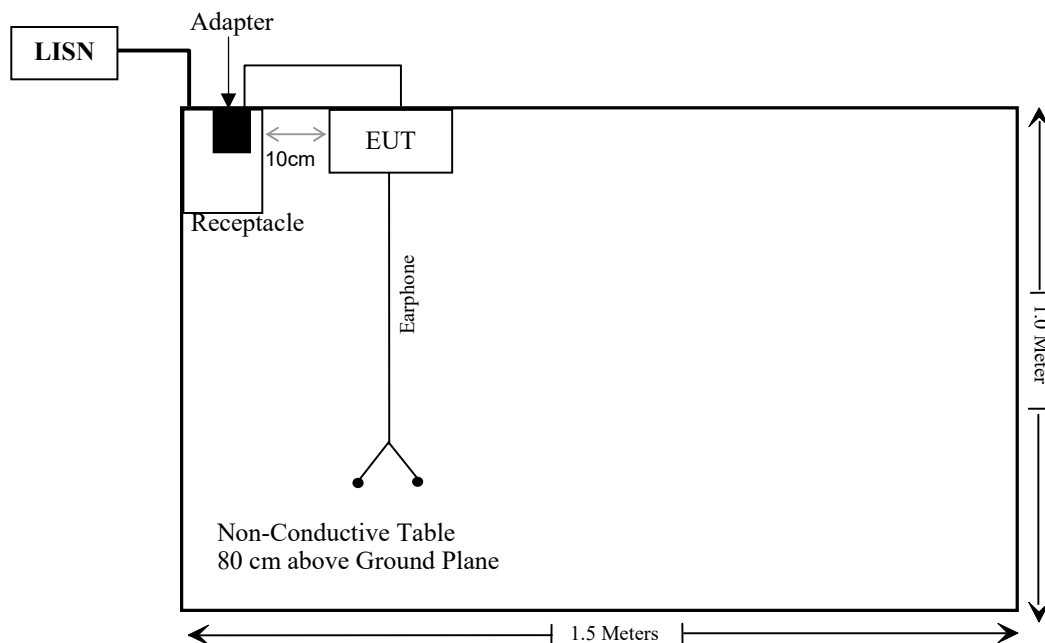
Manufacturer	Description	Model	Serial Number
Unknown	Earphone	Unknown	Unknown

1.2.3 Support Cable List and Details

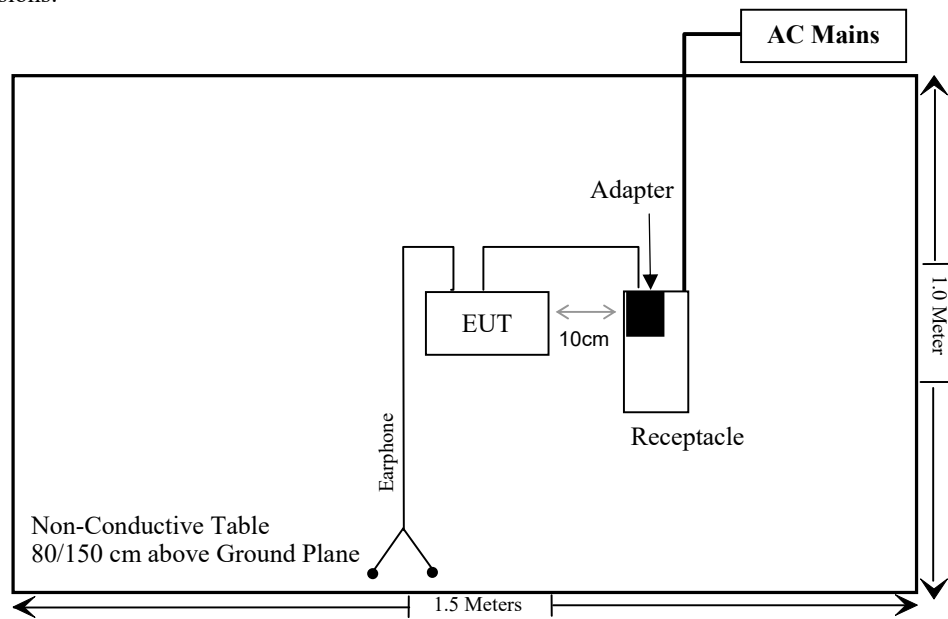
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.0	EUT	adapter
Earphone Cable	No	No	1.2	Earphone	EUT

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	9kHz~30MHz: 4.12dB,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℃
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
§15.207(a)	AC line conducted emissions	Compliant
FCC§15.205& §15.209 &§15.407(b)	Radiated Spurious Emissions	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant
FCC§15.407(a)	Maximum Conducted Output Power	Compliant
FCC§15.407 (a)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

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:

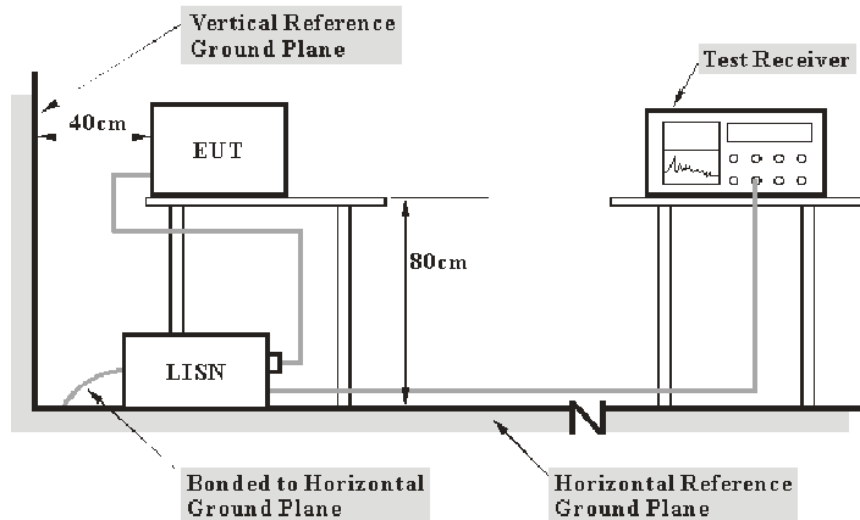
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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

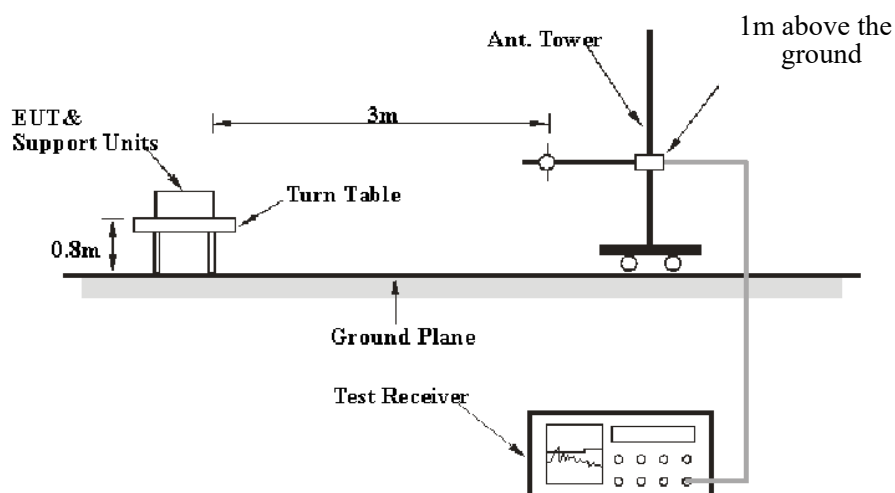
FCC §15.407 (b);

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:

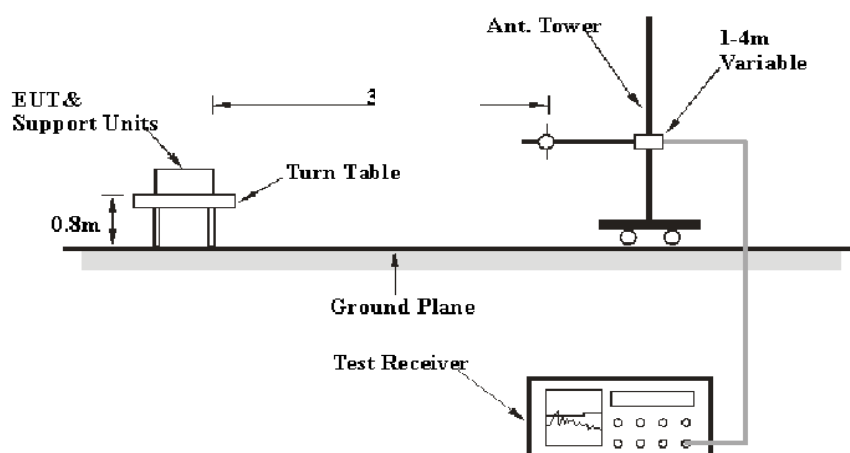
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.
 - (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.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

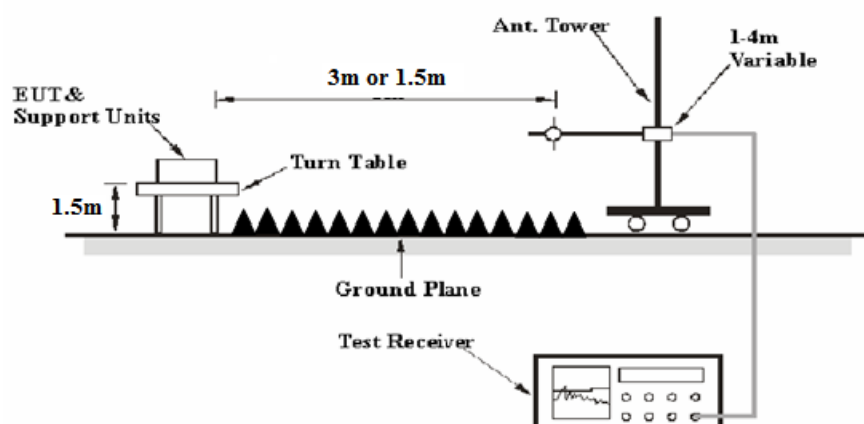
9 kHz-30MHz:



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.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

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

9 kHz -1000 MHz:

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

1GHz- 25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>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 9 kHz-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.

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

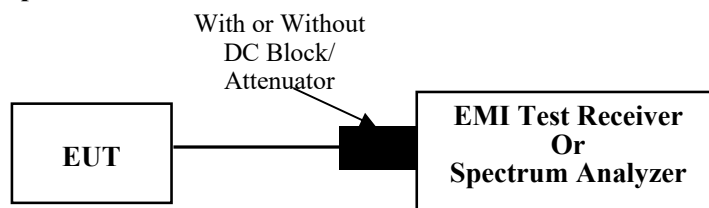
FCC §15.407 (a),(h)

(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

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max hold
- 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

- Set RBW = 100 kHz.
 - Set the video bandwidth (VBW) ≥ 3 RBW.
 - Detector = Peak.
 - Trace mode = max hold.
 - Sweep = auto couple.
 - Allow the trace to stabilize.
 - 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)(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.

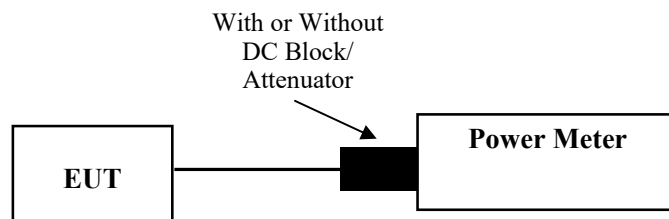
FCC §15.407(a) (2)

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 12.3.3.2

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)(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.

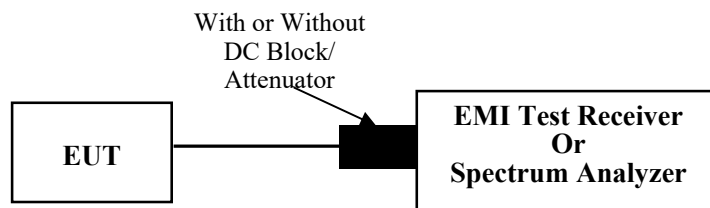
FCC §15.407(a) (2)

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 should be applied.

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

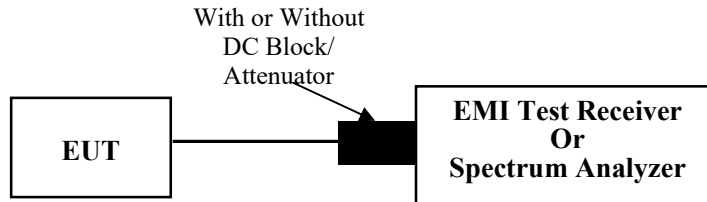
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

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 $T \leq 16.7 \mu s$.)

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:	2DMI-2	Test Date:	2023/11/23
Test Site:	CE	Test Mode:	Transmitting (maximum output power mode, 802.11ac vht20, 5180MHz)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.2	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101.1
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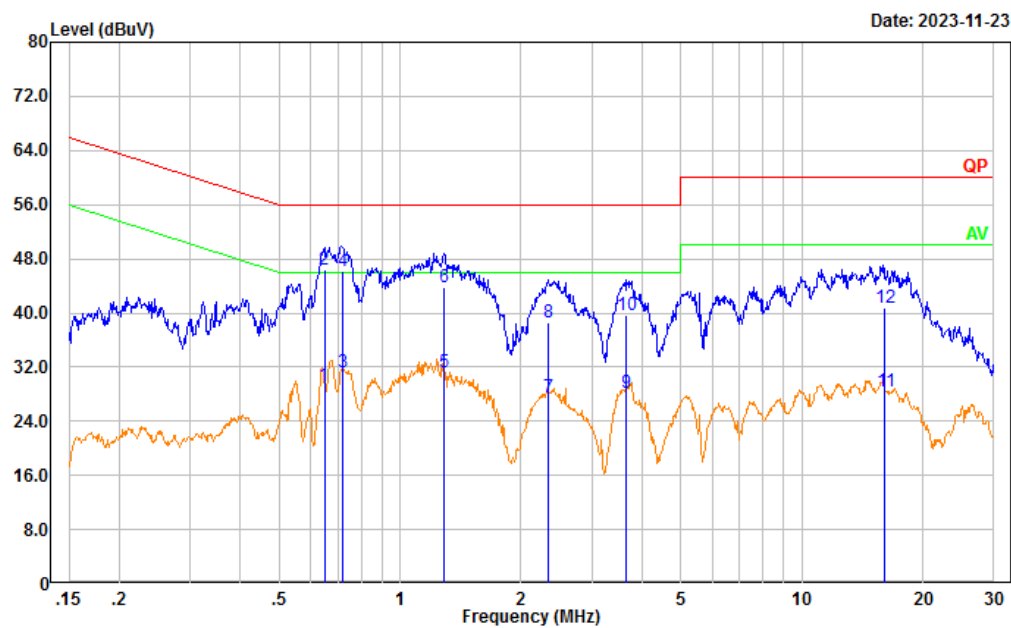
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
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).

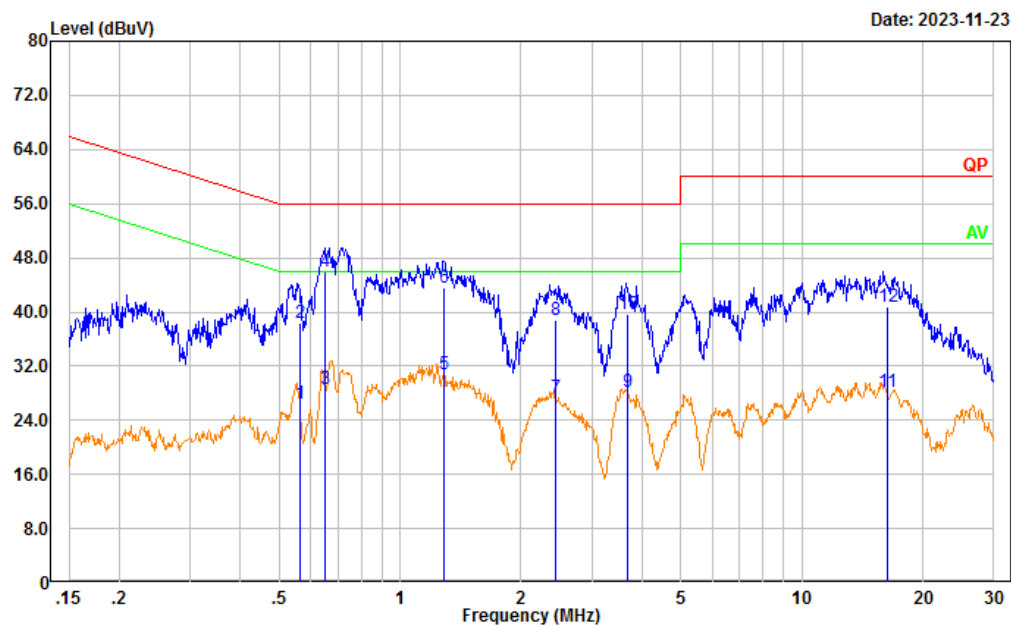
Test Data:

Project No.: CR231167220-RF
 Tester: David Huang
 Port: Line
 Note: Transmitting(5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
<hr/>							
1	0.648	19.57	9.62	29.19	46.00	16.81	Average
2	0.648	36.85	9.62	46.47	56.00	9.53	QP
3	0.717	21.68	9.62	31.30	46.00	14.70	Average
4	0.717	36.61	9.62	46.23	56.00	9.77	QP
5	1.286	21.62	9.62	31.24	46.00	14.76	Average
6	1.286	34.19	9.62	43.81	56.00	12.19	QP
7	2.330	17.90	9.64	27.54	46.00	18.46	Average
8	2.330	28.93	9.64	38.57	56.00	17.43	QP
9	3.663	18.56	9.65	28.21	46.00	17.79	Average
10	3.663	30.10	9.65	39.75	56.00	16.25	QP
11	16.106	18.75	9.71	28.46	50.00	21.54	Average
12	16.106	31.12	9.71	40.83	60.00	19.17	QP

Project No.: CR231167220-RF
 Tester: David Huang
 Port: neutral
 Note: Transmitting(5G WIFI)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
<hr/>							
1	0.562	16.73	9.62	26.35	46.00	19.65	Average
2	0.562	28.74	9.62	38.36	56.00	17.64	QP
3	0.650	18.92	9.62	28.54	46.00	17.46	Average
4	0.650	36.25	9.62	45.87	56.00	10.13	QP
5	1.283	21.20	9.62	30.82	46.00	15.18	Average
6	1.283	33.98	9.62	43.60	56.00	12.40	QP
7	2.429	17.74	9.64	27.38	46.00	18.62	Average
8	2.429	29.27	9.64	38.91	56.00	17.09	QP
9	3.671	18.56	9.65	28.21	46.00	17.79	Average
10	3.671	30.03	9.65	39.68	56.00	16.32	QP
11	16.287	18.42	9.69	28.11	50.00	21.89	Average
12	16.287	30.98	9.69	40.67	60.00	19.33	QP

4.2 Radiation Spurious Emissions

Serial Number:	2DMI-2	Test Date:	2023/12/2
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Vic Du, Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	24.7~25.7	Relative Humidity: (%)	46~57	ATM Pressure: (kPa)	101~101.7

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
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
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:

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

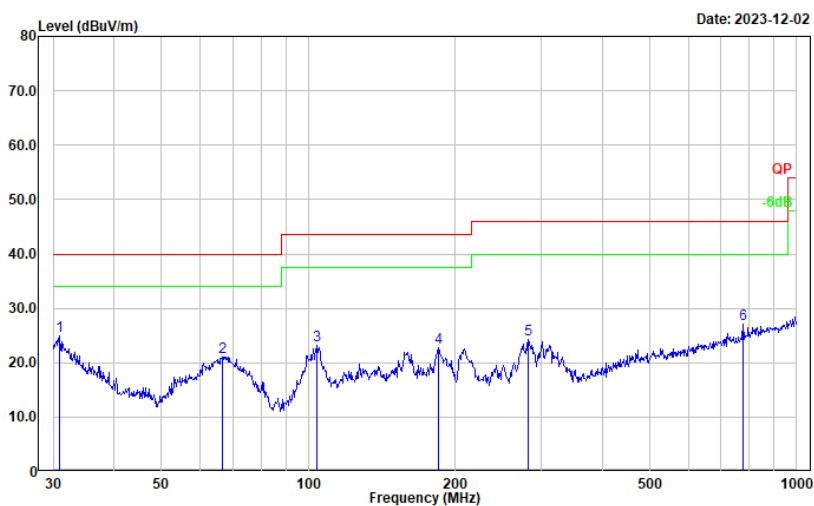
For 9kHz-30MHz, The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded

1) 30MHz-1GHz

5150-5250MHz (Maximum output power mode, 802.11ac vht20)

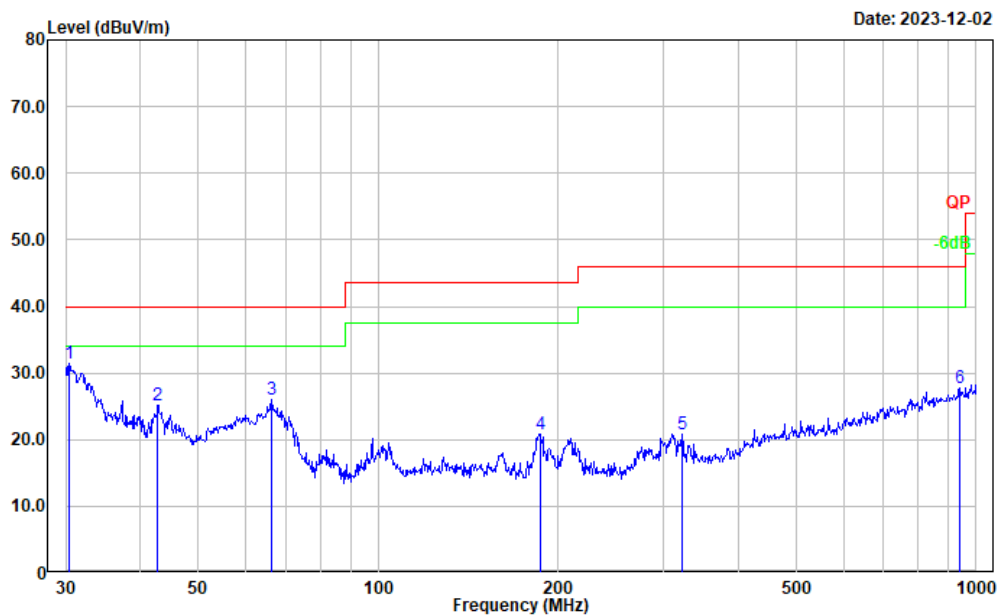
Low Channel

Project No.: CR231167220-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5G WiFi



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.962	29.56	-4.53	25.03	40.00	14.97	Peak
2	66.499	37.95	-16.85	21.10	40.00	18.90	Peak
3	103.806	36.75	-13.58	23.17	43.50	20.33	Peak
4	185.138	36.21	-13.51	22.70	43.50	20.80	Peak
5	281.995	35.92	-11.56	24.36	46.00	21.64	Peak
6	776.878	29.48	-2.42	27.06	46.00	18.94	Peak

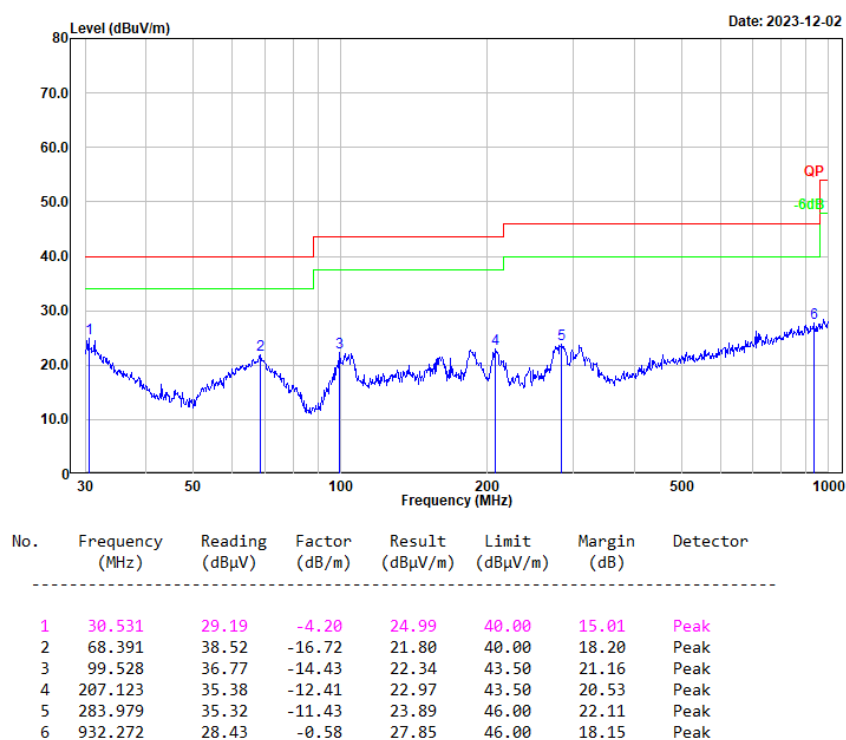
Project No.: CR231167220-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5G WiFi



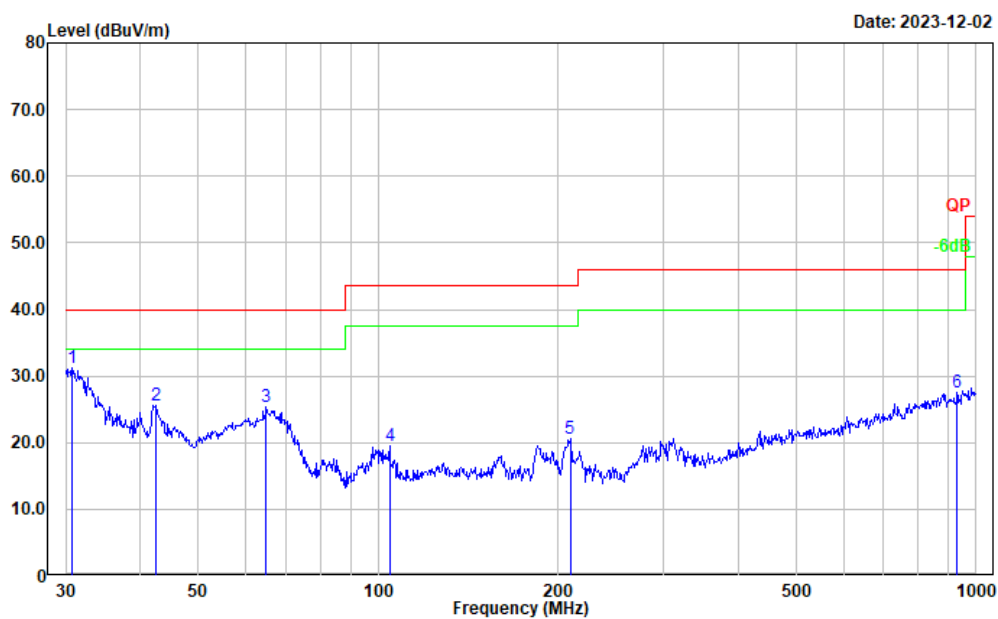
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.424	35.48	-4.13	31.35	40.00	8.65	Peak
2	42.750	38.17	-12.96	25.21	40.00	14.79	Peak
3	66.266	42.86	-16.86	26.00	40.00	14.00	Peak
4	186.441	34.37	-13.53	20.84	43.50	22.66	Peak
5	322.189	31.34	-10.47	20.87	46.00	25.13	Peak
6	938.833	28.18	-0.45	27.73	46.00	18.27	Peak

Middle Channel

Project No.: CR231167220-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5G WiFi



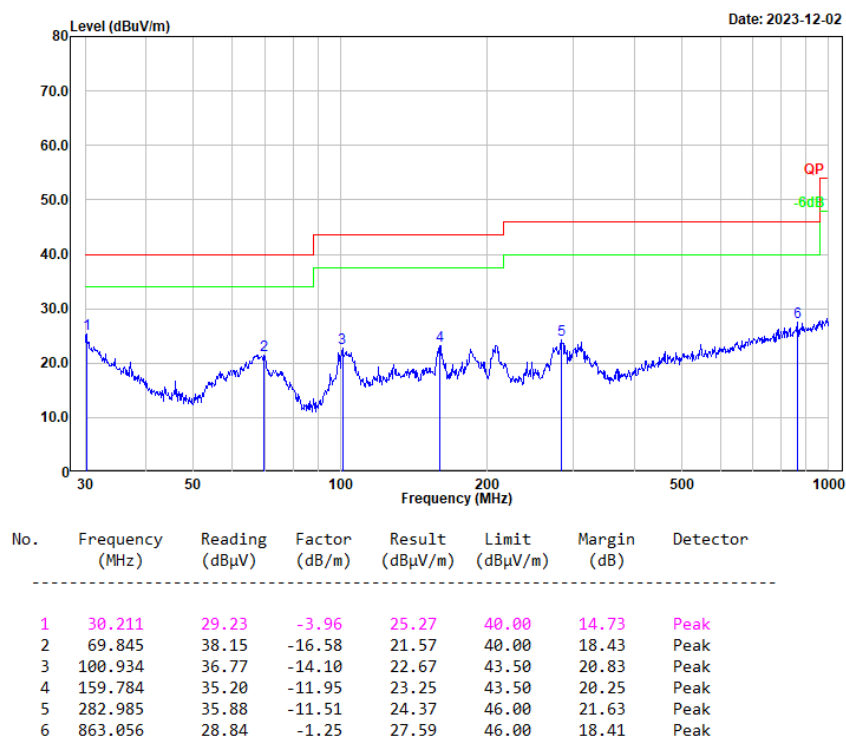
Project No.: CR231167220-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5G WiFi



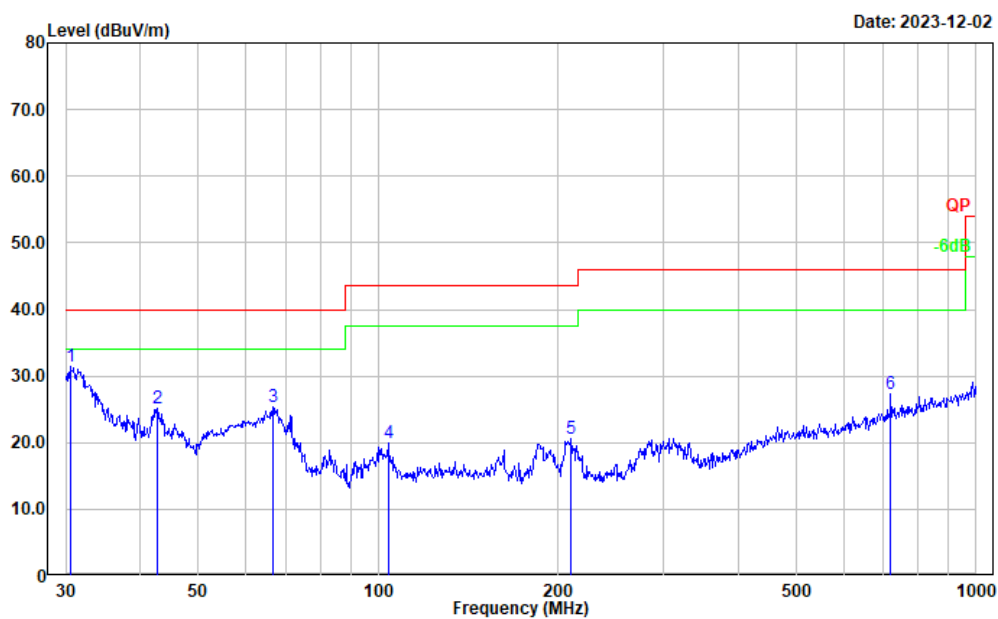
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.745	35.50	-4.36	31.14	40.00	8.86	Peak
2	42.451	38.33	-12.78	25.55	40.00	14.45	Peak
3	64.887	42.35	-16.94	25.41	40.00	14.59	Peak
4	104.536	32.91	-13.44	19.47	43.50	24.03	Peak
5	209.313	33.04	-12.48	20.56	43.50	22.94	Peak
6	929.008	28.09	-0.59	27.50	46.00	18.50	Peak

High Channel

Project No.: CR231167220-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5G WiFi



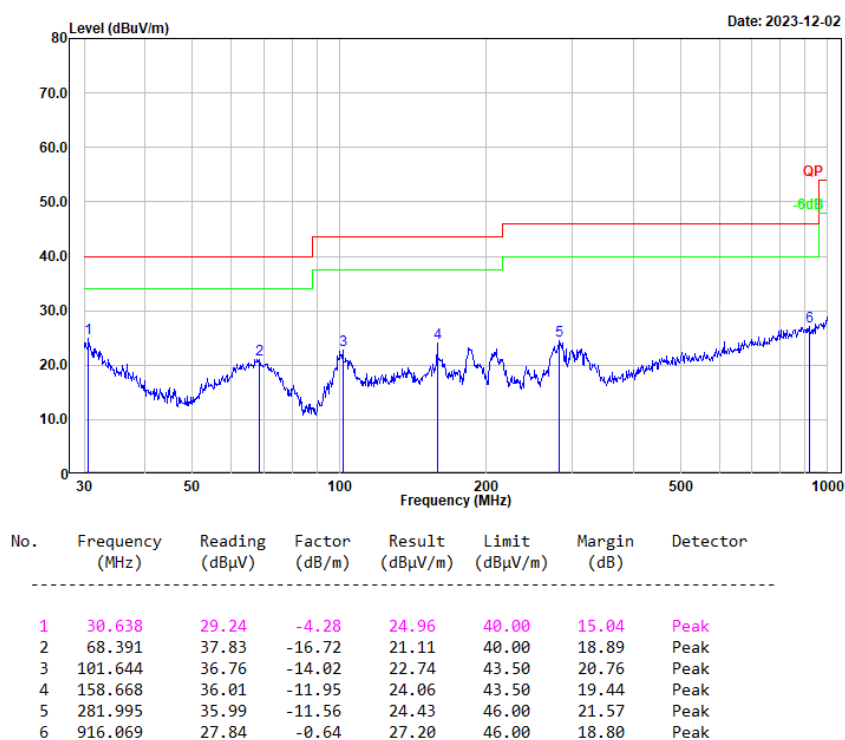
Project No.: CR231167220-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5G WiFi



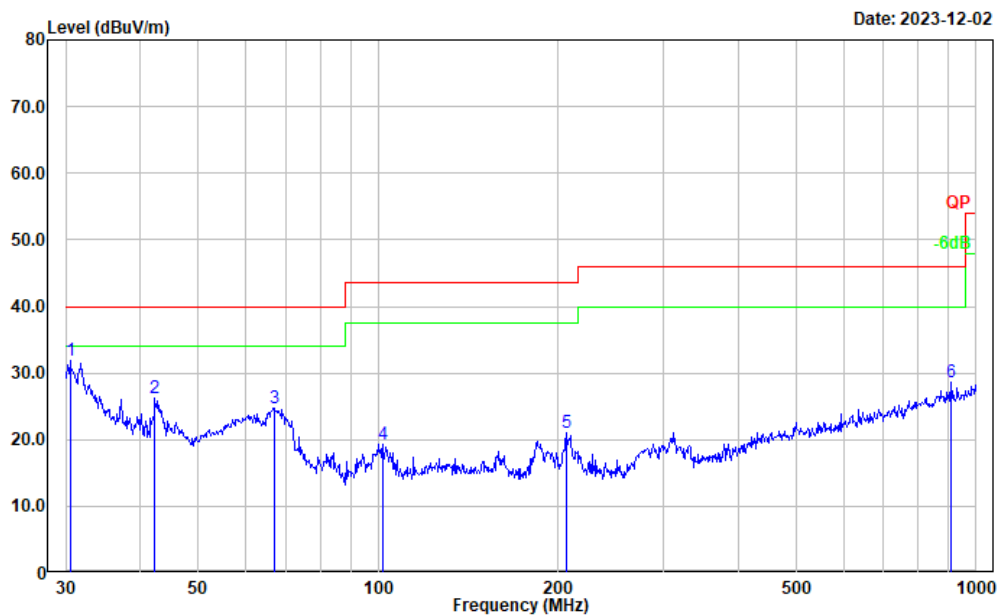
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	35.69	-4.20	31.49	40.00	8.51	Peak
2	42.750	38.11	-12.96	25.15	40.00	14.85	Peak
3	66.499	42.14	-16.85	25.29	40.00	14.71	Peak
4	103.806	33.46	-13.58	19.88	43.50	23.62	Peak
5	210.048	33.08	-12.49	20.59	43.50	22.91	Peak
6	719.200	30.64	-3.40	27.24	46.00	18.76	Peak

5725-5850MHz (Maximum output power mode, 802.11ac vht20
Low Channel

Project No.: CR231167220-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5G WiFi



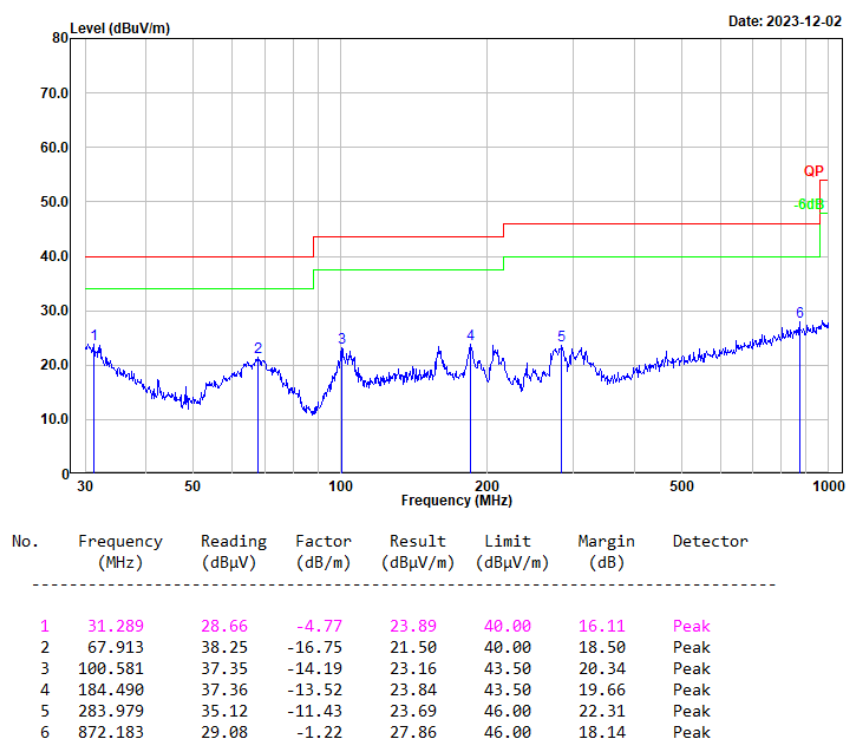
Project No.: CR231167220-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5G WiFi



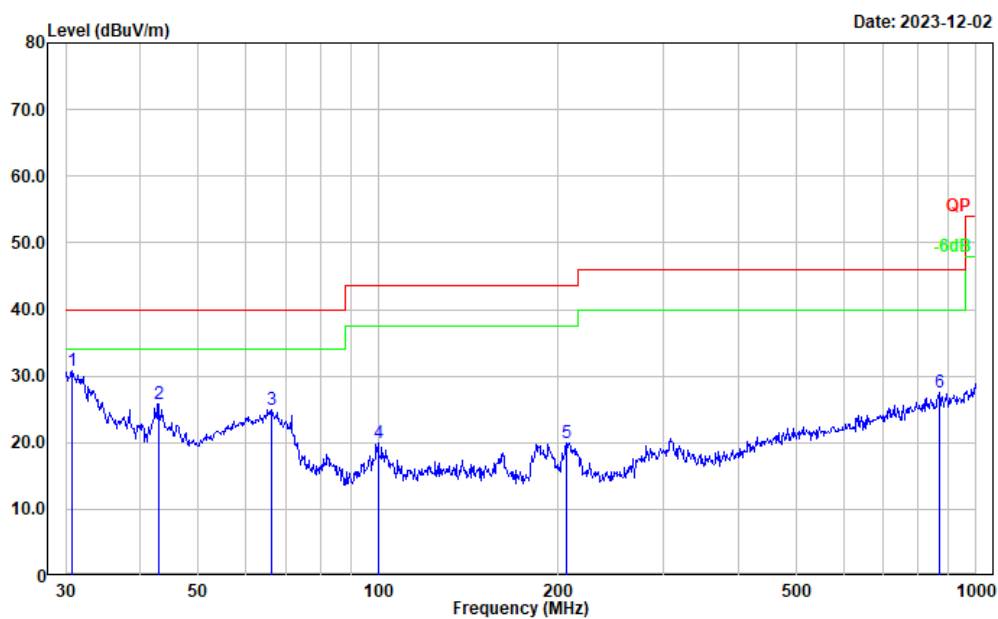
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	36.04	-4.20	31.84	40.00	8.16	Peak
2	42.302	39.00	-12.69	26.31	40.00	13.69	Peak
3	66.967	41.56	-16.80	24.76	40.00	15.24	Peak
4	101.644	33.34	-14.02	19.32	43.50	24.18	Peak
5	206.398	33.52	-12.40	21.12	43.50	22.38	Peak
6	909.667	29.27	-0.62	28.65	46.00	17.35	Peak

Middle Channel

Project No.: CR231167220-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5G WiFi



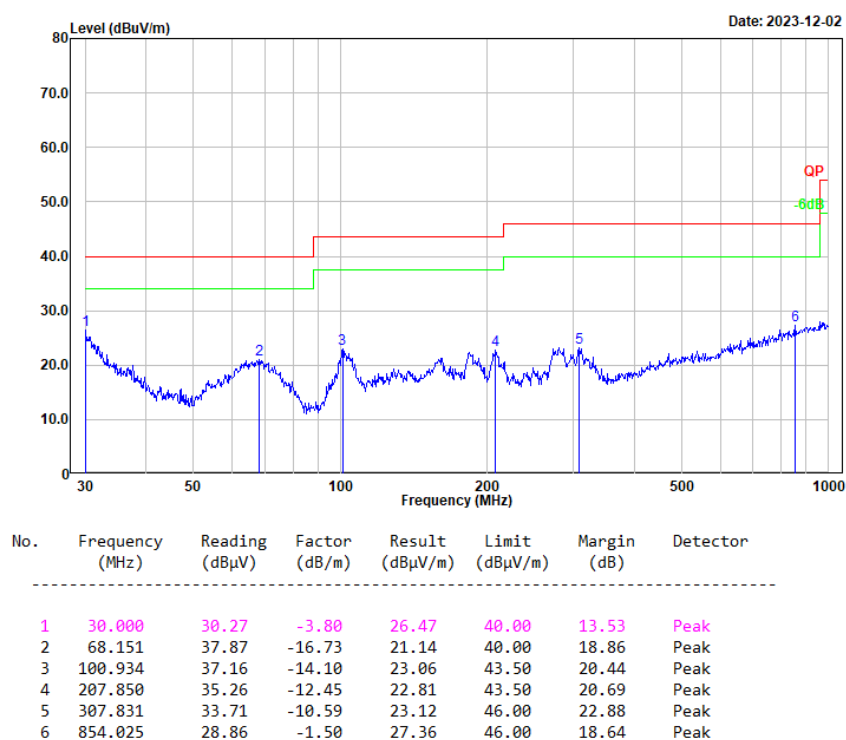
Project No.: CR231167220-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5G WiFi



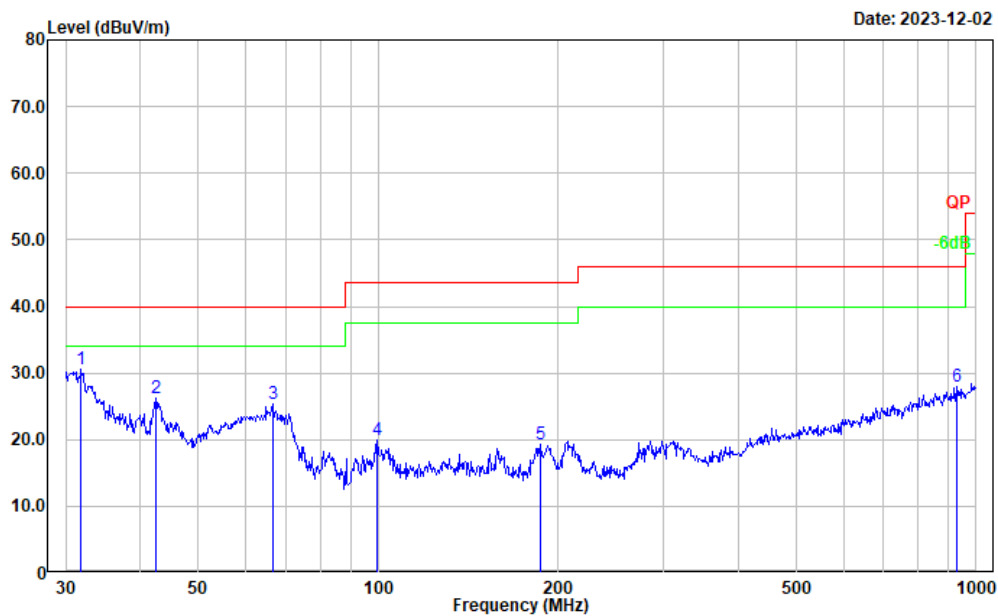
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.745	35.09	-4.36	30.73	40.00	9.27	Peak
2	42.900	38.76	-13.05	25.71	40.00	14.29	Peak
3	66.266	41.82	-16.86	24.96	40.00	15.04	Peak
4	99.878	34.39	-14.35	20.04	43.50	23.46	Peak
5	206.398	32.35	-12.40	19.95	43.50	23.55	Peak
6	866.088	28.85	-1.22	27.63	46.00	18.37	Peak

High Channel

Project No.: CR231167220-RF
Tester: Vic Du
Polarization: horizontal
Note: Transmitting 5G WiFi



Project No.: CR231167220-RF
Tester: Vic Du
Polarization: vertical
Note: Transmitting 5G WiFi



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.843	35.72	-5.18	30.54	40.00	9.46	Peak
2	42.451	39.07	-12.78	26.29	40.00	13.71	Peak
3	66.499	42.26	-16.85	25.41	40.00	14.59	Peak
4	99.528	34.44	-14.43	20.01	43.50	23.49	Peak
5	186.441	32.89	-13.53	19.36	43.50	24.14	Peak
6	925.756	28.56	-0.63	27.93	46.00	18.07	Peak

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

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180 MHz							
5150.000	55.81	PK	H	11.67	67.48	74.00	6.52
5150.000	35.68	AV	H	11.67	47.35	54.00	6.65
5150.000	56.46	PK	V	11.67	68.13	74.00	5.87
5150.000	37.02	AV	V	11.67	48.69	54.00	5.31
10360.000	34.40	PK	H	20.47	54.87	68.20	13.33
10360.000	28.81	PK	V	20.47	49.28	68.20	18.92
Middle Channel: 5200 MHz							
10400.000	34.55	PK	H	20.54	55.09	68.20	13.11
10400.000	29.06	PK	V	20.54	49.6	68.20	18.60
High Channel: 5240 MHz							
5350.000	46.00	PK	H	11.94	57.94	74.00	16.06
5350.000	32.89	AV	H	11.94	44.83	54.00	9.17
5350.000	46.31	PK	V	11.94	58.25	74.00	15.75
5350.000	33.18	AV	V	11.94	45.12	54.00	8.88
10480.000	34.41	PK	H	20.42	54.83	68.20	13.37
10480.000	29.92	PK	V	20.42	50.34	68.20	17.86

802.11ac vht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180 MHz							
5150.000	56.47	PK	H	11.67	68.14	74.00	5.86
5150.000	37.35	AV	H	11.67	49.02	54.00	4.98
5150.000	57.58	PK	V	11.67	69.25	74.00	4.75
5150.000	38.49	AV	V	11.67	50.16	54.00	3.84
10360.000	34.23	PK	H	20.47	54.7	68.20	13.50
10360.000	28.68	PK	V	20.47	49.15	68.20	19.05
Middle Channel: 5200 MHz							
10400.000	34.55	PK	H	20.54	55.09	68.20	13.11
10400.000	29.20	PK	V	20.54	49.74	68.20	18.46
High Channel: 5240 MHz							
5350.000	45.86	PK	H	11.94	57.8	74.00	16.20
5350.000	33.19	AV	H	11.94	45.13	54.00	8.87
5350.000	46.32	PK	V	11.94	58.26	74.00	15.74
5350.000	33.34	AV	V	11.94	45.28	54.00	8.72
10480.000	34.90	PK	H	20.42	55.32	68.20	12.88
10480.000	29.51	PK	V	20.42	49.93	68.20	18.27

802.11ac vht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5190 MHz							
5150.000	56.57	PK	H	11.67	68.24	74.00	5.76
5150.000	37.61	AV	H	11.67	49.28	54.00	4.72
5150.000	57.38	PK	V	11.67	69.05	74.00	4.95
5150.000	38.47	AV	V	11.67	50.14	54.00	3.86
10380.000	34.76	PK	H	20.51	55.27	68.20	12.93
10380.000	28.47	PK	V	20.51	48.98	68.20	19.22
High Channel: 5230 MHz							
5350.000	46.19	PK	H	11.94	58.13	74.00	15.87
5350.000	33.01	AV	H	11.94	44.95	54.00	9.05
5350.000	46.50	PK	V	11.94	58.44	74.00	15.56
5350.000	33.35	AV	V	11.94	45.29	54.00	8.71
10460.000	34.61	PK	H	20.45	55.06	68.20	13.14
10460.000	28.77	PK	V	20.45	49.22	68.20	18.98

802.11ac vht80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel:				5210	MHz		
5150.000	49.46	PK	H	11.67	61.13	74.00	12.87
5150.000	37.67	AV	H	11.67	49.34	54.00	4.66
5150.000	50.89	PK	V	11.67	62.56	74.00	11.44
5150.000	38.75	AV	V	11.67	50.42	54.00	3.58
5350.000	46.14	PK	H	11.94	58.08	74.00	15.92
5350.000	33.89	AV	H	11.94	45.83	54.00	8.17
5350.000	46.57	PK	V	11.94	58.51	74.00	15.49
5350.000	34.22	AV	V	11.94	46.16	54.00	7.84
10420.000	28.33	PK	H	20.51	48.84	68.20	19.36
10420.000	28.92	PK	V	20.51	49.43	68.20	18.77

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

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				5745	MHz		
11490.000	34.17	PK	H	21.49	55.66	74.00	18.34
11490.000	22.80	AV	H	21.49	44.29	54.00	9.71
11490.000	34.71	PK	V	21.49	56.2	74.00	17.80
11490.000	22.54	AV	V	21.49	44.03	54.00	9.97
Middle Channel:				5785	MHz		
11570.000	34.19	PK	H	21.71	55.9	74.00	18.10
11570.000	22.08	AV	H	21.71	43.79	54.00	10.21
11570.000	34.03	PK	V	21.71	55.74	74.00	18.26
11570.000	22.62	AV	V	21.71	44.33	54.00	9.67
High Channel:				5825	MHz		
11650.000	34.46	PK	H	22.04	56.5	74.00	17.50
11650.000	22.00	AV	H	22.04	44.04	54.00	9.96
11650.000	34.27	PK	V	22.04	56.31	74.00	17.69
11650.000	22.41	AV	V	22.04	44.45	54.00	9.55

802.11ac vht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
11490.000	34.58	PK	H	21.49	56.07	74.00	17.93
11490.000	22.91	AV	H	21.49	44.4	54.00	9.60
11490.000	34.42	PK	V	21.49	55.91	74.00	18.09
11490.000	22.04	AV	V	21.49	43.53	54.00	10.47
Middle Channel: 5785 MHz							
11570.000	34.62	PK	H	21.71	56.33	74.00	17.67
11570.000	22.78	AV	H	21.71	44.49	54.00	9.51
11570.000	34.51	PK	V	21.71	56.22	74.00	17.78
11570.000	22.55	AV	V	21.71	44.26	54.00	9.74
High Channel: 5825 MHz							
11650.000	34.79	PK	H	22.04	56.83	74.00	17.17
11650.000	22.07	AV	H	22.04	44.11	54.00	9.89
11650.000	34.38	PK	V	22.04	56.42	74.00	17.58
11650.000	22.25	AV	V	22.04	44.29	54.00	9.71

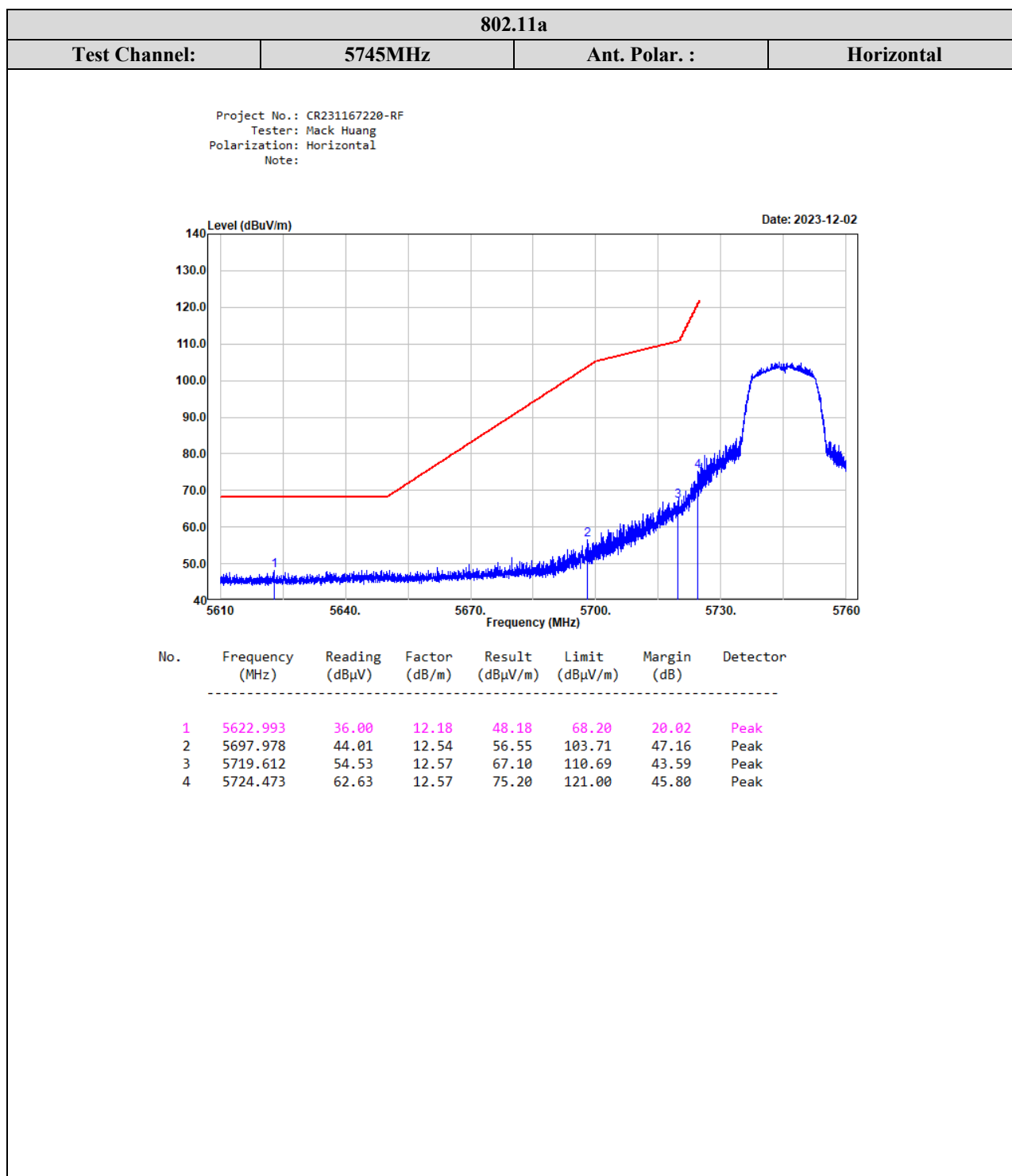
802.11ac vht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5755 MHz							
11510.000	34.09	PK	H	21.48	55.57	74.00	18.43
11510.000	22.55	AV	H	21.48	44.03	54.00	9.97
11510.000	34.66	PK	V	21.48	56.14	74.00	17.86
11510.000	22.72	AV	V	21.48	44.2	54.00	9.80
High Channel: 5795 MHz							
11590.000	34.74	PK	H	21.79	56.53	74.00	17.47
11590.000	22.88	AV	H	21.79	44.67	54.00	9.33
11590.000	34.51	PK	V	21.79	56.3	74.00	17.70
11590.000	22.85	AV	V	21.79	44.64	54.00	9.36

802.11ac vht80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel:				5775	MHz		
11550.000	34.33	PK	H	21.63	55.96	74.00	18.04
11550.000	22.46	AV	H	21.63	44.09	54.00	9.91
11550.000	34.80	PK	V	21.63	56.43	74.00	17.57
11550.000	22.19	AV	V	21.63	43.82	54.00	10.18

Test plots for Band Edge Measurements (Radiated)



802.11a

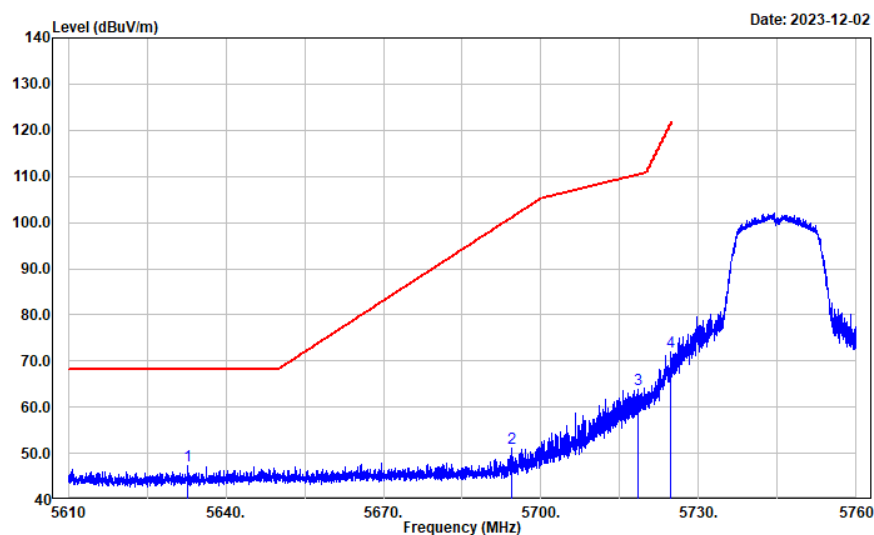
Test Channel:

5745MHz

Ant. Polar. :

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5632.685	35.12	12.22	47.34	68.20	20.86	Peak
2	5694.497	38.54	12.52	51.06	101.14	50.08	Peak
3	5718.442	51.26	12.57	63.83	110.36	46.53	Peak
4	5724.773	59.31	12.57	71.88	121.68	49.80	Peak

802.11a

Test Channel:

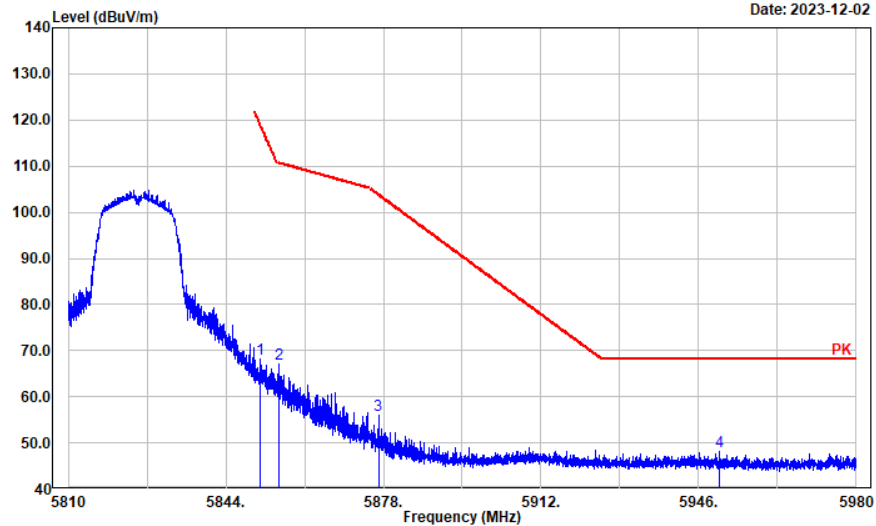
5825MHz

Ant. Polar. :

Horizontal

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: Horizontal
Note:

Date: 2023-12-02



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5851.454	55.29	12.78	68.07	118.88	50.81	Peak
2	5855.433	54.38	12.80	67.18	110.68	43.50	Peak
3	5876.925	43.16	12.90	56.06	103.77	47.71	Peak
4	5950.380	35.19	13.04	48.23	68.20	19.97	Peak

802.11a

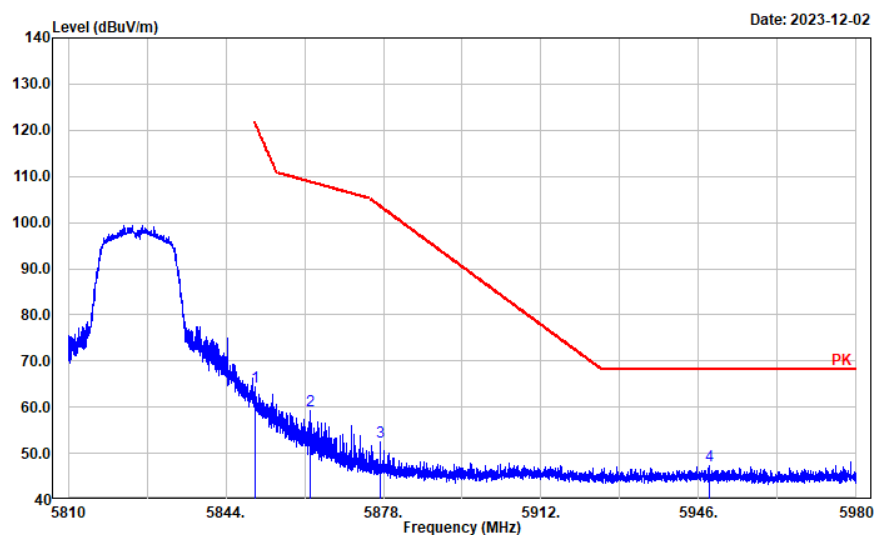
Test Channel:

5825MHz

Ant. Polar. :

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.332	51.51	12.77	64.28	121.44	57.16	Peak
2	5862.336	46.45	12.83	59.28	108.74	49.46	Peak
3	5877.266	39.48	12.90	52.38	103.52	51.14	Peak
4	5948.238	34.17	13.03	47.20	68.20	21.00	Peak

802.11ac vht20

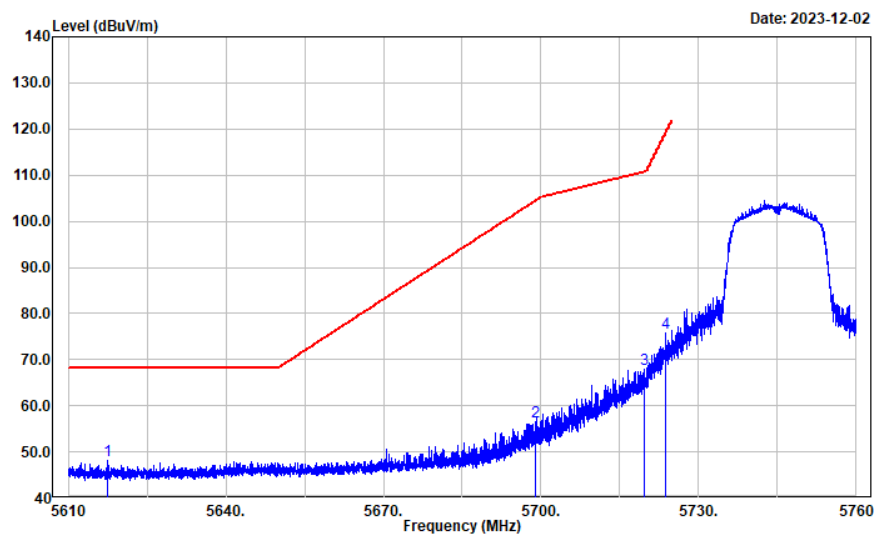
Test Channel:

5745MHz

Ant. Polar. :

Horizontal

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5617.441	35.94	12.14	48.08	68.20	20.12	Peak
2	5698.908	44.07	12.55	56.62	104.40	47.78	Peak
3	5719.732	55.23	12.57	67.80	110.73	42.93	Peak
4	5723.783	63.09	12.57	75.66	119.43	43.77	Peak

802.11ac vht20

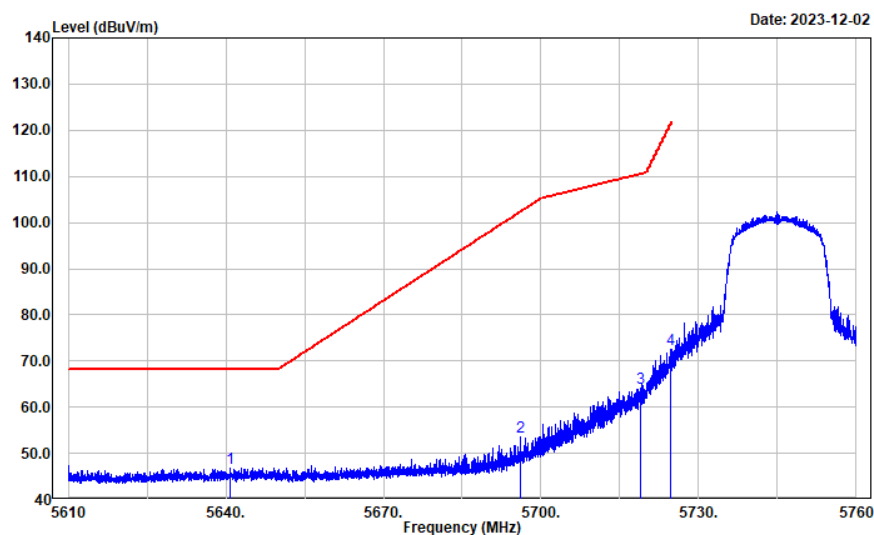
Test Channel:

5745MHz

Ant. Polar. :

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5640.936	34.54	12.28	46.82	68.20	21.38	Peak
2	5695.997	40.96	12.53	53.49	102.25	48.76	Peak
3	5719.042	51.58	12.57	64.15	110.53	46.38	Peak
4	5724.563	59.82	12.57	72.39	121.20	48.81	Peak

802.11ac vht20

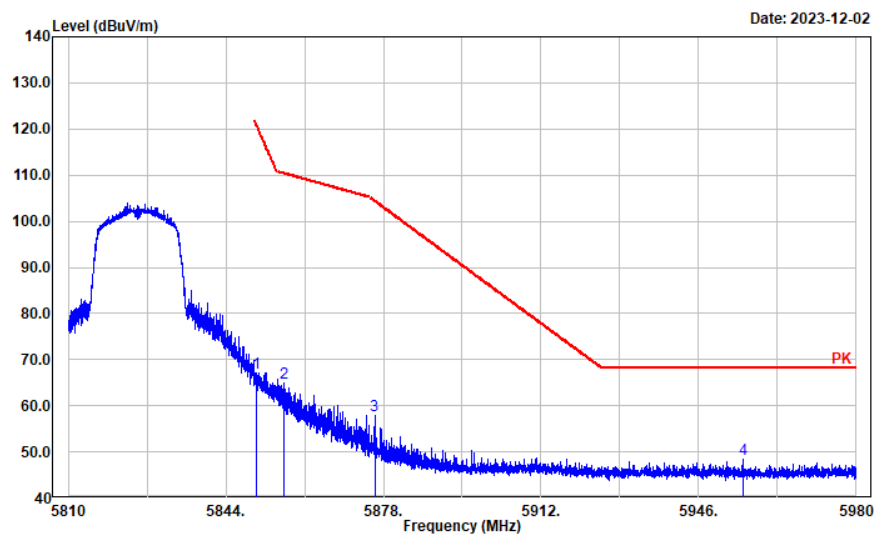
Test Channel:

5825MHz

Ant. Polar. :

Horizontal

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.638	54.43	12.77	67.20	120.74	53.54	Peak
2	5856.487	51.99	12.81	64.80	110.38	45.58	Peak
3	5876.109	45.11	12.89	58.00	104.38	46.38	Peak
4	5955.515	35.33	13.06	48.39	68.20	19.81	Peak

802.11ac vht20

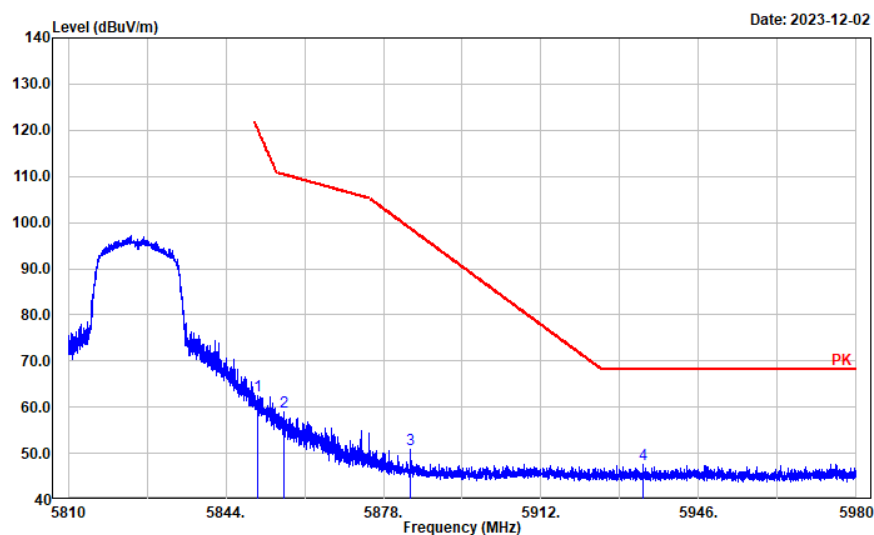
Test Channel:

5825MHz

Ant. Polar. :

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.978	49.82	12.77	62.59	119.97	57.38	Peak
2	5856.521	46.09	12.81	58.90	110.37	51.47	Peak
3	5883.727	37.79	12.93	50.72	98.72	48.00	Peak
4	5933.955	34.50	13.03	47.53	68.20	20.67	Peak

802.11ac vht40

Test Channel:

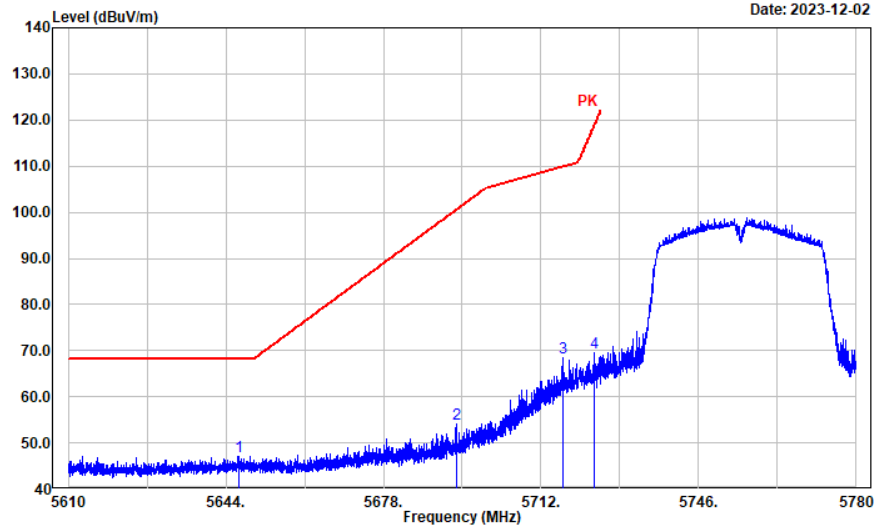
5755MHz

Ant. Polar. :

Horizontal

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: Horizontal
Note:

Date: 2023-12-02



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5646.830	34.70	12.31	47.01	68.20	21.19	Peak
2	5693.861	41.69	12.52	54.21	100.67	46.46	Peak
3	5716.781	55.84	12.57	68.41	109.90	41.49	Peak
4	5723.583	57.04	12.57	69.61	118.97	49.36	Peak

802.11ac vht40

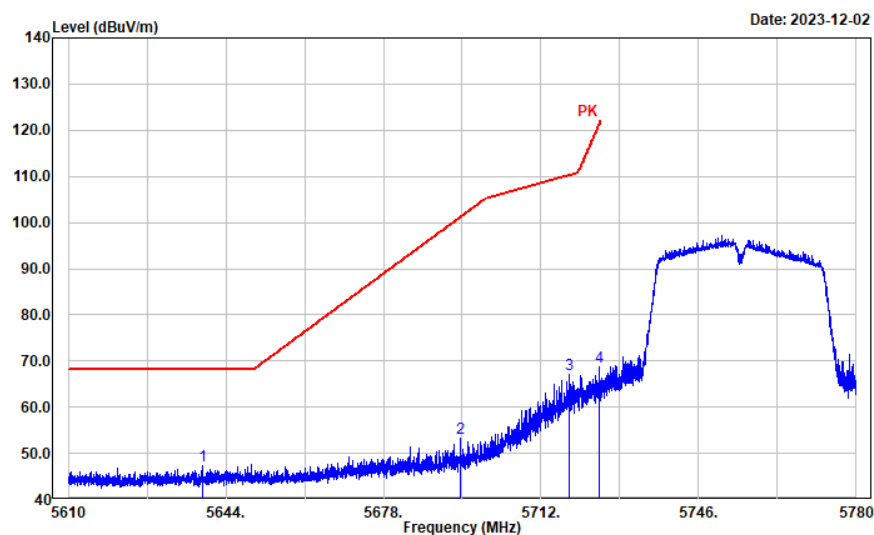
Test Channel:

5755MHz

Ant. Polar. :

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5639.076	34.97	12.26	47.23	68.20	20.97	Peak
2	5694.575	40.64	12.52	53.16	101.20	48.04	Peak
3	5717.972	54.47	12.57	67.04	110.23	43.19	Peak
4	5724.671	56.09	12.57	68.66	121.45	52.79	Peak

802.11ac vht40

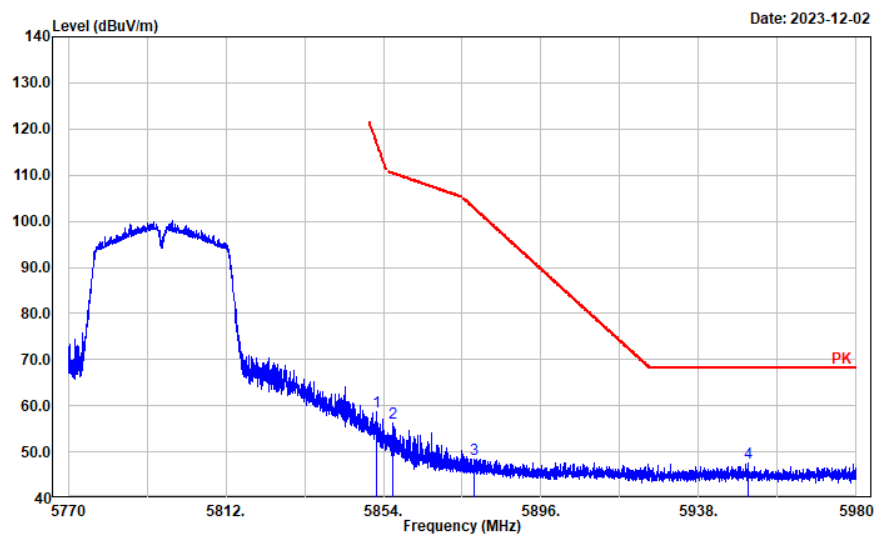
Test Channel:

5795MHz

Ant. Polar. :

Horizontal

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5852.210	45.88	12.78	58.66	117.16	58.50	Peak
2	5856.495	43.54	12.81	56.35	110.38	54.03	Peak
3	5878.298	35.52	12.91	48.43	102.75	54.32	Peak
4	5951.140	34.50	13.04	47.54	68.20	20.66	Peak

802.11ac vht40

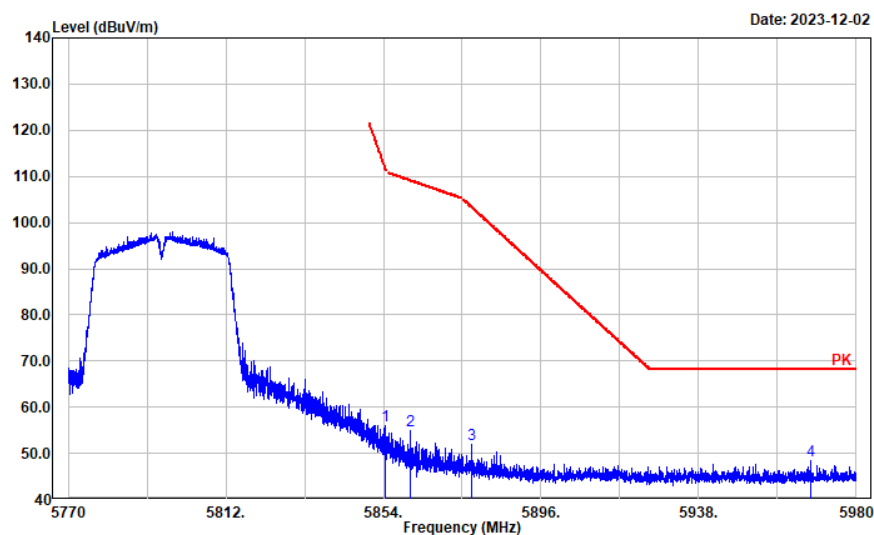
Test Channel:

5795MHz

Ant. Polar. :

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5854.647	43.30	12.80	56.10	111.60	55.50	Peak
2	5861.284	42.06	12.83	54.89	109.04	54.15	Peak
3	5877.542	39.06	12.90	51.96	103.31	51.35	Peak
4	5967.859	35.19	13.11	48.30	68.20	19.90	Peak

802.11ac vht80

Test Channel:

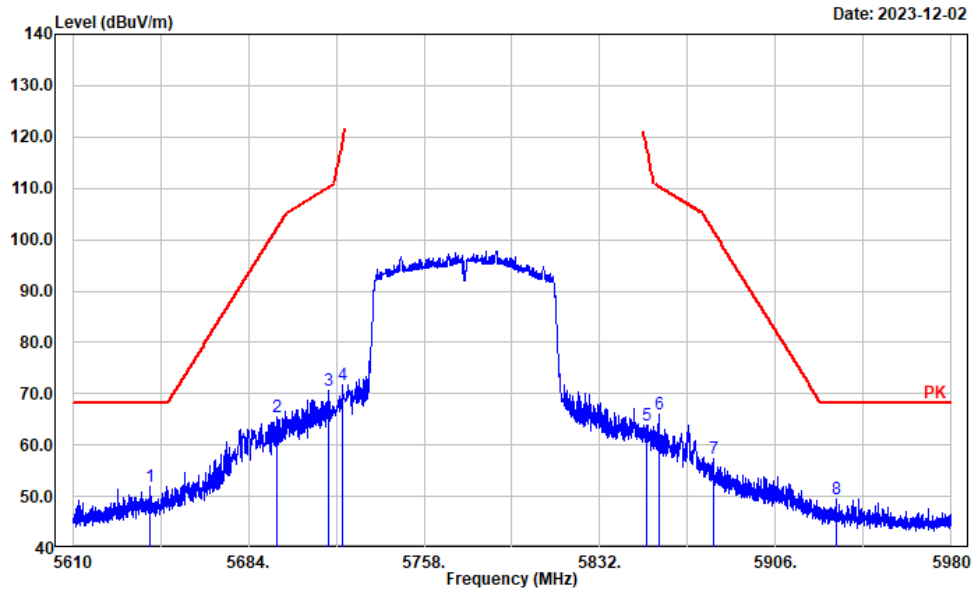
5775MHz

Ant. Polar. :

Horizontal

Project No.: CR231167220-RF
 Tester: Mack Huang
 Polarization: Horizontal
 Note:

Date: 2023-12-02



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5642.789	39.54	12.28	51.82	68.20	16.38	Peak
2	5696.005	52.96	12.53	65.49	102.26	36.77	Peak
3	5717.618	58.15	12.57	70.72	110.13	39.41	Peak
4	5723.465	59.20	12.57	71.77	118.70	46.93	Peak
5	5851.880	51.17	12.78	63.95	117.91	53.96	Peak
6	5857.209	53.09	12.81	65.90	110.18	44.28	Peak
7	5880.006	44.35	12.92	57.27	101.48	44.21	Peak
8	5931.742	36.48	13.03	49.51	68.20	18.69	Peak

802.11ac vht80

Test Channel:

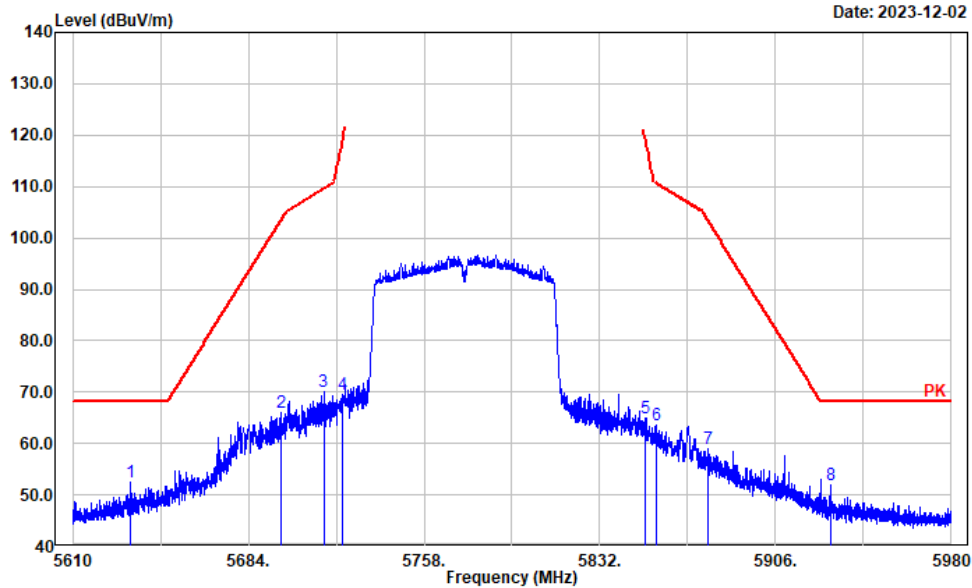
5775MHz

Ant. Polar. :

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:

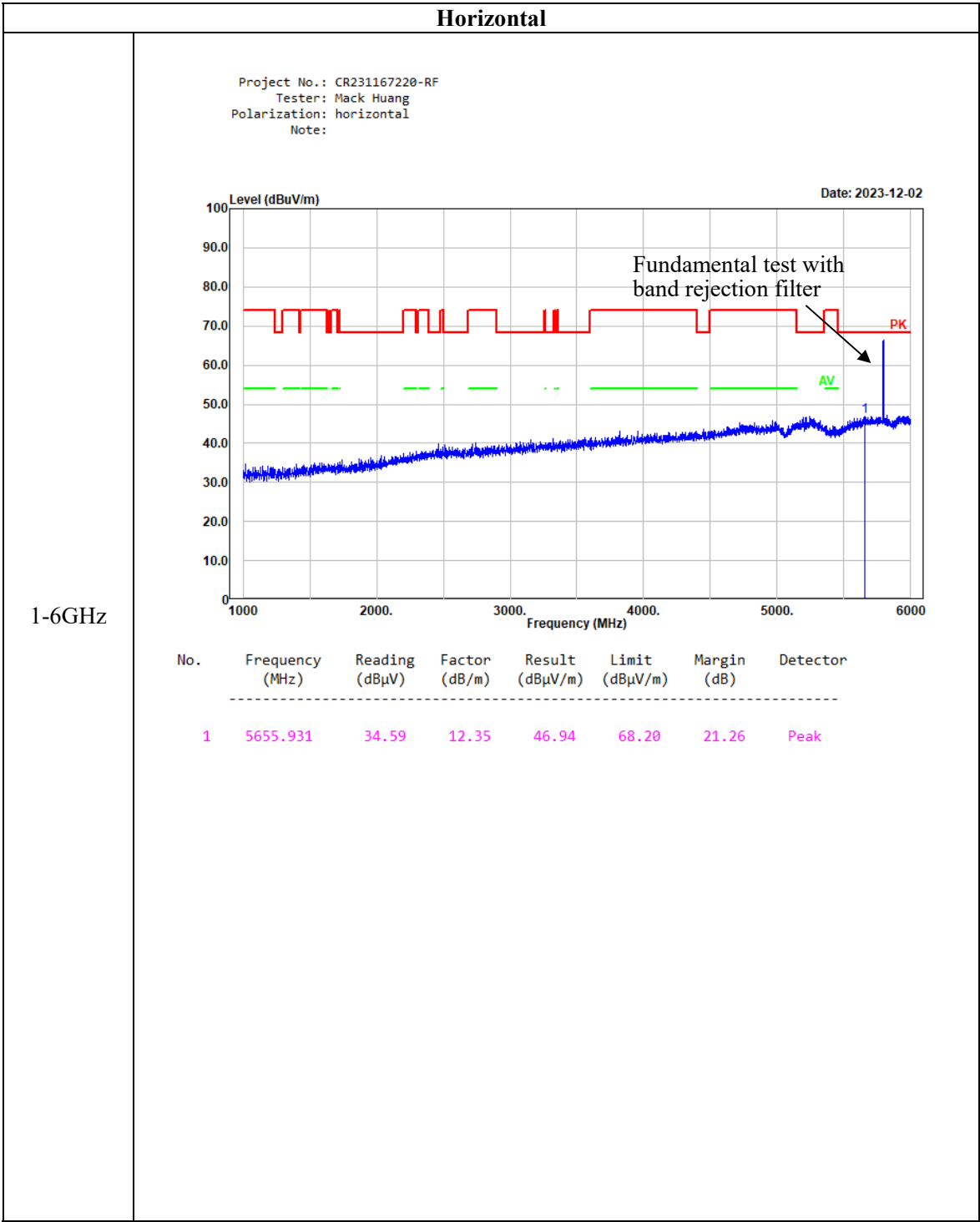
Date: 2023-12-02



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5634.573	40.16	12.24	52.40	68.20	15.80	Peak
2	5697.782	53.55	12.54	66.09	103.57	37.48	Peak
3	5715.693	57.50	12.56	70.06	109.60	39.54	Peak
4	5723.835	56.93	12.57	69.50	119.54	50.04	Peak
5	5851.214	52.21	12.77	64.98	119.43	54.45	Peak
6	5855.729	50.71	12.80	63.51	110.60	47.09	Peak
7	5877.416	45.98	12.90	58.88	103.41	44.53	Peak
8	5929.152	38.79	13.03	51.82	68.20	16.38	Peak

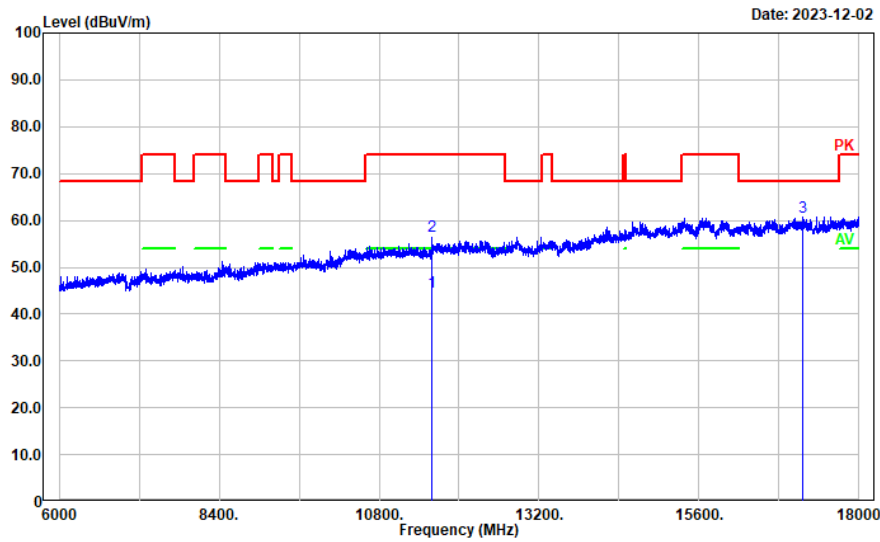
Listed with the worst harmonic margin test plot (802.11ac vht40 5795MHz)

t



Horizontal

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: horizontal
Note:

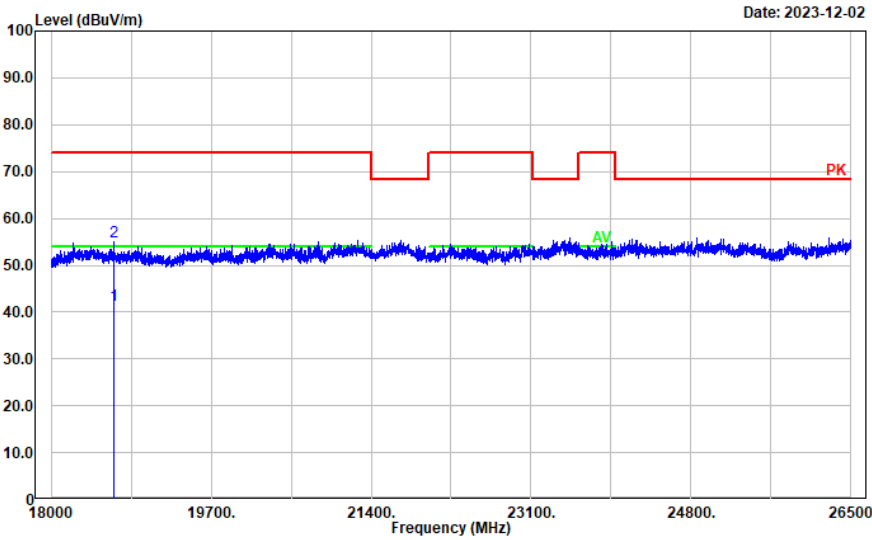


6-18GHz

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11590.000	22.88	21.79	44.67	54.00	9.33	Average
2	11590.000	34.74	21.79	56.53	74.00	17.47	Peak
3	17145.430	32.17	28.55	60.72	68.20	7.48	Peak

Horizontal

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: Horizontal
Note:

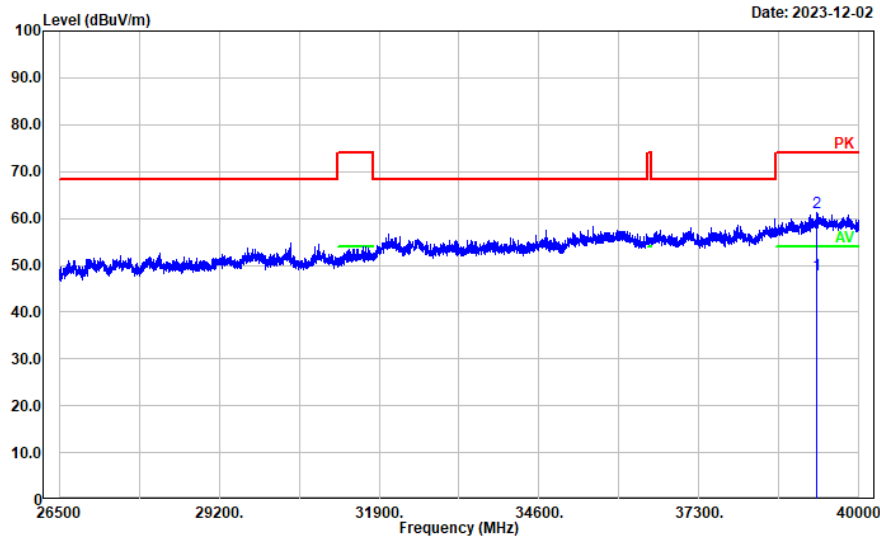


18-26.5GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	18668.230	36.47	4.88	41.35	54.00	12.65	Average
2	18668.230	50.04	4.88	54.92	74.00	19.08	Peak

Horizontal

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



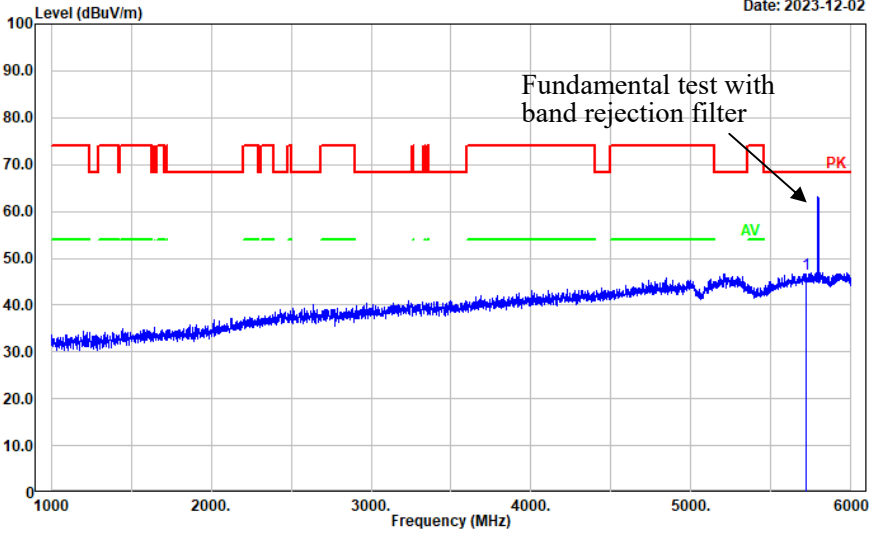
26.5-40GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39276.250	37.77	10.18	47.95	54.00	6.05	Average
2	39276.250	51.02	10.18	61.20	74.00	12.80	Peak

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:

Date: 2023-12-02

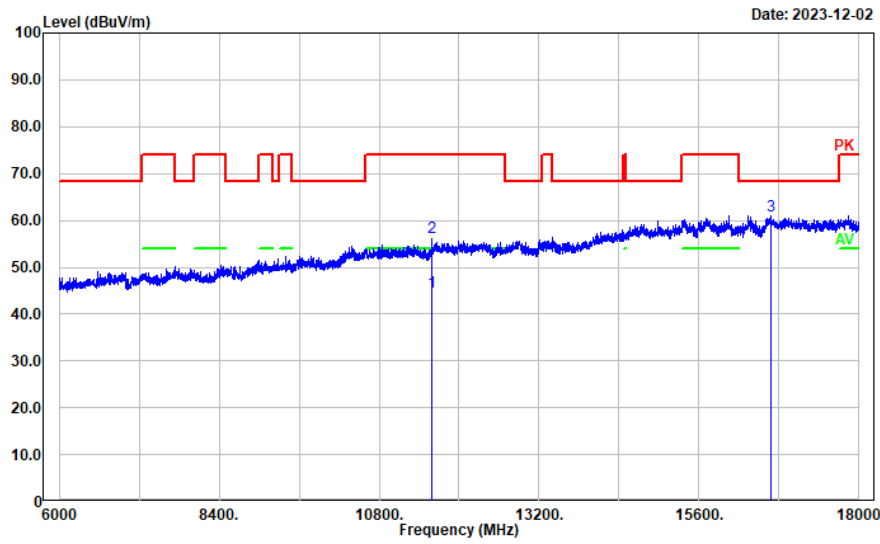


1-6GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5721.944	34.10	12.57	46.67	68.20	21.53	Peak

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:

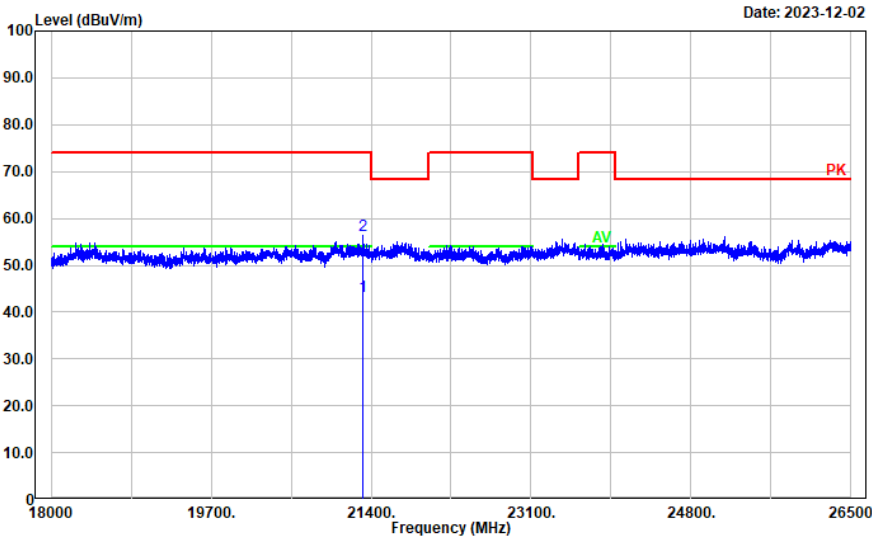


6-18GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11590.000	22.85	21.79	44.64	54.00	9.36	Average
2	11590.000	34.51	21.79	56.30	74.00	17.70	Peak
3	16670.130	34.41	26.63	61.04	68.20	7.16	Peak

Vertical

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:



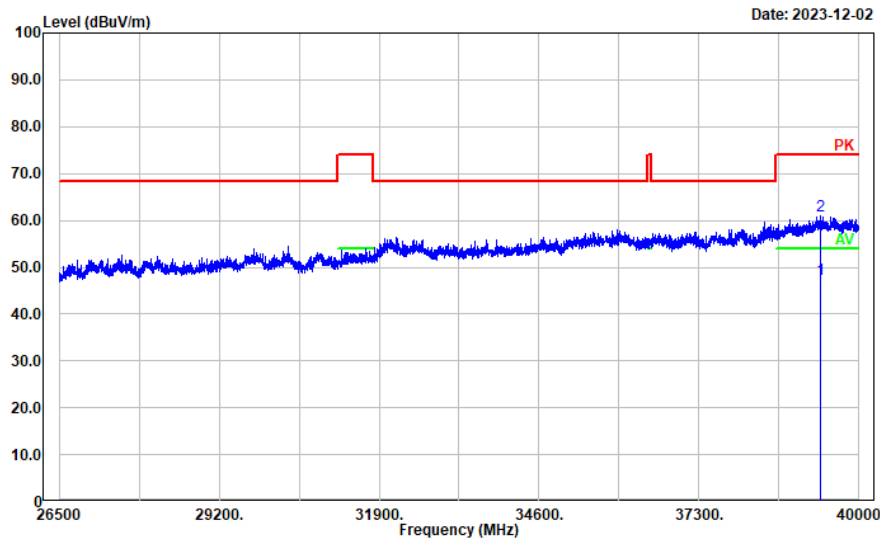
18-26.5GHz

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	21307.160	38.53	4.75	43.28	54.00	10.72	Average
2	21307.160	51.74	4.75	56.49	74.00	17.51	Peak

Vertical

26.5-40GHz

Project No.: CR231167220-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39351.870	37.17	10.17	47.34	54.00	6.66	Average
2	39351.870	50.77	10.17	60.94	74.00	13.06	Peak

4.3 Emission Bandwidth:

Serial Number:	2DMI-1	Test Date:	2023/12/4-2023/12/5
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.2-26.8	Relative Humidity: (%)	48-49	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211002	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:

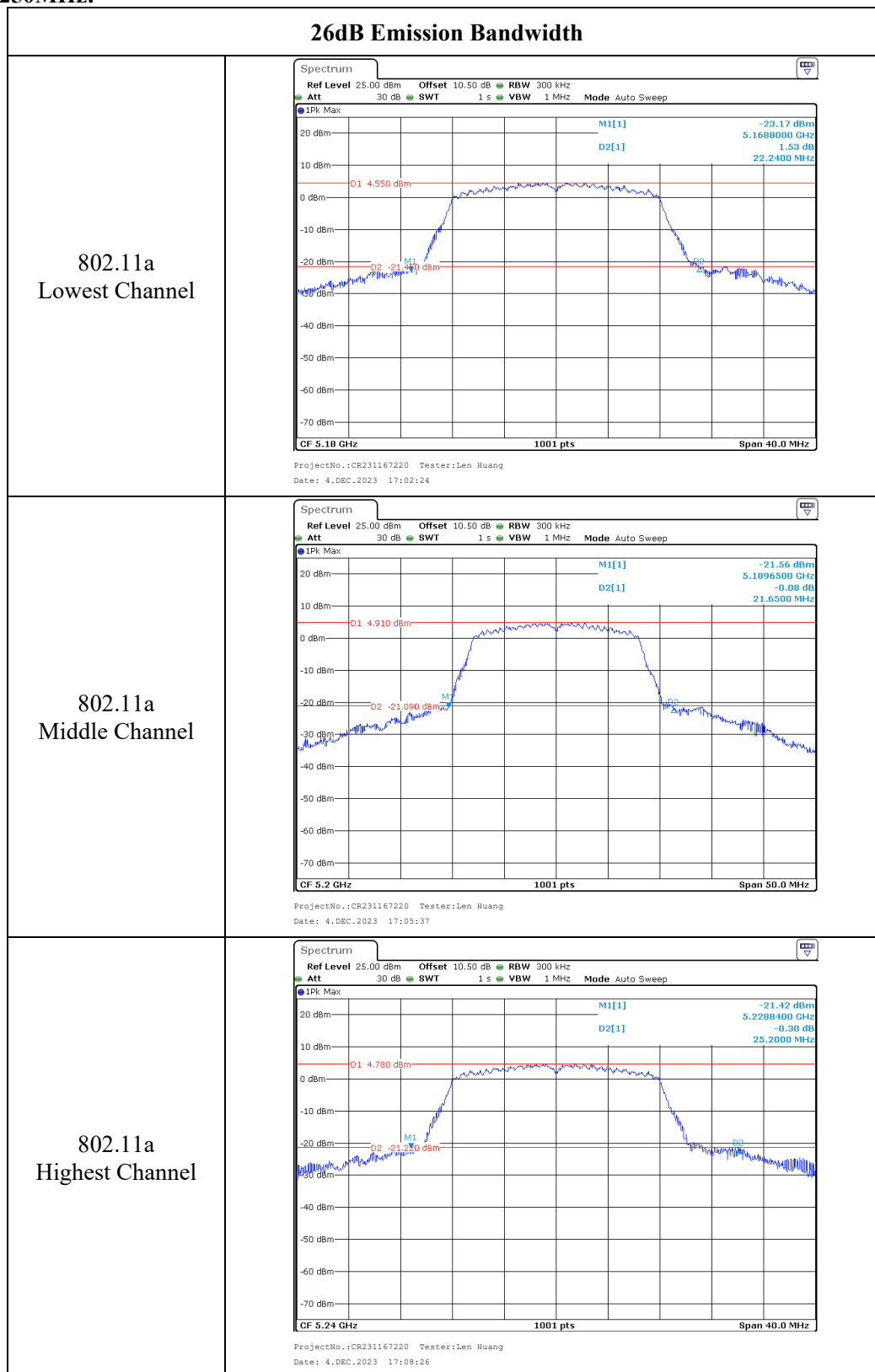
5150-5250 MHz:

Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5180	22.24	17.10
	5200	21.65	17.06
	5240	25.20	17.14
802.11ac vht20	5180	29.16	18.06
	5200	28.95	18.06
	5240	29.45	18.10
802.11ac vht40	5190	41.28	36.28
	5230	41.22	36.36
802.11ac vht80	5210	81.77	75.28
Note: The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.			

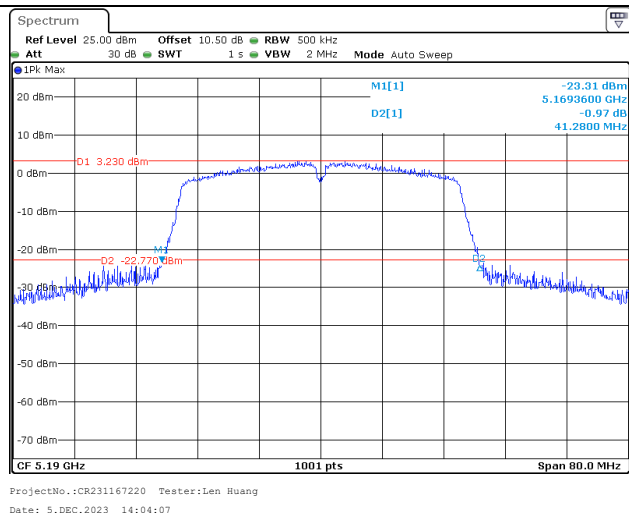
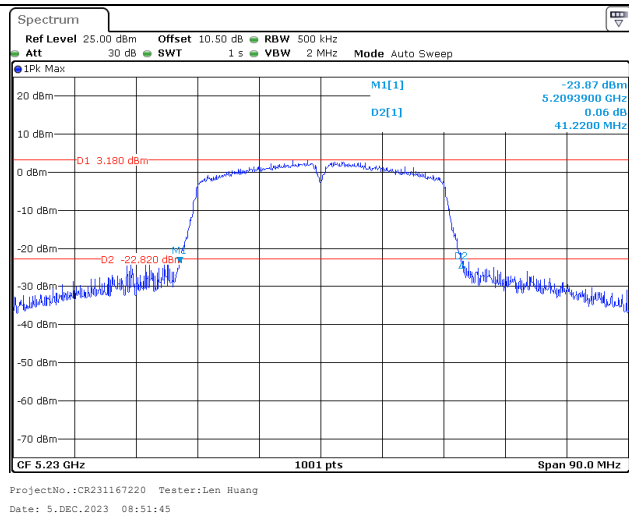
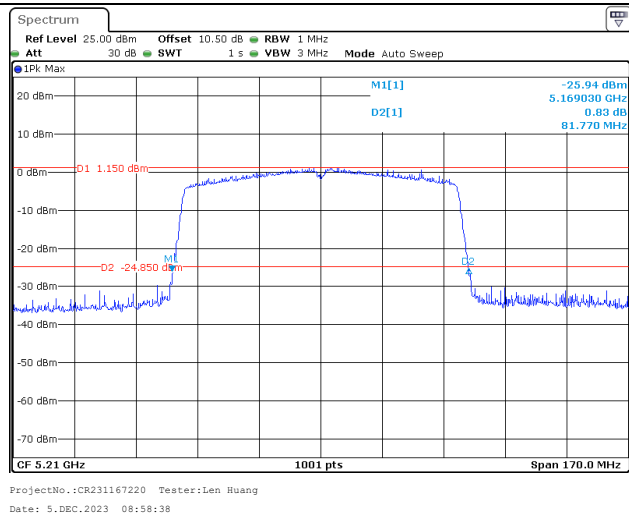
5725-5850 MHz:

Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5745	16.40	17.18
	5785	16.44	17.46
	5825	16.40	17.46
802.11ac vht20	5745	17.68	18.10
	5785	17.64	18.10
	5825	17.64	18.18
802.11ac vht40	5755	36.24	36.60
	5795	36.24	36.60
802.11ac vht80	5775	76.20	75.60
Note: 6dB Emission Bandwidth Limit: ≥ 0.5 MHz The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.			

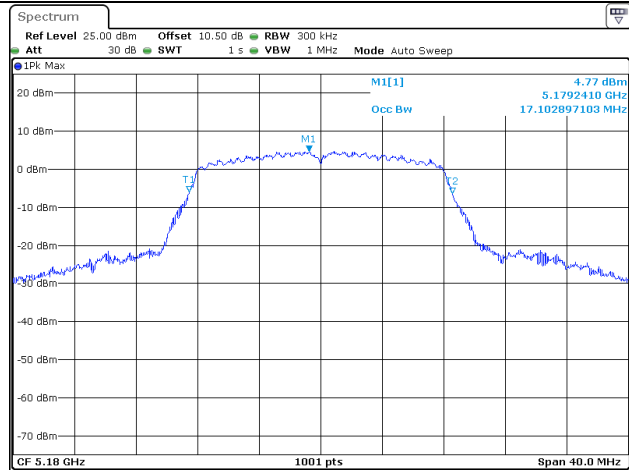
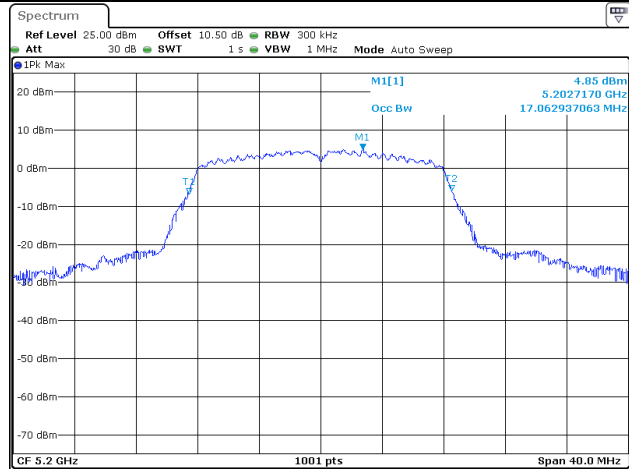
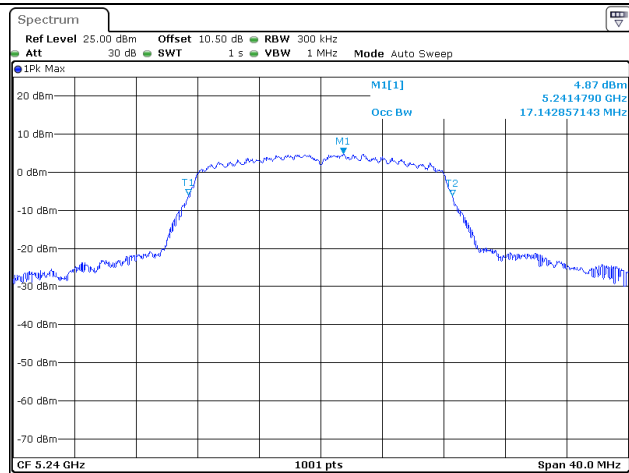
5150-5250MHz:



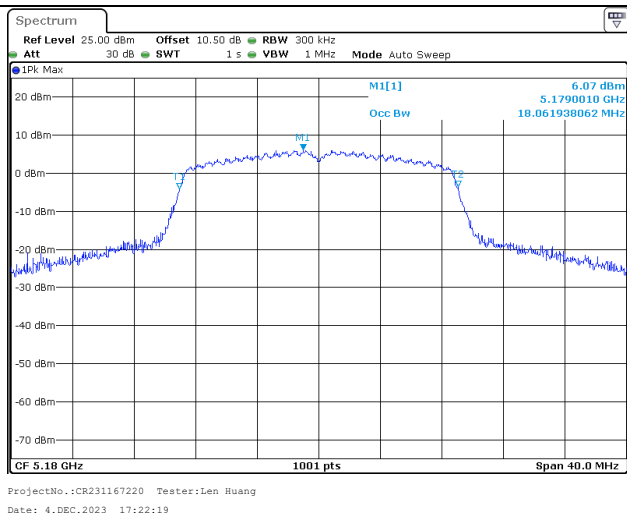
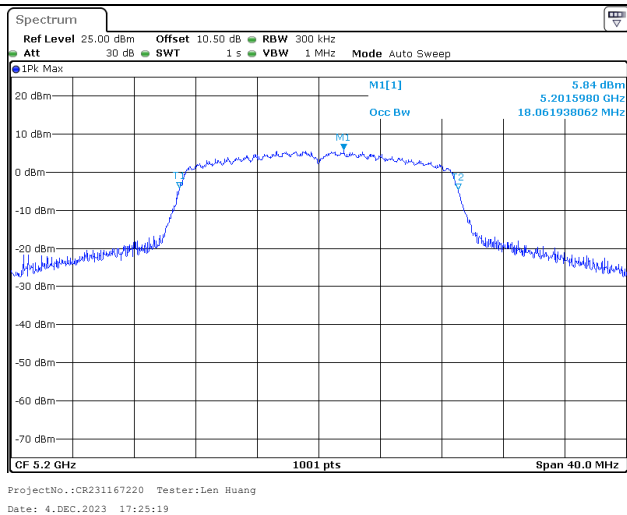
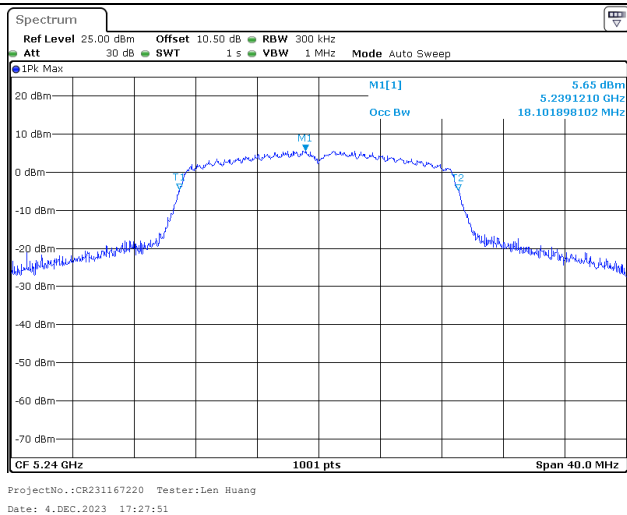
26dB Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

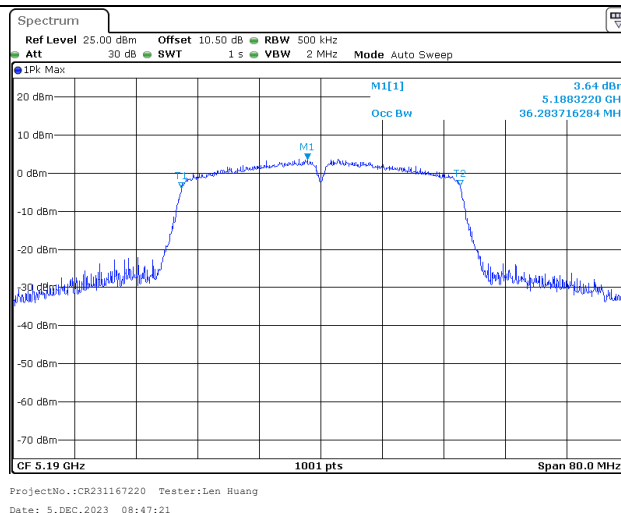
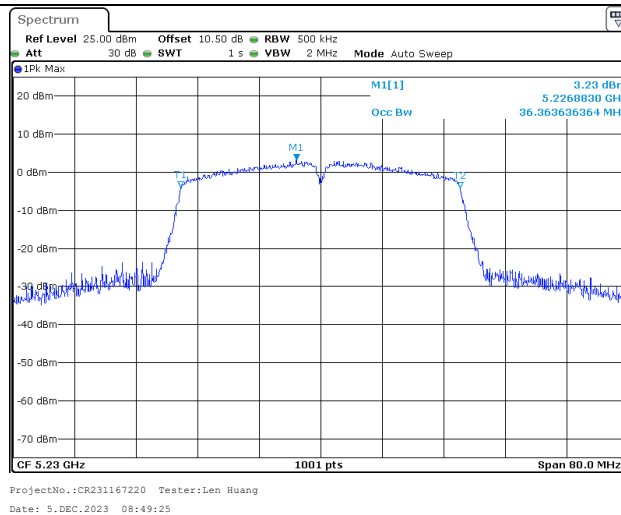
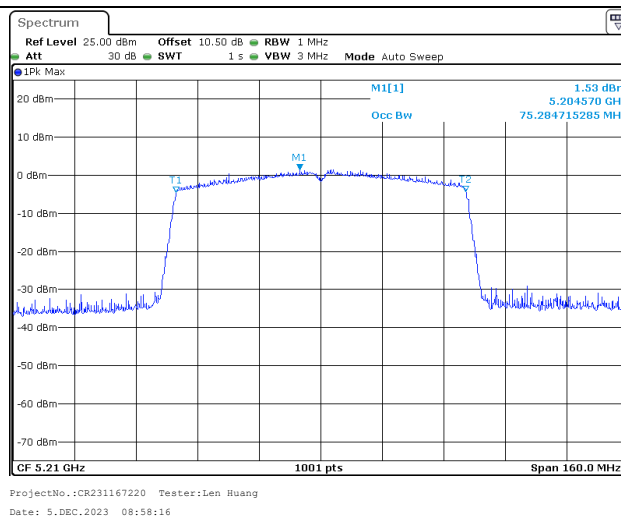
99% Emission Bandwidth

802.11a
Lowest ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 4.DEC.2023 17:01:38802.11a
Middle ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 4.DEC.2023 17:04:45802.11a
Highest ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 4.DEC.2023 17:07:52

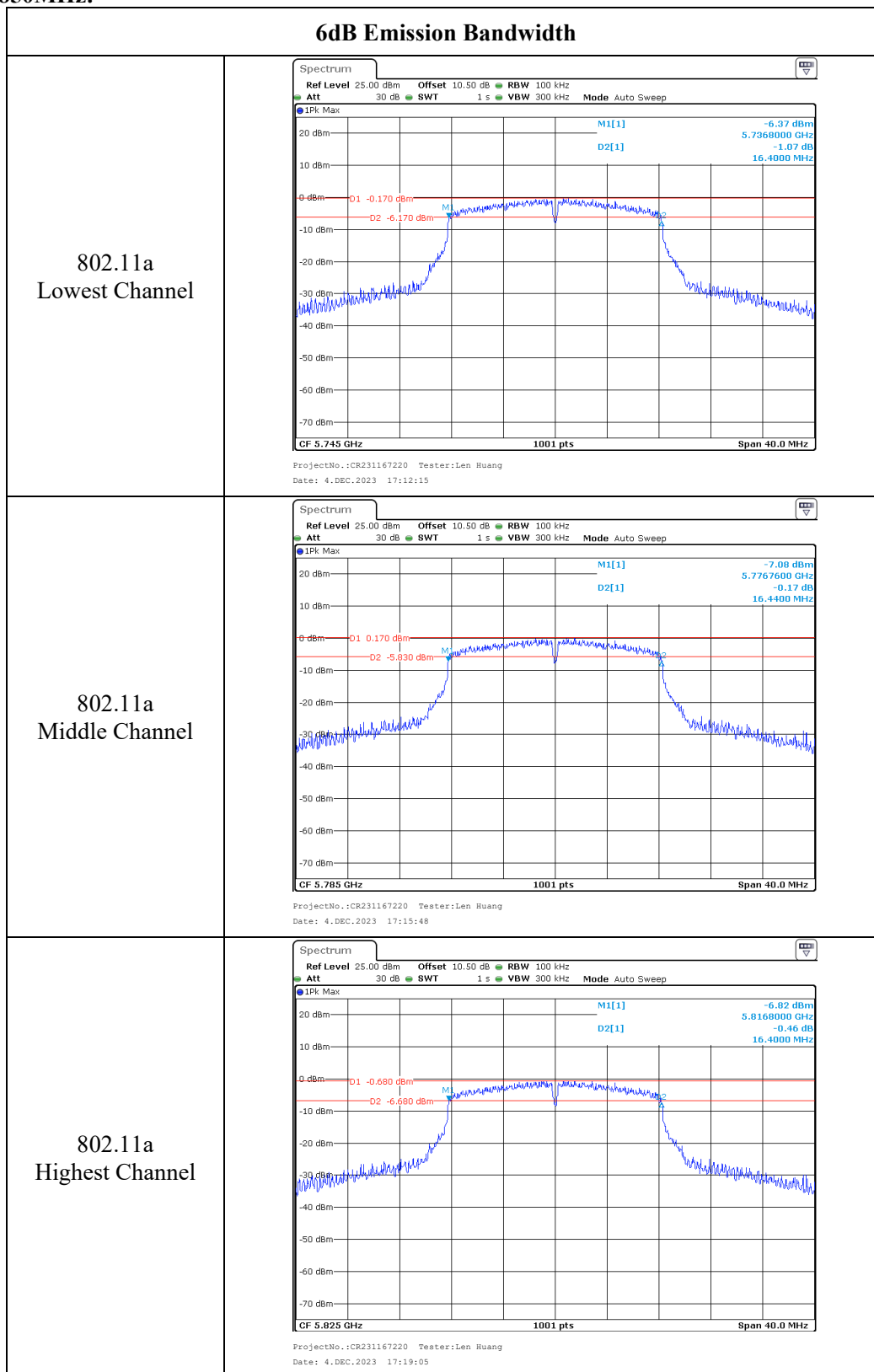
99% Emission Bandwidth

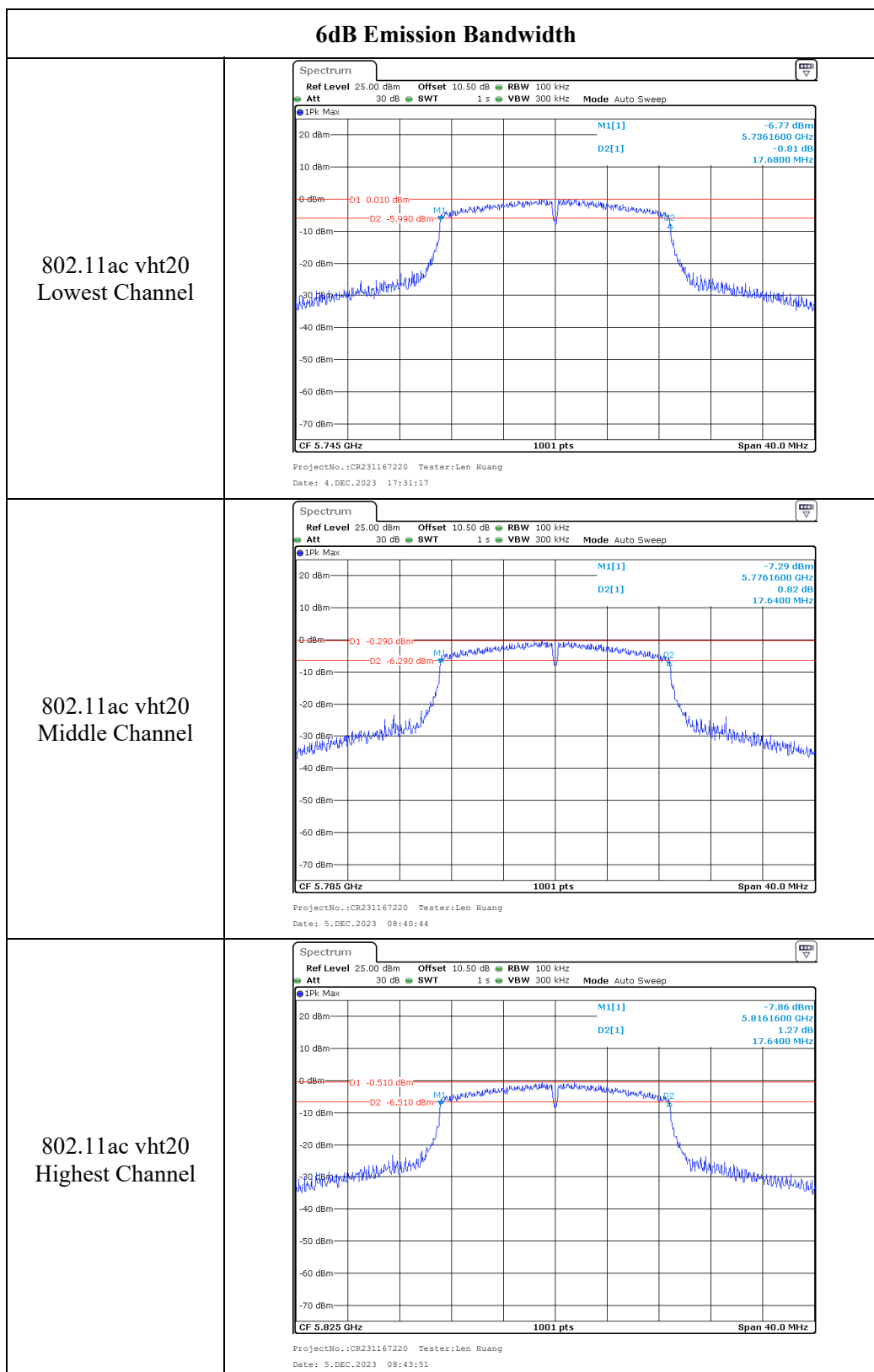
802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

99% Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

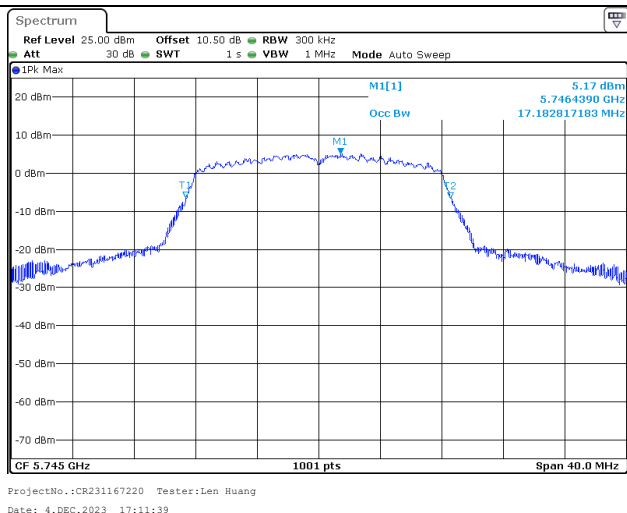
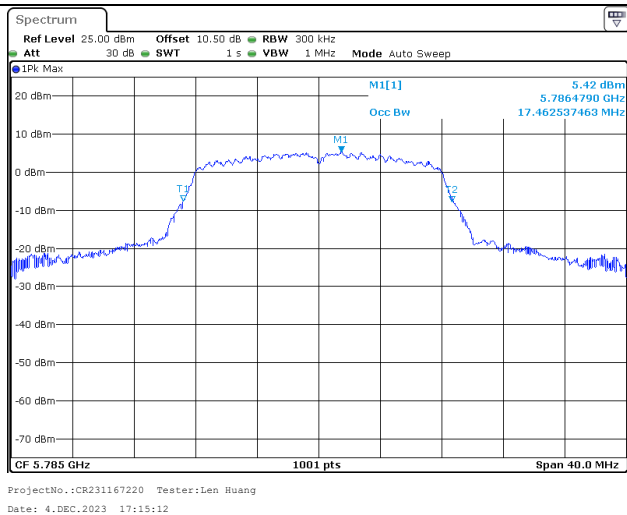
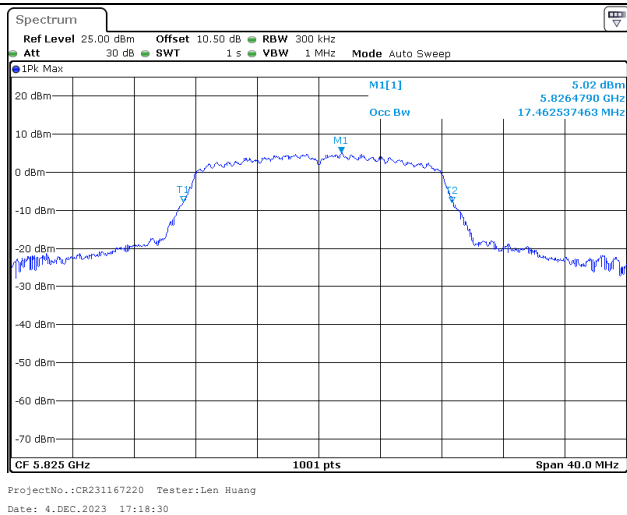
5725-5850MHz:



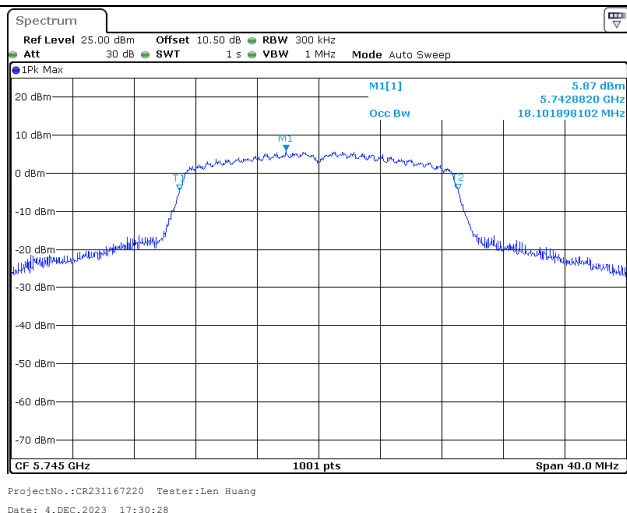
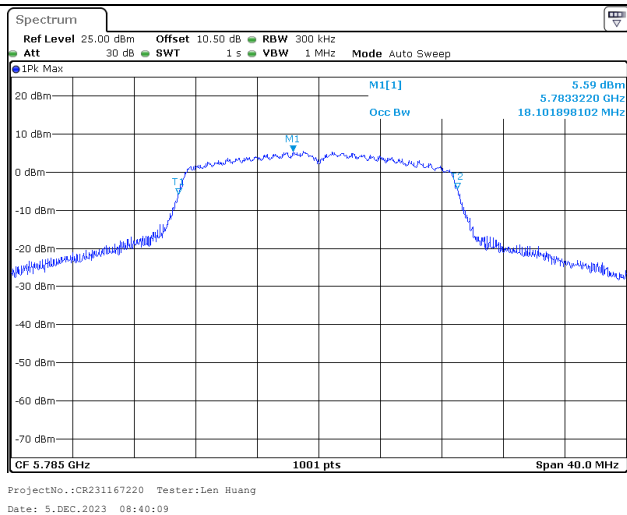
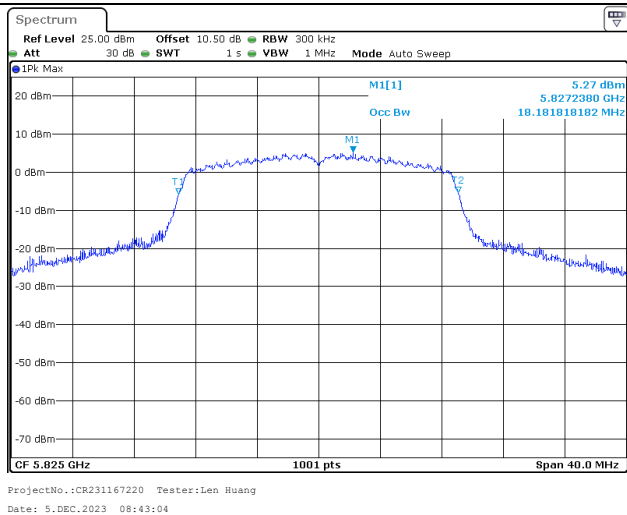


6dB Emission Bandwidth	
802.11ac vht40 Lowest Channel	<div><div>Spectrum</div><div><div>Ref Level 25.00 dBm</div><div>Offset 10.50 dB</div><div>RBW 100 kHz</div><div>Att 30 dB</div><div>SWT 1 s</div><div>VBW 300 kHz</div><div>Mode Auto Sweep</div></div><div><div>1Pk Max</div><div>M1[1] -9.95 dBm</div><div>D2[1] 5.7367600 GHz</div><div>0.55 dB</div><div>36.2400 MHz</div></div><div><div>D1 -2.810 dBm</div><div>D2 -8.810 dBm</div></div><div><div>CF 5.755 GHz</div><div>1001 pts</div><div>Span 80.0 MHz</div></div><div>ProjectNo.:CR231167220 Tester:Len Huang</div><div>Date: 5.DEC.2023 08:53:37</div></div>
802.11ac vht40 Highest Channel	<div><div>Spectrum</div><div><div>Ref Level 25.00 dBm</div><div>Offset 10.50 dB</div><div>RBW 100 kHz</div><div>Att 30 dB</div><div>SWT 1 s</div><div>VBW 300 kHz</div><div>Mode Auto Sweep</div></div><div><div>1Pk Max</div><div>M1[1] -11.58 dBm</div><div>D2[1] 5.7767600 GHz</div><div>1.01 dB</div><div>36.2400 MHz</div></div><div><div>D1 -3.520 dBm</div><div>D2 -9.520 dBm</div></div><div><div>CF 5.795 GHz</div><div>1001 pts</div><div>Span 80.0 MHz</div></div><div>ProjectNo.:CR231167220 Tester:Len Huang</div><div>Date: 5.DEC.2023 08:55:33</div></div>
802.11ac vht80 Middle Channel	<div><div>Spectrum</div><div><div>Ref Level 25.00 dBm</div><div>Offset 10.50 dB</div><div>RBW 100 kHz</div><div>Att 30 dB</div><div>SWT 1 s</div><div>VBW 300 kHz</div><div>Mode Auto Sweep</div></div><div><div>1Pk Max</div><div>M1[1] -15.57 dBm</div><div>D2[1] 5.736720 GHz</div><div>0.69 dB</div><div>76.200 MHz</div></div><div><div>D1 -8.680 dBm</div><div>D2 -4.680 dBm</div></div><div><div>CF 5.775 GHz</div><div>1001 pts</div><div>Span 120.0 MHz</div></div><div>ProjectNo.:CR231167220 Tester:Len Huang</div><div>Date: 5.DEC.2023 09:00:43</div></div>

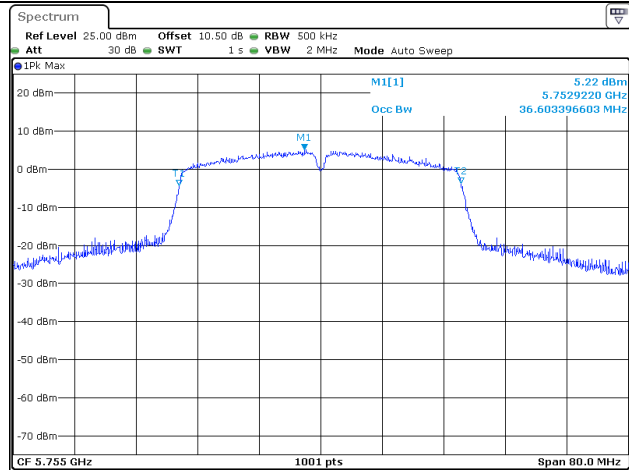
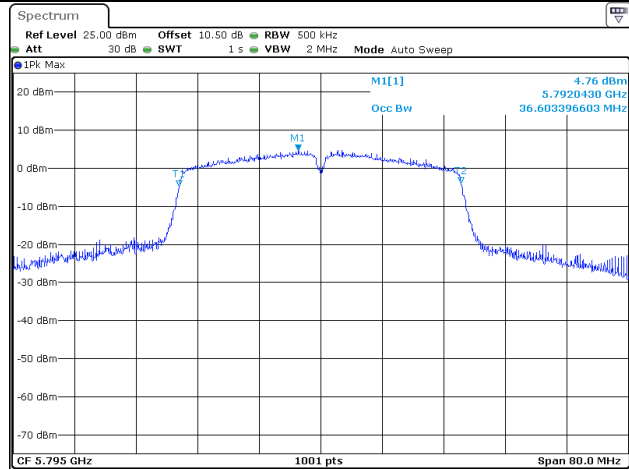
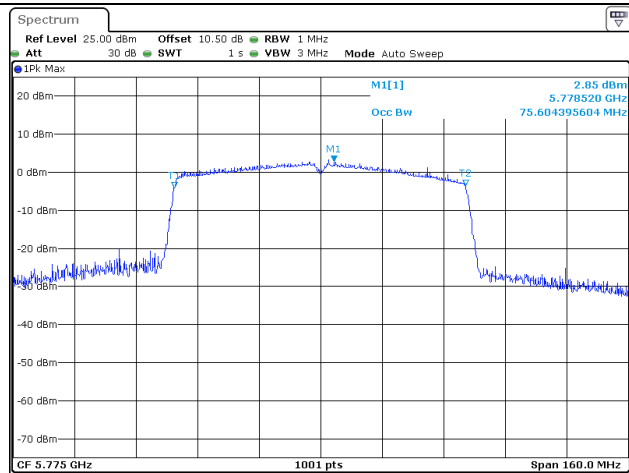
99% Emission Bandwidth

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

99% Emission Bandwidth

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

99% Emission Bandwidth

802.11ac vht40
Lowest ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 08:53:15802.11ac vht40
Highest ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 08:55:13802.11ac vht80
Middle ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 09:00:21

4.4 Maximum Conducted Output Power:

Serial Number:	2DMI-1	Test Date:	2023-11-22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.5	Relative Humidity: (%)	50	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Power Meter	ML2495A	1106009	2023/8/4	2024/8/3
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/8/4	2024/8/3
zhuoxiang	Coaxial Cable	SMA-178	211002	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	12.73	24
	5200	12.46	24
	5240	12.39	24
802.11ac vht20	5180	13.65	24
	5200	13.35	24
	5240	13.23	24
802.11ac vht40	5190	11.59	24
	5230	11.19	24
802.11ac vht80	5210	9.11	24
Note: The device is a client device.			

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power(dBm)	
		Result	Limit
802.11a	5745	12.80	30
	5785	12.82	30
	5825	12.64	30
802.11ac vht20	5745	13.29	30
	5785	13.15	30
	5825	12.57	30
802.11ac vht40	5755	13.22	30
	5795	12.77	30
802.11ac vht80	5775	10.62	30

4.5 Maximum power spectral density:

Serial Number:	2DMI-1	Test Date:	2023/12/4-2023/12/5
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.2-26.8	Relative Humidity: (%)	48-49	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	102259	2023-04-18	2024-04-17
zhuoxiang	Coaxial Cable	SMA-178	211002	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)	Reading dBm/MHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm/MHz)	
				Result	Limit
802.11a	5180	1.84	/	1.84	11
	5200	1.87	/	1.87	11
	5240	2.18	/	2.18	11
802.11ac vht20	5180	3.45	/	3.45	11
	5200	2.78	/	2.78	11
	5240	2.36	/	2.36	11
802.11ac vht40	5190	-1.91	/	-1.91	11
	5230	-2.31	/	-2.31	11
802.11ac vht80	5210	-7.77	/	-7.77	11

Note:

The device is a client device.

Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 was used for PSD test.

5725-5850 MHz:

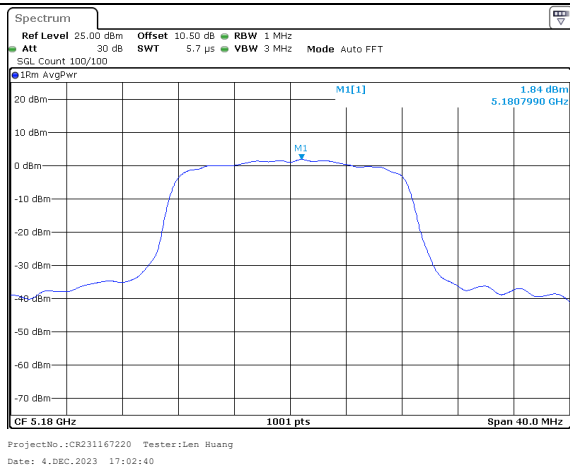
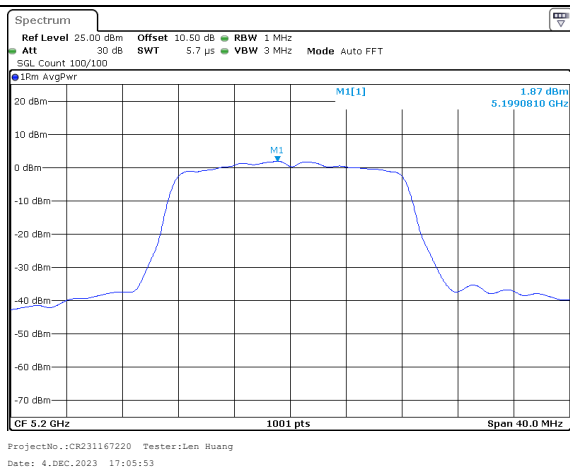
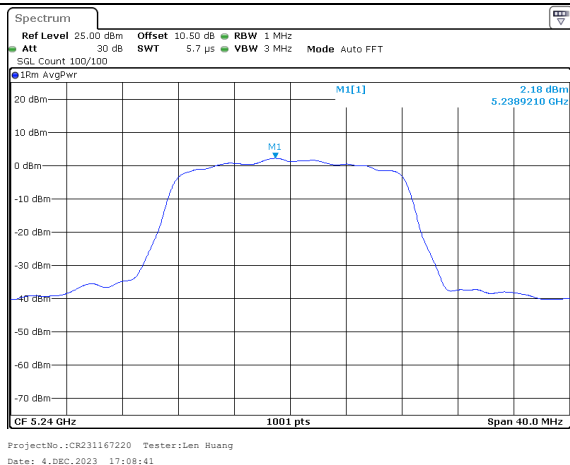
Test Modes	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor (dB)	Maximum Power Spectral Density (dBm/500kHz)	
				Result	Limit
802.11a	5745	-0.69	/	-0.69	30
	5785	-0.49	/	-0.49	30
	5825	-0.61	/	-0.61	30
802.11ac vht20	5745	-0.12	/	-0.12	30
	5785	-0.69	/	-0.69	30
	5825	-1.23	/	-1.23	30
802.11ac vht40	5755	-3.39	/	-3.39	30
	5795	-3.80	/	-3.80	30
802.11ac vht80	5775	-9.10	/	-9.10	30

Note:

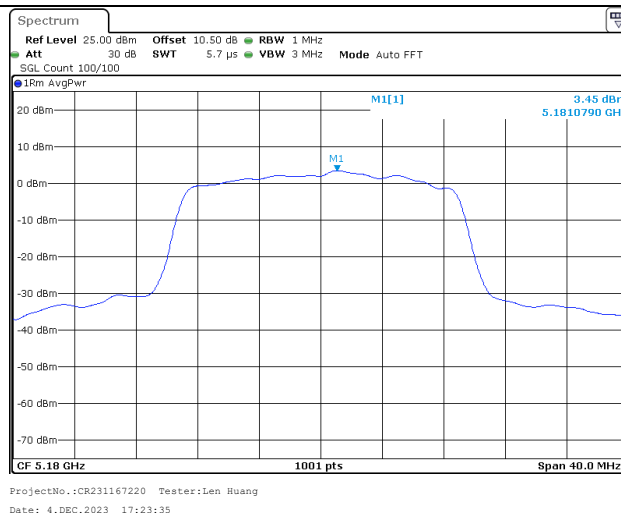
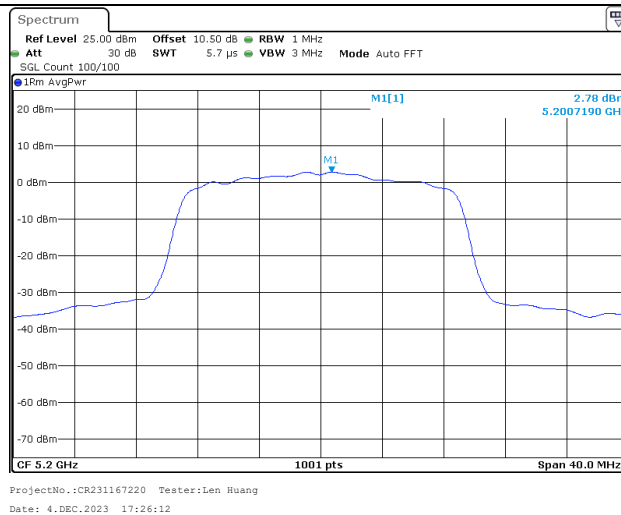
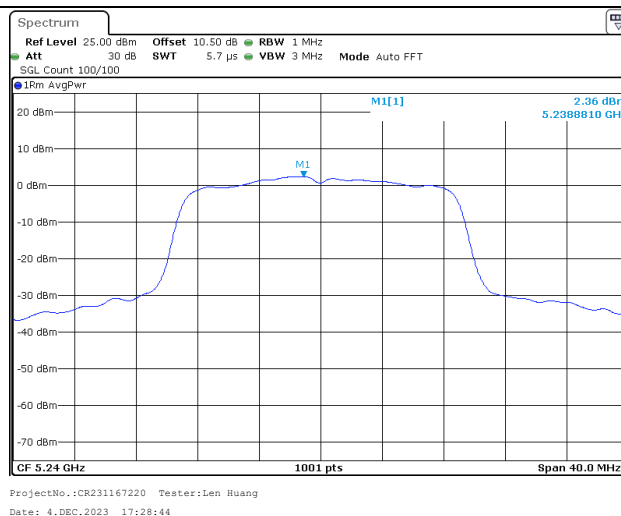
Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 was used for PSD test.

5150-5250MHz:

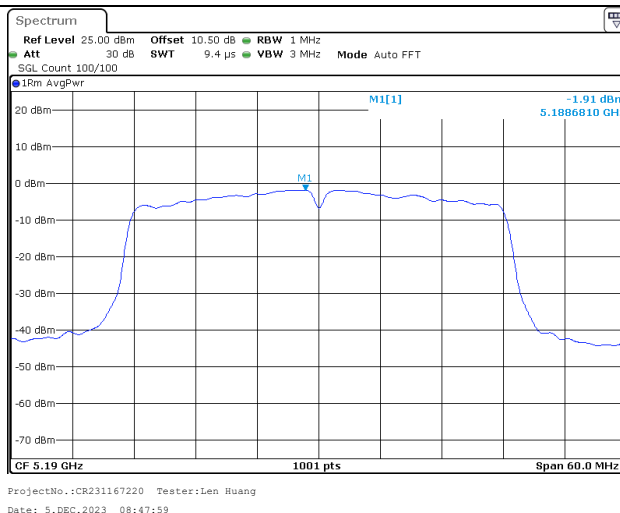
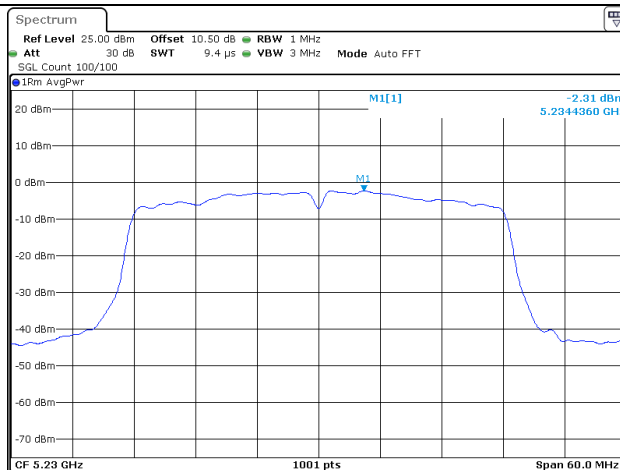
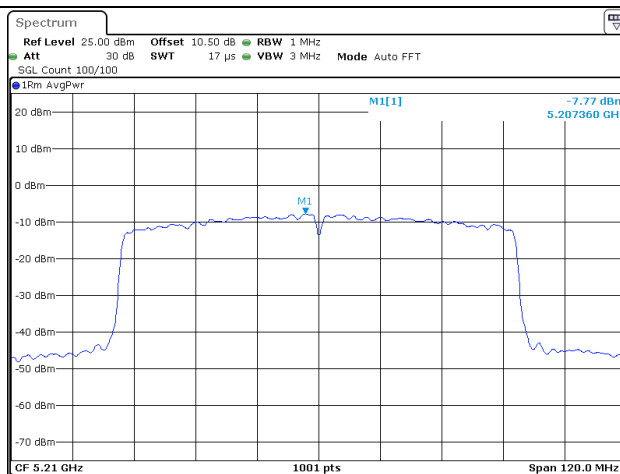
Maximum power spectral density

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

Maximum power spectral density

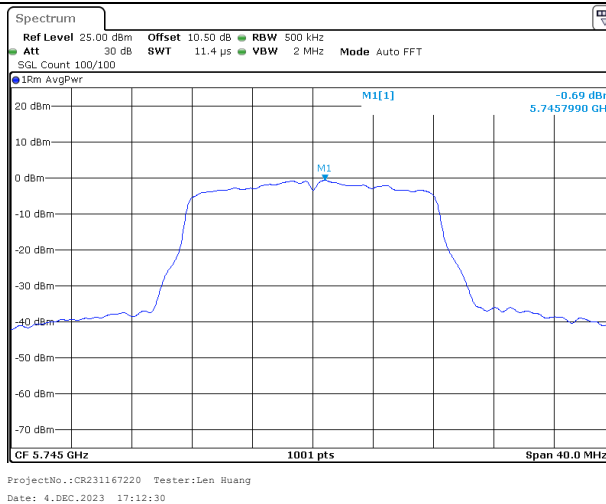
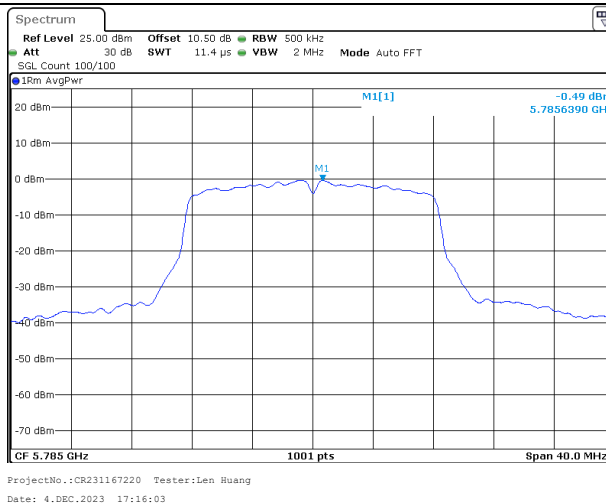
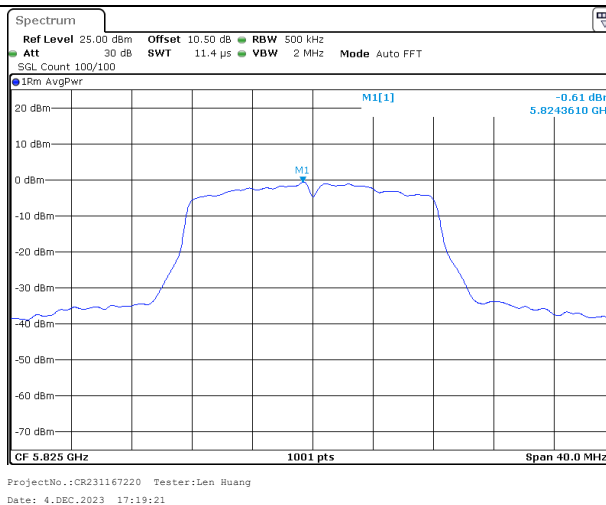
802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

Maximum power spectral density

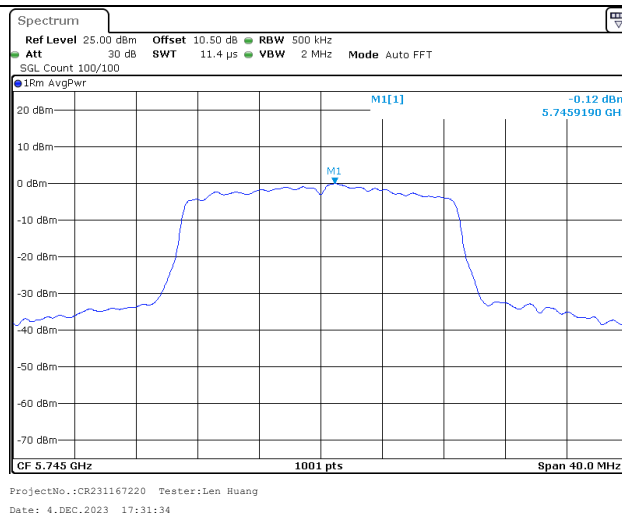
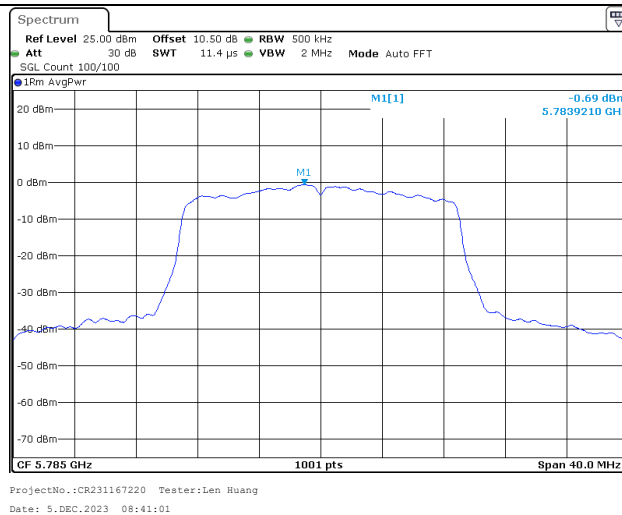
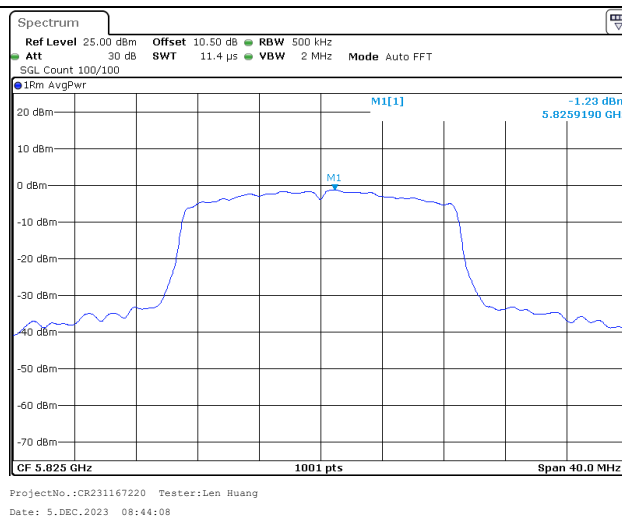
802.11ac vht40
Lowest ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 08:47:59802.11ac vht40
Highest ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 08:50:02802.11ac vht80
Middle ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 08:58:54

5725-5850MHz

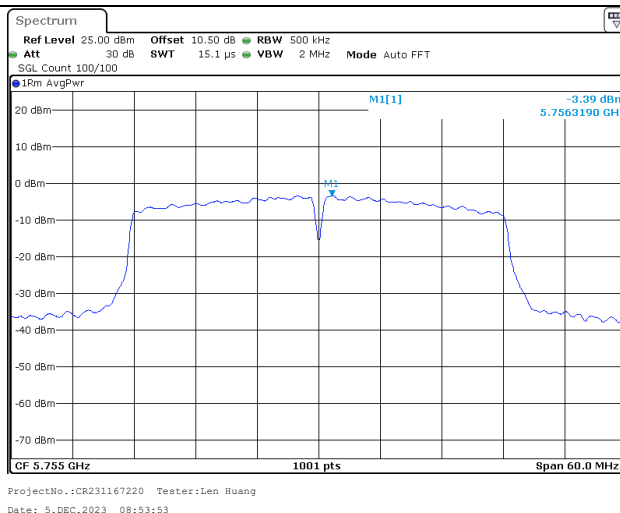
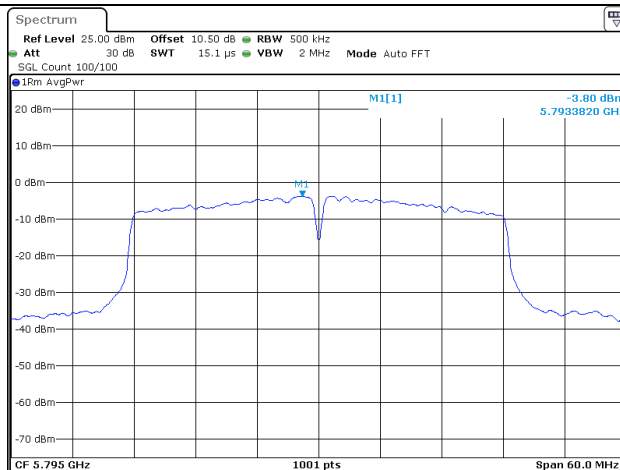
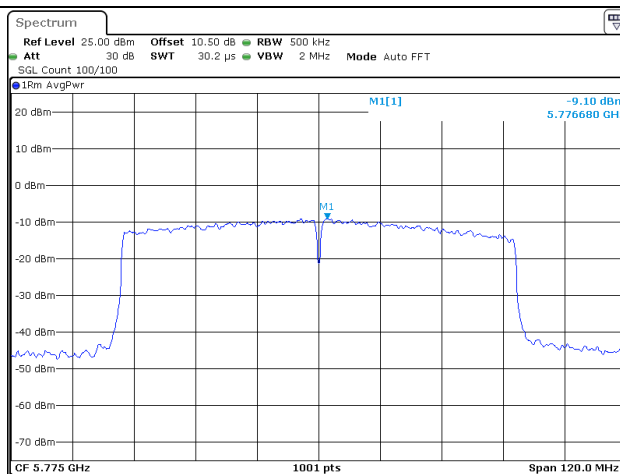
Maximum power spectral density

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

Maximum power spectral density

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

Maximum power spectral density

802.11ac vht40
Lowest ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 08:53:53802.11ac vht40
Highest ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 08:55:51802.11ac vht80
Middle ChannelProjectNo.:CR231167220 Tester:Len Huang
Date: 5.DEC.2023 09:00:59

4.6 Duty Cycle:

Serial Number:	2DMI-1	Test Date:	2023/12/4-2023/12/5
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	26.2-26.8	Relative Humidity: (%)	48-49	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	102259	2023-04-18	2024-04-17
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

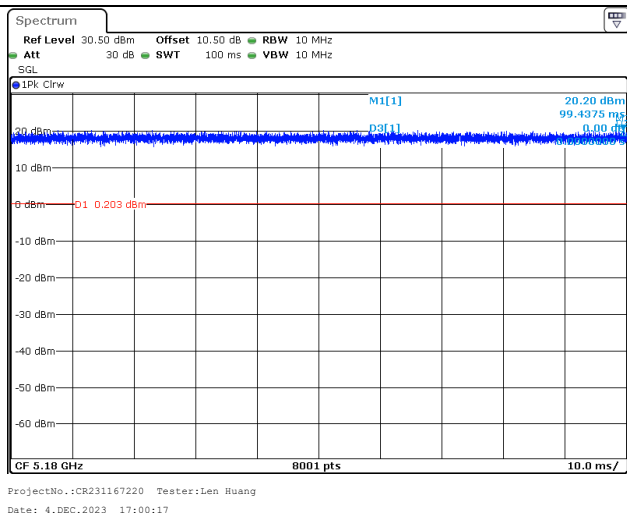
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

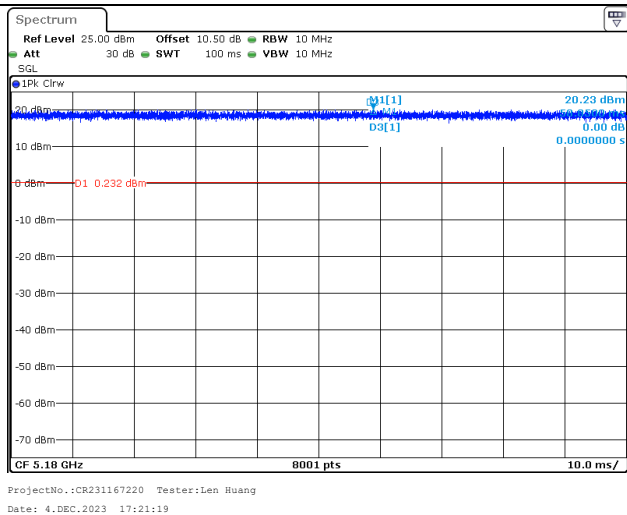
Test Modes	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T (Hz)	Duty Cycle Factor (dB)	VBW Setting (Hz)
802.11a	100	100	100.00	/	/	10
802.11ac vht20	100	100	100.00	/	/	10
802.11ac vht40	100	100	100.00	/	/	10
802.11ac vht80	100	100	100.00	/	/	10

Duty Cycle

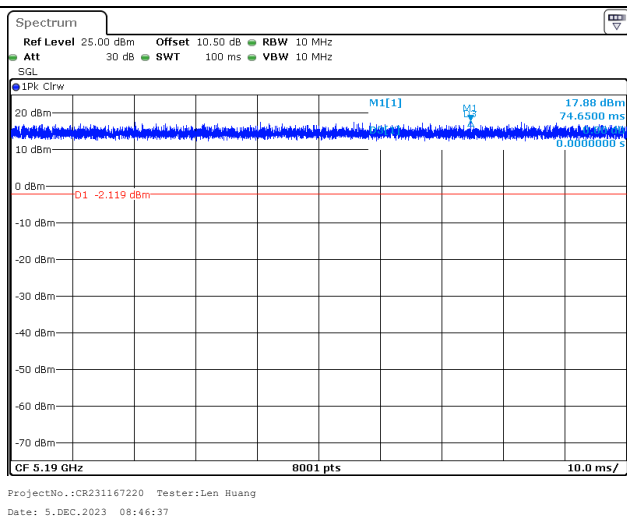
802.11a

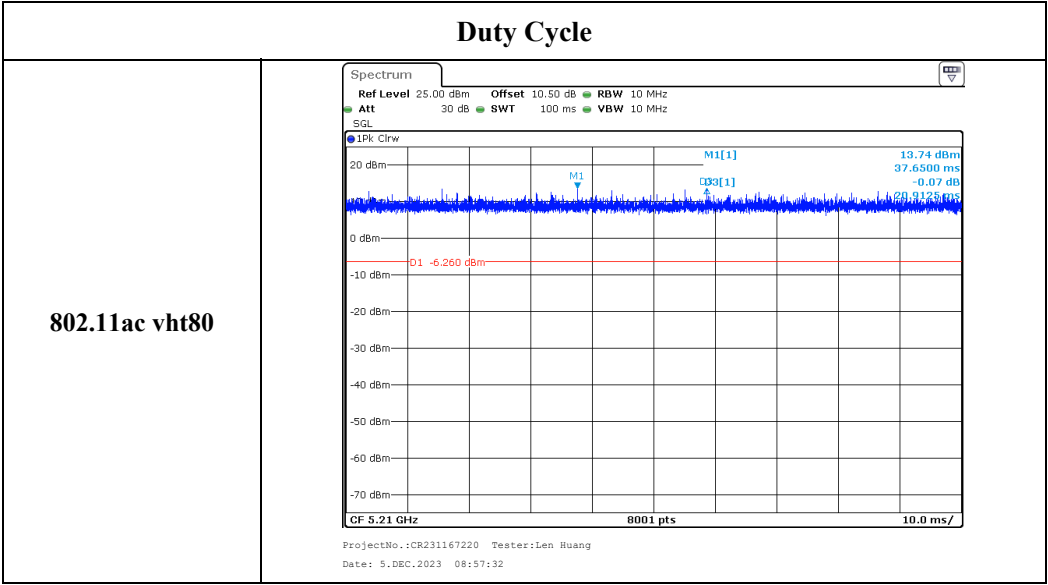


802.11ac vht20



802.11ac vht40





5. EUT PHOTOGRAPHS

Please refer to the attachment CR231167220-EXP EUT EXTERNAL PHOTOGRAPHS and
CR231167220-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231167220-00D-TSP TEST SETUP PHOTOGRAPHS.

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