

TEST REPORT

Client Information:

Applicant: DOKE COMMUNICATION (HK) LIMITED

Applicant add.: 19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO KONG KL

Report No.: AIT24040901FW15

Manufacturer: Shenzhen DOKE Electronic Co., Ltd

Manufacturer add.: 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road,

Guangming District, Shenzhen, China.

Product Information:

Product Name: Smart phone

Model No.: COLOR 8

Serial Model: MODERN 8

Brand Name: Blackview, OSCAL

Test samples.: AIT24040901-1

FCC ID: 2A7DX-COLOR8

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Prepared By:

Guangdong Asia Hongke Test Technology Limited

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Date of Receipt: Apr. 10, 2024 Date of Test: Apr. 10, 2024 ~ May 11, 2024

Date of Issue: May 11, 2024 Test Result: Pass

This device described above has been tested by Guangdong Asia Hongke Test Technology Limited and the test results show that the equipment under test (EUT) is in compliance with the FCC/ISED requirements. And it is applicable only to the tested sample identified in the report.

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Reviewed by:	Jeon Yi	Approved by:	Sean She	ALT ON SERVICE ON SERV
, -	Leon.yi		Sean She	EST REPORT



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Revision History

Revision	Issue Date	Revisions	Revised By	
000	000 May 11, 2024		Simaba Huang	



2 Test Summary

Test Item	Section in CFR 47	Result
1	On Time and Duty Cycle	/
§15.407(a)	Maximum Conducted Output Power	Pass
§15.407(a)	Power Spectral Density	Pass
§15.407(e)	6dB Bandwidth	Pass
§15.209 §15.407(b)	Radiated Emissions	Pass
§15.20	Emissions at Restricted Band	Pass
§15.407(g)	Frequency Stability	Pass
§15.207(a)	Power Line Conducted Emissions	Pass
§15.203	Antenna Requirements	Pass
§2.1093&§2.1091	RF Exposure	Pass*

Note

- 1. Test according to ANSI C63.10:2013.
- 2. The measurement uncertainty is not included in the test result.
- 3. "*" Test results in other test report (RF Exposure Evaluation Report)

2.1 Statement of the 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 acc. 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 AiT quality system acc. 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.

2.2 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	0.009MHz-30MHz	3.10dB	(1)
Radiated Emission	30MHz-1GHz	3.75dB	(1)
Radiated Emission	1GHz-18GHz	3.88dB	(1)
Radiated Emission	18GHz-40GHz	3.88dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	1.20dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

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.



3 Test Facility

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.

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions

None

3.3 Test Location

Guangdong Asia Hongke Test Technology Limited

Address: B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Tel.: +86 0755-230967639 Fax.: +86 0755-230967639



4 General Information

EUT No.	
EUT Name:	Smart phone
Model No:	COLOR 8
Brand Name:	Blackview,OSCAL
Serial Model:	MODERN 8
Sample(s) Status:	Engineer sample
Operation frequency:	5745MHz-5825MHz
Modulation Technology:	5 channels for 20MHz bandwidth(5745MHz-5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	IEEE 802.11a/n/ac: OFDM(64QAM, 16QAM, QPSK, BPSK)
Antenna Type:	FPC antenna
Antenna gain:	ANT1:1.54dBi
H/W No.:	8121S682A
S/W No.:	COLOR8_EEA_S0610AD_V1.0
Power supply:	DC 3.87V 6000mAh
Adapter:	Adapter Model: HJ-FC001K7-US Input:100-240V 50/60Hz 0.6A Output: 5V 3A 15W ; 9V 2A 18W ;12V 1.5A 18W ;
Model different:	The circuit principle is the same, the model name, brand Name and internal storage is different. COLOR 8 corresponding brand is Blackview; the MODERN 8 brand is OSCA, different camera position compared to the main model.
Note:	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



4.1 Test frequencies

EUT channels and frequencies list:

Frequency Band Channel No.		Frequency (MHz)	Channel No.	Frequency (MHz)
5745~5825MHz	149	5745	155	5775
	151	5755	159	5795
	153	5765	161	5805
	157	5785	165	5825

For IEEE 802.11a/n HT20/ac VHT20, Channel 149, 157 and 165 were tested.

For IEEE 802.11n HT40/ac VHT40, Channel 151 and 159 were tested.

For IEEE 802.11ac VHT80, Channel 155 was tested.

4.2 EUT Peripheral List

ı	No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	Signal cord
	1	Adapter	Shenzhen Huajin Electronics Co., Ltd	N/A	HJ-FC001 K7-US	N/A	N/A	N/A

4.3 Test Peripheral List

1	No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	Signal cord
	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A



4.4 TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Guangdong Asia Hongke Test Technology Limited

4.4.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

4.4.2 EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure 789033 D02 General UNII Test Procedures New Rules v01r03 and KDB 662911 D01 Multiple Transmitter Output v02r01 is required to be used for this kind of FCC 15.407 UII device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E

4.4.3 General Test Procedures

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.



4.5 Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be IEEE 802.11ac VHT20 mode (High Channel, at Antenna Chain1).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be IEEE 802.11ac VHT20 mode (High Channel, at Antenna Chain1).

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case.

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

IEEE 802.11a Mode: 6 Mbps, OFDM.

IEEE 802.11ac VHT20 Mode: MCS0

IEEE 802.11n HT20 Mode: MCS0, OFDM.

IEEE 802.11ac VHT40 Mode: MCS0, OFDM.

IEEE 802.11n HT40 Mode: MCS0, OFDM.

IEEE 802.11ac VHT80 Mode: MCS0, OFDM.

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:

Transmitting mode	Keep the EUT in continuously transmitting mode.					
Test software:			Rf_	Tool		
Frequency	5745 MHz	5785 MHz	5825 MHz			
Parameters(802.11a)	Default	Default	Default			
Parameters(802.11n20)	Default	Default	Default			
Parameters(802.11ac20)	Default	Default	Default			
Frequency	5755 MHz	5795 MHz				
Parameters(802.11n40)	Default	Default				
Parameters(802.11ac40)	Default	Default				
Frequency	5775 MHz					
Parameters(802.11ac80)	Default					







Antenna & Bandwidth

Antenna	Chain 1 (ANT1)			Ch	ain 2 (AN	Simultaneously			
Bandwidth Mode	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz	/		
IEEE 802.11a									
IEEE 802.11n	\square	\square							
IEEE 802.11ac	$\overline{\mathbf{V}}$	$\overline{\mathbf{V}}$	$\overline{\checkmark}$						

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5 Equipment Used during Test

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date	
1	Spectrum Analyzer	R&S	FSV40	101470	2023.09.08	2024.09.07	
2	Spectrum Analyzer	Keysight	N9020A	MY51280643	2023.09.08	2024.09.07	
3	EMI Measuring Receiver	R&S	ESR	101660	2023.09.08	2024.09.07	
4	Low Noise Pre-Amplifier	HP	HP8447E	1937A01855	2023.09.08	2024.09.07	
5	Low Noise Pre-Amplifier	v Noise Pre-Amplifier Tsj MLA-0120-A02-		2648A04738	2023.09.08	2024.09.07	
6	Passive Loop	ETS	6512	00165355	2022.09.04	2024.09.03	
7	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2021.08.29	2024.08.28	
8	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2021.08.29	2024.08.28	
9	SHF-EHF Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA9170367d	2021.08.29	2024.08.28	
10	EMI Measuring Receiver	R&S	2023.09.13	2024.09.12			
11	LISN	SCHWARZBECK	WARZBECK NNLK 8129 8130179		2023.10.29	2024.10.28	
12	Pulse Limiter	R&S	ESH3-Z2	102789	2023.09.13	2024.09.12	
13	Pro.Temp&Humi.chamber	MENTEK	MHP-150-1C	MAA08112501	2023.09.08	2024.09.07	
14	RF Automatic Test system	MW	MW100-RFCB 21033016		2023.09.08	2024.09.07	
15	Signal Generator	Agilent	N5182A	MY50143009	2023.09.08	2024.09.07	
16	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2023.09.08	2024.09.07	
17	RF Automatic Test system	MW	MW100-RFCB	21033016	2023.09.08	2024.09.07	
18	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	N/A	N/A	
19	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A	
20	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A	
21	RF Software	MW	MTS 8310	2.0.0.0	N/A	N/A	
22	temporary antenna connector(Note)	temporary antenna NTS R001 N/A					

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



6 Test results and Measurement Data

6.1 Antenna requirement

6.1.1 Standard requirement:

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

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

According to § 15.203 & RSS-Gen, 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.

6.1.2 EUT Antenna:

The antenna is FPC antenna, the best case gain of the antenna is 1.54dB reference to the Internal photos for details



6.2 On Time and Duty Cycle

6.2.1 Standard requirement:

None; for reporting purpose only

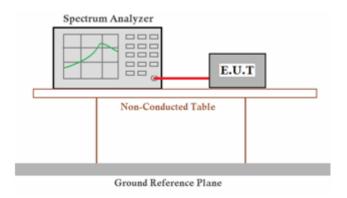
6.2.2 Measuring Instruments and Setting:

Please refer to equipments list in this report. The following table is the setting of the spectrum analyser.

6.2.3 Test Procedures

- 1). Set the Centre frequency of the spectrum analyzer to the transmitting frequency;
- 2). Set the span=0MHz, RBW=8MHz, VBW=50MHz, Sweep time=10.13ms;
- 3). Detector = peak;
- 4). Trace mode = Single hold.

6.2.4 Test Setup Layout



6.2.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.2.6 Test result

For reporting purpose only.

Please refer to Appendix D



6.3 Maximum Conducted Output Power Measurement

6.3.1 Standard requirement:

For 5725~5850MHz

For the band 5.725-5.85 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.

6.3.2 Measuring Instruments:

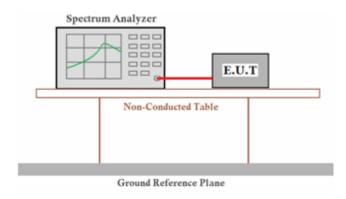
Please refer to equipment list in this report.

6.3.3 Test Procedures:

Method SA-2A uses rms detection with slow sweep with each spectrum bin averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:

- a) Measure the duty cycle D of the transmitter output signal as described in 12.2.
- b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
- c) Set RBW = 1 MHz.
- d) Set VBW \geq 3 MHz.
- e) Number of points in sweep \geq [2 \times span / RBW]. (This gives bin-to-bin spacing \geq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- f) Manually set sweep time \geq [10 \times (number of points in sweep) \times (total ON/OFF period of the transmitted signal)].
- g) Set detector = RMS (power averaging).
- h) Perform a single sweep.
- i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW of the spectrum.
- j) Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1 / 0.25)] = 6 dB if the duty cycle is 25%.

6.3.4 Test Setup Layout



6.3.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.3.6 Test result

PASS

Please refer to Appendix D

Remark:

- 1. Measured output power at difference data rate for each mode and recorded worst case for each mode.
- 2. Test results including cable loss;
- 3. Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80;
- 4. Report conducted power = Measured conducted average power + Duty Cycle factor;



6.4 6dB Bandwidth Measurement

6.4.1 Standard requirement:

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

6.4.2 Measuring Instruments:

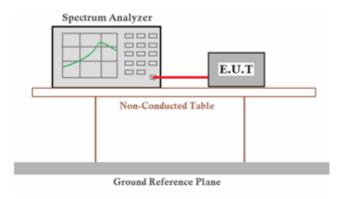
Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span	> 26dB Bandwidth
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.4.3 Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth of 100 KHz and the video bandwidth of 300 KHz were used.
- 3. Measured the spectrum width with power higher than 6dB below carrier.

6.4.4 Test Setup Layout



6.4.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.4.6 Test result

PASS.

Please refer to Appendix D

Remark:

- 1. Measured 6dB bandwidth at difference data rate for each mode and recorded worst case for each mode.
- 2. Test results including cable loss;
- 3. Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40,

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IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80;



6.5 99% Occupied Bandwidth Measurement

6.5.1 Standard requirement:

According to §2.1049: The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable.

6.5.2 Measuring Instruments:

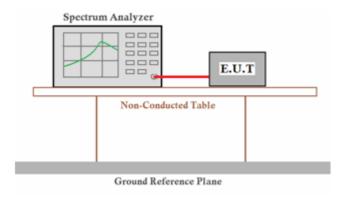
Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

lary 201.						
Spectrum Parameter	Setting					
Attenuation	Auto					
RBW	> RBW					
VBW	Peak					
Span Frequency	Max Hold					
Detector	100ms					

6.5.3 Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. Set RBW = 1%~5% OBW; VBW≥3*RBW;
- 3. Measured the 99% occupied bandwidth by related function of the spectrum analyzer.

6.5.4 Test Setup Layout



6.5.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.5.6 Test result

PASS.



Please refer to Appendix D

Remark:

- 1. Measured 6dB bandwidth at difference data rate for each mode and recorded worst case for each mode.
- 2. Test results including cable loss;
- 3. Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80;



6.6 Power Spectral Density

6.6.1 Standard requirement:

For 5725~5850MHz

For the band 5.725-5.85 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.

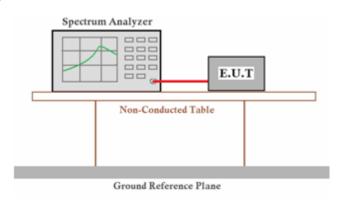
6.6.2 Measuring Instruments and Setting:

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

6.6.3 Test Procedures

Refer to section 6.3.3 (except for i), the spectrograph cancels the channel power mode and changes to the spectrum mode.

6.6.4 Test Setup Layout



6.6.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

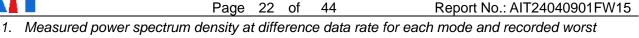
6.6.6 Test result

PASS.

Please refer to Appendix D

Remark:





2. Test results including cable loss;

case for each mode.

- 3. Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80;
- Report conducted PSD = measured conducted PSD + Duty Cycle factor + RBW factor;
 RBW factor = 10 log (500 KHz / 300 KHz) = 2.218 dB;



6.7 Radiated Emissions and Radiation Restricted band Measurement

6.7.1 Standard requirement:

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

^{\1\} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz(68.2dBuV/m at 3m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz(105.2dBuV/m at 3m) 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(110.8dBuV/m at 3m) 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(122.2dBuV/m at 3m) at the band edge.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

IFrequencies	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3

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.

^{\2\} Above 38.6



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	88~216	150	3
	216~960	200	3
	Above 960	500	3

6.7.2 Measuring Instruments and Setting:

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

6.7.3 Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.5 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).



--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

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--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

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3) Sequence of testing 1 GHz to 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

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- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



4) Sequence of testing above 18 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

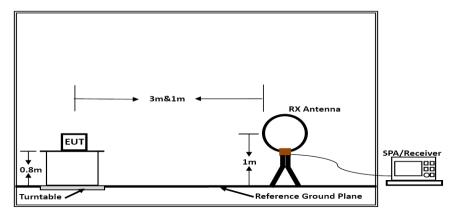
Premeasurement:

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

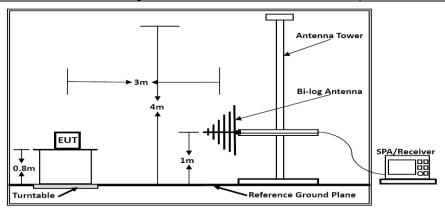
- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

6.7.4 Test Setup Layout



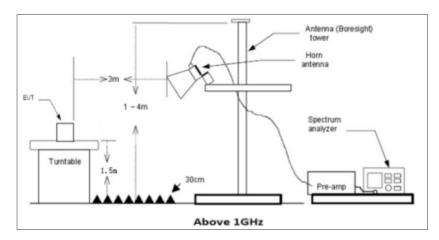
Below 30MHz





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Below 1GHz



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

6.7.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.7.6 Test result

.

Temperature	25.8℃	Humidity	52.5%
Configurations	IEEE 802.11a/n/ac		

Remarks:

- 1. Only the worst case Main Antenna test data.
- 2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ Results of Radiated Emissions (9 KHz~30MHz)





Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

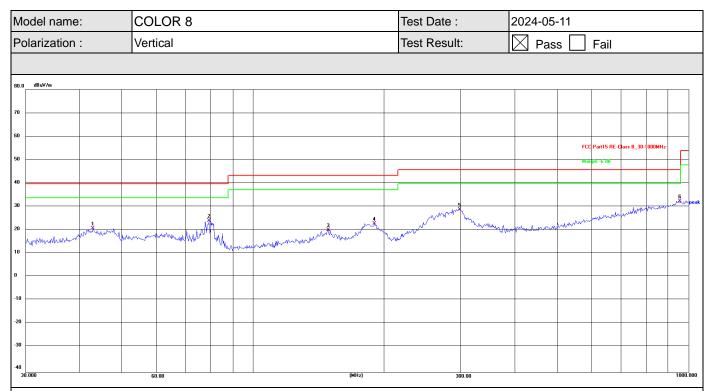
Note:

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

■ Results of Radiated Emissions (30MHz~1GHz)

Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11a).



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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	42.8998	37.65	-16.60	21.05	40.00	-18.95	QP	
2	79.2426	45.17	-20.78	24.39	40.00	-15.61	QP	
3	148.9625	37.09	-16.59	20.50	43.50	-23.00	QP	
4	189.7385	42.57	35 42.57 -19	-19.43	23.14	43.50	-20.36	QP
5	298.2681	46.11	-16.99	29.12	46.00	-16.88	QP	
6 *	955.4381	36.18	-3.49	32.69	46.00	-13.31	QP	



Model name:			COI	LOR	8				Т	est Date :		2024-05-11						
Polarization :			Hori	Horizontal				Т	est Result	:	Pass Fail							
80.0	dBuV/m																	
70																		
60																		
50													FCC	Part15 RE-C	Jass B_30-1	000MHz		
40													Mar	gin -6 dB				
30					3	,		2 4							man	March 1	m.	peak
20	manunaman	w~~**	Mmum	ham	Mund	M.		A CONTRACTOR OF THE CONTRACTOR	WWW	mar mar m	promision of the	- Lander Market	mmm	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
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-20																		
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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	46.3402	38.26	-16.68	21.58	40.00	-18.42	QP
2 *	79.8003	47.20	-20.89	26.31	40.00	-13.69	QP
3	155.9101	40.84	-16.53	24.31	40.00	-15.69	QP
4	185.7882	44.82	-18.98	25.84	40.00	-14.16	QP
5	285.9778	45.37	-17.35	28.02	47.00	-18.98	QP
6	952.0937	36.64	-3.51	33.13	47.00	-13.87	QP



Results for Radiated Emissions (1- 40 GHz)

Note: All the modes have been tested and recorded worst mode in the report. (IEEE 802.11a)

	Band IV(5.725-5.85) GHz									
				Antenna	Orrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limit	Margin		
(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBuV/m)	(dB)	Detector	Comment
				Low Chan	nel (802.11a	a/ 5745 MHz)				
3255.91	44.05	44.70	6.70	28.20	-9.80	34.25	68.20	-33.95	Pk	Vertical
3255.91	41.77	44.70	6.70	28.20	-9.80	31.97	54.00	-22.03	AV	Vertical
3251.28	43.86	44.70	6.70	28.20	-9.80	34.06	68.20	-34.14	Pk	Horizontal
3251.28	41.53	44.70	6.70	28.20	-9.80	31.73	54.00	-22.27	AV	Horizontal
3984.59	38.81	44.20	7.90	29.70	-6.60	32.21	68.20	-35.99	Pk	Vertical
3984.59	35.78	44.20	7.90	29.70	-6.60	29.18	54.00	-24.82	AV	Vertical
3995.98	38.69	44.20	7.90	29.70	-6.60	32.09	68.20	-36.11	Pk	Horizontal
3995.98	36.41	44.20	7.90	29.70	-6.60	29.81	54.00	-24.19	AV	Horizontal
7234.97	37.87	43.50	11.40	35.50	3.40	41.27	68.20	-26.93	Pk	Vertical
7234.97	34.36	43.50	11.40	35.50	3.40	37.76	54.00	-16.24	AV	Vertical
7218.73	36.90	43.50	11.40	35.50	3.40	40.30	68.20	-27.90	Pk	Horizontal
7218.73	34.01	43.50	11.40	35.50	3.40	37.41	54.00	-16.59	AV	Horizontal
10518.11	39.00	44.50	13.90	38.80	8.20	47.20	68.20	-21.00	Pk	Vertical
10518.11	35.91	44.50	13.90	38.80	8.20	44.11	54.00	-9.89	AV	Vertical
10515.22	38.77	44.50	13.90	38.80	8.20	46.97	68.20	-21.23	Pk	Horizontal
10515.22	36.21	44.50	13.90	38.80	8.20	44.41	54.00	-9.59	AV	Horizontal
11490.23	32.99	43.60	14.30	39.50	10.20	43.19	68.20	-25.01	Pk	Vertical
11490.23	30.32	43.60	14.30	39.50	10.20	40.52	54.00	-13.48	AV	Vertical
11490.11	33.10	43.60	14.30	39.50	10.20	43.30	68.20	-24.90	Pk	Horizontal
11490.11	30.81	43.60	14.30	39.50	10.20	41.01	54.00	-12.99	AV	Horizontal
13290.66	32.32	42.60	15.90	38.90	12.20	44.52	68.20	-23.68	Pk	Vertical
13290.66	29.96	42.60	15.90	38.90	12.20	42.16	54.00	-11.84	AV	Vertical
13297.46	31.89	42.60	15.90	38.90	12.20	44.09	68.20	-24.11	Pk	Horizontal
13297.46	29.50	42.60	15.90	38.90	12.20	41.70	54.00	-12.30	AV	Horizontal





Mid Channel (802.11a/ 5785 MHz) 3264.54 44.05 44.70 6.70 28.20 -9.80 34.25 68.20 -33.95 Pk Vertical 44.70 54.00 ΑV 3264.54 41.64 6.70 28.20 -9.80 31.84 -22.16Vertical 3253.02 44.48 44.70 6.70 28.20 -9.80 34.68 68.20 -33.52 Pk Horizontal ΑV 3253.02 41.91 44.70 6.70 28.20 -9.80 32.11 54.00 -21.89 Horizontal 3982.36 39.45 44.20 7.90 29.70 -6.6032.85 68.20 -35.35 Pk Vertical 3982.36 44.20 ΑV 35.69 7.90 29.70 -6.60 29.09 54.00 -24.91 Vertical 3980.62 39.21 44.20 7.90 29.70 -6.6032.61 68.20 -35.59Pk Horizontal 3980.62 36.77 44.20 7.90 29.70 -6.6030.17 54.00 -23.83 ΑV Horizontal 7217.35 37.90 43.50 35.50 11.40 3.40 41.30 68.20 -26.90 Pk Vertical 7217.35 34.25 43.50 11.40 35.50 3.40 37.65 54.00 -16.35ΑV Vertical 7234.78 37.25 43.50 11.40 35.50 3.40 40.65 68.20 -27.55Pk Horizontal ΑV 7234.78 43.50 11.40 35.50 3.40 37.35 54.00 -16.65 Horizontal 33.95 10588.17 38.72 44.50 13.80 38.80 8.10 46.82 68.20 -21.38 Pk Vertical 10588.17 36.73 44.50 13.80 38.80 8.10 44.83 54.00 -9.17 ΑV Vertical 47.70 10595.08 39.60 44.50 13.80 38.80 8.10 68.20 -20.50Pk Horizontal 10595.08 35.74 44.50 13.80 43.84 54.00 -10.16 ΑV 38.80 8.10 Horizontal 11569.96 33.39 43.60 14.30 39.50 10.20 43.59 68.20 -24.61 Pk Vertical 11569.96 30.06 43.60 14.30 39.50 10.20 40.26 54.00 -13.74 ΑV Vertical 11570.33 32.73 14.30 10.20 42.93 Pk 43.60 39.50 68.20 -25.27Horizontal 11570.33 31.08 43.60 14.30 39.50 10.20 41.28 54.00 -12.72ΑV Horizontal 13295.08 31.96 42.60 15.90 38.90 12.20 44.16 68.20 -24.04 Pk Vertical 13295.08 42.60 15.90 38.90 12.20 41.68 54.00 ΑV Vertical 29.48 -12.3213298.18 32.63 42.60 15.90 38.90 12.20 44.83 68.20 -23.37 Pk Horizontal 13298.18 38.90 28.73 42.60 15.90 12.20 40.93 54.00 ΑV -13.07 Horizontal

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				High Char	nel (802.11	/ 5825 MHz)				
3260.45	44.99	44.70	6.70	28.20	-9.80	35.19	68.20	-33.01	Pk	Vertical
3260.45	40.84	44.70	6.70	28.20	-9.80	31.04	54.00	-22.96	AV	Vertical
3259.59	44.52	44.70	6.70	28.20	-9.80	34.72	68.20	-33.48	Pk	Horizontal
3259.59	41.14	44.70	6.70	28.20	-9.80	31.34	54.00	-22.66	AV	Horizontal
3994.90	39.46	44.20	7.90	29.70	-6.60	32.86	68.20	-35.34	Pk	Vertical
3994.90	35.79	44.20	7.90	29.70	-6.60	29.19	54.00	-24.81	AV	Vertical
3984.32	38.92	44.20	7.90	29.70	-6.60	32.32	68.20	-35.88	Pk	Horizontal
3984.32	37.00	44.20	7.90	29.70	-6.60	30.40	54.00	-23.60	AV	Horizontal
7230.95	37.02	43.50	11.40	35.50	3.40	40.42	68.20	-27.78	Pk	Vertical
7230.95	34.70	43.50	11.40	35.50	3.40	38.10	54.00	-15.90	AV	Vertical
7225.56	37.23	43.50	11.40	35.50	3.40	40.63	68.20	-27.57	Pk	Horizontal
7225.56	34.82	43.50	11.40	35.50	3.40	38.22	54.00	-15.78	AV	Horizontal
10623.48	39.86	44.50	13.80	38.80	8.10	47.96	68.20	-20.24	Pk	Vertical
10623.48	36.00	44.50	13.80	38.80	8.10	44.10	54.00	-9.90	AV	Vertical
10640.38	39.06	44.50	13.80	38.80	8.10	47.16	68.20	-21.04	Pk	Horizontal
10640.38	35.68	44.50	13.80	38.80	8.10	43.78	54.00	-10.22	AV	Horizontal
11650.10	33.01	43.60	14.30	39.50	10.20	43.21	68.20	-24.99	Pk	Vertical
11650.10	29.97	43.60	14.30	39.50	10.20	40.17	54.00	-13.83	AV	Vertical
11650.32	34.04	43.60	14.30	39.50	10.20	44.24	68.20	-23.96	Pk	Horizontal
11650.32	30.12	43.60	14.30	39.50	10.20	40.32	54.00	-13.68	AV	Horizontal
13298.11	32.36	42.70	18.00	37.10	12.40	44.76	68.20	-23.44	Pk	Vertical
13298.11	29.01	42.70	18.00	37.10	12.40	41.41	54.00	-12.59	AV	Vertical
13284.24	32.52	42.70	18.00	37.10	12.40	44.92	68.20	-23.28	Pk	Horizontal
13284.24	29.04	42.70	18.00	37.10	12.40	41.44	54.00	-12.56	AV	Horizontal

Notes:

- 1). Measuring frequencies from 9 KHz ~ 40GHz, No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz ~ 40GHz were made with an instrument using Peak detector mode.
- 3). 18~40GHz at least have 20dB margin. No recording in the test report.
- 4). Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11a VHT20, IEEE 802.11ac VHT40, IEEE 802.11ac VHT80;
- 5). Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 6). Margin= Emission Level Limit





Second	Vertical Vertical Horizontal Vertical Vertical Vertical Vertical
Frequency (MHz) Reading (dBμV) Amplifier (dB) Loss (dB) Factor (dB) Level (dBμV/m) Limits (dBμV/m) Margin (dB) Detector (dBμV/m) (MHz) 802.11a BW20MHz 5725 39.14 44.20 10.00 32.00 -2.20 36.94 68.2 -31.26 Peak 5725 28.49 44.20 10.00 32.00 -2.20 26.29 54 -27.71 AVG 5725 38.25 44.20 10.00 32.00 -2.20 36.05 68.2 -32.15 Peak 5725 30.08 44.20 10.00 32.00 -2.20 27.88 54 -26.12 AVG 5850 43.01 44.20 10.20 32.00 -2.00 28.72 54 -25.28 AVG 5850 38.24 44.20 10.20 32.00 -2.00 28.72 54 -25.28 AVG 5850 31.72 44.20 10.20 32.00 -2.00	Vertical Vertical Horizontal Horizontal Vertical Vertical Horizontal
(MHz) (dBμV) (dB) (dB/m) (dB) (dBμV/m) (dBμV/m) (dBμV/m) (dB) Type 802.11a BW20MHz 5725 39.14 44.20 10.00 32.00 -2.20 36.94 68.2 -31.26 Peak 5725 28.49 44.20 10.00 32.00 -2.20 26.29 54 -27.71 AVG 5725 38.25 44.20 10.00 32.00 -2.20 36.05 68.2 -32.15 Peak 5725 30.08 44.20 10.00 32.00 -2.20 27.88 54 -26.12 AVG 5850 43.01 44.20 10.20 32.00 -2.00 41.01 68.2 -27.19 Peak 5850 30.72 44.20 10.20 32.00 -2.00 28.72 54 -25.28 AVG 5850 31.72 44.20 10.20 32.00 -2.00 29.72 54 -24.28 AVG <	Vertical Vertical Horizontal Horizontal Vertical Vertical Horizontal
802.11a BW20MHz 5725	Vertical Horizontal Vertical Vertical Horizontal
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5725 28.49 44.20 10.00 32.00 -2.20 26.29 54 -27.71 AVG 5725 38.25 44.20 10.00 32.00 -2.20 36.05 68.2 -32.15 Peak 5725 30.08 44.20 10.00 32.00 -2.20 27.88 54 -26.12 AVG 5850 43.01 44.20 10.20 32.00 -2.00 41.01 68.2 -27.19 Peak 5850 30.72 44.20 10.20 32.00 -2.00 28.72 54 -25.28 AVG 5850 38.24 44.20 10.20 32.00 -2.00 36.24 68.2 -31.96 Peak 5850 31.72 44.20 10.20 32.00 -2.00 29.72 54 -24.28 AVG 5725 39.81 44.20 10.00 32.00 -2.20 37.61 68.2 -30.59 Peak 5725 38.97 44.20	Vertical Horizontal Vertical Vertical Horizontal
5725 38.25 44.20 10.00 32.00 -2.20 36.05 68.2 -32.15 Peak 5725 30.08 44.20 10.00 32.00 -2.20 27.88 54 -26.12 AVG 5850 43.01 44.20 10.20 32.00 -2.00 41.01 68.2 -27.19 Peak 5850 30.72 44.20 10.20 32.00 -2.00 28.72 54 -25.28 AVG 5850 38.24 44.20 10.20 32.00 -2.00 36.24 68.2 -31.96 Peak 5850 31.72 44.20 10.20 32.00 -2.00 29.72 54 -24.28 AVG 802.11n BW20MHz 5725 39.81 44.20 10.00 32.00 -2.20 37.61 68.2 -30.59 Peak 5725 38.97 44.20 10.00 32.00 -2.20 25.45 54 -28.55 AVG	Horizontal Horizontal Vertical Vertical Horizontal
5725 30.08 44.20 10.00 32.00 -2.20 27.88 54 -26.12 AVG 5850 43.01 44.20 10.20 32.00 -2.00 41.01 68.2 -27.19 Peak 5850 30.72 44.20 10.20 32.00 -2.00 28.72 54 -25.28 AVG 5850 38.24 44.20 10.20 32.00 -2.00 36.24 68.2 -31.96 Peak 5850 31.72 44.20 10.20 32.00 -2.00 29.72 54 -24.28 AVG 802.11n BW20MHz 802.11n BW20MHz 5725 39.81 44.20 10.00 32.00 -2.20 37.61 68.2 -30.59 Peak 5725 27.65 44.20 10.00 32.00 -2.20 25.45 54 -28.55 AVG 5725 38.97 44.20 10.00 32.00 -2.20 36.77 68.2	Horizontal Vertical Vertical Horizontal
5850 43.01 44.20 10.20 32.00 -2.00 41.01 68.2 -27.19 Peak 5850 30.72 44.20 10.20 32.00 -2.00 28.72 54 -25.28 AVG 5850 38.24 44.20 10.20 32.00 -2.00 36.24 68.2 -31.96 Peak 5850 31.72 44.20 10.20 32.00 -2.00 29.72 54 -24.28 AVG 802.11n BW20MHz 5725 39.81 44.20 10.00 32.00 -2.20 37.61 68.2 -30.59 Peak 5725 27.65 44.20 10.00 32.00 -2.20 25.45 54 -28.55 AVG 5725 38.97 44.20 10.00 32.00 -2.20 36.77 68.2 -31.43 Peak 5725 30.75 44.20 10.00 32.00 -2.20 28.55 54 -25.45 AVG	Vertical Vertical Horizontal
5850 30.72 44.20 10.20 32.00 -2.00 28.72 54 -25.28 AVG 5850 38.24 44.20 10.20 32.00 -2.00 36.24 68.2 -31.96 Peak 5850 31.72 44.20 10.20 32.00 -2.00 29.72 54 -24.28 AVG 802.11n BW20MHz 5725 39.81 44.20 10.00 32.00 -2.20 37.61 68.2 -30.59 Peak 5725 27.65 44.20 10.00 32.00 -2.20 25.45 54 -28.55 AVG 5725 38.97 44.20 10.00 32.00 -2.20 36.77 68.2 -31.43 Peak 5725 30.75 44.20 10.00 32.00 -2.20 28.55 54 -25.45 AVG 5850 43.34 44.20 10.20 32.00 -2.00 41.34 68.2 -26.86 Peak	Vertical Horizontal
5850 38.24 44.20 10.20 32.00 -2.00 36.24 68.2 -31.96 Peak 5850 31.72 44.20 10.20 32.00 -2.00 29.72 54 -24.28 AVG 802.11n BW20MHz 5725 39.81 44.20 10.00 32.00 -2.20 37.61 68.2 -30.59 Peak 5725 27.65 44.20 10.00 32.00 -2.20 25.45 54 -28.55 AVG 5725 38.97 44.20 10.00 32.00 -2.20 36.77 68.2 -31.43 Peak 5725 30.75 44.20 10.00 32.00 -2.20 28.55 54 -25.45 AVG 5850 43.34 44.20 10.20 32.00 -2.00 41.34 68.2 -26.86 Peak 5850 39.24 44.20 10.20 32.00 -2.00 37.24 68.2 -30.96 Peak	Horizontal
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5725 27.65 44.20 10.00 32.00 -2.20 25.45 54 -28.55 AVG 5725 38.97 44.20 10.00 32.00 -2.20 36.77 68.2 -31.43 Peak 5725 30.75 44.20 10.00 32.00 -2.20 28.55 54 -25.45 AVG 5850 43.34 44.20 10.20 32.00 -2.00 41.34 68.2 -26.86 Peak 5850 27.61 44.20 10.20 32.00 -2.00 25.61 54 -28.39 AVG 5850 39.24 44.20 10.20 32.00 -2.00 37.24 68.2 -30.96 Peak 5850 29.79 44.20 10.20 32.00 -2.00 27.79 54 -26.21 AVG	
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5725 30.75 44.20 10.00 32.00 -2.20 28.55 54 -25.45 AVG 5850 43.34 44.20 10.20 32.00 -2.00 41.34 68.2 -26.86 Peak 5850 27.61 44.20 10.20 32.00 -2.00 25.61 54 -28.39 AVG 5850 39.24 44.20 10.20 32.00 -2.00 37.24 68.2 -30.96 Peak 5850 29.79 44.20 10.20 32.00 -2.00 27.79 54 -26.21 AVG	Vertical
5850 43.34 44.20 10.20 32.00 -2.00 41.34 68.2 -26.86 Peak 5850 27.61 44.20 10.20 32.00 -2.00 25.61 54 -28.39 AVG 5850 39.24 44.20 10.20 32.00 -2.00 37.24 68.2 -30.96 Peak 5850 29.79 44.20 10.20 32.00 -2.00 27.79 54 -26.21 AVG	Horizontal
5850 27.61 44.20 10.20 32.00 -2.00 25.61 54 -28.39 AVG 5850 39.24 44.20 10.20 32.00 -2.00 37.24 68.2 -30.96 Peak 5850 29.79 44.20 10.20 32.00 -2.00 27.79 54 -26.21 AVG	Horizontal
5850 39.24 44.20 10.20 32.00 -2.00 37.24 68.2 -30.96 Peak 5850 29.79 44.20 10.20 32.00 -2.00 27.79 54 -26.21 AVG	Vertical
5850 29.79 44.20 10.20 32.00 -2.00 27.79 54 -26.21 AVG	Vertical
	Horizontal
802.11n BW40MHz	Horizontal
5725 41.58 44.20 10.00 32.00 -2.20 39.38 68.2 -28.82 Peak	Vertical
5725 29.34 44.20 10.00 32.00 -2.20 27.14 54 -26.86 AVG	Vertical
5725 41.98 44.20 10.00 32.00 -2.20 39.78 68.2 -28.42 Peak	Horizontal
5725 31.63 44.20 10.00 32.00 -2.20 29.43 54 -24.57 AVG	Horizontal
5850 46.17 44.20 10.20 32.00 -2.00 44.17 68.2 -24.03 Peak	Vertical
5850 27.69 44.20 10.20 32.00 -2.00 25.69 54 -28.31 AVG	Vertical
5850 40.43 44.20 10.20 32.00 -2.00 38.43 68.2 -29.77 Peak	Horizontal
5850 29.82 44.20 10.20 32.00 -2.00 27.82 54 -26.18 AVG	Horizontal
802.11ac BW20MHz	
5725 40.76 44.20 10.00 32.00 -2.20 38.56 68.2 -29.64 Peak	Vertical
5725 29.73 44.20 10.00 32.00 -2.20 27.53 54 -26.47 AVG	Vertical
5725 39.77 44.20 10.00 32.00 -2.20 37.57 68.2 -30.63 Peak	Horizontal
5725 27.64 44.20 10.00 32.00 -2.20 25.44 54 -28.56 AVG	Horizontal
5850 43.08 44.20 10.20 32.00 -2.00 41.08 68.2 -27.12 Peak	Tionzoniai

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.



A	Page 36 of 44 Report No						No.: AIT2	24040901F	W15_	
5850	30.22	44.20	10.20	32.00	-2.00	28.22	54	-25.78	AVG	Vertical
5850	37.70	44.20	10.20	32.00	-2.00	35.70	68.2	-32.50	Peak	Horizontal
5850	30.87	44.20	10.20	32.00	-2.00	28.87	54	-25.13	AVG	Horizontal
802.11ac BW40MHz										
5725	39.36	44.20	10.00	32.00	-2.20	37.16	68.2	-31.04	Peak	Vertical
5725	29.23	44.20	10.00	32.00	-2.20	27.03	54	-26.97	AVG	Vertical
5725	38.60	44.20	10.00	32.00	-2.20	36.40	68.2	-31.80	Peak	Horizontal
5725	28.39	44.20	10.00	32.00	-2.20	26.19	54	-27.81	AVG	Horizontal
5850	44.85	44.20	10.20	32.00	-2.00	42.85	68.2	-25.35	Peak	Vertical
5850	28.21	44.20	10.20	32.00	-2.00	26.21	54	-27.79	AVG	Vertical
5850	38.63	44.20	10.20	32.00	-2.00	36.63	68.2	-31.57	Peak	Horizontal
5850	28.12	44.20	10.20	32.00	-2.00	26.12	54	-27.88	AVG	Horizontal
				802.	11ac BW80N	ЛHz				
5725	41.95	44.20	10.00	32.00	-2.20	39.75	68.2	-28.45	Peak	Vertical
5725	31.83	44.20	10.00	32.00	-2.20	29.63	54	-24.37	AVG	Vertical
5725	38.76	44.20	10.00	32.00	-2.20	36.56	68.2	-31.64	Peak	Horizontal
5725	30.77	44.20	10.00	32.00	-2.20	28.57	54	-25.43	AVG	Horizontal
5850	46.00	44.20	10.20	32.00	-2.00	44.00	68.2	-24.20	Peak	Vertical
5850	30.85	44.20	10.20	32.00	-2.00	28.85	54	-25.15	AVG	Vertical
5850	40.42	44.20	10.20	32.00	-2.00	38.42	68.2	-29.78	Peak	Horizontal
5850	30.09	44.20	10.20	32.00	-2.00	28.09	54	-25.91	AVG	Horizontal

Remarks:

- 1). Margin= Emission Level Limit
- 2). Emission Level = Reading + Factor
- 3). Factor = Antenna Factor + Cable Loss Pre-amplifie

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6.8 Power Line Conducted Emissions

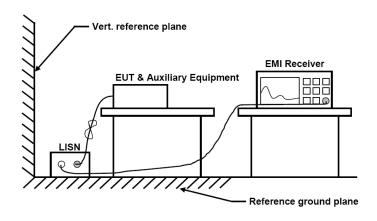
6.8.1 Standard requirement:

According to §15.207 (a): For an intentional radiator which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range	Limits (dBμV)			
(MHz)	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

^{*} Decreasing linearly with the logarithm of the frequency

6.8.2 Test Setup Layout



6.8.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.8.4 Test Procedures

The transmitter output is connected to EMI receiver. The resolution bandwidth is set to 9 kHz. The video bandwidth is set to 30 kHz, Sweep time=Auto

The spectrum from 150 kHz to 30MHz is investigated with the transmitter set to the lowest, middle, and highest channels.

6.8.5 Test result

PASS

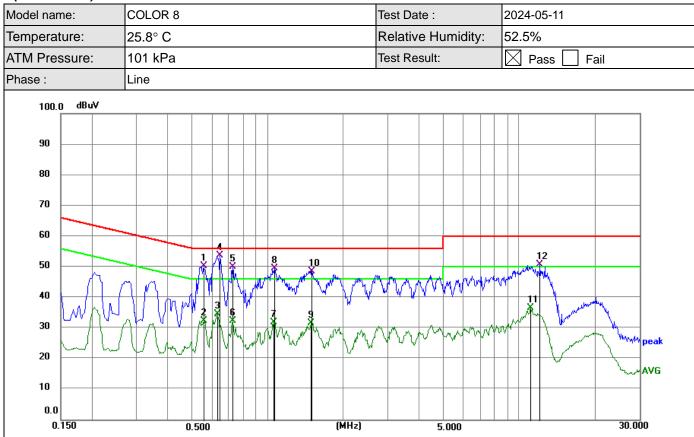
The test data please refer to following page.

Report No.: AIT24040901FW15



Measurement data:

AC Conducted Emission of charge from Adapter mode @ AC 120V/60Hz @ (IEEE 802.11ac VHT20) (worst case)



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	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.5550	39.66	10.68	50.34	56.00	-5.66	QP
2	0.5595	21.69	10.68	32.37	46.00	-13.63	AVG
3	0.6315	24.02	10.68	34.70	46.00	-11.30	AVG
4	0.6450	43.11	10.68	53.79	56.00	-2.21	QP
5	0.7260	39.26	10.67	49.93	56.00	-6.07	QP
6	0.7260	21.72	10.67	32.39	46.00	-13.61	AVG
7	1.0545	21.31	10.66	31.97	46.00	-14.03	AVG
8	1.0635	38.88	10.66	49.54	56.00	-6.46	QP
9	1.4865	20.81	10.71	31.52	46.00	-14.48	AVG
10	1.5000	37.91	10.71	48.62	56.00	-7.38	QP
11	11.0940	25.38	11.19	36.57	50.00	-13.43	AVG
12	12.1200	39.54	11.28	50.82	60.00	-9.18	QP





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Report No.: AIT24040901FW15



el name:	COLOR 8	Test Date :	2024-05-11
perature:	25.8° C	Relative Humidity:	52.5%
1 Pressure:	101 kPa	Test Result:	Pass Fail
se:	Neutral		
100.0 dBuV			
90			
80			
70			
60	3		
50	2 1 6 7	9	11
40			12
30			Mr. \. \. \. \. \.
20	V 0 V 1		AVG
0.0			
0.150	0.500	(MHz) 5.000	30.000

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	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2085	27.06	10.69	37.75	53.26	-15.51	AVG
2	0.5505	39.10	10.68	49.78	56.00	-6.22	QP
3	0.6090	23.35	10.68	34.03	46.00	-11.97	AVG
4	0.6360	42.48	10.67	53.15	56.00	-2.85	QP
5	0.6360	26.43	10.67	37.10	46.00	-8.90	AVG
6	0.7170	39.25	10.66	49.91	56.00	-6.09	QP
7	1.0590	37.83	10.65	48.48	56.00	-7.52	QP
8	1.0590	23.06	10.65	33.71	46.00	-12.29	AVG
9	1.4910	37.88	10.71	48.59	56.00	-7.41	QP
10	1.4910	22.64	10.71	33.35	46.00	-12.65	AVG
11	11.9310	37.99	11.24	49.23	60.00	-10.77	QP
12	12.3855	22.31	11.28	33.59	50.00	-16.41	AVG

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



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6.9 Frequency Stability

6.9.1 Standard requirement:

According to FCC §15.407(g) "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."

According to FCC §2.1055(a) "The frequency stability shall be measured with variation of ambient temperature as follows:"

- (1) From −30° to + 50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.
- (2) From -20° to + 50° centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.
- (3) From 0° to + 50° centigrade for equipment to be licensed for use in the Radio Broadcast Services under part 73 of this chapter.

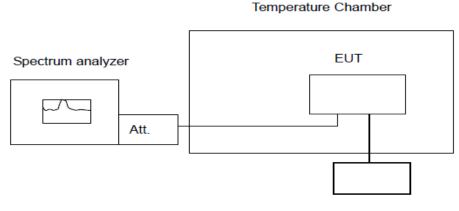
6.9.2 Measuring Instruments and Setting:

Please refer to equipment list in this report.

6.9.3 Test Procedures

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 anzlyer via feed through attenators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low engouh to obtain the desired frequency resoluation and measure EUT 20 degree operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 degree. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure wuth 10 degree increased per stage until the highest temperature of +50 degree reached.

6.9.4 Test Setup Layout



Variable Power Supply

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6.9.5 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.9.6 Test result

PASS

Please refer to Appendix D

Remark:

1. Measured all conditions and recorded worst case.



7 Test Setup Photographs of EUT

Please refer to separated files for Test Setup Photos of the EUT.

8 External Photographs of EUT

Please refer to separated files for External Photos of the EUT.

9 Internal Photographs of EUT

Please refer to separated files for Internal Photos of the EUT.

-----End-----