TEST REPORT

Product Name	:	TABLET
Brand Name	:	N/A
Model	:	K10
Series Model	:	N/A
FCC ID	:	2BU85-K10
Applicant	:	**JIAHANG TECHNOLOGY (HONG KONG) CO.,LIMITED**
Address	:	19H MAXGRAND PLAZA 3 TAI YAU STREET SAN PO KONG KL ,HONG KONG, China
Manufacturer	:	**LUZHENG TECHNOLOGY HONGKONG LIMITED**
Address	:	ROOM A08, 2/F LEE KA INDUSTRIAL BUILDING 8 NG FONG STREET SAN PO KONG HK
Standard(s)	:	FCC CFR Title 47 Part 15 Subpart E Section 15.407
Date of Receipt	:	Apr. 09, 2026
Date of Test	:	Apr. 09, 2026~ Apr. 16, 2026
Issued Date	:	Apr. 16, 2026

Issued By: **Guangdong Asia Hongke Test Technology Limited**
B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community,
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Reviewed by: Nels Wang **Approved by:** Allen Wang

Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.

Report Revise Record

Report Version	Issued Date	Notes
M0	Apr. 16, 2026	Initial Release

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15 Subpart E—Unlicensed National Information Infrastructure Devices.

ANSI C63.10-2020+Cor 1-2023: American National Standard for Testing Unlicensed Wireless Devices

KDB789033 D02: General UNII Test Procedures New Rules v02r01.

1.2 Test Summary

FCC Requirement		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.407(a)	Emission Bandwidth(26dB Bandwidth)	PASS$_{Note1}$
FCC Part 15.407(e)	Minimum Emission Bandwidth(6dB Bandwidth)	PASS$_{Note2}$
FCC Part 15.407(a)	Maximum Conducted Output Power	PASS
FCC Part 15.407(a)	Peak Power Spectral Density	PASS
FCC Part 15.407(g)	Frequency Stability	PASS
FCC Part 15.407(b)	Undesirable emission	PASS
FCC Part 15.407(b)/15.205/15.209	Radiated Emissions	PASS
FCC Part 15.203	Antenna Requirement	PASS

Note 1: Apply to Band1, Band2A, Band2C only.
Note 2: Apply to band3 only.

1.3 Test Facility

Test Laboratory:
Guangdong Asia Hongke Test Technology Limited
B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:
FCC-Registration No.: 251906 Designation Number: CN1376
Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165
The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01
Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the Guangdong Asia Hongke Test Technology Limited’s quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.
Hereafter the best measurement capability for Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	9KHz~30MHz ±1.20 dB	(1)
Radiated Emission	9KHz~30MHz ±3.10dB	(1)
Radiated Emission	30MHz~1GHz ±3.75dB	(1)
Radiated Emission	1GHz~18GHz ±3.88 dB	(1)
Radiated Emission	18GHz-40GHz ±3.88dB	(1)
RF power, conducted	30MHz~6GHz ±0.16dB	(1)
RF power density, conducted	±0.24dB	(1)
Spurious emissions, conducted	±0.21dB	(1)
Temperature	±1℃	(1)
Humidity	±3%	(1)
DC and low frequency voltages	±1.5%	(1)
Time	±2%	(1)
Duty cycle	±2%	(1)

The report uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of k=2 , providing a level of confidence of approximately 95%

2 GENERAL INFORMATION

2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2 General Description of EUT

Product Name:	TABLET			
Model/Type reference:	K10			
Serial Model:	N/A			
Power Ratings:	DC 3.8V, 5000mAh from battery or DC 5V from adapter			
Adapter:	Model:QZ-01005AA00 Input: 100-240V~50/60Hz 0.3A Output: 5.0V⎓2.0A (10.0W)			
Hardware Version:	V1.0			
Software Version:	N/A			
Sample(s) Status:	AiTSZ-260409048-1(Normal sample) AiTSZ-260409048-2(Engineer sample)			
5G WIFI:				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n 802.11ac	802.11n 802.11ac	802.11ac	N/A
Operation frequency:	5180-5240MHz 5745-5825MHz	5190-5230MHz 5755-5795MHz	5210MHz 5775MHz	N/A
Modulation:	OFDM	OFDM	OFDM	N/A
Channel number:	9	4	2	N/A
Channel separation:	20MHz	40MHz	80MHz	N/A
Antenna type:	FPC antenna			
Antenna gain:	U-NII 1: 2.2dBi U-NII 3: 2.31dBi			
Remark: The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.				

2.3 Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing.

All test performed at the low, middle and high of operational frequency range of each mode.

.**Operation Frequency List:**

Operating band	20MHz		40MHz		80MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
U-NII 1 (5150MHz-5250MHz)	36	5180	38	5190	42	5210
	40	5200				
	44	5220	46	5230		
	48	5240				
U-NII 3 (5725MHz-5850MHz)	149	5745	151	5755	155	5775
	153	5765				
	157	5785	159	5795		
	161	5805				
	165	5825	--	--	--	--

Note:

1. "--"Means no channel(s) available any more.
2. The line display in grey is those Channels/Frequencies select to test in this report for each operation mode.

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate
Maximum Conducted Output Power	802.11a SISO	6Mbps
Power Spectral Density	802.11n(HT20) SISO	MCS0
Emission Bandwidth(26dBm Bandwidth)	802.11n(HT40) SISO	MCS0
Minimum Emission Bandwidth(6dBm Bandwidth)	802.11ac(VHT20) SISO	MCS0
Undesirable emission	802.11ac(VHT40) SISO	MCS0
Frequency Stability	802.11ac(VHT80) SISO	MCS0

Power setting during the test:

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

Test Software Version	Engineering Mode		
Test Frequency	Lowest	Middle	Highest
UNII Band 1	Default	Default	Default
UNII Band 3	Default	Default	Default

2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Serial No.	Provided by	Other
Adapter	N/A	QZ-01005AA00	N/A	Manufacturer	N/A
/	/	/	/	/	/

2.5 Equipment List for the Test

Conducted Emission measurement						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
☒1	EMI Test Receiver	R&S	ESPI	100771	2025.09.23	2026.09.22
☒2	LISN	R&S	NNLK 8129	8130179	2025.09.23	2026.09.22
☒3	ISN	TESEQ	T800	29429	2025.09.23	2026.09.22
☒4	Pulse Limiter	R&S	ESH3-Z2	102789	2025.09.23	2026.09.22
☒5	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A

Radiation Emission measurement						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
☒1	EMI Measuring Receiver	R&S	ESR	101160	2025.09.23	2026.09.22
☒2	Low Noise Pre Amplifier	SCHWARZBECK	BBV 9745	00282	2025.09.23	2026.09.22
☒3	Low Noise Pre Amplifier	COM-MW	DLAN8-18000-40000-1066	08233242	2025.06.26	2026.06.25
☒4	Low Noise Pre Amplifier	COM-MW	DLAN8-1000-18000-1021	05231256	2025.06.26	2026.06.25
☒5	Spectrum Analyzer	R&S	FSV40	101470	2025.09.23	2026.09.22
☒6	Passive Loop	ETS	6512	00165355	2024.08.29	2026.08.28
☒7	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9168	01434	2024.08.29	2027.08.28
☒8	Broadband Horn Antenna	Schwarzbeck	BBHA 9120D	452	2024.08.29	2027.08.28
☒9	Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA9170367	2024.08.28	2027.08.27
☒10	6dB Attenuator	JFW	50FPE-006	4360846-949-1	2025.09.23	2026.09.22
☒11	Filter	COM-MW	ZBSF6-C5150-5350-1049	1049	2025.09.23	2026.09.22
☐12	Filter	COM-MW	ZBSF6-C5470-5725-1750	1750	2025.09.23	2026.09.22
☒13	Filter	COM-MW	ZBSF6-C5725-5850-1627	1627	2025.09.23	2026.09.22
☒14	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A

RF Conducted measurement						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
☒1	Spectrum Analyzer	Agilent	N9020A	MY53421570	2025.09.23	2026.09.22
☐2	Power Sensor	Agilent	8481A	MY41097697	2025.09.23	2026.09.22
☐3	Vector Signal Generator	Agilent	N5182A	MY50143009	2025.09.23	2026.09.22
☐4	Analog signal generator	Agilent	E8257	MY51554256	2025.09.23	2026.09.22
☐5	Const Temp. & Humidity Chamber	Eastlab	YH-HW-408L	23051109	2025.09.23	2026.09.22
☐6	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2025.09.23	2026.09.22
☒7	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	2025.09.23	2026.09.22
☐8	RF Test box	TST	TSTPASS	21033016	2025.09.23	2026.09.22
☒9	RF Software	TST	TSTPASS	Version 2.0	N/A	N/A

☐ 10	RF Software	Cesheng	WCN Regulary	Ver 25.03.2901	N/A	N/A

Note: ☐ is not applicable in this Test Report. ☒ is applicable in this Test Report.

3 TEST CONDITIONS AND RESULTS

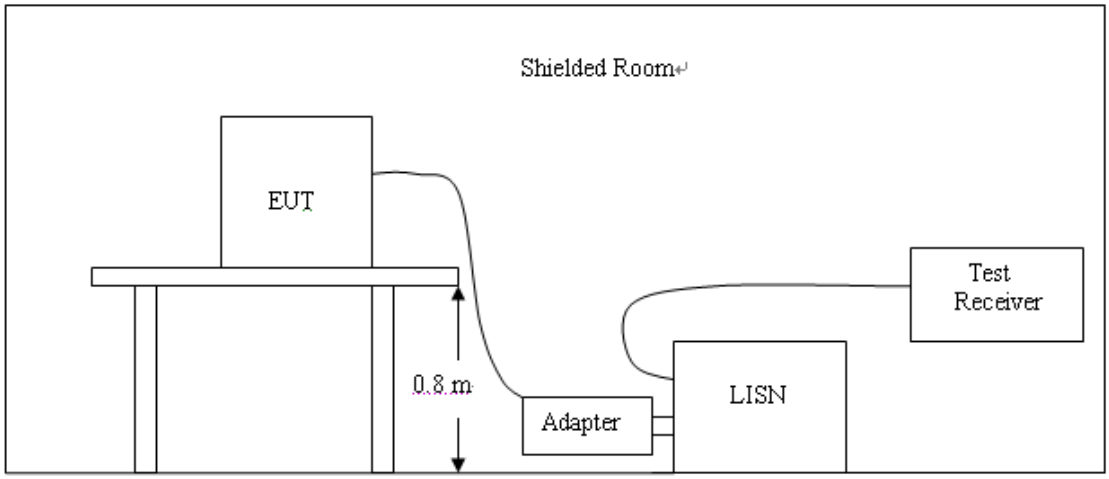
3.1 Conducted Emissions Test

LIMIT

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

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



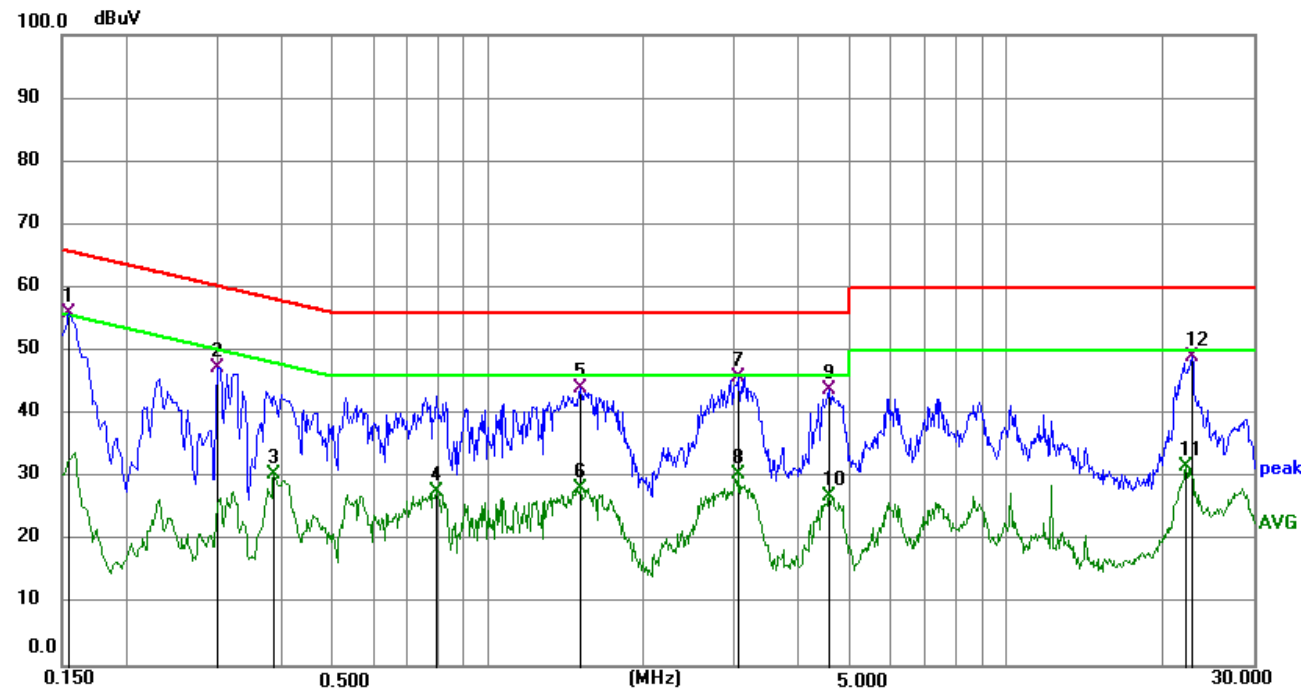
TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020+COR 1-2023.
2. Support equipment, if needed, was placed as per ANSI C63.10-2020+COR 1-2023.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020+COR 1-2023.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

1. Pre-scan all modes of IEEE 802.11a/n(HT20)/n(HT40)/ac(VHT20)/ac (VHT40) /ac (VHT80) at Low, Middle, and High channel; only the worst result of 802.11a Low channel was reported as below:
2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

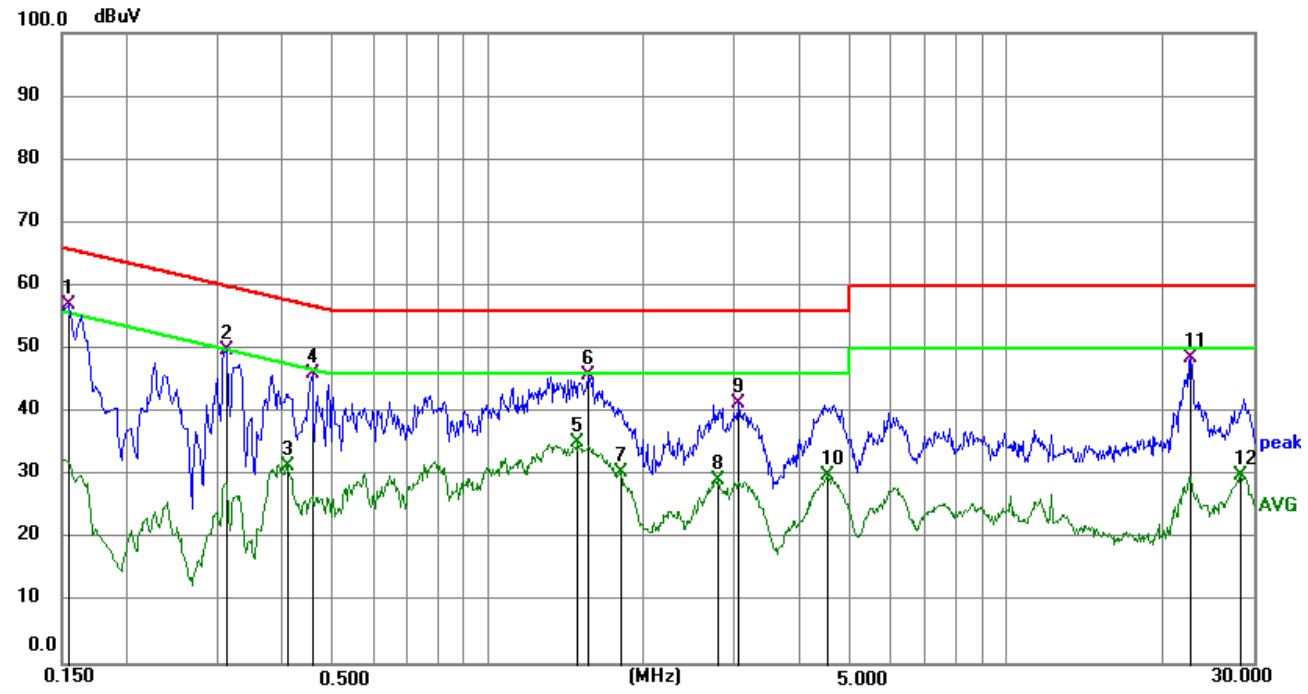
Test Mode	WIFI	Line:	L



Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;
Measurement Result = Reading Level +Correct Factor;
Margin = Measurement Result- Limit

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1544	44.13	11.77	55.90	65.76	-9.86	QP
2	0.2983	36.23	11.07	47.30	60.29	-12.99	QP
3	0.3840	19.22	11.06	30.28	48.19	-17.91	AVG
4	0.7933	16.65	11.05	27.70	46.00	-18.30	AVG
5	1.5041	33.11	11.05	44.16	56.00	-11.84	QP
6	1.5041	17.01	11.05	28.06	46.00	-17.94	AVG
7	3.0390	34.71	11.00	45.71	56.00	-10.29	QP
8	3.0570	19.39	11.00	30.39	46.00	-15.61	AVG
9	4.5644	32.58	11.14	43.72	56.00	-12.28	QP
10	4.5644	15.74	11.14	26.88	46.00	-19.12	AVG
11	22.1910	19.30	12.36	31.66	50.00	-18.34	AVG
12	22.8795	36.76	12.35	49.11	60.00	-10.89	QP

Test Mode	WIFI	Line:	N



Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;
Measurement Result = Reading Level +Correct Factor;
Margin = Measurement Result- Limit

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1544	45.21	11.66	56.87	65.76	-8.89	QP
2	0.3120	38.66	11.00	49.66	59.92	-10.26	QP
3	0.4062	20.48	10.99	31.47	47.73	-16.26	AVG
4	0.4560	35.01	11.00	46.01	56.77	-10.76	QP
5	1.4910	24.16	10.99	35.15	46.00	-10.85	AVG
6	1.5540	34.87	10.99	45.86	56.00	-10.14	QP
7	1.8015	19.47	10.99	30.46	46.00	-15.54	AVG
8	2.7825	18.22	10.95	29.17	46.00	-16.83	AVG
9	3.0570	30.27	10.93	41.20	56.00	-14.80	QP
10	4.5015	18.77	11.07	29.84	46.00	-16.16	AVG
11	22.7130	36.16	12.25	48.41	60.00	-11.59	QP
12	28.3380	17.85	11.98	29.83	50.00	-20.17	AVG

3.2 Radiated Emissions and Band Edge

Limit

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 in the 5.725-5.85 GHz band: 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.

Undesirable emission limits

Requirement	Limit(EIRP)	Limit (Field strength at 3m) Note1
15.407(b)(1)	PK:-27(dBm/MHz)	PK:68.2(dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)		

Note1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209

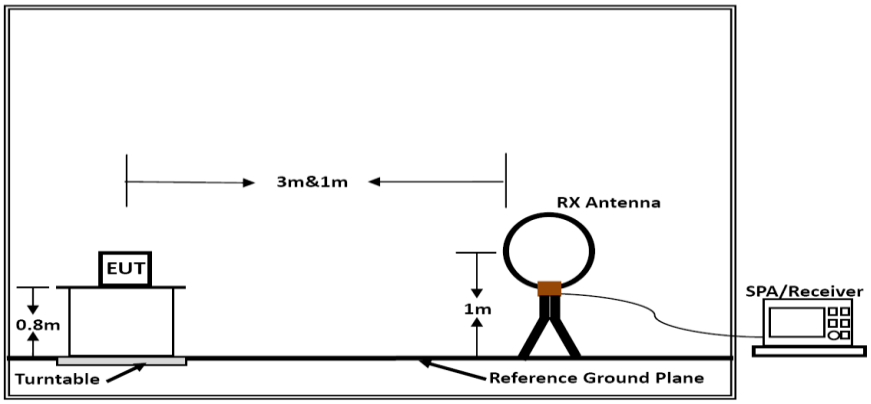
(6)In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

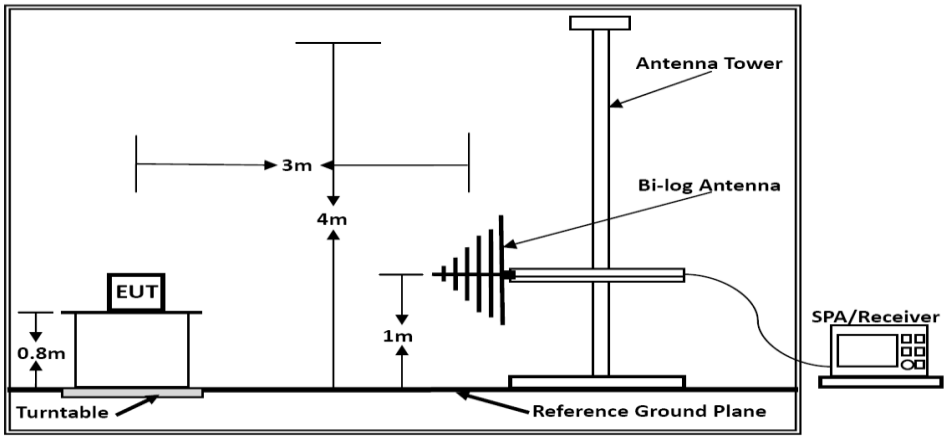
TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



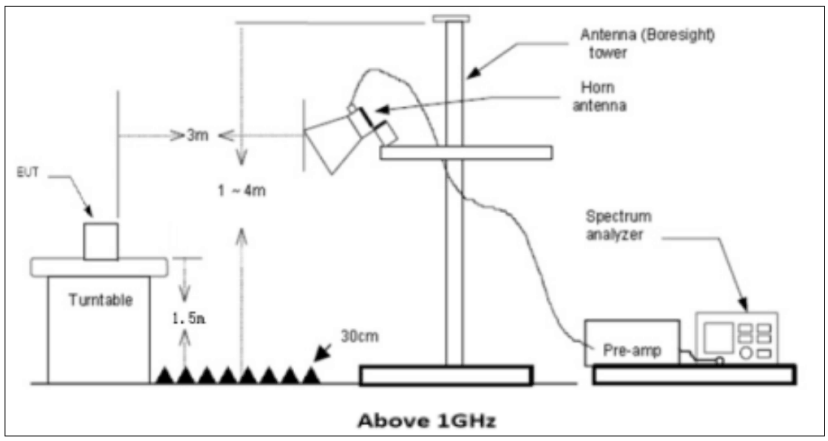
Below 30MHz

(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



Below 1GHz

(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0℃ to 360℃ to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3
1GHz-18GHz	Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

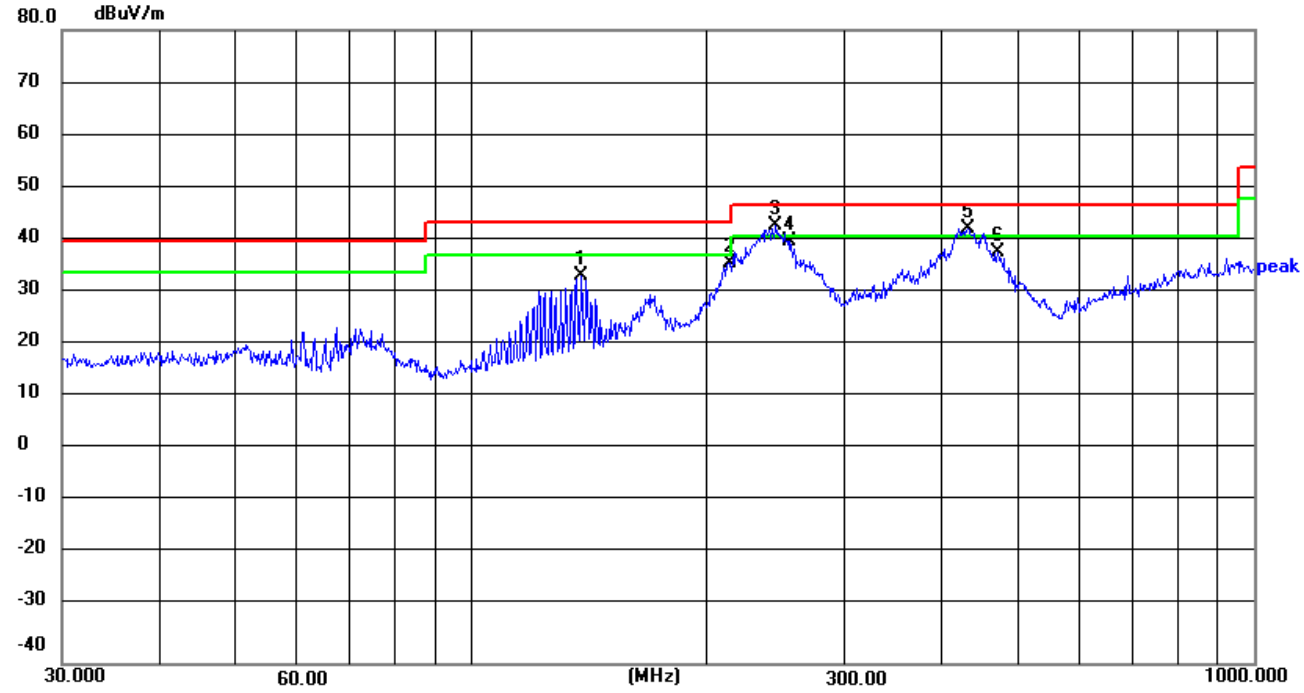
Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

TEST RESULTS

Remark:
1. All WIFI operation modes have been tested for below 1GHz test, only the worst case 802.11a low channel of U-NII 1 band was recorded.
2. All WIFI operation modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.
3. All WIFI operation modes have been tested for U-NII 3 bandedge test, only the worst case of 802.11n(HT40) mode was recorded.
4. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

For 30MHz-1GHz

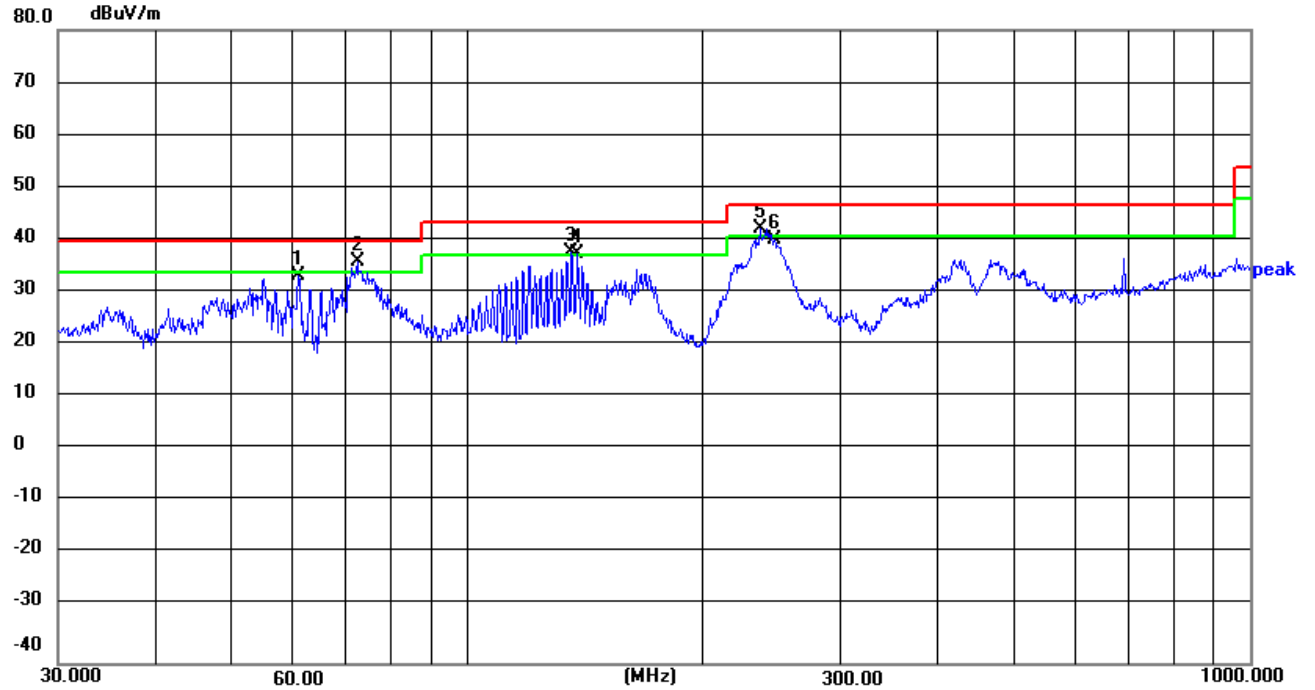
Test mode:	WIFI	Polarization:	Horizontal



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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	138.3873	43.10	-9.45	33.65	43.50	-9.85	peak
2	214.5141	47.40	-11.59	35.81	43.50	-7.69	peak
3	245.0900	52.63	-9.52	43.11	47.00	-3.89	peak
4	255.6230	49.25	-9.28	39.97	47.00	-7.03	peak
5	431.0314	46.59	-4.04	42.55	47.00	-4.45	peak
6	470.5230	41.12	-3.25	37.87	47.00	-9.13	peak

Test mode:	WIFI	Polarization:	Vertical



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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	60.9174	44.07	-10.42	33.65	40.00	-6.35	peak
2	72.3375	47.98	-11.80	36.18	40.00	-3.82	peak
3	135.9821	47.14	-9.31	37.83	43.50	-5.67	peak
4	138.3873	47.25	-9.45	37.80	43.50	-5.70	peak
5	236.6447	52.53	-10.07	42.46	47.00	-4.54	peak
6	246.8150	49.70	-9.47	40.23	47.00	-6.77	peak

For 1GHz to 40GHz

Remark: All WIFI operation modes have been tested for above 1GHz test, only the worst case 802.11a mode was recorded as below:

U-NII 1 @ 802.11a mode (above 1GHz)

Tested Channel	Frequency (MHz)	Meter Reading (dBμV)	Factor (dB/m)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	ANT Pol	Detector Mode
36 (5180MHz)	5150	53.34	-6.33	47.01	68.20	-21.19	V	PK
	10360	45.61	3.87	49.48	68.20	-18.72	V	PK
	--	--	--	--	--	--	--	--
40 (5200MHz)	10400	46.49	4.22	50.71	68.20	-17.49	V	PK
	--	--	--	--	--	--	--	--
48 (5240MHz)	5350	55.39	-5.41	49.98	68.20	-18.22	V	PK
	10480	51.36	3.77	55.13	68.20	-13.07	V	PK
	10480.00	41.82	3.77	45.59	54.00	-8.41	V	AV

Tested Channel	Frequency (MHz)	Meter Reading (dBμV)	Factor (dB/m)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	ANT Pol	Detector Mode
36 (5180MHz)	5150	52.80	-6.33	46.47	68.20	-21.73	H	PK
	10360	45.27	3.87	49.14	68.20	-19.06	H	PK
	--	--	--	--	--	--	--	--
40 (5200MHz)	10400	45.80	4.22	50.02	68.20	-18.18	H	PK
	--	--	--	--	--	--	--	--
48 (5240MHz)	5350	55.37	-5.41	49.96	68.20	-18.24	H	PK
	10480	51.15	3.77	54.92	68.20	-13.28	H	PK
	10480.00	41.32	3.77	45.09	54.00	-8.91	H	AV

REMARKS:

1. Emission level (dBuV/m) =Meter Reading(dBuV)+ Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Emission level- Limit value.
4. --Other emission levels are attenuated 20dB below the limit and not recorded in report.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

U-NII 3 @ 802.11a mode (above 1GHz)

Tested Channel	Frequency (MHz)	Meter Reading (dBμV)	Factor (dB/m)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	ANT Pol	Detector Mode
149 (5745MHz)	11490	51.90	4.83	56.73	68.20	-11.47	V	PK
	11490	38.49	4.83	43.32	54.00	-10.68	V	AV
	--	--	--	--	--	--	--	--
157 (5785MHz)	11570	54.00	5.45	59.45	68.20	-8.75	V	PK
	11570	40.31	5.45	45.76	54.00	-8.24	V	AV
	--	--	--	--	--	--	--	--
165 (5825MHz)	11650	58.26	4.64	62.90	68.20	-5.30	V	PK
	11650	45.66	4.64	50.30	54.00	-3.70	V	AV
	--	--	--	--	--	--	--	--

Tested Channel	Frequency (MHz)	Meter Reading (dBμV)	Factor (dB/m)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	ANT Pol	Detector Mode
149 (5745MHz)	11490	51.85	4.83	56.68	68.20	-11.52	H	PK
	11490	37.95	4.83	42.78	54.00	-11.22	H	AV
	--	--	--	--	--	--	--	--
157 (5785MHz)	11570	53.80	5.45	59.25	68.20	-8.95	H	PK
	11570	39.21	5.45	44.66	54.00	-9.34	H	AV
	--	--	--	--	--	--	--	--
165 (5825MHz)	11650	57.77	4.64	62.41	68.20	-5.79	H	PK
	11650	44.57	4.64	49.21	54.00	-4.79	H	AV
	--	--	--	--	--	--	--	--

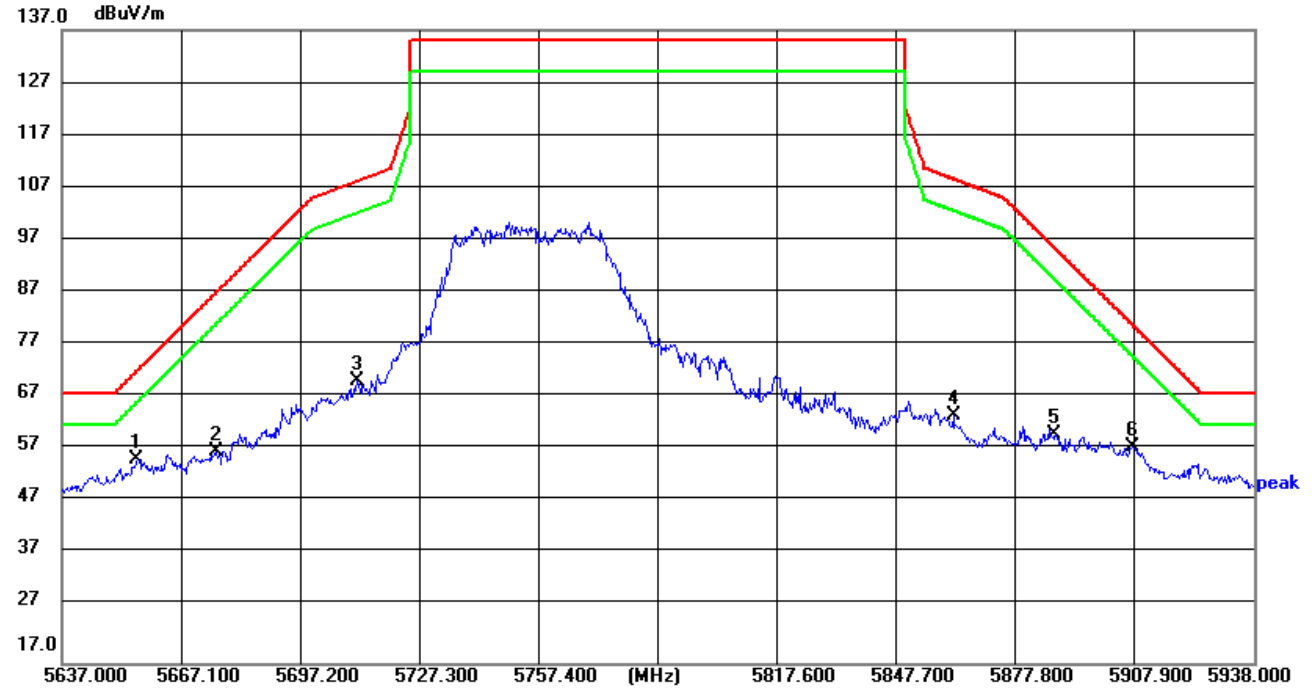
REMARKS:

1. Emission level (dBuV/m) =Meter Reading(dBuV)+ Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
3. Margin value = Emission level- Limit value.
4. --Other emission levels are attenuated 20dB below the limit and not recorded in report.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Band Edge Test Plots of U-NII 3

U-NII 3 @ 802.11n(HT40) mode

Test frequency:	5755	Polarization:	Horizontal



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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	5656.264	60.29	-4.38	55.91	72.84	-16.93	peak
2	5675.829	61.55	-4.38	57.17	87.31	-30.14	peak
3	5711.648	74.93	-4.37	70.56	108.46	-37.90	peak
4	5862.148	68.56	-4.34	64.22	108.80	-44.58	peak
5	5888.034	64.94	-4.33	60.61	95.55	-34.94	peak
6	5907.298	62.53	-4.33	58.20	81.30	-23.10	peak

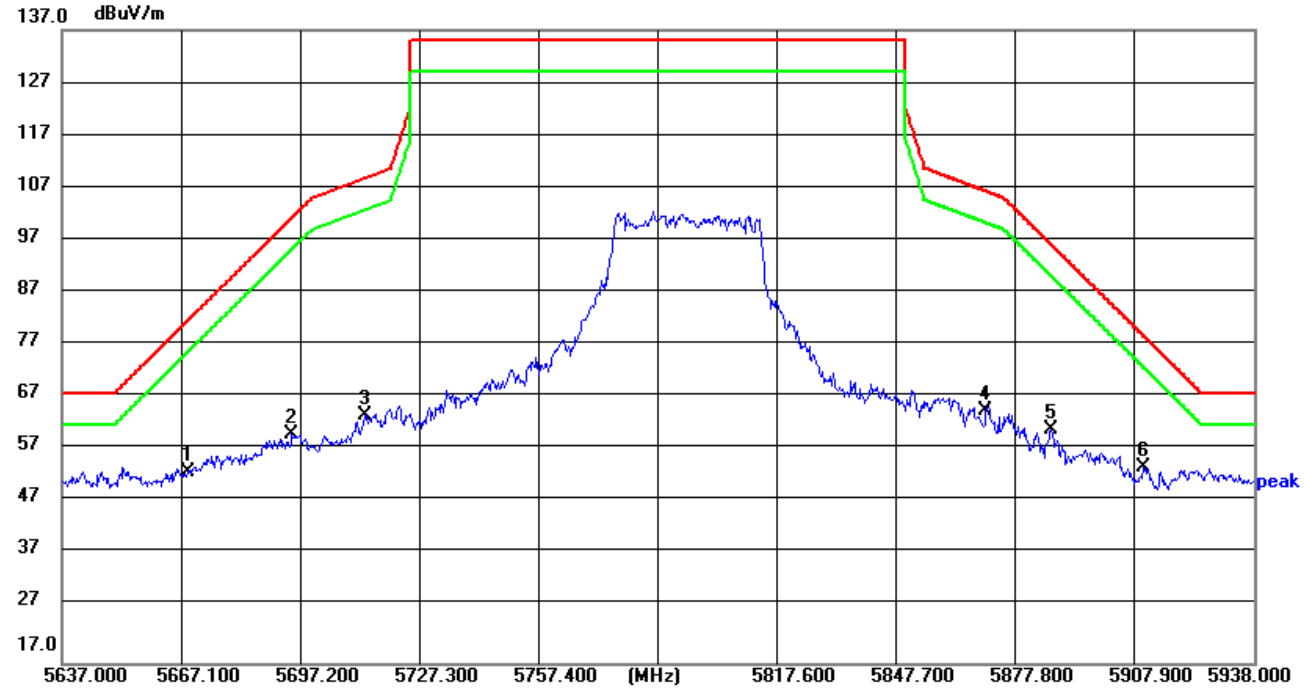
Test frequency:	5755	Polarization:	Vertical

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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	5663.187	61.02	-4.38	56.64	77.96	-21.32	peak
2	5685.762	67.87	-4.38	63.49	94.66	-31.17	peak
3	5709.541	77.31	-4.37	72.94	107.87	-34.93	peak
4	5860.944	63.44	-4.34	59.10	109.14	-50.04	peak
5	5876.596	63.94	-4.34	59.60	104.02	-44.42	peak
6	5898.569	61.80	-4.33	57.47	87.76	-30.29	peak

U-NII 3 @ 802.11n(HT40) mode

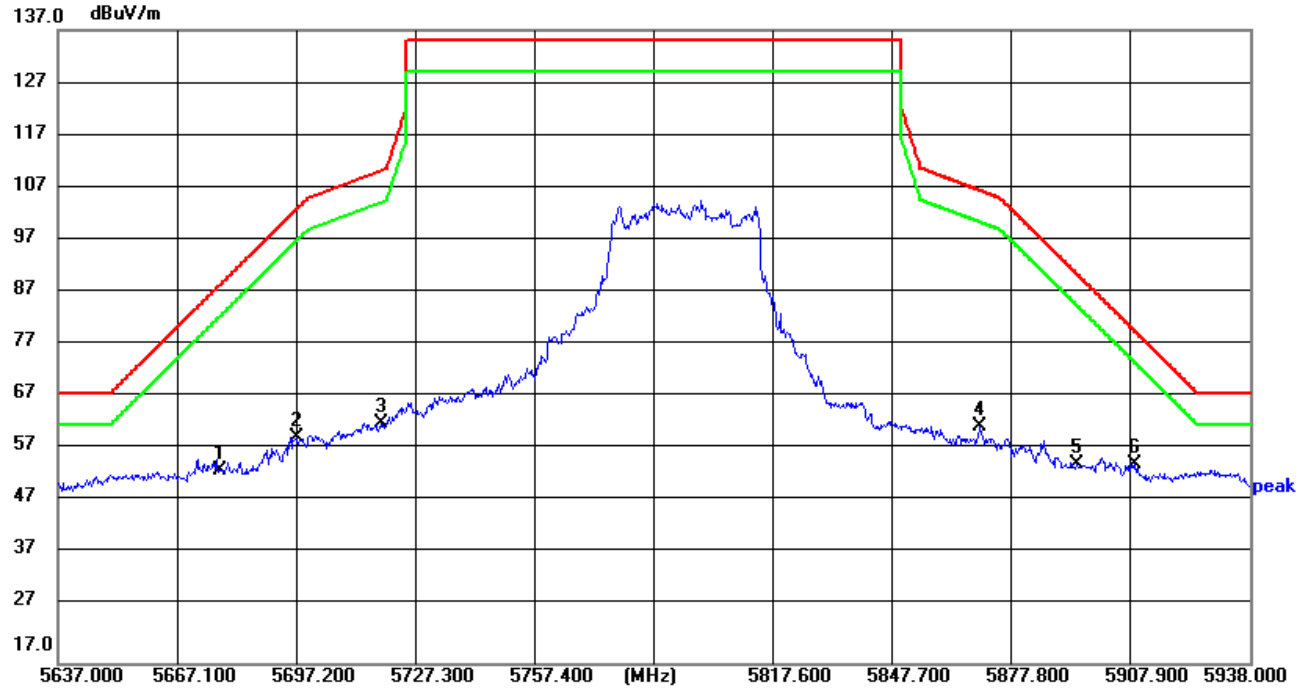
Test frequency:	5795	Polarization:	Horizontal



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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	5668.906	57.74	-4.38	53.36	82.19	-28.83	peak
2	5695.093	64.81	-4.38	60.43	101.57	-41.14	peak
3	5713.454	68.50	-4.37	64.13	108.97	-44.84	peak
4	5870.275	69.36	-4.34	65.02	106.52	-41.50	peak
5	5886.830	65.84	-4.33	61.51	96.45	-34.94	peak
6	5910.007	58.61	-4.33	54.28	79.29	-25.01	peak

Test frequency:	5795	Polarization:	Vertical



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

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	5677.936	58.18	-4.38	53.80	88.87	-35.07	peak
2	5697.200	64.40	-4.38	60.02	103.13	-43.11	peak
3	5718.571	66.99	-4.37	62.62	110.40	-47.78	peak
4	5869.673	66.37	-4.34	62.03	106.69	-44.66	peak
5	5894.355	59.34	-4.33	55.01	90.88	-35.87	peak
6	5909.104	59.12	-4.33	54.79	79.96	-25.17	peak

3.3 Maximum Conducted Average Output Power

Limit

FCC requirement:

For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

(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.

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.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

IC requirement:

Frequency band 5150-5250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 $\log_{10}$B, dBm, whichever is less.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 $\log_{10}$B, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

Frequency band 5250-5350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

a)The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;

b) The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or 11 + 10 log10B, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

Frequency band 5725-5850 MHz

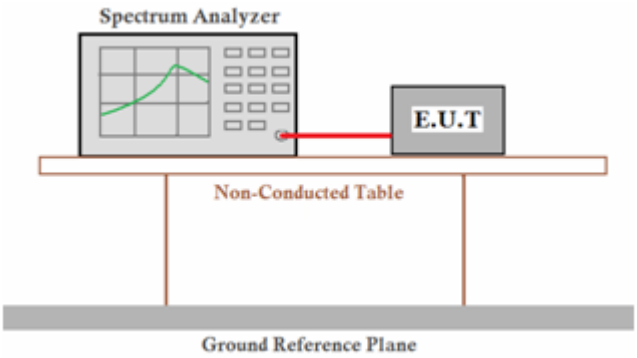
The maximum conducted output power shall not exceed 1 W.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer. Place the EUT on the table and set it in transmitting mode.

Method AVGSA-2 description in ANSI C63.10-2020 12.4.2.4 is used for Duty cycle constant condition.
Method AVGSA-3 description in ANSI C63.10-2020 12.4.2.6 is used for Duty cycle nonconstant condition.

Test Configuration



Note: For Conducted Measurement the final Conducted value (dBm) = Measurement value (dBm) + RF cable loss (dB)(the short RF cable connect EUT antenna port to the test equipment)
For example: the measurement value is 10 dBm and the short RF cable loss 0.5dB used (Provided by Applicant), then the final result of EUT: Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm

Input the cable Compensation value to the test software before test, then the software will calculate the final result automatically.

Test Results

☒ **Pass** ☐ **Not Applicable**

Note:
For test data, please refer to Appendix RF test data for 5G WIFI.

3.4 Power Spectral Density

Limit

FCC requirement:
For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.[note1]

(ii) For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.[note1]

(iii) For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.

(iv) For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band. [note1]

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725 - 5.85 GHz

The maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. [note1, note2]

Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: 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.

IC requirement:

For the band 5.15-5.25 GHz.

The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Frequency band 5250-5350 MHz

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band

Frequency bands 5470-5600 MHz and 5650-5725 MHz

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the band 5.725 - 5.85 GHz

The maximum power spectral density shall not exceed 30 dBm in any 500 kHz band. [note1, note2]

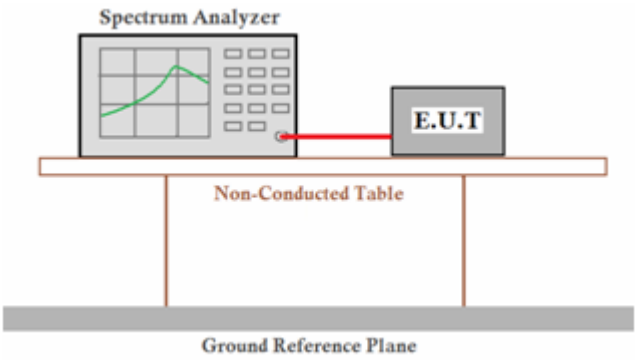
Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: 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.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 1MHz for U-NII 1, U-NII 2A, U-NII C band and 300KHz for U-NII 3 band.
3. Set the VBW ≥ 3× RBW.
4. Set the span to encompass the entire EBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.

Test Configuration



Test Results

☒ **Pass** ☐ **Not Applicable**

Note:
For test data, please refer to Appendix RF test data for 5G WIFI.

3.5 Emission Bandwidth (26dBm Bandwidth)

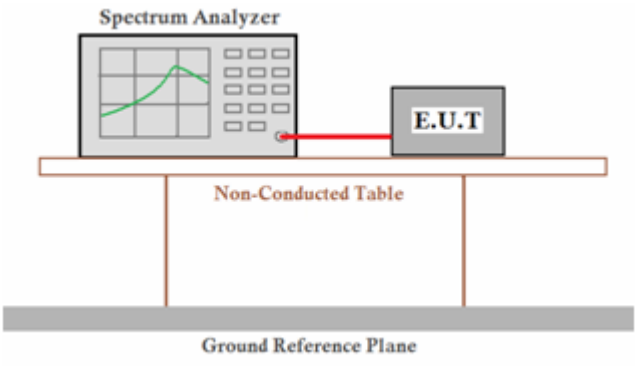
Limit

N/A

Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. 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 analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

Test Configuration



Test Results

☒ **Pass** ☐ **Not Applicable**

Note:
For test data, please refer to Appendix RF test data for 5G WIFI.

3.6 Minimum Emission Bandwidth (6dBm Bandwidth)

Limit

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer. Set EUT in transmitting mode.

a) Set Spectrum Analyzer to OBW measurement mode and set bandwidth mode with X set to 6 dB.

b) RBW = 100kHz.

c) VBW = 300kHz.

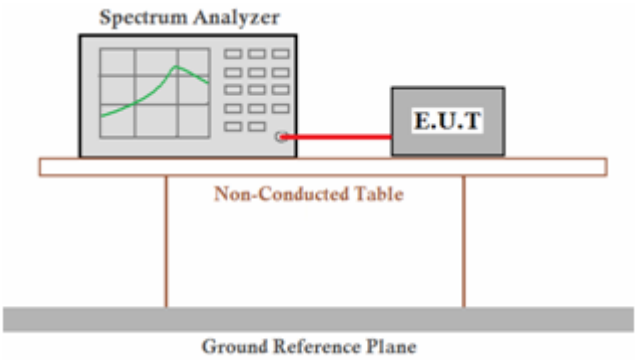
d) Detector = peak.

e) Sweep time = auto couple.

f) Trace mode = max hold.

g) Allow trace to fully stabilize.

Test Configuration



Test Results

☒ **Pass** ☐ **Not Applicable**

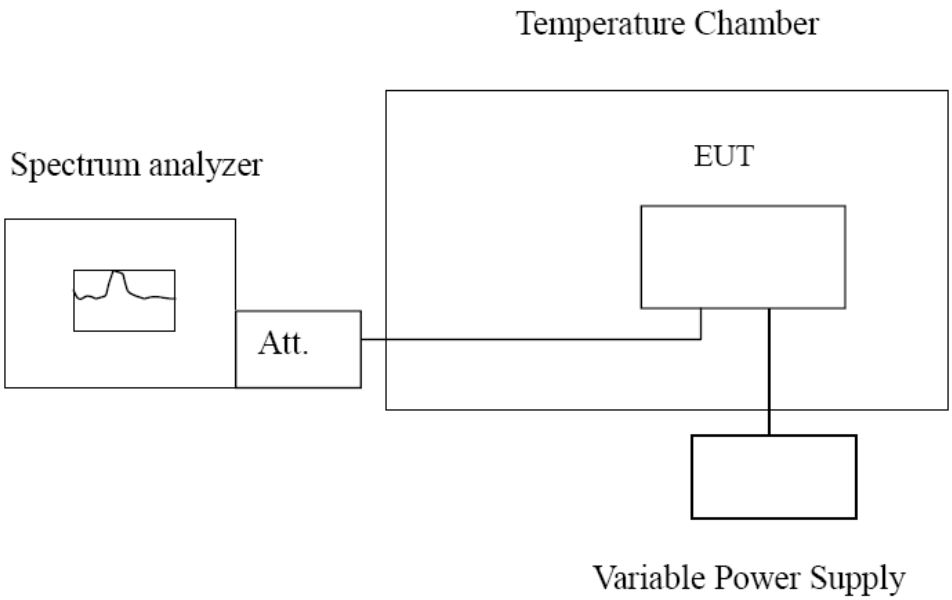
Note:
For test data, please refer to Appendix RF test data for 5G WIFI.

3.7 Frequency Stability

LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

TEST CONFIGURATION



TEST PROCEDURE

Frequency Stability under Temperature Variations:
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

Frequency Stability under Voltage Variations:
Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

TEST RESULTS

☒ **Pass** ☐ **Not Applicable**

Note:
For test data, please refer to Appendix RF test data for 5G WIFI.

3.8 Antenna Requirement

Standard Applicable

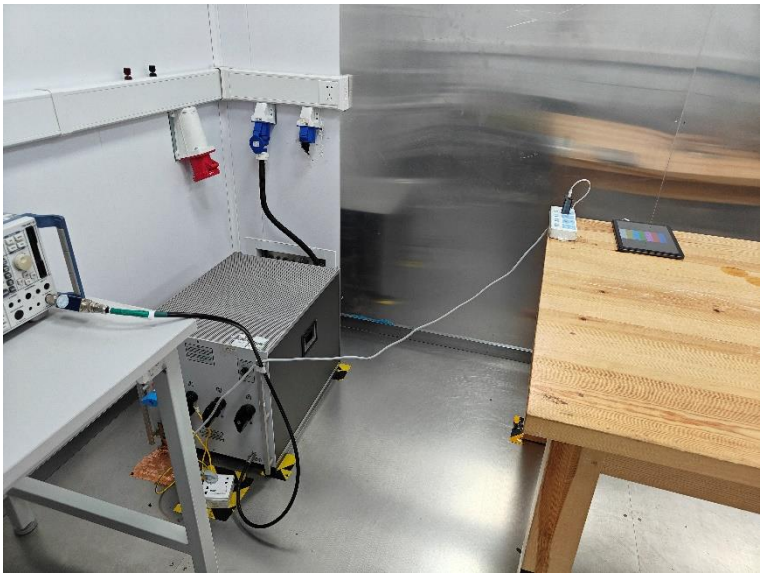
For intentional device, according to FCC 47 CFR Section 15.203:

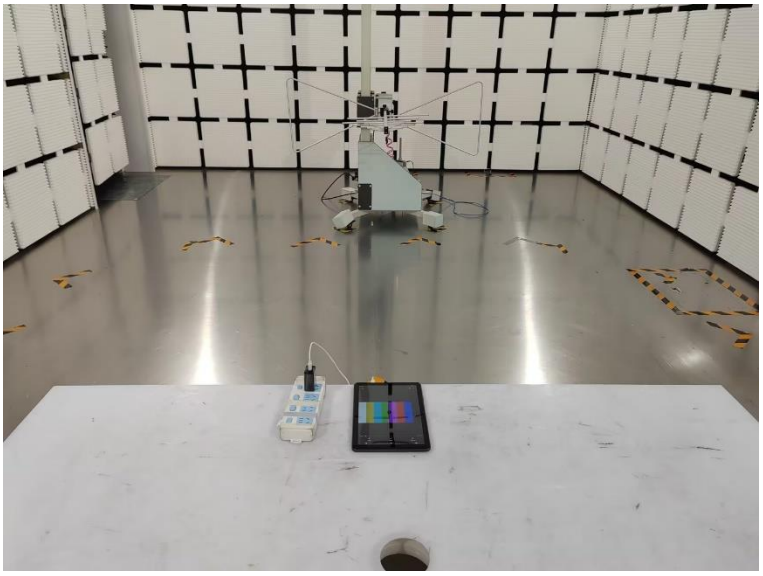
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

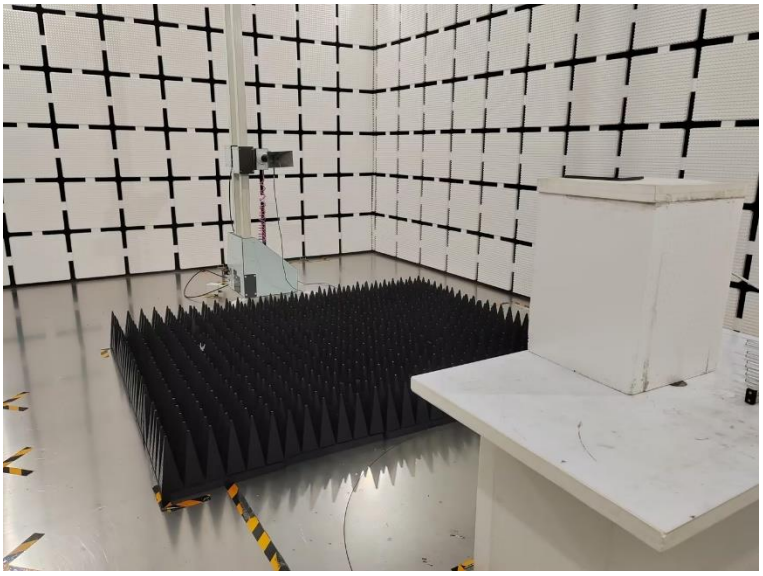
Test Result:

The device used a FPC Antenna, the maximum gain of antenna was 2.2dBi on UNII 1 band and 2.31dBi on UNII 3 band with impedance 50Ω.

4 Test Setup Photographs of EUT







5 Photos of EUT

Please refer to Appendix for EUT PHOTO

**********End of Report**********