



FCC Test Report

**Test report
On Behalf of
TEVII TECHNOLOGY CO., LTD.**

**For
Wireless HDMI Extender
Model No.: G405RX, PRESENT+SHARE (USB-C 4K EDITION),
EHW-200-Rx**

FCC ID: 2ALU5-G405RX

Prepared For : **TEVII TECHNOLOGY CO., LTD.**
10F, No.125, Sec. 2, Datong Rd. 22183 Xizhi District, New Taipei City, Taiwan

Prepared By : **Shenzhen HUAK Testing Technology Co., Ltd.**
**1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China**

Date of Test: **Jun. 24, 2024 ~ Jul. 01, 2024**

Date of Report: **Jul. 01, 2024**

Report Number: **HK2406243282-1E**



Test Result Certification

Applicant's name: TEVII TECHNOLOGY CO., LTD.
Address: 10F, No.125, Sec. 2, Datong Rd. 22183 Xizhi District, New Taipei City, Taiwan
Manufacturer's Name: TEVII TECHNOLOGY CO., LTD.
Address: 10F, No.125, Sec. 2, Datong Rd. 22183 Xizhi District, New Taipei City, Taiwan

Product description

Trade Mark: TEVII, Clearclick, COVID
Product name.....: Wireless HDMI Extender
Model and/or type reference...: G405RX, PRESENT+SHARE (USB-C 4K EDITION), EHW-200-Rx

Standards: FCC Rules and Regulations Part 15 Subpart E Section 15.407
 ANSI C63.10: 2013

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Date of Test:
Date (s) of performance of tests: **Jun. 24, 2024 ~ Jul. 01, 2024**
Date of Issue.....: **Jul. 01, 2024**
Test Result.....: **Pass**

Testing Engineer : Len Liao
 (Len Liao)

Technical Manager : Sliver Wan
 (Sliver Wan)

Authorized Signatory : Jason Zhou
 (Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jul. 01, 2024	Jason Zhou



1. Test Result Summary

1.1. Test Procedures and Results

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a)	PASS
6dB Emission Bandwidth	§15.407(e)	N/A
26dB Emission Bandwidth & 99% Occupied Bandwidth	§15.407(a)	PASS
Power Spectral Density	§15.407(a)	PASS
Band edge	§15.407(b)/15.209/15.205	PASS
Radiated Emission	§15.407(b)/15.209/15.205	PASS
Frequency Stability	§15.407(g)	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

1.2. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,
 Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.
 FCC Designation Number is CN1229.
 Canada IC CAB identifier is CN0045.
 CNAS Registration Number is L9589.



1.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 0.37\text{dB}$
2	RF power, conducted	$\pm 3.35\text{dB}$
3	Spurious emissions, conducted	$\pm 2.20\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$



2. EUT Description

2.1. General Description of EUT

Equipment	Wireless HDMI Extender
Model Name	G405RX
Serial Model	PRESENT+SHARE (USB-C 4K EDITION), EHW-200-Rx
Model Difference	All model's the function, software and electric circuit are the same, only with model named different. Test sample model: G405RX.
Trade Mark	TEVII, Clearclick, COVID
FCC ID	2ALU5-G405RX
Operation Frequency	IEEE 802.11a/n/ac(HT20) 5.180GHz-5.240GHz IEEE 802.11n/ac(HT40) 5.190GHz-5.230GHz IEEE 802.11ac(HT80) 5.210GHz
Modulation Technology	IEEE 802.11a/n/ac
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Antenna Type	FPC Antenna
Antenna Gain	Antenna 1: 2.77dBi Antenna 2: 3.18dBi MIMO: 5.99dBi
Power Source	DC 5V
Power Supply	DC 5V
Hardware Version	V2.0
Software Version	V2.0
<p>Note: The EUT incorporates a MIMO function. Physically, it provides two completed transmitters and receivers(2T2R), two transmit signals are completely correlated, then, Direction gain= GANT + Array Gain(Array Gain=10 log(2) dB for power spectral density; Array Gain=0 for power measurement)</p>	



2.2. Operation Frequency each of channel

802.11a/802.11n(HT20) 802.11ac(HT20)		802.11n(HT40)/ 802.11ac(HT40)		802.11ac(HT80)	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

2.3. Operation of EUT During Testing

For 802.11a/n (HT20)/ac(HT20)

Band I (5150 - 5250 MHz)		
Channel Number	Channel	Frequency (MHz)
36	Low	5180
40	Mid	5200
48	High	5240

For 802.11n (HT40)/ac(HT40)

Band I (5150 - 5250 MHz)		
Channel Number	Channel	Frequency (MHz)
38	Low	5190
46	High	5230

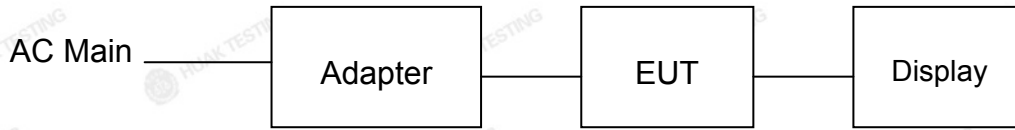
For 802.11ac(HT80)

Band I (5150 - 5250 MHz)	
Channel Number	Frequency (MHz)
42	5210



2.4. Description of Test Setup

Operation of EUT during conducted testing and radiation testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	Wireless HDMI Extender	TEVII, Clearclick, COVID	G405RX	N/A	EUT
2	Adapter	N/A	MDY-10-EH	Input: 100-240VAC, 50/60Hz, 0.7A Output: 5V 3A/9V 3A/12V 2.25A/20V 1.35A	Peripheral
3	Display	N/A	24PFF3661/T3	Input: AC 120V/60Hz	Peripheral

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 26db Bandwidth and 99% Occupied Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



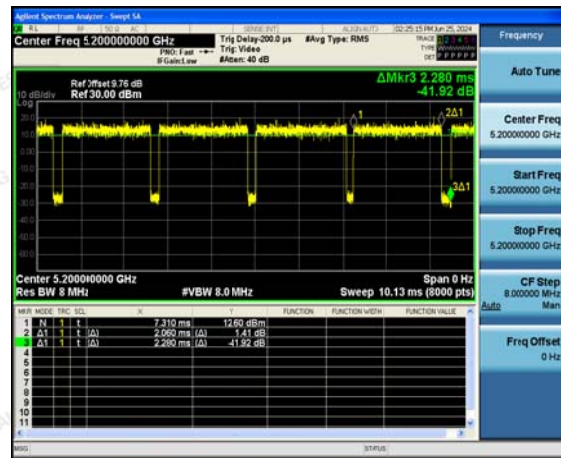
3. General Information

3.1. Test environment and mode

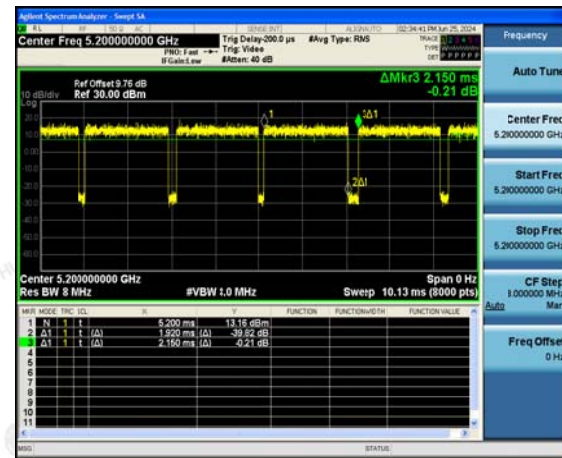
Operating Environment:		
Temperature:	25.0 °C	
Humidity:	56 % RH	
Atmospheric Pressure:	1010 mbar	
Test Mode:		
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)	
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:		
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.		
Mode	Data rate	
802.11a	6 Mbps	
802.11n(HT20)	MCS0	
802.11n(HT40)	MCS0	
802.11ac(HT20)/ac(HT40)/ac(HT80)	MCS0	
Final Test Mode:		
Operation mode:	Keep the EUT in continuous transmitting with modulation	
Mode Test Duty Cycle: ANT.1		
Mode	Duty Cycle	Duty Cycle Factor (dB)
802.11a	0.904	-0.441
802.11n(HT20)	0.893	-0.491
802.11n(HT40)	0.942	-0.259
802.11ac(HT20)	0.889	-0.509
802.11ac(HT40)	0.942	-0.259
802.11ac(HT80)	0.889	-0.512
Test plots as follows:		



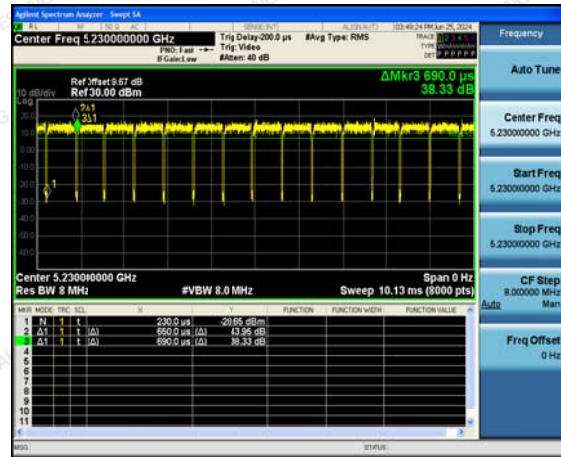
802.11a



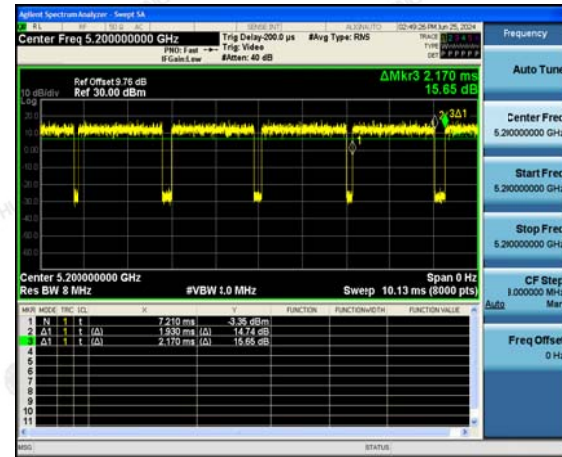
802.11n(HT20)



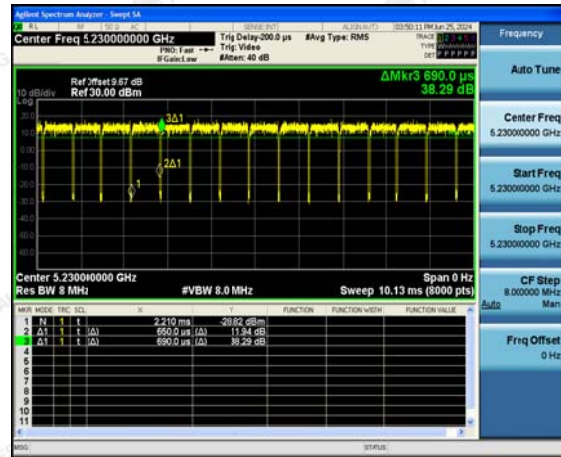
802.11n(HT40)



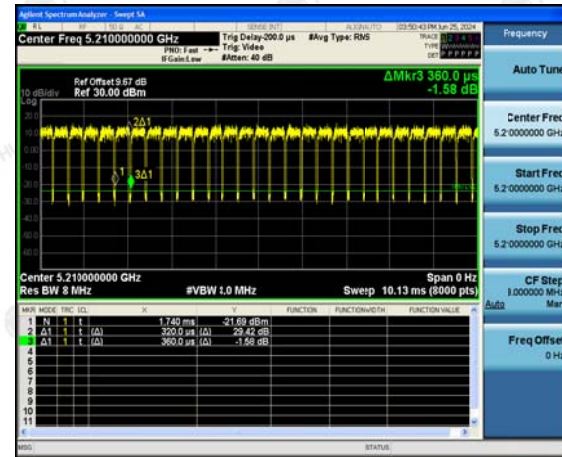
802.11ac(HT20)



802.11ac(HT40)



802.11ac(HT80)



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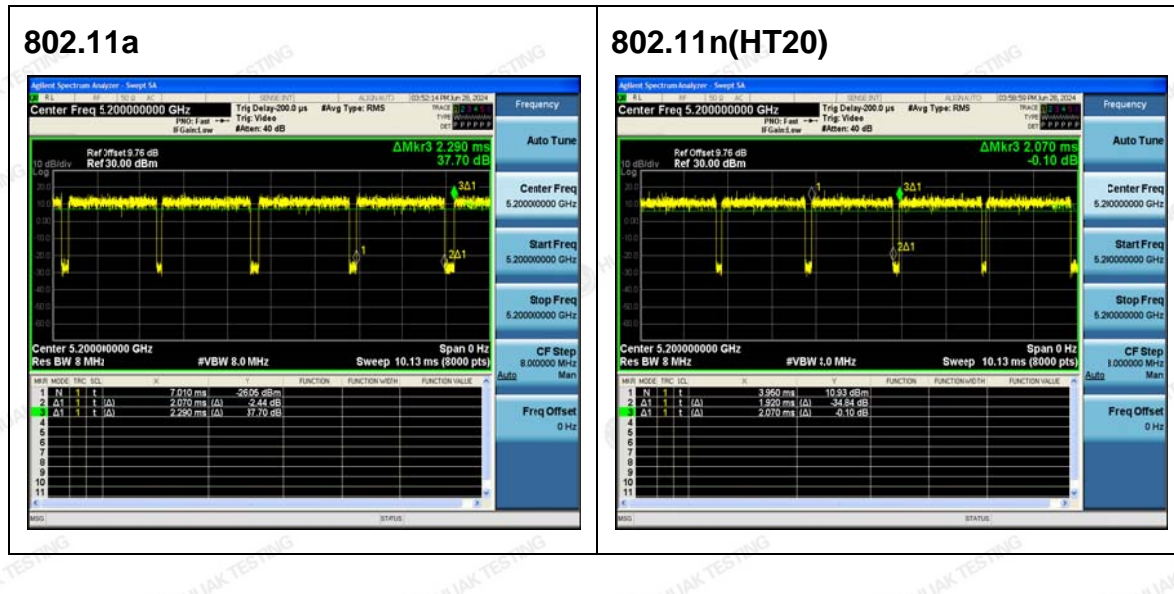
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Mode Test Duty Cycle: ANT.2

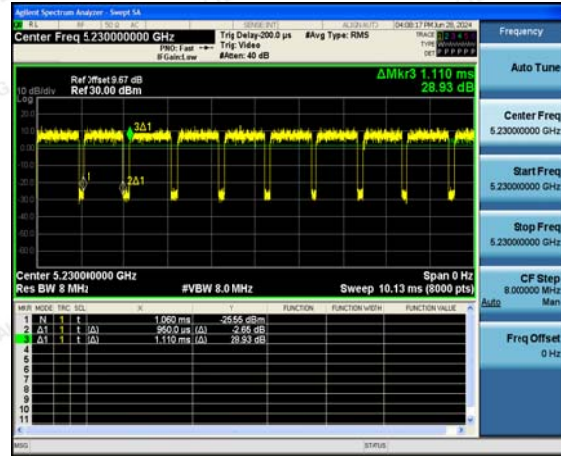
Mode	Duty Cycle	Duty Cycle Factor (dB)
802.11a	0.904	-0.439
802.11n(HT20)	0.928	-0.327
802.11n(HT40)	0.856	-0.676
802.11ac(HT20)	0.886	-0.526
802.11ac(HT40)	0.942	-0.259
802.11ac(HT80)	0.889	-0.512

Test plots as follows:

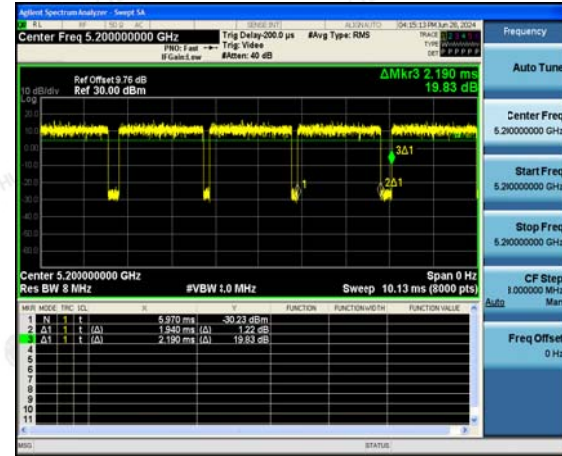




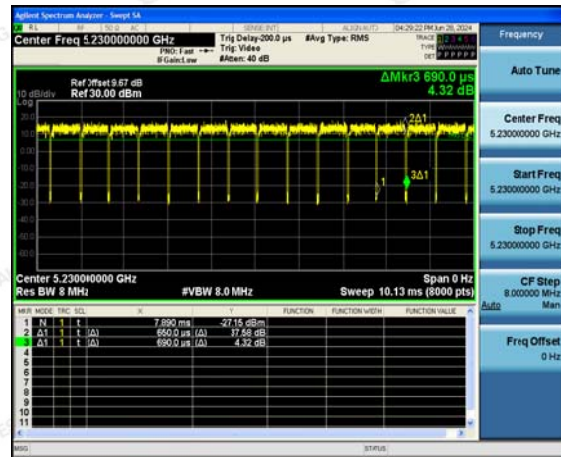
802.11n(HT40)



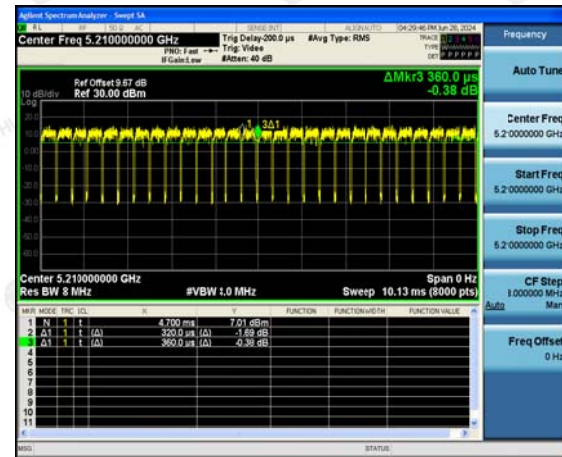
802.11ac(HT20)



802.11ac(HT40)



802.11ac(HT80)



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4. Test Results and Measurement Data

4.1. Conducted Emission

4.1.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
	Frequency range (MHz)		Limit (dBuV)												
		Quasi-peak	Average												
	0.15-0.5	66 to 56*	56 to 46*												
0.5-5	56	46													
5-30	60	50													
Test Setup:	<p style="text-align: center;">Reference Plane</p> <p style="text-align: center;">40cm</p> <p style="text-align: center;">E.U.T AC power 80cm LISN</p> <p style="text-align: center;">Test table/Insulation plane</p> <p style="text-align: center;">Filter AC power</p> <p style="text-align: center;">EMI Receiver</p> <p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Tx Mode														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 														
Test Result:	Pass														

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4.1.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)

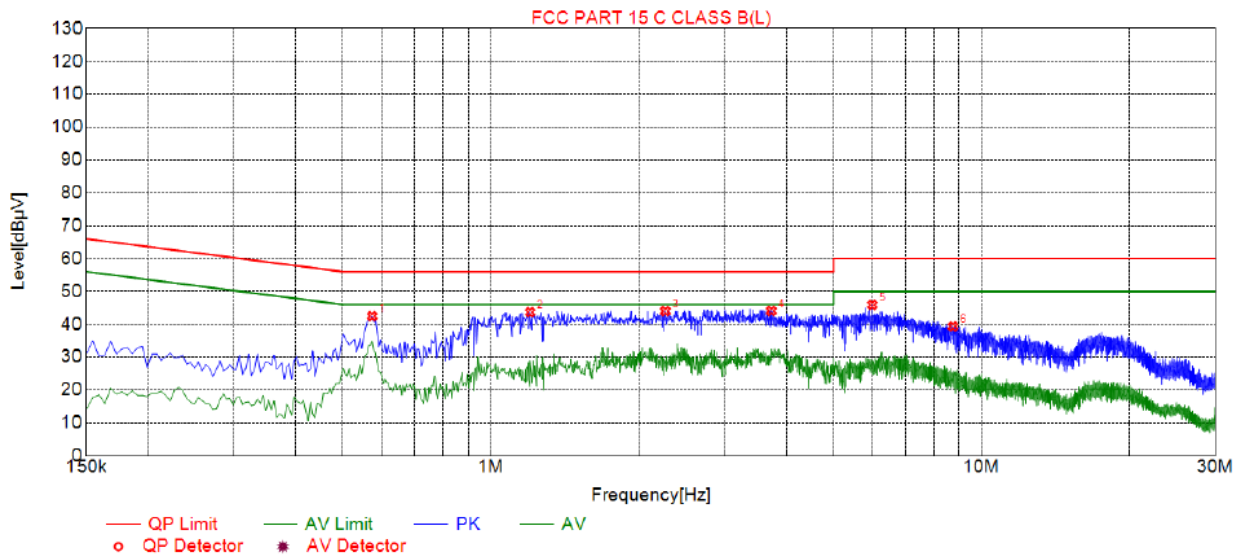
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	Feb. 19, 2025
LISN	R&S	ENV216	HKE-002	Feb. 20, 2024	Feb. 19, 2025
LISN	R&S	ENV216	HKE-059	Feb. 20, 2024	Feb. 19, 2025
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 20, 2024	Feb. 19, 2025
EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A
10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	Feb. 19, 2025

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.1.3. Test data

Test Specification: Line:

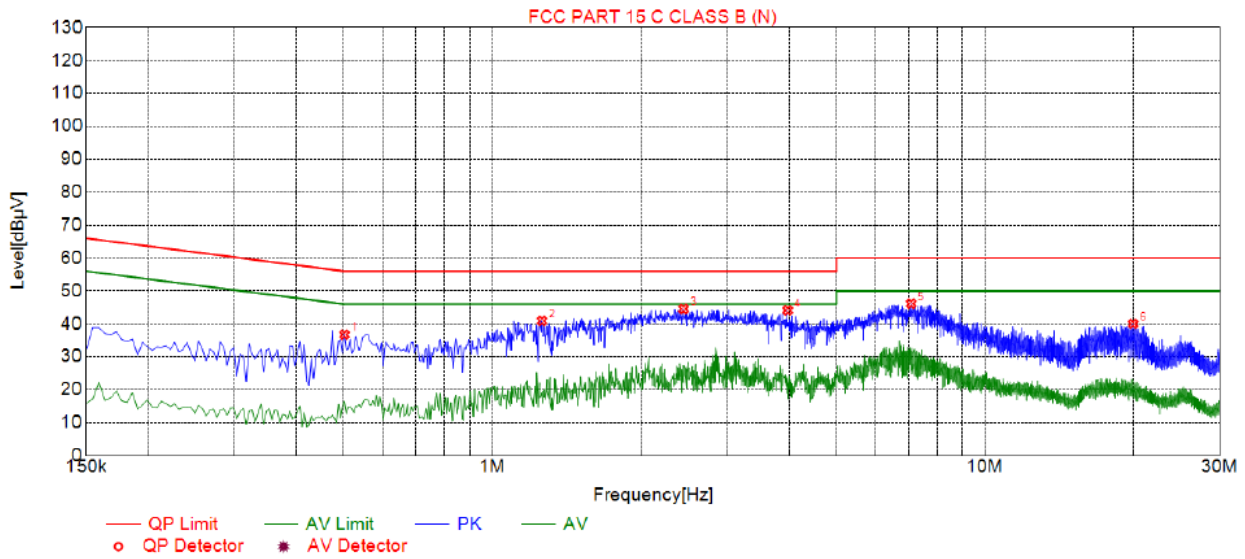


Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.5730	42.48	19.86	56.00	13.52	22.62	PK	L
2	1.2030	43.68	19.90	56.00	12.32	23.78	PK	L
3	2.2695	44.00	20.00	56.00	12.00	24.00	PK	L
4	3.7320	44.07	20.09	56.00	11.93	23.98	PK	L
5	5.9955	45.90	20.09	60.00	14.10	25.81	PK	L
6	8.7540	39.32	20.00	60.00	20.68	19.32	PK	L

Remark: Margin = Limit – Level
 Correction factor = Cable lose + LISN insertion loss
 Level=Test receiver reading + correction factor



Test Specification: Neutral:



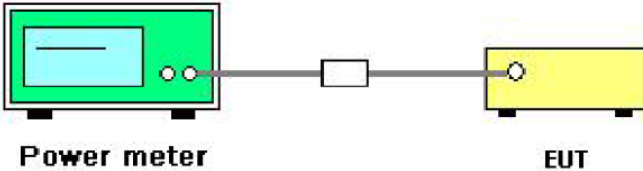
Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.5010	36.72	19.73	56.00	19.28	16.99	PK	N
2	1.2615	40.92	19.77	56.00	15.08	21.15	PK	N
3	2.4450	44.54	19.89	56.00	11.46	24.65	PK	N
4	3.9795	44.11	19.97	56.00	11.89	24.14	PK	N
5	7.0845	46.15	19.96	60.00	13.85	26.19	PK	N
6	19.9950	39.99	19.98	60.00	20.01	20.01	PK	N

Remark: Margin = Limit – Level
 Correction factor = Cable lose + LISN insertion loss
 Level=Test receiver reading + correction factor



4.2. Maximum Conducted Output Power

4.2.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)	
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E	
Limit:	Frequency Band (MHz)	Limit
	5150-5250	250mW for client devices
Test Setup:	 <p>The diagram illustrates the test setup. On the left is a green Power meter. A cable connects it to a small white attenuator. Another cable connects the attenuator to a yellow EUT (Equipment Under Test) on the right.</p>	
Test Mode:	Transmitting mode with modulation	
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the conducted output power and record the results in the test report. 	
Test Result:	PASS	
Remark:	<p>Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power</p>	



4.2.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025
Power meter	Agilent	E4419B	HKE-085	Feb. 20, 2024	Feb. 19, 2025
Power Sensor	Agilent	E9300A	HKE-086	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.2.3. Test Data

Configuration Band I (5150 - 5250 MHz)						
Mode	Test channel	Maximum Conducted Output Power (dBm)			FCC Limit (dBm)	Result
		Antenna port 1	Antenna port 2	MIMO		
802.11a	CH36	11.36	10.02	/	24	PASS
802.11a	CH40	11.19	9.46	/	24	PASS
802.11a	CH48	10.83	9.32	/	24	PASS
802.11n(HT20)	CH36	10.79	9.72	13.30	24	PASS
802.11n(HT20)	CH40	11.18	9.24	13.33	24	PASS
802.11n(HT20)	CH48	10.58	9.31	13.00	24	PASS
802.11n(HT40)	CH38	10.74	9.46	13.16	24	PASS
802.11n(HT40)	CH46	10.5	9.3	12.95	24	PASS
802.11ac(HT20)	CH36	10.98	9.8	13.44	24	PASS
802.11ac(HT20)	CH40	10.97	9.53	13.32	24	PASS
802.11ac(HT20)	CH48	10.49	9.35	12.97	24	PASS
802.11ac(HT40)	CH38	10.97	9.6	13.35	24	PASS
802.11ac(HT40)	CH46	10.92	9.51	13.28	24	PASS
802.11ac(HT80)	CH42	10.67	9.7	13.22	24	PASS

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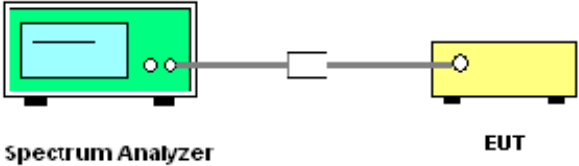
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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



4.3. 6db Emission Bandwidth

4.3.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	>500kHz
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	N/A

4.3.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025
RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4.3.3 Test data

N/A



4.4.3. Test data

ANT. 1

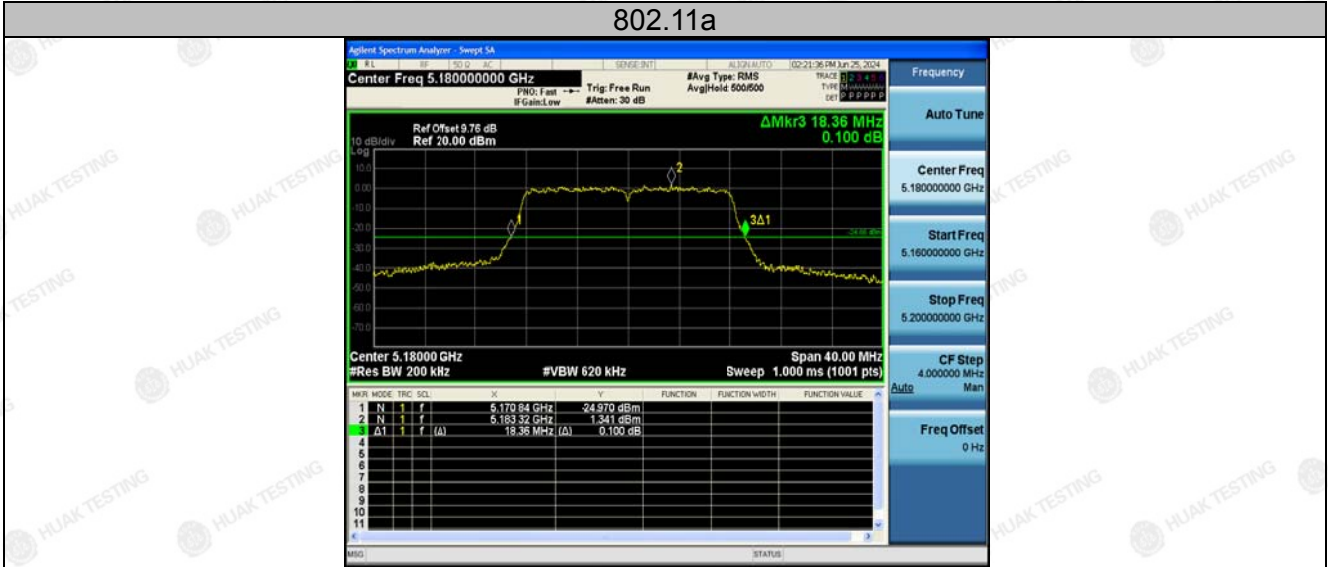
Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Verdict
802.11a	CH36	5180	18.360	PASS
802.11a	CH40	5200	18.600	PASS
802.11a	CH48	5240	18.520	PASS
802.11n(HT20)	CH36	5180	19.400	PASS
802.11n(HT20)	CH40	5200	19.360	PASS
802.11n(HT20)	CH48	5240	19.440	PASS
802.11n(HT40)	CH38	5190	41.120	PASS
802.11n(HT40)	CH46	5230	41.360	PASS
802.11ac(HT20)	CH36	5180	19.400	PASS
802.11ac(HT20)	CH40	5200	19.320	PASS
802.11ac(HT20)	CH48	5240	19.560	PASS
802.11ac(HT40)	CH38	5190	41.360	PASS
802.11ac(HT40)	CH46	5230	41.280	PASS
802.11ac(HT80)	CH42	5210	81.440	PASS

Test plots as follows:



Band I (5150 – 5250 MHz)

802.11a



Low



Mid



High

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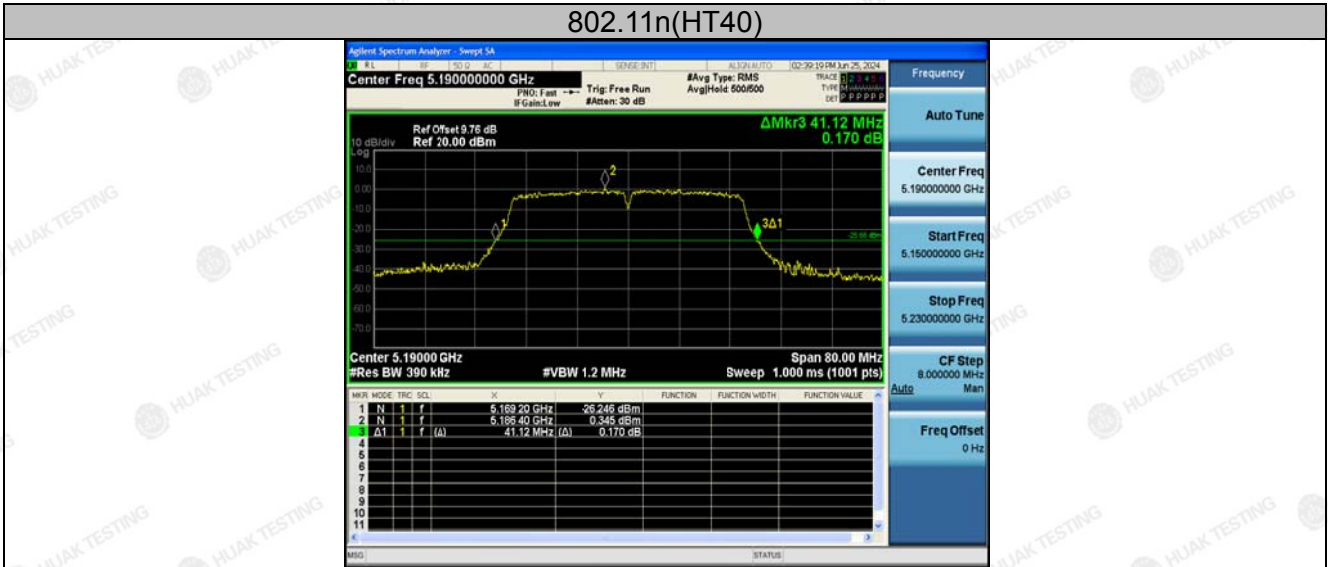
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802.11n(HT40)



Low



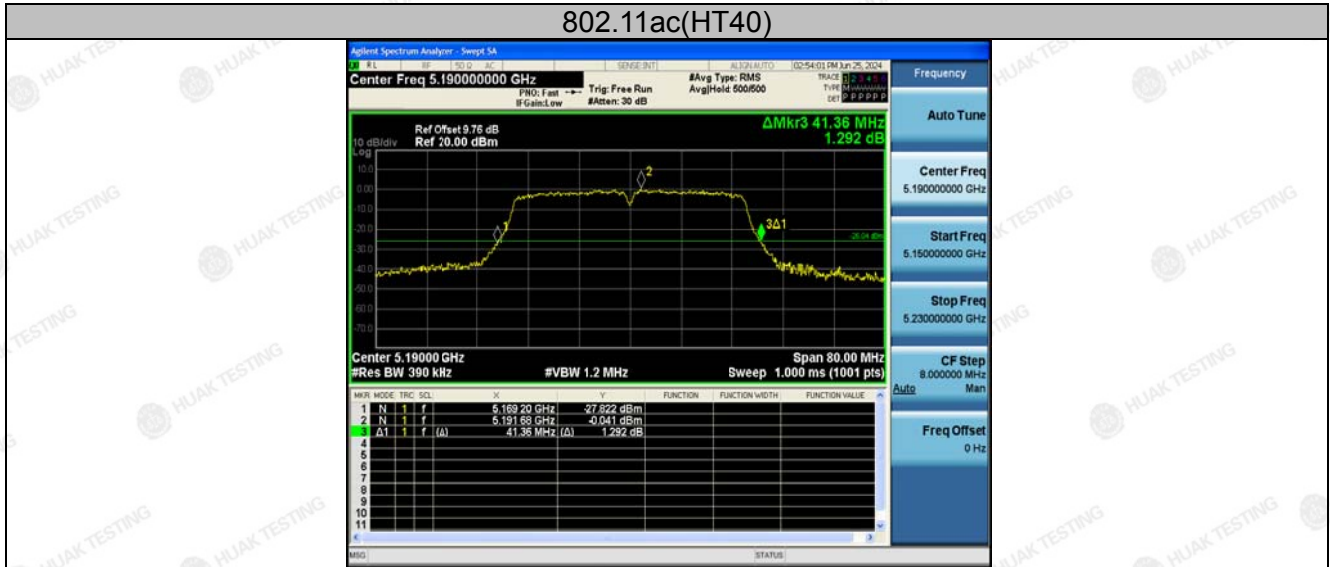
High



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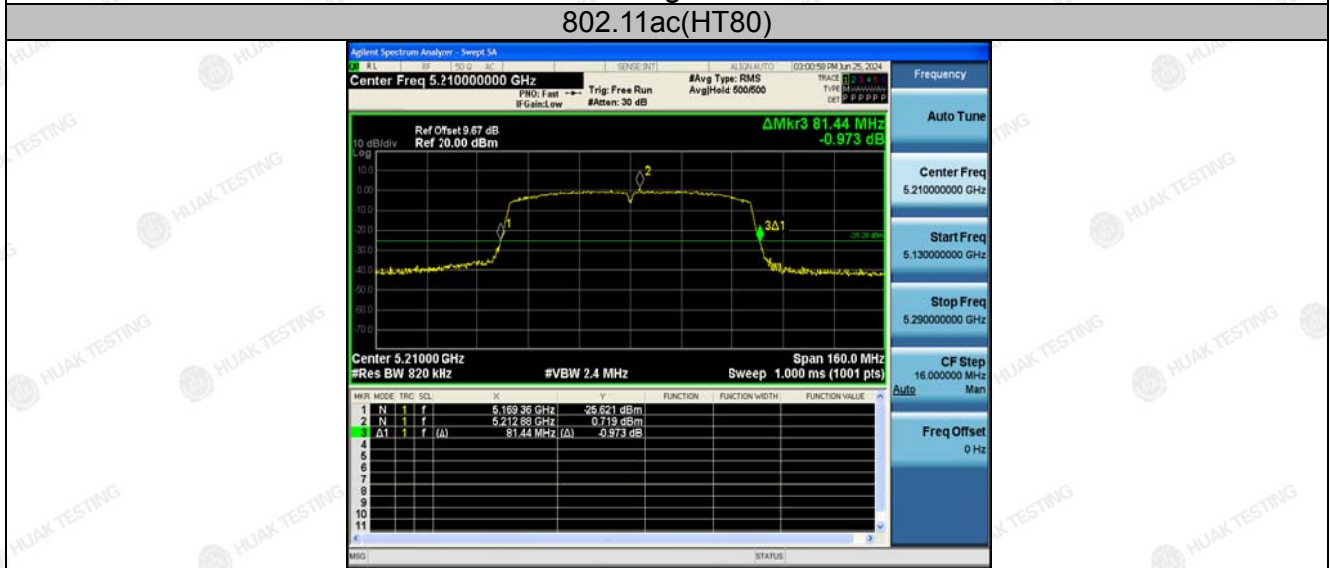
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Low



High



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ANT. 2

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Verdict
802.11a	CH36	5180	18.520	PASS
802.11a	CH40	5200	18.480	PASS
802.11a	CH48	5240	18.520	PASS
802.11n(HT20)	CH36	5180	19.480	PASS
802.11n(HT20)	CH40	5200	19.520	PASS
802.11n(HT20)	CH48	5240	19.480	PASS
802.11n(HT40)	CH38	5190	41.120	PASS
802.11n(HT40)	CH46	5230	41.600	PASS
802.11ac(HT20)	CH36	5180	19.440	PASS
802.11ac(HT20)	CH40	5200	19.320	PASS
802.11ac(HT20)	CH48	5240	19.400	PASS
802.11ac(HT40)	CH38	5190	41.040	PASS
802.11ac(HT40)	CH46	5230	41.200	PASS
802.11ac(HT80)	CH42	5210	81.440	PASS

Test plots as follows:



Band I (5150 – 5250 MHz)



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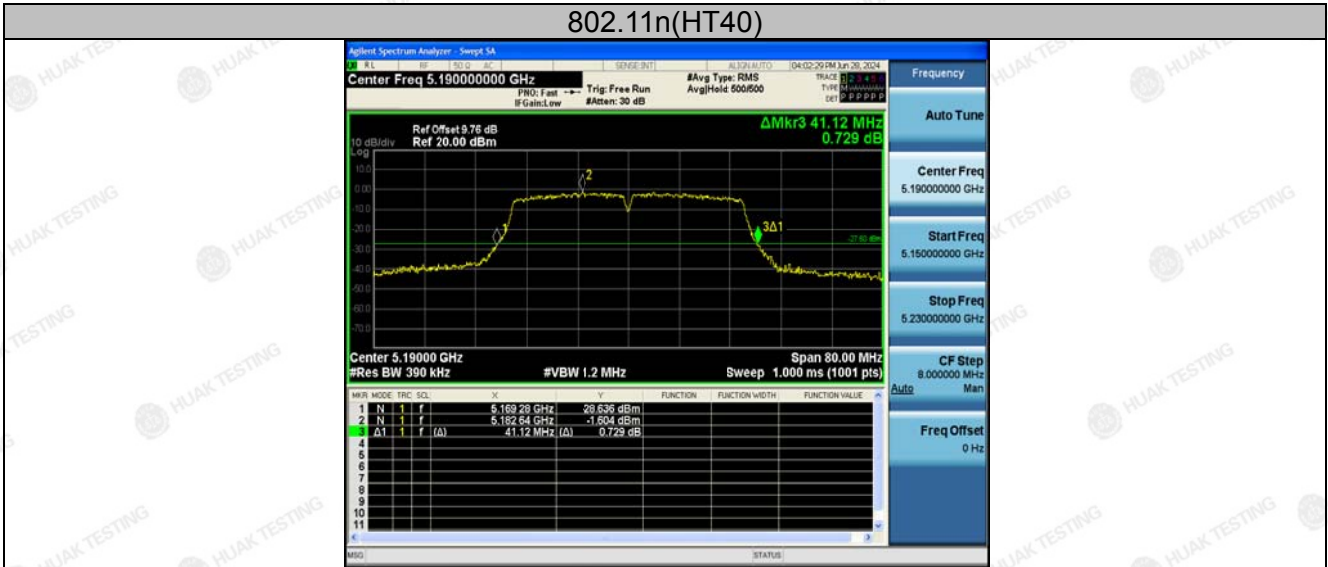
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802.11n(HT40)



Low



High

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802.11ac(HT20)



Low



Mid

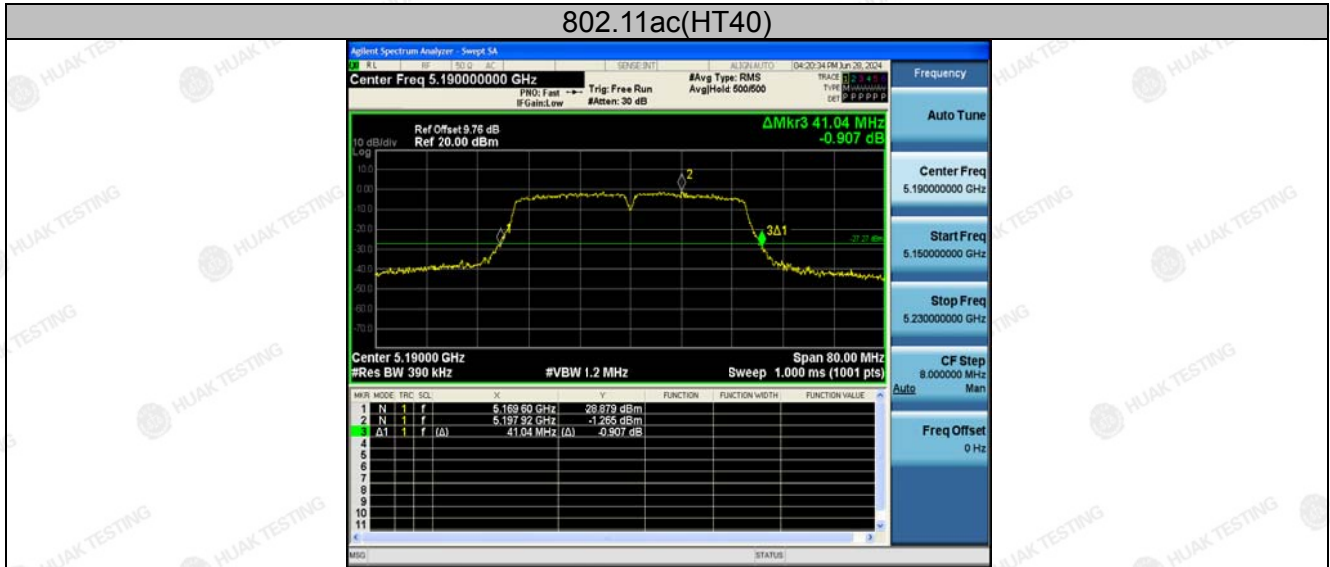


High

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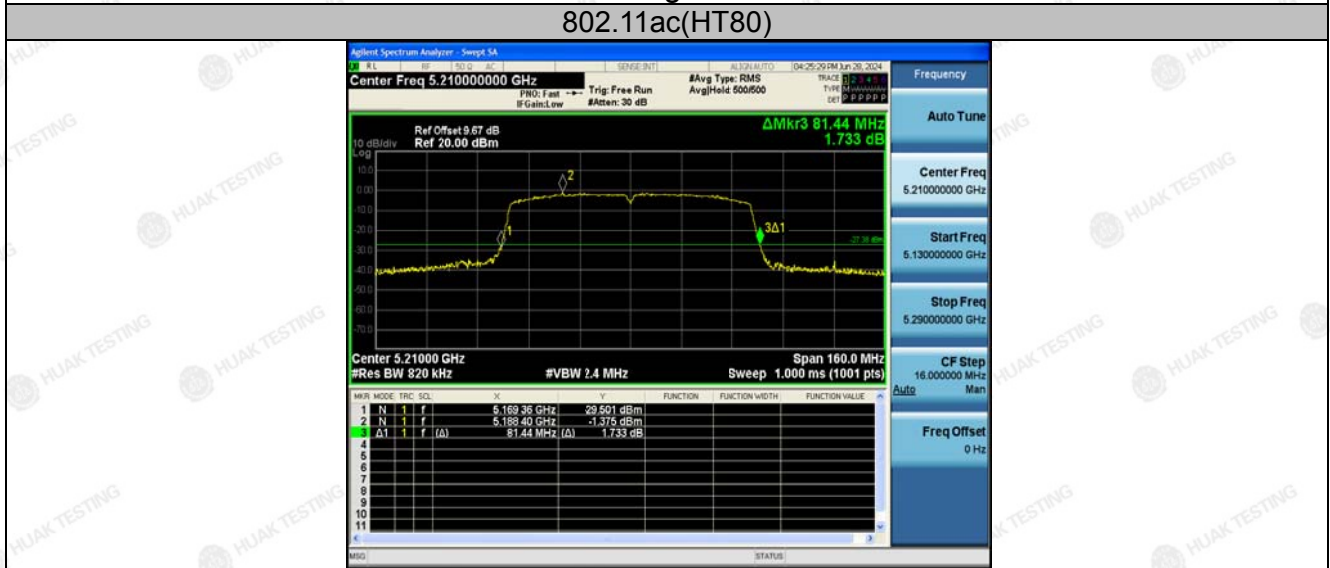
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Low



High



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4.5.3. Test data

ANT.1

Mode	Test channel	Level [dBm/MHz]	Limit (dBm/MHz)	Result
802.11a	CH36	5.66	11	PASS
802.11a	CH40	5.50	11	PASS
802.11a	CH48	5.53	11	PASS
802.11n(HT20)	CH36	5.07	11	PASS
802.11n(HT20)	CH40	5.79	11	PASS
802.11n(HT20)	CH48	5.04	11	PASS
802.11n(HT40)	CH38	2.61	11	PASS
802.11n(HT40)	CH46	2.26	11	PASS
802.11ac(HT20)	CH36	5.63	11	PASS
802.11ac(HT20)	CH40	5.64	11	PASS
802.11ac(HT20)	CH48	4.96	11	PASS
802.11ac(HT40)	CH38	2.79	11	PASS
802.11ac(HT40)	CH46	2.68	11	PASS
802.11ac(HT80)	CH42	1.03	11	PASS

Note: Instrument attenuation and cable loss See test diagram



Test plots as follows:
Band I (5150 – 5250 MHz)



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802.11n(HT20)



Low



Mid



High

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802.11n(HT40)



Low



High

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802.11ac(HT20)



Low



Mid



High

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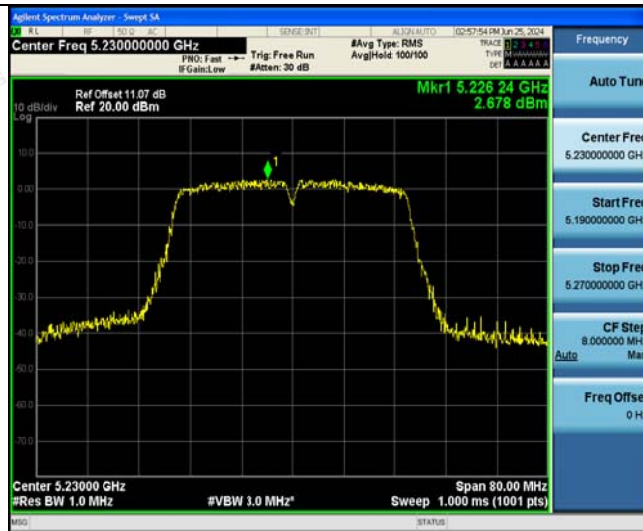
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



802.11ac(HT40)



Low



High

802.11ac(HT80)



Low

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ANT. 2

Mode	Test channel	Level [dBm/MHz]	Limit (dBm/MHz)	Result
802.11a	CH36	4.14	11	PASS
802.11a	CH40	4.26	11	PASS
802.11a	CH48	4.35	11	PASS
802.11n(HT20)	CH36	4.29	11	PASS
802.11n(HT20)	CH40	3.11	11	PASS
802.11n(HT20)	CH48	3.98	11	PASS
802.11n(HT40)	CH38	1.31	11	PASS
802.11n(HT40)	CH46	1.04	11	PASS
802.11ac(HT20)	CH36	3.91	11	PASS
802.11ac(HT20)	CH40	4.33	11	PASS
802.11ac(HT20)	CH48	3.84	11	PASS
802.11ac(HT40)	CH38	1.66	11	PASS
802.11ac(HT40)	CH46	2.15	11	PASS
802.11ac(HT80)	CH42	-1.21	11	PASS

Note: Instrument attenuation and cable loss See test diagram



Test plots as follows:
Band I (5150 – 5250 MHz)



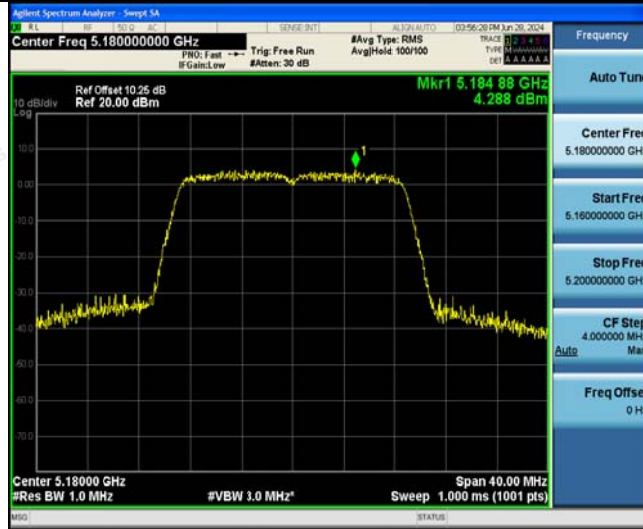
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802.11n(HT20)



Low



Mid



High

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802.11n(HT40)



Low



High

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802.11ac(HT20)



Low



Mid



High

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802.11ac(HT40)



Low



High

802.11ac(HT80)



Low

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For MIMO antenna port 1+antenna port 2

Configuration Band IV (5150 - 5250MHz)

Mode	Test channel	Power Density (dBm)	Limit (dBm/MHz)	Result
802.11n(HT20)	CH36	7.71	11	PASS
802.11n(HT20)	CH40	7.66	11	PASS
802.11n(HT20)	CH48	7.55	11	PASS
802.11n(HT40)	CH38	5.02	11	PASS
802.11n(HT40)	CH46	4.70	11	PASS
802.11ac(HT20)	CH36	7.86	11	PASS
802.11ac(HT20)	CH40	8.04	11	PASS
802.11ac(HT20)	CH48	7.45	11	PASS
802.11ac(HT40)	CH38	5.27	11	PASS
802.11ac(HT40)	CH46	5.43	11	PASS
802.11ac(HT80)	CH42	3.06	11	PASS

Note:

- 1 According to KDB 662911, Result power = $10\log(10^{(ant1/10)} + 10^{(ant2/10)})$.
- 2 Result unit: W, The end result is converted to units of dBm.
- 3 This product supports antenna 1, and antenna2 launch, but only support 802.11 n/ac for MIMO mode, not support 802.11 a for MIMO mode.

4.6. Band edge

4.6.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10 2013
Limit:	<p>For band I&II&III: $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dB}\mu V/m$, for $EIRP(dBm) = -27 \text{ dBm}$</p> <p>For transmitters operating in the 5.725-5.85 GHz band:</p> <p>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.</p> <p>For band IV(5715-5725MHz&5850-5860MHz): $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 78.2 \text{ dB}\mu V/m$, for $EIRP(dBm) = -27 \text{ dBm}$;</p> <p>For band IV(other un-restricted band): $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dB}\mu V/m$, for $EIRP(dBm) = -27 \text{ dBm}$</p>
Test Setup:	<p>The diagram illustrates the test setup. An Equipment Under Test (EUT) is placed on a Test Table, which is 1.5m high. The EUT is positioned 3m away from an Antenna feed point. The antenna is mounted on a vertical stand that is 1.4m high. The entire setup is on a Ground Plane. A Receiver and an Amplifier are connected to the antenna feed point.</p>
Test Mode:	Transmitting mode with modulation



Test Procedure:	<ol style="list-style-type: none">1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.
Test Result:	PASS



4.6.2. Test Instruments

Radiated Emission Test Site (966)

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	Feb. 19, 2025
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	Feb. 19, 2025
EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



4.6.3. Test Data

ANT. 1

Operation Mode: 802.11a Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	53.69	-2.49	51.2	74	-22.8	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	53.14	-2.49	50.65	74	-23.35	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



Operation Mode: TX CH High with 5.2G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5350	55.02	-2.11	52.91	74	-21.09	peak
5350	/	-2.11	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5350	54.14	-2.11	52.03	74	-21.97	peak
5350	/	-2.11	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



Operation Mode: 802.11n20 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	54.28	-2.49	51.79	74	-22.21	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	54.76	-2.49	52.27	74	-21.73	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



Operation Mode: TX CH High with 5.2G

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5350	55.03	-2.11	52.92	74	-21.08	
5350	/	-2.11	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5350	53.16	-2.11	51.05	74	-22.95	
5350	/	-2.11	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



Operation Mode: 802.11 n40 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5150	54.16	-2.49	51.67	74	-22.33	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5150	55.25	-2.49	52.76	74	-21.24	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



Operation Mode: TX CH High with 5.2G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	53.16	-2.11	51.05	74	-22.95	peak
5350	/	-2.11	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5350	54.87	-2.11	52.76	74	-21.24	peak
5350	/	-2.11	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



Operation Mode: 802.11 ac20 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	51.25	-2.49	48.76	74	-25.24	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5150	52.36	-2.49	49.87	74	-24.13	peak
5150	/	-2.49	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



Operation Mode: TX CH High with 5.2G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5350	52.49	-2.11	50.38	74	-23.62	peak
5350	/	-2.11	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5350	52.77	-2.11	50.66	74	-23.34	peak
5350	/	-2.11	/	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.