



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: INFINIX MOBILITY LIMITED

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

FCC ID: 2AIZN-X6850

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: CR231061271-00E

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Reviewed By: Julie Tan
Title: RF Engineer

Julie Tan

Approved By: Sun Zhong
Title: Manager

Sun Zhong

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)
No. 113, Pingkang Road, Dalang Town, Dongguan,
Guangdong, China
Tel: +86-769-82016888

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	CR231061271-00E	Original Report	2024/1/12

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	Mobile Phone
EUT Model^{Note}:	X6850
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) 5775MHz(802.11ac vht80)
Maximum Average Output Power (Conducted):	13.01dBm (5150-5250 MHz) 12.97dBm (5725-5850 MHz)
Modulation Type:	OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM
Rated Input Voltage:	DC 3.91V from battery or 4-20V from adapter
Serial Number:	AC line conducted emissions and Radiated Spurious Emissions: 2CGI-1(Normal version) RF Conducted: 2CGI-2(Normal version)
EUT Received Date:	2023/10/21
EUT Received Status:	Good
Note: This model has two versions: Normal version and Lighting version, the two versions are electrically identical, please refer to the declaration letter for more detail, which was provided by manufacturer. All tests were performed with normal version, since it is the worst model per BLE test report.	

1.1.2 Operation Frequency Detail:

For 802.11a/n ht20/ac vht20:

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

Per section 15.31(m), the above frequencies in bold were performed the test.

For 802.11n ht40/ac vht40:

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

Per section 15.31(m), the above frequencies in bold were performed the test.

For 802.11ac vht80:

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

Per section 15.31(m), the above frequencies in bold were performed the test.

1.1.3 Antenna Information Detail▲:

Antenna	Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Chain 0(ANT 12)	Dongguan Guangzheng Mold Plastic Co., Ltd	LDS	50	5.15~5.25GHz& 5.725~5.85GHz	-2.31dBi
Chain 1(ANT 14)				5.15~5.25GHz& 5.725~5.85GHz	-3.19dBi

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 #1	Unknown	U700XSA	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
Adapter #2	Unknown	U700XSA	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

Note: the two adapters are electrically identical, but different manufacturers ,only adapter 1# was tested for this report since it is the worst adapter per BLE test report.

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 devices have two Bluetooth/WiFi Antennas and only one RF path front RF switcher, the RF switcher was used to control the antenna used, depend on the system software to determine which antenna have a better performance. Antenna port conducted tests only was performed at chain 0 except the conducted output power was checked with two antenna output. 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	14.5
	Middle	5200	6Mbps	14.5
	Highest	5240	6Mbps	14.5
802.11n ht20	Lowest	5180	MCS0	14.5
	Middle	5200	MCS0	14.5
	Highest	5240	MCS0	14.5
802.11n ht40	Lowest	5190	MCS0	14.5
	Highest	5230	MCS0	14.5
802.11ac vht80	Middle	5210	MCS0	14.5
5725-5850 MHz Band:				
Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting
802.11a	Lowest	5745	6Mbps	16
	Middle	5785	6Mbps	16
	Highest	5825	6Mbps	16
802.11n ht20	Lowest	5745	MCS0	16
	Middle	5785	MCS0	16
	Highest	5825	MCS0	16
802.11n ht40	Lowest	5755	MCS0	16
	Highest	5795	MCS0	16
802.11ac vht80	Middle	5775	MCS0	16
Note: 1. The system support 802.11a/n ht20/n ht40/ac vht20/vht40/vht80, the vht20/vht40 were reduced since the identical parameters with 802.11 n ht20 and n ht40. 2. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.				

1.2.2 Support Equipment List and Details

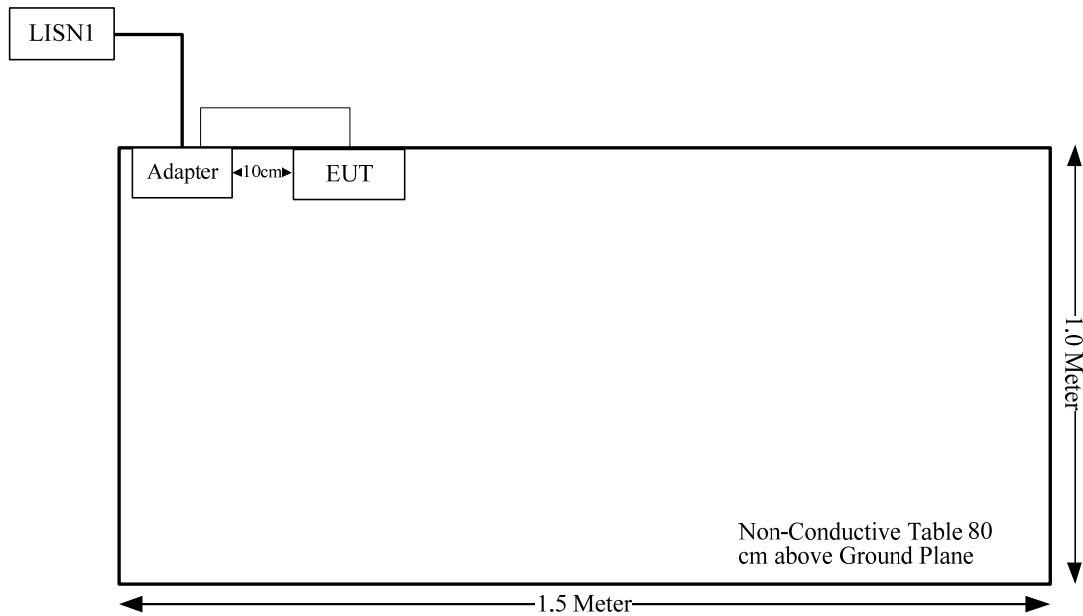
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

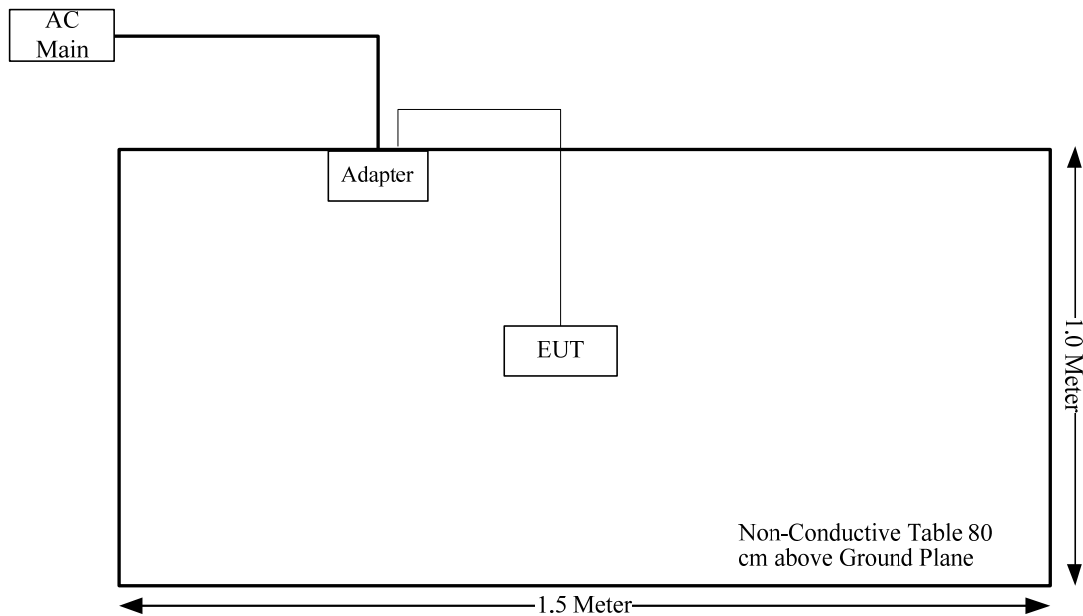
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	0.8	Adapter	EUT

1.2.4 Block Diagram of Test Setup

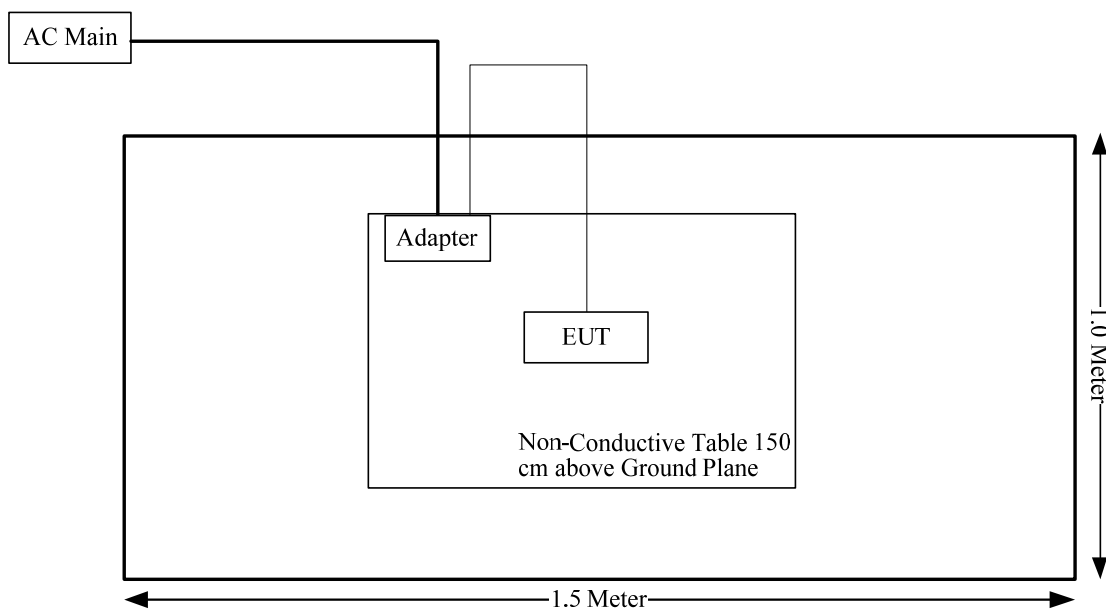
AC line conducted emissions:



Radiated Spurious Emissions:
Below 1G:



Above 1G:



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:

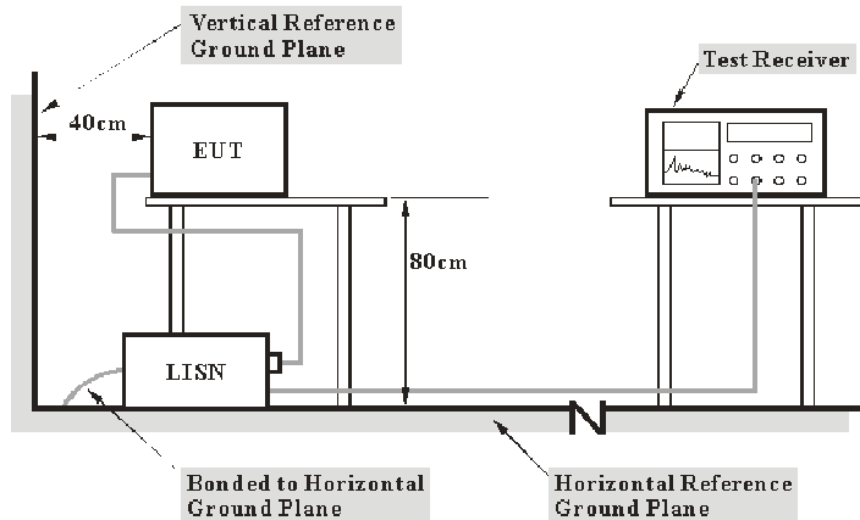
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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

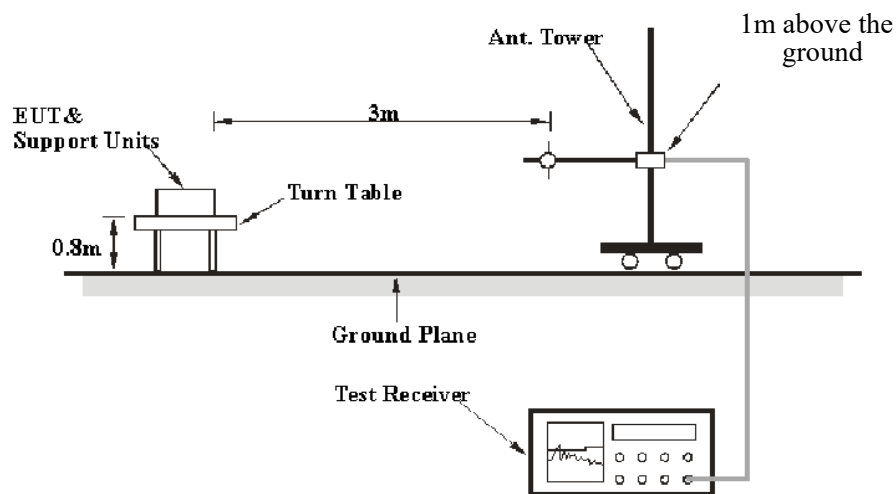
FCC §15.407 (b);

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:

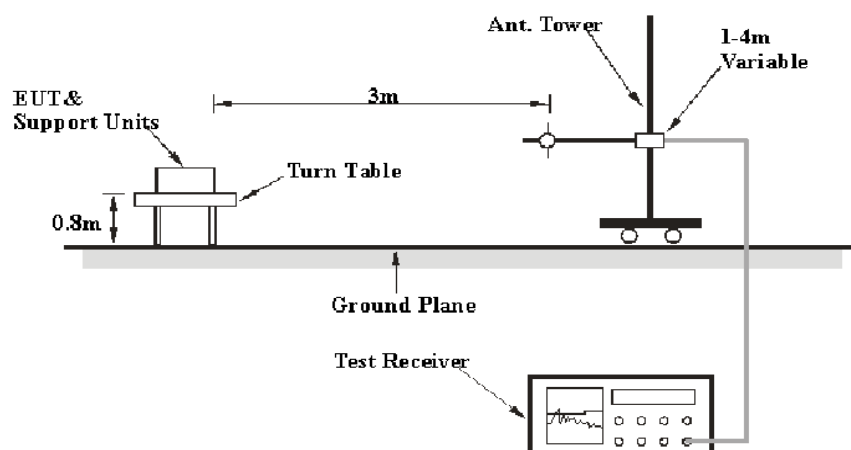
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.
 - (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of - 27 dBm/MHz.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

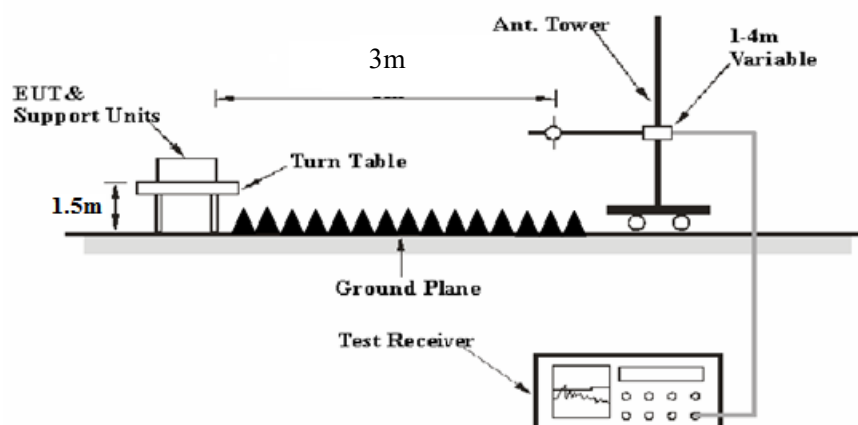
9kHz~30MHz:



30MHz~1GHz:



1-40 GHz:



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

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

The spacing between the peripherals was 10 cm.

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

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9kHz to 40 GHz.

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

9kHz-1000MHz:

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

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

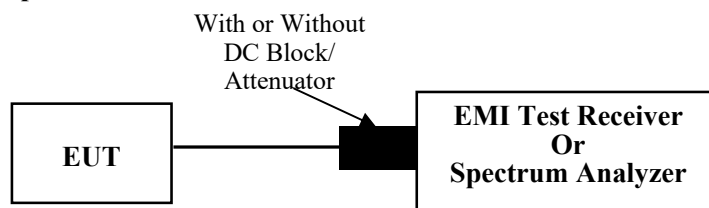
FCC §15.407 (a),(h)

(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

- 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.

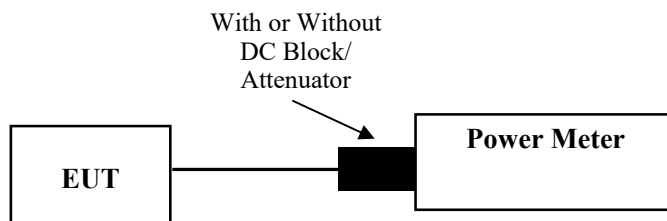
FCC §15.407(a) (2)

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 12.3.3.1

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.

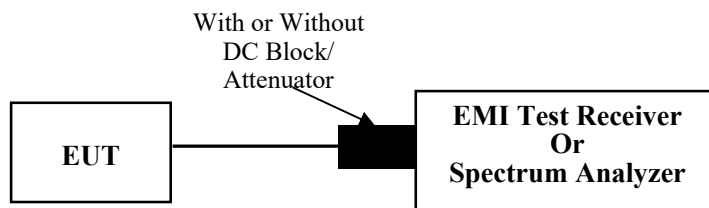
FCC §15.407(a) (2)

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 should be applied.

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

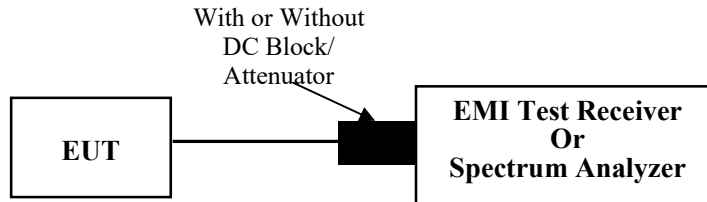
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

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.

3.6 Duty Cycle

3.6.1 EUT Setup



3.6.2 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 $T \leq 16.7 \mu s$.)

3.7 Antenna Requirement

3.7.1 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.

3.7.2 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:	2CGI-1	Test Date:	2023/11/8
Test Site:	CE	Test Mode:	Transmitting maximum output power mode(802.11a mode 5180MHz Chain 0) was tested
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

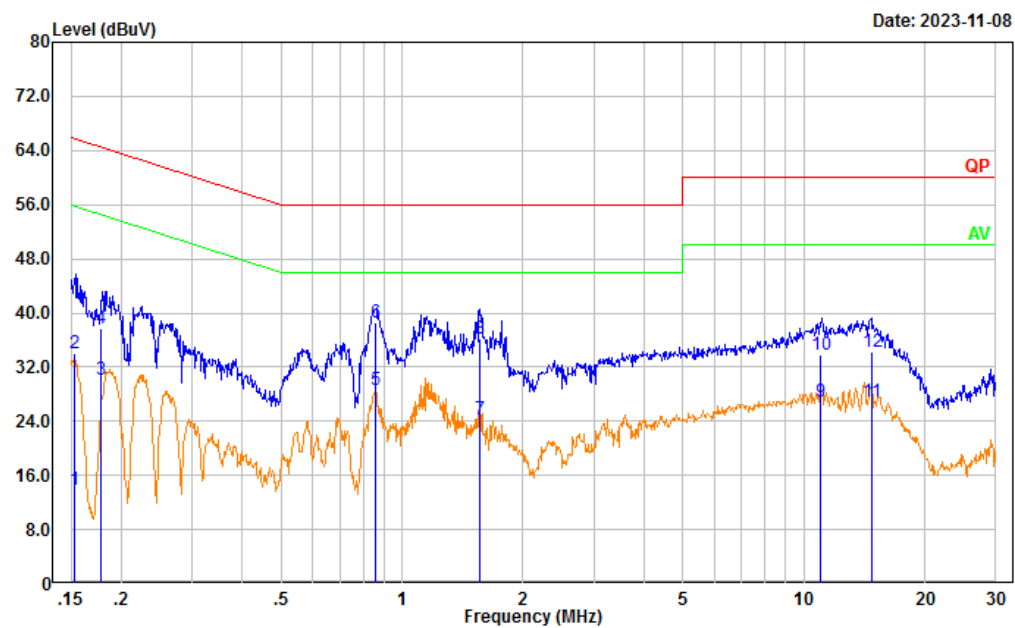
Temperature: (°C)	25.7	Relative Humidity: (%)	53	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

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

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

Project No.: CR231061271-RF
 Tester: David Huang
 Port: Line
 Note: M1 Transmitting (Sample #1&Adapter#1 5G WIFI)



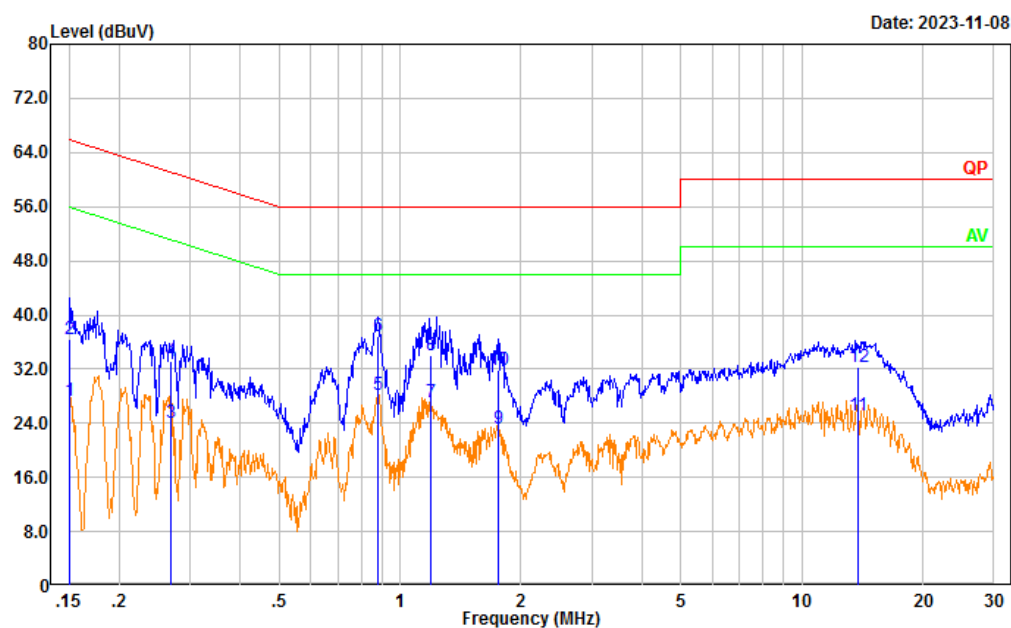
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.153	4.32	9.61	13.93	55.81	41.88	Average
2	0.153	24.42	9.61	34.03	65.81	31.78	QP
3	0.178	20.57	9.61	30.18	54.60	24.42	Average
4	0.178	28.10	9.61	37.71	64.60	26.89	QP
5	0.862	18.94	9.62	28.56	46.00	17.44	Average
6	0.862	28.94	9.62	38.56	56.00	17.44	QP
7	1.565	14.71	9.63	24.34	46.00	21.66	Average
8	1.565	26.58	9.63	36.21	56.00	19.79	QP
9	10.959	17.31	9.67	26.98	50.00	23.02	Average
10	10.959	24.21	9.67	33.88	60.00	26.12	QP
11	14.749	17.30	9.69	26.99	50.00	23.01	Average
12	14.749	24.51	9.69	34.20	60.00	25.80	QP

Project No.: CR231061271-RF

Tester: David Huang

Port: neutral

Note: M1 Transmitting (Sample #1&Adapter#1 5G WIFI)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.150	17.74	9.61	27.35	55.99	28.64	Average
2	0.150	26.83	9.61	36.44	65.99	29.55	QP
3	0.270	14.40	9.61	24.01	51.13	27.12	Average
4	0.270	23.55	9.61	33.16	61.13	27.97	QP
5	0.879	18.51	9.62	28.13	46.00	17.87	Average
6	0.879	27.17	9.62	36.79	56.00	19.21	QP
7	1.193	17.48	9.62	27.10	46.00	18.90	Average
8	1.193	24.51	9.62	34.13	56.00	21.87	QP
9	1.756	13.56	9.63	23.19	46.00	22.81	Average
10	1.756	22.35	9.63	31.98	56.00	24.02	QP
11	13.801	15.55	9.68	25.23	50.00	24.77	Average
12	13.801	22.59	9.68	32.27	60.00	27.73	QP

4.2 Radiation Spurious Emissions

Serial Number:	2CGI-1	Test Date:	2023/11/9~2023/11/19
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Vic Du ,Tao Zhu	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.2~26.5	Relative Humidity: (%)	54~62	ATM Pressure: (kPa)	100.9~102.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
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
Above 1GHz					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2025/2/23
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5
E-Microwave	Band Rejection Filter	5150-5850MHz	OE01902423	2023/8/6	2024/8/5
Mini Circuits	High Pass Filter	VHF-6010+	31119	2023/8/6	2024/8/5
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4

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

Test Data:

Please refer to the below table and plots.

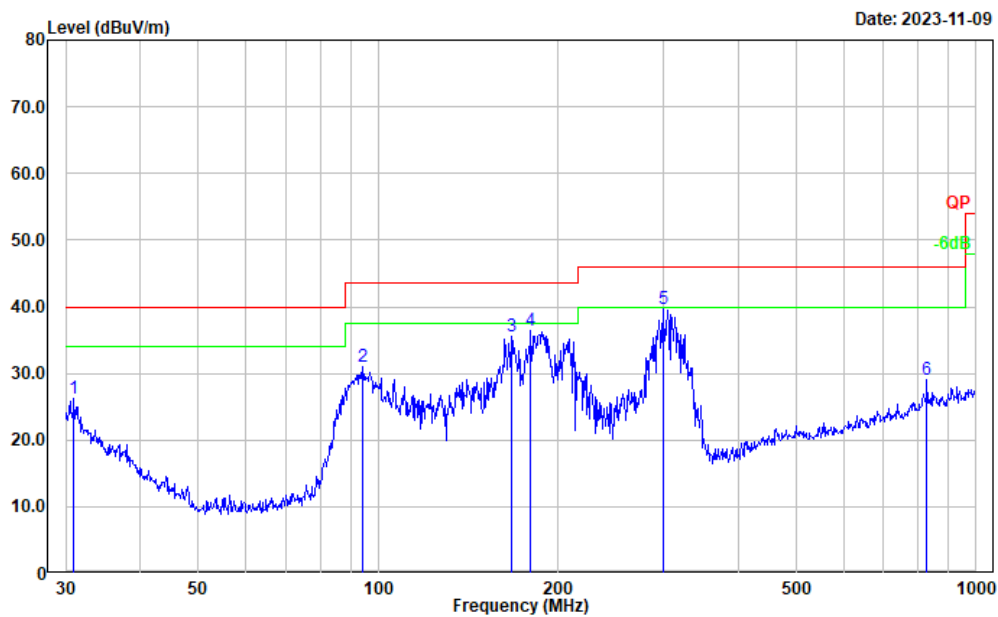
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

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

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

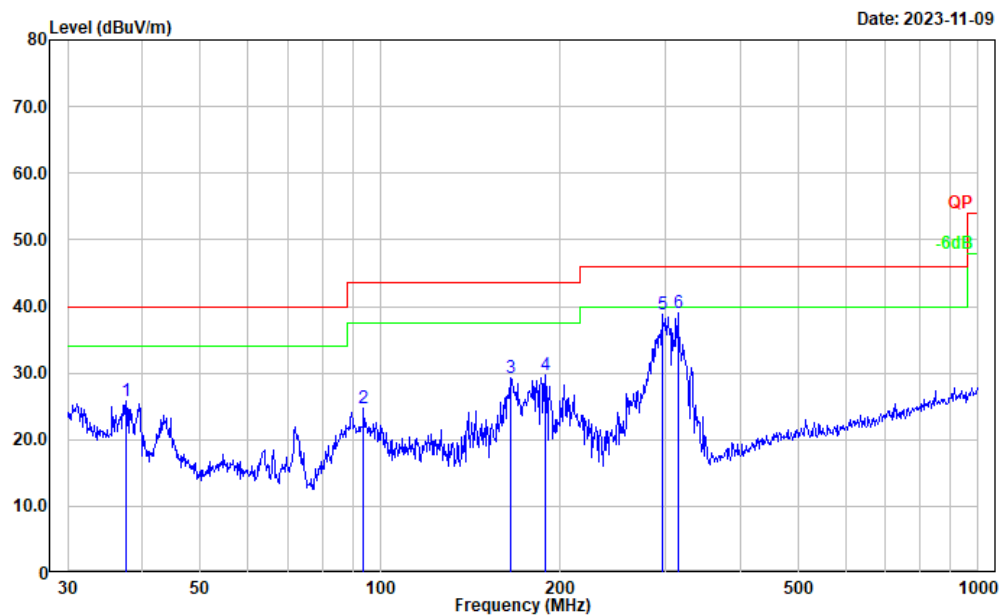
2) 30MHz-1GHz(maximum output power mode(802.11a mode Chain 0) was tested)
5150-5250MHz, Low Channel:

Project No.: CR231061271-RF
Tester: Vic Du
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.962	30.80	-4.53	26.27	40.00	13.73	Peak
2	94.098	46.96	-15.90	31.06	43.50	12.44	Peak
3	166.651	48.01	-12.53	35.48	43.50	8.02	Peak
4	180.017	49.90	-13.53	36.37	43.50	7.13	Peak
5	299.316	50.39	-10.65	39.74	46.00	6.26	Peak
6	827.493	30.78	-1.67	29.11	46.00	16.89	Peak

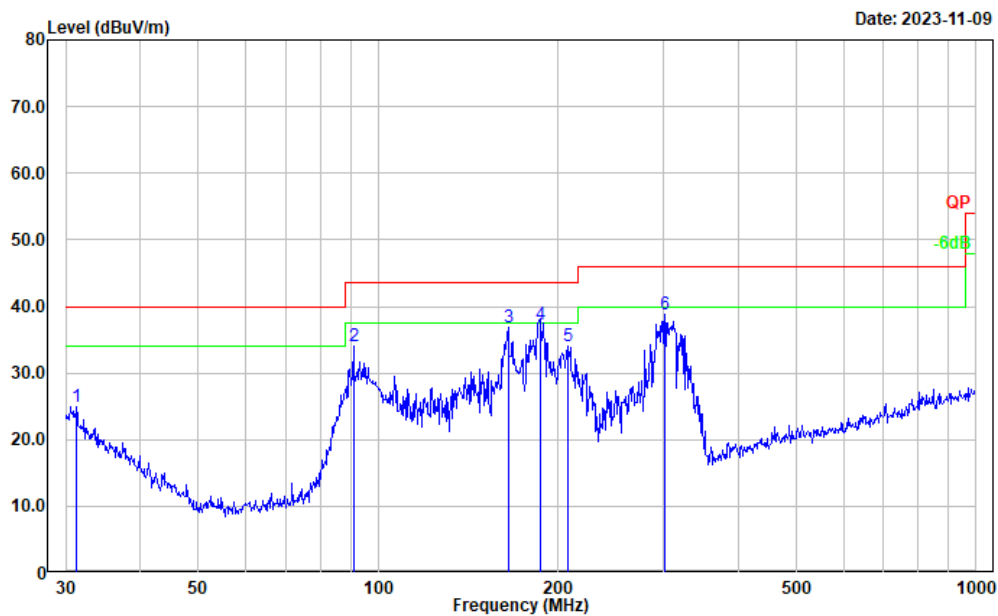
Project No.: CR231061271-RF
Tester: Vic Du
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	37.548	35.24	-9.52	25.72	40.00	14.28	Peak
2	93.768	40.80	-15.98	24.82	43.50	18.68	Peak
3	164.908	41.60	-12.40	29.20	43.50	14.30	Peak
4	188.413	43.29	-13.49	29.80	43.50	13.70	Peak
5	296.184	49.50	-10.74	38.76	46.00	7.24	Peak
6	314.377	49.66	-10.60	39.06	46.00	6.94	Peak

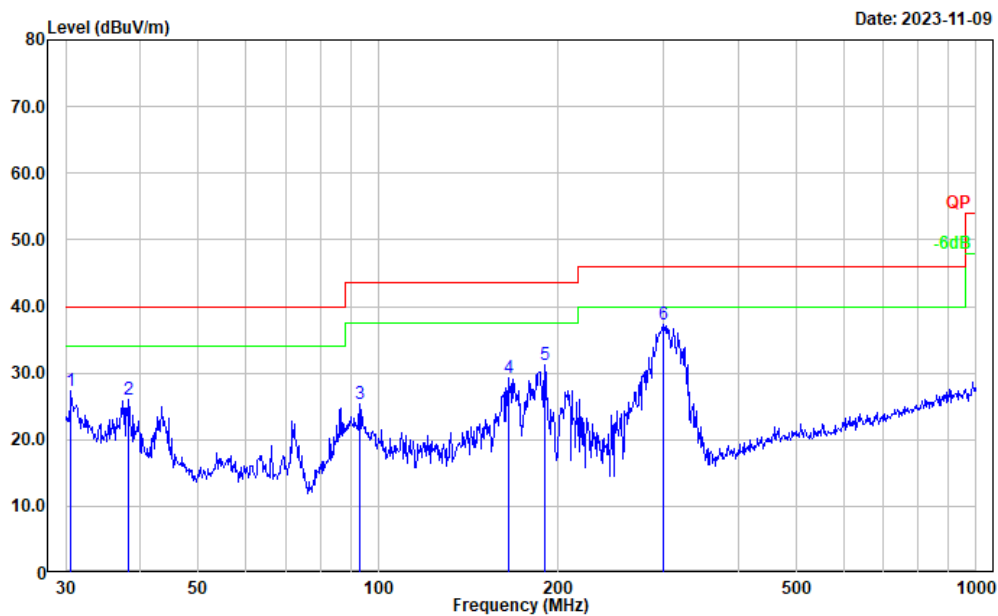
Middle Channel:

Project No.: CR231061271-RF
Tester: Vic Du
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.289	29.71	-4.77	24.94	40.00	15.06	Peak
2	90.855	50.68	-16.72	33.96	43.50	9.54	Peak
3	164.908	49.30	-12.40	36.90	43.50	6.60	Peak
4	186.441	50.76	-13.53	37.23	43.50	6.27	QP
5	207.123	46.54	-12.41	34.13	43.50	9.37	Peak
6	301.422	49.48	-10.61	38.87	46.00	7.13	Peak

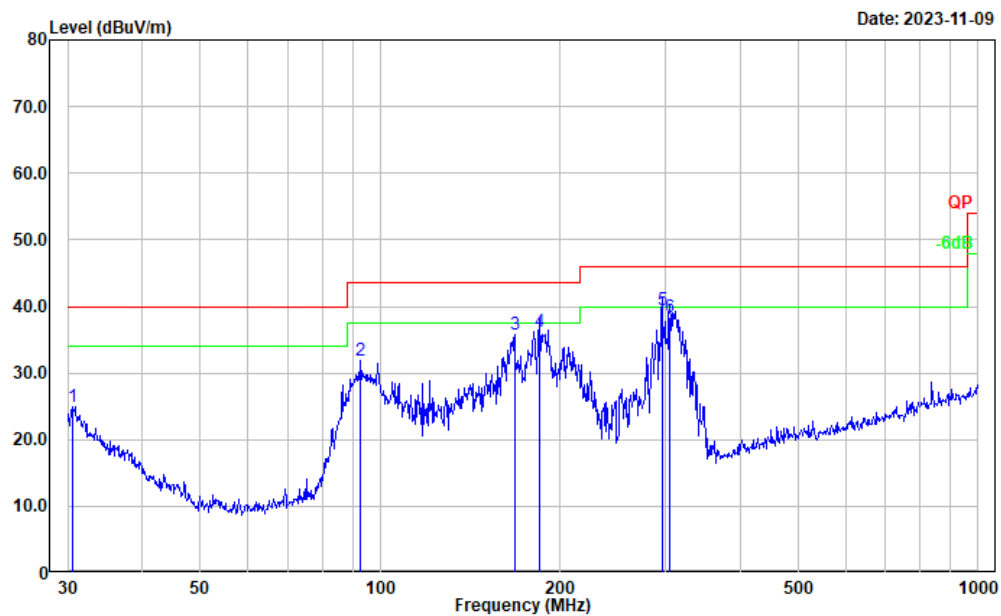
Project No.: CR231061271-RF
Tester: Vic Du
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	31.49	-4.28	27.21	40.00	12.79	Peak
2	38.212	35.99	-10.02	25.97	40.00	14.03	Peak
3	93.113	41.56	-16.12	25.44	43.50	18.06	Peak
4	165.487	41.64	-12.41	29.23	43.50	14.27	Peak
5	189.739	44.64	-13.47	31.17	43.50	12.33	Peak
6	299.316	48.05	-10.65	37.40	46.00	8.60	Peak

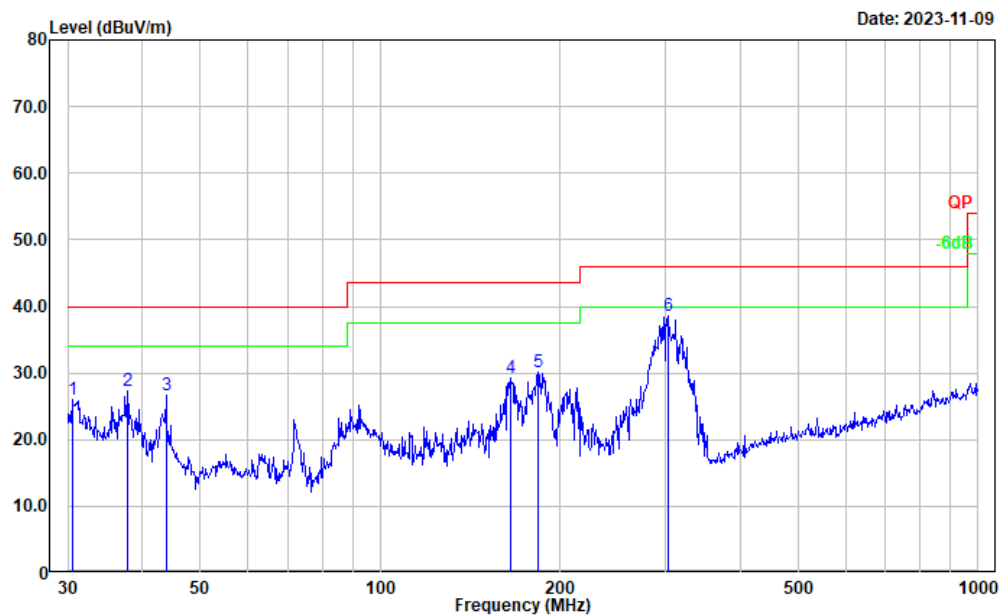
High Channel:

Project No.: CR231061271-RF
Tester: Vic Du
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.638	29.29	-4.28	25.01	40.00	14.99	Peak
2	92.787	48.00	-16.22	31.78	43.50	11.72	Peak
3	167.824	48.33	-12.63	35.70	43.50	7.80	Peak
4	185.138	49.74	-13.51	36.23	43.50	7.27	QP
5	296.184	50.21	-10.74	39.47	46.00	6.53	QP
6	304.610	48.90	-10.57	38.33	46.00	7.67	QP

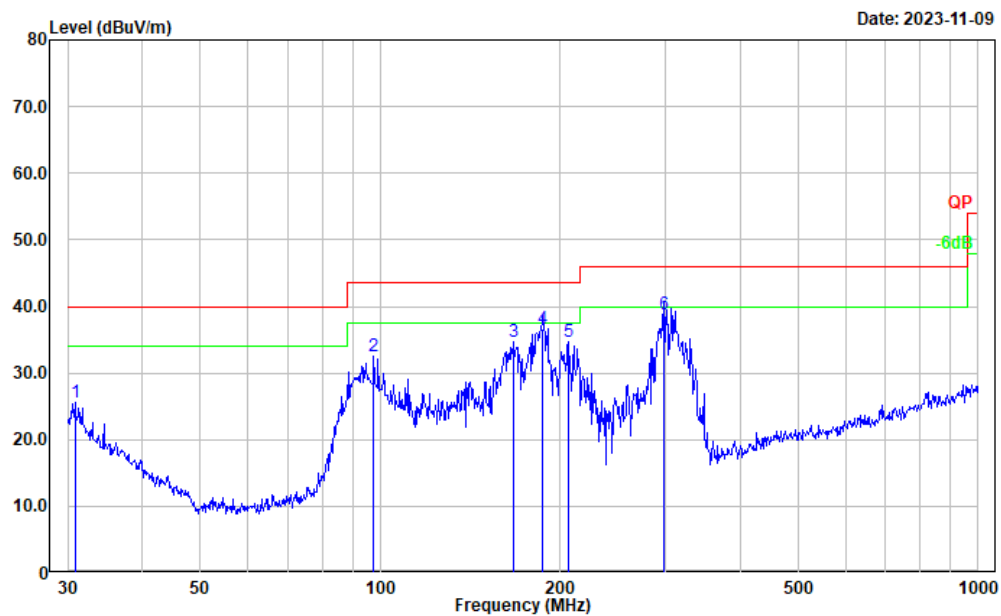
Project No.: CR231061271-RF
Tester: Vic Du
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	30.28	-4.20	26.08	40.00	13.92	Peak
2	37.812	37.05	-9.72	27.33	40.00	12.67	Peak
3	43.812	40.27	-13.58	26.69	40.00	13.31	Peak
4	165.487	41.65	-12.41	29.24	43.50	14.26	Peak
5	183.201	43.68	-13.53	30.15	43.50	13.35	Peak
6	303.544	49.10	-10.59	38.51	46.00	7.49	Peak

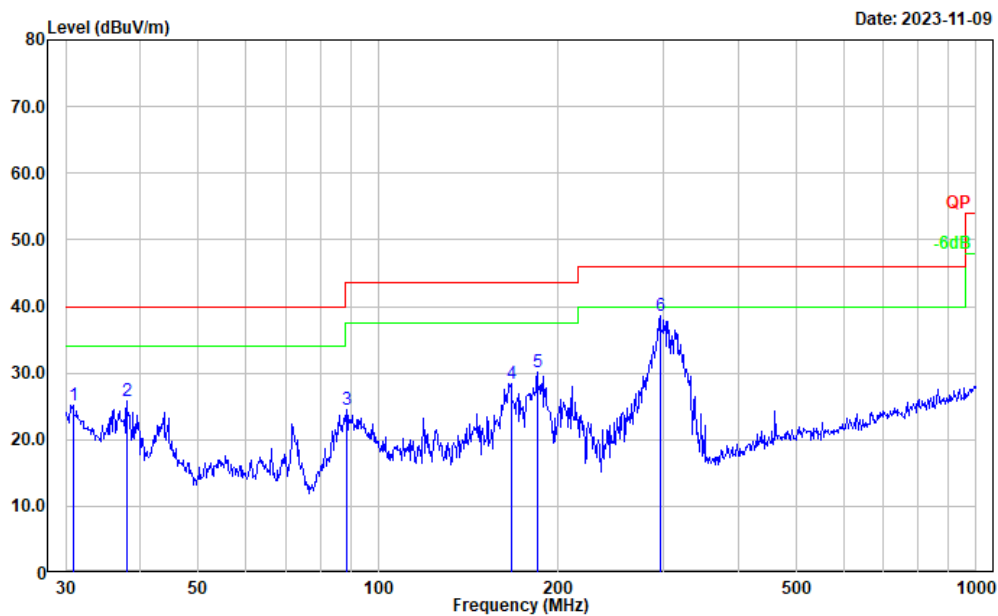
5725-5850MHz, Low Channel:

Project No.: CR231061271-RF
Tester: Vic Du
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.853	29.93	-4.45	25.48	40.00	14.52	Peak
2	97.456	47.41	-14.94	32.47	43.50	11.03	Peak
3	167.237	47.22	-12.59	34.63	43.50	8.87	Peak
4	187.096	50.19	-13.54	36.65	43.50	6.85	QP
5	206.398	47.12	-12.40	34.72	43.50	8.78	Peak
6	298.268	49.54	-10.69	38.85	46.00	7.15	QP

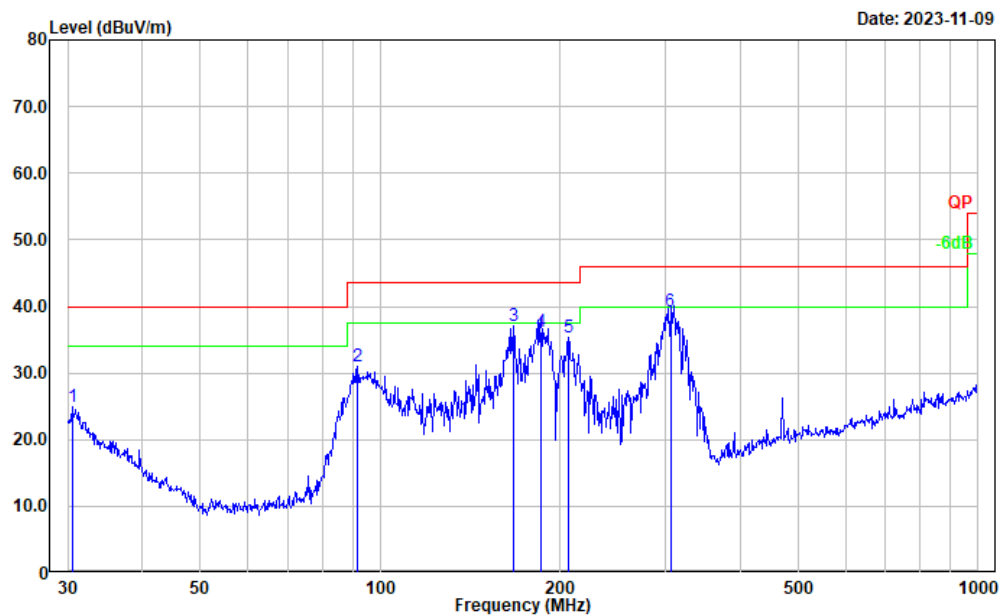
Project No.: CR231061271-RF
Tester: Vic Du
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.853	29.67	-4.45	25.22	40.00	14.78	Peak
2	37.945	35.66	-9.81	25.85	40.00	14.15	Peak
3	88.342	41.51	-17.02	24.49	43.50	19.01	Peak
4	166.651	40.93	-12.53	28.40	43.50	15.10	Peak
5	184.490	43.55	-13.52	30.03	43.50	13.47	Peak
6	296.184	49.29	-10.74	38.55	46.00	7.45	Peak

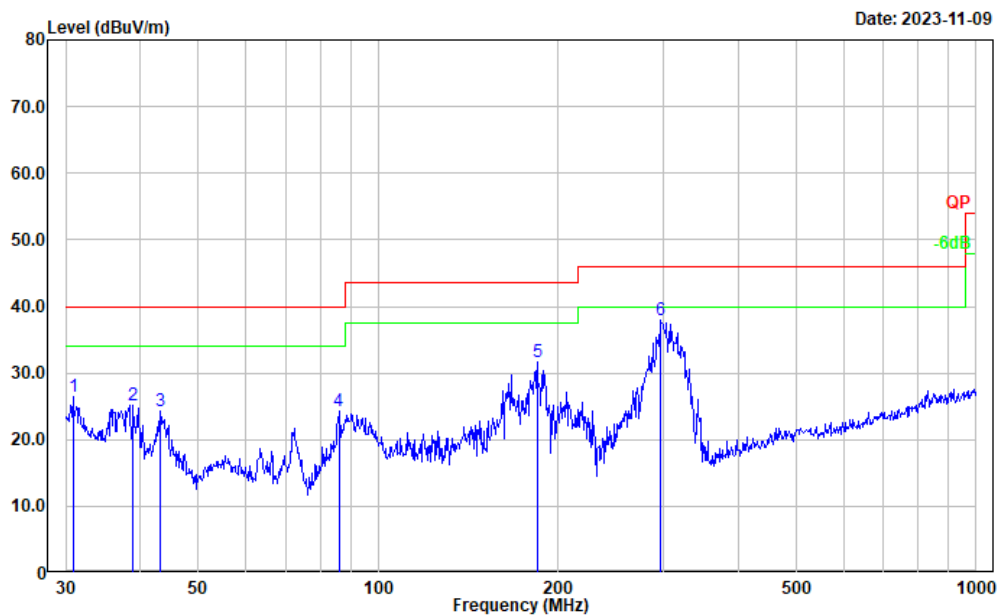
Middle Channel

Project No.: CR231061271-RF
Tester: Vic Du
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	29.16	-4.20	24.96	40.00	15.04	Peak
2	91.495	47.56	-16.57	30.99	43.50	12.51	Peak
3	166.651	49.53	-12.53	37.00	43.50	6.50	Peak
4	185.788	49.81	-13.52	36.29	43.50	7.21	QP
5	206.398	47.80	-12.40	35.40	43.50	8.10	Peak
6	305.680	49.72	-10.57	39.15	46.00	6.85	QP

Project No.: CR231061271-RF
Tester: Vic Du
Polarization: vertical
Note:

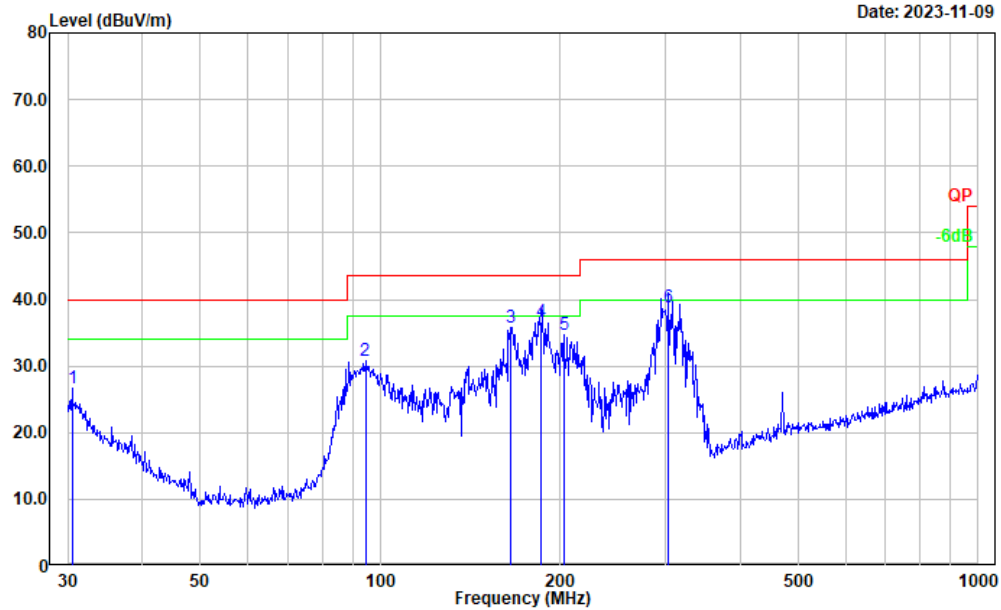


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.853	30.96	-4.45	26.51	40.00	13.49	Peak
2	38.888	35.74	-10.54	25.20	40.00	14.80	Peak
3	43.202	37.43	-13.22	24.21	40.00	15.79	Peak
4	85.898	41.44	-17.15	24.29	40.00	15.71	Peak
5	184.490	45.19	-13.52	31.67	43.50	11.83	Peak
6	297.224	48.71	-10.71	38.00	46.00	8.00	Peak

High Channel

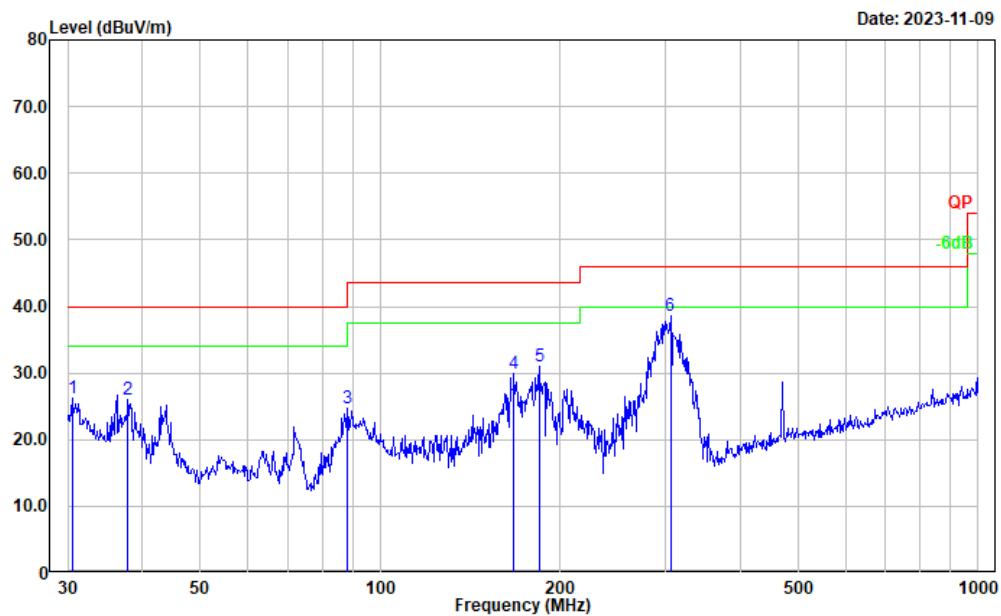
Project No.: CR231061271-RF
Tester: Vic Du
Polarization: horizontal
Note:

Date: 2023-11-09



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	30.89	-4.20	26.69	40.00	13.31	Peak
2	94.428	46.57	-15.81	30.76	43.50	12.74	Peak
3	165.487	48.27	-12.41	35.86	43.50	7.64	Peak
4	185.788	50.07	-13.52	36.55	43.50	6.95	QP
5	202.810	47.01	-12.30	34.71	43.50	8.79	Peak
6	303.544	49.48	-10.59	38.89	46.00	7.11	QP

Project No.: CR231061271-RF
Tester: Vic Du
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.531	30.40	-4.20	26.20	40.00	13.80	Peak
2	37.812	35.75	-9.72	26.03	40.00	13.97	Peak
3	88.033	41.84	-17.03	24.81	43.50	18.69	Peak
4	167.237	42.60	-12.59	30.01	43.50	13.49	Peak
5	184.490	44.54	-13.52	31.02	43.50	12.48	Peak
6	305.680	49.14	-10.57	38.57	46.00	7.43	Peak

3) 1GHz-40GHz:**Chain 0:****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	29.71	PK	H	32.83	62.54	74.00	11.46
5150.000	16.78	AV	H	32.83	49.61	54.00	4.39
5150.000	29.62	PK	V	32.83	62.45	74.00	11.55
5150.000	16.74	AV	V	32.83	49.57	54.00	4.43
10360.000	33.47	PK	H	14.45	47.92	68.20	20.28
10360.000	33.38	PK	V	14.45	47.83	68.20	20.37
15540.000	34.58	PK	H	18.60	53.18	74.00	20.82
15540.000	21.36	AV	H	18.60	39.96	54.00	14.04
15540.000	34.33	PK	V	18.60	52.93	74.00	21.07
15540.000	21.13	AV	V	18.60	39.73	54.00	14.27
Middle Channel: 5200 MHz							
10400.000	34.09	PK	H	14.52	48.61	68.20	19.59
10400.000	33.92	PK	V	14.52	48.44	68.20	19.76
15600.000	35.20	PK	H	18.69	53.89	74.00	20.11
15600.000	22.48	AV	H	18.69	41.17	54.00	12.83
15600.000	34.87	PK	V	18.69	53.56	74.00	20.44
15600.000	21.66	AV	V	18.69	40.35	54.00	13.65
High Channel: 5240 MHz							
5350.000	29.66	PK	H	32.70	62.36	74.00	11.64
5350.000	16.53	AV	H	32.70	49.23	54.00	4.77
5350.000	29.63	PK	V	32.70	62.33	74.00	11.67
5350.000	16.42	AV	V	32.70	49.12	54.00	4.88
10480.000	34.00	PK	H	14.40	48.40	68.20	19.80
10480.000	33.84	PK	V	14.40	48.24	68.20	19.96
15720.000	34.68	PK	H	18.80	53.48	74.00	20.52
15720.000	21.39	AV	H	18.80	40.19	54.00	13.81
15720.000	34.65	PK	V	18.80	53.45	74.00	20.55
15720.000	21.71	AV	V	18.80	40.51	54.00	13.49

802.11n ht20 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	30.16	PK	H	32.83	62.99	74.00	11.01
5150.000	16.79	AV	H	32.83	49.62	54.00	4.38
5150.000	29.88	PK	V	32.83	62.71	74.00	11.29
5150.000	16.46	AV	V	32.83	49.29	54.00	4.71
10360.000	33.40	PK	H	14.45	47.85	68.20	20.35
10360.000	33.35	PK	V	14.45	47.80	68.20	20.40
15540.000	34.15	PK	H	18.60	52.75	74.00	21.25
15540.000	21.63	AV	H	18.60	40.23	54.00	13.77
15540.000	34.08	PK	V	18.60	52.68	74.00	21.32
15540.000	21.39	AV	V	18.60	39.99	54.00	14.01
Middle Channel:				5200	MHz		
10400.000	33.83	PK	H	14.52	48.35	68.20	19.85
10400.000	33.47	PK	V	14.52	47.99	68.20	20.21
15600.000	34.63	PK	H	18.69	53.32	74.00	20.68
15600.000	21.36	AV	H	18.69	40.05	54.00	13.95
15600.000	33.83	PK	V	18.69	52.52	74.00	21.48
15600.000	20.79	AV	V	18.69	39.48	54.00	14.52
High Channel:				5240	MHz		
5350.000	29.74	PK	H	32.70	62.44	74.00	11.56
5350.000	16.87	AV	H	32.70	49.57	54.00	4.43
5350.000	29.69	PK	V	32.70	62.39	74.00	11.61
5350.000	16.58	AV	V	32.70	49.28	54.00	4.72
10480.000	33.61	PK	H	14.40	48.01	68.20	20.19
10480.000	33.46	PK	V	14.40	47.86	68.20	20.34
15720.000	34.23	PK	H	18.80	53.03	74.00	20.97
15720.000	21.09	AV	H	18.80	39.89	54.00	14.11
15720.000	33.86	PK	V	18.80	52.66	74.00	21.34
15720.000	20.48	AV	V	18.80	39.28	54.00	14.72

802.11n ht40 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	29.68	PK	H	32.83	62.51	74.00	11.49
5150.000	16.77	AV	H	32.83	49.60	54.00	4.40
5150.000	29.66	PK	V	32.83	62.49	74.00	11.51
5150.000	16.58	AV	V	32.83	49.41	54.00	4.59
10380.000	34.44	PK	H	14.49	48.93	68.20	19.27
10380.000	34.12	PK	V	14.49	48.61	68.20	19.59
15570.000	34.52	PK	H	18.65	53.17	74.00	20.83
15570.000	21.41	AV	H	18.65	40.06	54.00	13.94
15570.000	33.82	PK	V	18.65	52.47	74.00	21.53
15570.000	20.47	AV	V	18.65	39.12	54.00	14.88
High Channel: 5230 MHz							
5350.000	29.85	PK	H	32.70	62.55	74.00	11.45
5350.000	16.74	AV	H	32.70	49.44	54.00	4.56
5350.000	29.63	PK	V	32.70	62.33	74.00	11.67
5350.000	16.48	AV	V	32.70	49.18	54.00	4.82
10460.000	34.52	PK	H	14.43	48.95	68.20	19.25
10460.000	34.13	PK	V	14.43	48.56	68.20	19.64
15690.000	35.03	PK	H	18.75	53.78	74.00	20.22
15690.000	22.23	AV	H	18.75	40.98	54.00	13.02
15690.000	34.72	PK	V	18.75	53.47	74.00	20.53
15690.000	21.15	AV	V	18.75	39.90	54.00	14.10

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	30.25	PK	H	32.83	63.08	74.00	10.92
5150.000	17.23	AV	H	32.83	50.06	54.00	3.94
5150.000	30.55	PK	V	32.83	63.38	74.00	10.62
5150.000	16.87	AV	V	32.83	49.70	54.00	4.30
5350.000	29.77	PK	H	32.70	62.47	74.00	11.53
5350.000	16.74	AV	H	32.70	49.44	54.00	4.56
5350.000	29.63	PK	V	32.70	62.33	74.00	11.67
5350.000	16.55	AV	V	32.70	49.25	54.00	4.75
10420.000	34.03	PK	H	14.49	48.52	68.20	19.68
10420.000	33.95	PK	V	14.49	48.44	68.20	19.76
15630.000	34.20	PK	H	18.71	52.91	74.00	21.09
15630.000	21.21	AV	H	18.71	39.92	54.00	14.08
15630.000	33.65	PK	V	18.71	52.36	74.00	21.64
15630.000	20.48	AV	V	18.71	39.19	54.00	14.81

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	33.36	PK	H	15.47	48.83	74.00	25.17
11490.000	20.55	AV	H	15.47	36.02	54.00	17.98
11490.000	33.23	PK	V	15.47	48.70	74.00	25.30
11490.000	20.45	AV	V	15.47	35.92	54.00	18.08
17235.000	34.29	PK	H	22.69	56.98	68.20	11.22
17235.000	33.58	PK	V	22.69	56.27	68.20	11.93
Middle Channel:				5785	MHz		
11570.000	34.11	PK	H	15.69	49.80	74.00	24.20
11570.000	21.02	AV	H	15.69	36.71	54.00	17.29
11570.000	33.62	PK	V	15.69	49.31	74.00	24.69
11570.000	20.44	AV	V	15.69	36.13	54.00	17.87
17355.000	34.58	PK	H	23.33	57.91	68.20	10.29
17355.000	34.10	PK	V	23.33	57.43	68.20	10.77
High Channel:				5825	MHz		
11650.000	33.69	PK	H	16.02	49.71	74.00	24.29
11650.000	20.47	AV	H	16.02	36.49	54.00	17.51
11650.000	33.56	PK	V	16.02	49.58	74.00	24.42
11650.000	20.41	AV	V	16.02	36.43	54.00	17.57
17475.000	34.48	PK	H	23.87	58.35	68.20	9.85
17475.000	34.20	PK	V	23.87	58.07	68.20	10.13

802.11n ht20 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	34.25	PK	H	15.47	49.72	74.00	24.28
11490.000	21.17	AV	H	15.47	36.64	54.00	17.36
11490.000	34.10	PK	V	15.47	49.57	74.00	24.43
11490.000	21.09	AV	V	15.47	36.56	54.00	17.44
17235.000	34.45	PK	H	22.69	57.14	68.20	11.06
17235.000	34.16	PK	V	22.69	56.85	68.20	11.35
Middle Channel:				5785	MHz		
11570.000	34.52	PK	H	15.69	50.21	74.00	23.79
11570.000	21.45	AV	H	15.69	37.14	54.00	16.86
11570.000	33.87	PK	V	15.69	49.56	74.00	24.44
11570.000	20.69	AV	V	15.69	36.38	54.00	17.62
17355.000	33.74	PK	H	23.33	57.07	68.20	11.13
17355.000	33.62	PK	V	23.33	56.95	68.20	11.25
High Channel:				5825	MHz		
11650.000	34.26	PK	H	16.02	50.28	74.00	23.72
11650.000	21.20	AV	H	16.02	37.22	54.00	16.78
11650.000	34.18	PK	V	16.02	50.20	74.00	23.80
11650.000	21.14	AV	V	16.02	37.16	54.00	16.84
17475.000	34.28	PK	H	23.87	58.15	68.20	10.05
17475.000	34.11	PK	V	23.87	57.98	68.20	10.22

802.11n ht40 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	33.69	PK	H	15.46	49.15	74.00	24.85
11510.000	20.48	AV	H	15.46	35.94	54.00	18.06
11510.000	33.25	PK	V	15.46	48.71	74.00	25.29
11510.000	20.32	AV	V	15.46	35.78	54.00	18.22
17265.000	34.20	PK	H	22.77	56.97	68.20	11.23
17265.000	33.94	PK	V	22.77	56.71	68.20	11.49
High Channel:				5795	MHz		
11590.000	34.23	PK	H	15.76	49.99	74.00	24.01
11590.000	21.56	AV	H	15.76	37.32	54.00	16.68
11590.000	34.12	PK	V	15.76	49.88	74.00	24.12
11590.000	21.28	AV	V	15.76	37.04	54.00	16.96
17385.000	33.64	PK	H	23.57	57.21	68.20	10.99
17385.000	33.51	PK	V	23.57	57.08	68.20	11.12

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	34.56	PK	H	15.61	50.17	74.00	23.83
11550.000	21.10	AV	H	15.61	36.71	54.00	17.29
11550.000	34.50	PK	V	15.61	50.11	74.00	23.89
11550.000	21.41	AV	V	15.61	37.02	54.00	16.98
17325.000	33.68	PK	H	23.09	56.77	68.20	11.43
17325.000	33.45	PK	V	23.09	56.54	68.20	11.66

Chain 1:**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	29.63	PK	H	32.83	62.46	74.00	11.54
5150.000	16.57	AV	H	32.83	49.40	54.00	4.60
5150.000	29.78	PK	V	32.83	62.61	74.00	11.39
5150.000	16.82	AV	V	32.83	49.65	54.00	4.35
10360.000	34.21	PK	H	14.45	48.66	68.20	19.54
10360.000	34.38	PK	V	14.45	48.83	68.20	19.37
15540.000	34.55	PK	H	18.60	53.15	74.00	20.85
15540.000	21.52	AV	H	18.60	40.12	54.00	13.88
15540.000	34.67	PK	V	18.60	53.27	74.00	20.73
15540.000	21.58	AV	V	18.60	40.18	54.00	13.82
Middle Channel: 5200 MHz							
10400.000	34.52	PK	H	14.52	49.04	68.20	19.16
10400.000	34.17	PK	V	14.52	48.69	68.20	19.51
15600.000	34.86	PK	H	18.69	53.55	74.00	20.45
15600.000	21.55	AV	H	18.69	40.24	54.00	13.76
15600.000	34.28	PK	V	18.69	52.97	74.00	21.03
15600.000	21.58	AV	V	18.69	40.27	54.00	13.73
High Channel: 5240 MHz							
5350.000	29.61	PK	H	32.70	62.31	74.00	11.69
5350.000	16.74	AV	H	32.70	49.44	54.00	4.56
5350.000	30.12	PK	V	32.70	62.82	74.00	11.18
5350.000	16.82	AV	V	32.70	49.52	54.00	4.48
10480.000	34.20	PK	H	14.40	48.60	68.20	19.60
10480.000	34.52	PK	V	14.40	48.92	68.20	19.28
15720.000	34.58	PK	H	18.80	53.38	74.00	20.62
15720.000	21.74	AV	H	18.80	40.54	54.00	13.46
15720.000	34.20	PK	V	18.80	53.00	74.00	21.00
15720.000	21.69	AV	V	18.80	40.49	54.00	13.51

802.11n ht20 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	29.87	PK	H	32.83	62.70	74.00	11.30
5150.000	16.71	AV	H	32.83	49.54	54.00	4.46
5150.000	30.52	PK	V	32.83	63.35	74.00	10.65
5150.000	16.82	AV	V	32.83	49.65	54.00	4.35
10360.000	33.54	PK	H	14.45	47.99	68.20	20.21
10360.000	33.47	PK	V	14.45	47.92	68.20	20.28
15540.000	34.69	PK	H	18.60	53.29	74.00	20.71
15540.000	21.50	AV	H	18.60	40.10	54.00	13.90
15540.000	34.25	PK	V	18.60	52.85	74.00	21.15
15540.000	21.74	AV	V	18.60	40.34	54.00	13.66
Middle Channel: 5200 MHz							
10400.000	33.44	PK	H	14.52	47.96	68.20	20.24
10400.000	34.20	PK	V	14.52	48.72	68.20	19.48
15600.000	33.58	PK	H	18.69	52.27	74.00	21.73
15600.000	21.44	AV	H	18.69	40.13	54.00	13.87
15600.000	34.66	PK	V	18.69	53.35	74.00	20.65
15600.000	21.02	AV	V	18.69	39.71	54.00	14.29
High Channel: 5240 MHz							
5350.000	30.11	PK	H	32.70	62.81	74.00	11.19
5350.000	16.21	AV	H	32.70	48.91	54.00	5.09
5350.000	30.74	PK	V	32.70	63.44	74.00	10.56
5350.000	16.82	AV	V	32.70	49.52	54.00	4.48
10480.000	33.62	PK	H	14.40	48.02	68.20	20.18
10480.000	34.27	PK	V	14.40	48.67	68.20	19.53
15720.000	33.85	PK	H	18.80	52.65	74.00	21.35
15720.000	21.04	AV	H	18.80	39.84	54.00	14.16
15720.000	34.56	PK	V	18.80	53.36	74.00	20.64
15720.000	21.07	AV	V	18.80	39.87	54.00	14.13

802.11n ht40 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	29.69	PK	H	32.83	62.52	74.00	11.48
5150.000	16.78	AV	H	32.83	49.61	54.00	4.39
5150.000	30.46	PK	V	32.83	63.29	74.00	10.71
5150.000	17.05	AV	V	32.83	49.88	54.00	4.12
10380.000	33.96	PK	H	14.49	48.45	68.20	19.75
10380.000	34.25	PK	V	14.49	48.74	68.20	19.46
15570.000	34.20	PK	H	18.65	52.85	74.00	21.15
15570.000	21.23	AV	H	18.65	39.88	54.00	14.12
15570.000	34.63	PK	V	18.65	53.28	74.00	20.72
15570.000	21.08	AV	V	18.65	39.73	54.00	14.27
High Channel:				5230	MHz		
5350.000	29.82	PK	H	32.70	62.52	74.00	11.48
5350.000	16.52	AV	H	32.70	49.22	54.00	4.78
5350.000	29.67	PK	V	32.70	62.37	74.00	11.63
5350.000	16.47	AV	V	32.70	49.17	54.00	4.83
10460.000	34.65	PK	H	14.43	49.08	68.20	19.12
10460.000	34.53	PK	V	14.43	48.96	68.20	19.24
15690.000	34.92	PK	H	18.75	53.67	74.00	20.33
15690.000	21.20	AV	H	18.75	39.95	54.00	14.05
15690.000	34.54	PK	V	18.75	53.29	74.00	20.71
15690.000	21.69	AV	V	18.75	40.44	54.00	13.56

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	29.69	PK	H	32.83	62.52	74.00	11.48
5150.000	16.74	AV	H	32.83	49.57	54.00	4.43
5150.000	30.11	PK	V	32.83	62.94	74.00	11.06
5150.000	17.08	AV	V	32.83	49.91	54.00	4.09
5350.000	30.23	PK	H	32.70	62.93	74.00	11.07
5350.000	16.58	AV	H	32.70	49.28	54.00	4.72
5350.000	29.67	PK	V	32.70	62.37	74.00	11.63
5350.000	16.79	AV	V	32.70	49.49	54.00	4.51
10420.000	34.25	PK	H	14.49	48.74	68.20	19.46
10420.000	34.78	PK	V	14.49	49.27	68.20	18.93
15630.000	33.69	PK	H	18.71	52.40	74.00	21.60
15630.000	20.45	AV	H	18.71	39.16	54.00	14.84
15630.000	34.69	PK	V	18.71	53.40	74.00	20.60
15630.000	21.55	AV	V	18.71	40.26	54.00	13.74

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	33.65	PK	H	15.47	49.12	74.00	24.88
11490.000	20.47	AV	H	15.47	35.94	54.00	18.06
11490.000	34.20	PK	V	15.47	49.67	74.00	24.33
11490.000	21.25	AV	V	15.47	36.72	54.00	17.28
17235.000	33.69	PK	H	22.69	56.38	68.20	11.82
17235.000	33.56	PK	V	22.69	56.25	68.20	11.95
Middle Channel:				5785	MHz		
11570.000	34.23	PK	H	15.69	49.92	74.00	24.08
11570.000	21.11	AV	H	15.69	36.80	54.00	17.20
11570.000	34.25	PK	V	15.69	49.94	74.00	24.06
11570.000	21.63	AV	V	15.69	37.32	54.00	16.68
17355.000	33.65	PK	H	23.33	56.98	68.20	11.22
17355.000	33.53	PK	V	23.33	56.86	68.20	11.34
High Channel:				5825	MHz		
11650.000	33.65	PK	H	16.02	49.67	74.00	24.33
11650.000	21.40	AV	H	16.02	37.42	54.00	16.58
11650.000	34.10	PK	V	16.02	50.12	74.00	23.88
11650.000	21.05	AV	V	16.02	37.07	54.00	16.93
17475.000	34.18	PK	H	23.87	58.05	68.20	10.15
17475.000	34.23	PK	V	23.87	58.10	68.20	10.10

802.11n ht20 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	34.25	PK	H	15.47	49.72	74.00	24.28
11490.000	21.17	AV	H	15.47	36.64	54.00	17.36
11490.000	34.10	PK	V	15.47	49.57	74.00	24.43
11490.000	21.09	AV	V	15.47	36.56	54.00	17.44
17235.000	34.45	PK	H	22.69	57.14	68.20	11.06
17235.000	34.16	PK	V	22.69	56.85	68.20	11.35
Middle Channel:				5785	MHz		
11570.000	34.52	PK	H	15.69	50.21	74.00	23.79
11570.000	21.45	AV	H	15.69	37.14	54.00	16.86
11570.000	33.87	PK	V	15.69	49.56	74.00	24.44
11570.000	20.69	AV	V	15.69	36.38	54.00	17.62
17355.000	33.74	PK	H	23.33	57.07	68.20	11.13
17355.000	33.62	PK	V	23.33	56.95	68.20	11.25
High Channel:				5825	MHz		
11650.000	34.26	PK	H	16.02	50.28	74.00	23.72
11650.000	21.20	AV	H	16.02	37.22	54.00	16.78
11650.000	34.18	PK	V	16.02	50.20	74.00	23.80
11650.000	21.14	AV	V	16.02	37.16	54.00	16.84
17475.000	34.28	PK	H	23.87	58.15	68.20	10.05
17475.000	34.46	PK	V	23.87	58.33	68.20	9.87

802.11n ht40 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	33.65	PK	H	15.46	49.11	74.00	24.89
11510.000	21.21	AV	H	15.46	36.67	54.00	17.33
11510.000	34.53	PK	V	15.46	49.99	74.00	24.01
11510.000	21.46	AV	V	15.46	36.92	54.00	17.08
17265.000	33.69	PK	H	22.77	56.46	68.20	11.74
17265.000	33.84	PK	V	22.77	56.61	68.20	11.59
High Channel:				5795	MHz		
11590.000	33.68	PK	H	15.76	49.44	74.00	24.56
11590.000	20.23	AV	H	15.76	35.99	54.00	18.01
11590.000	34.78	PK	V	15.76	50.54	74.00	23.46
11590.000	21.20	AV	V	15.76	36.96	54.00	17.04
17385.000	33.67	PK	H	23.57	57.24	68.20	10.96
17385.000	33.83	PK	V	23.57	57.40	68.20	10.80

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	33.87	PK	H	15.61	49.48	74.00	24.52
11550.000	20.41	AV	H	15.61	36.02	54.00	17.98
11550.000	34.12	PK	V	15.61	49.73	74.00	24.27
11550.000	20.88	AV	V	15.61	36.49	54.00	17.51
17325.000	33.62	PK	H	23.09	56.71	68.20	11.49
17325.000	33.72	PK	V	23.09	56.81	68.20	11.39

Note:

Result = Reading + Factor- Distance extrapolation Factor

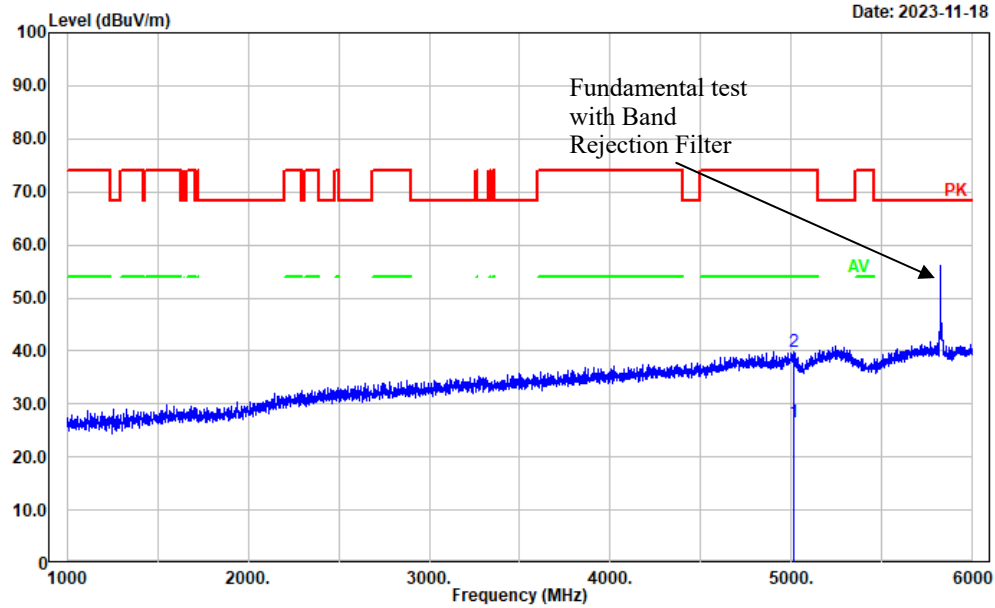
Distance extrapolation Factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB= 6.02 dB

Worst Test plots:

Chain 0:802.11a mode 5825MHz:

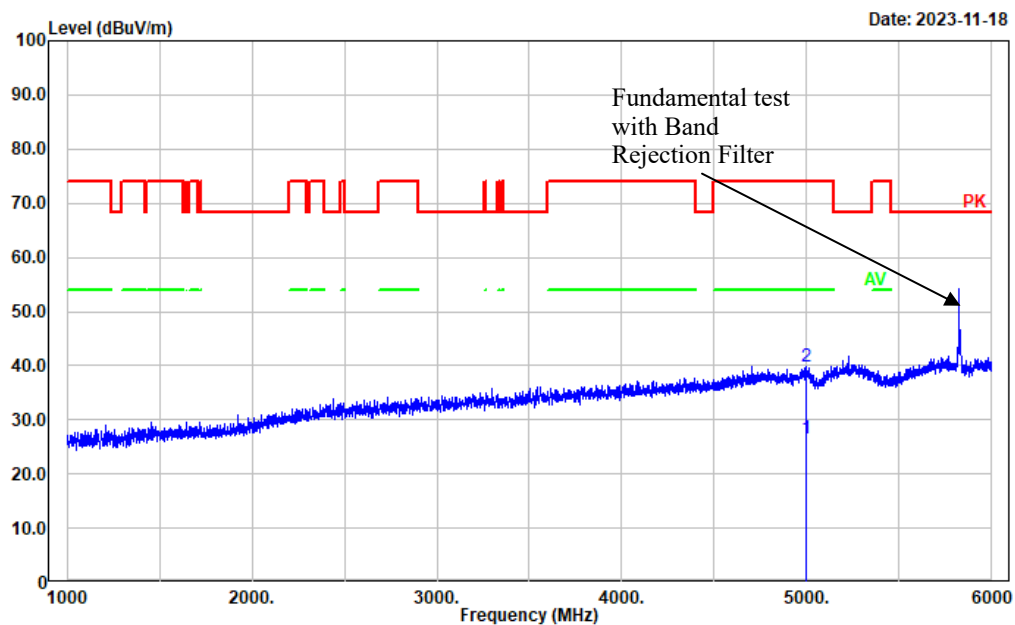
Project No.: CR231061271
Tester: Tao Zhu
Polarization: horizontal
Note:

Date: 2023-11-18



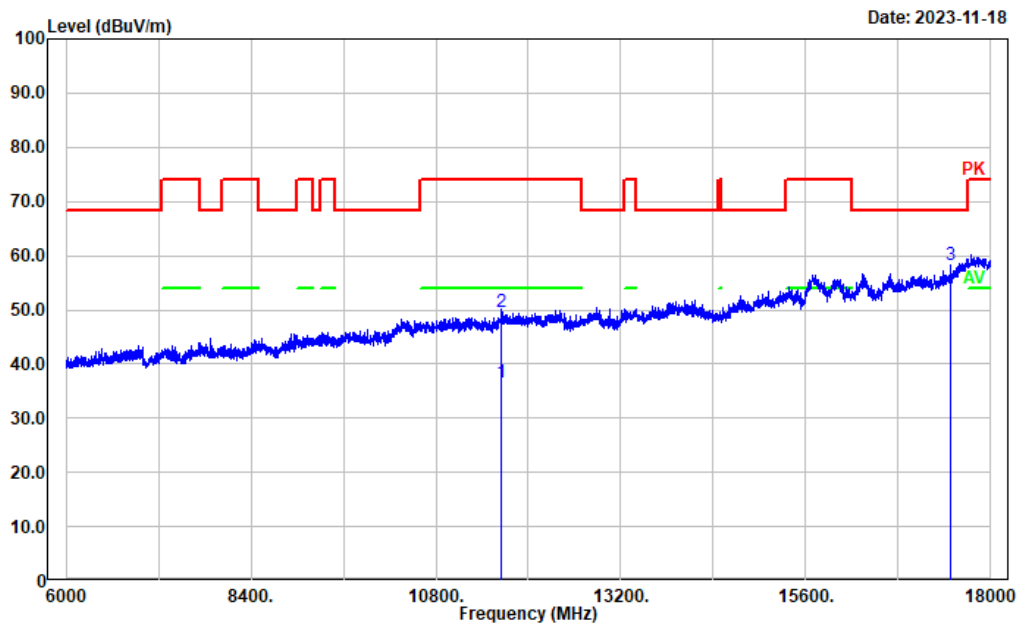
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5015.803	20.85	5.73	26.58	54.00	27.42	Average
2	5015.803	34.07	5.73	39.80	74.00	34.20	Peak

Project No.: CR231061271
Tester: Tao Zhu
Polarization: vertical
Note:



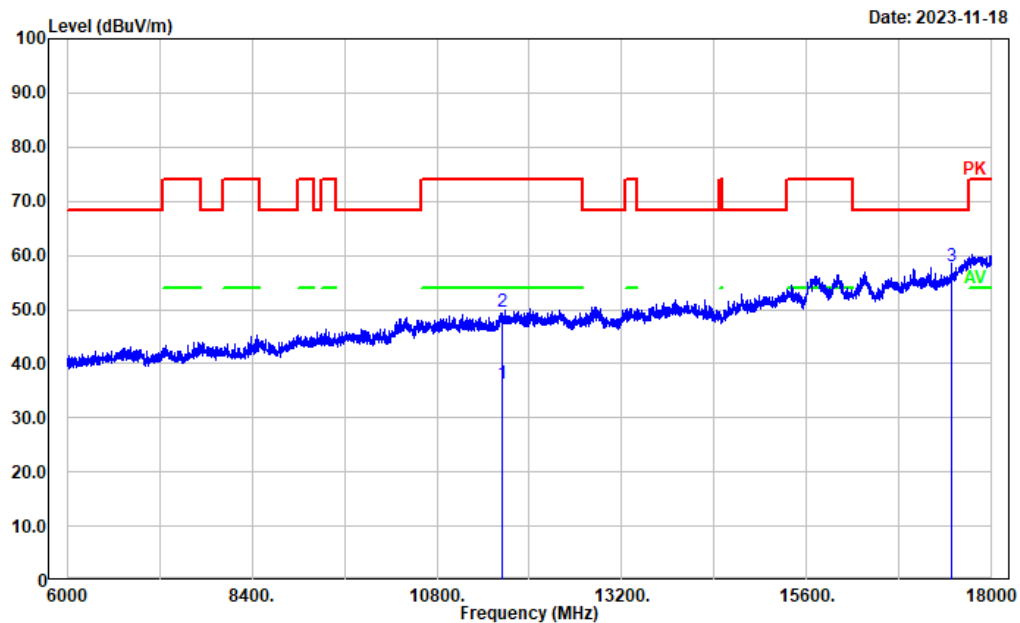
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4995.799	20.66	5.78	26.44	54.00	27.56	Average
2	4995.799	33.97	5.78	39.75	74.00	34.25	Peak

Project No.: CR231061271
Tester: Tao Zhu
Polarization: horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11650.000	20.47	16.02	36.49	54.00	17.51	Average
2	11650.000	33.69	16.02	49.71	74.00	24.29	Peak
3	17475.000	34.48	23.87	58.35	68.20	9.85	Peak

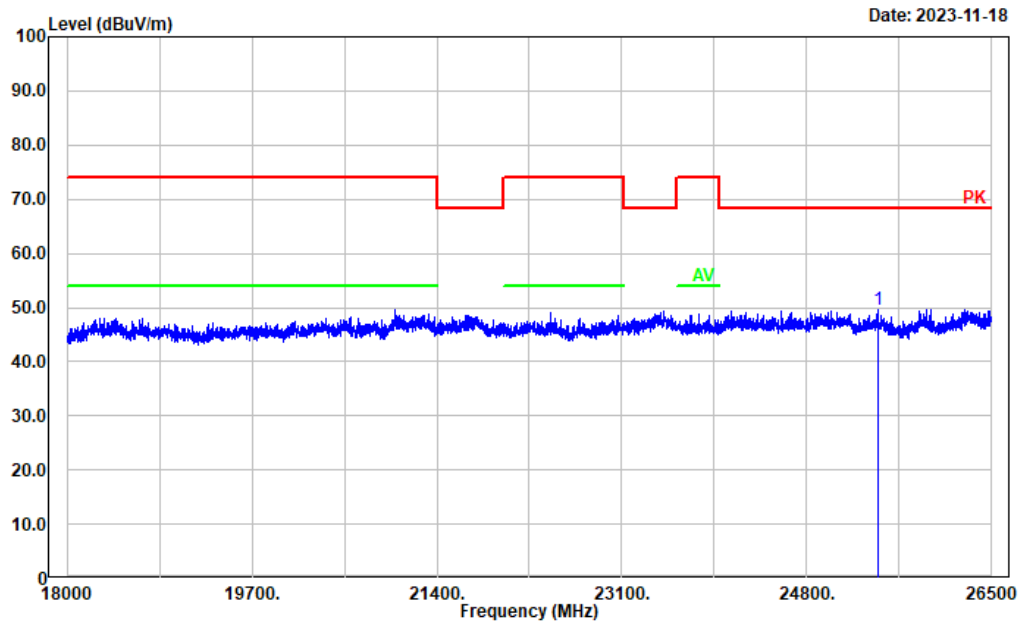
Project No.: CR231061271
Tester: Tao Zhu
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	11650.000	20.41	16.02	36.43	54.00	17.57	Average
2	11650.000	33.56	16.02	49.58	74.00	24.42	Peak
3	17475.000	34.20	23.87	58.07	68.20	10.13	Peak

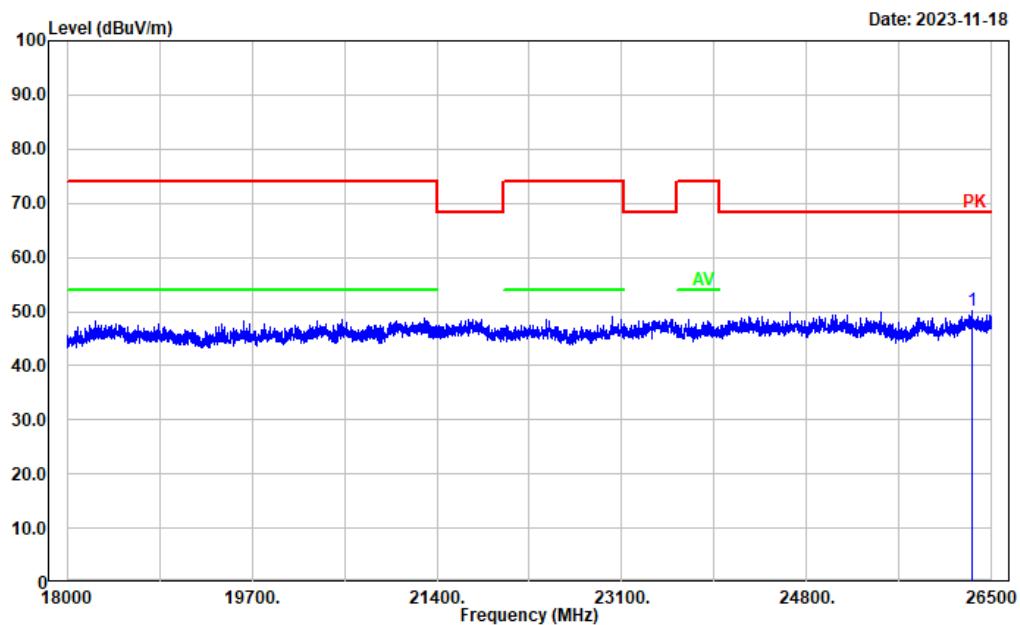
Project No.: CR231061271
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-18



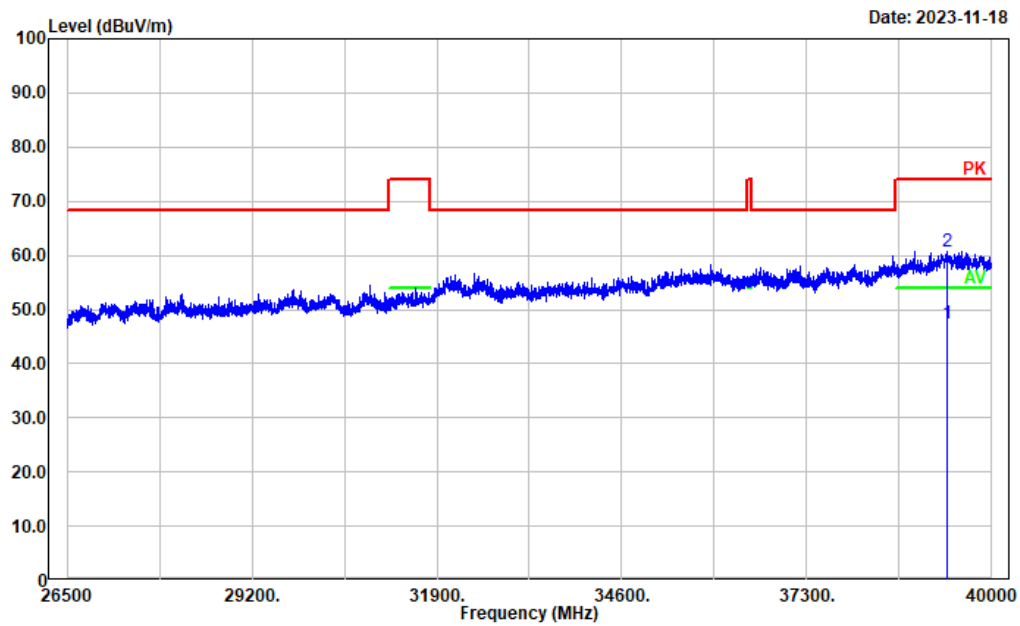
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	25452.590	49.33	0.36	49.69	68.20	18.51	Peak

Project No.: CR231061271
Tester: Tao Zhu
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	26323.160	49.33	0.84	50.17	68.20	18.03	Peak

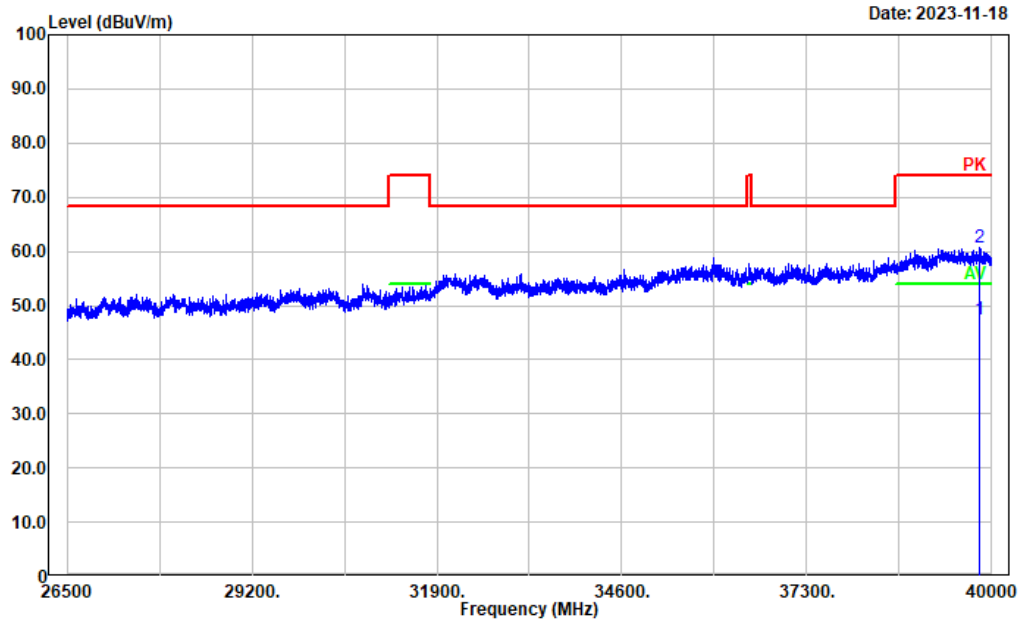
Project No.: CR231061271
Tester: Tao Zhu
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39349.170	37.34	10.18	47.52	54.00	6.48	Average
2	39349.170	50.51	10.18	60.69	74.00	13.31	Peak

Project No.: CR231061271
Tester: Tao Zhu
Polarization: vertical
Note:

Date: 2023-11-18

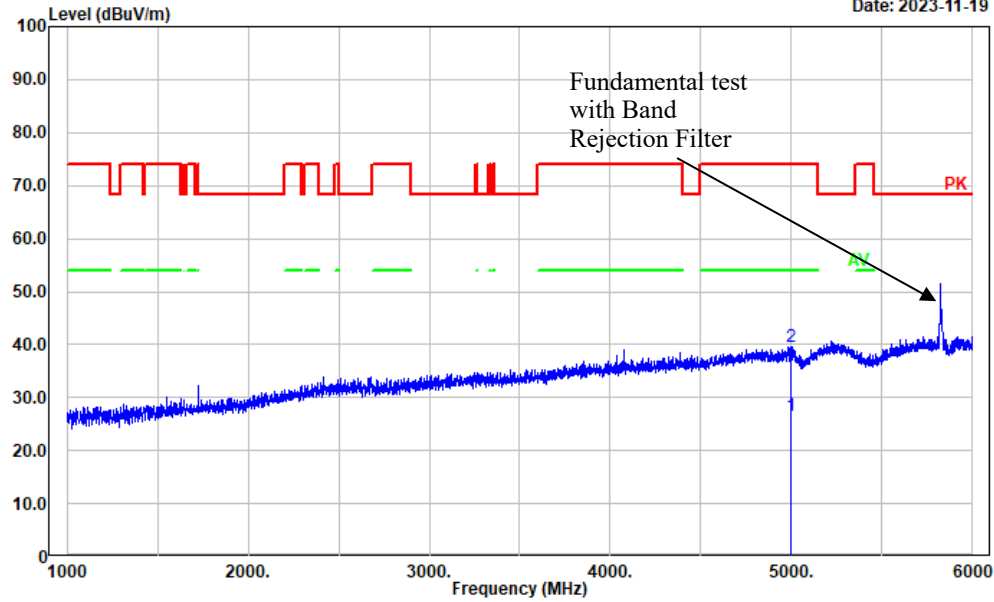


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39813.660	38.49	8.83	47.32	54.00	6.68	Average
2	39813.660	51.76	8.83	60.59	74.00	13.41	Peak

Chain 1:802.11n ht20 mode 5825MHz:

Project No.: CR231061271
Tester: Tao Zhu
Polarization: horizontal
Note:

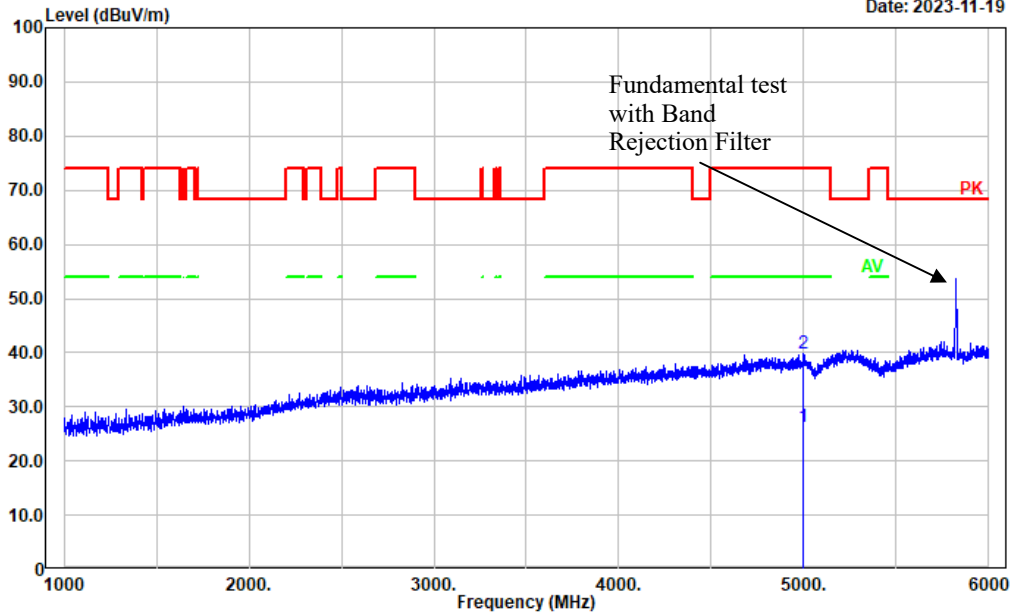
Date: 2023-11-19



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	4997.799	20.76	5.76	26.52	54.00	27.48	Average
2	4997.799	33.75	5.76	39.51	74.00	34.49	Peak

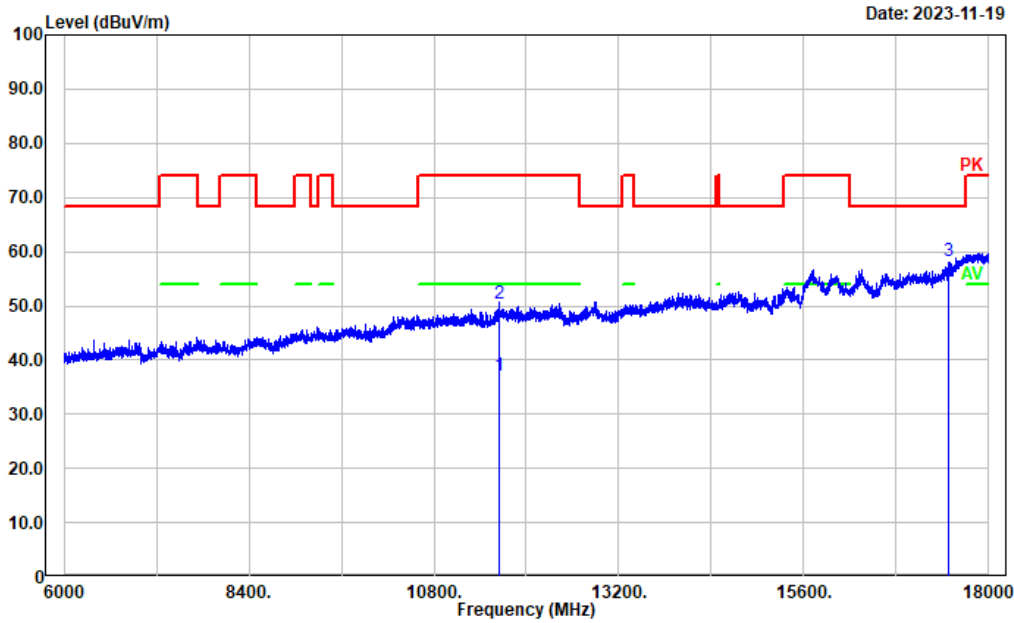
Project No.: CR231061271
Tester: Tao Zhu
Polarization: vertical
Note:

Date: 2023-11-19



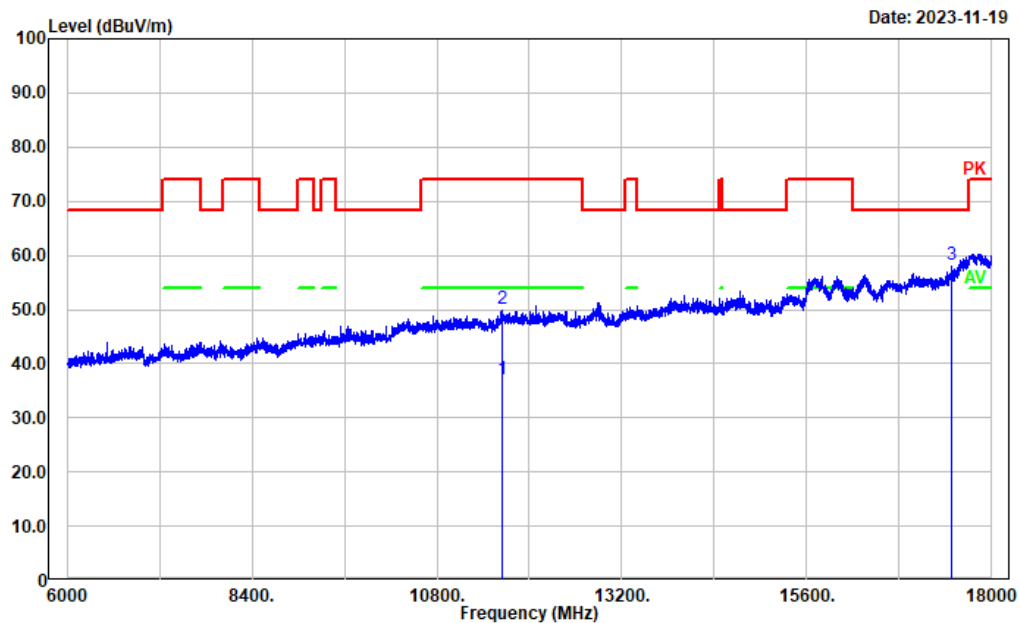
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4997.799	20.61	5.76	26.37	54.00	27.63	Average
2	4997.799	34.05	5.76	39.81	74.00	34.19	Peak

Project No.: CR231061271
Tester: Tao Zhu
Polarization: horizontal
Note:



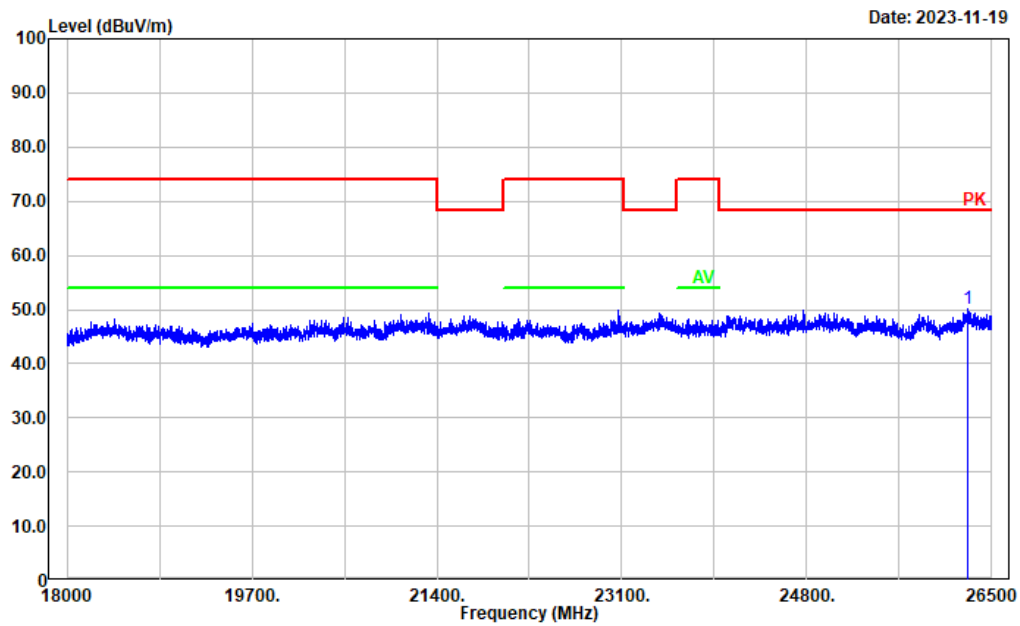
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11650.000	21.20	16.02	37.22	54.00	16.78	Average
2	11650.000	34.26	16.02	50.28	74.00	23.72	Peak
3	17475.000	34.28	23.87	58.15	68.20	10.05	Peak

Project No.: CR231061271
Tester: Tao Zhu
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	11650.000	21.14	16.02	37.16	54.00	16.84	Average
2	11650.000	34.18	16.02	50.20	74.00	23.80	Peak
3	17475.000	34.46	23.87	58.33	68.20	9.87	Peak

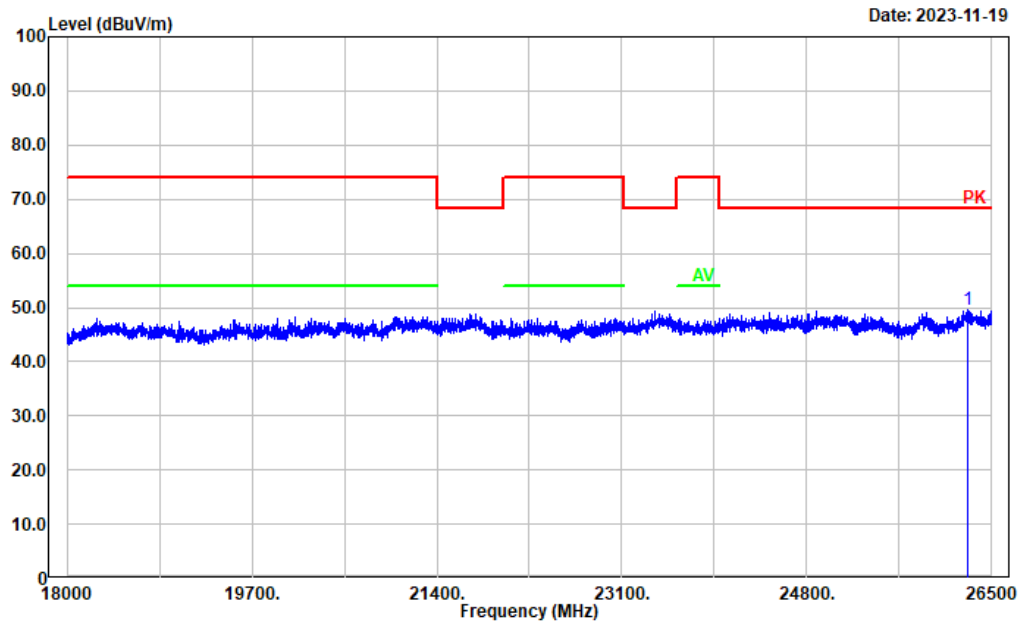
Project No.: CR231061271
Tester: Tao Zhu
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	26275.550	49.20	0.97	50.17	68.20	18.03	Peak

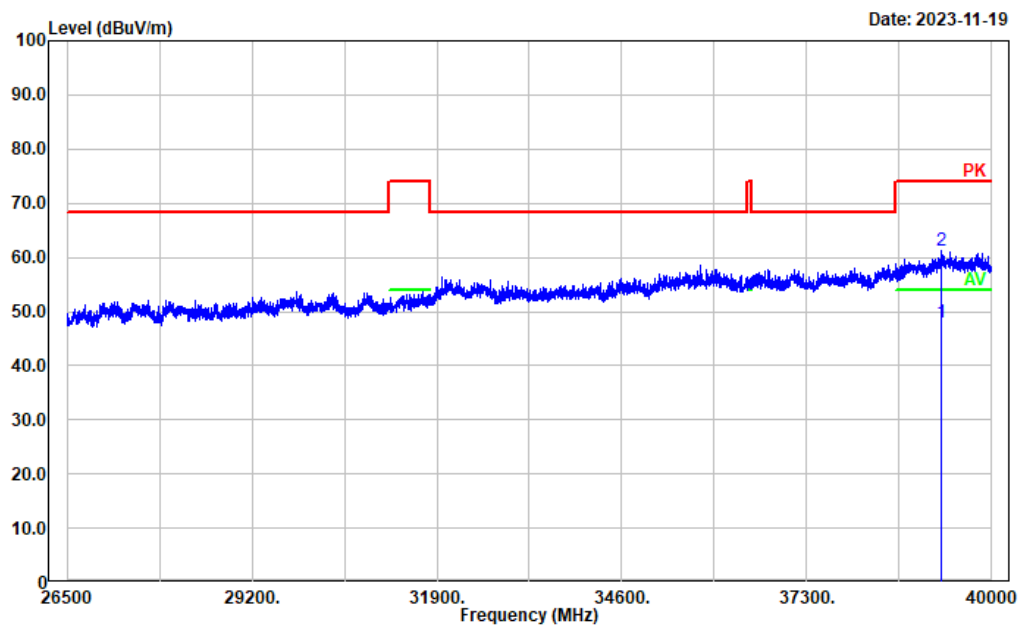
Project No.: CR231061271
Tester: Tao Zhu
Polarization: vertical
Note:

Date: 2023-11-19



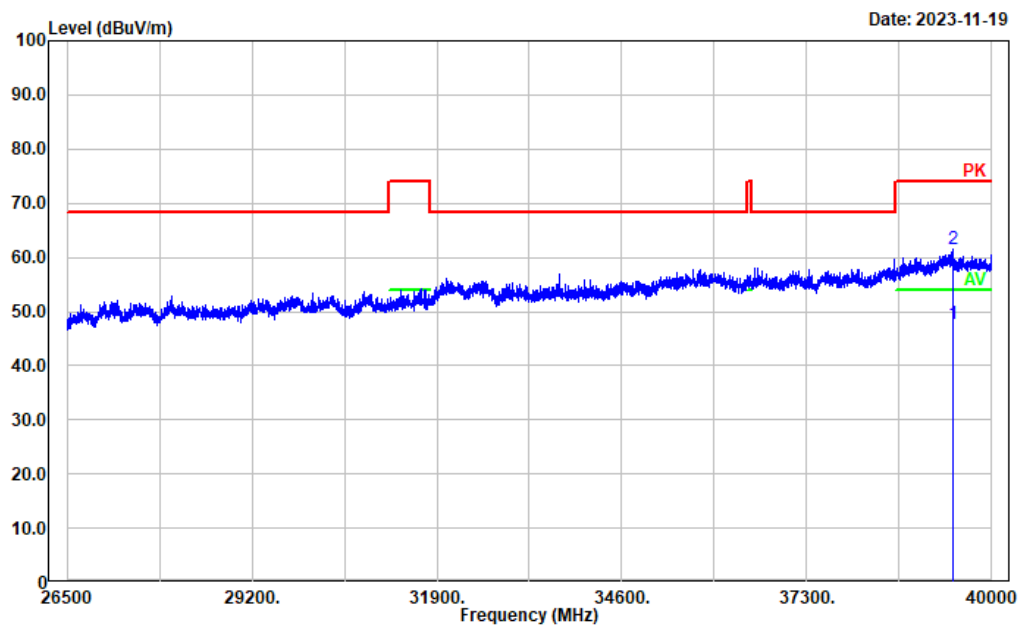
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	26280.660	48.59	0.96	49.55	68.20	18.65	Peak

Project No.: CR231061271
Tester: Tao Zhu
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39268.150	37.72	10.17	47.89	54.00	6.11	Average
2	39268.150	50.99	10.17	61.16	74.00	12.84	Peak

Project No.: CR231061271
Tester: Tao Zhu
Polarization: vertical
Note:



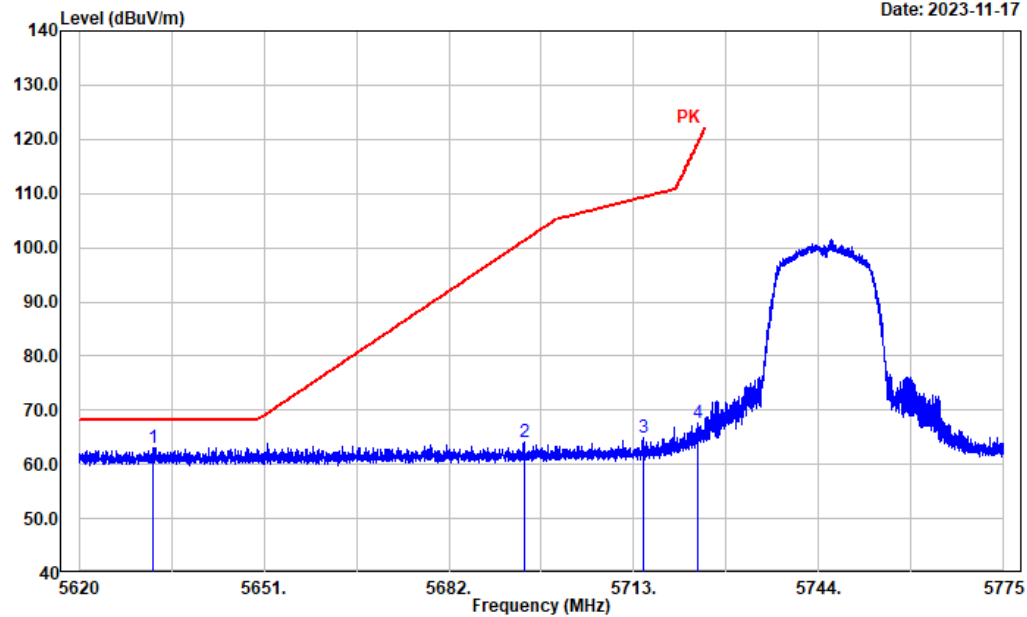
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	39443.690	37.60	10.17	47.77	54.00	6.23	Average
2	39443.690	51.33	10.17	61.50	74.00	12.50	Peak

Test plots for 5.8GHz band Mask Measurements

Chain 0 802.11a 5745MHz

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

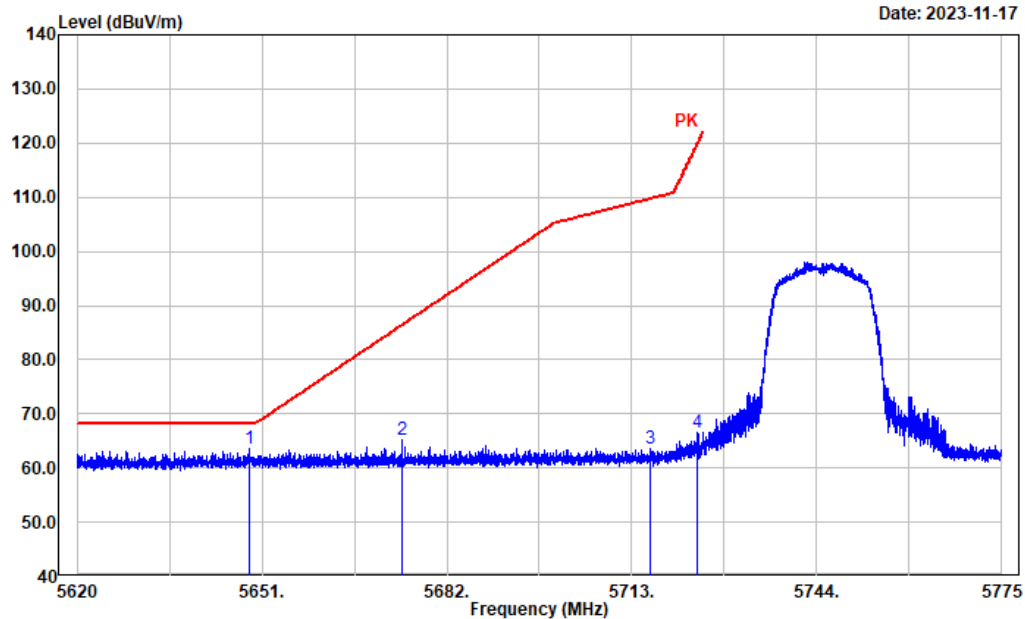
Date: 2023-11-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5632.496	30.24	32.90	63.14	68.20	5.06	Peak
2	5694.632	31.08	33.02	64.10	101.24	37.14	Peak
3	5714.538	31.83	33.03	64.86	109.27	44.41	Peak
4	5723.778	34.61	33.03	67.64	119.41	51.77	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

Date: 2023-11-17

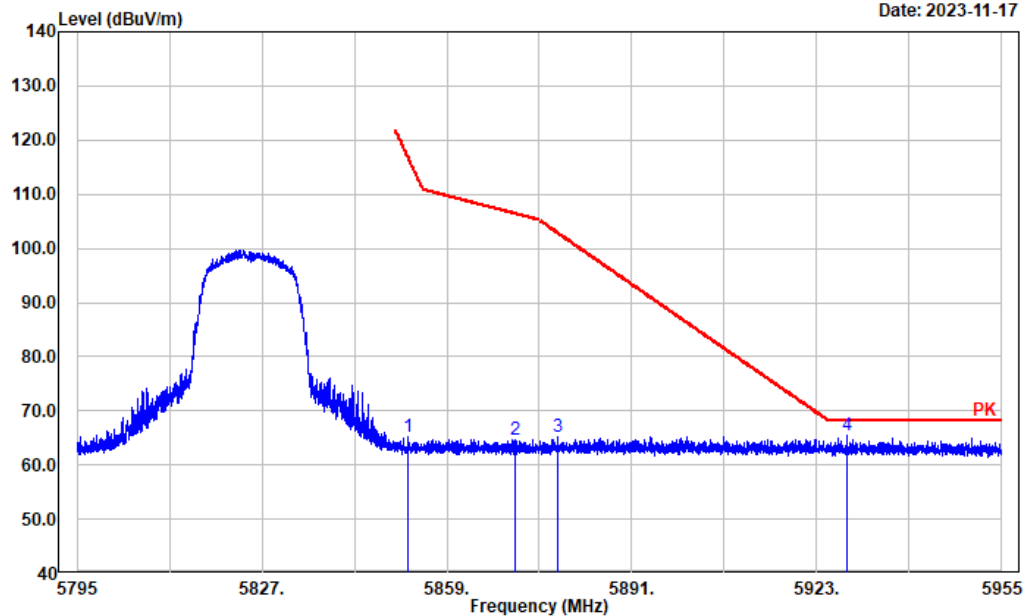


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5648.805	30.54	32.95	63.49	68.20	4.71	Peak
2	5674.478	32.11	32.99	65.10	86.35	21.25	Peak
3	5716.057	30.57	33.03	63.60	109.70	46.10	Peak
4	5723.871	33.54	33.03	66.57	119.63	53.06	Peak

802.11a 5825MHz

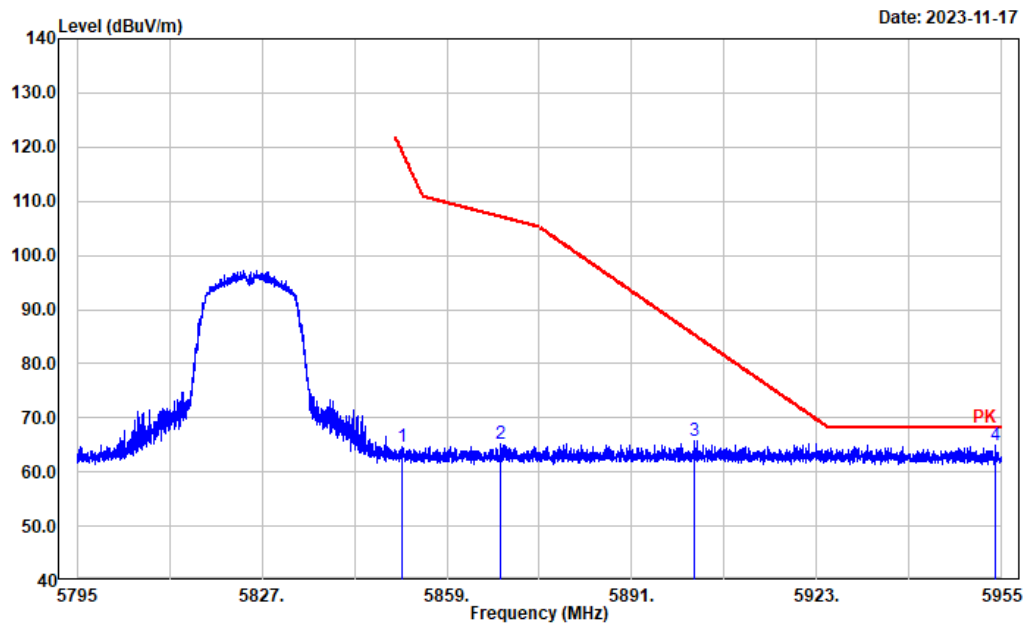
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-17



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	5852.388	32.04	33.20	65.24	116.75	51.51	Peak
2	5870.759	31.45	33.30	64.75	106.39	41.64	Peak
3	5878.088	31.96	33.34	65.30	102.91	37.61	Peak
4	5928.243	31.93	33.47	65.40	68.20	2.80	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

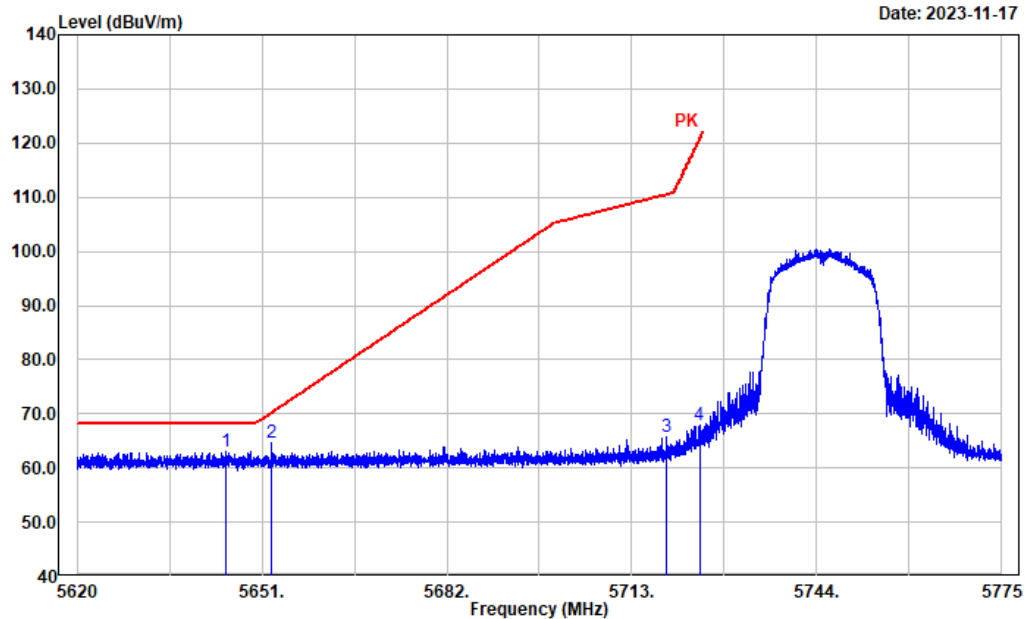


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5851.267	31.39	33.20	64.59	119.31	54.72	Peak
2	5868.199	31.91	33.29	65.20	107.10	41.90	Peak
3	5901.837	32.20	33.47	65.67	85.30	19.63	Peak
4	5953.880	31.38	33.48	64.86	68.20	3.34	Peak

802.11n ht20 5745MHz

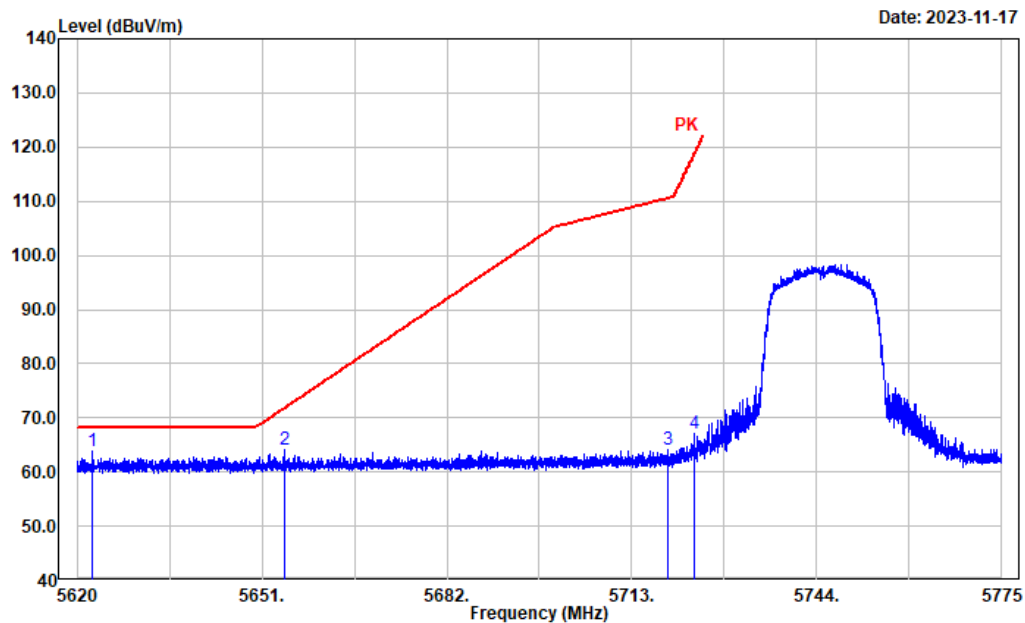
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5645.053	30.15	32.93	63.08	68.20	5.12	Peak
2	5652.681	31.71	32.95	64.66	70.19	5.53	Peak
3	5718.910	32.81	33.03	65.84	110.50	44.66	Peak
4	5724.336	34.75	33.03	67.78	120.69	52.91	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

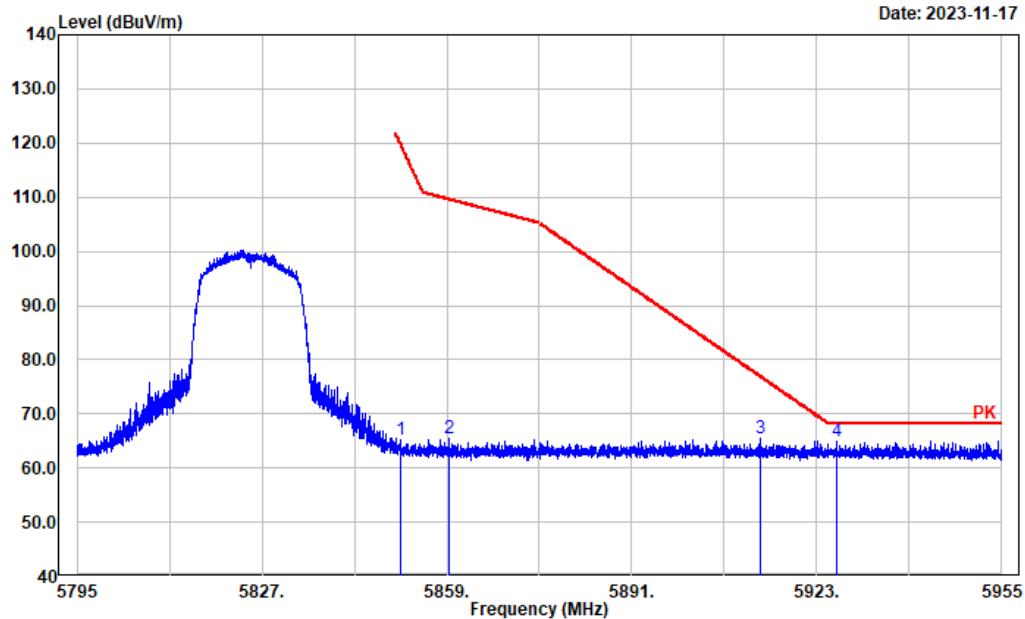


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5622.667	31.02	32.88	63.90	68.20	4.30	Peak
2	5654.696	31.06	32.96	64.02	71.69	7.67	Peak
3	5718.972	31.13	33.03	64.16	110.51	46.35	Peak
4	5723.499	33.96	33.03	66.99	118.78	51.79	Peak

802.11n ht20 5825MHz

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

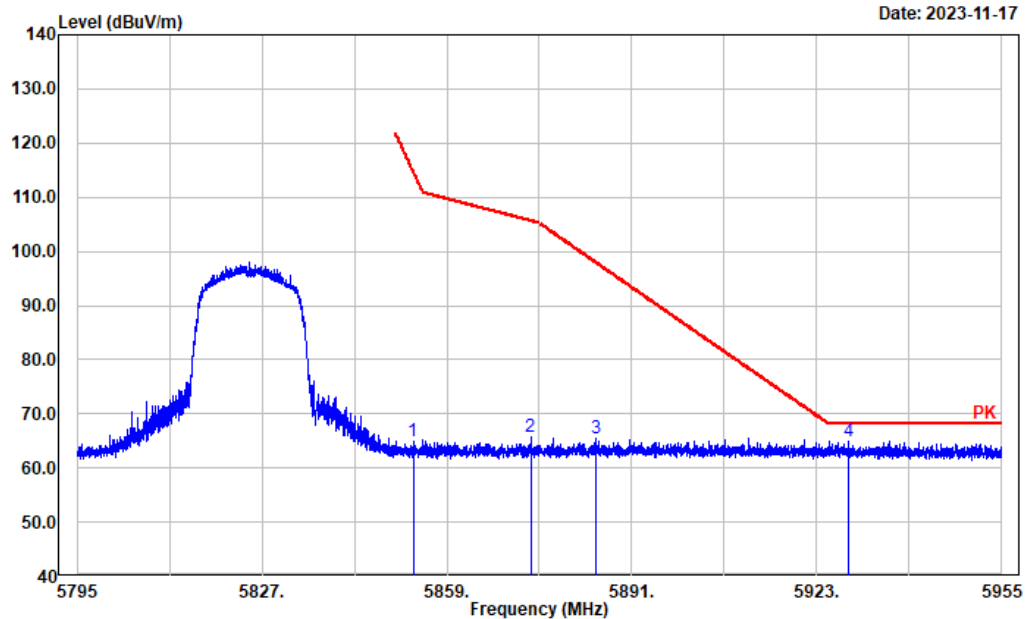
Date: 2023-11-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5850.915	32.10	33.19	65.29	120.11	54.82	Peak
2	5859.333	32.21	33.24	65.45	109.59	44.14	Peak
3	5913.264	31.89	33.47	65.36	76.86	11.50	Peak
4	5926.514	31.52	33.46	64.98	68.20	3.22	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

Date: 2023-11-17

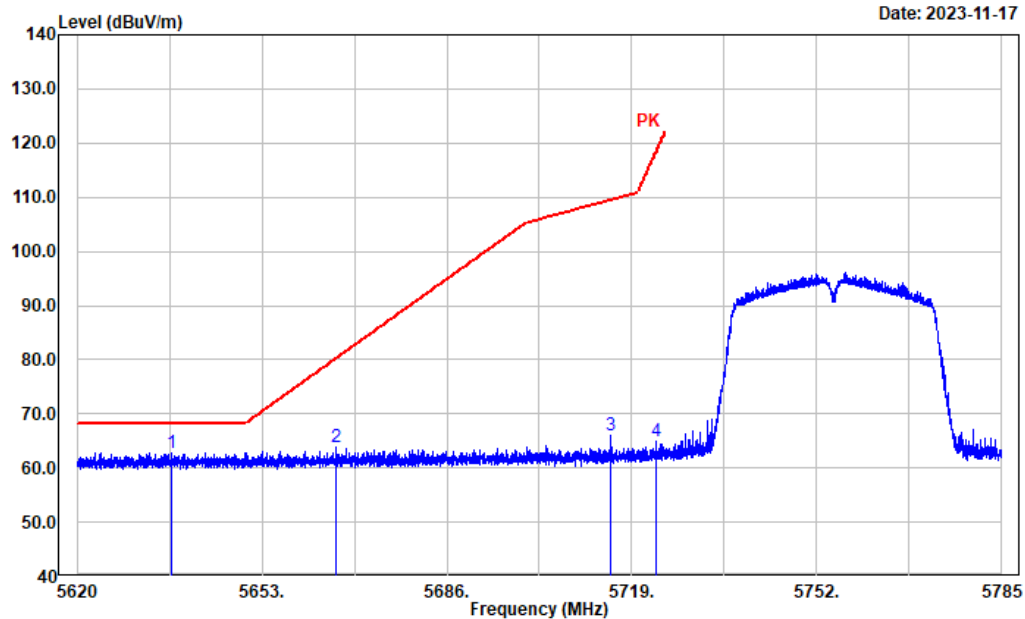


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5853.156	31.76	33.21	64.97	115.00	50.03	Peak
2	5873.479	32.48	33.32	65.80	105.63	39.83	Peak
3	5884.810	32.21	33.39	65.60	97.92	32.32	Peak
4	5928.371	31.43	33.47	64.90	68.20	3.30	Peak

802.11n ht40 5755MHz

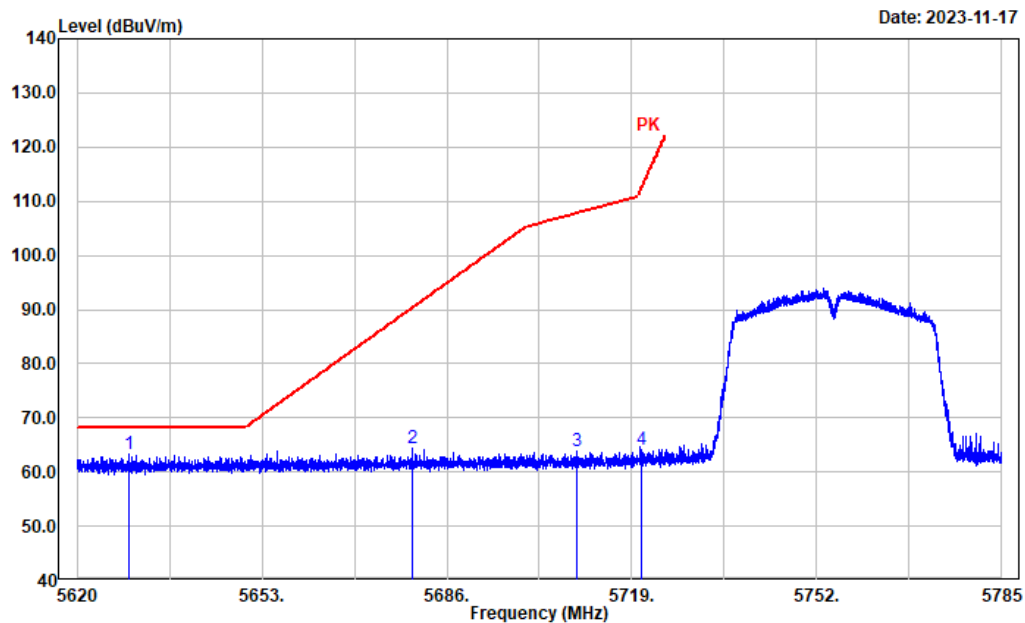
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5636.833	29.88	32.91	62.79	68.20	5.41	Peak
2	5666.176	30.76	32.98	63.74	80.21	16.47	Peak
3	5715.191	32.90	33.03	65.93	109.46	43.53	Peak
4	5723.245	31.77	33.03	64.80	118.20	53.40	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

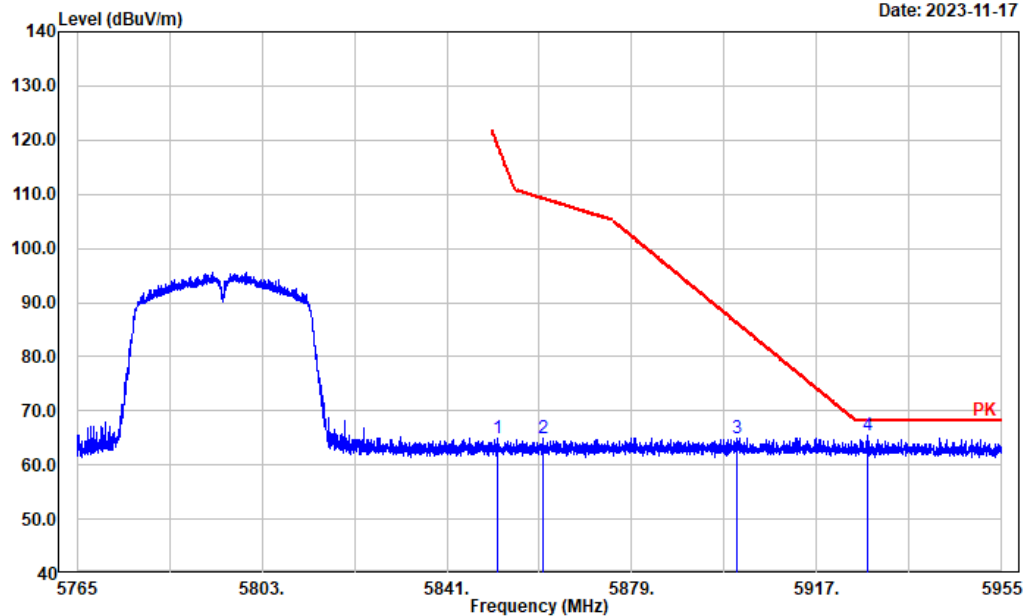


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5629.242	30.33	32.90	63.23	68.20	4.97	Peak
2	5679.742	31.48	33.00	64.48	90.25	25.77	Peak
3	5709.217	30.78	33.03	63.81	107.78	43.97	Peak
4	5720.637	31.06	33.03	64.09	112.25	48.16	Peak

802.11n ht40 5795MHz

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-17



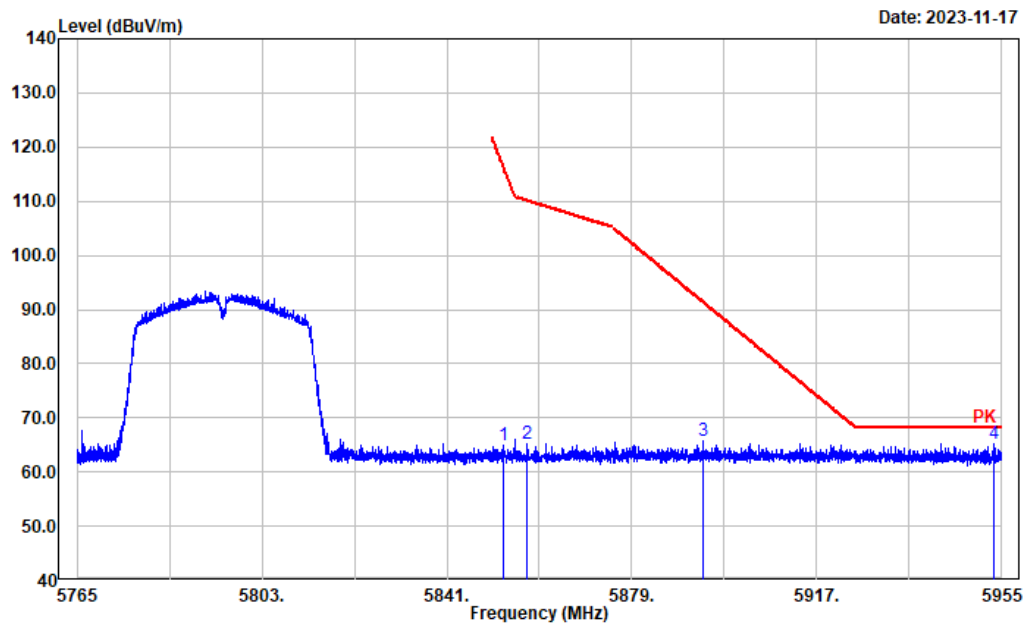
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5851.277	31.82	33.20	65.02	119.29	54.27	Peak
2	5860.627	31.62	33.25	64.87	109.22	44.35	Peak
3	5900.649	31.58	33.47	65.05	86.18	21.13	Peak
4	5927.444	32.01	33.46	65.47	68.20	2.73	Peak

Project No.: CR231061271-RF

Tester: Tao Zhu

Polarization: Vertical

Note:

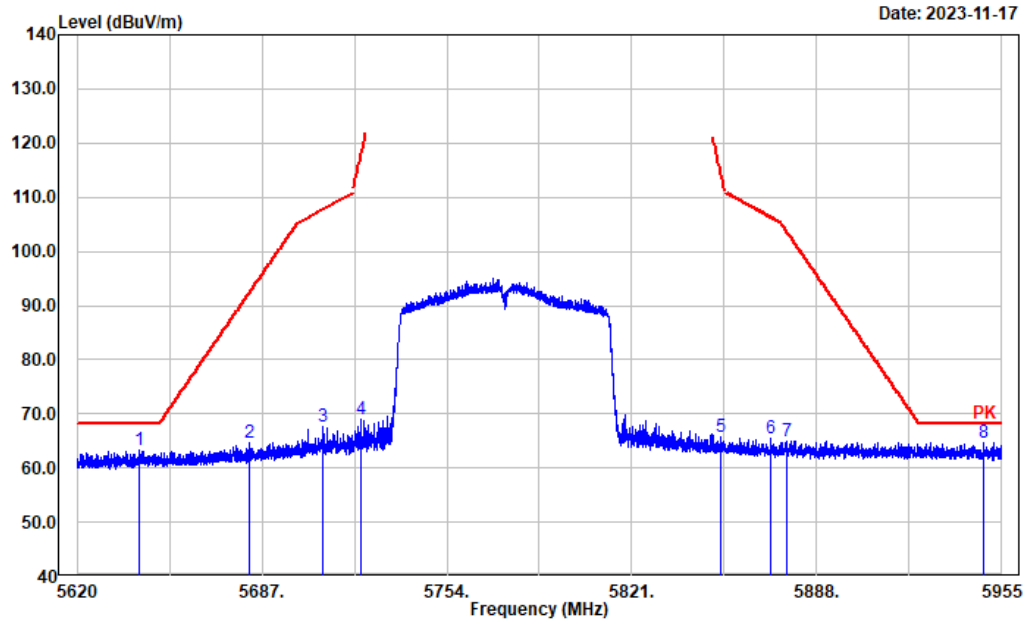


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5852.684	31.83	33.20	65.03	116.08	51.05	Peak
2	5857.473	32.07	33.23	65.30	110.11	44.81	Peak
3	5893.580	32.28	33.43	65.71	91.41	25.70	Peak
4	5953.442	31.74	33.48	65.22	68.20	2.98	Peak

802.11ac vht80 5775MHz

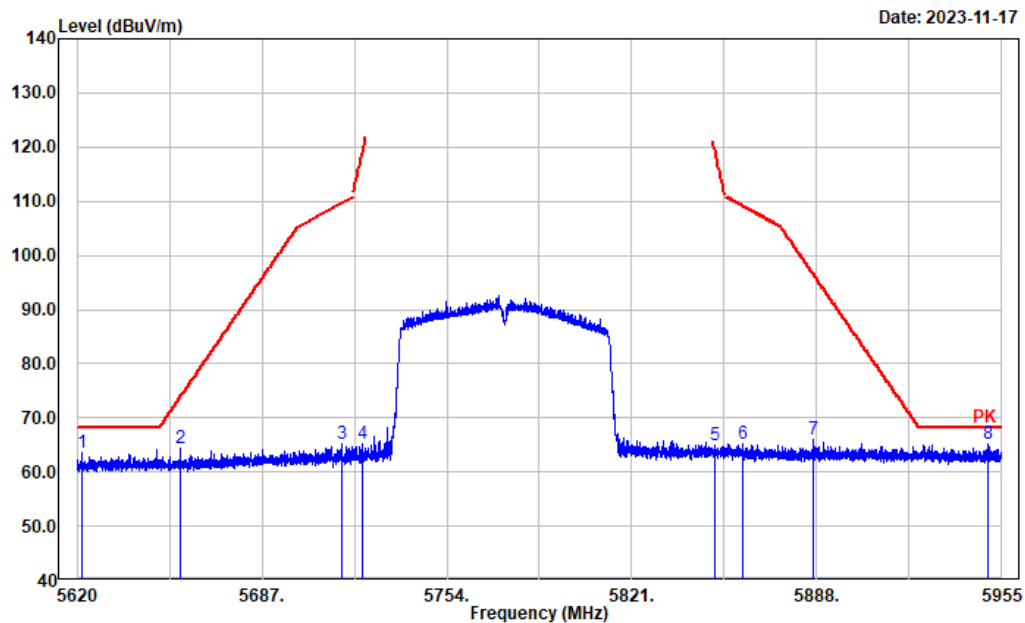
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5642.517	30.33	32.93	63.26	68.20	4.94	Peak
2	5682.523	31.63	33.00	64.63	92.30	27.67	Peak
3	5708.927	34.62	33.03	67.65	107.70	40.05	Peak
4	5723.000	36.08	33.03	69.11	117.64	48.53	Peak
5	5853.140	32.67	33.21	65.88	115.04	49.16	Peak
6	5871.501	32.29	33.31	65.60	106.18	40.58	Peak
7	5876.997	31.65	33.34	64.99	103.72	38.73	Peak
8	5948.433	31.15	33.46	64.61	68.20	3.59	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

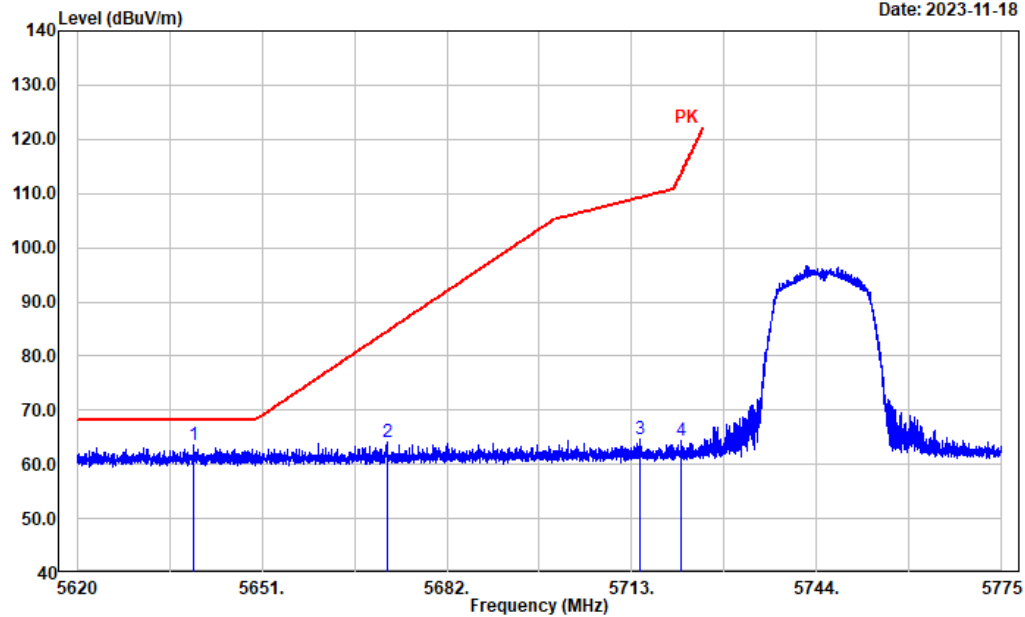


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5621.742	30.64	32.87	63.51	68.20	4.69	Peak
2	5657.327	31.43	32.96	64.39	73.64	9.25	Peak
3	5715.829	32.25	33.03	65.28	109.63	44.35	Peak
4	5723.469	32.20	33.03	65.23	118.71	53.48	Peak
5	5850.861	31.80	33.19	64.99	120.24	55.25	Peak
6	5861.047	31.93	33.25	65.18	109.10	43.92	Peak
7	5886.847	32.64	33.40	66.04	96.40	30.36	Peak
8	5950.242	31.75	33.46	65.21	68.20	2.99	Peak

Chain 1:
802.11a 5745MHz

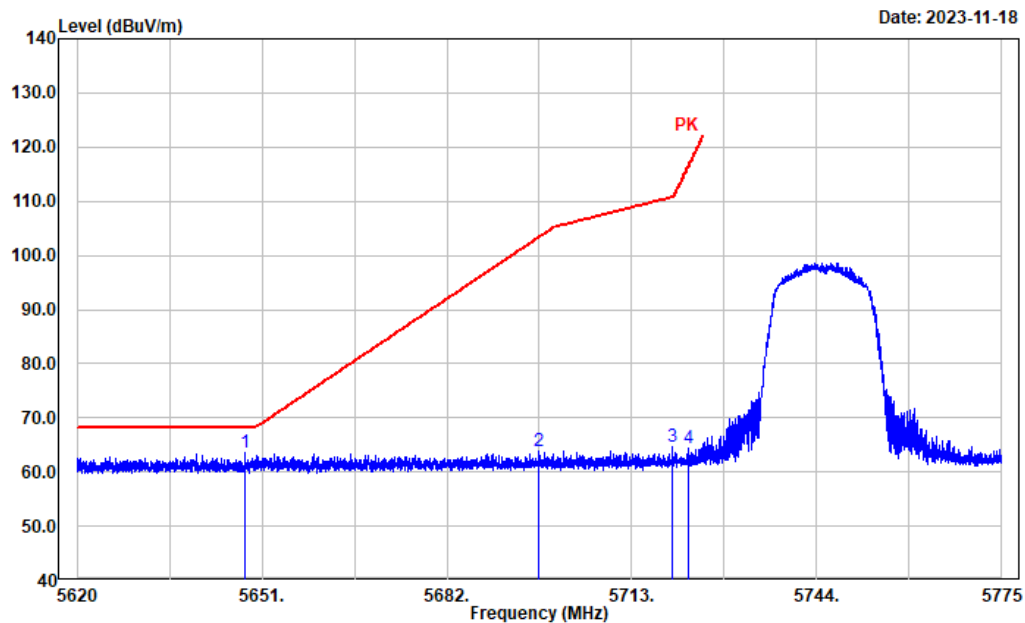
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5639.565	30.75	32.92	63.67	68.20	4.53	Peak
2	5672.090	31.12	32.99	64.11	84.59	20.48	Peak
3	5714.290	31.51	33.03	64.54	109.20	44.66	Peak
4	5721.297	31.25	33.03	64.28	113.76	49.48	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

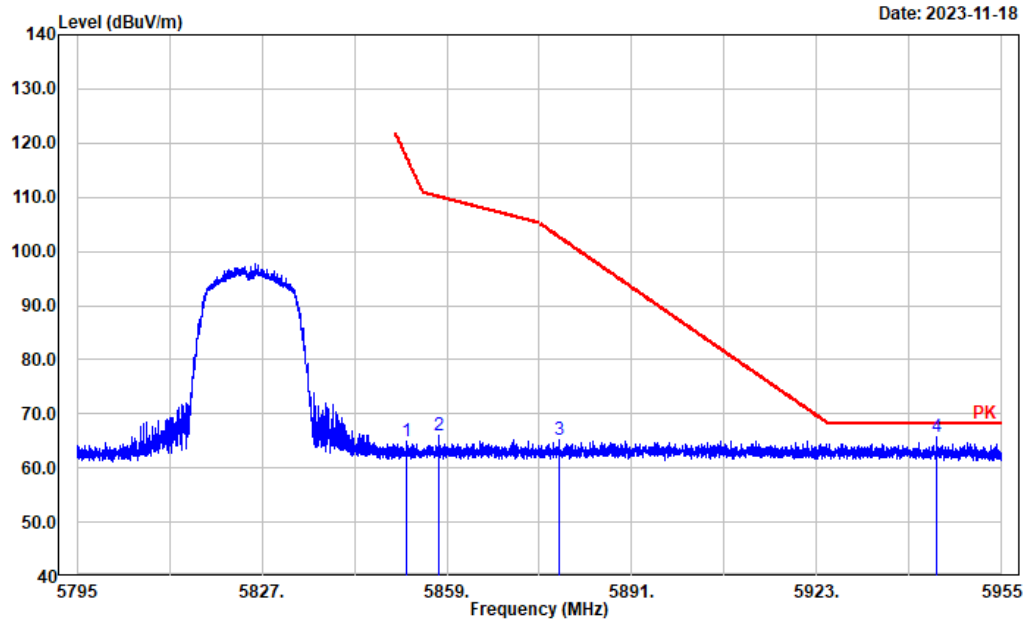


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5648.247	30.66	32.95	63.61	68.20	4.59	Peak
2	5697.454	30.90	33.03	63.93	103.32	39.39	Peak
3	5719.747	31.61	33.03	64.64	110.73	46.09	Peak
4	5722.382	31.38	33.03	64.41	116.23	51.82	Peak

802.11a 5825MHz

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

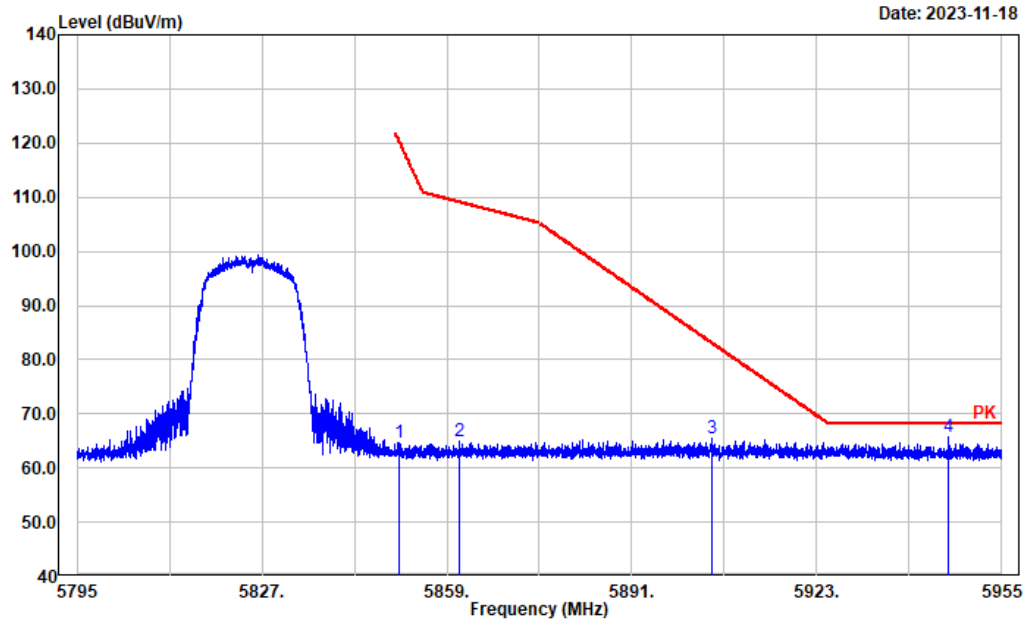
Date: 2023-11-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5852.067	31.80	33.20	65.00	117.49	52.49	Peak
2	5857.508	32.78	33.23	66.01	110.10	44.09	Peak
3	5878.473	31.91	33.35	65.26	102.62	37.36	Peak
4	5943.670	32.16	33.46	65.62	68.20	2.58	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

Date: 2023-11-18

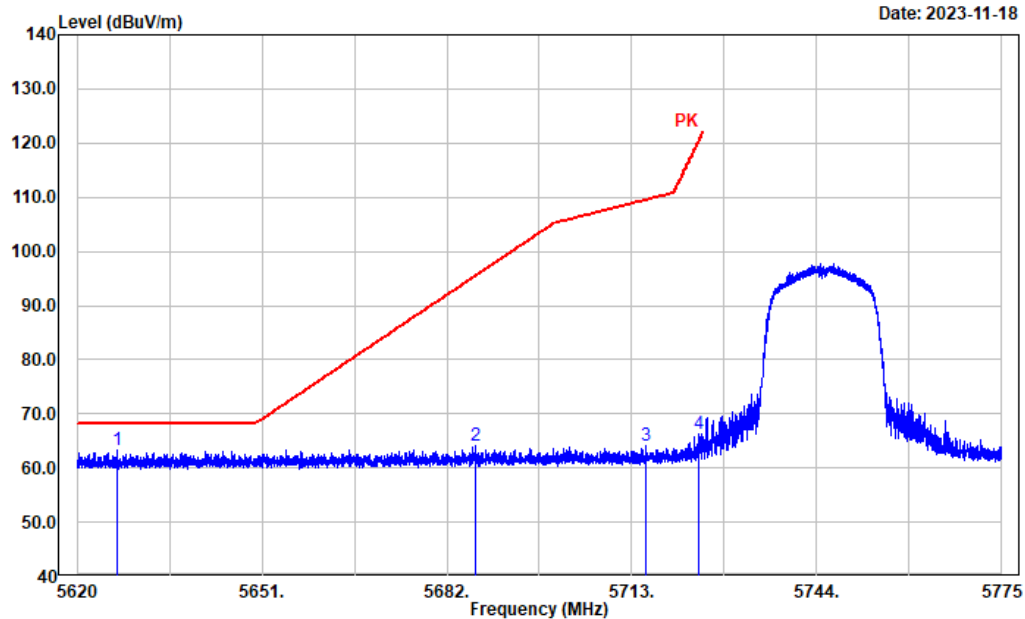


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5850.627	31.54	33.19	64.73	120.77	56.04	Peak
2	5861.157	31.64	33.25	64.89	109.07	44.18	Peak
3	5904.974	31.91	33.47	65.38	82.98	17.60	Peak
4	5945.878	32.32	33.46	65.78	68.20	2.42	Peak

802.11n ht20 5745MHz

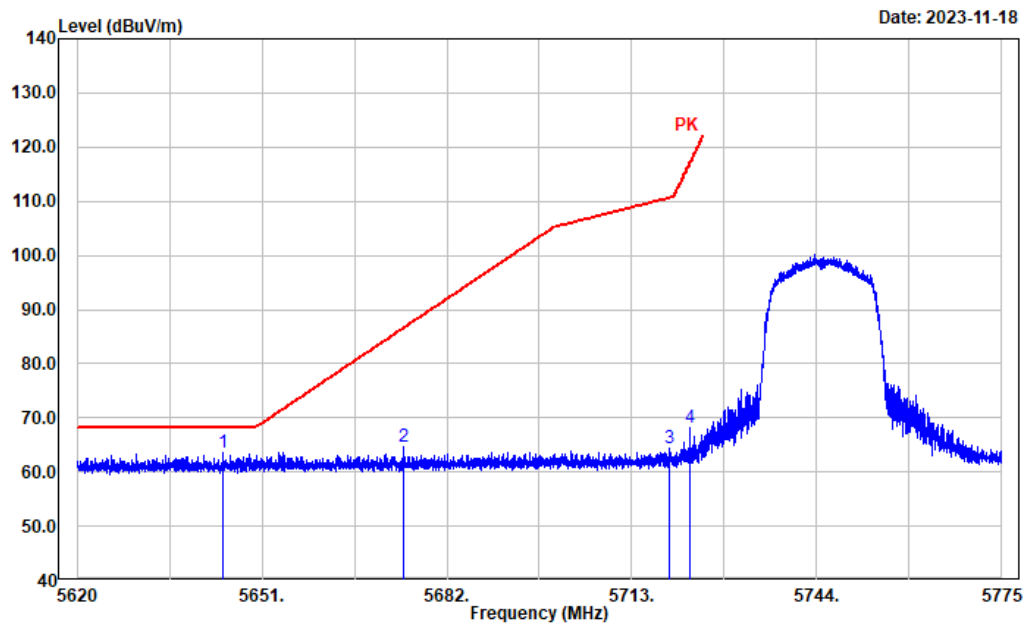
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-18



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	5626.667	30.42	32.88	63.30	68.20	4.90	Peak
2	5686.694	31.08	33.01	64.09	95.39	31.30	Peak
3	5715.282	31.08	33.03	64.11	109.48	45.37	Peak
4	5724.119	33.36	33.03	66.39	120.19	53.80	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

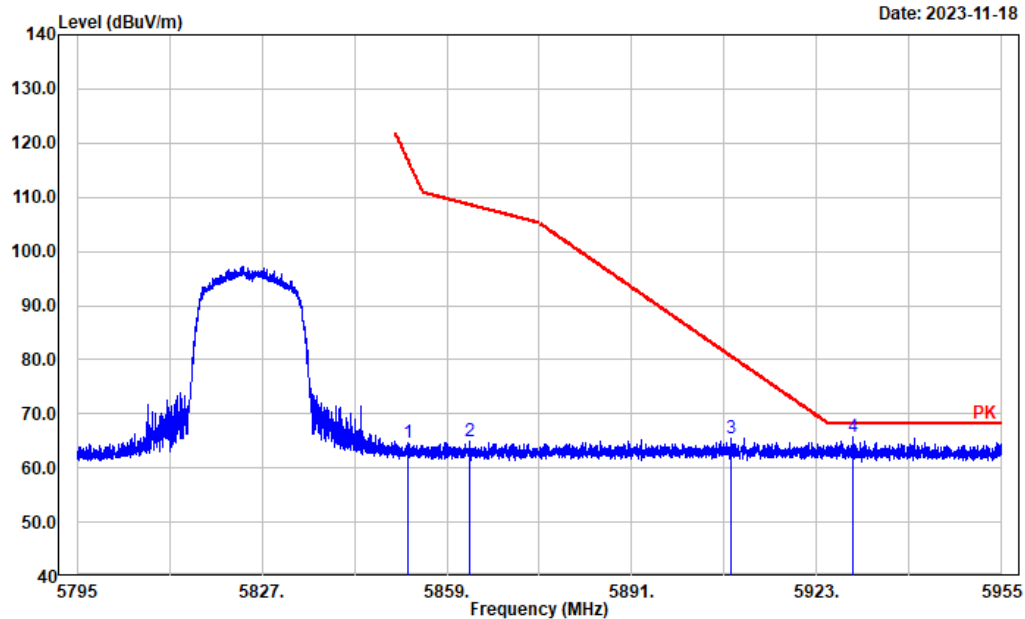


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5644.433	30.56	32.93	63.49	68.20	4.71	Peak
2	5674.695	31.59	32.99	64.58	86.51	21.93	Peak
3	5719.344	31.38	33.03	64.41	110.62	46.21	Peak
4	5722.786	35.05	33.03	68.08	117.15	49.07	Peak

802.11n ht20 5825MHz

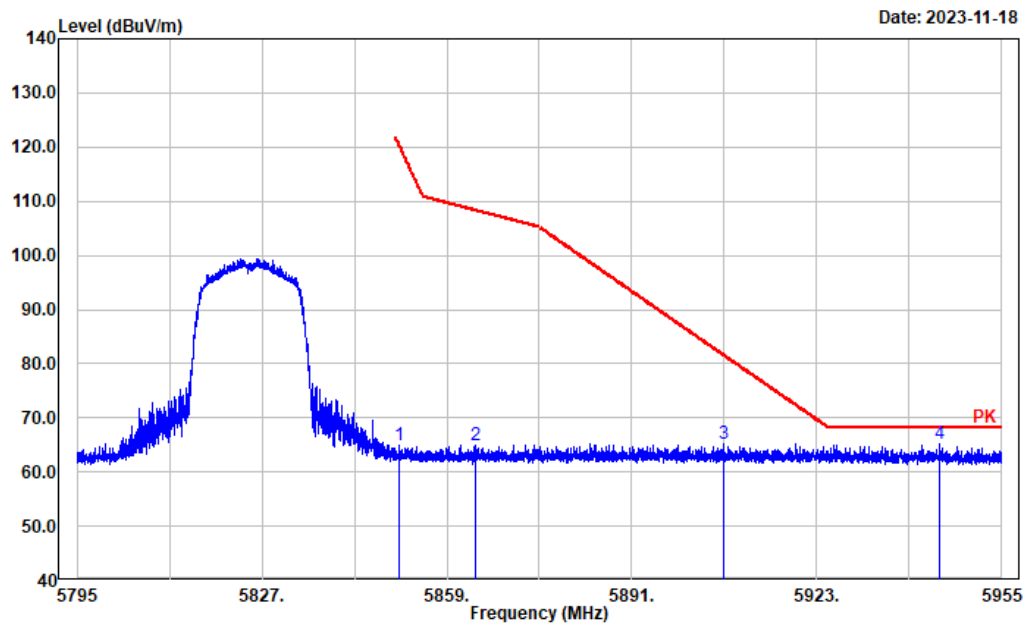
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-18



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	5852.228	31.33	33.20	64.53	117.12	52.59	Peak
2	5862.950	31.60	33.26	64.86	108.57	43.71	Peak
3	5908.271	32.09	33.47	65.56	80.54	14.98	Peak
4	5929.139	32.32	33.47	65.79	68.20	2.41	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

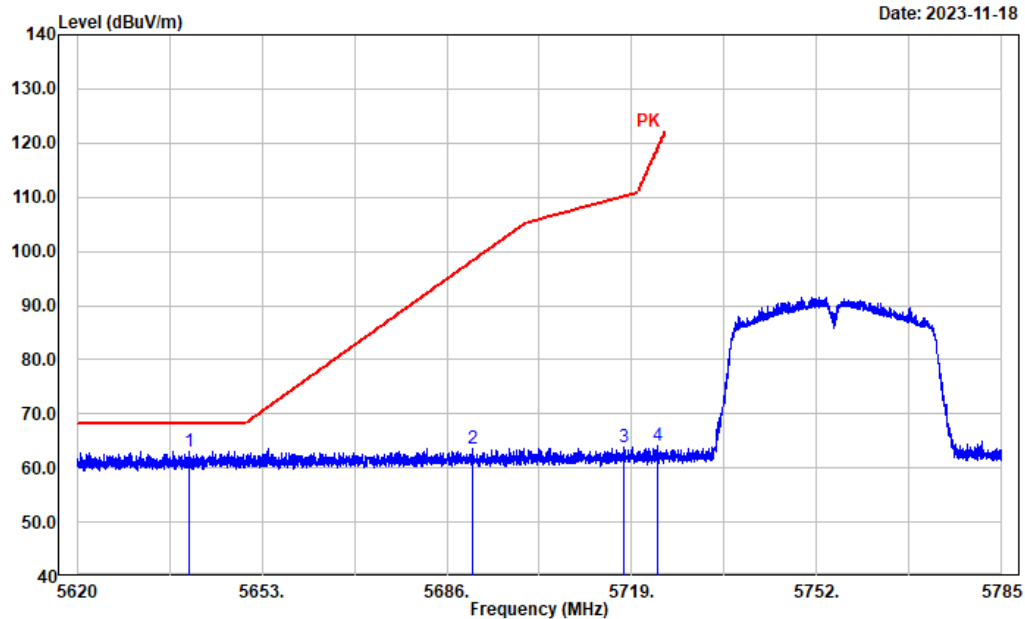


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5850.787	31.79	33.19	64.98	120.40	55.42	Peak
2	5864.006	31.69	33.27	64.96	108.28	43.32	Peak
3	5906.798	31.68	33.47	65.15	81.63	16.48	Peak
4	5944.342	31.84	33.46	65.30	68.20	2.90	Peak

802.11n ht40 5755MHz

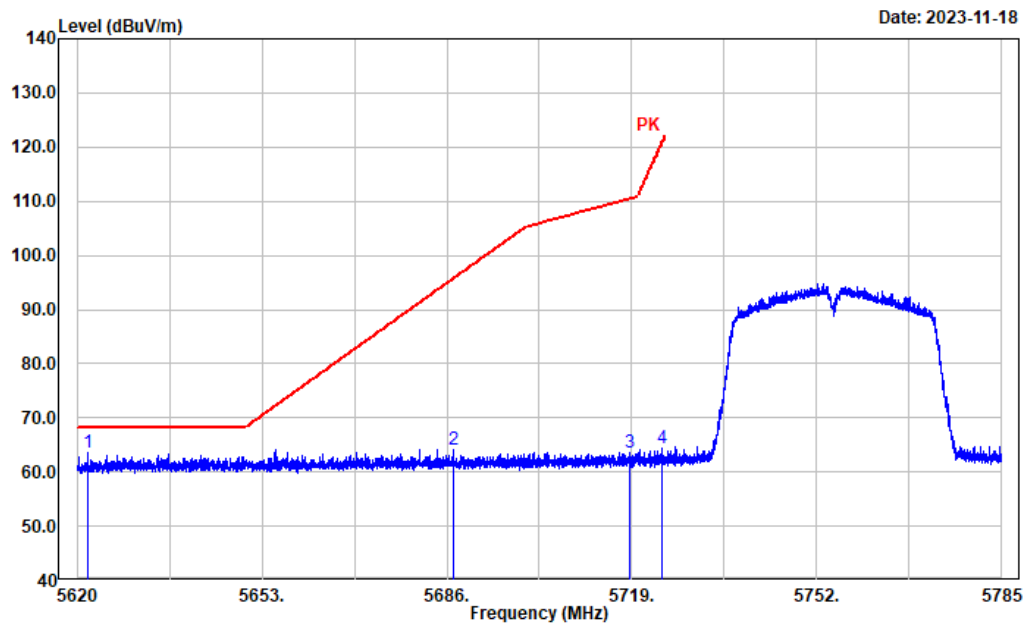
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-18



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5639.969	30.24	32.92	63.16	68.20	5.04	Peak
2	5690.667	30.61	33.02	63.63	98.32	34.69	Peak
3	5717.501	30.75	33.03	63.78	110.10	46.32	Peak
4	5723.674	31.18	33.03	64.21	119.18	54.97	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

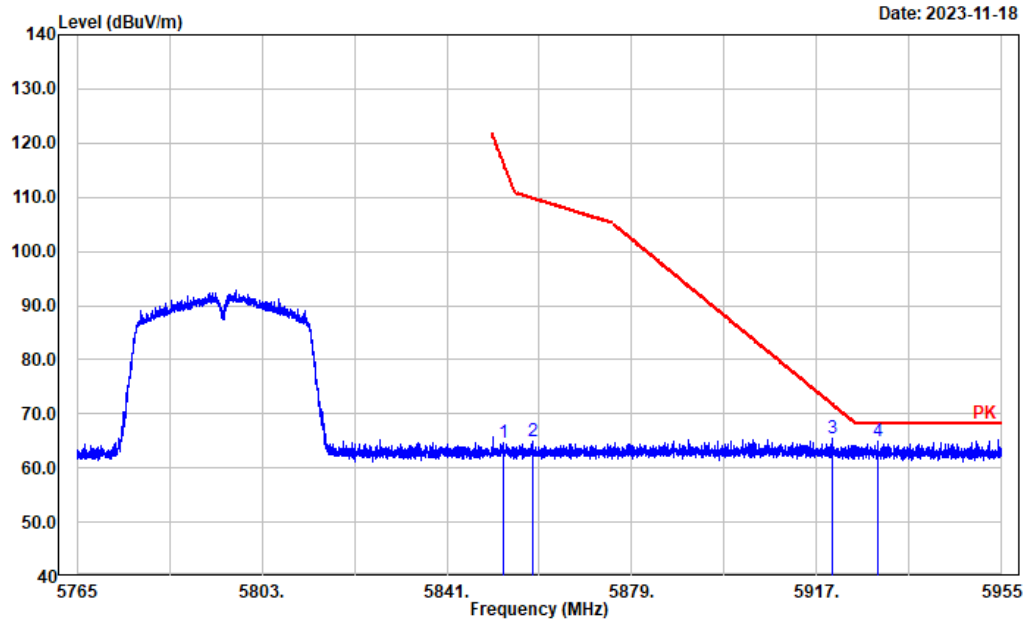


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5621.848	30.59	32.87	63.46	68.20	4.74	Peak
2	5687.069	31.17	33.01	64.18	95.66	31.48	Peak
3	5718.723	30.60	33.03	63.63	110.44	46.81	Peak
4	5724.268	31.43	33.03	64.46	120.53	56.07	Peak

802.11n ht40 5795MHz

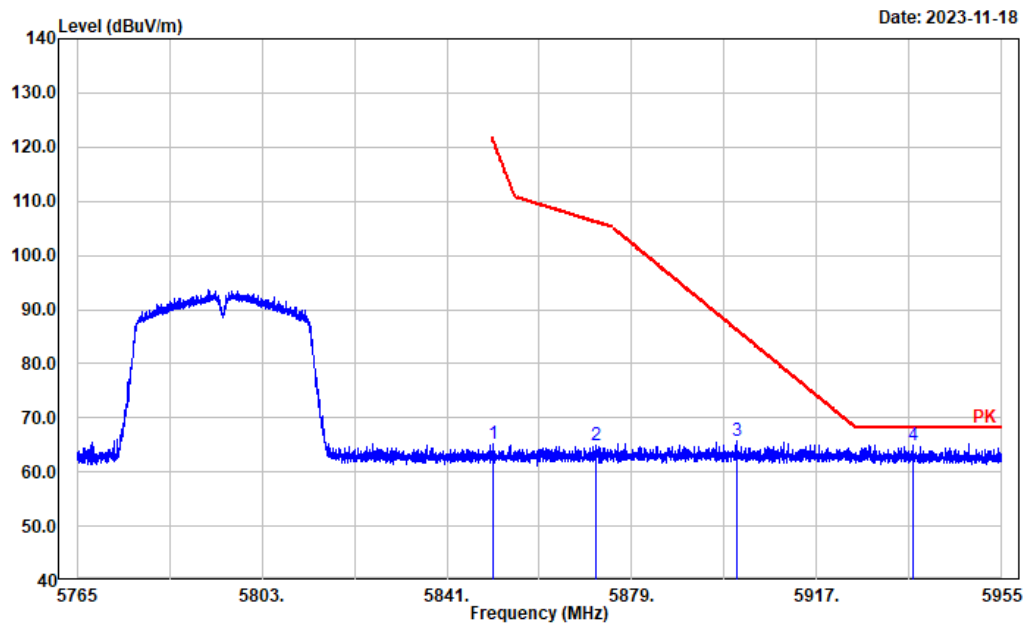
Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

Date: 2023-11-18



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	5852.607	31.38	33.20	64.58	116.25	51.67	Peak
2	5858.537	31.58	33.23	64.81	109.81	45.00	Peak
3	5920.071	31.95	33.46	65.41	71.83	6.42	Peak
4	5929.497	31.58	33.47	65.05	68.20	3.15	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

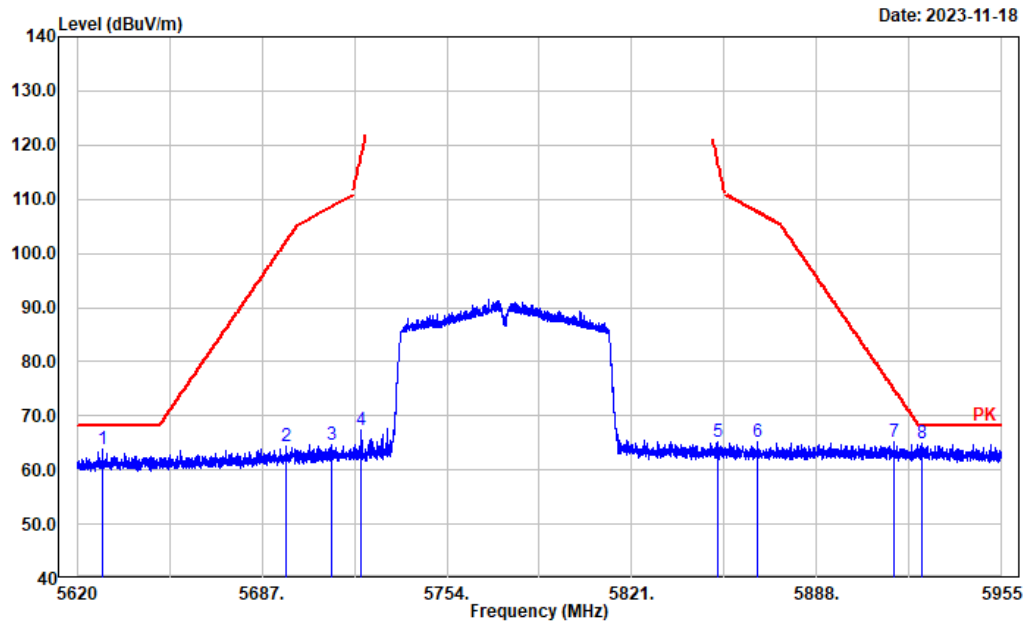


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5850.631	31.97	33.19	65.16	120.76	55.60	Peak
2	5871.688	31.69	33.31	65.00	106.13	41.13	Peak
3	5900.687	32.32	33.47	65.79	86.15	20.36	Peak
4	5936.833	31.57	33.46	65.03	68.20	3.17	Peak

802.11ac vht80 5775MHz

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

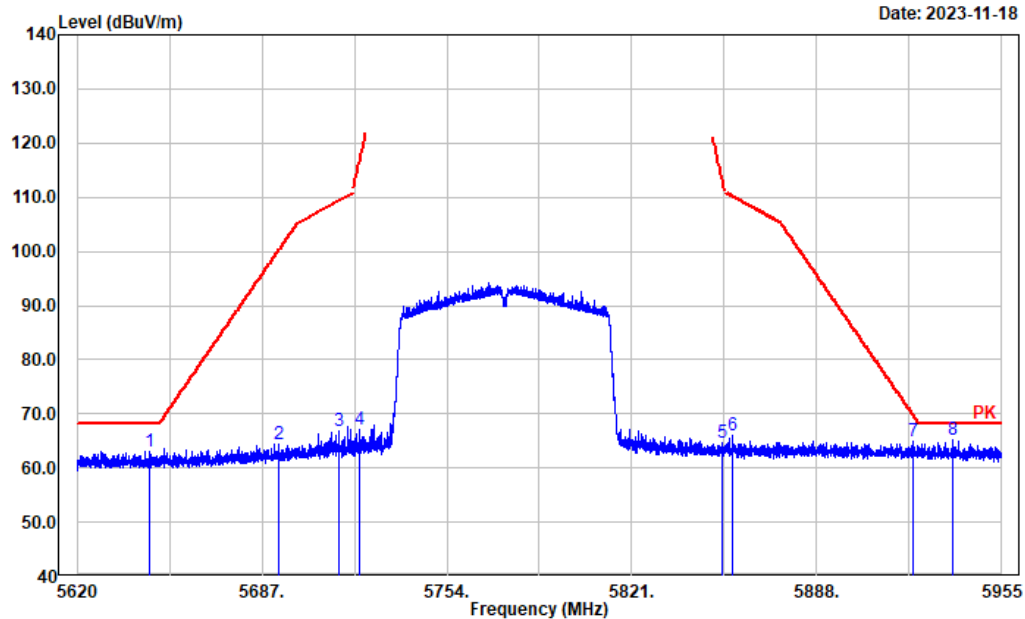
Date: 2023-11-18



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	5629.315	30.85	32.90	63.75	68.20	4.45	Peak
2	5695.926	31.31	33.02	64.33	102.20	37.87	Peak
3	5712.479	31.73	33.03	64.76	108.70	43.94	Peak
4	5723.066	34.30	33.03	67.33	117.79	50.46	Peak
5	5852.134	32.12	33.20	65.32	117.33	52.01	Peak
6	5866.475	31.98	33.29	65.27	107.58	42.31	Peak
7	5916.132	31.70	33.47	65.17	74.74	9.57	Peak
8	5926.184	31.36	33.46	64.82	68.20	3.38	Peak

Project No.: CR231061271-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

Date: 2023-11-18



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	5646.269	30.11	32.94	63.05	68.20	5.15	Peak
2	5693.112	31.48	33.02	64.50	100.12	35.62	Peak
3	5715.025	33.77	33.03	66.80	109.41	42.61	Peak
4	5722.263	34.17	33.03	67.20	115.96	48.76	Peak
5	5853.542	31.58	33.21	64.79	114.12	49.33	Peak
6	5857.697	32.76	33.23	65.99	110.04	44.05	Peak
7	5922.968	31.54	33.47	65.01	69.70	4.69	Peak
8	5937.241	31.74	33.46	65.20	68.20	3.00	Peak

4.3 Emission Bandwidth:

Serial Number:	2CGI-2	Test Date:	2023/10/30~2023/11/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~26.7	Relative Humidity: (%)	45~52	ATM Pressure: (kPa)	100.9~101.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	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:

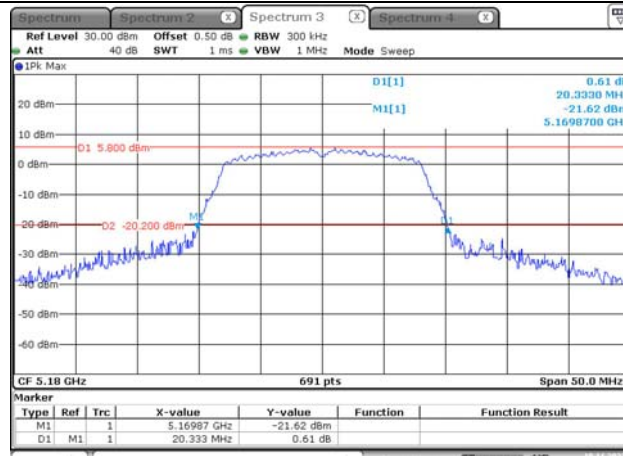
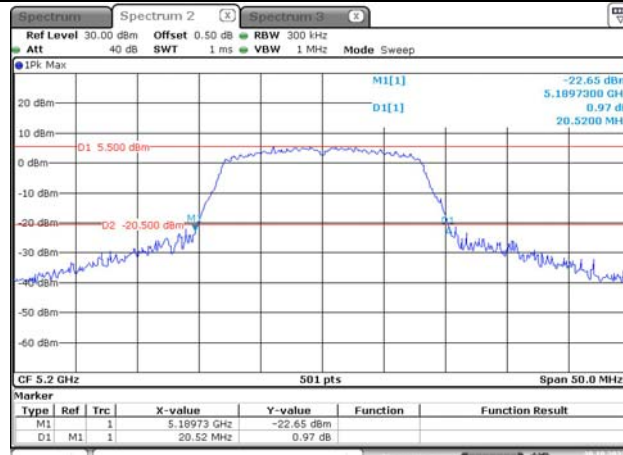
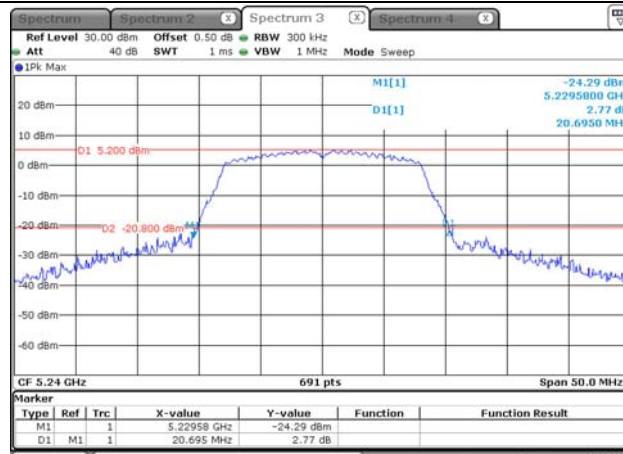
Test Modes	Test Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5180	20.33	16.77
	5200	20.52	16.85
	5240	20.70	16.85
802.11n ht20	5180	20.84	17.80
	5200	20.62	17.80
	5240	20.84	17.80
802.11n ht40	5190	41.39	36.73
	5230	41.39	36.89
802.11ac vht80	5210	81.62	75.37
Note: Test only was performed at Chain 0. 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:

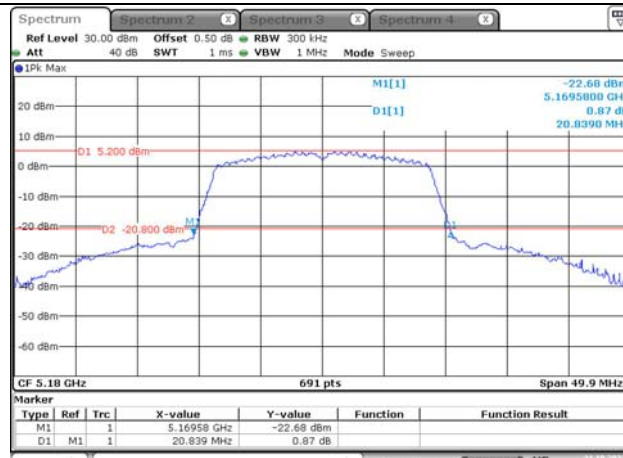
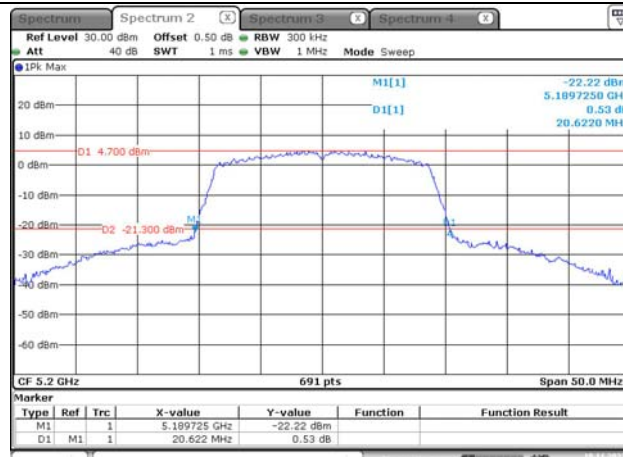
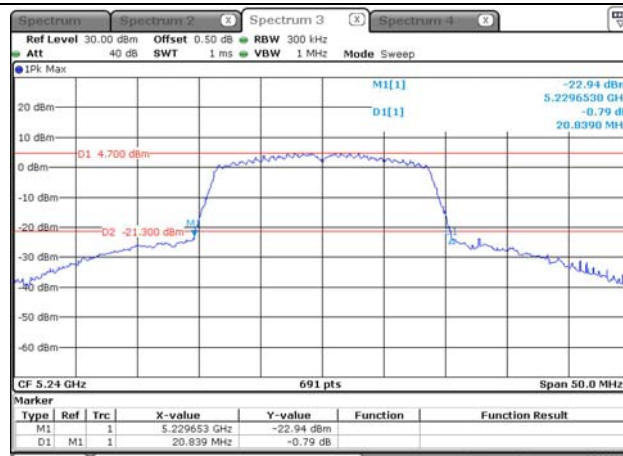
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5745	15.69	17.01
	5785	15.75	17.09
	5825	15.51	17.09
802.11n ht20	5745	15.22	17.96
	5785	15.75	17.96
	5825	16.38	18.04
802.11n ht40	5755	35.43	37.21
	5795	35.57	37.21
802.11ac vht80	5775	75.95	75.69
Note: Test only was performed at Chain 0. 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:

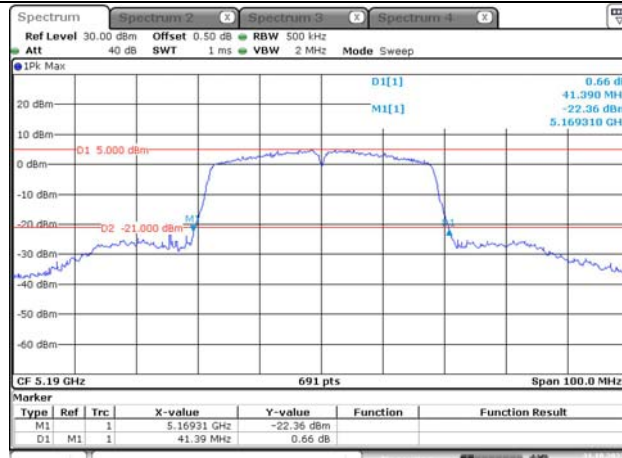
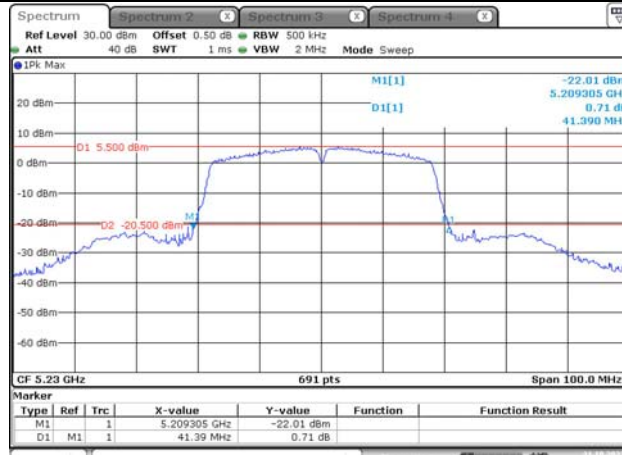
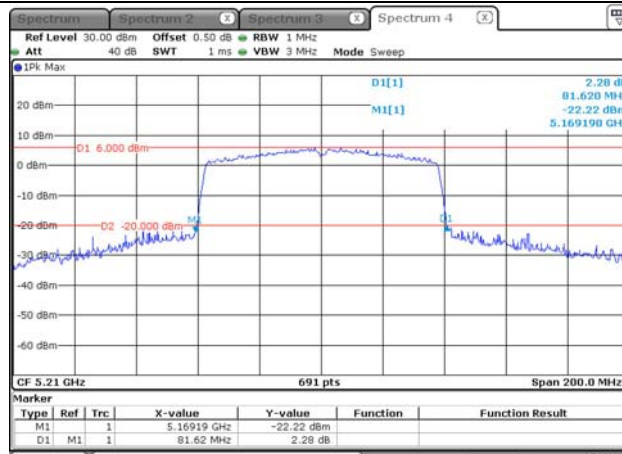
26dB Emission Bandwidth

802.11a
Lowest ChannelProjectNo.:CR231061271 Testers:Jou Zhou
Date: 18.NOV.2023 13:21:12802.11a
Middle ChannelProjectNo.:CR231061271 Testers:Jou Zhou
Date: 30.OCT.2023 19:23:49802.11a
Highest ChannelProjectNo.:CR231061271 Testers:Jou Zhou
Date: 18.NOV.2023 13:18:42

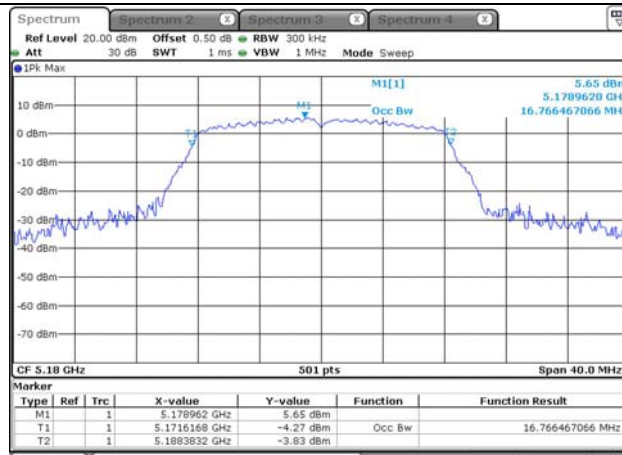
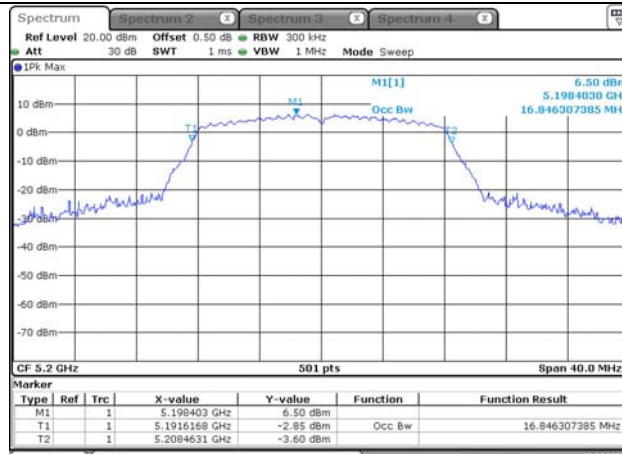
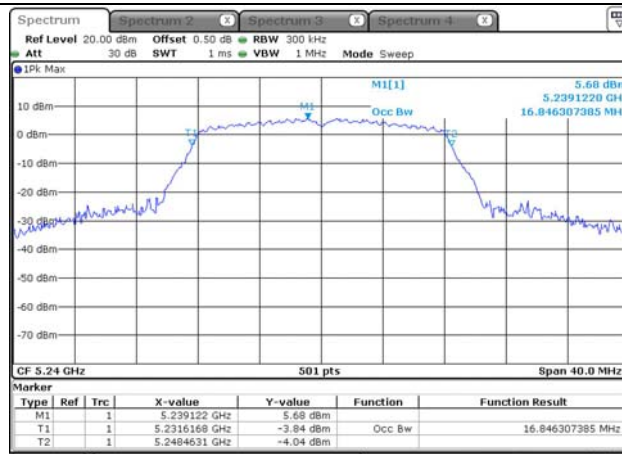
26dB Emission Bandwidth

802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

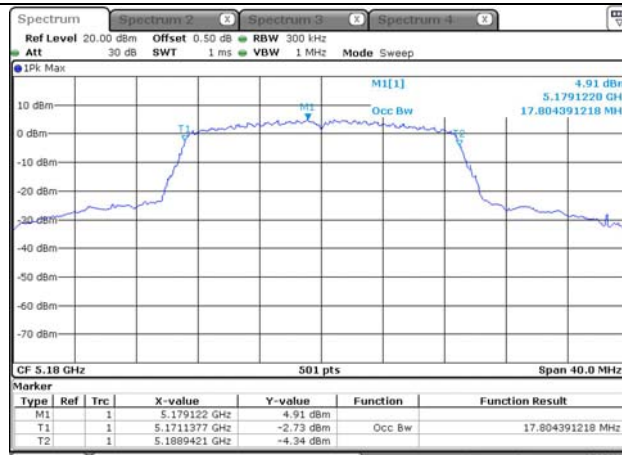
26dB Emission Bandwidth

802.11n ht40
Lowest Channel802.11n ht40
Highest Channel802.11ac vht80
Middle Channel

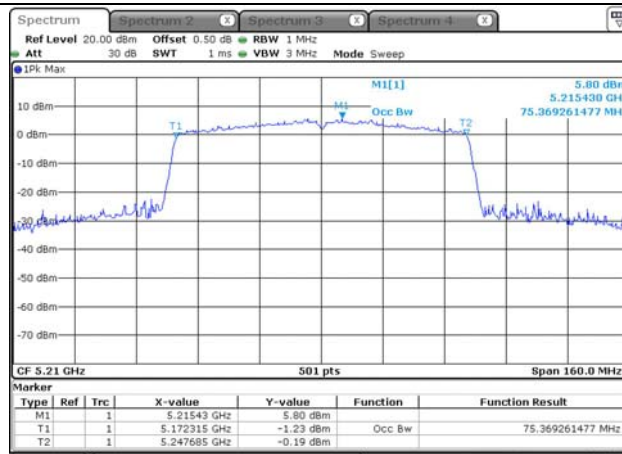
99% Emission Bandwidth

802.11a
Lowest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:17:51802.11a
Middle ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:18:44802.11a
Highest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:20:24

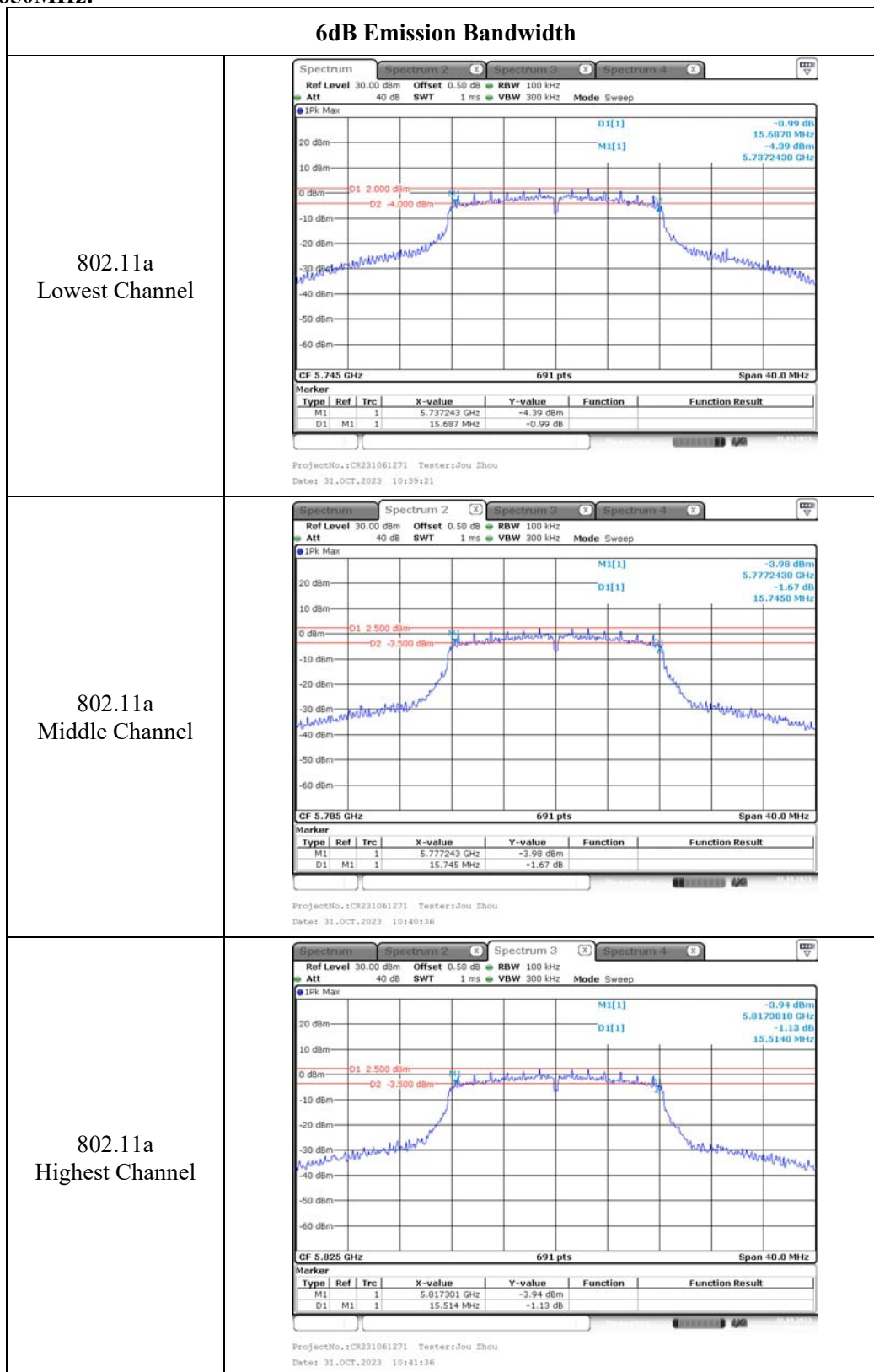
99% Emission Bandwidth

802.11n ht20
Lowest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:21:56802.11n ht20
Middle ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:22:38802.11n ht20
Highest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:23:22

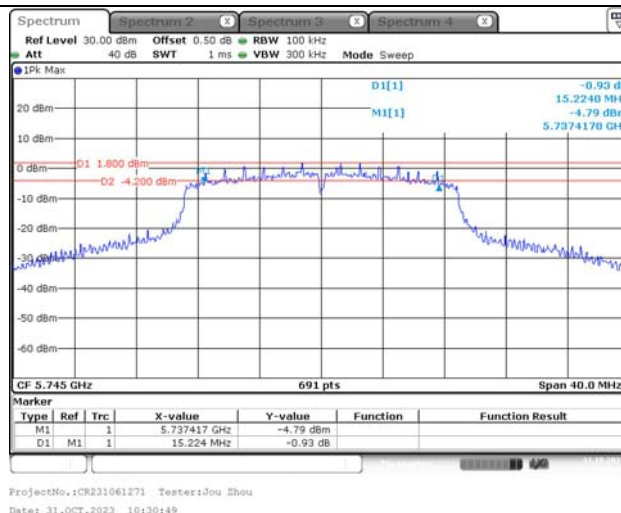
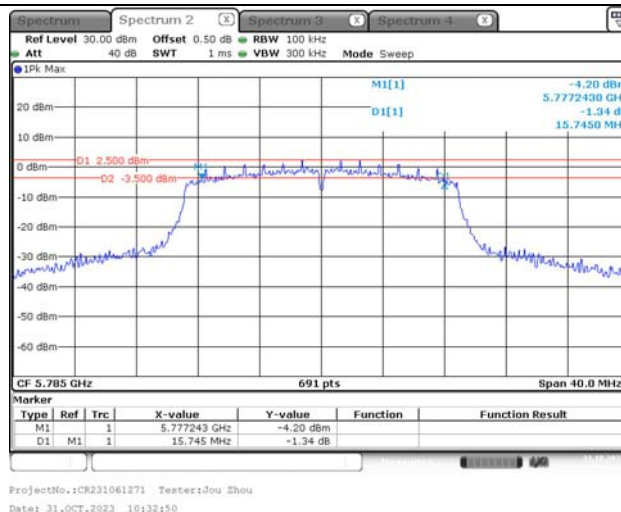
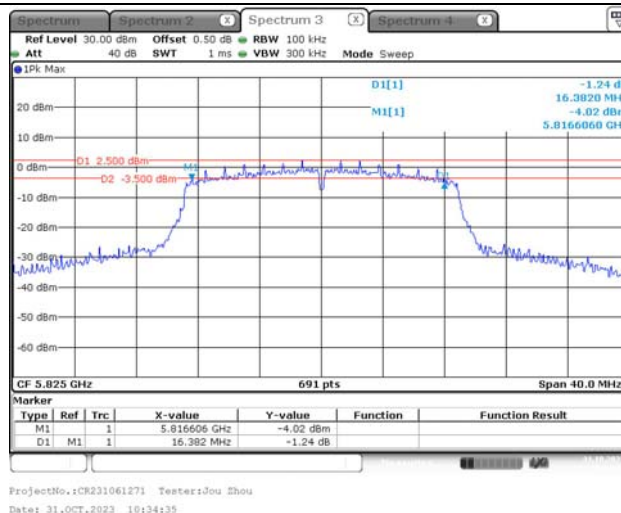
99% Emission Bandwidth

802.11n ht40
Lowest Channel802.11n ht40
Highest Channel802.11ac vht80
Middle Channel

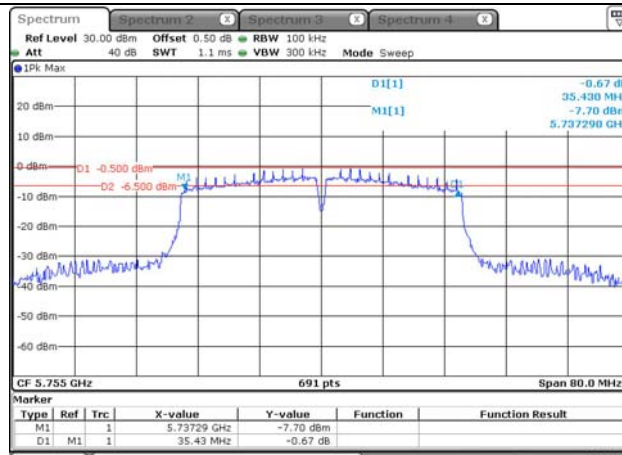
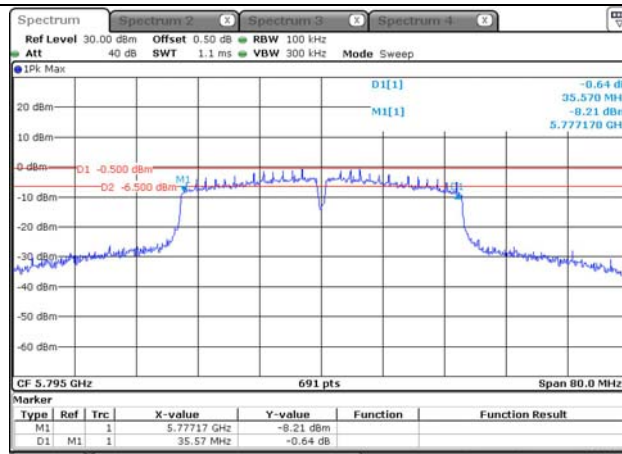
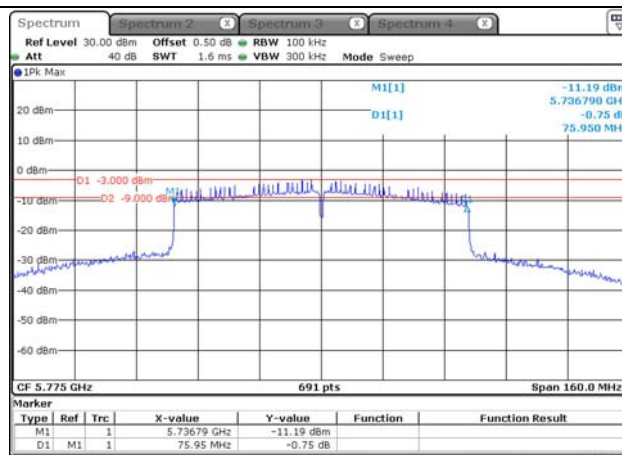
5725-5850MHz:



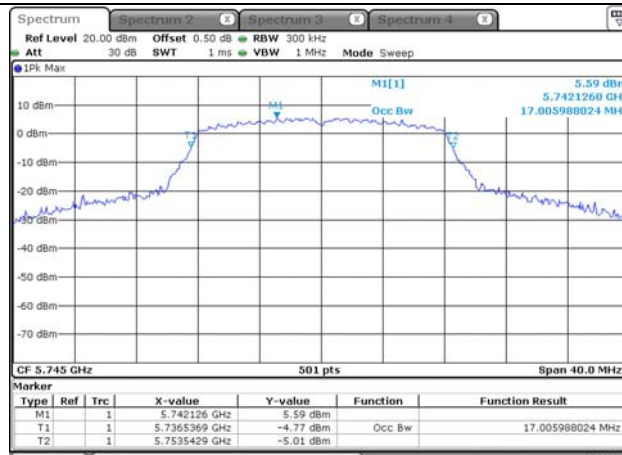
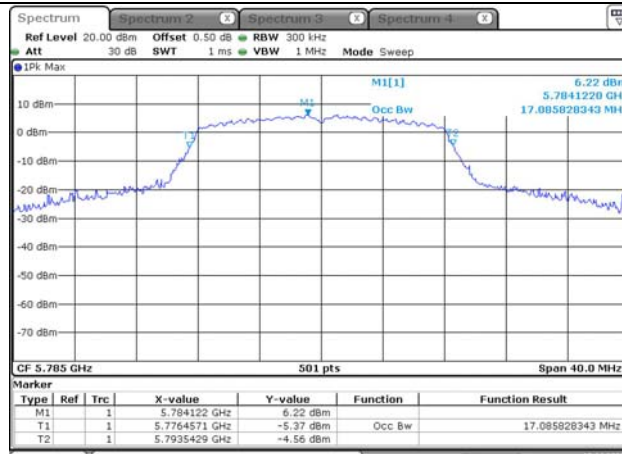
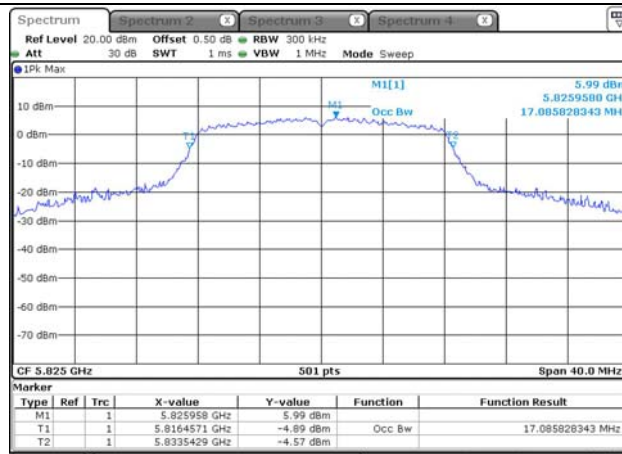
6dB Emission Bandwidth

802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

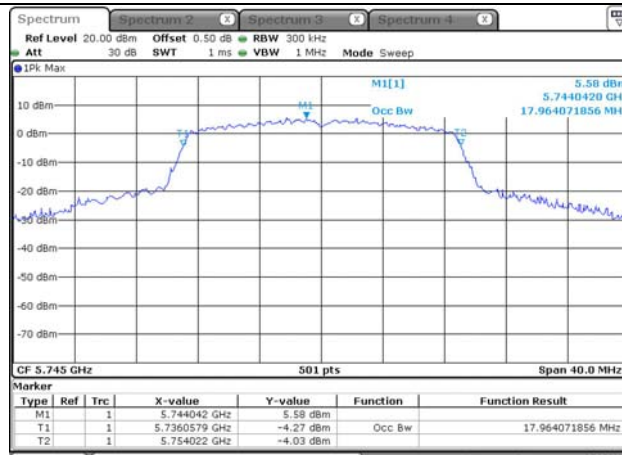
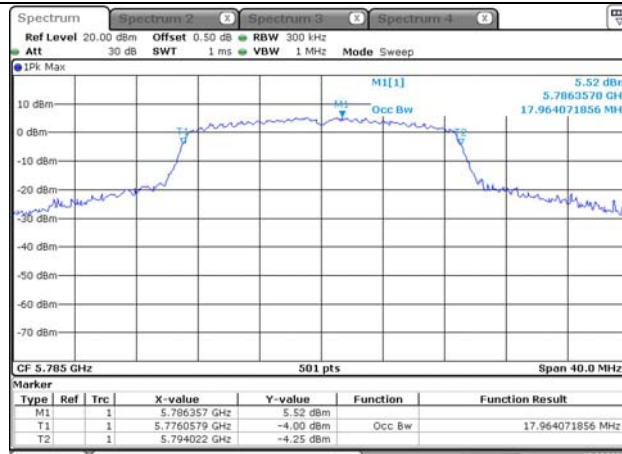
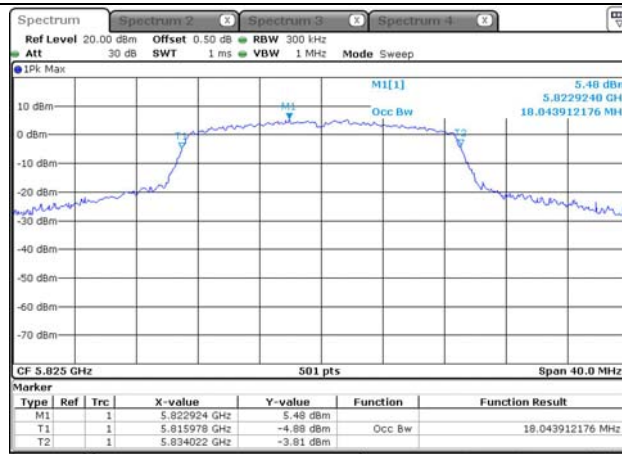
6dB Emission Bandwidth

802.11n ht40
Lowest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 31.OCT.2023 10:22:13802.11n ht40
Highest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 31.OCT.2023 10:20:52802.11ac vht80
Middle ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 31.OCT.2023 10:17:28

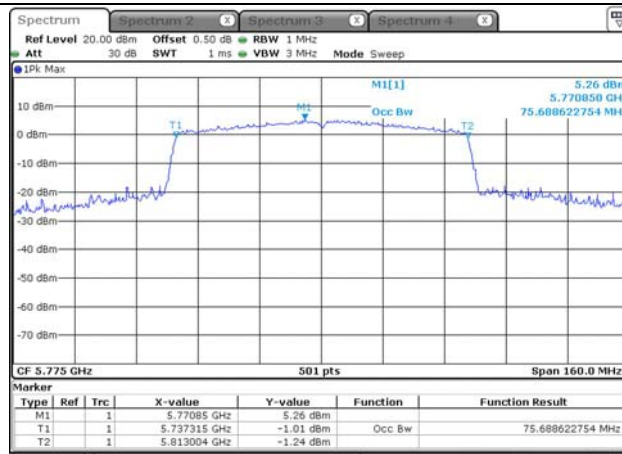
99% Emission Bandwidth

802.11a
Lowest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:33:24802.11a
Middle ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:34:03802.11a
Highest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:34:47

99% Emission Bandwidth

802.11n ht20
Lowest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:31:02802.11n ht20
Middle ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:31:50802.11n ht20
Highest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:32:26

99% Emission Bandwidth

802.11n ht40
Lowest Channel802.11n ht40
Highest Channel802.11ac vht80
Middle Channel

4.4 Maximum Conducted Output Power:

Serial Number:	2CGI-2	Test Date:	2023/11/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Power Meter	ML2495A	1106009	2023/08/04	2024/08/03
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/08/04	2024/08/03
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	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)		Limit
		Chain 0	Chain 1	
802.11a	5180	13.01	12.91	24
	5200	12.89	12.67	24
	5240	12.52	12.36	24
802.11n ht20	5180	12.46	12.42	24
	5200	12.49	12.37	24
	5240	12.60	12.44	24
802.11n ht40	5190	12.55	12.35	24
	5230	12.51	12.39	24
802.11ac vht80	5210	12.59	12.47	24
Note: The device is a client device.				

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power (dBm)		Limit
		Chain 0	Chain 1	
802.11a	5745	12.97	12.77	30
	5785	12.81	12.75	30
	5825	12.81	12.72	30
802.11n ht20	5745	12.75	12.54	30
	5785	12.88	12.68	30
	5825	12.83	12.62	30
802.11n ht40	5755	12.46	12.37	30
	5795	12.52	12.43	30
802.11ac vht80	5775	12.29	12.08	30

4.5 Maximum power spectral density:

Serial Number:	2CGI-2	Test Date:	2023/11/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	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	2.33	/	2.33	11
	5200	2.70	/	2.70	11
	5240	2.38	/	2.38	11
802.11n ht20	5180	2.20	/	2.20	11
	5200	2.32	/	2.32	11
	5240	2.16	/	2.16	11
802.11n ht40	5190	-0.51	0.17	-0.34	11
	5230	-0.18	0.17	-0.01	11
802.11ac vht80	5210	-4.11	0.36	-3.75	11

Note:

Test only was performed at Chain 0.

The device is a client device.

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	-0.31	/	-0.31	30
	5785	0.18	/	0.18	30
	5825	0.07	/	0.07	30
802.11n ht20	5745	-0.63	/	-0.63	30
	5785	-0.10	/	-0.10	30
	5825	-0.34	/	-0.34	30
802.11n ht40	5755	-3.75	0.17	-3.58	30
	5795	-3.64	0.17	-3.47	30
802.11ac vht80	5775	-6.71	0.36	-6.35	30

Note:

Test only was performed at Chain 0.

Maximum power spectral density

The screenshot displays a Spectrum Analyzer interface. At the top, there are four tabs labeled "Spectrum 1", "Spectrum 2", "Spectrum 3", and "Spectrum 4". The first tab, "Spectrum 1", is active.

Parameters:

- Ref Level: 30.00 dBm
- Offset: 0.50 dB
- RBW: 1 MHz
- Mode: Sweep
- Count: 100/100
- SWT: 40 dB
- VBW: 3 MHz
- 1 ms

Plot Details:

- The y-axis represents power level in dBm, ranging from -60 to 20.
- The x-axis represents frequency in GHz, with labels at 5.18 GHz and 5.1791220 GHz.
- A blue trace shows the signal spectrum, which has a flat top around 0 dBm and sloped sides.
- A marker labeled "M1[1]" is placed on the peak of the signal.
- Text on the right indicates a value of 2.33 dBm and a frequency of 5.1791220 GHz.
- At the bottom left, it says "CF 5.18 GHz".
- At the bottom center, it says "501 pts".
- At the bottom right, it says "Span 40.0 MHz".

Marker Data Table:

Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1			1	5.179122 GHz	2.33 dBm		

At the bottom of the window, there is a status bar with the following information:

- ProjectNo.: CR231061271
- Tester: Jow Zhou
- Date: 18-Nov-2023
- Time: 14:44:56

Spectrum 2 **Spectrum 3** **Spectrum 4**

Ref Level 30.00 dBm Offset 0.50 dB RBW 1 MHz
 Att 40 dB SWT 1 ms VBW 3 MHz Mode Sweep

Count 100/100
 15m Avg/Hz

2.70 dBm
 5.200984 GHz

20 dBm
 10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm

CF 5.2 GHz 691 pts Span 40.0 MHz

Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1			1	5.200984 GHz	2.70 dBm		

ProjectNo.:CR231061271 Tester:Jou Zhou
 Date: 18.NOV.2023 14:46:28

Spectrum 1 Spectrum 2 Spectrum 3 Spectrum 4

Ref Level 30.00 dBm Att 40 dB Offset 0.50 dB RBW 1 MHz Mode Sweep

Count 100/100

15m Avgwtr

M1[1] 2.58 dBm 5.2410420 GHz

M1 0 dBm

CF 5.24 GHz 691 pts Span 40.0 MHz

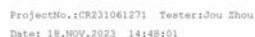
Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1			1	5.241042 GHz	0 dBm		

ProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:47:00

802.11n ht20
Lowest Channel



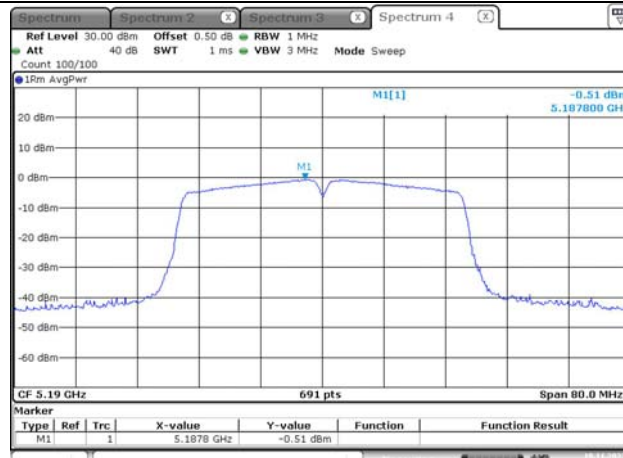
802.11n ht20
Middle Channel



802.11n ht20
Highest Channel



Maximum power spectral density

802.11n ht40
Lowest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:48:59802.11n ht40
Highest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:49:24802.11ac vht80
Middle ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:50:13

5725-5850MHz

Maximum power spectral density

802.11a
Lowest Channel



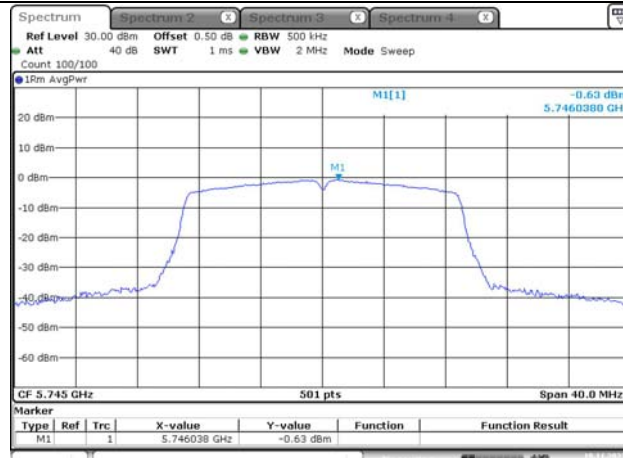
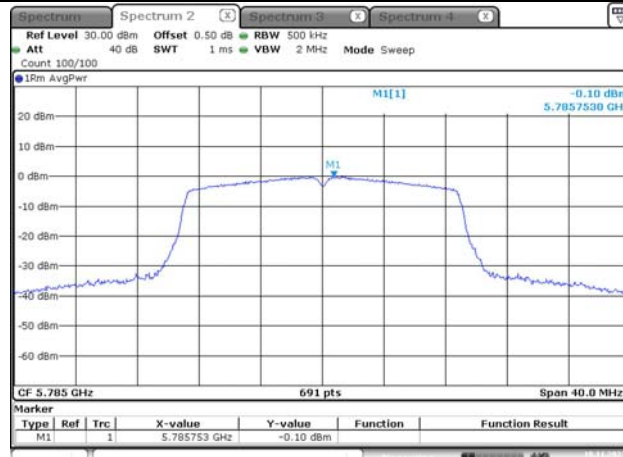
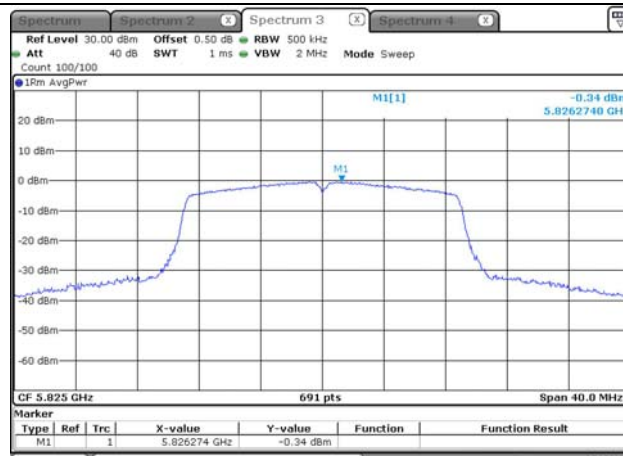
802.11a
Middle Channel



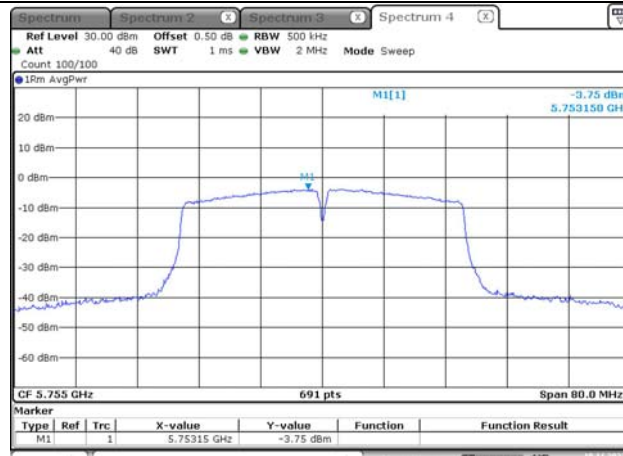
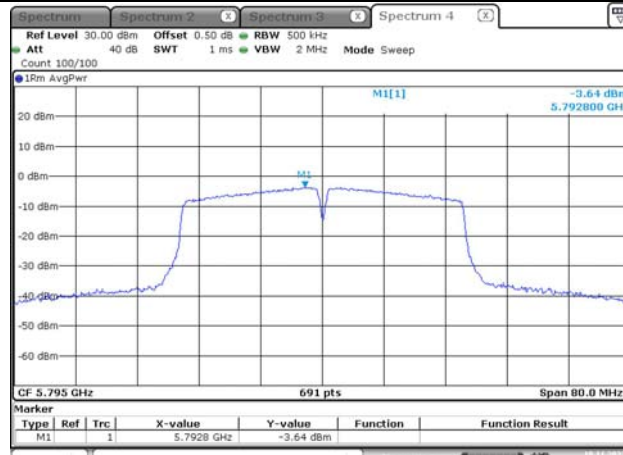
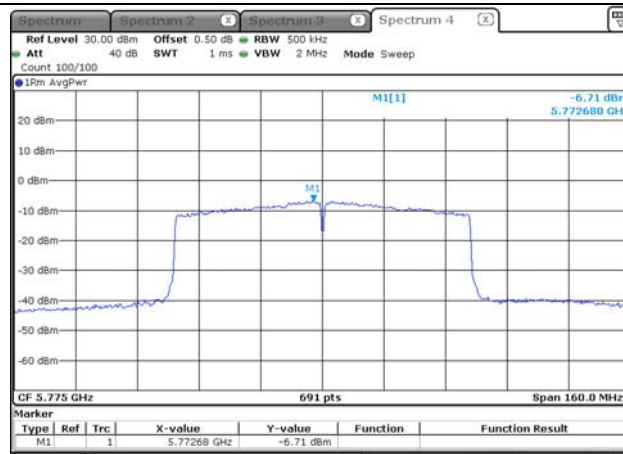
802.11a
Highest Channel



Maximum power spectral density

802.11n ht20
Lowest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:55:35802.11n ht20
Middle ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:55:56802.11n ht20
Highest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:56:21

Maximum power spectral density

802.11n ht40
Lowest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:56:55802.11n ht40
Highest ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:57:26802.11ac vht80
Middle ChannelProjectNo.:CR231061271 Tester:Jou Zhou
Date: 18.NOV.2023 14:58:06

4.6 Duty Cycle:

Serial Number:	2CGI-2	Test Date:	2023/10/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	pass

Environmental Conditions:					
Temperature: (°C)	24.5	Relative Humidity: (%)	45	ATM Pressure: (kPa)	101.2

Test Equipment List and Details:

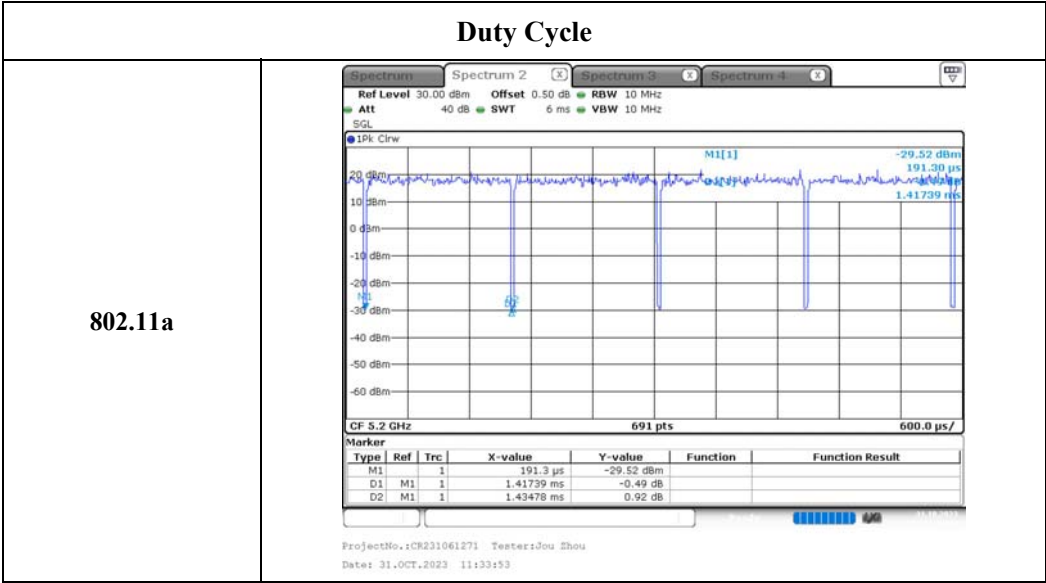
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

* 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 only was performed at Chain 0.

Test Modes	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	Duty Factor (dB)	VBW Setting (kHz)
802.11a	1.417	1.435	98.75	/	/	0.01
802.11n ht20	1.322	1.339	98.73	/	/	0.01
802.11n ht40	0.661	0.687	96.22	1513	0.17	2
802.11ac vht80	0.333	0.362	91.99	3003	0.36	5



802.11n ht20



5. EUT PHOTOGRAPHS

Please refer to the attachment CR231061271-EXP EUT EXTERNAL PHOTOGRAPHS and
CR231061271-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061271-00E-TSP TEST SETUP PHOTOGRAPHS.

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