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

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **TECNO MOBILE LIMITED**

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

FCC ID: **2ADYY-CL8**
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: **CR231273520-00D**

Date Of Issue: **2024/3/9**

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Title: RF Engineer

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Title: Manager

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Test Facility

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

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

Declarations

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

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

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CONTENTS

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231273520-00D	Original Report	2024/3/9

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

EUT Name:	Mobile Phone
Trade Name:	TECNO
EUT Model:	CL8
Operation Frequency:	5180-5240 MHz (802.11a/n ht20/ac vht20/ax hew20) 5190-5230 MHz(802.11n ht40/ac vht40/ax hew40) 5210 MHz(802.11ac vht80/ax hew80) 5745-5825 MHz (802.11a/n ht20/ac vht20/ax hew20) 5755-5795 MHz(802.11n ht40/ac vht40/ax hew40) 5775 MHz(802.11ac vht80/ax hew80)
Maximum Average Output Power (Conducted):	16.46dBm (5150-5250 MHz) 18.77dBm (5725-5850 MHz)
Modulation Type:	802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM 802.11ax: OFDMA- BPSK, QPSK, 16QAM, 64QAM,256QAM,1024QAM
Rated Input Voltage:	DC5V or 5-10V or 11V or 4-20V from adapter or DC3.91V from battery
Serial Number:	CE&RE: 2EXR-4 RF: 2EXR-1
EUT Received Date:	2023/12/8
EUT Received Status:	Good

1.1.2 Operation Frequency Detail:

For 802.11a/n ht20/ac vht20/ax hew20:

5150-5250MHz Band		5725-5850MHz Band	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
/	/	165	5825
Per section 15.31(m), the below frequencies were performed the test as below:			
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825

For 802.11n ht40/ac vht40/ax hew40:

5150-5250MHz Band		5725-5850MHz Band	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
38	5190	151	5755
46	5230	159	5795
Per section 15.31(m), the below frequencies were performed the test as below:			
38	5190	151	5755
46	5230	159	5795

For 802.11ac vht80/ax hew80:

5150-5250MHz Band		5725-5850MHz Band	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
42	5210	155	5775
Per section 15.31(m), the below frequencies were performed the test as below:			
42	5210	155	5775

1.1.3 Antenna Information Detail▲:

Antenna	Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)
Chain 0	Integral	50	5.15~5.85GHz	-1.64
Chain 1	Integral	50	5.15~5.85GHz	-3.6

The Method of §15.203 Compliance:

☒Antenna was permanently attached to the unit.

☐Antenna use a unique type of connector to attach to the EUT.

☐Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.1.4 Accessory Information:

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

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

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

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

5150-5250 MHz Band:

Test Modes	Test Frequency	Ru	Data rate	Power Level Setting	
				Chain 0	Chain 1
802.11a	5180	/	6Mbps	**13**	**15**
	5200	/	6Mbps	**13**	**15**
	5240	/	6Mbps	**13**	**15**
802.11ac vht20	5180	/	MCS0	**15**	**15**
	5200	/	MCS0	**15**	**15**
	5240	/	MCS0	**15**	**15**
802.11ac vht40	5190	/	MCS0	**15**	**15**
	5230	/	MCS0	**15**	**15**
802.11ac vht80	5210	/	MCS0	**15**	**15**
802.11ax hew20	5180	26Tone_RU0	MCS0	**15**	**15**
		52Tone_RU37	MCS0	**18**	**18**
		106Tone_RU53	MCS0	**20**	**20**
		242Tone_RU61	MCS0	**15**	**15**
	5200	26Tone_RU0	MCS0	**15**	**15**
		52Tone_RU37	MCS0	**18**	**18**
		106Tone_RU53	MCS0	**20**	**20**
		242Tone_RU61	MCS0	**15**	**15**
	5240	26Tone_RU0	MCS0	**15**	**15**
		52Tone_RU37	MCS0	**18**	**18**
		106Tone_RU53	MCS0	**20**	**20**
		242Tone_RU61	MCS0	**15**	**15**
802.11ax hew40	5190	26Tone_RU0/8	MCS0	**13**	**13**
		52Tone_RU37	MCS0	**17**	**17**
		106Tone_RU53	MCS0	**19**	**19**
		242Tone_RU61	MCS0	**19**	**19**
		26Tone_RU0	MCS0	**15**	**15**
	5230	52Tone_RU37	MCS0	**13**	**13**
		106Tone_RU53	MCS0	**17**	**17**
		242Tone_RU61	MCS0	**19**	**19**

		484Tone_RU65	MCS0	**19**	**19**
		26Tone_RU0/17	MCS0	**15**	**15**
802.11ax hew80	5210	52Tone_RU37	MCS0	**14**	**14**
		106Tone_RU53	MCS0	**17.5**	**17.5**
		242Tone_RU61	MCS0	**17.5**	**17.5**
		484Tone_RU65	MCS0	**17.5**	**17.5**
		26Tone_RU0/36	MCS0	**17.5**	**17.5**
		52Tone_RU37	MCS0	**15**	**15**
5725-5850 MHz Band:					
Test Modes	**Test Frequency**	242Tone_RU61 484Tone_RU65	**Data rate**	**Power Level Setting**	
				Chain 0	**Chain 1**
802.11a	5745	996Tone_RU67	6Mbps	**18**	**16**
	5785	5785	6Mbps	**18**	**16**
	5825	5825	6Mbps	**18**	**16**
802.11ac vht20	5745	5745	MCS0	**16**	**16**
	5785	5785	MCS0	**16**	**16**
	5825	5825	MCS0	**16**	**16**
802.11ac vht40	5755	5755	MCS0	**16**	**16**
	5795	5795	MCS0	**16**	**16**
802.11ac vht80	5775	5775	MCS0	**16**	**16**
802.11ax hew20	5745	26Tone_RU0	MCS0	**18**	**18**
		52Tone_RU37	MCS0	**18**	**18**
		106Tone_RU53	MCS0	**18**	**18**
		242Tone_RU61	MCS0	**16**	**16**
	5785	26Tone_RU0	MCS0	**18**	**18**
		52Tone_RU37	MCS0	**18**	**18**
		106Tone_RU53	MCS0	**18**	**18**
		242Tone_RU61	MCS0	**16**	**16**
	5825	26Tone_RU0/8	MCS0	**18**	**18**
		52Tone_RU37	MCS0	**18**	**18**
		106Tone_RU53	MCS0	**18**	**18**
		242Tone_RU61	MCS0	**16**	**16**
802.11ax hew40	5755	26Tone_RU0	MCS0	**19**	**19**
		52Tone_RU37	MCS0	**19**	**19**
		106Tone_RU53	MCS0	**19**	**19**
		242Tone_RU61	MCS0	**19**	**19**
		484Tone_RU65	MCS0	**16**	**16**
	5795	26Tone_RU0/17	MCS0	**19**	**19**
		52Tone_RU37	MCS0	**19**	**19**
		106Tone_RU53	MCS0	**19**	**19**

		242Tone_RU61	MCS0	**19**	**19**
		484Tone_RU65	MCS0	**16**	**16**
802.11ax hew80	5775	26Tone_RU0/36	MCS0	**19**	**19**
		52Tone_RU37	MCS0	**19**	**19**
		106Tone_RU53	MCS0	**19**	**19**
		242Tone_RU61	MCS0	**19**	**19**
		484Tone_RU65	MCS0	**19**	**19**
		996Tone_RU67	MCS0	**16**	**16**

Note1: The system support 802.11a/n ht20/n ht40/ac vht20/vht40/vht80/ax hew20/ax hew40/ax hew80, the 802.11n ht20 and ht40 were reduced since the identical parameters with 802.11ac vht20/vht40.
Note2: 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.
Note3: According to the manufacturer, for 802.11 a mode, the device only support SISO mode.
Note4: According to the manufacturer, for 802.11 n/ac/ax mode, the device supports SISO and MIMO in all modes, per pretest, the MIMO mode was the worst mode for all the modes.

1.2.2 Support Equipment List and Details

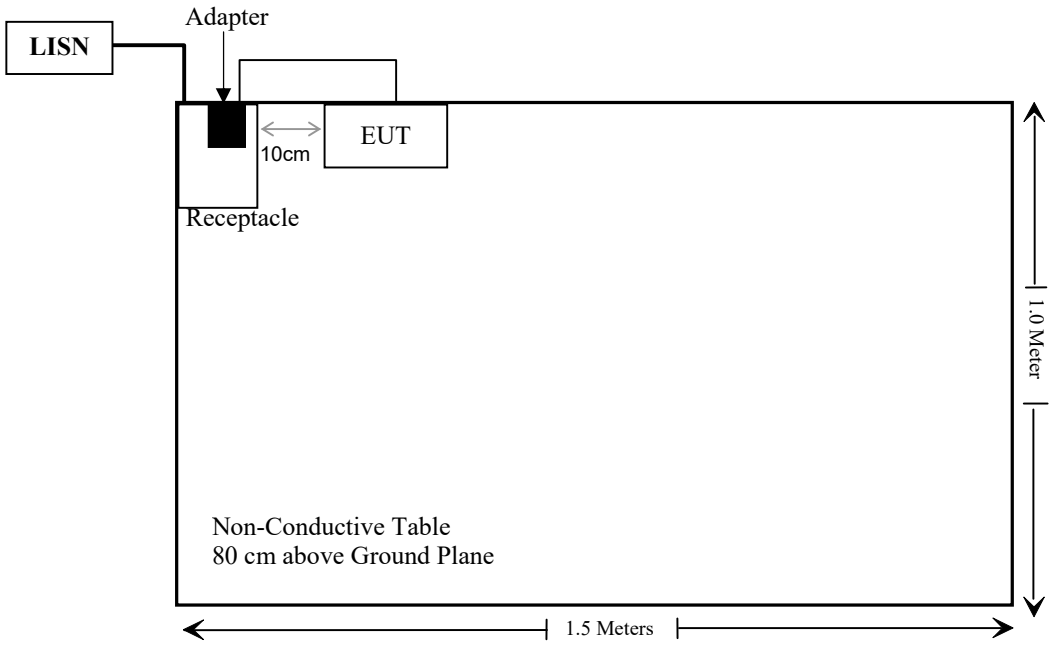
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

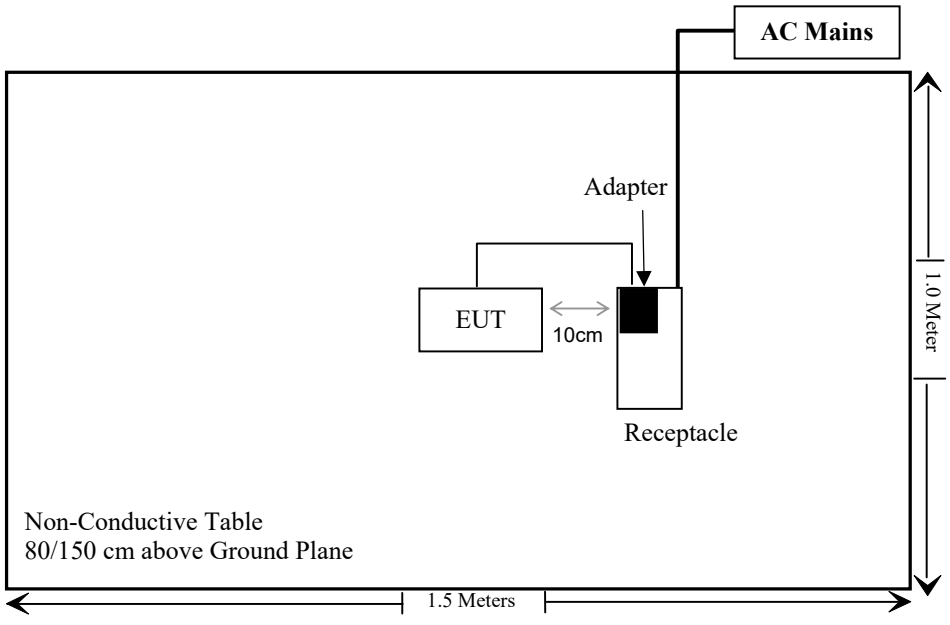
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.0	EUT	adapter

1.2.4 Block Diagram of Test Setup

AC Line Conducted Emissions:



Spurious emissions:



1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB,30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a)	AC line conducted emissions	Compliant
FCC§15.205& §15.209 &§15.407(b)	Radiated Spurious Emissions	Compliant
FCC§15.407(a) (e)	Emission Bandwidth	Compliant
FCC§15.407(a)	Maximum Conducted Output Power	Compliant
FCC§15.407 (a)	Power Spectral Density	Compliant
§15.203	Antenna Requirement	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/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.

	Conducted limit (dBμV)	
Frequency of emission (MHz)	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:

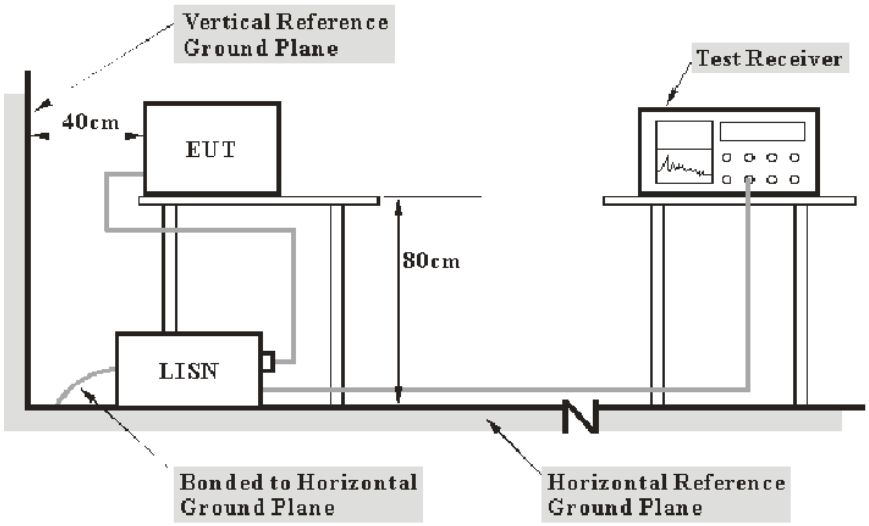
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

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

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

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

3.1.2 EUT Setup



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

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

The spacing between the peripherals was 10 cm.

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

3.1.3 EMI Test Receiver Setup

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

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

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

3.1.4 Test Procedure

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

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

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

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

Margin = Limit – Result

3.2 Radiation Spurious Emissions

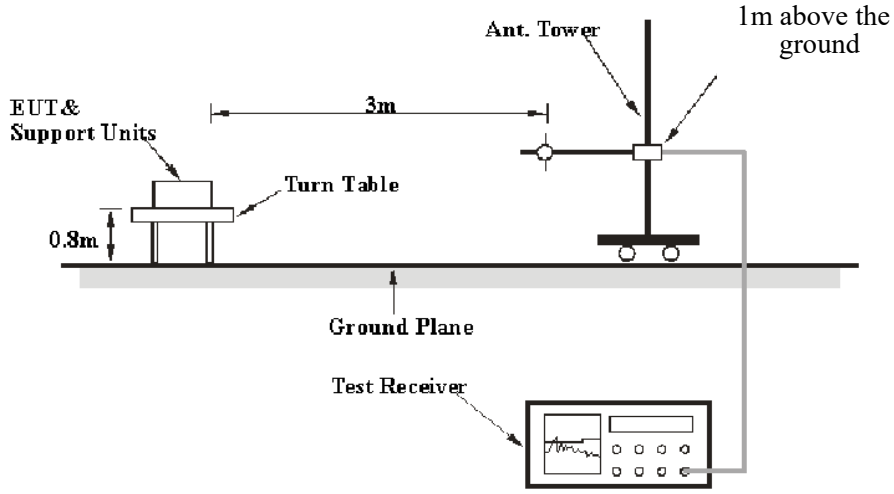
3.2.1 Applicable Standard

FCC §15.407 (b);

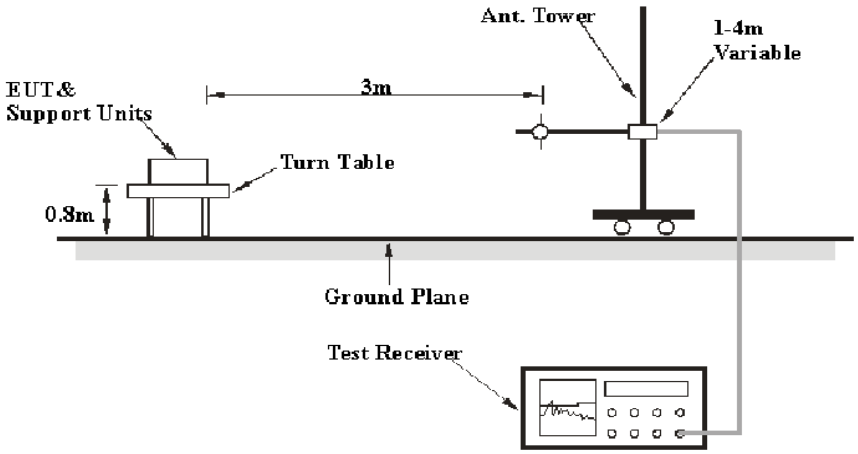
Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(4) For transmitters operating solely in the 5.725-5.850 GHz band:
(i) All emissions shall be limited to a level of – 27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
(8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.
(11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.2.2 EUT Setup

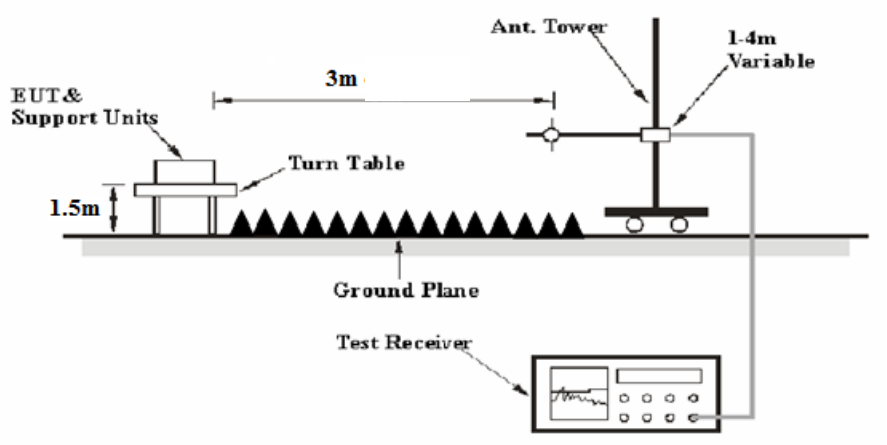
9 kHz-30MHz:



30MHz-1GHz:



1-40 GHz:



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

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

The spacing between the peripherals was 10 cm.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

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

9 kHz -1000 MHz:

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

1GHz- 25GHz:

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
Ave.	>98%	1MHz	10 Hz
	<98%	1MHz	≥1/T

Note: T is minimum transmission duration

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

3.2.4 Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: E [dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.

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

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain
Result = Reading + Factor

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

Margin = Limit – Result

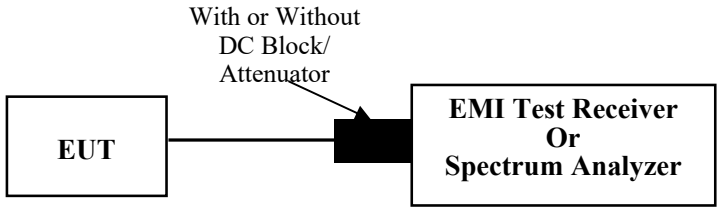
3.3 Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.407 (a),(h)
(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

FCC §15.407 (e)
Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.3.2 EUT Setup



3.3.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

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

6 dB emission bandwidth:

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

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied Bandwidth:

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

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

3.4 Maximum Conducted Output Power

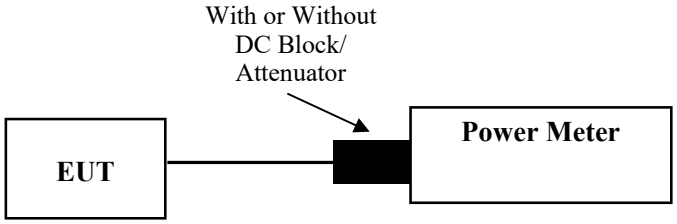
3.4.1 Applicable Standard

FCC §15.407(a) (1)(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 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.2

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

3.5 Maximum Power Spectral Density

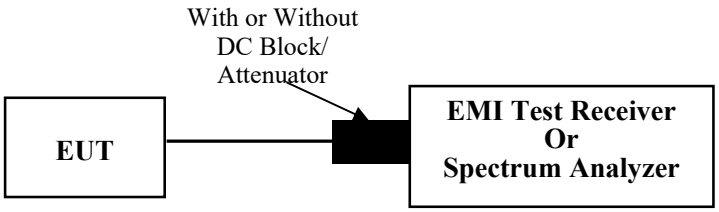
3.5.1 Applicable Standard

FCC §15.407(a) (1)(iv)
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 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 ≥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 ±2%

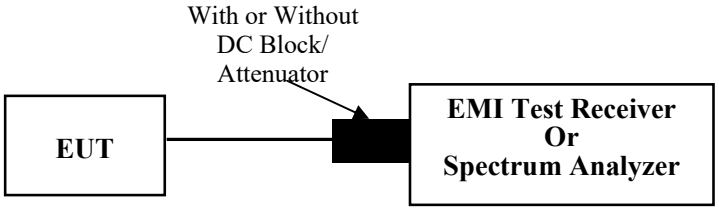
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle <98%, duty cycle variations exceed ±2%

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

3.7 Duty Cycle

3.7.1 EUT Setup



3.7.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
1) Set the center frequency of the instrument to the center frequency of the transmission.
2) Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ 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 ≤ 16.7 μs.)

3.8 Antenna Requirement

3.8.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.8.2 Judgment

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

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	2EXR-4	Test Date:	2023/12/30
Test Site:	CE	Test Mode:	Transmitting(maximum output power mode, 802.11ax hew20 MIMO, 5745MHz 26Tone RU0)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.1	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.6

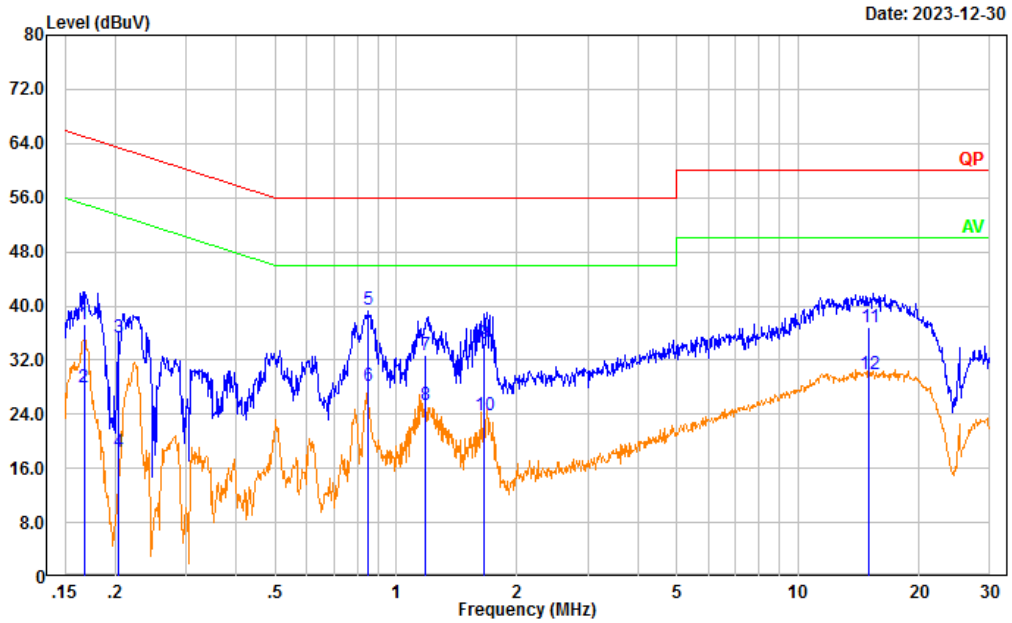
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2023/3/31	2024/3/30
R&S	EMI Test Receiver	ESR3	102726	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2023/8/6	2024/8/5
Audix	Test Software	E3	190306 (V9)	N/A	N/A

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

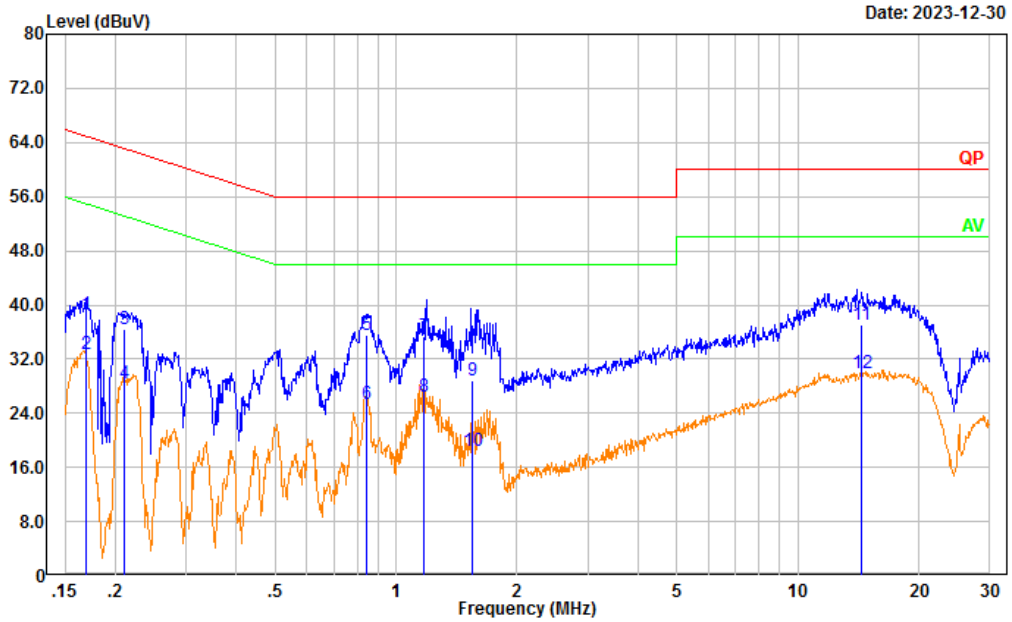
Test Data:

Project No.: CR231273520-RF
Tester: David Huang
Port: Line
Note: Transmitting(5G WIFI)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.167	27.60	9.61	37.21	65.10	27.89	QP
2	0.167	18.35	9.61	27.96	55.10	27.14	Average
3	0.203	25.63	9.61	35.24	63.47	28.23	QP
4	0.203	8.80	9.61	18.41	53.47	35.06	Average
5	0.850	29.86	9.62	39.48	56.00	16.52	QP
6	0.850	18.64	9.62	28.26	46.00	17.74	Average
7	1.179	23.05	9.62	32.67	56.00	23.33	QP
8	1.179	15.68	9.62	25.30	46.00	20.70	Average
9	1.661	24.81	9.63	34.44	56.00	21.56	QP
10	1.661	14.26	9.63	23.89	46.00	22.11	Average
11	15.019	27.10	9.69	36.79	60.00	23.21	QP
12	15.019	20.23	9.69	29.92	50.00	20.08	Average

Project No.: CR231273520-RF
Tester: David Huang
Port: neutral
Note: Transmitting(5G WIFI)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.169	29.03	9.61	38.64	65.01	26.37	QP
2	0.169	23.08	9.61	32.69	55.01	22.32	Average
3	0.211	26.83	9.61	36.44	63.17	26.73	QP
4	0.211	18.73	9.61	28.34	53.17	24.83	Average
5	0.842	25.85	9.62	35.47	56.00	20.53	QP
6	0.842	15.65	9.62	25.27	46.00	20.73	Average
7	1.171	25.80	9.62	35.42	56.00	20.58	QP
8	1.171	16.89	9.62	26.51	46.00	19.49	Average
9	1.548	19.18	9.63	28.81	56.00	27.19	QP
10	1.548	8.79	9.63	18.42	46.00	27.58	Average
11	14.397	27.47	9.68	37.15	60.00	22.85	QP
12	14.397	20.14	9.68	29.82	50.00	20.18	Average

4.2 Radiation Spurious Emissions

Serial Number:	2EXR-4	Test Date:	2023/12/19~ 2024/1/1
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Jeff Luo, Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.3~ 26.4	Relative Humidity: (%)	41~ 66	ATM Pressure: (kPa)	101.3~101.7

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
Audix	Test Software	E3	201021 (V9)	N/A	N/A
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
Audix	Test Software	E3	201021 (V9)	N/A	N/A
PASTERNACK	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
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4

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

Test Data:

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

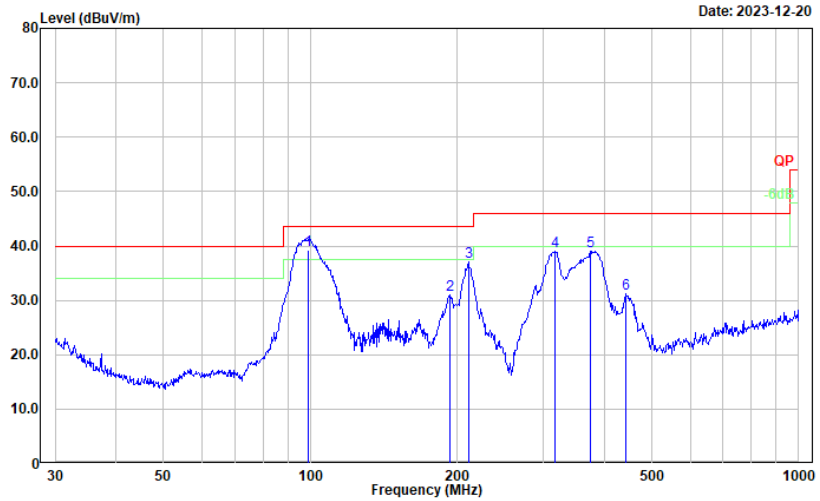
For 9kHz-30MHz, The amplitude of spurious emissions attenuated more than 20 dB below the limit was not be recorded.

1) 30MHz-1GHz

5150-5250MHz (Maximum Conducted Output Power Mode, 802.11ax hew40 MIMO, 106Tone_RU53)

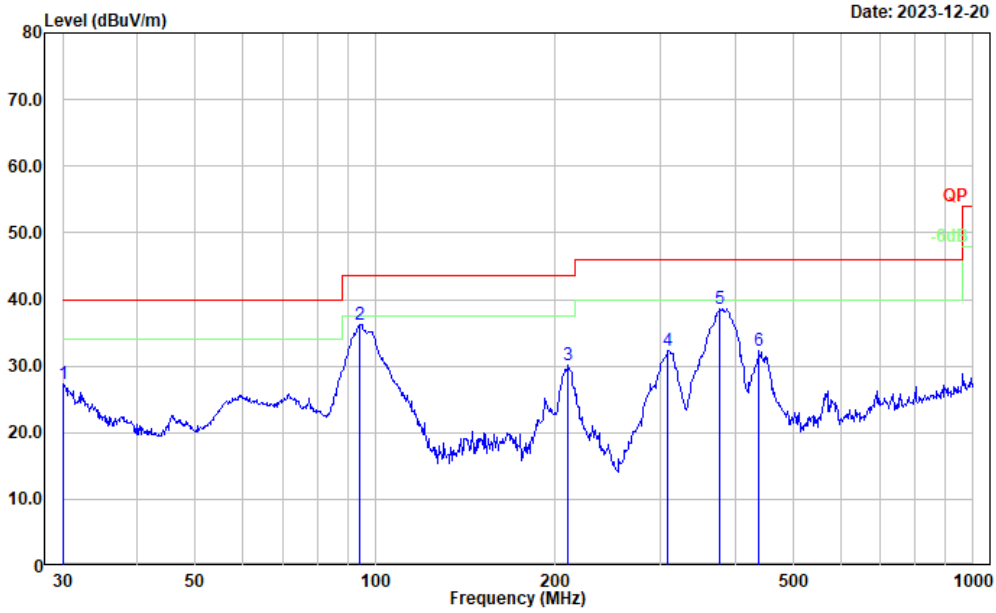
Low Channel

Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(5G WIFI 5150-5250 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	99.180	54.09	-14.81	39.28	43.50	4.22	QP
2	193.095	44.38	-13.41	30.97	43.50	12.53	Peak
3	210.786	49.98	-12.96	37.02	43.50	6.48	Peak
4	317.701	49.75	-10.83	38.92	46.00	7.08	Peak
5	374.623	48.69	-9.74	38.95	46.00	7.05	Peak
6	441.743	38.84	-7.56	31.28	46.00	14.72	Peak

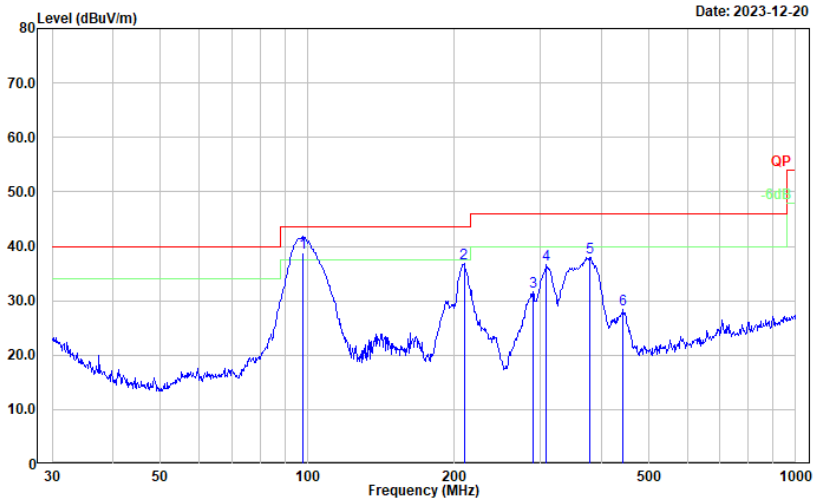
Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(5G WIFI 5150-5250 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.000	31.48	-4.12	27.36	40.00	12.64	Peak
2	94.098	52.42	-16.19	36.23	43.50	7.27	Peak
3	210.048	43.11	-12.93	30.18	43.50	13.32	Peak
4	308.913	43.15	-10.92	32.23	46.00	13.77	Peak
5	377.259	48.35	-9.66	38.69	46.00	7.31	Peak
6	438.655	39.90	-7.66	32.24	46.00	13.76	Peak

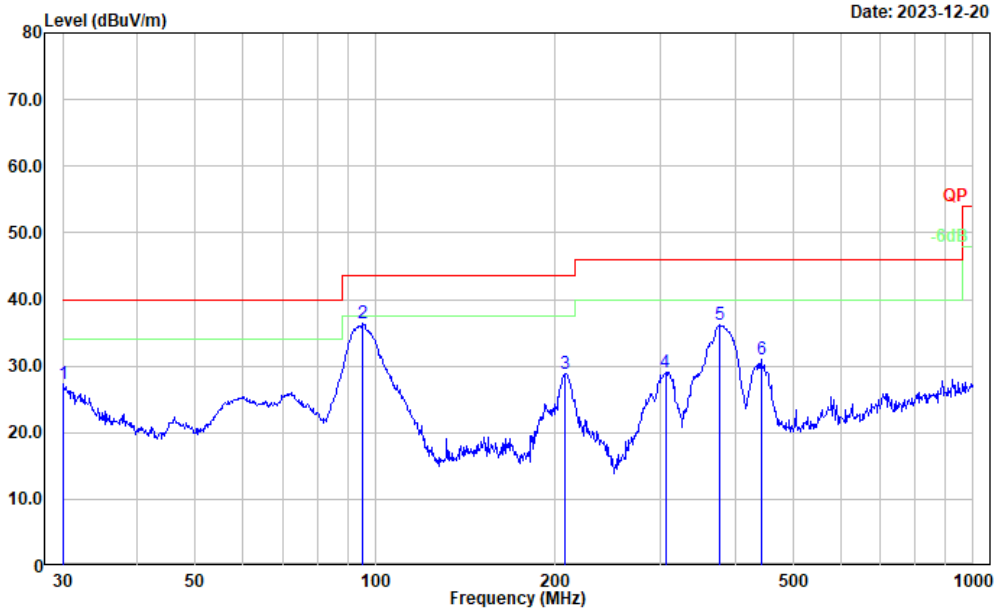
High Channel

Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(5G WIFI 5150-5250 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	98.142	53.80	-15.06	38.74	43.50	4.76	QP
2	209.313	49.78	-12.92	36.86	43.50	6.64	Peak
3	290.017	43.18	-11.51	31.67	46.00	14.33	Peak
4	308.913	47.63	-10.92	36.71	46.00	9.29	Peak
5	378.584	47.67	-9.63	38.04	46.00	7.96	Peak
6	443.294	35.88	-7.49	28.39	46.00	17.61	Peak

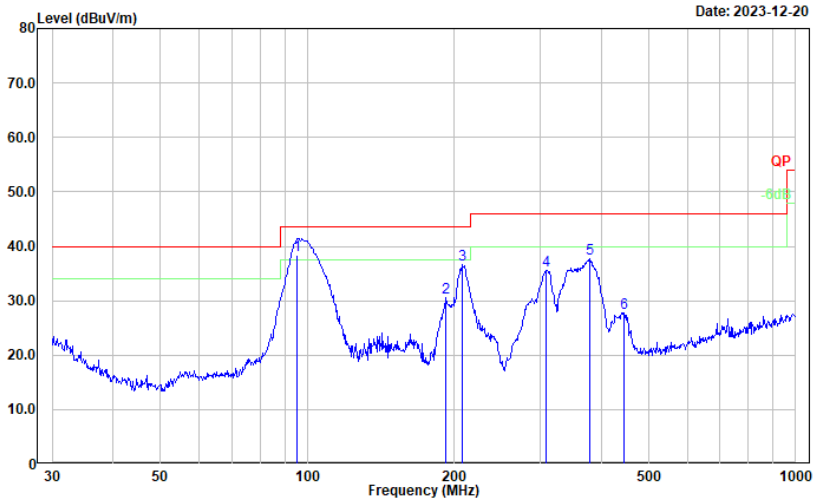
Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(5G WIFI 5150-5250 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.105	31.57	-4.20	27.37	40.00	12.63	Peak
2	95.427	52.27	-15.81	36.46	43.50	7.04	Peak
3	207.850	41.77	-12.90	28.87	43.50	14.63	Peak
4	305.680	40.01	-10.95	29.06	46.00	16.94	Peak
5	377.259	45.80	-9.66	36.14	46.00	9.86	Peak
6	441.743	38.55	-7.56	30.99	46.00	15.01	Peak

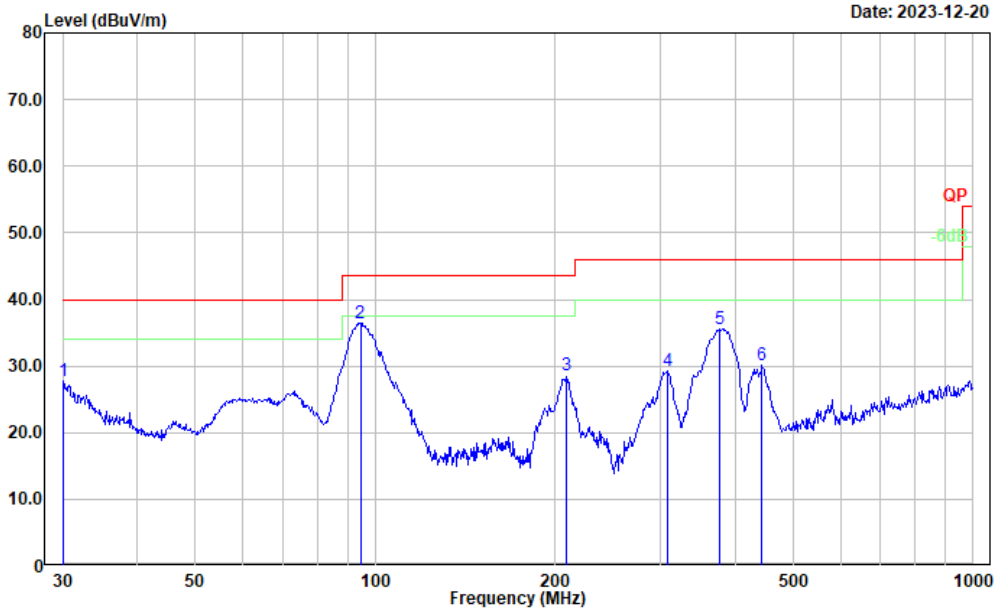
5725-5850MHz (Maximum Conducted Output Power Mode, 802.11ax hew20 MIMO, 26Tone_RU0)
Low Channel

Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(5G WIFI 5725-5850 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	95.427	54.19	-15.81	38.38	43.50	5.12	QP
2	192.419	44.16	-13.49	30.67	43.50	12.83	Peak
3	207.123	49.51	-12.87	36.64	43.50	6.86	Peak
4	308.913	46.50	-10.92	35.58	46.00	10.42	Peak
5	378.584	47.32	-9.63	37.69	46.00	8.31	Peak
6	444.851	35.17	-7.45	27.72	46.00	18.28	Peak

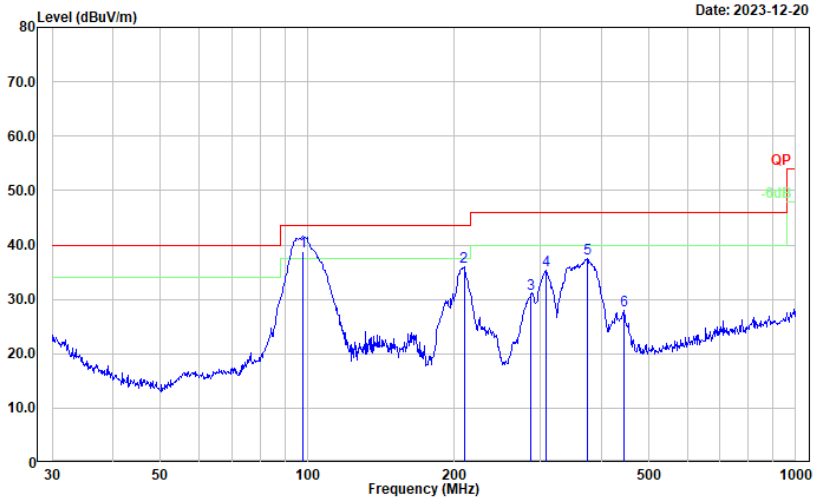
Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(5G WIFI 5725-5850 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.000	31.94	-4.12	27.82	40.00	12.18	Peak
2	94.428	52.56	-16.10	36.46	43.50	7.04	Peak
3	208.580	41.42	-12.91	28.51	43.50	14.99	Peak
4	307.831	40.12	-10.93	29.19	46.00	16.81	Peak
5	377.259	45.28	-9.66	35.62	46.00	10.38	Peak
6	443.294	37.56	-7.49	30.07	46.00	15.93	Peak

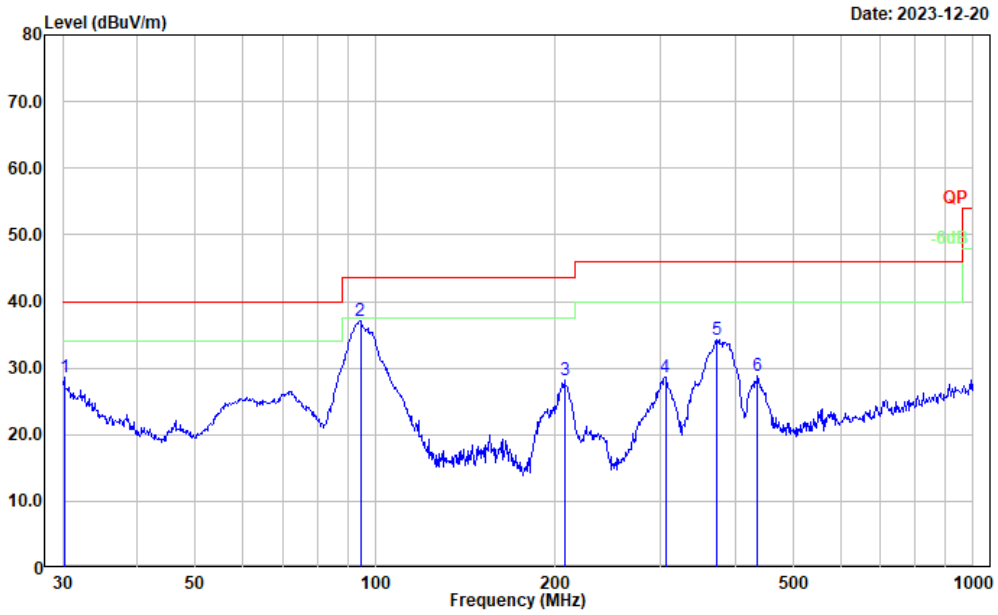
Middle Channel

Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(5G WIFI 5725-5850 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	98.142	53.76	-15.06	38.70	43.50	4.80	QP
2	209.313	48.93	-12.92	36.01	43.50	7.49	Peak
3	286.982	42.63	-11.63	31.00	46.00	15.00	Peak
4	308.913	46.21	-10.92	35.29	46.00	10.71	Peak
5	374.623	47.24	-9.74	37.50	46.00	8.50	Peak
6	444.851	35.31	-7.45	27.86	46.00	18.14	Peak

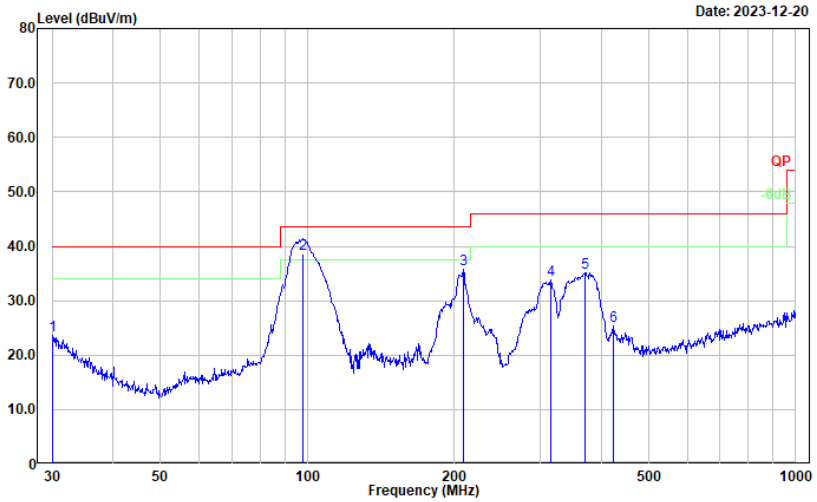
Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(5G WIFI 5725-5850 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.211	32.80	-4.28	28.52	40.00	11.48	Peak
2	94.428	53.26	-16.10	37.16	43.50	6.34	Peak
3	207.123	40.97	-12.87	28.10	43.50	15.40	Peak
4	305.680	39.52	-10.95	28.57	46.00	17.43	Peak
5	373.311	43.96	-9.77	34.19	46.00	11.81	Peak
6	435.590	36.64	-7.76	28.88	46.00	17.12	Peak

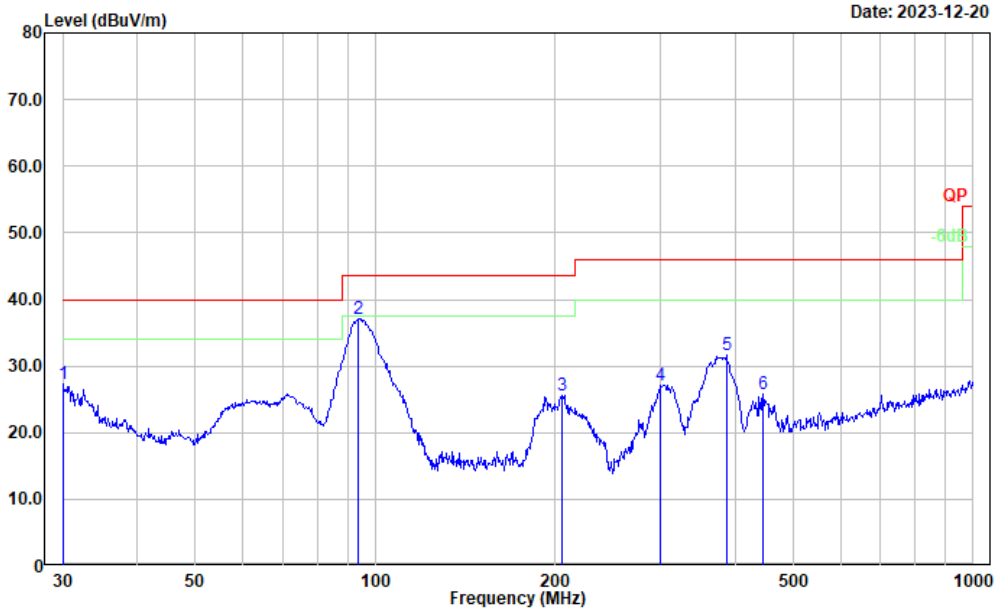
High Channel

Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: horizontal
Note: Transmitting(5G WIFI 5725-5850 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.000	27.83	-4.12	23.71	40.00	16.29	Peak
2	98.142	53.56	-15.06	38.50	43.50	5.00	QP
3	208.580	48.71	-12.91	35.80	43.50	7.70	Peak
4	314.377	44.70	-10.89	33.81	46.00	12.19	Peak
5	370.702	44.88	-9.82	35.06	46.00	10.94	Peak
6	423.540	33.68	-8.21	25.47	46.00	20.53	Peak

Project No.: CR231273520-RF
Tester: Jeff Luo
Polarization: vertical
Note: Transmitting(5G WIFI 5725-5850 MHz)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	30.000	31.49	-4.12	27.37	40.00	12.63	Peak
2	93.440	53.53	-16.35	37.18	43.50	6.32	Peak
3	204.955	38.42	-12.84	25.58	43.50	17.92	Peak
4	299.316	38.27	-11.08	27.19	46.00	18.81	Peak
5	386.634	41.12	-9.43	31.69	46.00	14.31	Peak
6	444.851	33.20	-7.45	25.75	46.00	20.25	Peak

2) 1GHz-40GHz:
5150-5250MHz:
802.11a Mode Chain 0:

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	49.22	PK	H	11.67	60.89	74.00	13.11
5150.000	36.47	AV	H	11.67	48.14	54.00	5.86
5150.000	48.79	PK	V	11.67	60.46	74.00	13.54
5150.000	36.15	AV	V	11.67	47.82	54.00	6.18
10360.000	37.63	PK	H	20.47	58.1	68.20	10.10
10360.000	37.02	PK	V	20.47	57.49	68.20	10.71
Middle Channel: 5200 MHz							
10400.000	38.74	PK	H	20.54	59.28	68.20	8.92
10400.000	38.13	PK	V	20.54	58.67	68.20	9.53
High Channel: 5240 MHz							
5350.000	47.28	PK	H	11.94	59.22	74.00	14.78
5350.000	33.40	AV	H	11.94	45.34	54.00	8.66
5350.000	47.04	PK	V	11.94	58.98	74.00	15.02
5350.000	33.22	AV	V	11.94	45.16	54.00	8.84
10480.000	40.09	PK	H	20.42	60.51	68.20	7.69
10480.000	39.36	PK	V	20.42	59.78	68.20	8.42

802.11a Mode Chain 1:

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	47.11	PK	H	11.67	58.78	74.00	15.22
5150.000	34.52	AV	H	11.67	46.19	54.00	7.81
5150.000	46.88	PK	V	11.67	58.55	74.00	15.45
5150.000	34.37	AV	V	11.67	46.04	54.00	7.96
10360.000	42.37	PK	H	20.47	62.84	68.20	5.36
10360.000	43.51	PK	V	20.47	63.98	68.20	4.22
Middle Channel: 5200 MHz							
10400.000	47.97	PK	H	14.52	62.49	68.20	5.71
10400.000	43.17	PK	V	20.54	63.71	68.20	4.49
High Channel: 5240 MHz							
5350.000	46.72	PK	H	11.94	58.66	74.00	15.34
5350.000	33.31	AV	H	11.94	45.25	54.00	8.75
5350.000	46.47	PK	V	11.94	58.41	74.00	15.59
5350.000	33.15	AV	V	11.94	45.09	54.00	8.91
10480.000	41.62	PK	H	20.42	62.04	68.20	6.16
10480.000	42.86	PK	V	20.42	63.28	68.20	4.92

802.11ac20 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	48.59	PK	H	11.67	60.26	74.00	13.74
5150.000	36.91	AV	H	11.67	48.58	54.00	5.42
5150.000	48.18	PK	V	11.67	59.85	74.00	14.15
5150.000	36.64	AV	V	11.67	48.31	54.00	5.69
10360.000	43.60	PK	H	20.47	64.07	68.20	4.13
10360.000	44.72	PK	V	20.47	65.19	68.20	3.01
Middle Channel: 5200 MHz							
10400.000	43.24	PK	H	20.54	63.78	68.20	4.42
10400.000	44.31	PK	V	20.54	64.85	68.20	3.35
High Channel: 5240 MHz							
5350.000	47.19	PK	H	11.94	59.13	74.00	14.87
5350.000	33.52	AV	H	11.94	45.46	54.00	8.54
5350.000	46.88	PK	V	11.94	58.82	74.00	15.18
5350.000	33.25	AV	V	11.94	45.19	54.00	8.81
10480.000	42.92	PK	H	20.42	63.34	68.20	4.86
10480.000	44.07	PK	V	20.42	64.49	68.20	3.71

802.11ac40 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	54.72	PK	H	11.67	66.39	74.00	7.61
5150.000	38.84	AV	H	11.67	50.51	54.00	3.49
5150.000	54.06	PK	V	11.67	65.73	74.00	8.27
5150.000	38.47	AV	V	11.67	50.14	54.00	3.86
10380.000	37.33	PK	H	20.51	57.84	68.20	10.36
10380.000	37.80	PK	V	20.51	58.31	68.20	9.89
High Channel: 5230 MHz							
5350.000	47.08	PK	H	11.94	59.02	74.00	14.98
5350.000	33.61	AV	H	11.94	45.55	54.00	8.45
5350.000	46.82	PK	V	11.94	58.76	74.00	15.24
5350.000	33.39	AV	V	11.94	45.33	54.00	8.67
10460.000	38.58	PK	H	20.45	59.03	68.20	9.17
10460.000	39.02	PK	V	20.45	59.47	68.20	8.73

802.11ac80 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	51.47	PK	H	11.67	63.14	74.00	10.86
5150.000	38.94	AV	H	11.67	50.61	54.00	3.39
5150.000	51.13	PK	V	11.67	62.8	74.00	11.20
5150.000	38.61	AV	V	11.67	50.28	54.00	3.72
5350.000	47.06	PK	H	11.94	59	74.00	15.00
5350.000	35.18	AV	H	11.94	47.12	54.00	6.88
5350.000	46.75	PK	V	11.94	58.69	74.00	15.31
5350.000	34.90	AV	V	11.94	46.84	54.00	7.16
10420.000	35.27	PK	H	20.51	55.78	68.20	12.42
10420.000	34.84	PK	V	20.51	55.35	68.20	12.85

802.11ax20 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	26Tone_RU0	
5150.000	45.95	PK	H	11.67	57.62	74.00	16.38
5150.000	33.91	AV	H	11.67	45.58	54.00	8.42
5150.000	44.36	PK	V	11.67	56.03	74.00	17.97
5150.000	32.85	AV	V	11.67	44.52	54.00	9.48
Low Channel:				5180	MHz	242Tone_RU61	
5150.000	48.39	PK	H	11.67	60.06	74.00	13.94
5150.000	36.62	AV	H	11.67	48.29	54.00	5.71
5150.000	48.14	PK	V	11.67	59.81	74.00	14.19
5150.000	36.38	AV	V	11.67	48.05	54.00	5.95
10360.000	43.33	PK	H	20.47	63.8	68.20	4.40
10360.000	44.02	PK	V	20.47	64.49	68.20	3.71
Middle Channel:				5200	MHz	242Tone_RU61	
10400.000	43.02	PK	H	20.54	63.56	68.20	4.64
10400.000	43.83	PK	V	20.54	64.37	68.20	3.83
High Channel:				5240	MHz	26Tone_RU8	
5350.000	46.91	PK	H	11.94	58.85	74.00	15.15
5350.000	33.74	AV	H	11.94	45.68	54.00	8.32
5350.000	45.82	PK	V	11.94	57.76	74.00	16.24
5350.000	32.75	AV	V	11.94	44.69	54.00	9.31
High Channel:				5240	MHz	242Tone_RU61	
5350.000	46.76	PK	H	11.94	58.7	74.00	15.30
5350.000	33.28	AV	H	11.94	45.22	54.00	8.78
5350.000	46.51	PK	V	11.94	58.45	74.00	15.55
5350.000	33.12	AV	V	11.94	45.06	54.00	8.94
10480.000	42.87	PK	H	20.42	63.29	68.20	4.91
10480.000	43.74	PK	V	20.42	64.16	68.20	4.04

802.11ax40 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	26Tone_RU0	
5150.000	45.89	PK	H	11.67	57.56	74.00	16.44
5150.000	32.68	AV	H	11.67	44.35	54.00	9.65
5150.000	46.68	PK	V	11.67	58.35	74.00	15.65
5150.000	33.89	AV	V	11.67	45.56	54.00	8.44
Low Channel:				5190	MHz	484Tone_RU65	
5150.000	54.09	PK	H	11.67	65.76	74.00	8.24
5150.000	39.15	AV	H	11.67	50.82	54.00	3.18
5150.000	53.53	PK	V	11.67	65.2	74.00	8.80
5150.000	38.82	AV	V	11.67	50.49	54.00	3.51
10380.000	38.09	PK	H	20.51	58.6	68.20	9.60
10380.000	38.42	PK	V	20.51	58.93	68.20	9.27
High Channel:				5230	MHz	26Tone_RU17	
5350.000	46.05	PK	H	11.94	57.99	74.00	16.01
5350.000	32.51	AV	H	11.94	44.45	54.00	9.55
5350.000	46.97	PK	V	11.94	58.91	74.00	15.09
5350.000	33.66	AV	V	11.94	45.6	54.00	8.40
High Channel:				5230	MHz	484Tone_RU65	
5350.000	47.28	PK	H	11.94	59.22	74.00	14.78
5350.000	33.69	AV	H	11.94	45.63	54.00	8.37
5350.000	47.01	PK	V	11.94	58.95	74.00	15.05
5350.000	33.46	AV	V	11.94	45.4	54.00	8.60
10460.000	38.50	PK	H	20.45	58.95	68.20	9.25
10460.000	38.87	PK	V	20.45	59.32	68.20	8.88

802.11ax80 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	26Tone_RU0	
5150.000	45.89	PK	H	11.67	57.56	74.00	16.44
5150.000	32.68	AV	H	11.67	44.35	54.00	9.65
5150.000	46.68	PK	V	11.67	58.35	74.00	15.65
5150.000	33.89	AV	V	11.67	45.56	54.00	8.44
Middle Channel:				5210	MHz	26Tone_RU36	
5350.000	45.91	PK	H	11.94	57.85	74.00	16.15
5350.000	33.72	AV	H	11.94	45.66	54.00	8.34
5350.000	46.78	PK	V	11.94	58.72	74.00	15.28
5350.000	33.81	AV	V	11.94	45.75	54.00	8.25
Middle Channel:				5210	MHz	994Tone_RU67	
5150.000	51.64	PK	H	11.67	63.31	74.00	10.69
5150.000	39.23	AV	H	11.67	50.9	54.00	3.10
5150.000	51.31	PK	V	11.67	62.98	74.00	11.02
5150.000	38.99	AV	V	11.67	50.66	54.00	3.34
5350.000	46.70	PK	H	11.94	58.64	74.00	15.36
5350.000	34.97	AV	H	11.94	46.91	54.00	7.09
5350.000	46.36	PK	V	11.94	58.3	74.00	15.70
5350.000	34.75	AV	V	11.94	46.69	54.00	7.31
10420.000	35.04	PK	H	20.51	55.55	68.20	12.65
10420.000	34.69	PK	V	20.51	55.2	68.20	13.00

5725-5850MHz

802.11a Mode Chain 0:

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	38.91	PK	H	21.49	60.4	74.00	13.60
11490.000	25.45	AV	H	21.49	46.94	54.00	7.06
11490.000	40.02	PK	V	21.49	61.51	74.00	12.49
11490.000	26.64	AV	V	21.49	48.13	54.00	5.87
Middle Channel: 5785 MHz							
11570.000	39.91	PK	H	21.71	61.62	74.00	12.38
11570.000	26.60	AV	H	21.71	48.31	54.00	5.69
11570.000	41.03	PK	V	21.71	62.74	74.00	11.26
11570.000	27.82	AV	V	21.71	49.53	54.00	4.47
High Channel: 5825 MHz							
11650.000	40.49	PK	H	22.04	62.53	74.00	11.47
11650.000	27.40	AV	H	22.04	49.44	54.00	4.56
11650.000	41.66	PK	V	22.04	63.7	74.00	10.30
11650.000	28.61	AV	V	22.04	50.65	54.00	3.35

802.11a Mode Chain 1:

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	37.58	PK	H	21.49	59.07	74.00	14.93
11490.000	24.84	AV	H	21.49	46.33	54.00	7.67
11490.000	38.63	PK	V	21.49	60.12	74.00	13.88
11490.000	25.75	AV	V	21.49	47.24	54.00	6.76
Middle Channel: 5785 MHz							
11570.000	38.52	PK	H	21.71	60.23	74.00	13.77
11570.000	25.35	AV	H	21.71	47.06	54.00	6.94
11570.000	39.43	PK	V	21.71	61.14	74.00	12.86
11570.000	26.18	AV	V	21.71	47.89	54.00	6.11
High Channel: 5825 MHz							
11650.000	38.75	PK	H	22.04	60.79	74.00	13.21
11650.000	25.59	AV	H	22.04	47.63	54.00	6.37
11650.000	40.00	PK	V	22.04	62.04	74.00	11.96
11650.000	26.71	AV	V	22.04	48.75	54.00	5.25

802.11ac vht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
11490.000	41.03	PK	H	21.49	62.52	74.00	11.48
11490.000	26.70	AV	H	21.49	48.19	54.00	5.81
11490.000	41.95	PK	V	21.49	63.44	74.00	10.56
11490.000	27.56	AV	V	21.49	49.05	54.00	4.95
Middle Channel: 5785 MHz							
11570.000	41.85	PK	H	21.71	63.56	74.00	10.44
11570.000	27.51	AV	H	21.71	49.22	54.00	4.78
11570.000	42.73	PK	V	21.71	64.44	74.00	9.56
11570.000	28.42	AV	V	21.71	50.13	54.00	3.87
High Channel: 5825 MHz							
11650.000	42.31	PK	H	22.04	64.35	74.00	9.65
11650.000	27.80	AV	H	22.04	49.84	54.00	4.16
11650.000	43.14	PK	V	22.04	65.18	74.00	8.82
11650.000	28.87	AV	V	22.04	50.91	54.00	3.09

802.11ac vht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5755 MHz							
11510.000	38.29	PK	H	21.48	59.77	74.00	14.23
11510.000	25.93	AV	H	21.48	47.41	54.00	6.59
11510.000	38.65	PK	V	21.48	60.13	74.00	13.87
11510.000	26.72	AV	V	21.48	48.2	54.00	5.80
High Channel: 5795 MHz							
11590.000	39.77	PK	H	21.78	61.55	74.00	12.45
11590.000	26.96	AV	H	21.78	48.74	54.00	5.26
11590.000	40.55	PK	V	21.78	62.33	74.00	11.67
11590.000	27.84	AV	V	21.78	49.62	54.00	4.38

802.11 ac80 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	36.89	PK	H	21.63	58.52	74.00	15.48
11550.000	24.78	AV	H	21.63	46.41	54.00	7.59
11550.000	37.72	PK	V	21.63	59.35	74.00	14.65
11550.000	25.41	AV	V	21.63	47.04	54.00	6.96

802.11ax20 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	26Tone_RU0	
5650.000	45.69	PK	H	12.32	58.01	68.20	10.19
5700.000	44.95	AV	H	12.55	57.5	105.20	47.70
5720.000	44.91	PK	H	12.57	57.48	110.80	53.32
5725.000	45.71	AV	H	12.57	58.28	122.20	63.92
5650.000	47.03	PK	V	12.32	59.35	68.20	8.85
5700.000	46.67	AV	V	12.55	59.22	105.20	45.98
5720.000	46.44	PK	V	12.57	59.01	110.80	51.79
5725.000	46.93	AV	V	12.57	59.5	122.20	62.70
Low Channel:				5745	MHz	242Tone_RU61	
11490.000	39.64	PK	H	21.49	61.13	74.00	12.87
11490.000	26.23	AV	H	21.49	47.72	54.00	6.28
11490.000	40.52	PK	V	21.49	62.01	74.00	11.99
11490.000	27.08	AV	V	21.49	48.57	54.00	5.43
Middle Channel:				5785	MHz	242Tone_RU61	
11570.000	40.91	PK	H	21.71	62.62	74.00	11.38
11570.000	26.82	AV	H	21.71	48.53	54.00	5.47
11570.000	41.75	PK	V	21.71	63.46	74.00	10.54
11570.000	27.64	AV	V	21.71	49.35	54.00	4.65
High Channel:				5825	MHz	26Tone_RU8	
5850.000	45.96	PK	H	12.77	58.73	122.20	63.47
5855.000	44.97	AV	H	12.8	57.77	110.80	53.03
5875.000	44.91	PK	H	12.89	57.8	105.20	47.40
5925.000	45.52	AV	H	13.03	58.55	68.20	9.65
5850.000	46.91	PK	V	12.77	59.68	122.20	62.52
5855.000	46.67	AV	V	12.80	59.47	110.80	51.33
5875.000	46.42	PK	V	12.89	59.31	105.20	45.89
5925.000	46.51	AV	V	13.03	59.54	68.20	8.66
High Channel:				5825	MHz	242Tone_RU61	
11650.000	41.90	PK	H	22.04	63.94	74.00	10.06
11650.000	27.35	AV	H	22.04	49.39	54.00	4.61
11650.000	42.68	PK	V	22.04	64.72	74.00	9.28
11650.000	28.19	AV	V	22.04	50.23	54.00	3.77

802.11ax40 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	26Tone_RU0	
5650.000	44.68	PK	H	12.32	57	68.20	11.20
5700.000	44.95	AV	H	12.55	57.5	105.20	47.70
5720.000	45.33	PK	H	12.57	57.9	110.80	52.90
5725.000	49.58	AV	H	12.57	62.15	122.20	60.05
5650.000	45.74	PK	V	12.32	58.06	68.20	10.14
5700.000	46.08	AV	V	12.55	58.63	105.20	46.57
5720.000	46.09	PK	V	12.57	58.66	110.80	52.14
5725.000	50.38	AV	V	12.57	62.95	122.20	59.25
Low Channel:				5785	MHz	484Tone_RU65	
11510.000	38.15	PK	H	21.48	59.63	74.00	14.37
11510.000	25.71	AV	H	21.48	47.19	54.00	6.81
11510.000	38.84	PK	V	21.48	60.32	74.00	13.68
11510.000	26.52	AV	V	21.48	48	54.00	6.00
High Channel:				5795	MHz	26Tone_RU17	
5850.000	45.61	PK	H	12.77	58.38	122.20	63.82
5855.000	45.16	AV	H	12.8	57.96	110.80	52.84
5875.000	45.19	PK	H	12.89	58.08	105.20	47.12
5925.000	45.11	AV	H	13.03	58.14	68.20	10.06
5850.000	47.10	PK	V	12.77	59.87	122.20	62.33
5855.000	46.80	AV	V	12.80	59.6	110.80	51.20
5875.000	46.17	PK	V	12.89	59.06	105.20	46.14
5925.000	46.59	AV	V	13.03	59.62	68.20	8.58
High Channel:				5795	MHz	484Tone_RU65	
11590.000	39.45	PK	H	21.78	61.23	74.00	12.77
11590.000	26.78	AV	H	21.78	48.56	54.00	5.44
11590.000	40.17	PK	V	21.78	61.95	74.00	12.05
11590.000	27.53	AV	V	21.78	49.31	54.00	4.69

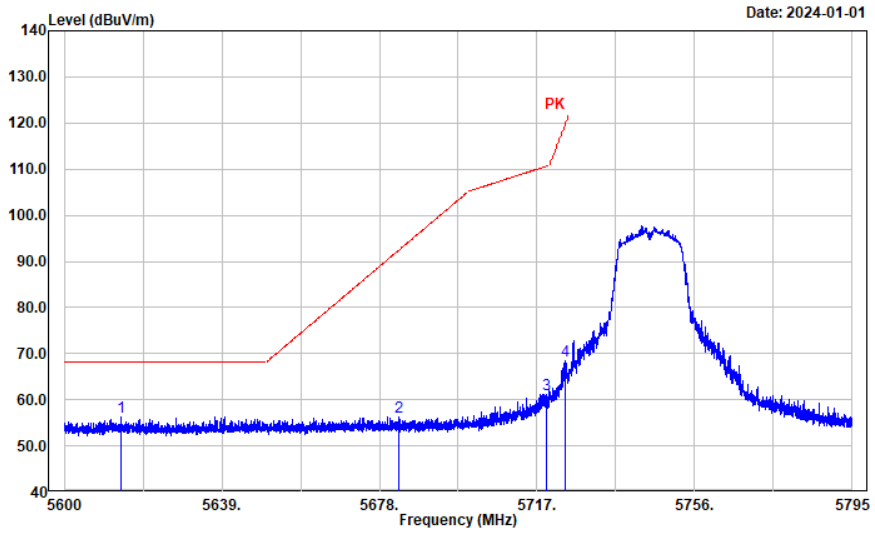
802.11ax80 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Middle Channel:				5775	MHz	26Tone_RU0	
5650.000	45.11	PK	H	12.32	57.43	68.20	10.77
5700.000	44.68	AV	H	12.55	57.23	105.20	47.97
5720.000	46.64	PK	H	12.57	59.21	110.80	51.59
5725.000	52.06	AV	H	12.57	64.63	122.20	57.57
5650.000	46.01	PK	V	12.32	58.33	68.20	9.87
5700.000	46.15	AV	V	12.55	58.7	105.20	46.50
5720.000	48.21	PK	V	12.57	60.78	110.80	50.02
5725.000	53.45	AV	V	12.57	66.02	122.20	56.18
Middle Channel:				5775	MHz	26Tone_RU36	
5850.000	48	PK	H	12.77	60.77	122.20	61.43
5855.000	44.59	AV	H	12.8	57.39	110.80	53.41
5875.000	45.42	PK	H	12.89	58.31	105.20	46.89
5925.000	45.8	AV	H	13.03	58.83	68.20	9.37
5850.000	49.25	PK	V	12.77	62.02	122.20	60.18
5855.000	46.14	AV	V	12.80	58.94	110.80	51.86
5875.000	46.91	PK	V	12.89	59.8	105.20	45.40
5925.000	46.72	AV	V	13.03	59.75	68.20	8.45
Middle Channel:				5775	MHz	996Tone_RU67	
11550.000	36.98	PK	H	21.63	58.61	74.00	15.39
11550.000	24.92	AV	H	21.63	46.55	54.00	7.45
11550.000	37.43	PK	V	21.63	59.06	74.00	14.94
11550.000	25.50	AV	V	21.63	47.13	54.00	6.87

Test plots for Band Edge Measurements (Radiated)

802.11a Chain 0			
Test Channel:	**5745MHz**	**Ant. Polar. :**	**Horizontal**

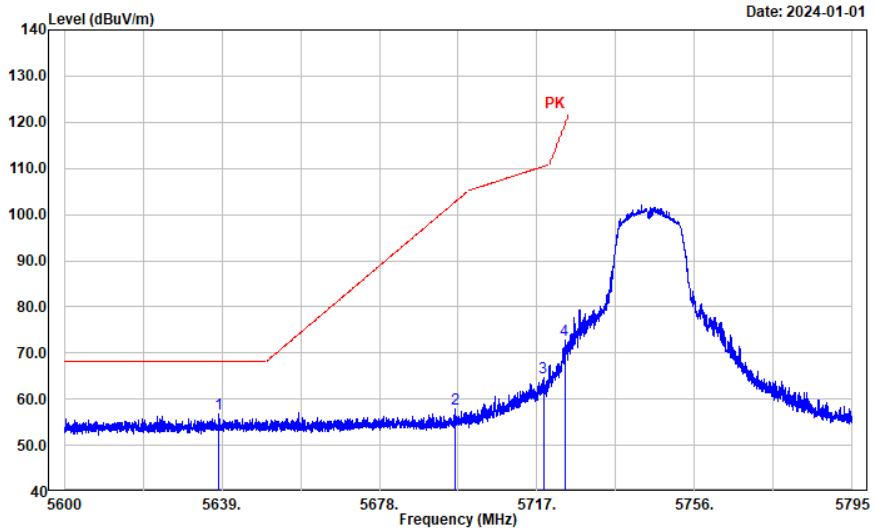
```
Project No.: CR231273520-RF
     Tester: Mack Huang
Polarization: Horizontal
       Note: 802.11a Mode Chain 0 5745 Edge
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5614.157	44.25	12.12	56.37	68.20	11.83	Peak
2	5682.758	43.83	12.47	56.30	92.48	36.18	Peak
3	5719.418	48.61	12.57	61.18	110.64	49.46	Peak
4	5723.864	55.88	12.57	68.45	119.61	51.16	Peak

802.11a Chain 0			
Test Channel:	**5745MHz**	**Ant. Polar. :**	**Vertical**

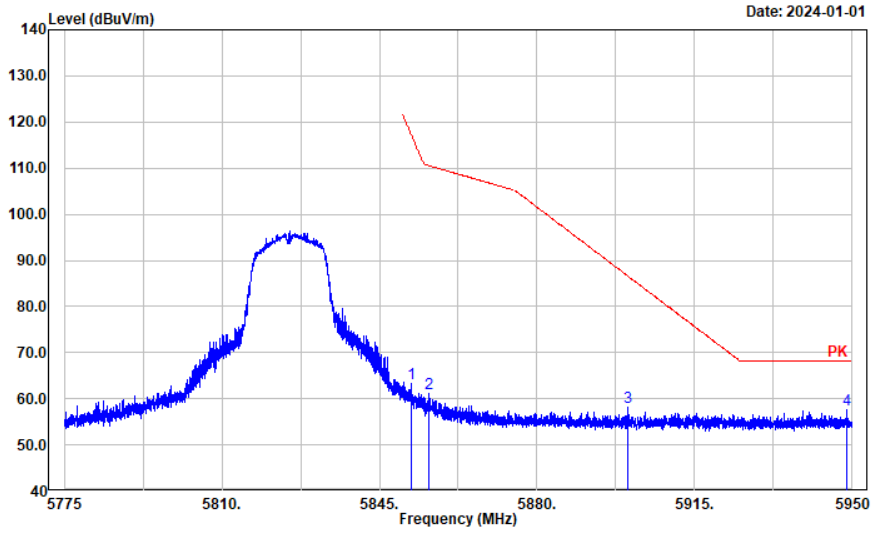
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11a Mode Chain 0 5745 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5638.337	44.46	12.26	56.72	68.20	11.48	Peak
2	5696.642	45.22	12.53	57.75	102.73	44.98	Peak
3	5718.560	52.15	12.57	64.72	110.40	45.68	Peak
4	5723.825	60.26	12.57	72.83	119.52	46.69	Peak

802.11a Chain 0			
Test Channel:	**5825MHz**	**Ant. Polar. :**	**Horizontal**

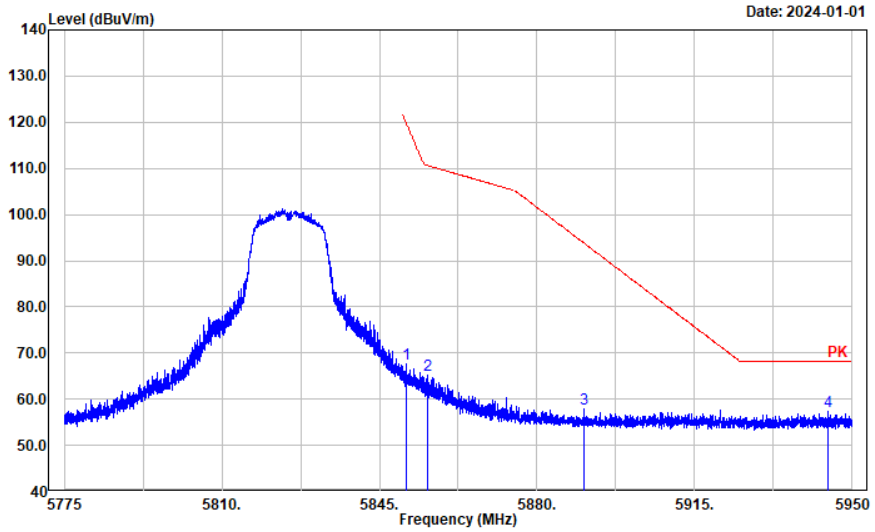
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11a Mode Chain 0 5825 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5851.965	50.56	12.78	63.34	117.72	54.38	Peak
2	5855.955	48.44	12.80	61.24	110.53	49.29	Peak
3	5900.090	45.06	13.02	58.08	86.59	28.51	Peak
4	5948.705	44.57	13.03	57.60	68.20	10.60	Peak

802.11a Chain 0			
Test Channel:	**5825MHz**	**Ant. Polar. :**	**Vertical**

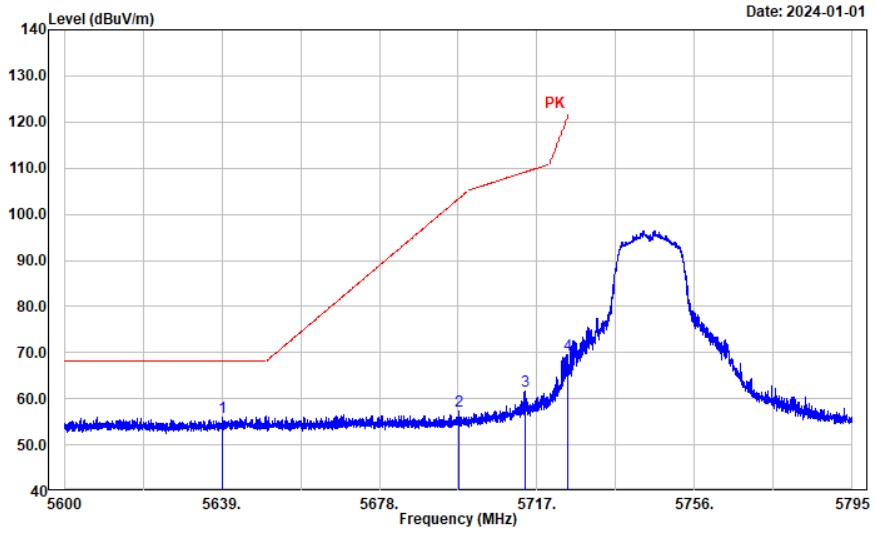
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11a Mode Chain 0 5825 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5850.845	54.83	12.77	67.60	120.27	52.67	Peak
2	5855.710	52.43	12.80	65.23	110.60	45.37	Peak
3	5890.500	44.79	12.97	57.76	93.70	35.94	Peak
4	5944.575	44.19	13.03	57.22	68.20	10.98	Peak

802.11a Chain 1			
Test Channel:	**5745MHz**	**Ant. Polar. :**	**Horizontal**

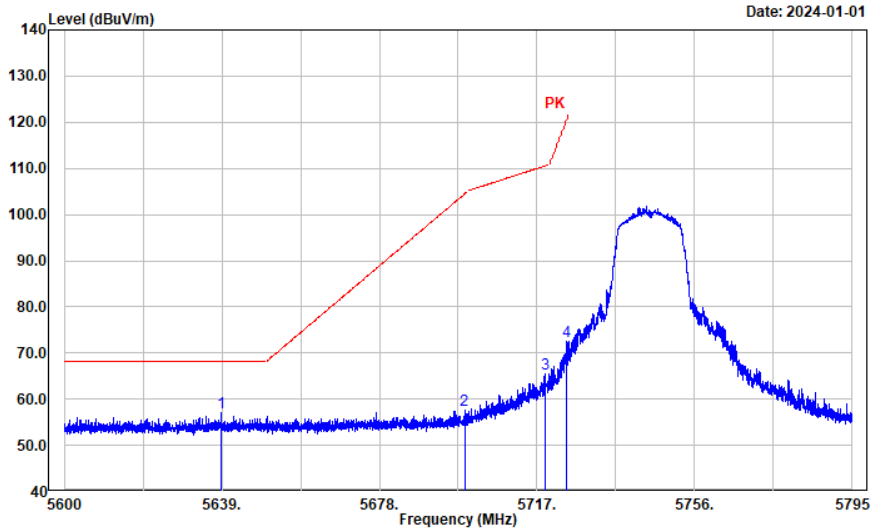
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11a Mode Chain 1 5745 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5639.078	43.79	12.26	56.05	68.20	12.15	Peak
2	5697.578	44.79	12.54	57.33	103.42	46.09	Peak
3	5714.192	49.15	12.56	61.71	109.18	47.47	Peak
4	5724.527	57.08	12.57	69.65	121.12	51.47	Peak

802.11a Chain 1			
Test Channel:	**5745MHz**	**Ant. Polar. :**	**Vertical**

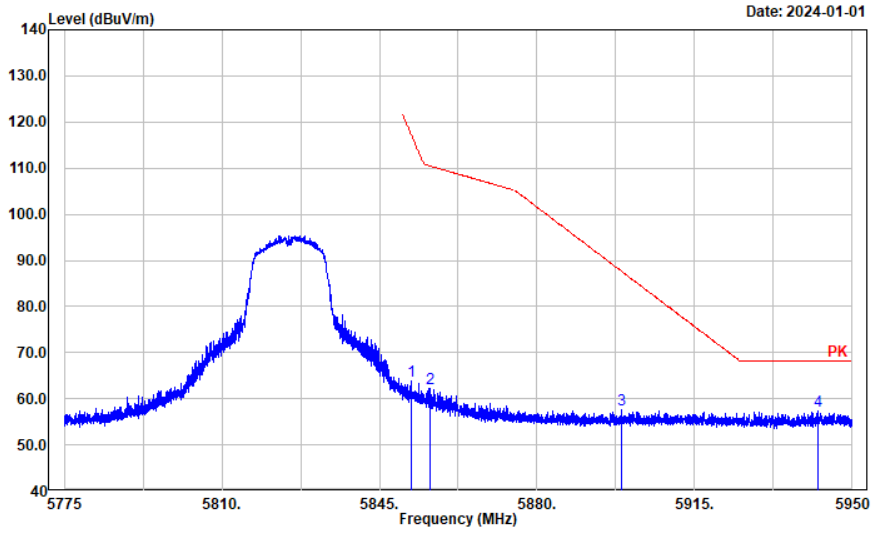
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11a Mode Chain 1 5745 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5638.922	44.73	12.26	56.99	68.20	11.21	Peak
2	5699.060	44.95	12.55	57.50	104.51	47.01	Peak
3	5718.911	52.84	12.57	65.41	110.50	45.09	Peak
4	5724.332	59.93	12.57	72.50	120.68	48.18	Peak

802.11a Chain 1			
Test Channel:	**5825MHz**	**Ant. Polar. :**	**Horizontal**

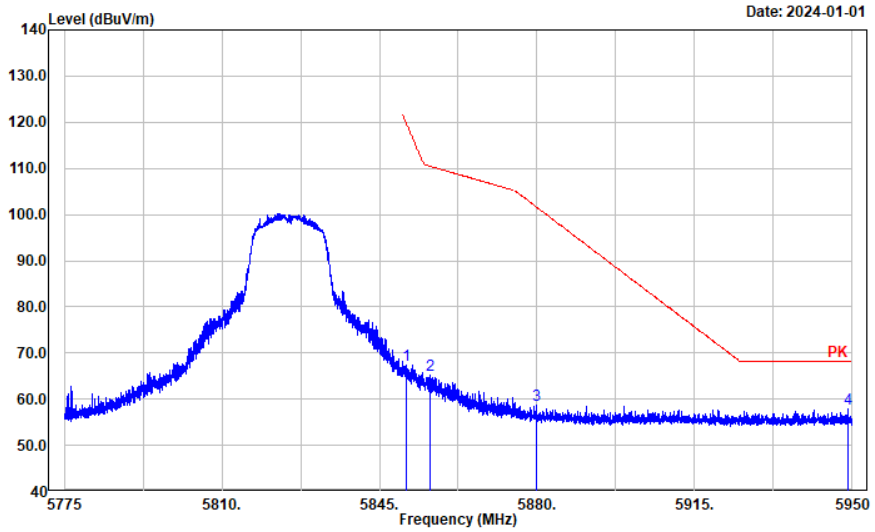
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11a Mode Chain 1 5825 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5852.175	51.03	12.78	63.81	117.24	53.43	Peak
2	5856.130	49.48	12.80	62.28	110.48	48.20	Peak
3	5898.690	44.58	13.01	57.59	87.63	30.04	Peak
4	5942.475	44.34	13.03	57.37	68.20	10.83	Peak

802.11a Chain 1			
Test Channel:	**5825MHz**	**Ant. Polar. :**	**Vertical**

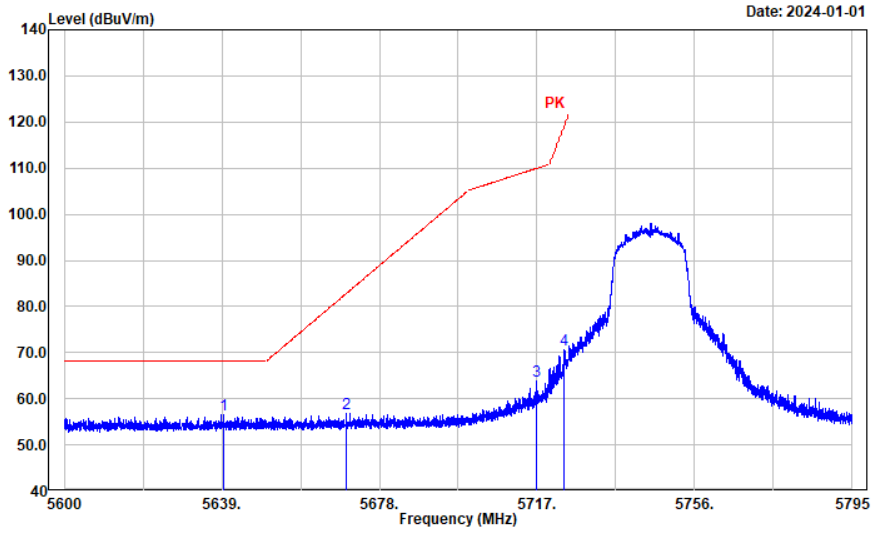
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11a Mode Chain 1 5825 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5850.985	54.54	12.77	67.31	119.95	52.64	Peak
2	5856.130	52.49	12.80	65.29	110.48	45.19	Peak
3	5879.755	45.90	12.92	58.82	101.67	42.85	Peak
4	5949.125	44.81	13.03	57.84	68.20	10.36	Peak

802.11ac vht20			
Test Channel:	**5745MHz**	**Ant. Polar. :**	**Horizontal**

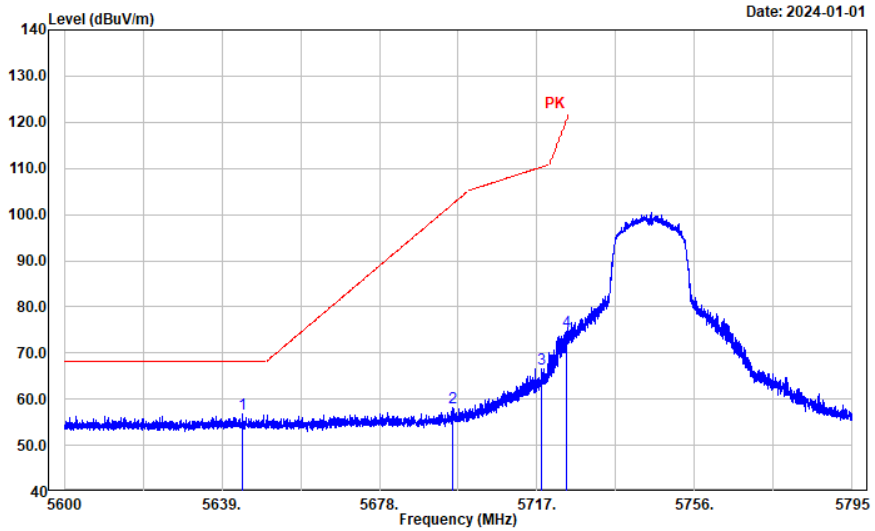
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5639.507	44.20	12.26	56.46	68.20	11.74	Peak
2	5669.732	44.38	12.41	56.79	82.84	26.05	Peak
3	5716.961	51.36	12.57	63.93	109.95	46.02	Peak
4	5723.708	58.18	12.57	70.75	119.26	48.51	Peak

802.11ac vht20			
Test Channel:	**5745MHz**	**Ant. Polar. :**	**Vertical**

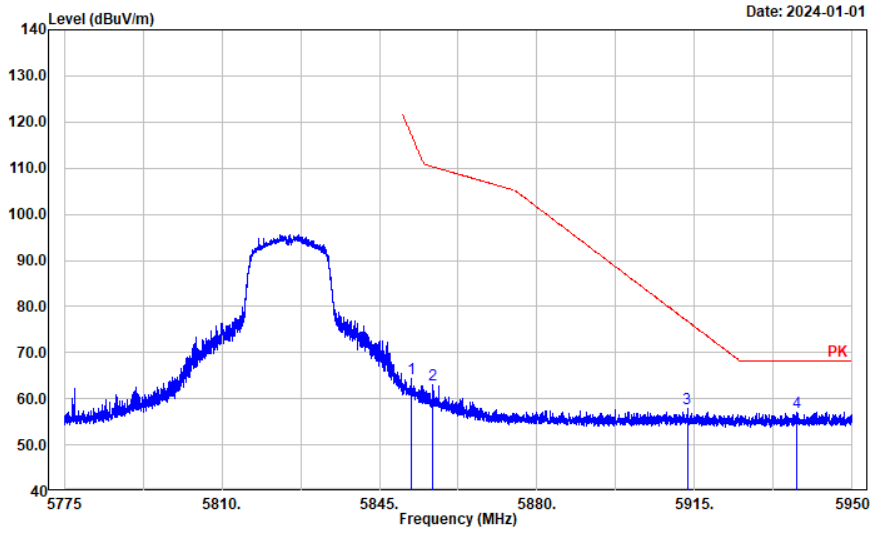
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5644.187	44.56	12.29	56.85	68.20	11.35	Peak
2	5696.135	45.58	12.53	58.11	102.35	44.24	Peak
3	5718.131	54.02	12.57	66.59	110.28	43.69	Peak
4	5724.332	62.02	12.57	74.59	120.68	46.09	Peak

802.11ac vht20			
Test Channel:	**5825MHz**	**Ant. Polar. :**	**Horizontal**

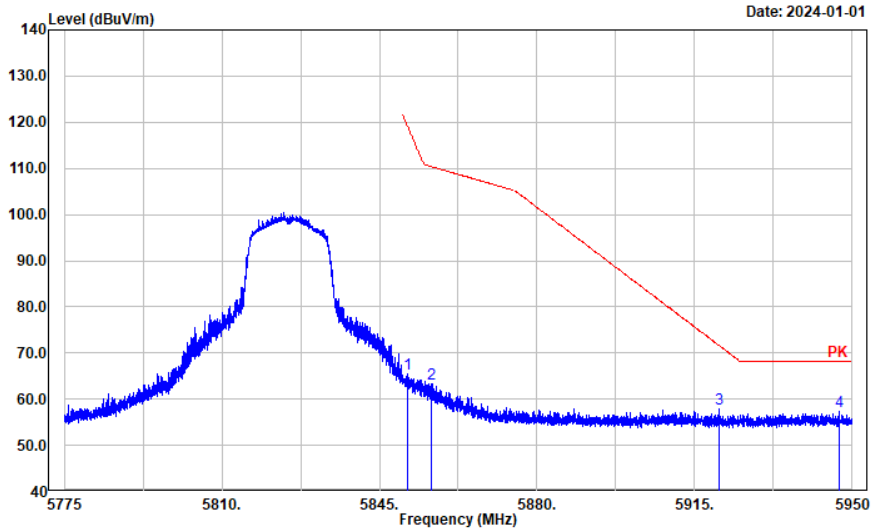
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5852.175	51.74	12.78	64.52	117.24	52.72	Peak
2	5856.935	50.10	12.81	62.91	110.26	47.35	Peak
3	5913.355	44.90	13.03	57.93	76.79	18.86	Peak
4	5937.645	44.04	13.03	57.07	68.20	11.13	Peak

802.11ac vht20			
Test Channel:	**5825MHz**	**Ant. Polar. :**	**Vertical**

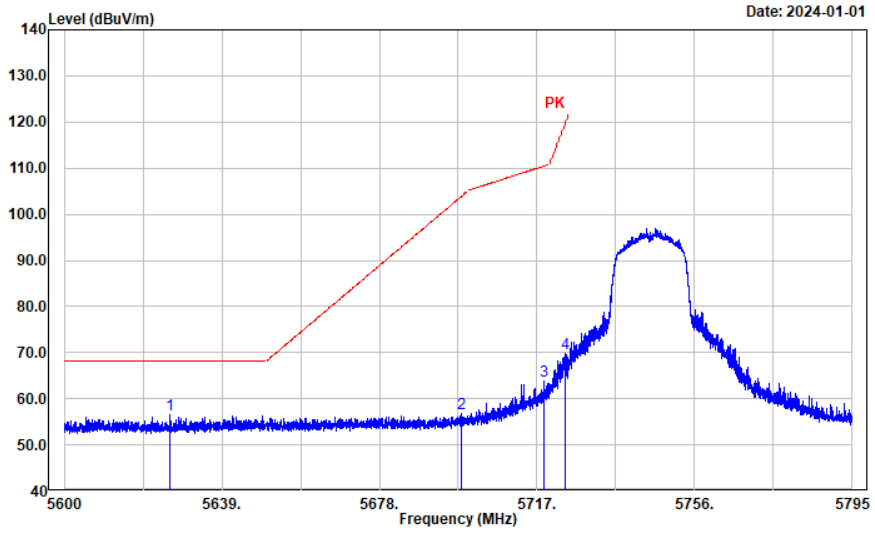
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5851.265	52.59	12.78	65.37	119.31	53.94	Peak
2	5856.655	50.61	12.81	63.42	110.34	46.92	Peak
3	5920.425	44.98	13.02	58.00	71.57	13.57	Peak
4	5946.990	44.32	13.04	57.36	68.20	10.84	Peak

802.11ax hew20_242Tone_RU61			
Test Channel:	**5745MHz**	**Ant. Polar. :**	**Horizontal**

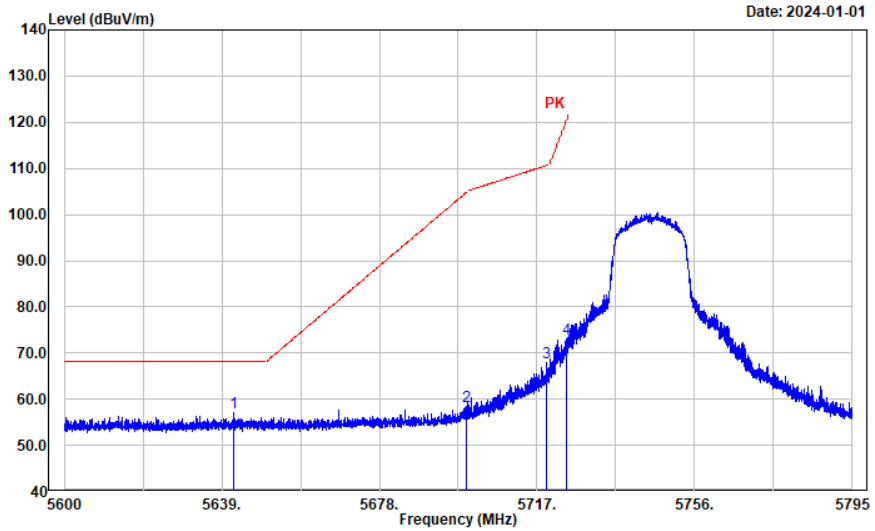
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5626.286	44.29	12.19	56.48	68.20	11.72	Peak
2	5698.397	44.25	12.55	56.80	104.02	47.22	Peak
3	5718.638	51.20	12.57	63.77	110.42	46.65	Peak
4	5723.981	57.33	12.57	69.90	119.88	49.98	Peak

802.11ax hew20_242Tone_RU61			
Test Channel:	**5745MHz**	**Ant. Polar. :**	**Vertical**

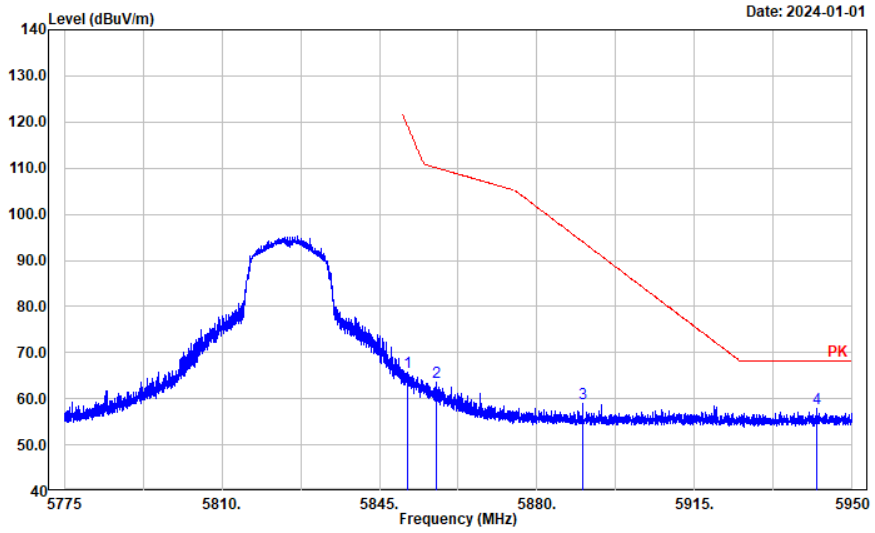
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5641.886	44.80	12.28	57.08	68.20	11.12	Peak
2	5699.450	45.94	12.55	58.49	104.79	46.30	Peak
3	5719.457	55.31	12.57	67.88	110.65	42.77	Peak
4	5724.254	60.49	12.57	73.06	120.50	47.44	Peak

802.11ax hew20_242Tone_RU61			
Test Channel:	**5825MHz**	**Ant. Polar. :**	**Horizontal**

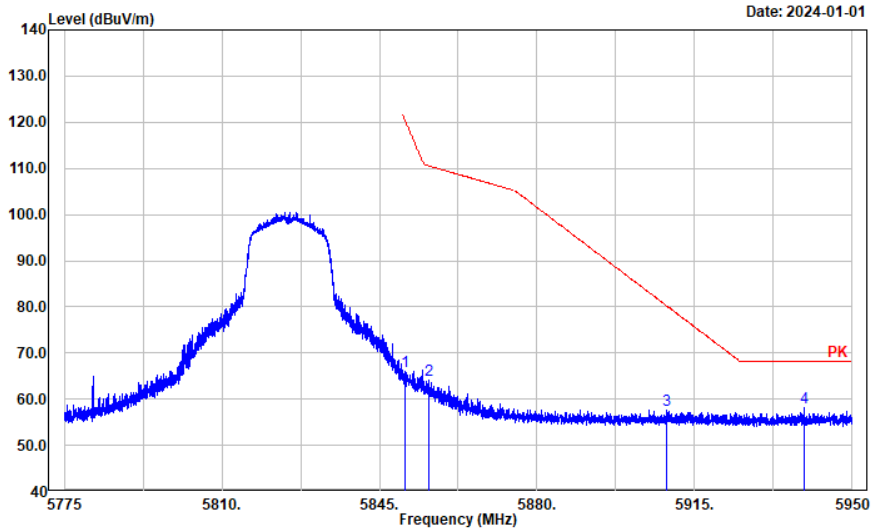
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5851.370	53.06	12.78	65.84	119.08	53.24	Peak
2	5857.705	50.89	12.81	63.70	110.04	46.34	Peak
3	5890.080	45.94	12.97	58.91	94.01	35.10	Peak
4	5942.160	44.80	13.03	57.83	68.20	10.37	Peak

802.11ax hew20_242Tone_RU61			
Test Channel:	**5825MHz**	**Ant. Polar. :**	**Vertical**

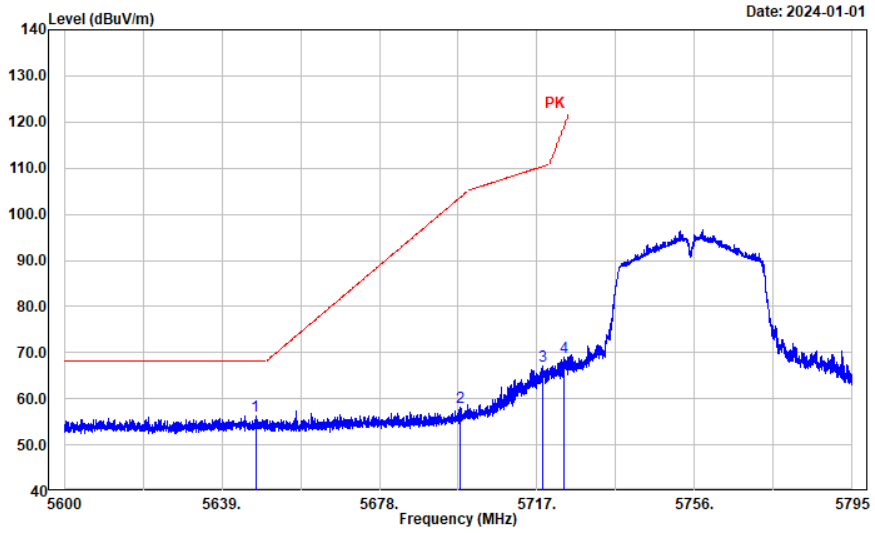
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5850.600	53.29	12.77	66.06	120.83	54.77	Peak
2	5856.095	51.42	12.80	64.22	110.49	46.27	Peak
3	5908.770	44.67	13.01	57.68	80.18	22.50	Peak
4	5939.290	45.08	13.03	58.11	68.20	10.09	Peak

802.11ac vht40			
Test Channel:	**5755MHz**	**Ant. Polar. :**	**Horizontal**

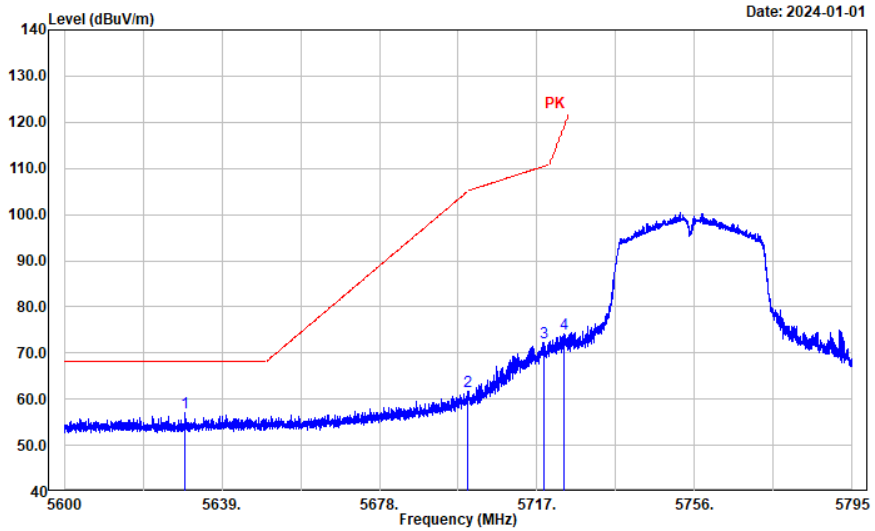
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5647.346	43.86	12.32	56.18	68.20	12.02	Peak
2	5697.929	45.50	12.54	58.04	103.67	45.63	Peak
3	5718.521	54.60	12.57	67.17	110.39	43.22	Peak
4	5723.591	56.36	12.57	68.93	118.99	50.06	Peak

802.11ac vht40			
Test Channel:	**5755MHz**	**Ant. Polar. :**	**Vertical**

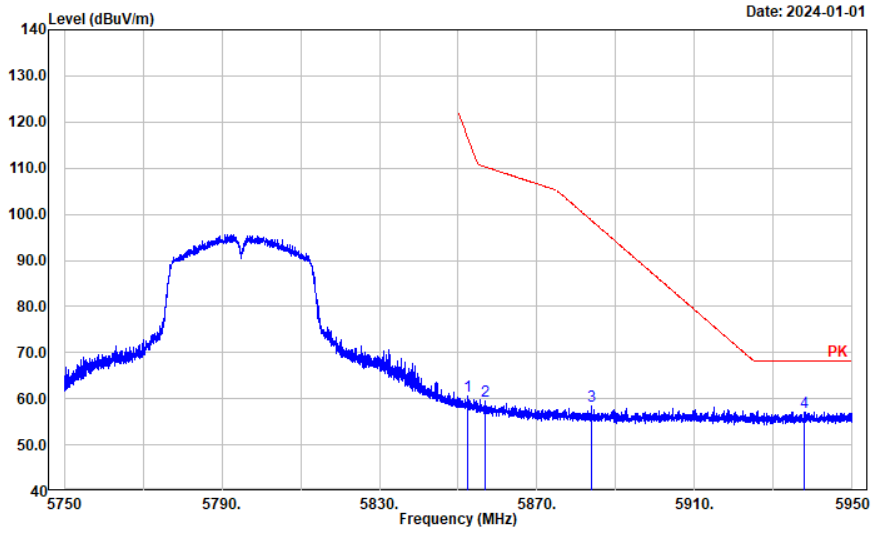
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5629.913	44.85	12.22	57.07	68.20	11.13	Peak
2	5699.723	49.21	12.55	61.76	105.00	43.24	Peak
3	5718.638	59.75	12.57	72.32	110.42	38.10	Peak
4	5723.786	61.46	12.57	74.03	119.43	45.40	Peak

802.11ac vht40			
Test Channel:	**5795MHz**	**Ant. Polar. :**	**Horizontal**

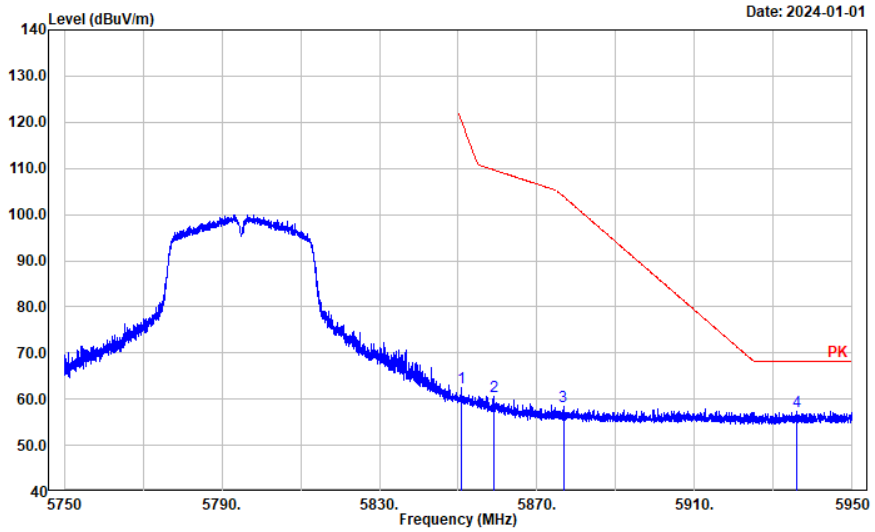
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5852.240	47.74	12.78	60.52	117.09	56.57	Peak
2	5856.920	46.71	12.81	59.52	110.26	50.74	Peak
3	5883.840	45.51	12.94	58.45	98.64	40.19	Peak
4	5937.960	44.17	13.03	57.20	68.20	11.00	Peak

802.11ac vht40			
Test Channel:	**5795MHz**	**Ant. Polar. :**	**Vertical**

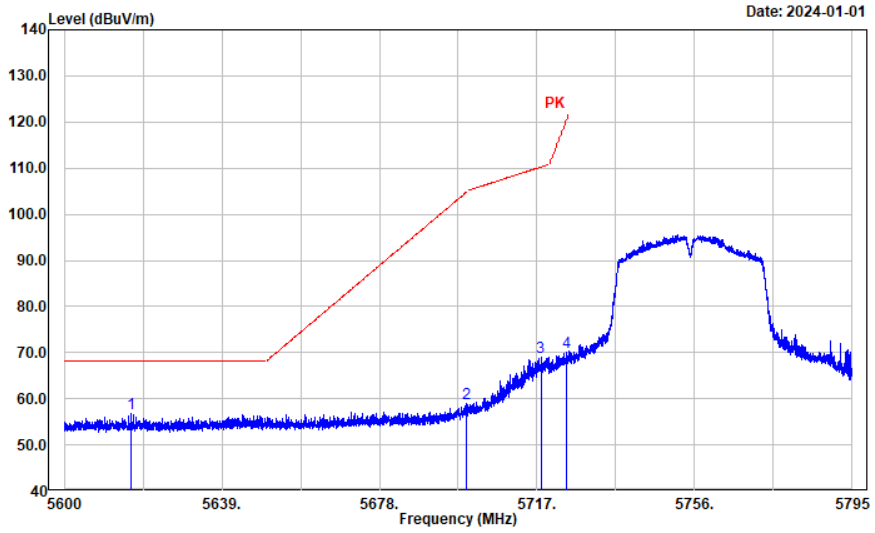
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5850.760	49.84	12.77	62.61	120.47	57.86	Peak
2	5859.040	47.91	12.81	60.72	109.67	48.95	Peak
3	5876.680	45.54	12.90	58.44	103.95	45.51	Peak
4	5935.880	44.32	13.04	57.36	68.20	10.84	Peak

802.11ax hew40_484Tone_RU65			
Test Channel:	**5755MHz**	**Ant. Polar. :**	**Horizontal**

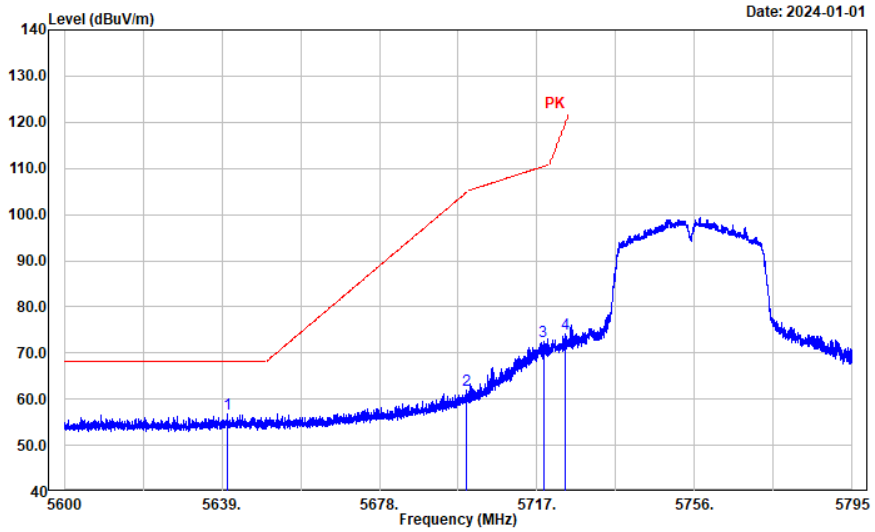
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5616.653	44.56	12.14	56.70	68.20	11.50	Peak
2	5699.489	46.34	12.55	58.89	104.82	45.93	Peak
3	5717.936	56.53	12.57	69.10	110.22	41.12	Peak
4	5724.176	57.42	12.57	69.99	120.32	50.33	Peak

802.11ax hew40_484Tone_RU65			
Test Channel:	**5755MHz**	**Ant. Polar. :**	**Vertical**

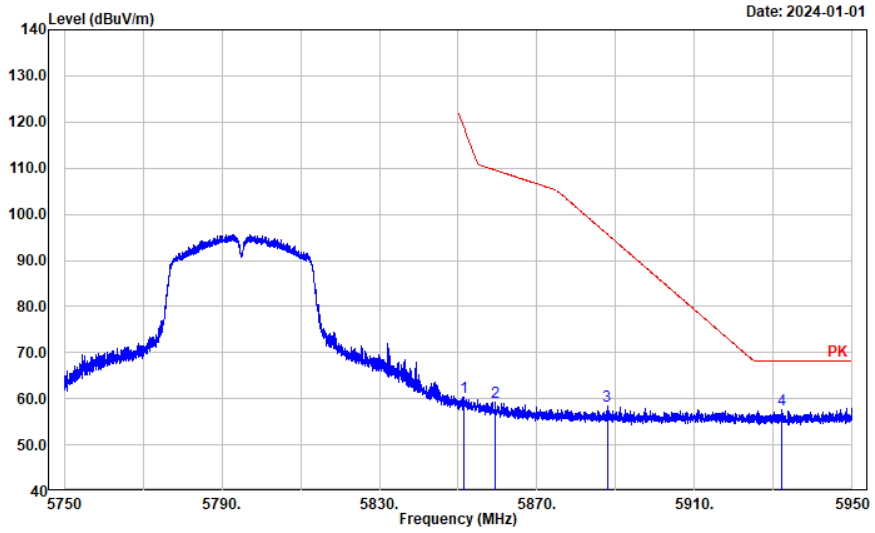
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5640.404	44.52	12.27	56.79	68.20	11.41	Peak
2	5699.372	49.32	12.55	61.87	104.74	42.87	Peak
3	5718.560	60.04	12.57	72.61	110.40	37.79	Peak
4	5723.903	61.71	12.57	74.28	119.70	45.42	Peak

802.11ax hew40_484Tone_RU65			
Test Channel:	**5795MHz**	**Ant. Polar. :**	**Horizontal**

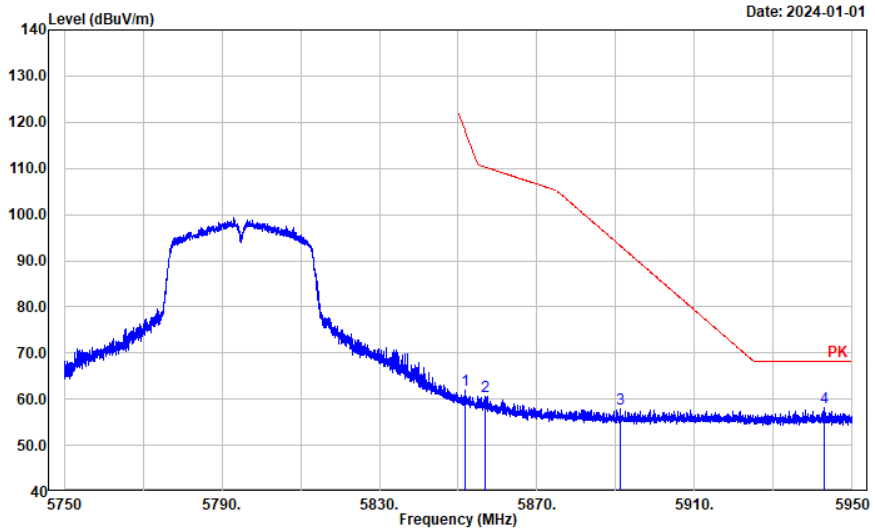
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5851.320	47.63	12.78	60.41	119.19	58.78	Peak
2	5859.320	46.49	12.81	59.30	109.59	50.29	Peak
3	5887.800	45.49	12.96	58.45	95.70	37.25	Peak
4	5932.240	44.68	13.03	57.71	68.20	10.49	Peak

802.11ax hew40_484Tone_RU65			
Test Channel:	**5795MHz**	**Ant. Polar. :**	**Vertical**

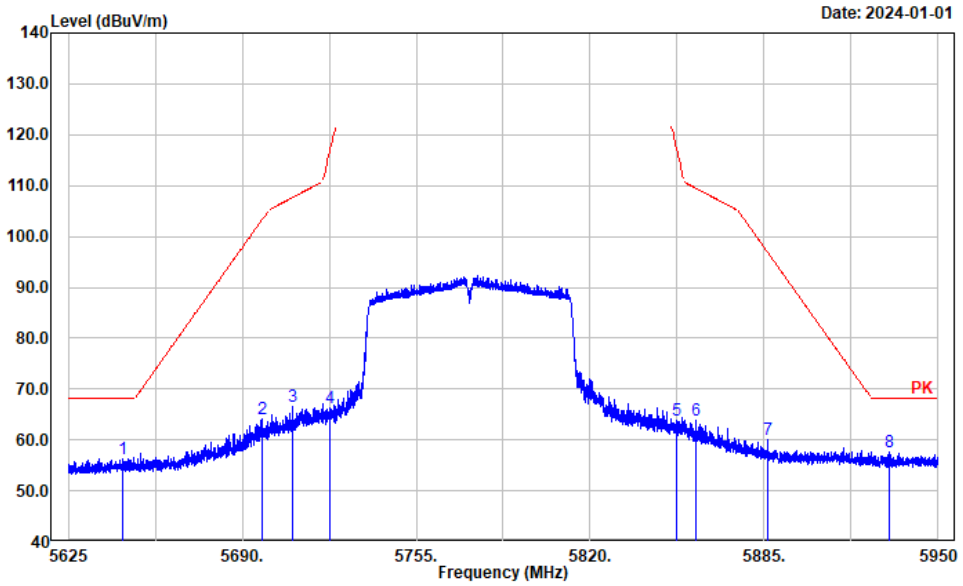
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5851.800	49.22	12.78	62.00	118.10	56.10	Peak
2	5856.760	47.81	12.81	60.62	110.31	49.69	Peak
3	5891.080	44.98	12.98	57.96	93.27	35.31	Peak
4	5942.760	45.26	13.03	58.29	68.20	9.91	Peak

802.11ac vht80			
Test Channel:	**5775MHz**	**Ant. Polar. :**	**Horizontal**

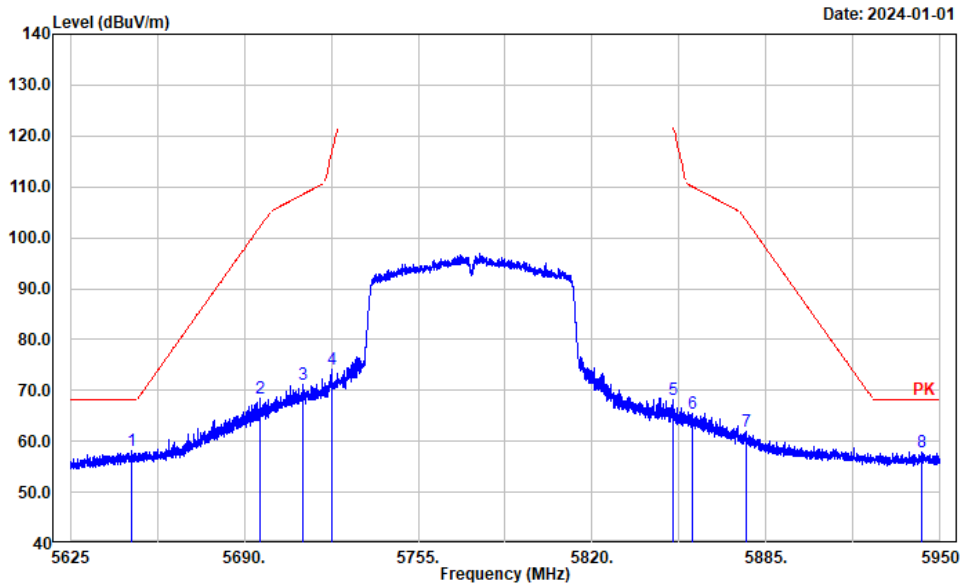
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11 ac80 Mode 5775 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5645.280	44.07	12.29	56.36	68.20	11.84	Peak
2	5697.540	51.55	12.54	64.09	103.39	39.30	Peak
3	5708.785	54.03	12.56	66.59	107.66	41.07	Peak
4	5722.695	53.66	12.57	66.23	116.95	50.72	Peak
5	5852.305	51.00	12.78	63.78	116.94	53.16	Peak
6	5859.455	51.00	12.82	63.82	109.55	45.73	Peak
7	5886.430	47.05	12.96	60.01	96.71	36.70	Peak
8	5931.800	44.48	13.03	57.51	68.20	10.69	Peak

802.11ac vht80			
Test Channel:	**5775MHz**	**Ant. Polar. :**	**Vertical**

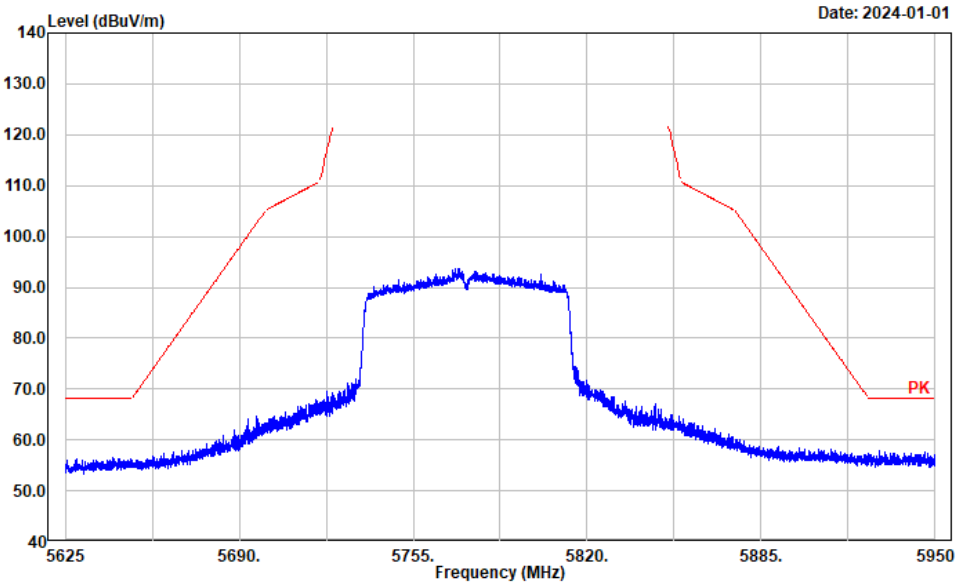
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11 ac80 Mode 5775 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5647.750	45.95	12.32	58.27	68.20	9.93	Peak
2	5695.785	55.89	12.53	68.42	102.09	33.67	Peak
3	5711.970	58.54	12.56	71.10	108.55	37.45	Peak
4	5722.630	61.70	12.57	74.27	116.80	42.53	Peak
5	5850.290	55.29	12.77	68.06	121.54	53.48	Peak
6	5857.505	52.74	12.81	65.55	110.10	44.55	Peak
7	5877.655	49.09	12.90	61.99	103.23	41.24	Peak
8	5942.915	44.83	13.03	57.86	68.20	10.34	Peak

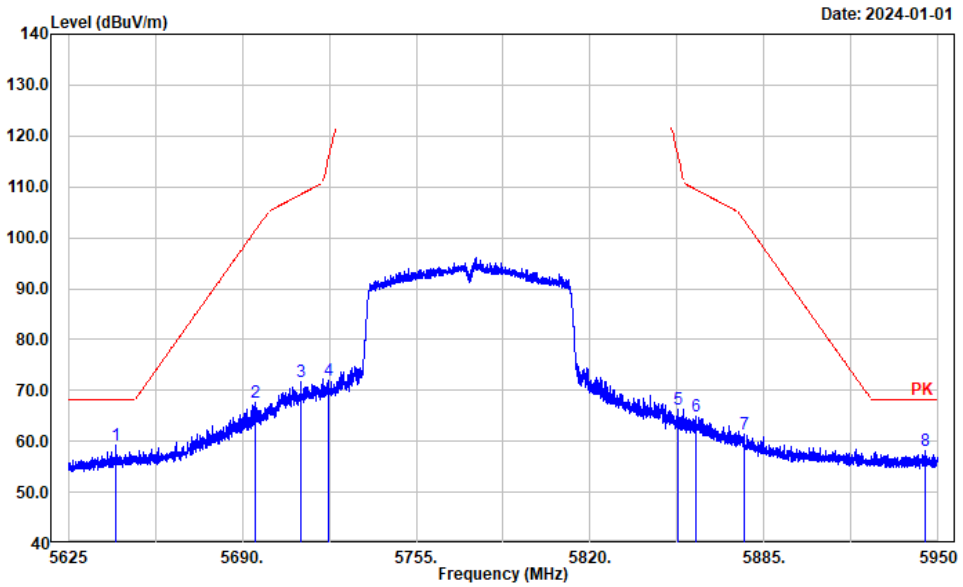
802.11ax hew80_996Tone_RU67			
Test Channel:	**5775MHz**	**Ant. Polar. :**	**Horizontal**

Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note: 802.11 ax80 Mode 5775 Edge



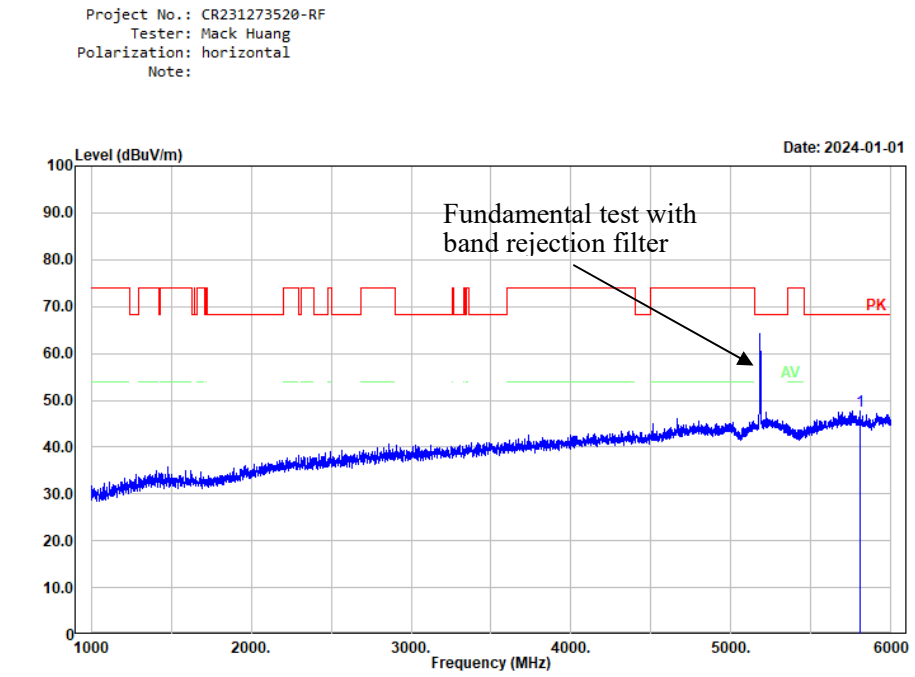
802.11ax hew80_996Tone_RU67			
Test Channel:	**5775MHz**	**Ant. Polar. :**	**Vertical**

Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note: 802.11 ax80 Mode 5775 Edge



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5643.005	46.99	12.28	59.27	68.20	8.93	Peak
2	5694.940	55.17	12.53	67.70	101.47	33.77	Peak
3	5711.710	59.08	12.56	71.64	108.48	36.84	Peak
4	5722.305	59.37	12.57	71.94	116.06	44.12	Peak
5	5853.020	53.51	12.78	66.29	115.31	49.02	Peak
6	5859.390	52.13	12.82	64.95	109.57	44.62	Peak
7	5877.460	48.38	12.90	61.28	103.37	42.09	Peak
8	5945.385	45.01	13.03	58.04	68.20	10.16	Peak

Listed with the worst harmonic margin test plot (802.11 ac20 Mode 5180MHz)
t

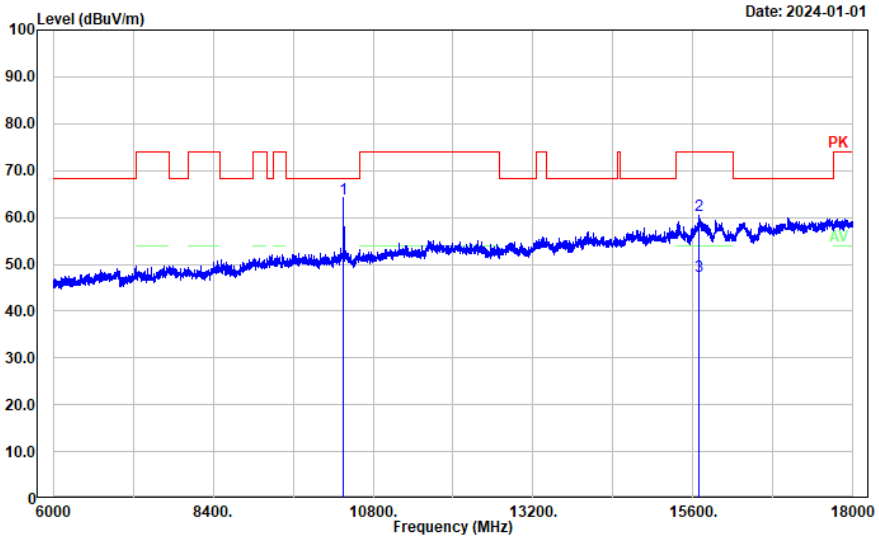
Horizontal	
1-6GHz	

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5808.000	35.05	12.70	47.75	68.20	20.45	Peak

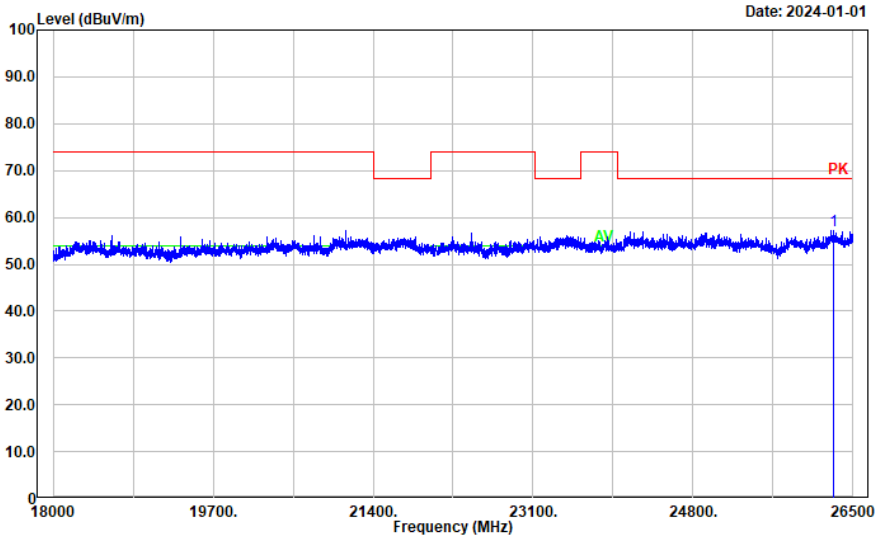
Horizontal

6-18GHz

Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: horizontal
Note:



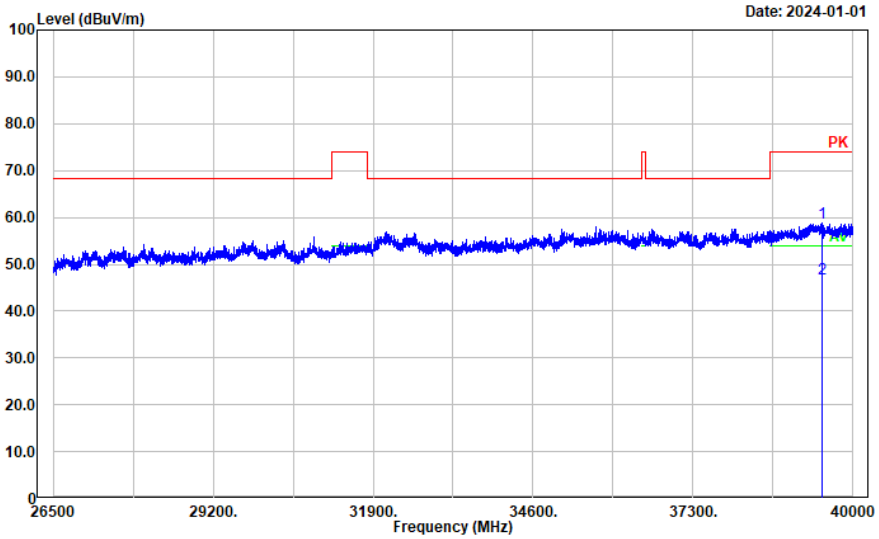
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	10360.000	43.60	20.47	64.07	68.20	4.13	Peak
2	15679.200	35.67	24.77	60.44	74.00	13.56	Peak
3	15679.200	22.68	24.77	47.45	54.00	6.55	Average

Horizontal	
18-26.5GHz	Project No.: CR231273520-RF Tester: Mack Huang Polarization: Horizontal Note:  No. Frequency (MHz) Reading (dBµV) Factor (dB/m) Result (dBµV/m) Limit (dBµV/m) Margin (dB) Detector 1 26294.300 50.33 6.94 57.27 68.20 10.93 Peak

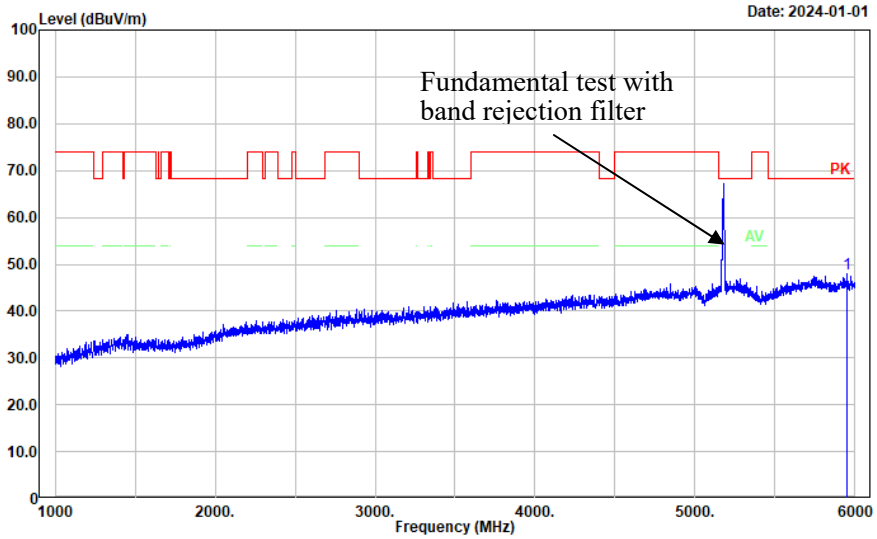
Horizontal

26.5-40GHz

Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Horizontal
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	39487.000	48.65	10.17	58.82	74.00	15.18	Peak
2	39487.000	36.61	10.17	46.78	54.00	7.22	Average

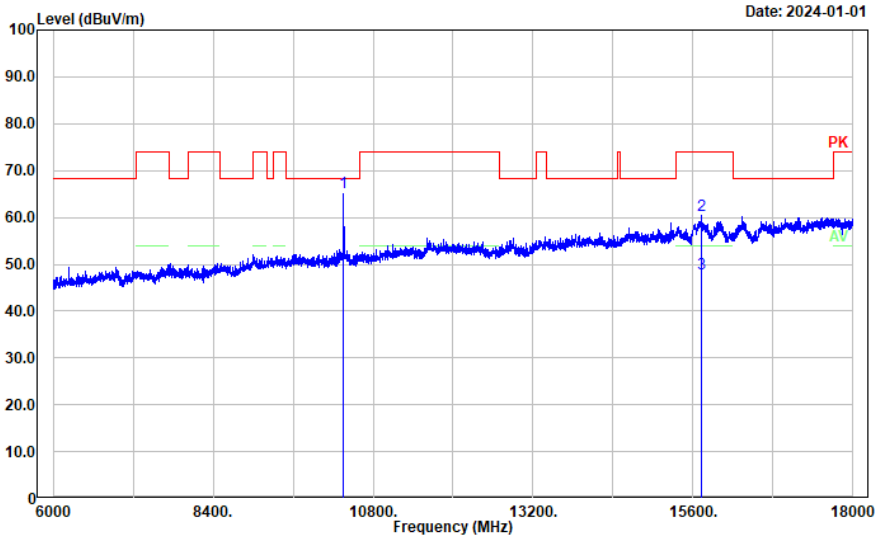
Vertical	
1-6GHz	Project No.: CR231273520-RF Tester: Mack Huang Polarization: vertical Note: 

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5948.000	34.83	13.03	47.86	68.20	20.34	Peak

Vertical

6-18GHz

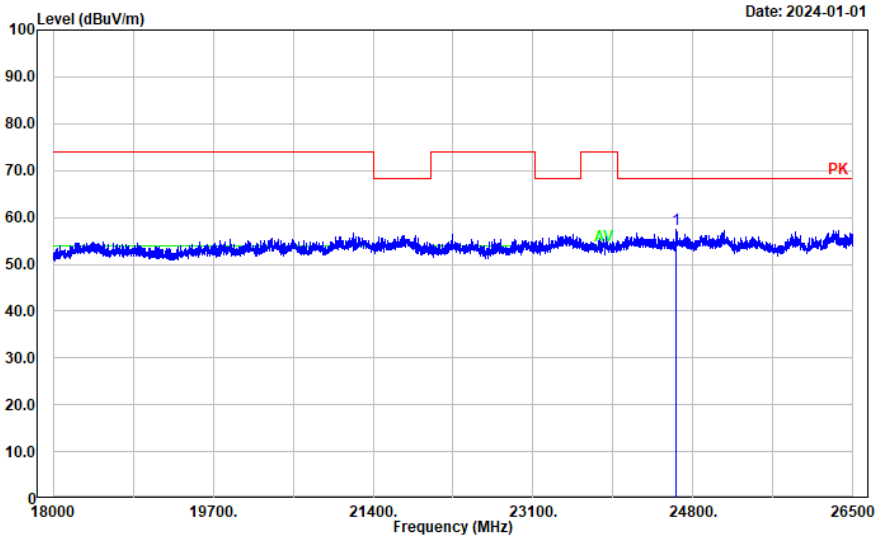
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	10360.000	44.72	20.47	65.19	68.20	3.01	Peak
2	15724.800	35.55	24.82	60.37	74.00	13.63	Peak
3	15724.800	23.07	24.82	47.89	54.00	6.11	Average

Vertical	
18-26.5GHz	

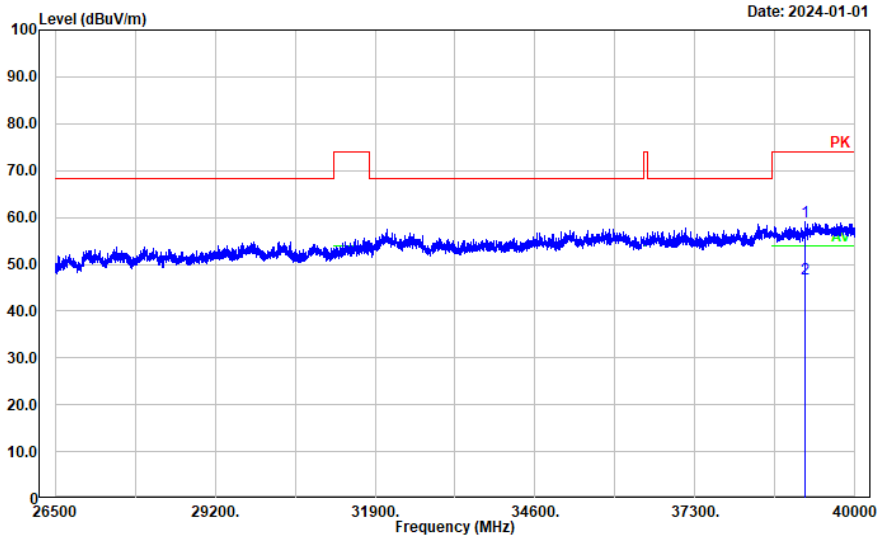
Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	24624.900	51.96	5.39	57.35	68.20	10.85	Peak

Vertical	
26.5-40GHz	

Project No.: CR231273520-RF
Tester: Mack Huang
Polarization: Vertical
Note:



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	39163.000	48.68	10.28	58.96	74.00	15.04	Peak
2	39163.000	36.50	10.28	46.78	54.00	7.22	Average

4.3 Emission Bandwidth:

Serial Number:	2EXR-1	Test Date:	2023/12/20-2024/03/02
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo, Len Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	23-27.5	Relative Humidity: (%)	37-43	ATM Pressure: (kPa)	101-101.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	2023-04-18	2024-04-17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17

** 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	32.65	19.80
	5200	34.05	19.52
	5240	36.25	19.16
802.11ac vht20	5180	42.35	20.80
	5200	42.35	20.72
	5240	40.40	19.92
802.11ac vht40	5190	68.31	37.60
	5230	78.75	38.00
802.11ac vht80	5210	205.26	80.64
802.11ax hew20 (242Tone_RU61)	5180	38.10	19.92
	5200	42.35	19.88
	5240	35.60	19.68
802.11ax hew40 (484Tone_RU65)	5190	73.40	38.32
	5230	72.20	38.24
802.11ax hew80 (996Tone_RU67)	5210	154.00	78.72
Note: Test only was performed at Chain 0.			

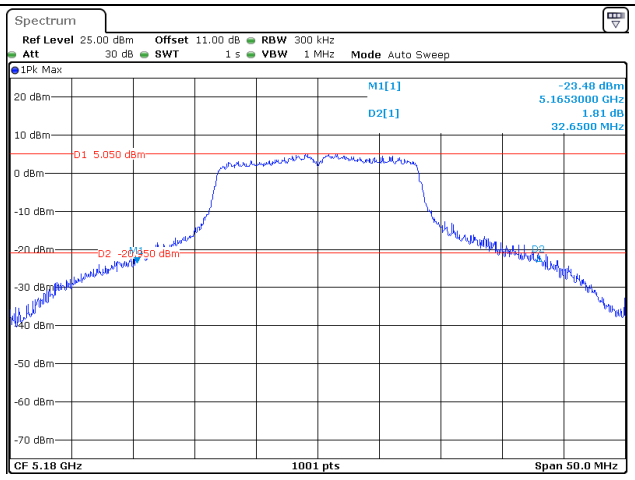
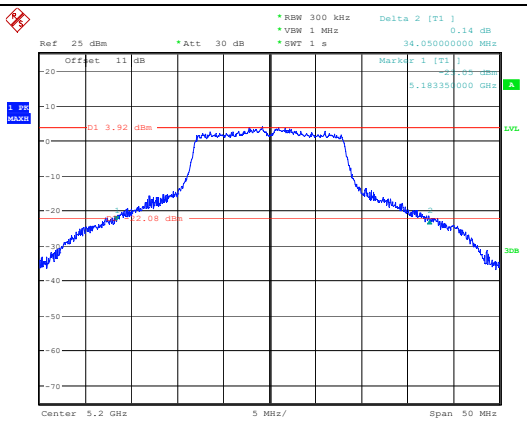
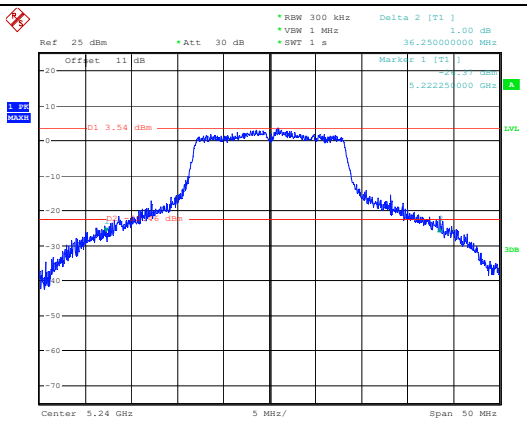
The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth

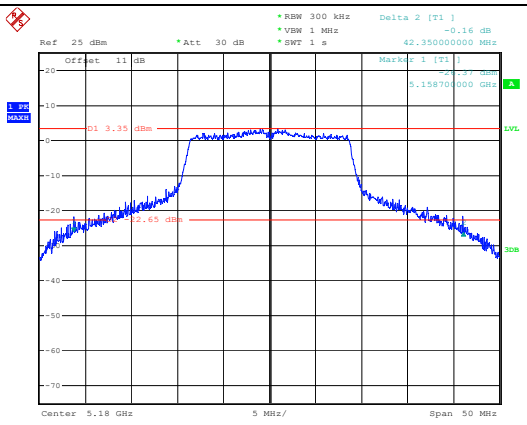
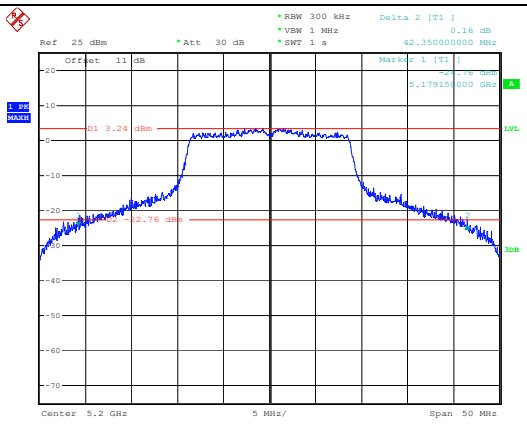
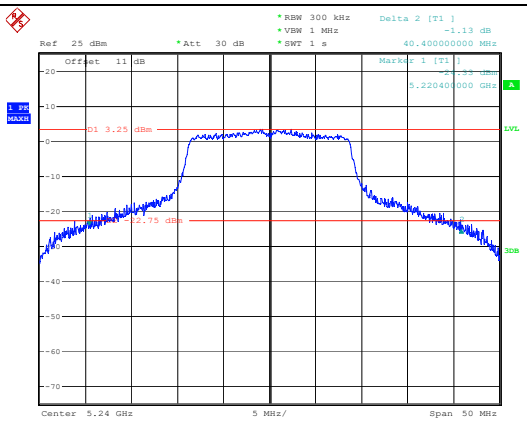
5725-5850 MHz:

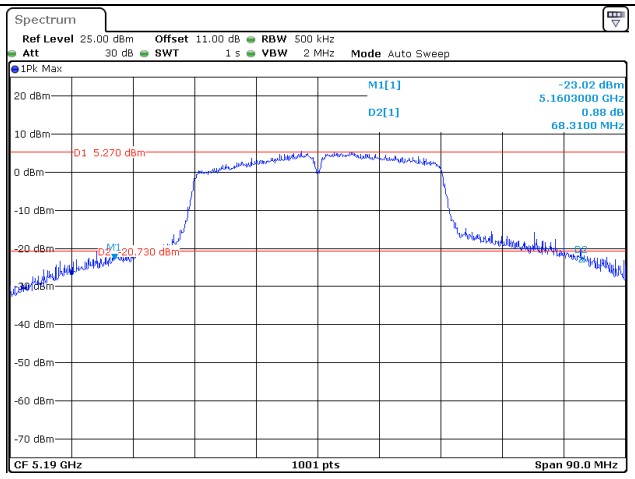
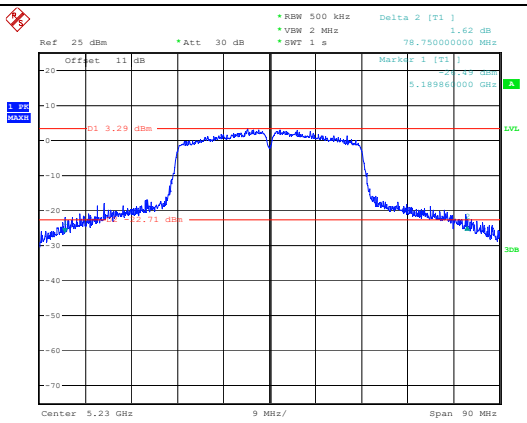
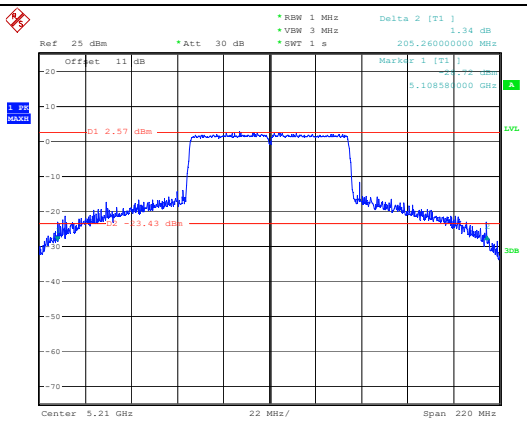
Test Modes	Test Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
802.11a	5745	16.52	17.12
	5785	16.56	17.16
	5825	16.64	17.20
802.11ac vht20	5745	17.88	18.32
	5785	17.84	18.32
	5825	17.84	18.32
802.11ac vht40	5755	36.48	36.40
	5795	36.24	36.32
802.11ac vht80	5775	76.80	75.84
802.11ax hew20 (242Tone_RU61)	5745	19.16	19.32
	5785	19.16	19.32
	5825	19.20	19.36
802.11ax hew40 (484Tone_RU65)	5755	37.92	37.60
	5795	37.60	37.52
802.11ax hew80 (996Tone_RU67)	5775	78.48	77.44

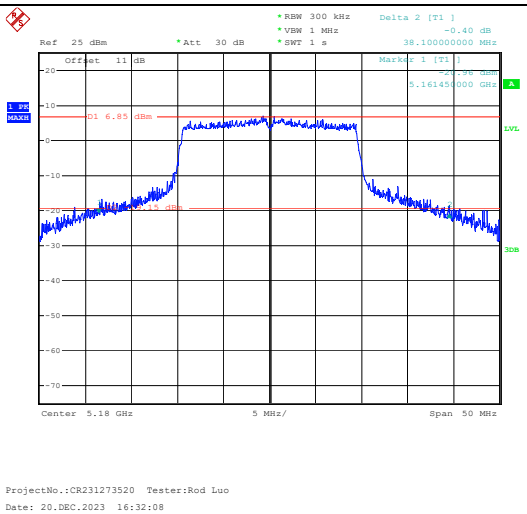
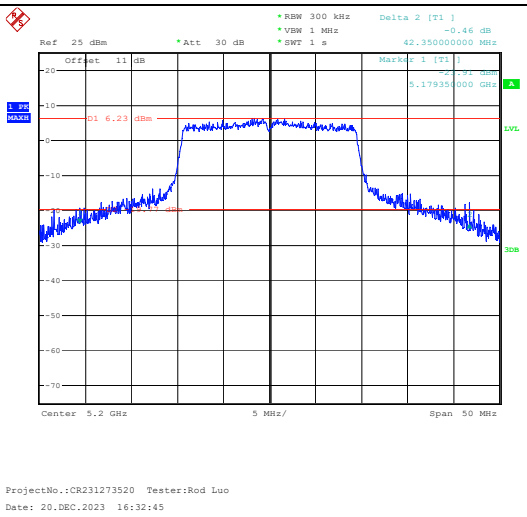
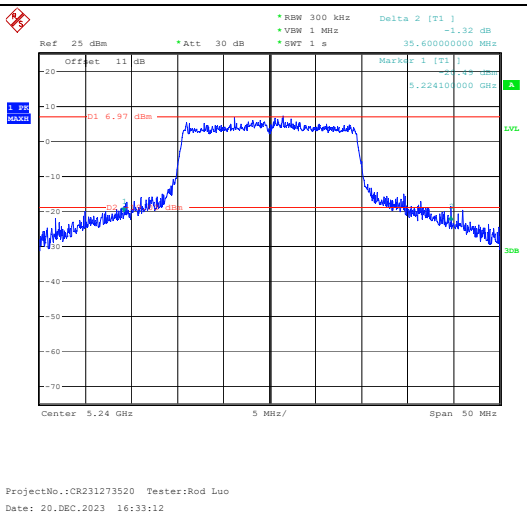
Note:
Test only was performed at Chain 0.
6dB Emission Bandwidth Limit: ≥0.5 MHz
The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

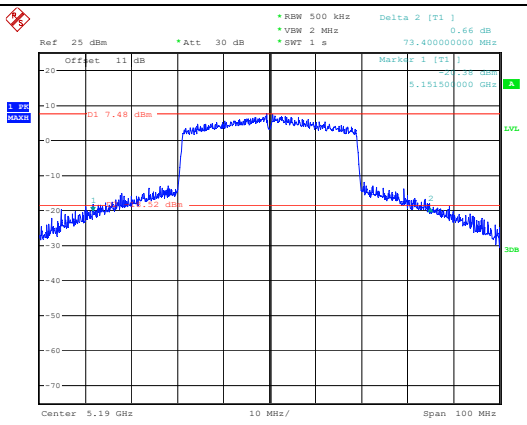
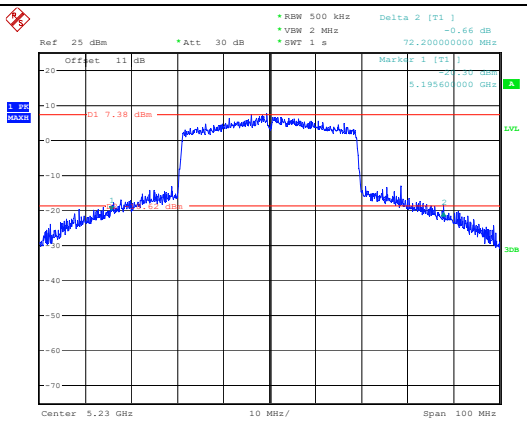
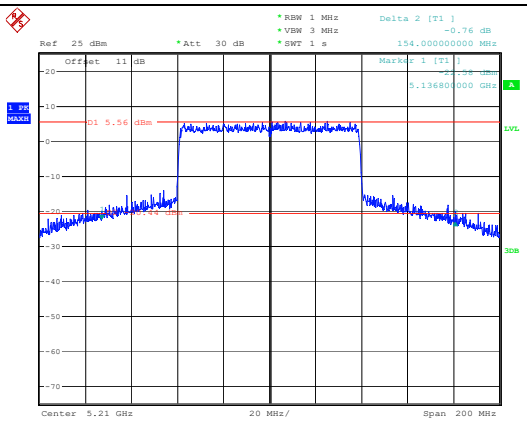
5150-5250MHz:

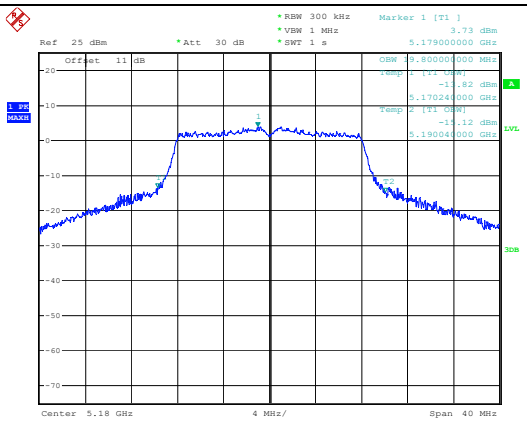
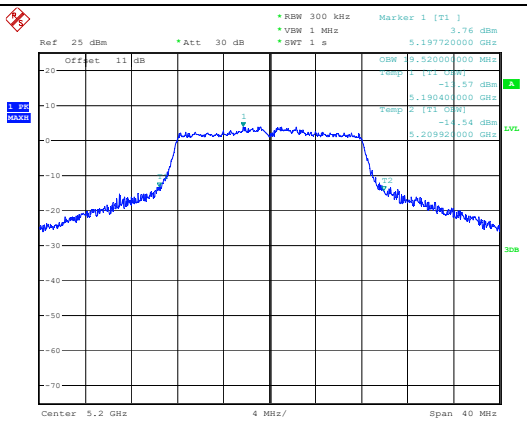
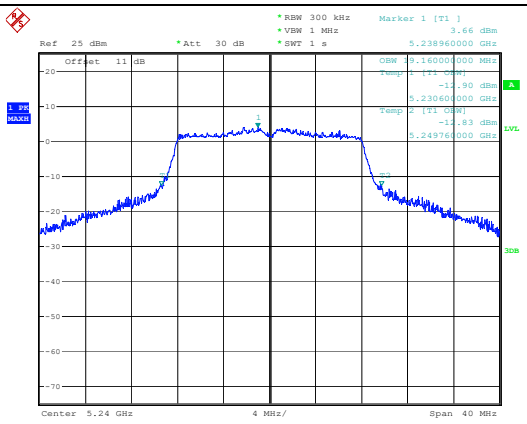
26dB Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

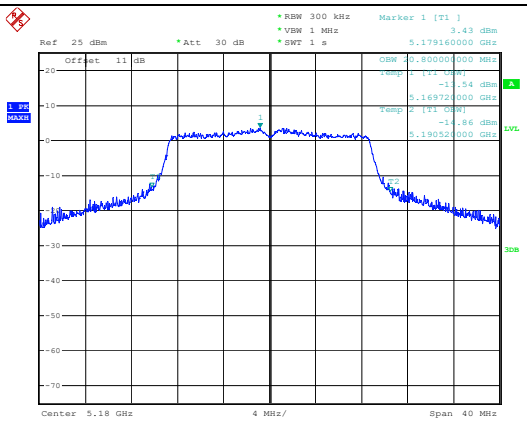
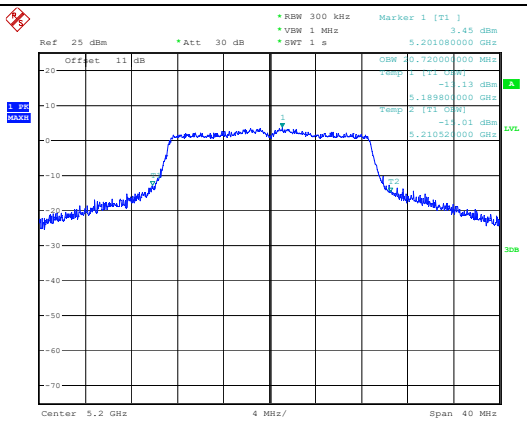
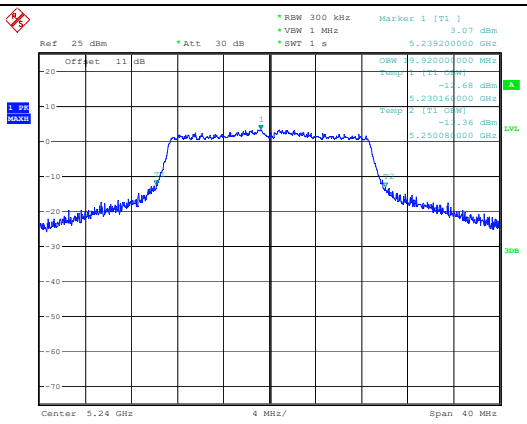
26dB Emission Bandwidth	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

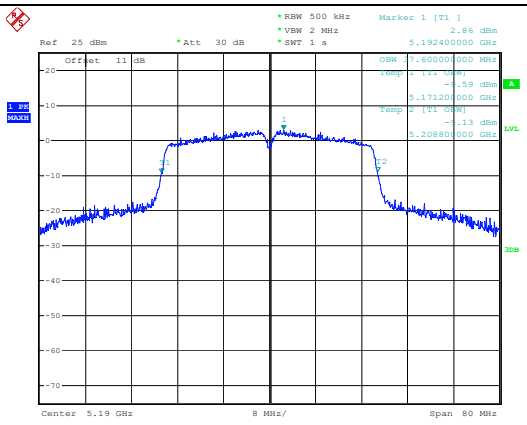
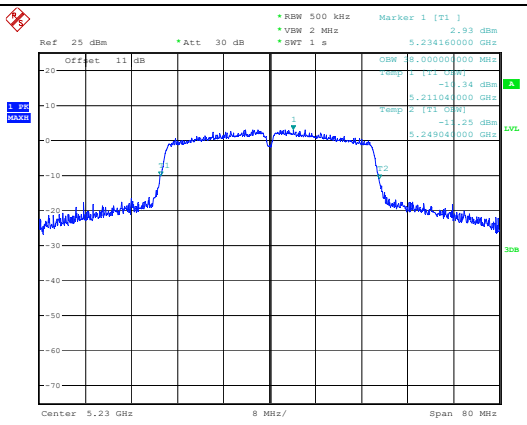
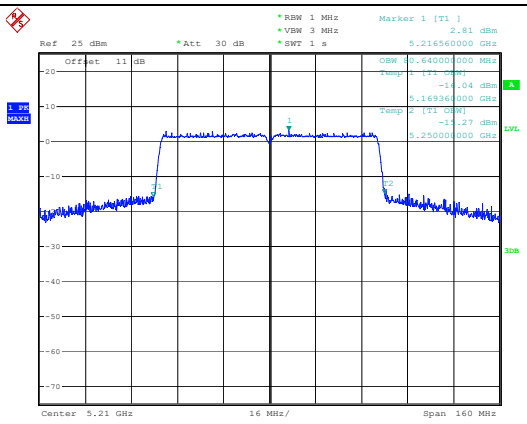
26dB Emission Bandwidth	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

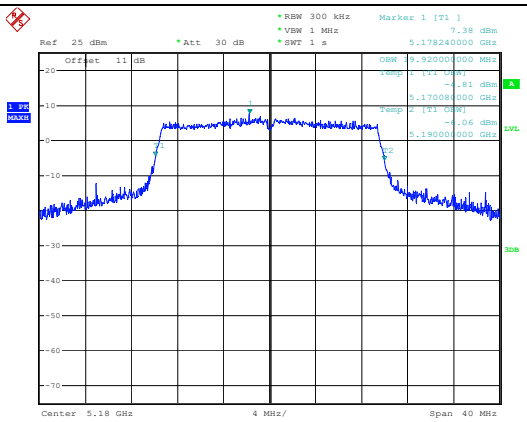
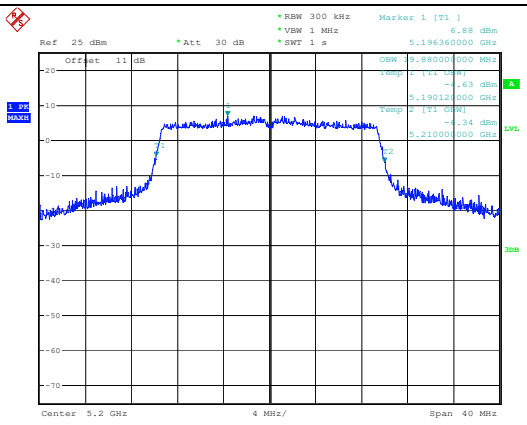
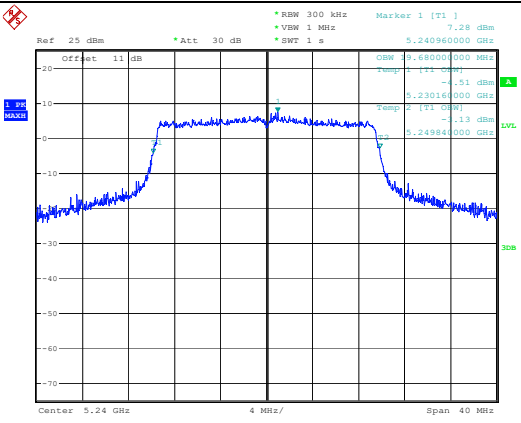
26dB Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

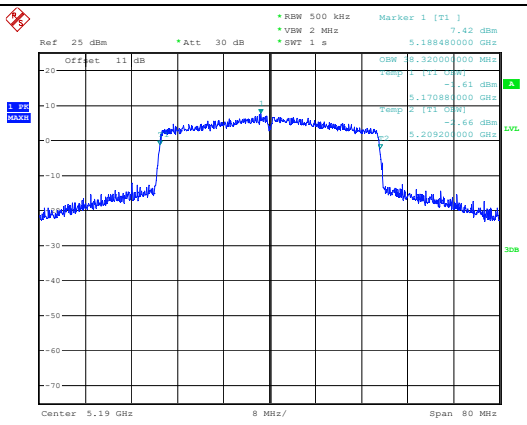
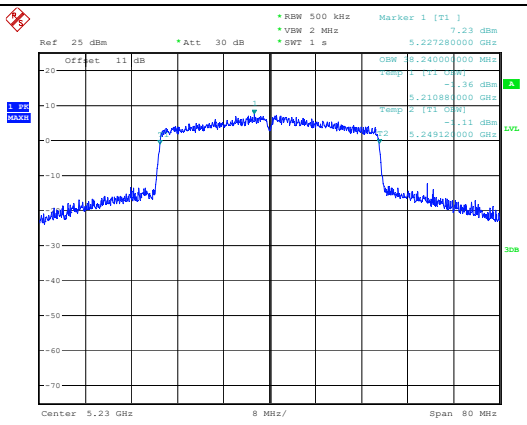
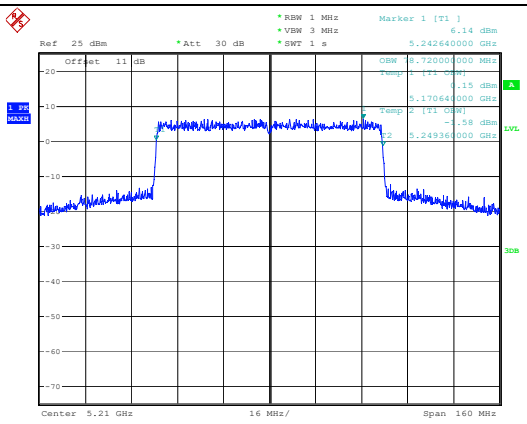
26dB Emission Bandwidth	
802.11 ax hew40 Lowest Channel	
802.11 ax hew40 Highest Channel	
802.11 ax hew80 Middle Channel	

99% Emission Bandwidth	
802.11a Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:25:56
802.11a Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:29:12
802.11a Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:32:01

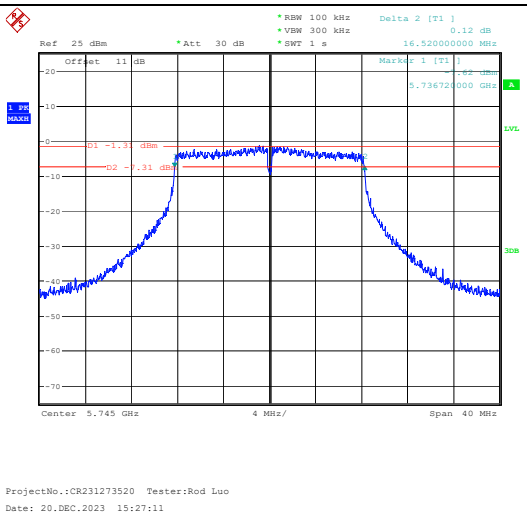
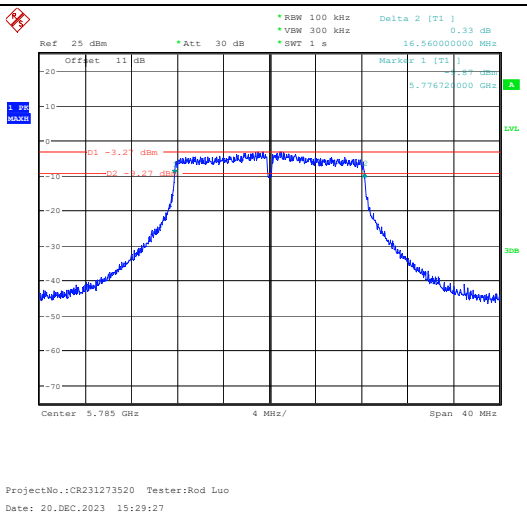
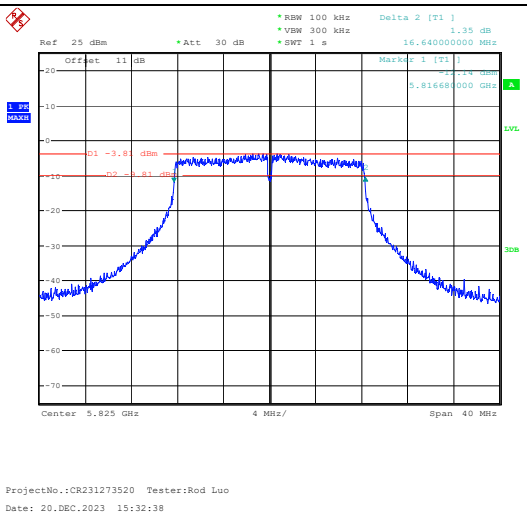
99% Emission Bandwidth	
802.11ac vht20 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:38:30
802.11ac vht20 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:41:43
802.11ac vht20 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:44:38

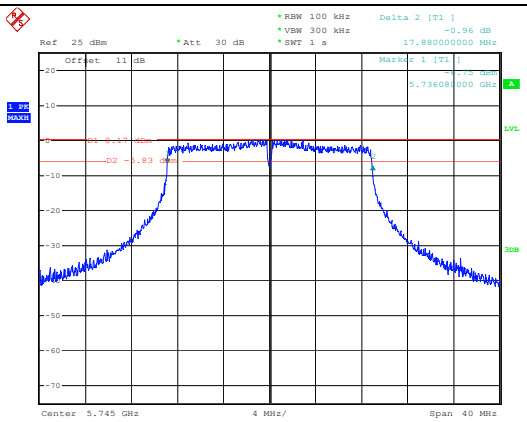
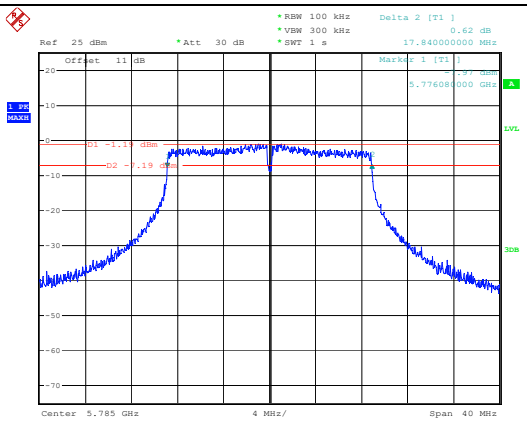
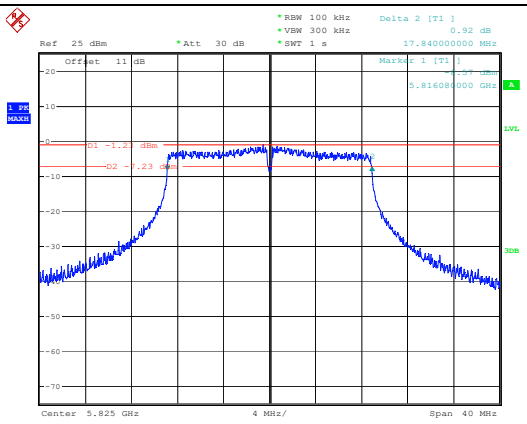
99% Emission Bandwidth	
802.11ac vht40 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:48:25
802.11ac vht40 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:50:31
802.11ac vht80 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:53:36

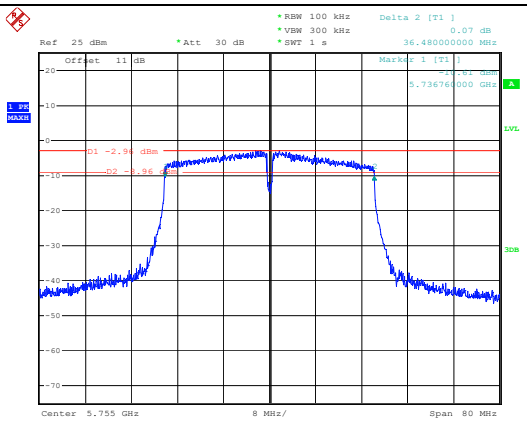
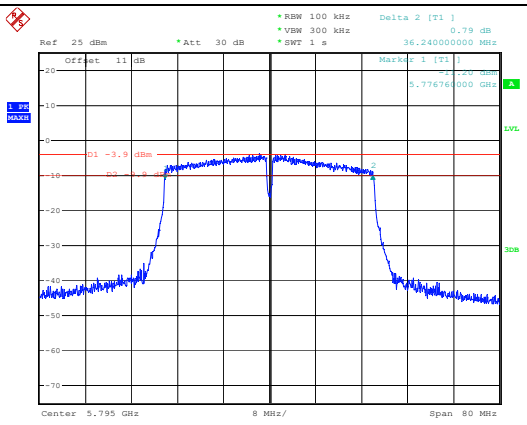
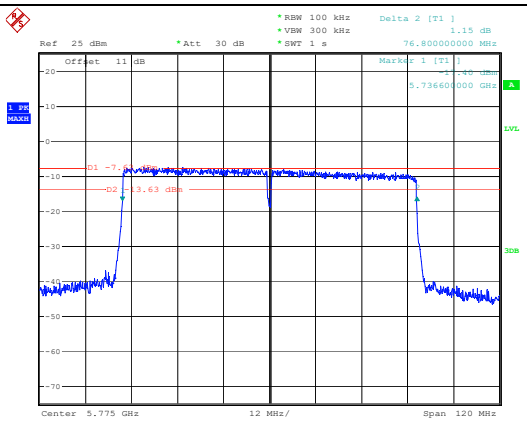
99% Emission Bandwidth	
802.11ax hew20 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:02:01
802.11ax hew20 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:07:09
802.11ax hew20 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:10:30

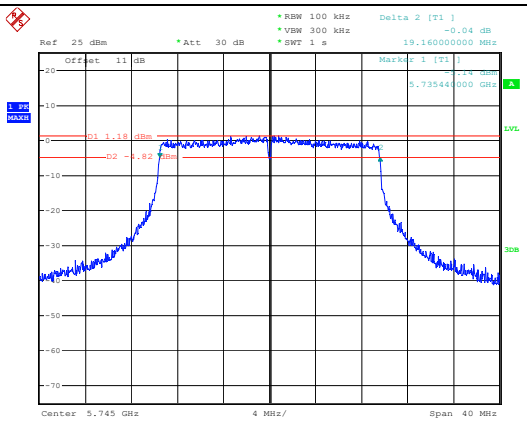
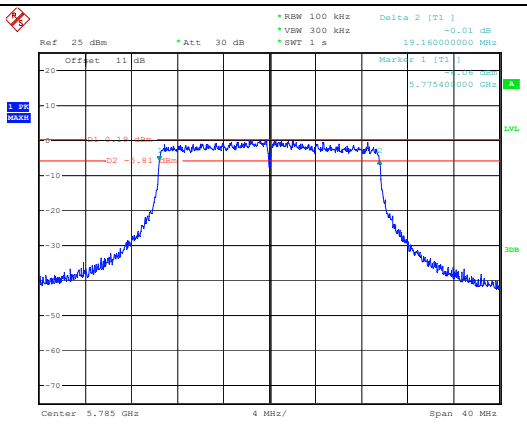
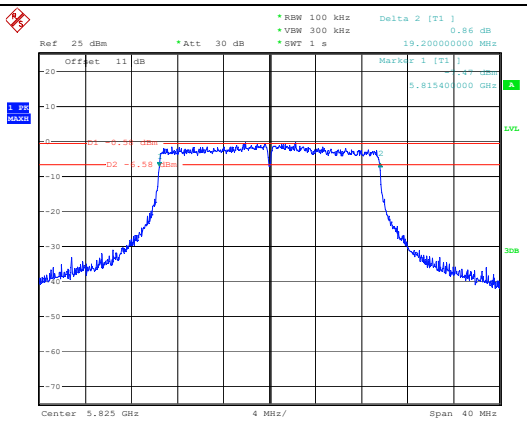
99% Emission Bandwidth	
802.11 ax hew40 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:17:19
802.11 ax hew40 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:19:24
802.11 ax hew80 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:22:04

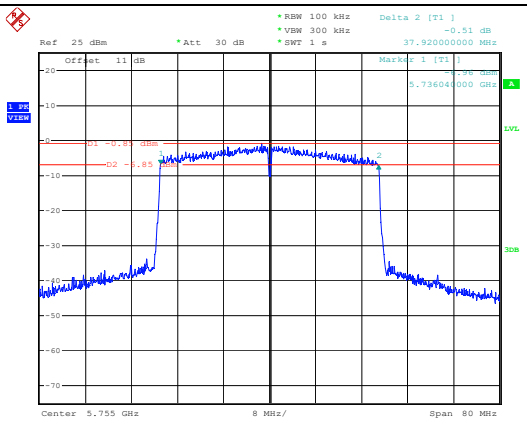
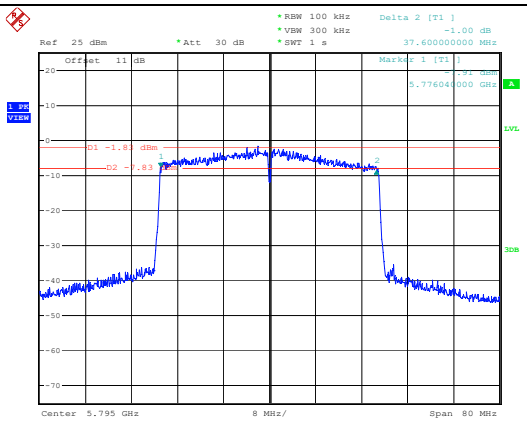
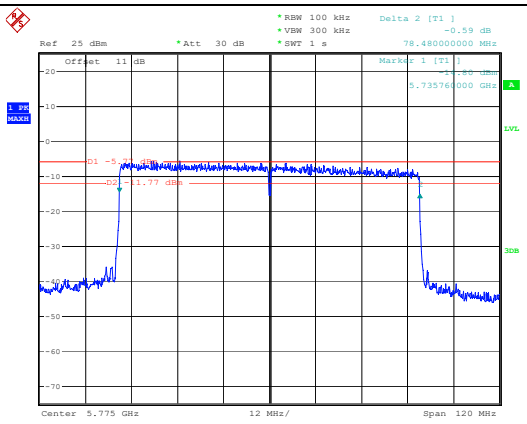
5725-5850MHz:

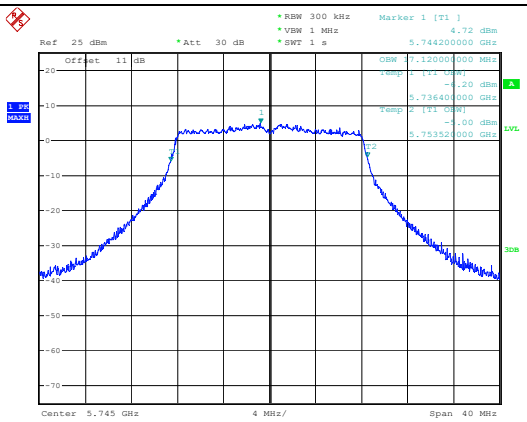
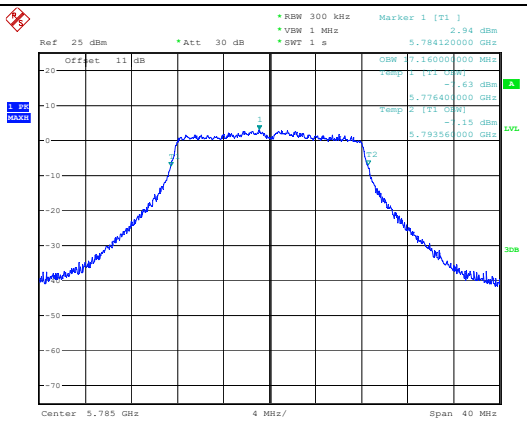
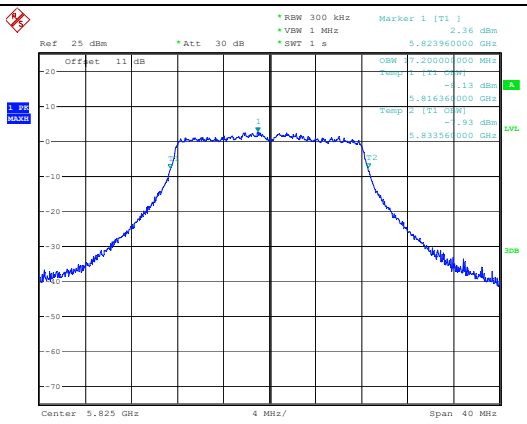
6dB Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

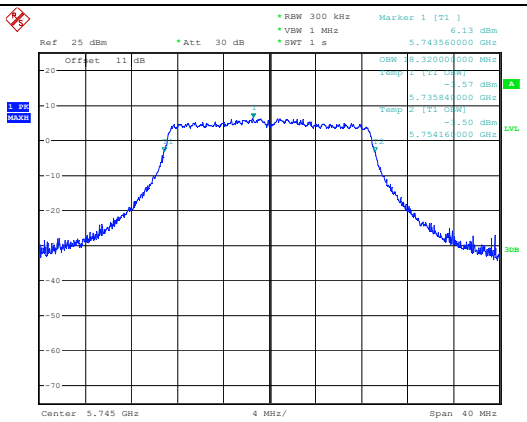
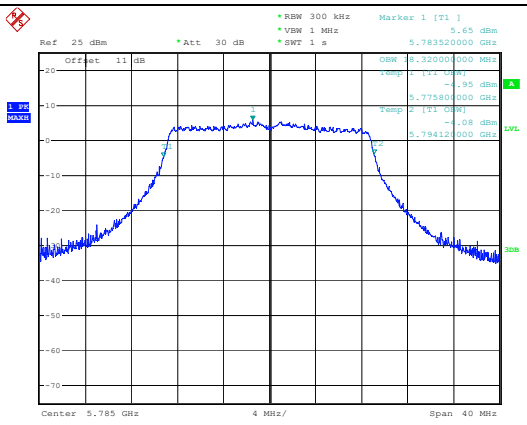
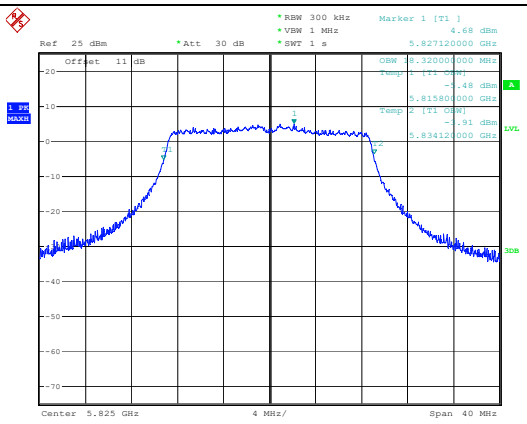
6dB Emission Bandwidth	
802.11ac vht20 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:36:57
802.11ac vht20 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:40:21
802.11ac vht20 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:44:17

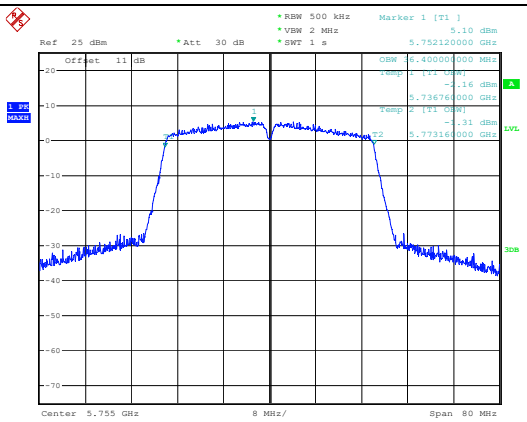
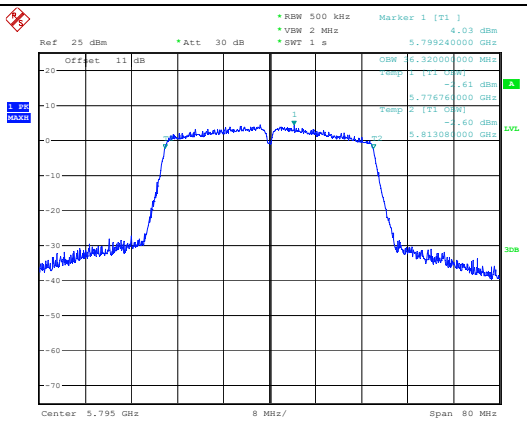
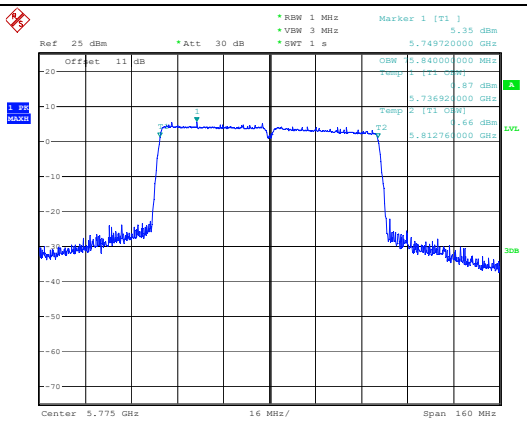
6dB Emission Bandwidth	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

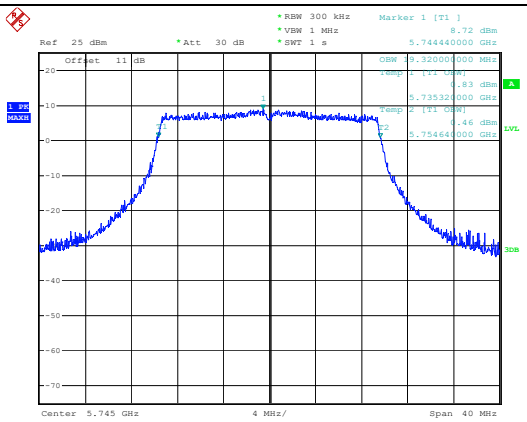
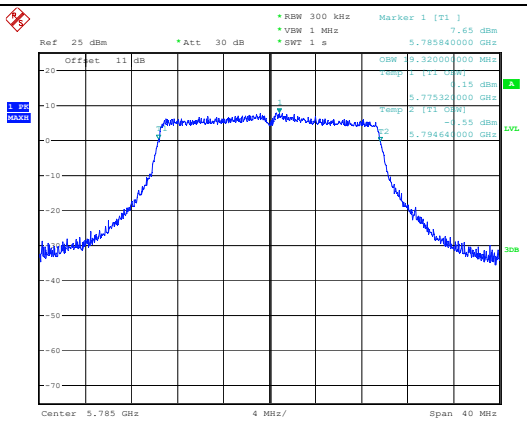
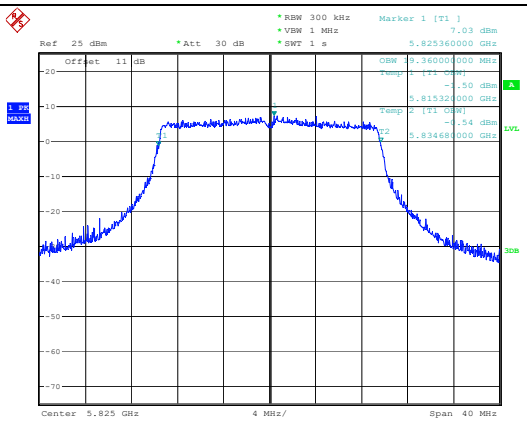
26dB Emission Bandwidth	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

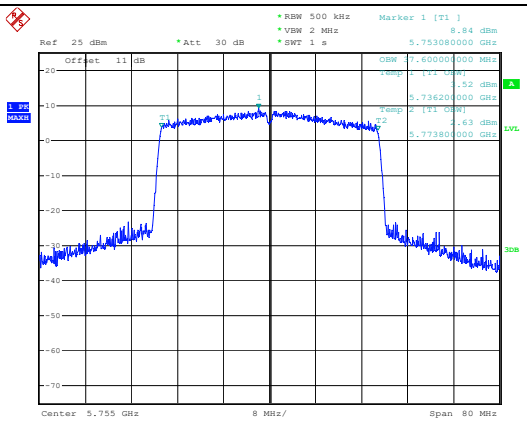
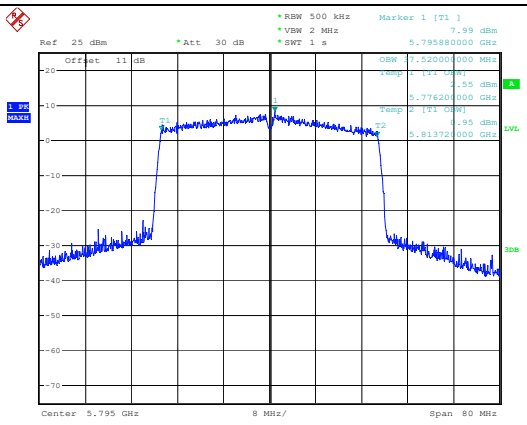
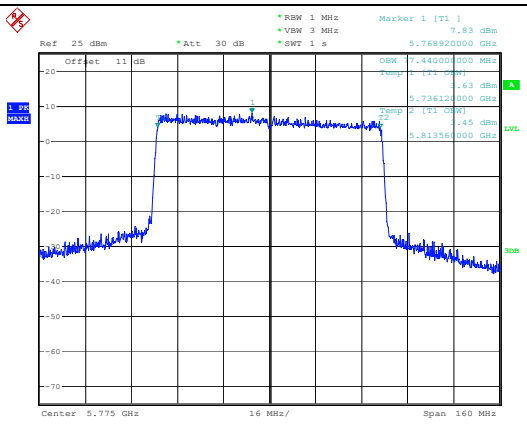
26dB Emission Bandwidth	
802.11 ax hew40 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 16:10:19
802.11 ax hew40 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 16:12:21
802.11 ax hew80 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 16:16:35

99% Emission Bandwidth	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

99% Emission Bandwidth	
802.11ac vht20 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:36:23
802.11ac vht20 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:39:59
802.11ac vht20 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:43:43

99% Emission Bandwidth	
802.11ac vht40 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:46:39
802.11ac vht40 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:51:36
802.11ac vht80 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:53:46

99% Emission Bandwidth	
802.11ax hew20 Lowest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 15:58:42
802.11ax hew20 Middle Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 16:03:39
802.11ax hew20 Highest Channel	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 16:06:31

99% Emission Bandwidth	
802.11 ax hew40 Lowest Channel	
802.11 ax hew40 Highest Channel	
802.11 ax hew80 Middle Channel	

4.4 Maximum Conducted Output Power:

Serial Number:	2EXR-1	Test Date:	2023/12/19-2023/12/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo, Len Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	23-27.5	Relative Humidity: (%)	37-52	ATM Pressure: (kPa)	101-101.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Power Meter	ML2495A	1106009	2023/8/4	2024/8/3
Anritsu	Pulse Power Sensor	MA2411A	10780	2023/8/4	2024/8/3
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

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

Test Data:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power (dBm)			
		Chain 0	Chain 1	Total	Limit
802.11a	5180	10.78	11.90	/	≤23.98
	5200	10.79	11.89	/	≤23.98
	5240	10.71	10.75	/	≤23.98
802.11ac vht20	5180	10.68	11.94	14.37	≤23.98
	5200	10.76	12.04	14.46	≤23.98
	5240	10.53	10.78	13.67	≤23.98
802.11ac vht40	5190	10.43	12.09	14.35	≤23.98
	5230	10.64	11.14	13.91	≤23.98
802.11ac vht80	5210	10.43	11.05	13.76	≤23.98
802.11ax hew20 (242Tone_RU61)	5180	11.76	11.97	14.88	≤23.98
	5200	11.82	12.08	14.96	≤23.98
	5240	11.52	10.95	14.25	≤23.98
802.11ax hew40 (484Tone_RU65)	5190	12.18	12.33	**15.27**	≤23.98
	5230	12.20	11.33	14.80	≤23.98
802.11ax hew80 (996Tone_RU67)	5210	11.77	11.62	14.71	≤23.98
Note: The device is a client device. The duty cycle factor has been calculated into the test data.The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$					
Antenna Gain:	-1.64	dBi	Directional gain:	-1.64	dBi

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Max. Conducted Average Output Power (dBm)			
		Chain 0	Chain 1	Total	Limit
802.11a	5745	11.66	12.79	/	≤30.00
	5785	11.77	13.20	/	≤30.00
	5825	12.05	13.37	/	≤30.00
802.11ac vht20	5745	13.50	13.06	16.30	≤30.00
	5785	12.49	13.23	15.89	≤30.00
	5825	11.83	13.29	15.63	≤30.00
802.11ac vht40	5755	12.99	13.23	16.12	≤30.00
	5795	11.86	13.17	15.57	≤30.00
802.11ac vht80	5775	12.50	12.85	15.69	≤30.00
802.11ax hew20 (242Tone_RU61)	5745	13.90	13.26	16.60	≤30.00
	5785	12.47	13.42	15.98	≤30.00
	5825	13.97	14.38	**17.19**	≤30.00
802.11ax hew40 (484Tone_RU65)	5755	13.63	13.59	16.62	≤30.00
	5795	12.30	13.30	15.84	≤30.00
802.11ax hew80 (996Tone_RU67)	5775	12.79	12.90	15.86	≤30.00
Note: The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices: Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$					
Antenna Gain:	-1.64	dBi	Directional gain:	-1.64	dBi

Partial RU:

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Average Power [dBm]	Limit [dBm]
11AX20MIMO	CH0	5180	26Tone	RU0	8.64	≤23.98
			52Tone	RU37	11.23	≤23.98
			106Tone	RU53	11.9	≤23.98
	CH1	5180	26Tone	RU0	8.67	≤23.98
			52Tone	RU37	11.25	≤23.98
			106Tone	RU53	11.87	≤23.98
	total	5180	26Tone	RU0	11.67	≤23.98
			52Tone	RU37	14.25	≤23.98
			106Tone	RU53	14.9	≤23.98
	CH0	5200	26Tone	RU0	8.43	≤23.98
			52Tone	RU37	10.56	≤23.98
			106Tone	RU53	11.47	≤23.98
	CH1	5200	26Tone	RU0	8.41	≤23.98
			52Tone	RU37	10.52	≤23.98
			106Tone	RU53	11.45	≤23.98
	total	5200	26Tone	RU0	11.43	≤23.98
			52Tone	RU37	13.55	≤23.98
			106Tone	RU53	14.47	≤23.98
	CH0	5240	26Tone	RU0	8.61	≤23.98
			52Tone	RU37	10.42	≤23.98
			106Tone	RU53	11.45	≤23.98
	CH1	5240	26Tone	RU0	8.59	≤23.98
			52Tone	RU37	10.38	≤23.98
			106Tone	RU53	11.43	≤23.98
	total	5240	26Tone	RU0	11.61	≤23.98
			52Tone	RU37	13.41	≤23.98
			106Tone	RU53	14.45	≤23.98
	CH0	5745	26Tone	RU0	15.77	≤30.00
			52Tone	RU37	15.13	≤30.00
			106Tone	RU53	14.35	≤30.00
	CH1	5745	26Tone	RU0	15.74	≤30.00
			52Tone	RU37	15.11	≤30.00
			106Tone	RU53	14.35	≤30.00
	total	5745	26Tone	RU0	**18.77**	≤30.00
			52Tone	RU37	18.13	≤30.00
			106Tone	RU53	17.36	≤30.00
	CH0	5785	26Tone	RU0	15.7	≤30.00
			52Tone	RU37	15.05	≤30.00
			106Tone	RU53	14.32	≤30.00
	CH1	5785	26Tone	RU0	15.67	≤30.00
			52Tone	RU37	15.03	≤30.00
			106Tone	RU53	14.3	≤30.00

	total	5785	26Tone	RU0	18.7	≤30.00
			52Tone	RU37	18.05	≤30.00
			106Tone	RU53	17.32	≤30.00
	CH0	5825	26Tone	RU0	15.55	≤30.00
			52Tone	RU37	14.99	≤30.00
			106Tone	RU53	14.3	≤30.00
	CH1	5825	26Tone	RU0	15.53	≤30.00
			52Tone	RU37	14.96	≤30.00
			106Tone	RU53	14.25	≤30.00
	total	5825	26Tone	RU0	18.55	≤30.00
			52Tone	RU37	17.99	≤30.00
			106Tone	RU53	17.29	≤30.00
11AX40MIMO	CH0	5190	26Tone	RU0	8.62	≤23.98
			52Tone	RU37	12.17	≤23.98
			106Tone	RU53	13.47	≤23.98
			242Tone	RU61	13.25	≤23.98
	CH1	5190	26Tone	RU0	8.62	≤23.98
			52Tone	RU37	12.16	≤23.98
			106Tone	RU53	13.43	≤23.98
			242Tone	RU61	13.21	≤23.98
	total	5190	26Tone	RU0	11.63	≤23.98
			52Tone	RU37	15.18	≤23.98
			106Tone	RU53	**16.46**	≤23.98
			242Tone	RU61	16.24	≤23.98
	CH0	5230	26Tone	RU0	8.03	≤23.98
			52Tone	RU37	11.56	≤23.98
			106Tone	RU53	13.28	≤23.98
			242Tone	RU61	13.1	≤23.98
	CH1	5230	26Tone	RU0	8	≤23.98
			52Tone	RU37	11.54	≤23.98
			106Tone	RU53	13.25	≤23.98
			242Tone	RU61	13.03	≤23.98
	total	5230	26Tone	RU0	11.03	≤23.98
			52Tone	RU37	14.56	≤23.98
			106Tone	RU53	16.28	≤23.98
			242Tone	RU61	16.08	≤23.98
	CH0	5755	26Tone	RU0	13.95	≤30.00
			52Tone	RU37	14.47	≤30.00
			106Tone	RU53	13.64	≤30.00
			242Tone	RU61	12.65	≤30.00
	CH1	5755	26Tone	RU0	13.92	≤30.00
			52Tone	RU37	14.43	≤30.00
			106Tone	RU53	13.59	≤30.00
			242Tone	RU61	12.6	≤30.00

	total	5755	26Tone	RU0	16.95	≤30.00
			52Tone	RU37	17.46	≤30.00
			106Tone	RU53	16.63	≤30.00
			242Tone	RU61	15.64	≤30.00
	CH0	5795	26Tone	RU0	12.88	≤30.00
			52Tone	RU37	12.6	≤30.00
			106Tone	RU53	12.42	≤30.00
			242Tone	RU61	12.27	≤30.00
	CH1	5795	26Tone	RU0	13.6	≤30.00
			52Tone	RU37	13.32	≤30.00
			106Tone	RU53	13.17	≤30.00
			242Tone	RU61	12.25	≤30.00
	total	5795	26Tone	RU0	16.27	≤30.00
			52Tone	RU37	15.99	≤30.00
			106Tone	RU53	15.82	≤30.00
			242Tone	RU61	15.27	≤30.00
11AX80MIMO	CH0	5210	26Tone	RU0	9.57	≤23.98
			52Tone	RU37	12.19	≤23.98
			106Tone	RU53	12.12	≤23.98
			242Tone	RU61	11.84	≤23.98
			484Tone	RU65	11.73	≤23.98
	CH1	5210	26Tone	RU0	9.54	≤23.98
			52Tone	RU37	12.15	≤23.98
			106Tone	RU53	12.09	≤23.98
			242Tone	RU61	11.81	≤23.98
			484Tone	RU65	11.66	≤23.98
	total	5210	26Tone	RU0	12.57	≤23.98
			52Tone	RU37	15.18	≤23.98
			106Tone	RU53	15.12	≤23.98
			242Tone	RU61	14.84	≤23.98
			484Tone	RU65	14.71	≤23.98
	CH0	5775	26Tone	RU0	13.45	≤30.00
			52Tone	RU37	13.25	≤30.00
			106Tone	RU53	13.12	≤30.00
			242Tone	RU61	12.85	≤30.00
			484Tone	RU65	12.84	≤30.00
	CH1	5775	26Tone	RU0	13.54	≤30.00
			52Tone	RU37	13.28	≤30.00
			106Tone	RU53	13.37	≤30.00
			242Tone	RU61	13.14	≤30.00
			484Tone	RU65	13.23	≤30.00
	total	5775	26Tone	RU0	16.51	≤30.00
			52Tone	RU37	16.28	≤30.00
			106Tone	RU53	16.26	≤30.00

			242Tone	RU61	16.01	≤30.00
			484Tone	RU65	16.05	≤30.00
Note: The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices: Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$						
Antenna Gain:	-1.64	dBi	Directional gain:		-1.64	dBi

4.5 Maximum power spectral density:

Serial Number:	2EXR-1	Test Date:	2023/12/20-2024/03/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo, Len Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	23-27.5	Relative Humidity: (%)	37-52	ATM Pressure: (kPa)	101-101.2

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	2023-04-18	2024-04-17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17

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

Test Data:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)			
		Chain 0	Chain 1	Total	Limit
802.11a	5180	0.25	1.42	/	≤11.00
	5200	0.19	1.36	/	≤11.00
	5240	0.22	0.24	/	≤11.00
802.11ac vht20	5180	-0.15	1.12	3.54	≤11.00
	5200	-0.06	1.29	3.68	≤11.00
	5240	-0.28	-0.04	2.85	≤11.00
802.11ac vht40	5190	-2.88	-1.08	1.12	≤11.00
	5230	-2.66	-2	0.69	≤11.00
802.11ac vht80	5210	-7.36	-6.37	-3.83	≤11.00
802.11ax hew20 (242Tone_RU61)	5180	0.50	0.75	3.64	≤11.00
	5200	0.61	0.89	3.76	≤11.00
	5240	0.29	-0.24	3.04	≤11.00
802.11ax hew40 (484Tone_RU65)	5190	-1.23	-0.88	1.96	≤11.00
	5230	-1.25	-1.97	1.42	≤11.00
802.11ax hew80 (996Tone_RU67)	5210	-6.20	-5.87	-3.02	≤11.00

Note: The device is a client device.

Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01was used for PSD test.

The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:
Array Gain = 10 log(N_{ANT}/N_{SS}) dB = 10*log(2/1)=3

Antenna Gain:	-1.64	dBi	Directional gain:	1.36	dBi

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density (dBm/500kHz)			
		Chain 0	Chain 1	Total	Limit
802.11a	5745	-1.69	-0.56	/	≤30.00
	5785	-1.95	-0.14	/	≤30.00
	5825	-1.73	0.01	/	≤30.00
802.11ac vht20	5745	-0.14	-0.58	2.66	≤30.00
	5785	-1.17	-0.42	2.23	≤30.00
	5825	-1.87	-0.39	1.94	≤30.00
802.11ac vht40	5755	-3.26	-2.85	-0.04	≤30.00
	5795	-4.35	-2.87	-0.54	≤30.00
802.11ac vht80	5775	-7.93	-7.49	-4.69	≤30.00
802.11ax hew20 (242Tone_RU61)	5745	-0.20	-0.82	2.51	≤30.00
	5785	-1.61	-1.28	1.57	≤30.00
	5825	-1.57	0.27	2.46	≤30.00
802.11ax hew40 (484Tone_RU65)	5755	-2.70	-2.56	0.38	≤30.00
	5795	-4.01	-2.89	-0.40	≤30.00
802.11ax hew80 (996Tone_RU67)	5775	-7.58	-7.23	-4.39	≤30.00

Note:
Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01was used for PSD test.

The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:
Array Gain = 10 log(N_{ANT}/N_{SS}) dB = 10*log(2/1)=3

Antenna Gain:	-1.64	dBi	Directional gain:	1.36	dBi

Partial RU:

Test Mode	Antenna	Frequency[MHz]	Ru Size	Ru Index	Result [dBm/MHz]	Limit [dBm/MHz]
11AX20MIMO	CH0	5180	26Tone	RU0	5.93	≤11.00
			52Tone	RU37	6.01	≤11.00
			106Tone	RU53	4.34	≤11.00
	CH1	5180	26Tone	RU0	6	≤11.00
			52Tone	RU37	6.09	≤11.00
			106Tone	RU53	4.35	≤11.00
	total	5180	26Tone	RU0	8.98	≤11.00
			52Tone	RU37	9.06	≤11.00
			106Tone	RU53	7.36	≤11.00
	CH0	5200	26Tone	RU0	5.72	≤11.00
			52Tone	RU37	5.4	≤11.00
			106Tone	RU53	3.9	≤11.00
	CH1	5200	26Tone	RU0	5.63	≤11.00
			52Tone	RU37	5.37	≤11.00
			106Tone	RU53	3.93	≤11.00
	total	5200	26Tone	RU0	8.69	≤11.00
			52Tone	RU37	8.4	≤11.00
			106Tone	RU53	6.93	≤11.00
	CH0	5240	26Tone	RU0	5.95	≤11.00
			52Tone	RU37	5.18	≤11.00
			106Tone	RU53	3.99	≤11.00
	CH1	5240	26Tone	RU0	6.05	≤11.00
			52Tone	RU37	5.14	≤11.00
			106Tone	RU53	3.75	≤11.00
	total	5240	26Tone	RU0	9.01	≤11.00
			52Tone	RU37	8.17	≤11.00
			106Tone	RU53	6.88	≤11.00
	CH0	5745	26Tone	RU0	10.35	≤30.00
			52Tone	RU37	7.37	≤30.00
			106Tone	RU53	4.17	≤30.00
	CH1	5745	26Tone	RU0	10.38	≤30.00
			52Tone	RU37	7.24	≤30.00
			106Tone	RU53	4.21	≤30.00
	total	5745	26Tone	RU0	13.38	≤30.00
			52Tone	RU37	10.32	≤30.00
			106Tone	RU53	7.2	≤30.00
	CH0	5785	26Tone	RU0	10.47	≤30.00
			52Tone	RU37	7.22	≤30.00
			106Tone	RU53	4.04	≤30.00
	CH1	5785	26Tone	RU0	10.7	≤30.00
			52Tone	RU37	7.28	≤30.00

			106Tone	RU53	4.15	≤30.00
	total	5785	26Tone	RU0	13.6	≤30.00
			52Tone	RU37	10.26	≤30.00
			106Tone	RU53	7.11	≤30.00
	CH0	5825	26Tone	RU0	10.27	≤30.00
			52Tone	RU37	7.39	≤30.00
			106Tone	RU53	4.04	≤30.00
	CH1	5825	26Tone	RU0	10.25	≤30.00
			52Tone	RU37	7.11	≤30.00
			106Tone	RU53	4.01	≤30.00
	total	5825	26Tone	RU0	13.27	≤30.00
			52Tone	RU37	10.26	≤30.00
			106Tone	RU53	7.04	≤30.00
11AX40MIMO	CH0	5190	26Tone	RU0	5.9	≤11.00
			52Tone	RU37	6.7	≤11.00
			106Tone	RU53	5	≤11.00
			242Tone	RU61	1.41	≤11.00
	CH1	5190	26Tone	RU0	5.99	≤11.00
			52Tone	RU37	6.78	≤11.00
			106Tone	RU53	4.93	≤11.00
			242Tone	RU61	1.11	≤11.00
	total	5190	26Tone	RU0	8.96	≤11.00
			52Tone	RU37	9.75	≤11.00
			106Tone	RU53	7.98	≤11.00
			242Tone	RU61	4.27	≤11.00
	CH0	5230	26Tone	RU0	5.36	≤11.00
			52Tone	RU37	6.07	≤11.00
			106Tone	RU53	4.71	≤11.00
			242Tone	RU61	1.09	≤11.00
	CH1	5230	26Tone	RU0	5.4	≤11.00
			52Tone	RU37	5.99	≤11.00
			106Tone	RU53	4.81	≤11.00
			242Tone	RU61	1.16	≤11.00
	total	5230	26Tone	RU0	8.39	≤11.00
			52Tone	RU37	9.04	≤11.00
			106Tone	RU53	7.77	≤11.00
			242Tone	RU61	4.14	≤11.00
	CH0	5755	26Tone	RU0	8.52	≤30.00
			52Tone	RU37	6.18	≤30.00
			106Tone	RU53	2.54	≤30.00
			242Tone	RU61	-1.04	≤30.00
	CH1	5755	26Tone	RU0	8.39	≤30.00
			52Tone	RU37	6.25	≤30.00
			106Tone	RU53	2.6	≤30.00

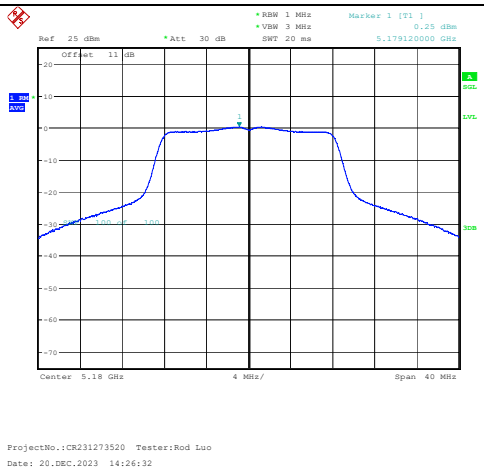
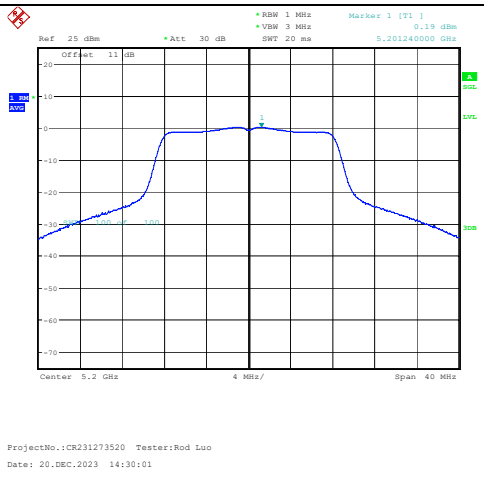
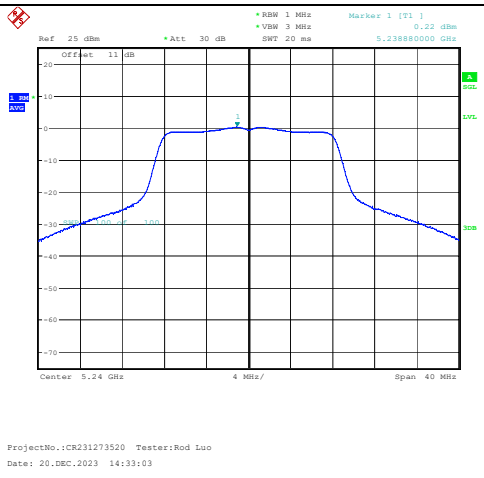
			242Tone	RU61	-1.33	≤30.00
	total	5755	26Tone	RU0	11.47	≤30.00
			52Tone	RU37	9.23	≤30.00
			106Tone	RU53	5.58	≤30.00
			242Tone	RU61	1.83	≤30.00
	CH0	5795	26Tone	RU0	7.38	≤30.00
			52Tone	RU37	4.2	≤30.00
			106Tone	RU53	0.98	≤30.00
			242Tone	RU61	-2.64	≤30.00
	CH1	5795	26Tone	RU0	8.16	≤30.00
			52Tone	RU37	4.98	≤30.00
			106Tone	RU53	1.87	≤30.00
			242Tone	RU61	-2.71	≤30.00
	total	5795	26Tone	RU0	10.8	≤30.00
			52Tone	RU37	7.62	≤30.00
			106Tone	RU53	4.46	≤30.00
			242Tone	RU61	0.34	≤30.00
11AX80MIMO	CH0	5210	26Tone	RU0	6.77	≤11.00
			52Tone	RU37	6.73	≤11.00
			106Tone	RU53	3.62	≤11.00
			242Tone	RU61	0.02	≤11.00
			484Tone	RU65	-2.91	≤11.00
	CH1	5210	26Tone	RU0	6.62	≤11.00
			52Tone	RU37	6.7	≤11.00
			106Tone	RU53	3.56	≤11.00
			242Tone	RU61	-0.09	≤11.00
			484Tone	RU65	-3.03	≤11.00
	total	5210	26Tone	RU0	9.71	≤11.00
			52Tone	RU37	9.73	≤11.00
			106Tone	RU53	6.6	≤11.00
			242Tone	RU61	2.98	≤11.00
			484Tone	RU65	0.04	≤11.00
	CH0	5775	26Tone	RU0	7.97	≤30.00
			52Tone	RU37	4.74	≤30.00
			106Tone	RU53	1.84	≤30.00
			242Tone	RU61	-2.11	≤30.00
			484Tone	RU65	-4.91	≤30.00
	CH1	5775	26Tone	RU0	7.94	≤30.00
			52Tone	RU37	4.71	≤30.00
			106Tone	RU53	1.79	≤30.00
			242Tone	RU61	-1.66	≤30.00
			484Tone	RU65	-4.49	≤30.00
	total	5775	26Tone	RU0	10.97	≤30.00
			52Tone	RU37	7.74	≤30.00

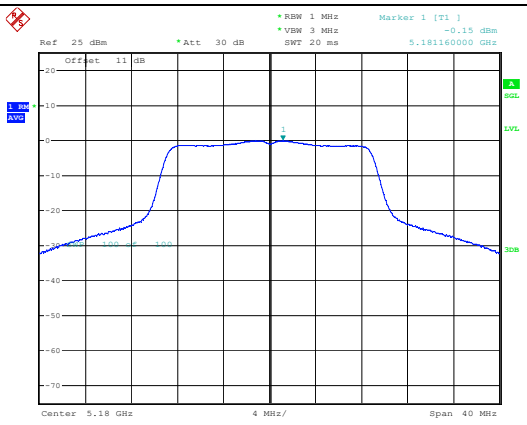
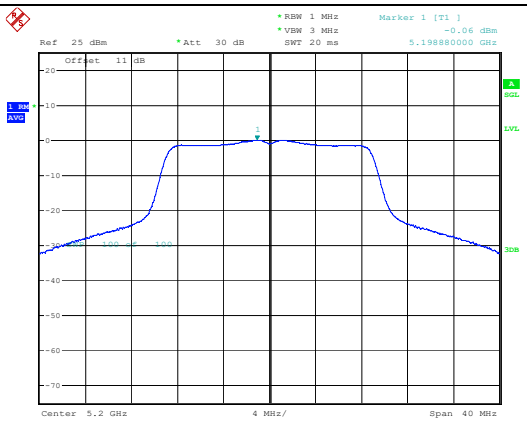
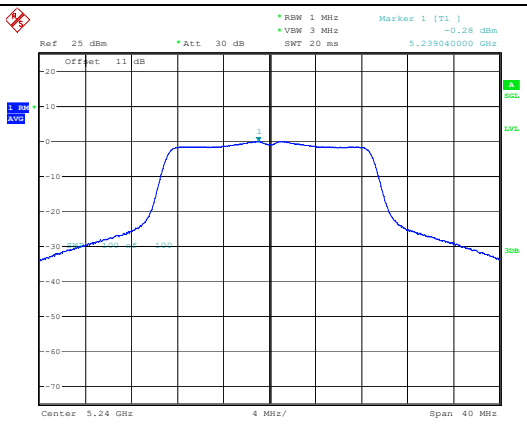
			106Tone	RU53	4.83	≤30.00
			242Tone	RU61	1.13	≤30.00
			484Tone	RU65	-1.68	≤30.00

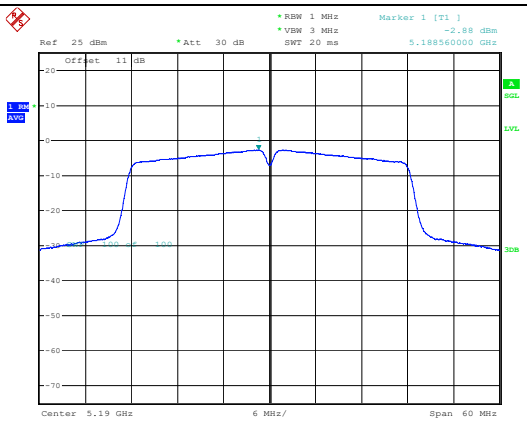
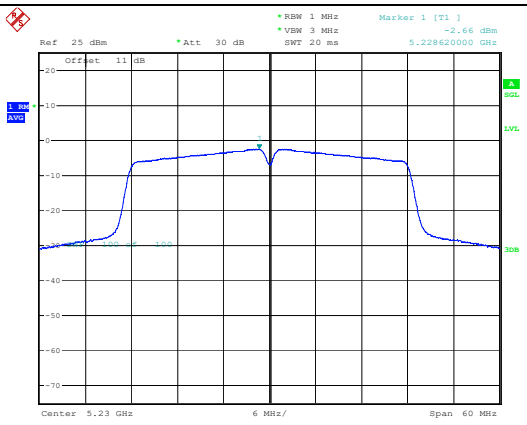
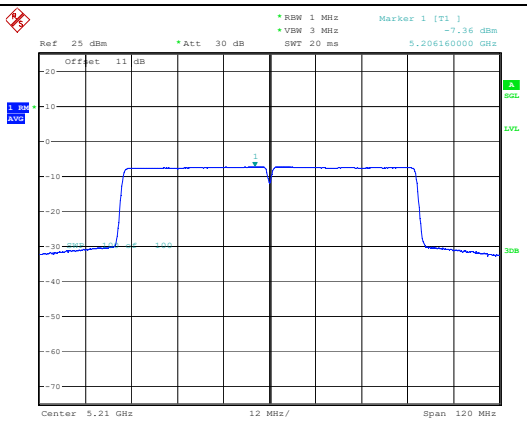
Note:
1. The device is a client device.
2. The Result and Limit Unit is dBm/500 kHz in the band 5.725-5.85GHz.
3. Test Plots of Partial RU power spectral density please refer Appendix A.
4. Method SA-1 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01was used for PSD test.
5. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:
Array Gain = 10 $\log(N_{ANT}/N_{SS})$ dB = 10*log(2/1)=3

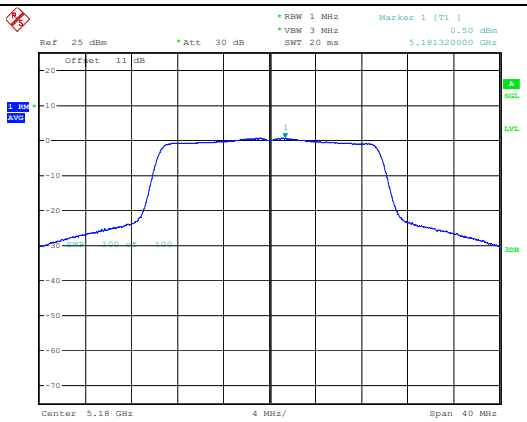
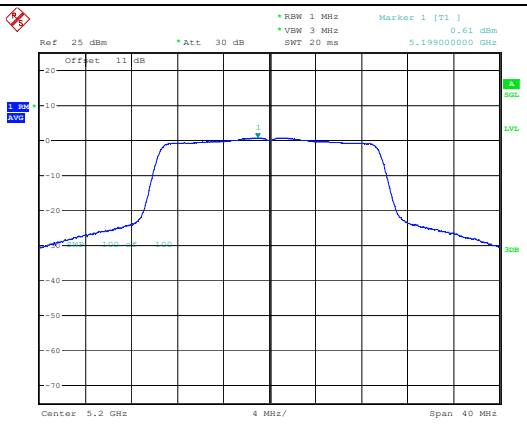
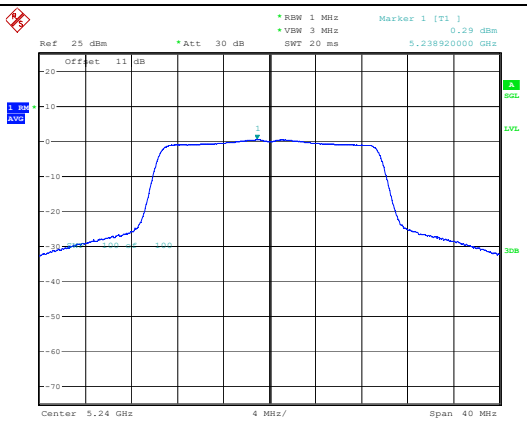
Antenna Gain:	-1.64	dBi	Directional gain:	1.36	dBi

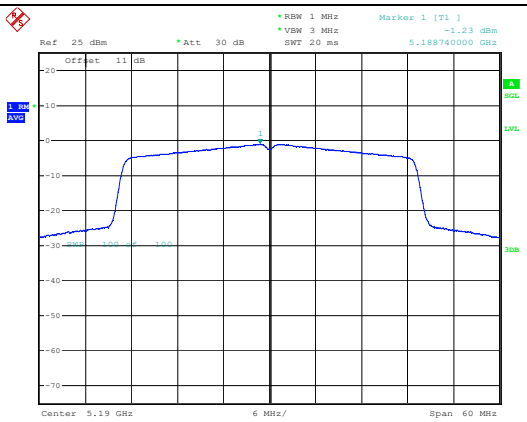
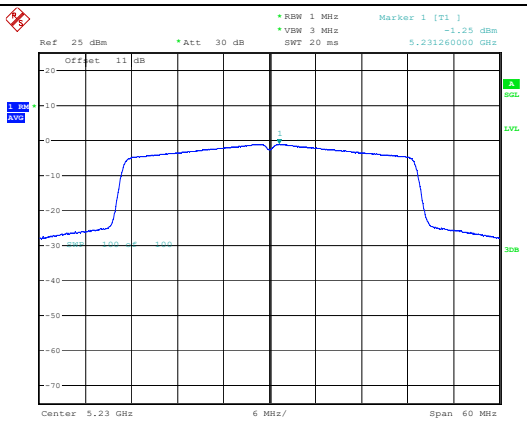
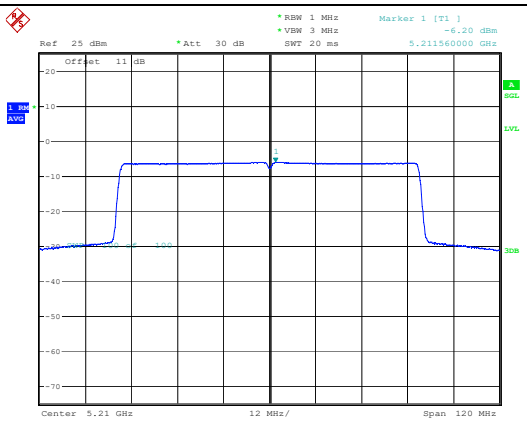
Chain 0
5150-5250MHz:

Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

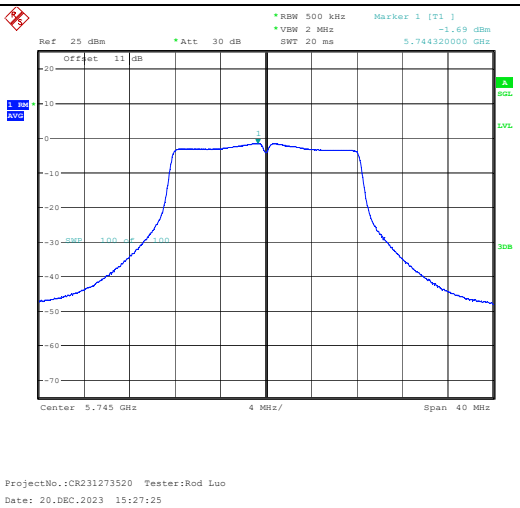
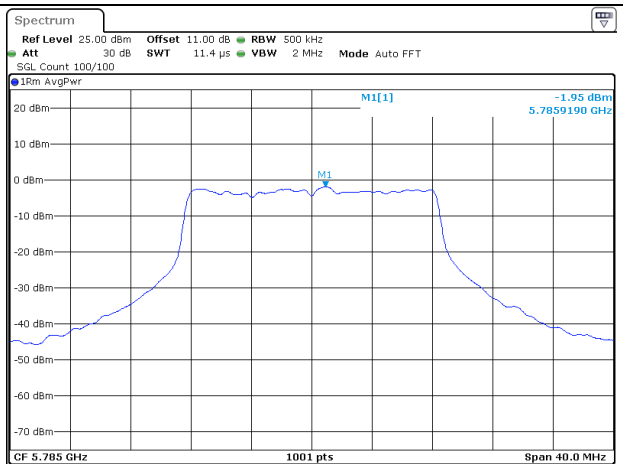
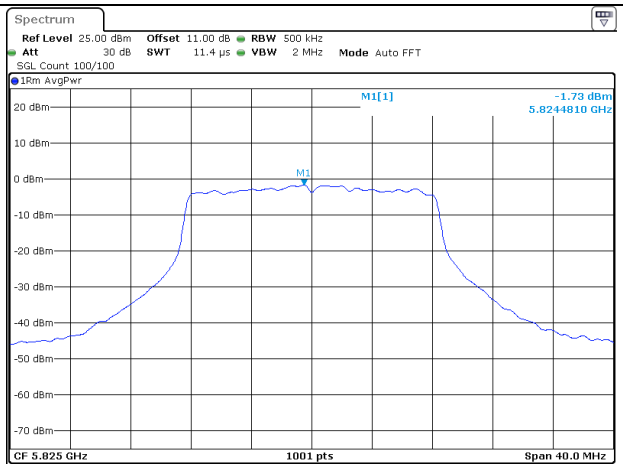
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

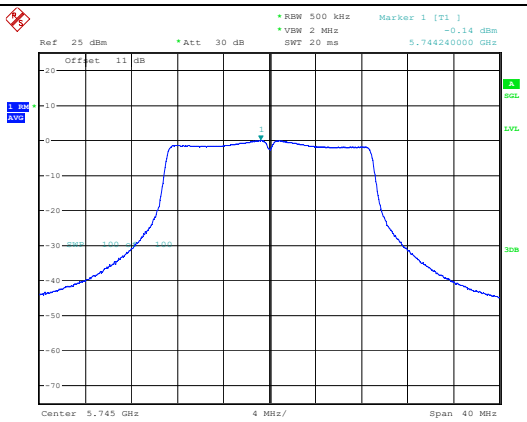
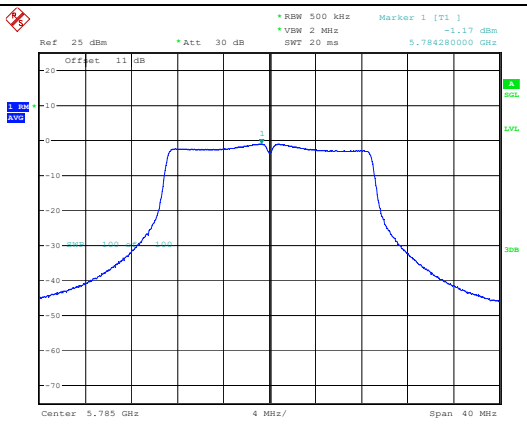
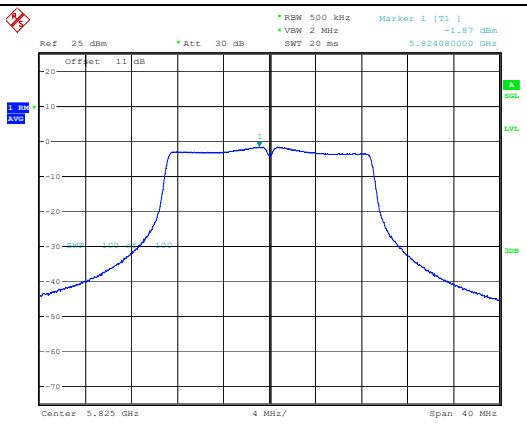
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

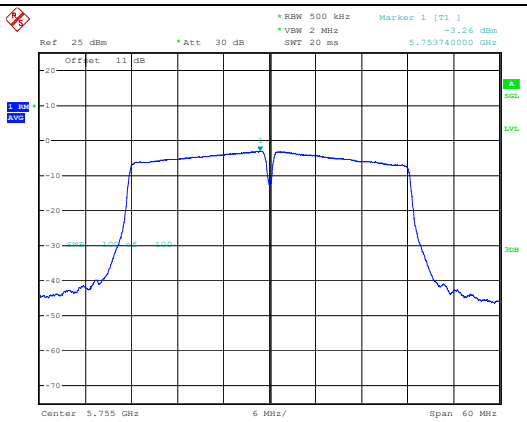
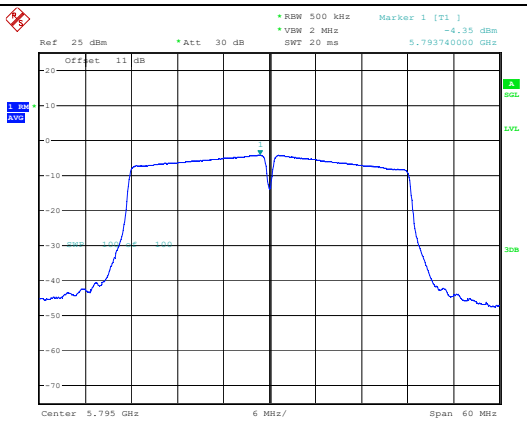
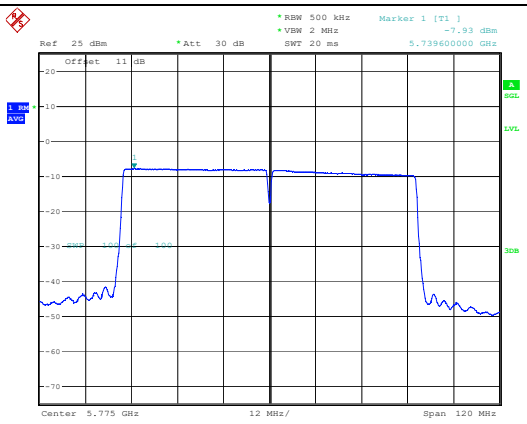
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

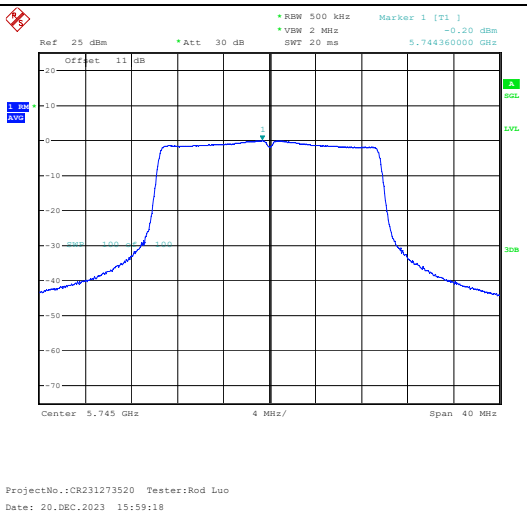
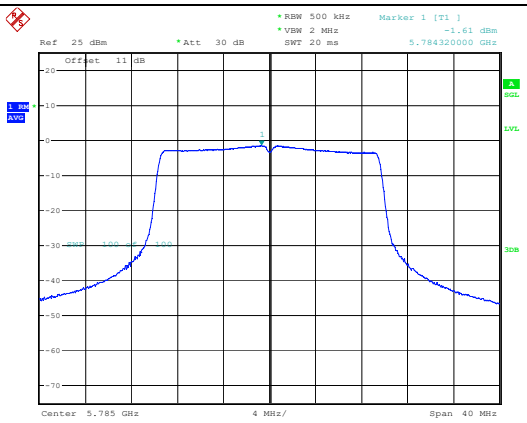
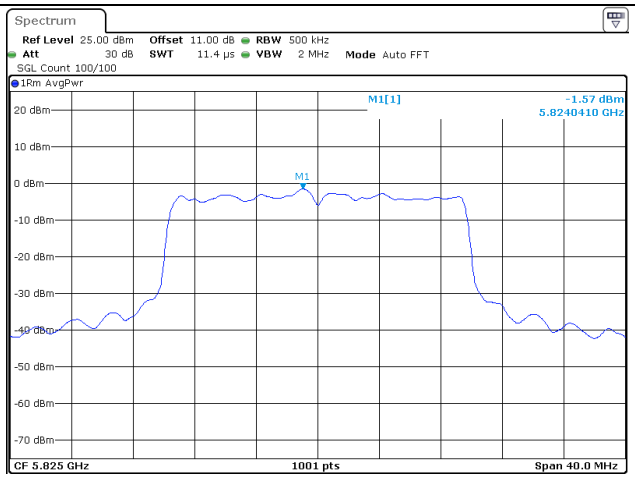
Maximum power spectral density	
802.11 ax hew40 Lowest Channel	
802.11 ax hew40 Highest Channel	
802.11 ax hew80 Middle Channel	

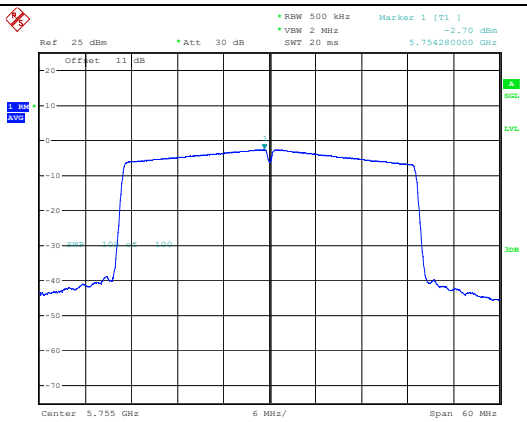
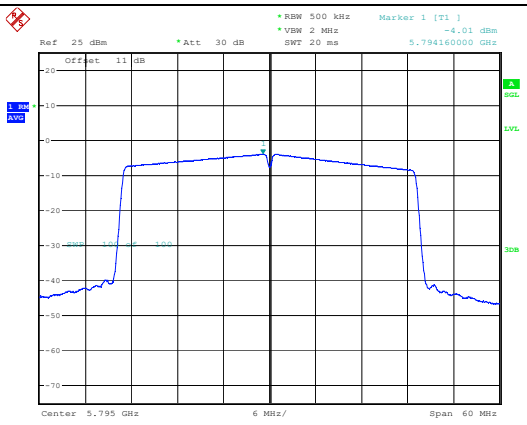
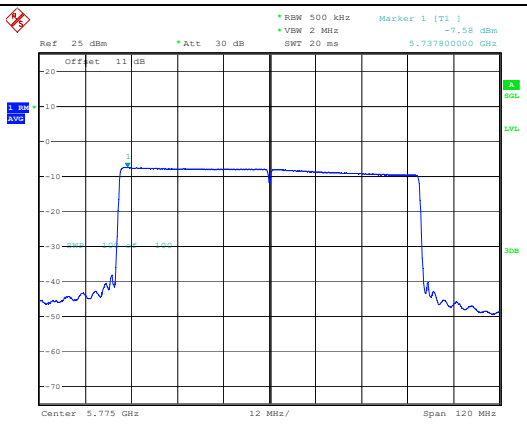
5725-5850MHz

Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

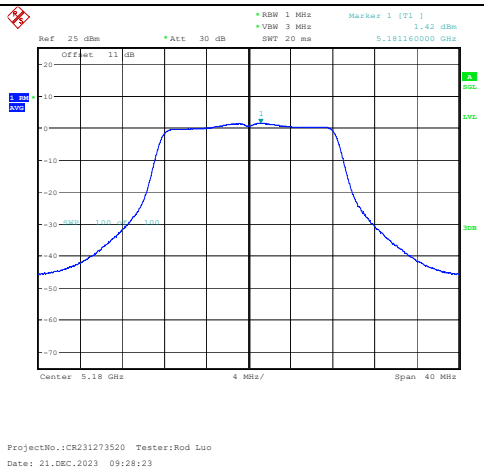
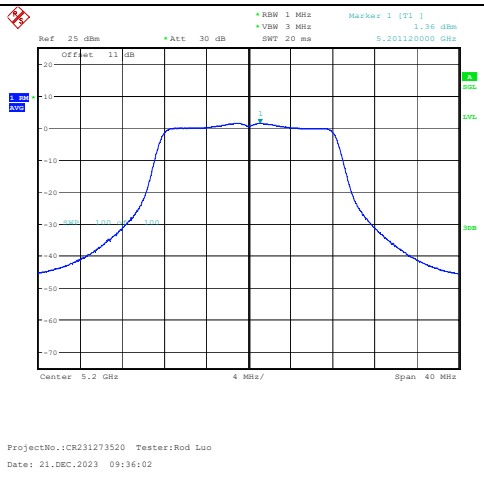
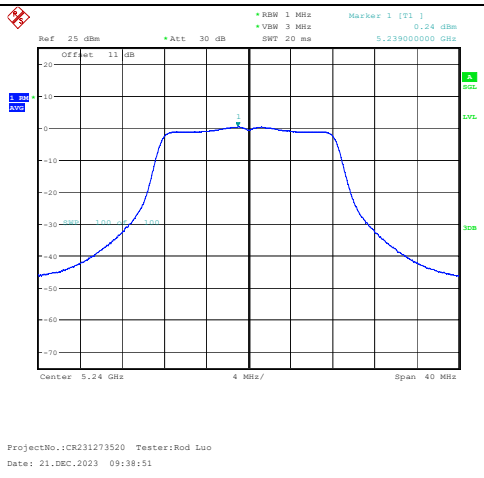
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

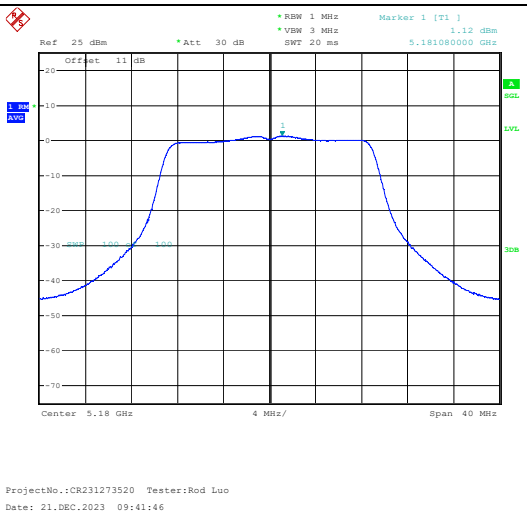
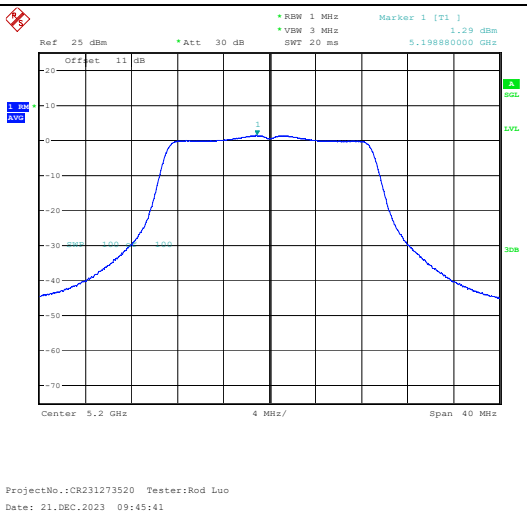
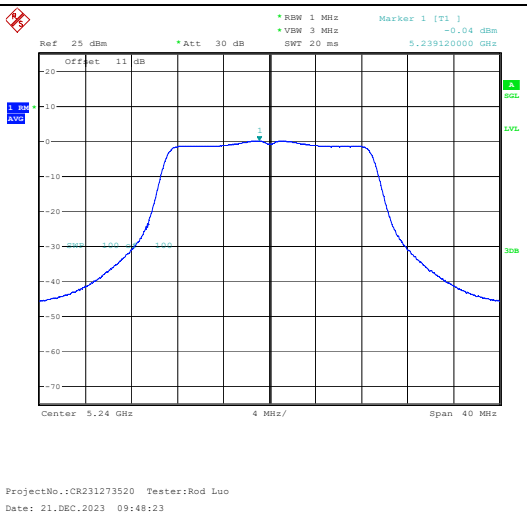
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

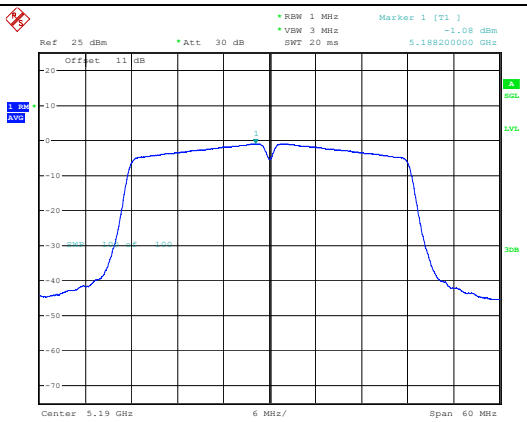
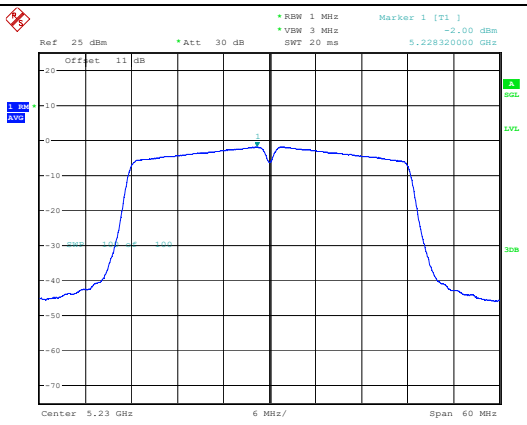
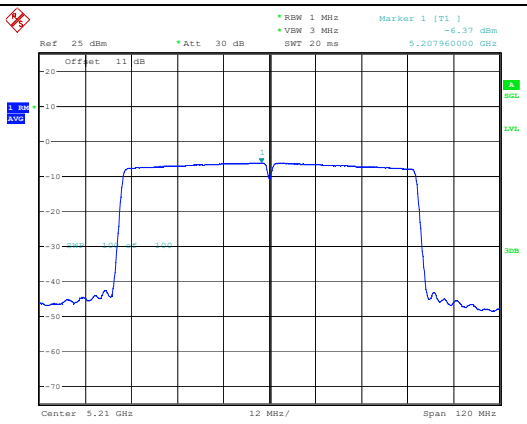
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

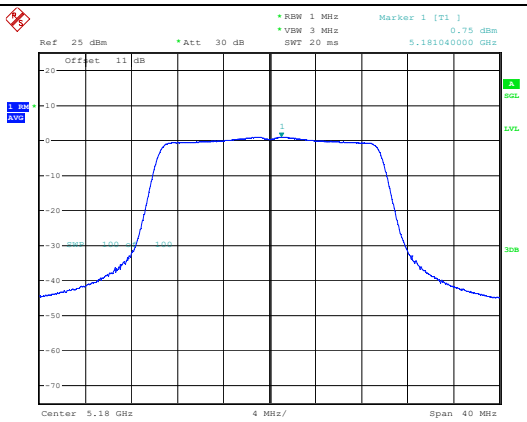
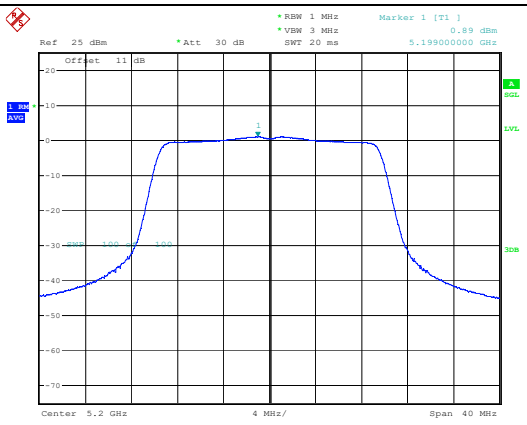
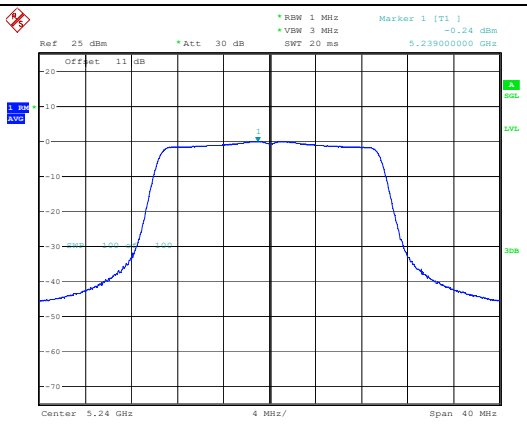
Maximum power spectral density	
802.11 ax hew40 Lowest Channel	
802.11 ax hew40 Highest Channel	
802.11 ax hew80 Middle Channel	

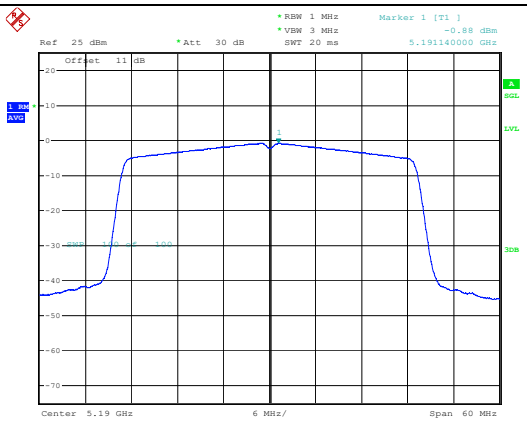
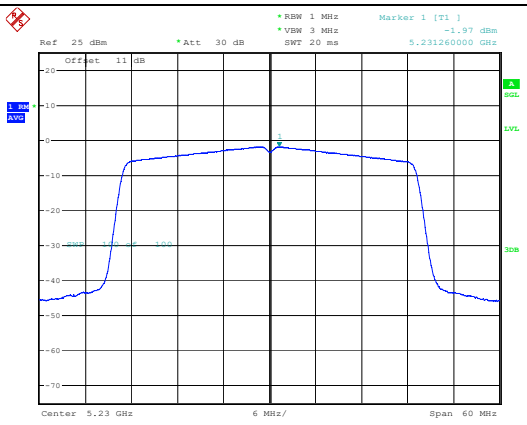
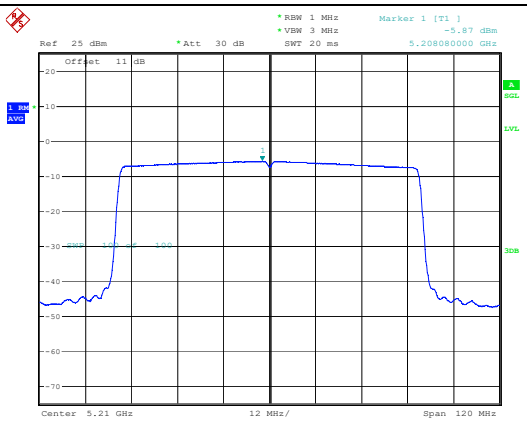
Chain 1
5150-5250MHz:

Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

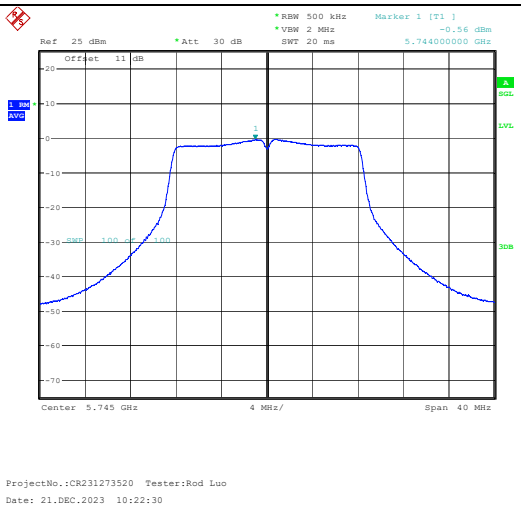
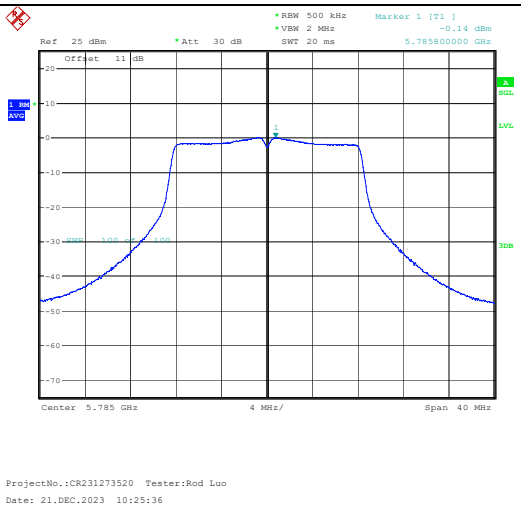
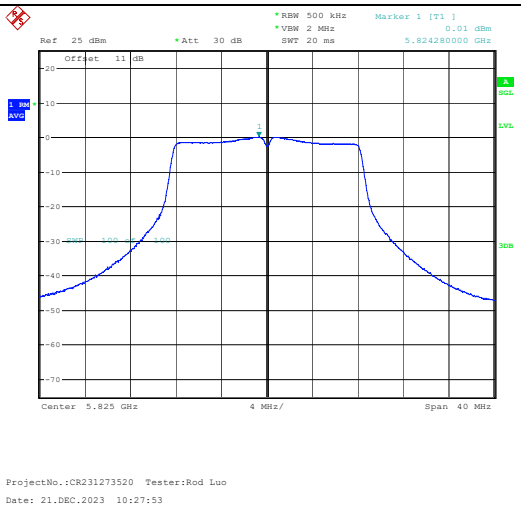
Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

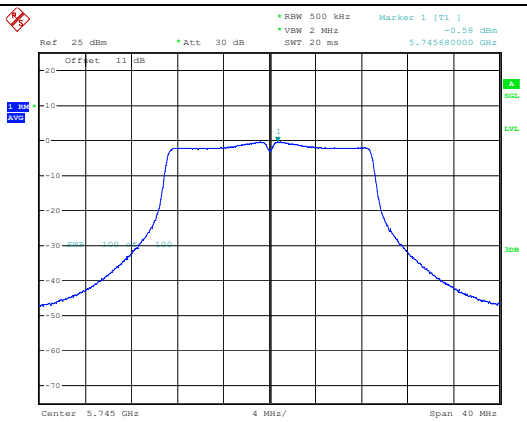
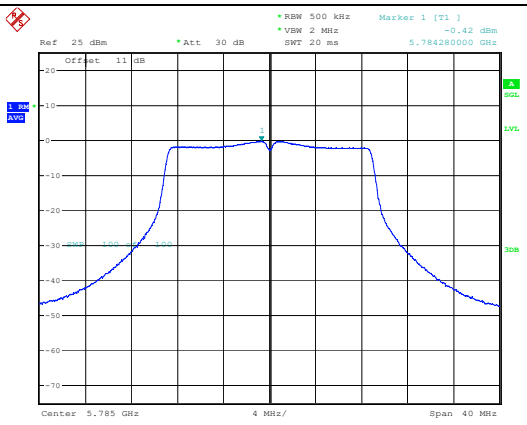
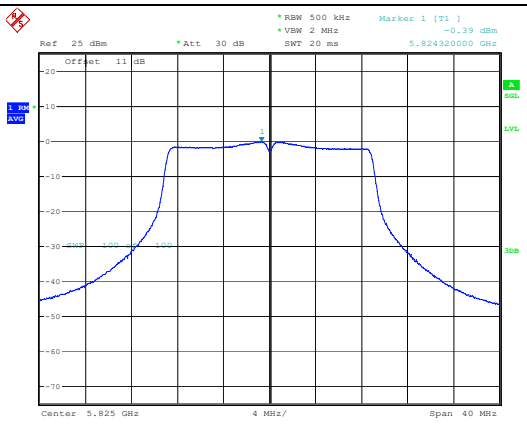
Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

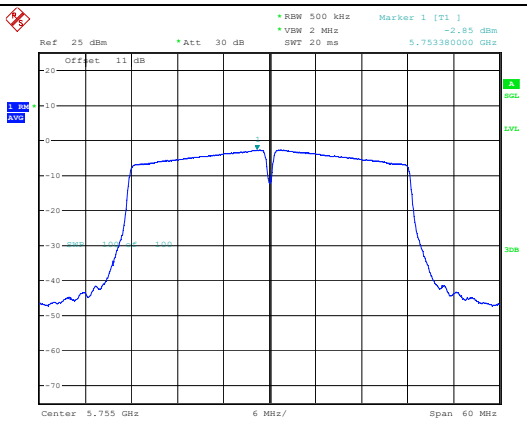
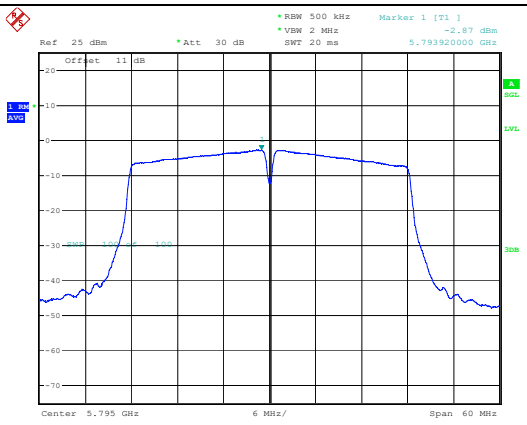
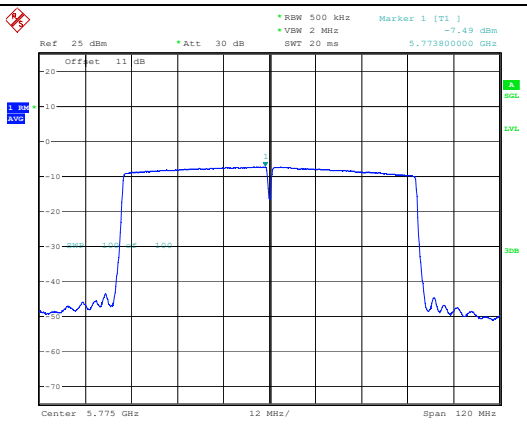
Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

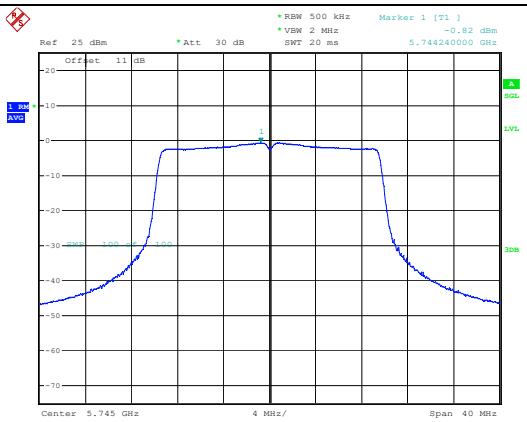
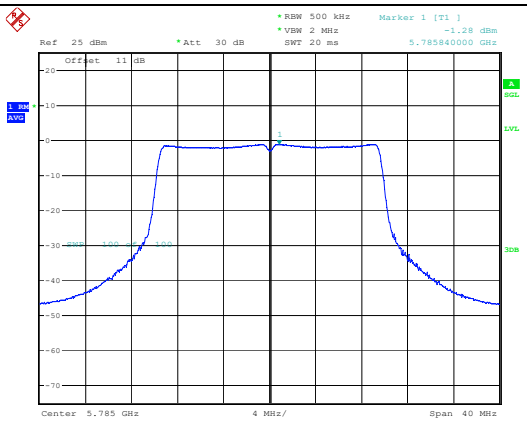
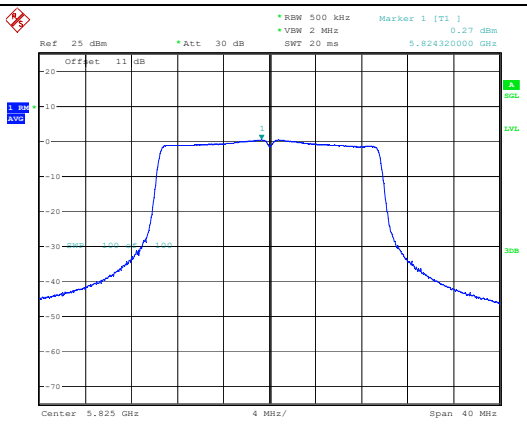
Maximum power spectral density	
802.11 ax hew40 Lowest Channel	
802.11 ax hew40 Highest Channel	
802.11 ax hew80 Middle Channel	

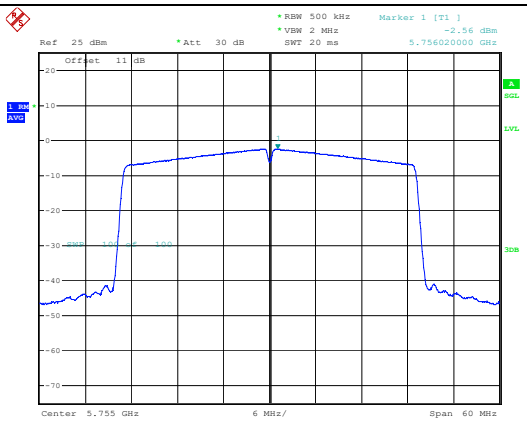
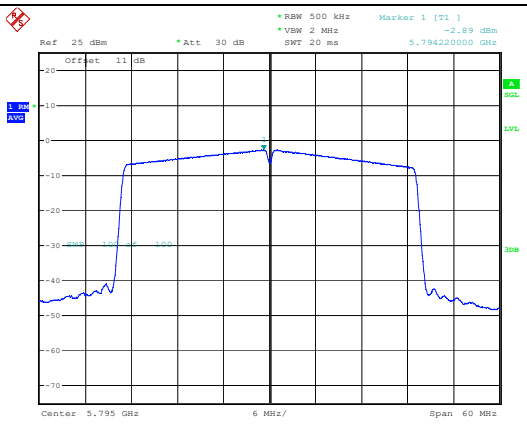
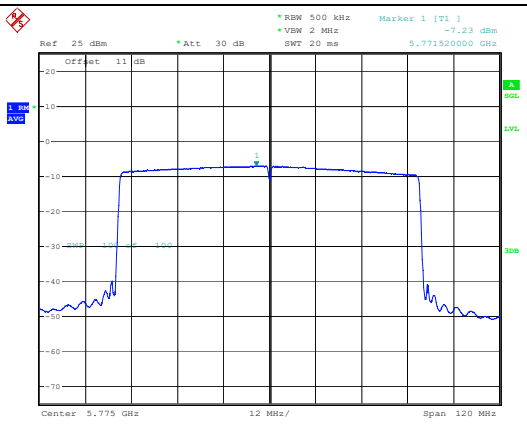
5725-5850MHz

Maximum power spectral density	
802.11a Lowest Channel	
802.11a Middle Channel	
802.11a Highest Channel	

Maximum power spectral density	
802.11ac vht20 Lowest Channel	
802.11ac vht20 Middle Channel	
802.11ac vht20 Highest Channel	

Maximum power spectral density	
802.11ac vht40 Lowest Channel	
802.11ac vht40 Highest Channel	
802.11ac vht80 Middle Channel	

Maximum power spectral density	
802.11ax hew20 Lowest Channel	
802.11ax hew20 Middle Channel	
802.11ax hew20 Highest Channel	

Maximum power spectral density	
802.11 ax hew40 Lowest Channel	
802.11 ax hew40 Highest Channel	
802.11 ax hew80 Middle Channel	

4.6 Duty Cycle:

Serial Number:	2EXR-1	Test Date:	2023/12/20-2023/12/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rod Luo	Test Result:	N/A

Environmental Conditions:					
Temperature: (℃)	23	Relative Humidity: (%)	37	ATM Pressure: (kPa)	101

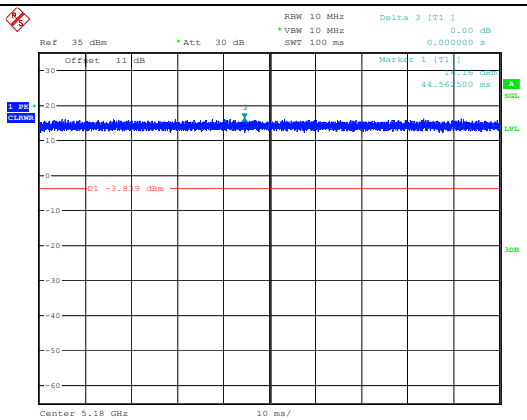
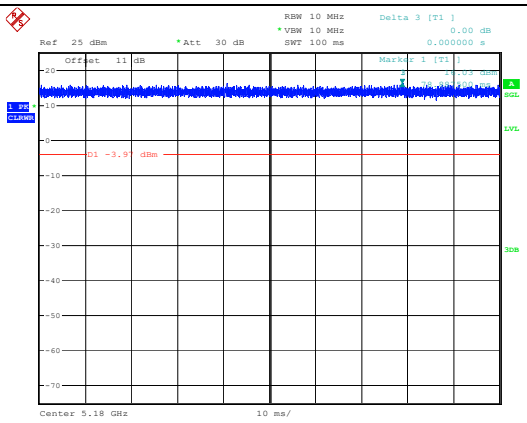
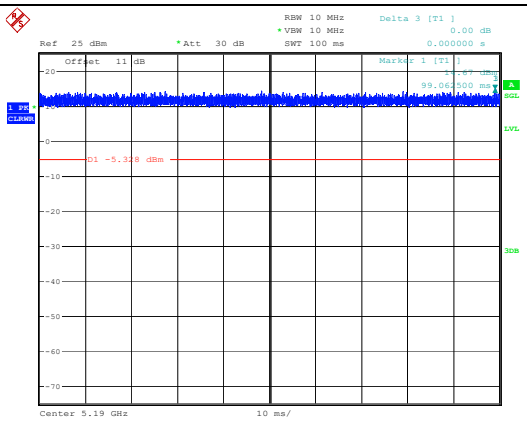
Test Equipment List and Details:

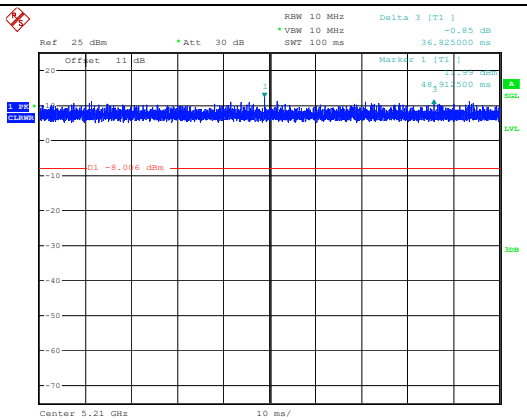
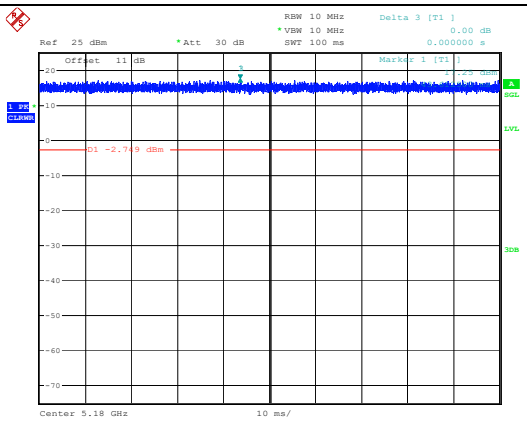
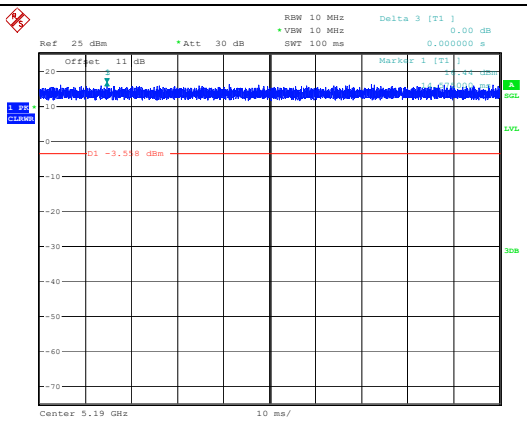
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200120	2023-04-18	2024-04-17
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

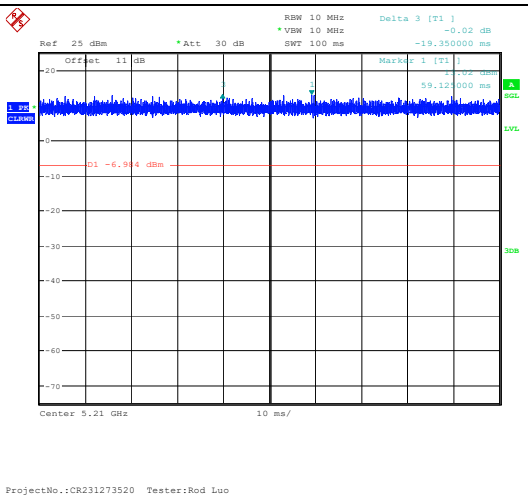
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Modes	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	1/T (Hz)	Duty Cycle Factor (dB)	VBW Setting (Hz)
802.11a	100	100	100.00	/	/	10
802.11ac vht20	100	100	100.00	/	/	10
802.11ac vht40	100	100	100.00	/	/	10
802.11ac vht80	100	100	100.00	/	/	10
802.11ax hew20 (242Tone_RU61)	100	100	100.00	/	/	10
802.11ax hew40 (484Tone_RU65)	100	100	100.00	/	/	10
802.11ax hew80 (996Tone_RU67)	100	100	100.00	/	/	10
Note: Test only was performed at Chain 0.						

Duty Cycle	
802.11a	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:35:53
802.11ac vht20	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:58:42
802.11ac vht40	 ProjectNo.:CR231273520 Tester:Rod Luo Date: 20.DEC.2023 14:47:47

Duty Cycle	
802.11ac vht80	
802.11ax hew20	
802.11ax hew40	

802.11ax hew80	

5. EUT PHOTOGRAPHS

Please refer to the attachment CR231273520-EXP EUT EXTERNAL PHOTOGRAPHS and CR231273520-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231273520-00D-TSP TEST SETUP PHOTOGRAPHS.

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