



FCC TEST REPORT

Test report
On Behalf of
Shenzhen CAMA Biometrics Co., Ltd.
For

Face Recognition Access Control Terminal Model No.: CAMA-GA200T, CAMA-GA200 Series

FCC ID: 2AYBFCAMA-GA200T

Prepared for: Shenzhen CAMA Biometrics Co., Ltd.

Rm No. 23, 5/F, Block B, 10Bldg, Shenzhen Bay Eco-Technology Park, Nanshan,

Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

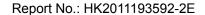
1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,

Bao'an District, Shenzhen City, China

Date of Test: Nov. 20, 2020 ~ Nov. 27, 2020

Date of Report: Nov. 27, 2020

Report Number: HK2011193592-2E





TEST RESULT CERTIFICATION

Rm No. 23, 5/F, Block B, 10Bldg, Shenzhen Bay Eco-Technology Address:

Park, Nanshan, Shenzhen, China

Manufacture's Name...... Shenzhen CAMA Biometrics Co., Ltd.

Rm No. 23, 5/F, Block B, 10Bldg, Shenzhen Bay Eco-Technology Address

Park, Nanshan, Shenzhen, China

Product description

Trade Mark: **CAMABIO**

Product name...... Face Recognition Access Control Terminal

Model and/or type reference :: CAMA-GA200T, CAMA-GA200 Series

FCC Rules and Regulations Part 15 Subpart C Section 15.407 Standards:

ANSI C63.10: 2013

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Date of Test

Date (s) of performance of tests: Nov. 20, 2020 ~ Nov. 27, 2020

Date of Issue....: Nov. 27, 2020

Test Result....: **Pass**

Prepared by:

Reviewed by:

Project Supervisor

Approved by:

Technical Director



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** Modifited History **

Revison	Description	Issued Data	Remark
Revsion 1.0	Initial Test Report Release	Nov. 27, 2020	Jason Zhou





1. Test Result Summary

1.1. TEST PROCEDURES AND RESULTS

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

Note:

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

1.2. TEST FACILITY

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai

Street, Bao'an District, Shenzhen City, China

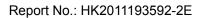




1.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, 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 %.

No.	Item	MU
1	Conducted Emission	±2.71dB
2	RF power, conducted	±0.37dB
3	Spurious emissions, conducted	±2.2dB
4	All emissions, radiated(<1G)	±3.90dB
5	All emissions, radiated(>1G)	±4.28dB

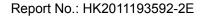




2. EUT Description

2.1. GENERAL DESCRIPTION OF EUT

Equipment	Face Recognition Access Control Terminal
Model Name	CAMA-GA200T
Serial No.	CAMA-GA200 Series
Trade Mark	CAMABIO
Model Difference	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: CAMA-GA200T
FCC ID	2AYBFCAMA-GA200T
Operation Frequency:	IEEE 802.11a/n/ac(HT20) 5.180GHz-5.240GHz IEEE 802.11n/ac(HT40) 5.190GHz-5.230GHz IEEE 802.11ac(HT80) 5.210GHz
Modulation Technology:	IEEE 802.11a/n/ac
Modulation Type	OFDM
Antenna Type	Internal Antenna
Antenna Gain	1dBi
Power Source	DC 9V 2A from Adapter with AC 100-240V, 50/60Hz
Power Supply:	DC 9V 2A from Adapter with AC 100-240V, 50/60Hz





2.2. Operation Frequency each of channel

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

Note:

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

2.3. Operation of EUT during testing

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

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

For 802.11n (HT40)/ ac(HT40)

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

For 802.11ac(HT80)

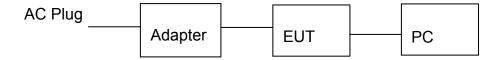
Band I (5150 - 5250 MHz)			
Channel Number	Frequency (MHz)		
42	5210		





2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and below 1GHz Radiation testing:



Operation of EUT during Above1GHz Radiation testing:



PC information Model:TP00067A

Input: DC20V, 2.25-3.25A Output: 5VDC, 0.5A

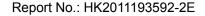
Adapter information

Model: 0920

Input: AC100-240V, 50/60Hz

Output: 9V, 2A

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





3. Genera Information

3.1. Test environment and mode

Operating Environment:				
Temperature:	25.0 °C			
Humidity:	56 % RH			
Atmospheric Pressure:	1010 mbar			
Test Mode:				
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)			

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

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it

was worst case.			
Mode	Data rate		
802.11a	6 Mbps		
802.11n(HT20)	MCS0		
802.11n(HT40)	MCS0		
802.11ac(HT20)/ac(HT40)/ac(HT80)	MCS0		
Final Test Mode:			
Operation mode:	Keep the EUT in continuous transmitting		

with modulation





3.2. Description of Support Units

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

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	1	1	1	1

Note:

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



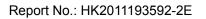


4. Test Results and Measurement Data

4.1. Conducted Emission

4.1.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207			
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	150 kHz to 30 MHz			
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
-		· '			
	Frequency range	Limit (c	,		
Limits:	(MHz)	Quasi-peak	Average		
Limits:	0.15-0.5 0.5-5	66 to 56* 56	56 to 46* 46		
	5-30	60	50		
	5-30	00	50		
	Reference	80cm LISN			
Test Setup:	Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Tx Mode				
Test Procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 				
Test Result:	PASS				

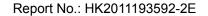




4.1.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Receiver	R&S	ESCI 7	HKE-010	Dec. 26, 2019	Dec. 25, 2020	
LISN	R&S	ENV216	HKE-002	Dec. 26, 2019	Dec. 25, 2020	
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Dec. 26, 2019	Dec. 25, 2020	
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A	

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

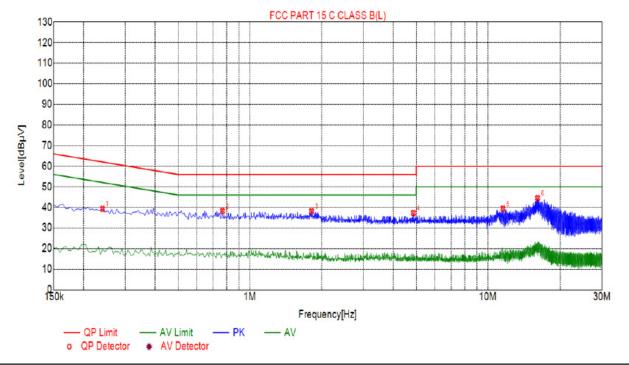




Test data

All the test modes completed for test. only the worst result of (802.11a at 5180MHz) was reported

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.2400	39.29	20.03	62.10	22.81	19.26	PK	L
2	0.7665	38.22	20.05	56.00	17.78	18.17	PK	L
3	1.8150	38.18	20.14	56.00	17.82	18.04	PK	L
4	4.8660	37.29	20.26	56.00	18.71	17.03	PK	L
5	11.5665	39.39	20.00	60.00	20.61	19.39	PK	L
6	16.0710	44.56	19.98	60.00	15.44	24.58	PK	L

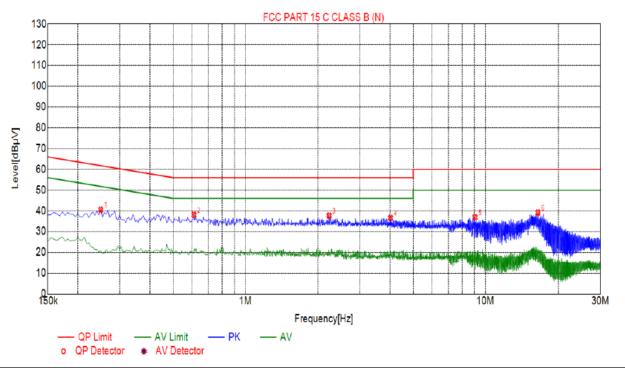
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor





Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.2490	40.50	20.04	61.79	21.29	20.46	PK	N	
2	0.6090	38.11	20.05	56.00	17.89	18.06	PK	N	
3	2.2335	37.69	20.17	56.00	18.31	17.52	PK	N	
4	4.0245	36.56	20.25	56.00	19.44	16.31	PK	N	
5	9.0555	36.91	20.11	60.00	23.09	16.80	PK	N	
6	16.4490	39.16	19.99	60.00	20.84	19.17	PK	N	

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

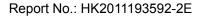




4.2. Maximum Conducted Output Power

4.2.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)				
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E				
Limit:	Frequency Band (MHz)	Limit			
	5150-5250	250mW for client devices			
Test Setup:					
	Power meter	EUT			
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power and record the results in the test report. 				
Test Result:	PASS				
Remark:	Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power				





4.2.2. Test Instruments

	RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 26, 2019	Dec. 25, 2020		
Power meter	Agilent	E4419B	HKE-085	Dec. 26, 2019	Dec. 25, 2020		
Power Sensor	Agilent	E9300A	HKE-086	Dec. 26, 2019	Dec. 25, 2020		
RF cable	Times	1-40G	HKE-034	Dec. 26, 2019	Dec. 25, 2020		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 26, 2019	Dec. 25, 2020		

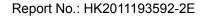
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





Test Data

Configuration Band I (5150 - 5250 MHz)						
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result		
11a	CH36	14.24	24	PASS		
11a	CH40	14.17	24	PASS		
11a	CH48	13.67	24	PASS		
11n(HT20)	CH36	13.13	24	PASS		
11n(HT20)	CH40	13.72	24	PASS		
11n(HT20)	CH48	13.27	24	PASS		
11n(HT40)	CH38	12.35	24	PASS		
11n(HT40)	CH46	12.14	24	PASS		
11ac(HT20)	CH36	11.01	24	PASS		
11ac(HT20)	CH40	10.60	24	PASS		
11ac(HT20)	CH48	10.22	24	PASS		
11ac(HT40)	CH38	10.30	24	PASS		
11ac(HT40)	CH46	9.68	24	PASS		
11ac(HT80)	CH42	9.63	24	PASS		





4.3. 6dB Emission Bandwidth

4.3.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)				
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C				
Limit:	>500kHz				
Test Setup:	Spectrum Analyzer EUT				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 				
Test Result:	PASS				

4.3.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 26, 2019	Dec. 25, 2020	
RF cable	Times	1-40G	HKE-034	Dec. 26, 2019	Dec. 25, 2020	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 26, 2019	Dec. 25, 2020	

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

4.3.3Test data

N/A





4.4. 26dB Bandwidth and 99% Occupied Bandwidth

4.4.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Limit:	No restriction limits
Test Setup:	
Took Mode.	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	 KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth RBW = 1% EBW, VBW≥3RBW, In order to make an accurate measurement. Measure and record the results in the test report.
Test Result:	PASS

4.4.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 26, 2019	Dec. 25, 2020	
RF cable	Times	1-40G	HKE-034	Dec. 26, 2019	Dec. 25, 2020	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 26, 2019	Dec. 25, 2020	

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





Test data

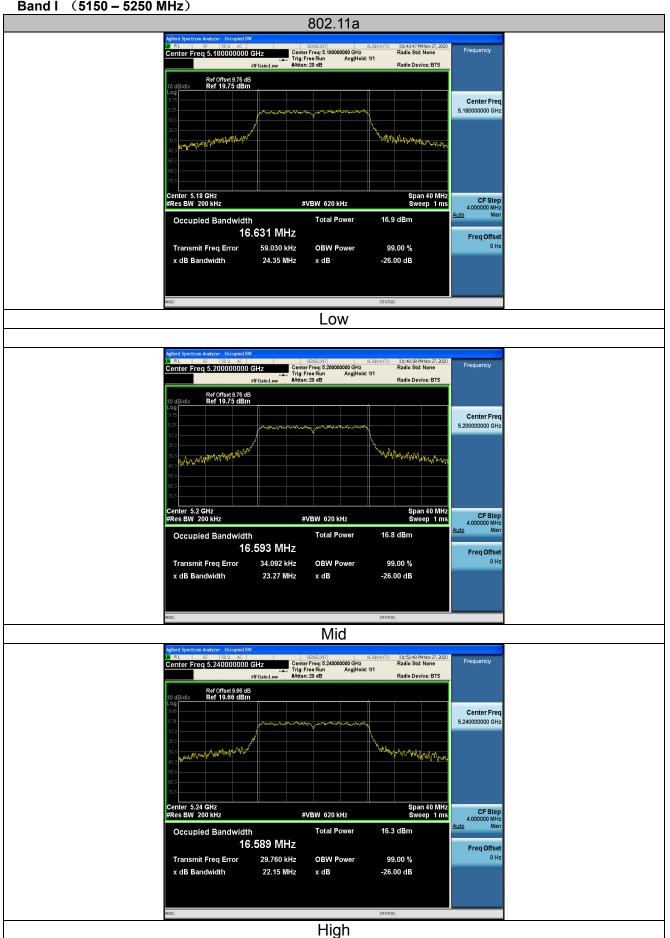
Band I

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Verdict
11a	CH36	5180	24.35	PASS
11a	CH40	5200	23.27	PASS
11a	CH48	5240	22.15	PASS
11n(HT20)	CH36	5180	24.14	PASS
11n(HT20)	CH40	5200	26.70	PASS
11n(HT20)	CH48	5240	25.13	PASS
11n(HT40)	CH38	5190	39.88	PASS
11n(HT40)	CH46	5230	44.45	PASS
11ac(HT20)	CH36	5180	27.80	PASS
11ac(HT20)	CH40	5200	23.97	PASS
11ac(HT20)	CH48	5240	25.48	PASS
11ac(HT40)	CH38	5190	47.00	PASS
11ac(HT40)	CH46	5230	43.18	PASS
11ac(HT80)	CH42	5210	83.34	PASS

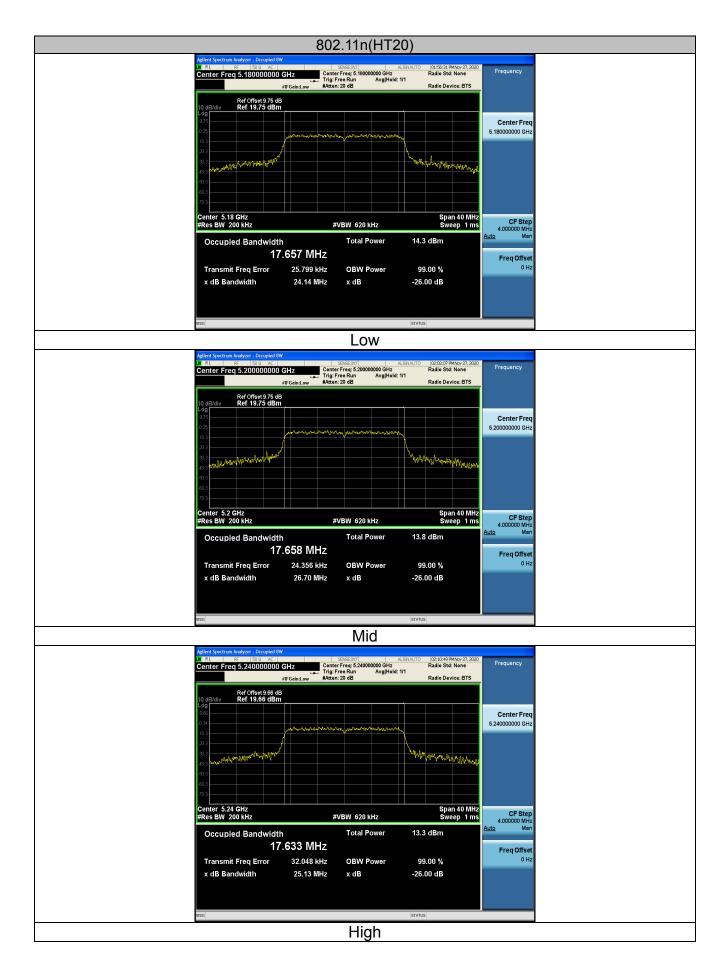
Test plots as follows:



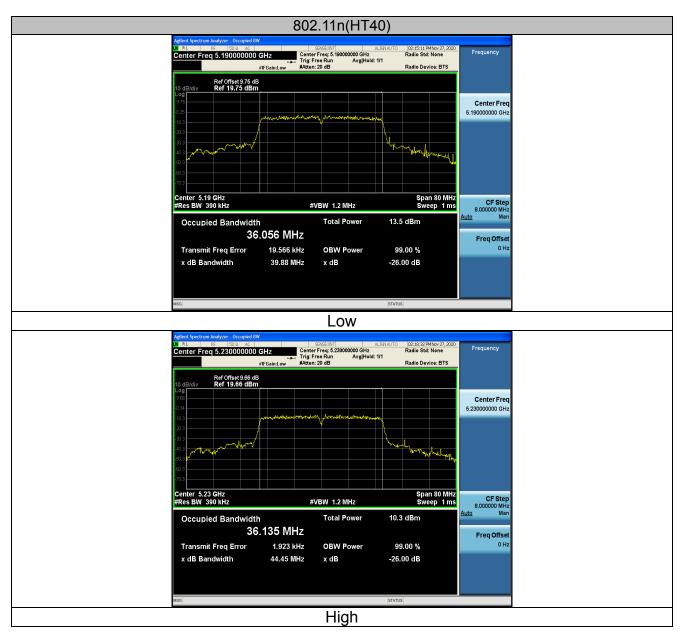
Band I (5150 - 5250 MHz)

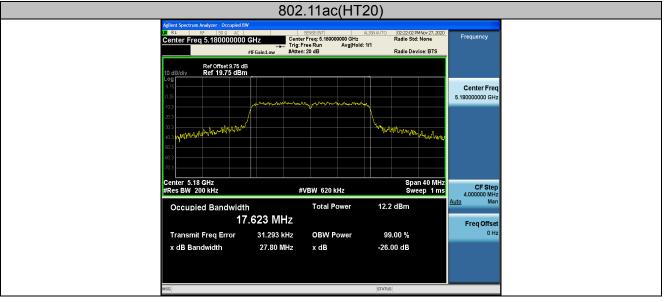




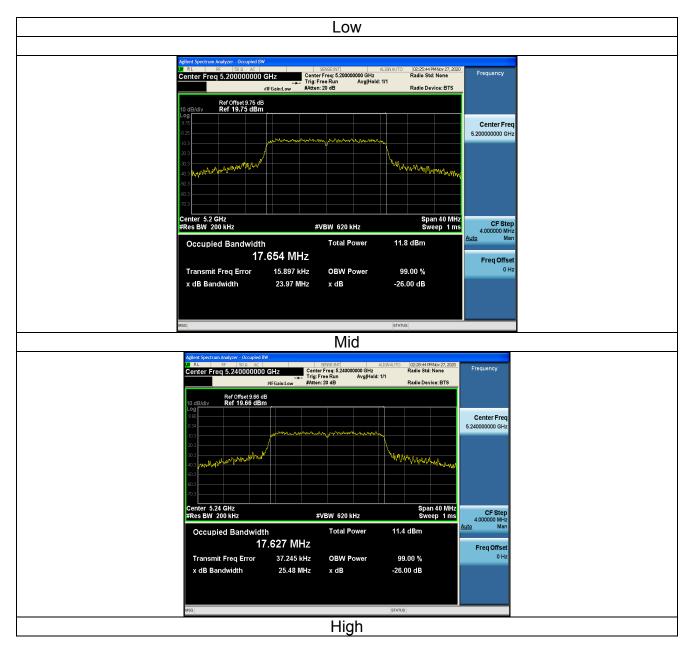


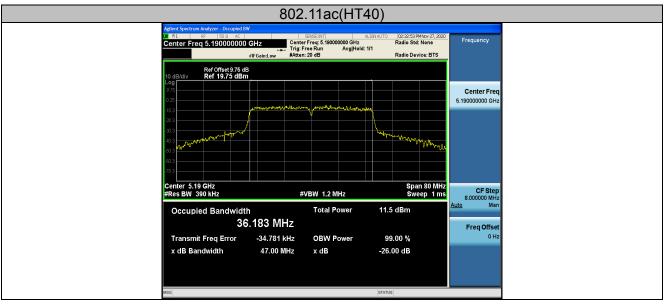




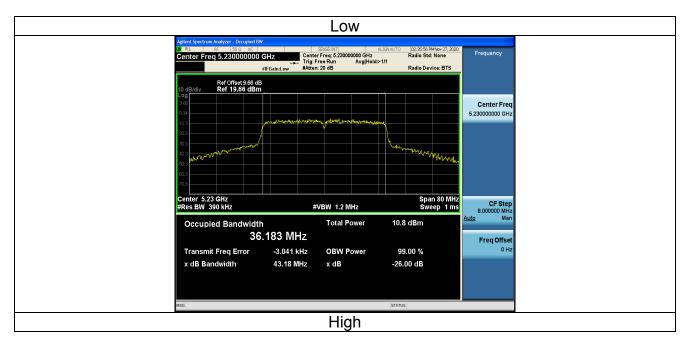


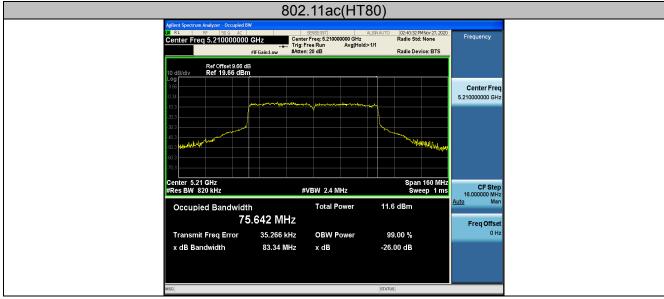


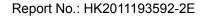














4.5. Power Spectral Density

4.5.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)		
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F		
Limit:	≤11.00dBm/MHz for Band I 5150MHz-5250MHz		
Test Setup:			
	Spectrum Analyzer EUT		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	 Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. Set RBW = 1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. Allow the sweeps to continue until the trace stabilizes. Use the peak marker function to determine the maximum amplitude level. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment. 		
Test Result:	PASS		

4.5.2. Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 26, 2019	Dec. 25, 2020	
RF cable	Times	1-40G	HKE-034	Dec. 26, 2019	Dec. 25, 2020	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 26, 2019	Dec. 25, 2020	

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





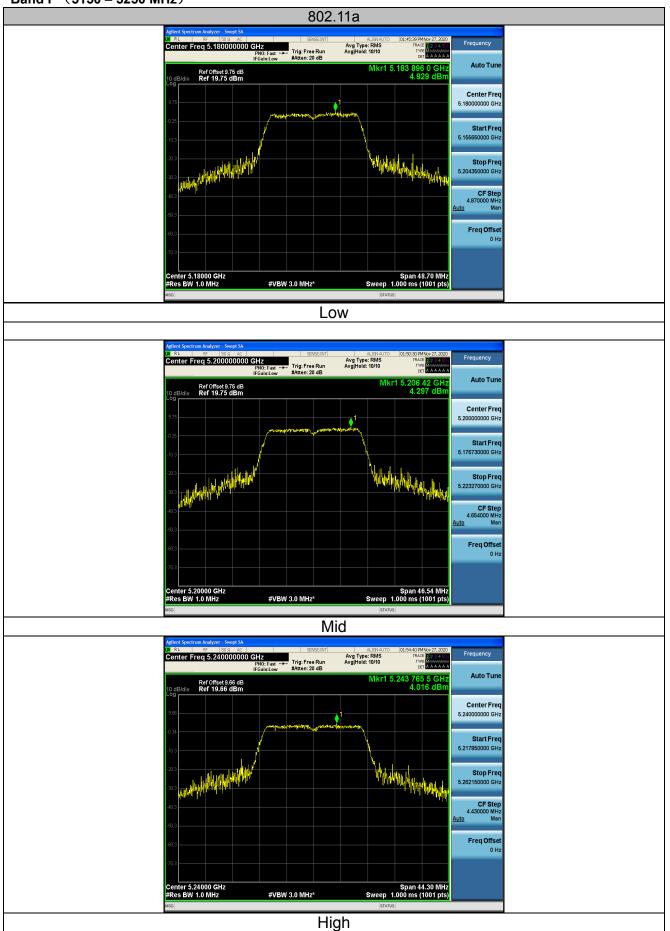
4.5.3. Test data

Configuration Band I (5150 - 5250 MHz)					
Mode	Test channel	Level [dBm/MHz]	Limit (dBm/MHz)	Result	
11a	CH36	4.93	11	PASS	
11a	CH40	4.30	11	PASS	
11a	CH48	4.02	11	PASS	
11n(HT20)	CH36	2.96	11	PASS	
11n(HT20)	CH40	2.18	11	PASS	
11n(HT20)	CH48	2.25	11	PASS	
11n(HT40)	CH38	-0.41	11	PASS	
11n(HT40)	CH46	-3.48	11	PASS	
11ac(HT20)	CH36	0.74	11	PASS	
11ac(HT20)	CH40	1.05	11	PASS	
11ac(HT20)	CH48	-0.10	11	PASS	
11ac(HT40)	CH38	-2.32	11	PASS	
11ac(HT40)	CH46	-3.19	11	PASS	
11ac(HT80)	CH42	-7.30	11	PASS	

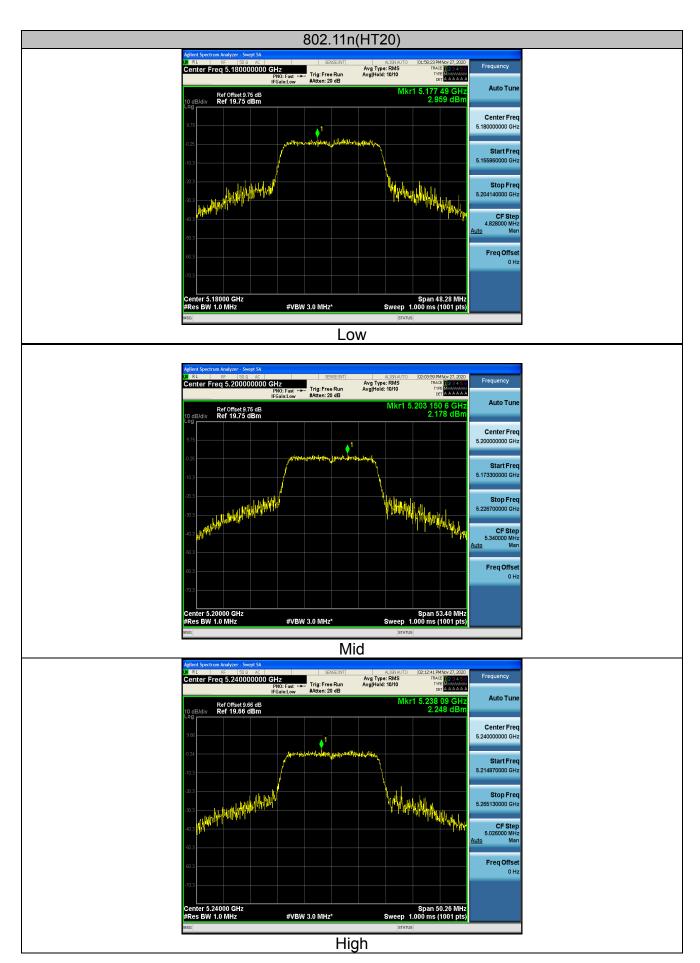




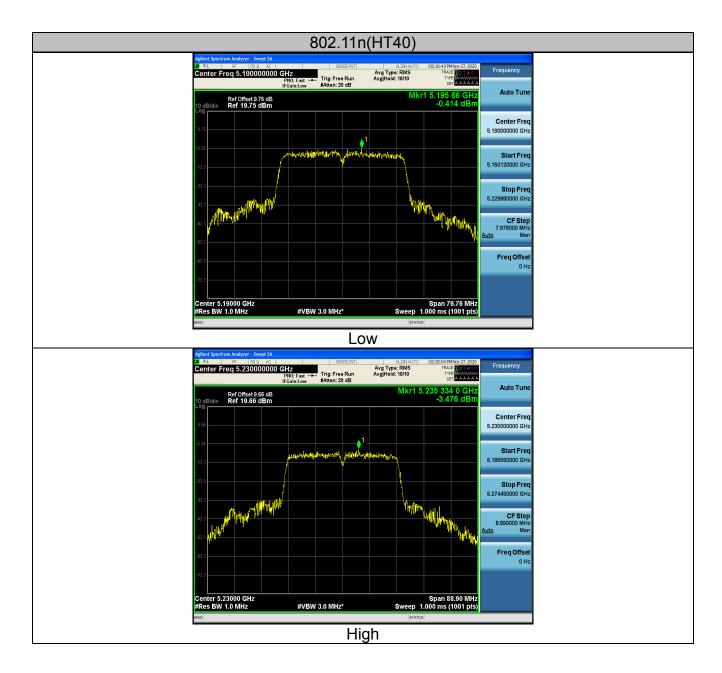
Band I (5150 - 5250 MHz)



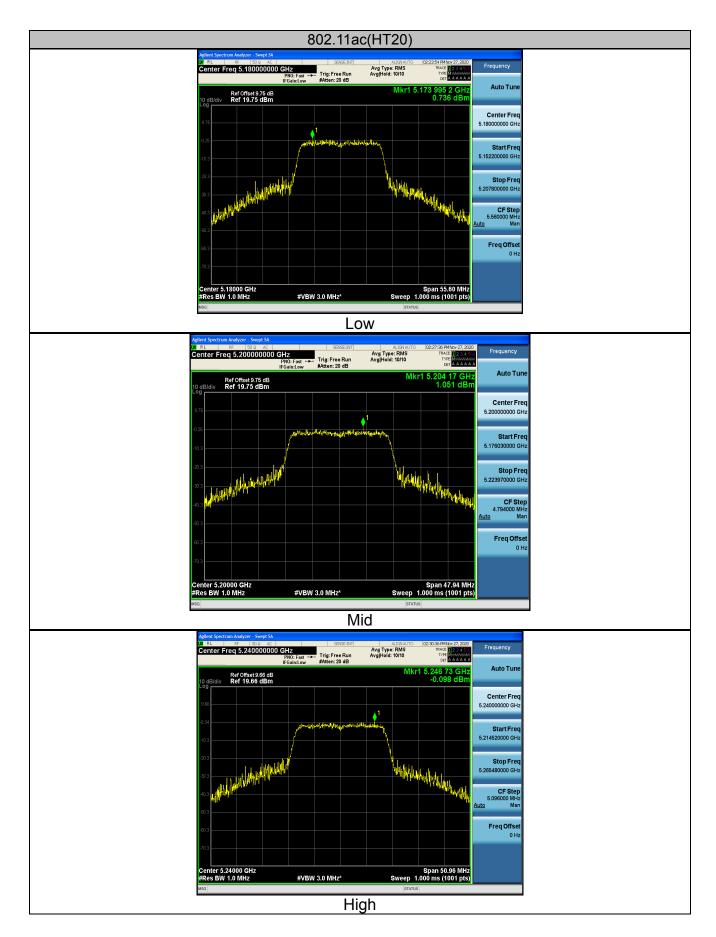




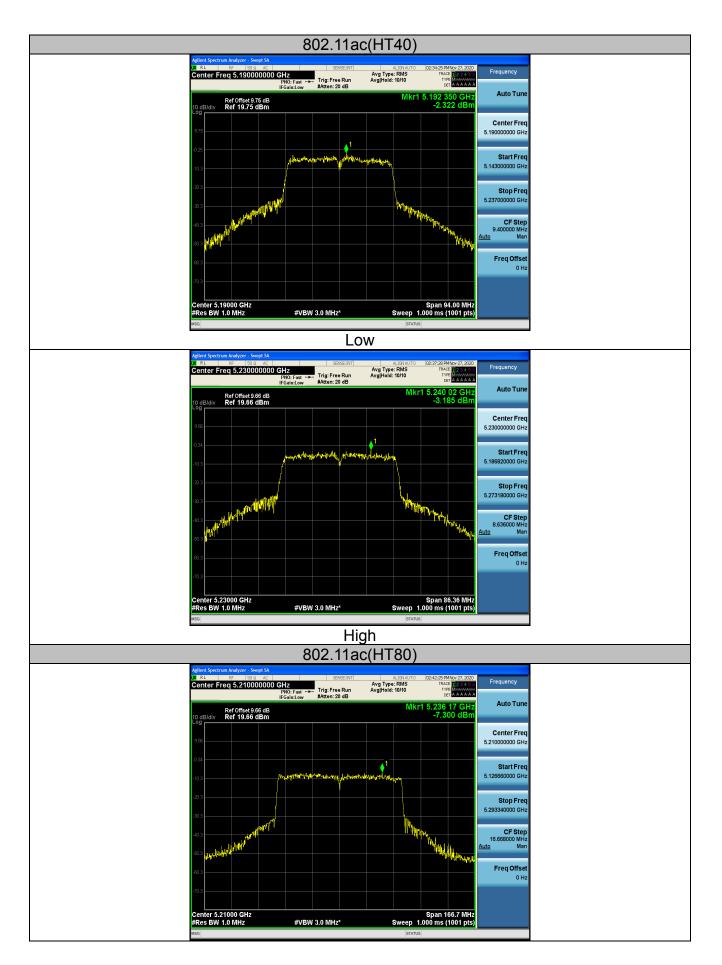
















Low

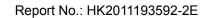




4.6. Band edge

4.6.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407		
Test Method:	ANSI C63.10 2013		
	 (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.		
Limit:	(4) For transmitters operating in the 5.725-5.85 GHz band:		
	(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		
	The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.		
Test Setup:	Ant. feed point 1.4 m Ground Plane		
	Receiver Amp.		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum 		





	value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet.
Test Result:	PASS

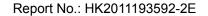




4.6.2. Test Instruments

	Bo	distad Emission	Toot Site (066	2)	
	Ka	diated Emissior	•	1	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESRP3	HKE-005	Dec. 26, 2019	Dec. 25, 2020
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 26, 2019	Dec. 25, 2020
Preamplifier	EMCI	EMC051845S E	HKE-015	Dec. 26, 2019	Dec. 25, 2020
Preamplifier	Agilent	83051A	HKE-016	Dec. 26, 2019	Dec. 25, 2020
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 26, 2019	Dec. 25, 2020
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 26, 2019	Dec. 25, 2020
Horn antenna	Schwarzbeck	9120D	HKE-013	Dec. 26, 2019	Dec. 25, 2020
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Dec. 26, 2019	Dec. 25, 2020
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable (9KHz-1GHz)	Times	381806-001	N/A	N/A	N/A
Hf antenna	Schwarzbeck	LB-180400-KF	HKE-031	Dec. 26, 2019	Dec. 25, 2020
RF cable	Tonscend	1-18G	HKE-099	Dec. 26, 2019	Dec. 25, 2020
RF cable	Times	1-40G	HKE-034	Dec. 26, 2019	Dec. 25, 2020

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





4.6.3. Test Data

Radiated Band Edge Test: Operation Mode: 802.11a Mode with 5.2G TX CH Low

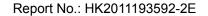
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	53.62	-2.49	51.13	74	-22.87	peak
5150	1	-2.49	1	54	1	AVG
Remark: Factor	= Antenna Factor	+ Cable I oss -	Pre-amplifier			

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	52.48	-2.49	49.99	74	-24.01	peak
5150	1	-2.49	1	54	1	AVG



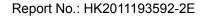


Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	53.64	-2.11	51.53	74	-22.47	peak
5350	1	-2.11	1	54	1	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss -	Pre-amplifier.			

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	52.48	-2.11	50.37	74	-23.63	peak
5350	1	-2.11	1	54	1	AVG





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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	55.02	-2.49	52.53	74	-21.47	peak
5150	1	-2.49	1	54	I	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss -	Pre-amplifier.			

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	53.67	-2.49	51.18	74	-22.82	peak
5150	1	-2.49	1	54	1	AVG





Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	52.68	-2.11	50.57	74	-23.43	peak		
5350	1	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	52.66	-2.11	50.55	74	-23.45	peak		
5350	/	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							





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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	52.69	-2.49	50.2	74	-23.8	peak		
5150	1	-2.49	1	54	I	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotactor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	54.32	-2.49	51.83	74	-22.17	peak
5150	1	-2.49	1	54	1	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss –	Pre-amplifier.			





Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	52.75	-2.11	50.64	74	-23.36	peak		
5350	1	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	53.64	-2.11	51.53	74	-22.47	peak		
5350	/	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							





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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	54.77	-2.49	52.28	74	-21.72	peak		
5150	1	-2.49	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
5150	52.19	-2.49	49.7	74	-24.3	peak			
5150	1	-2.49	1	54	1	AVG			
Danis di Fastan	Demants Factor - Antonno Factor I Cable Loop Dre complifies								



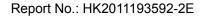


Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	52.44	-2.11	50.33	74	-23.67	peak		
5350	1	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	53.64	-2.11	51.53	74	-22.47	peak
5350	1	-2.11	1	54	1	AVG





Operation Mode: 802.11 ac40 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	52.78	-2.49	50.29	74	-23.71	peak		
5150	1	-2.49	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	53.85	-2.49	51.36	74	-22.64	peak		
5150	1	-2.49	1	54	1	AVG		
Domark: Factor	Pamark: Factor - Antanna Factor + Cable Loss - Pro amplifier							





Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	54.01	-2.11	51.9	74	-22.1	peak		
5350	1	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	53.19	-2.11	51.08	74	-22.92	peak
5350	1	-2.11	1	54	1	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss -	Pre-amplifier.			





Operation Mode: 802.11 ac80 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	53.66	-2.49	51.17	74	-22.83	peak		
5150	1	-2.49	1	54	I	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	52.49	-2.49	50	74	-24	peak		
5150	1	-2.49	1	54	1	AVG		
Domark: Factor	Pemark: Factor - Antenna Factor + Cable Loss - Dre amplifier							





Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	53.64	-2.11	51.53	74	-22.47	peak		
5350	1	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	53.72	-2.11	51.61	74	-22.39	peak		
5350 / -2.11 / 54 / AVG								
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

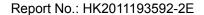




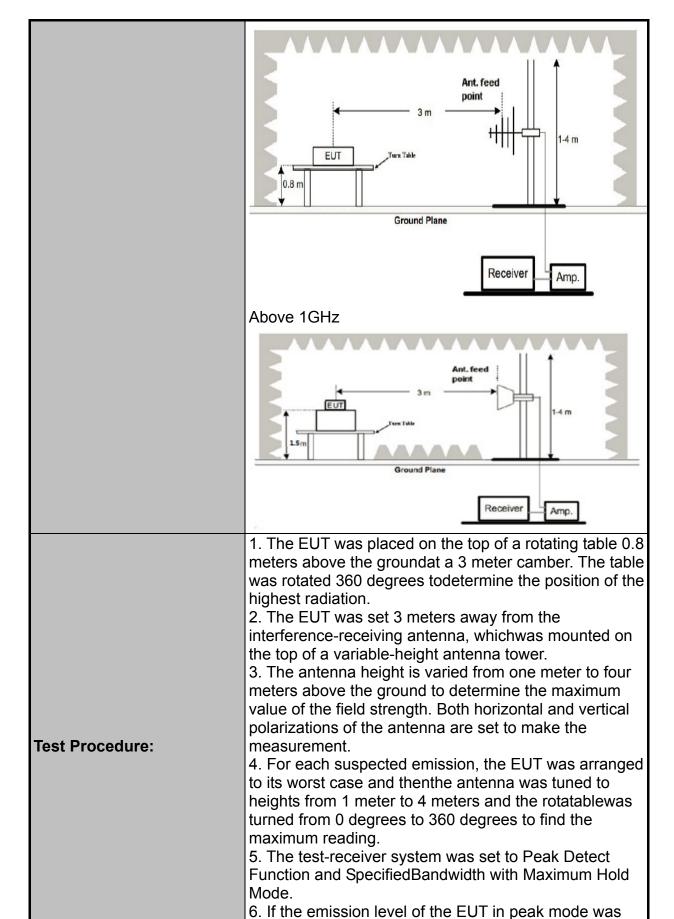
4.7. Spurious Emission

4.7.1.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 Se	ction 15.	407			
Test Method:	KDB 789033 D02 v02r01						
Frequency Range:	9kHz to 40GHz						
Measurement Distance:	3 m						
Antenna Polarization:	Horizontal &	Vertical					
Operation mode:	Transmitting	mode with	modulat	ion			
Receiver Setup:	Frequency 9kHz- 150kHz 150kHz- 30MHz 30MHz Above 1GHz	Detector Quasi-peak Quasi-peak Quasi-peak Peak Peak	RBW 200Hz 9kHz 120KHz 1MHz 1MHz	VBW 1kHz 30kHz 300KHz 3MHz 10Hz	Remark Quasi-peak Value Quasi-peak Value Quasi-peak Value Peak Value Average Value		
Limit:	band: All em shall not exce (i) All emiss dBm/MHz at edge increas above or below the 15.6 dBm/MH and from 5 increasing linedge.	issions out eed an e.i.r sions shall 75 MHz or sing linearl ow the ban band edge Hz at 5 MHz MHz abor nearly to a l	side of t r.p. of -2 be limi r more a ly to 10 d edge, a e increas z above or ove or evel of 2	he 5.15-7 dBm/M ted to a bove or dBm/M and from ing linea or below the dBm/M dBm/M dBm/M dBm/M dBm/M	5.15-5.25 GHz 5.35 GHz band IHz. a level of -27 below the band Hz at 25 MHz a 25 MHz above arly to a level of the band edge, he band edge IHz at the band which fall in rest		
Test setup:	For radiated emissions below 30MHz RX Antenna Ground Plane Receiver 30MHz to 1GHz						







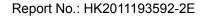
10dB lower than the limitspecified, then testing could be

stopped and the peak values of the EUT wouldbe





	reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.
Test results:	PASS





4.7.2. Test Data

All the test modes completed for test. only the worst result of (802.11a at 5180MHz) was reported Below 1GHz

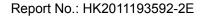
Horizontal



QP Detector

Suspe	Suspected List										
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	55.2452	-14.44	51.19	36.75	40.00	3.25	100	182	Horizontal		
2	121.2713	-17.29	54.95	37.66	43.50	5.84	100	60	Horizontal		
3	263.0330	-13.57	52.82	39.25	46.00	6.75	100	204	Horizontal		
4	330.0300	-11.59	49.88	38.29	46.00	7.71	100	35	Horizontal		
5	503.8338	-8.19	44.81	36.62	46.00	9.38	100	41	Horizontal		
6	891.2513	-1.87	42.61	40.74	46.00	5.26	100	189	Horizontal		

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

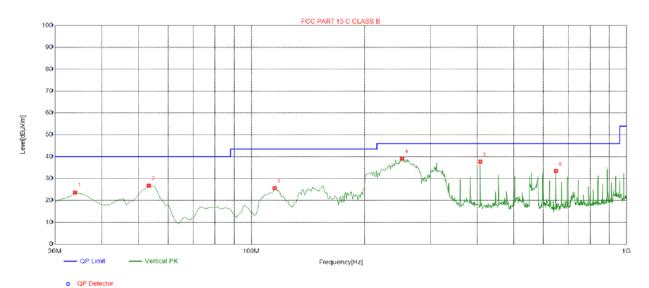




Vertical

648.5085

6



Suspected List Reading Limit Freq. Factor Level Margin Height Angle NO. Polarity [MHz] [dB] [dBµV/m] [dBµV/m] $[dB\mu V/m]$ [dB] [°] [cm] 40.00 23.63 1 33.8839 -16.19 39.82 16.37 100 86 Vertical 2 53.3033 -14.15 40.91 26.76 40.00 13.24 100 288 Vertical 3 115.4454 -16.34 41.91 25.57 43.50 17.93 100 118 Vertical 4 252.3524 -13.42 52.45 39.03 46.00 6.97 100 125 Vertical 5 407.7077 -10.26 48.02 37.76 46.00 8.24 100 105 Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

46.00

33.48

100

182

Vertical

12.52

39.27

-5.79





Above 1GHz

LOW CH 36 (802.11 a Mode with 5.2G)/5180

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
3647	59.67	-4.59	55.08	74	-18.92	peak			
3647	47.15	-4.59	42.56	54	-11.44	AVG			
10360	52.32	3.74	56.06	74	-17.94	peak			
10360	40.12	3.74	43.86	54	-10.14	AVG			
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
3647	59.67	-4.59	55.08	74	-18.92	peak			
3647	48.37	-4.59	43.78	54	-10.22	AVG			
10360	51.42	3.74	55.16	74	-18.84	peak			
10360	40.25	3.74	43.99	54	-10.01	AVG			
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

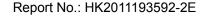




MID CH40 (802.11 a Mode with 5.2G)/5200 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
3647	61.25	-4.59	56.66	74	-17.34	peak			
3647	45.72	-4.59	41.13	54	-12.87	AVG			
10400	53.88	3.74	57.62	74	-16.38	peak			
10400	40.38	3.74	44.12	54	-9.88	AVG			
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
3647	60.29	-4.59	55.7	74	-18.3	peak			
3647	46.98	-4.59	42.39	54	-11.61	AVG			
10400	52.01	3.74	55.75	74	-18.25	peak			
10400	39.72	3.74	43.46	54	-10.54	AVG			
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.								





HIGH CH 48 (802.11a Mode with 5.2G)/5240 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Typa		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
3647	60.37	-4.59	55.78	74	-18.22	peak		
3647	47.25	-4.59	42.66	54	-11.34	AVG		
10480	52.32	3.75	56.07	74	-17.93	peak		
10480	39.58	3.75	43.33	54	-10.67	AVG		
Domarki Factor	emark: Factor - Antonna Factor + Cable Loss - Dre amplifier							

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	60.37	-4.59	55.78	74	-18.22	peak
3647	44.15	-4.59	39.56	54	-14.44	AVG
10480	52.97	3.75	56.72	74	-17.28	peak
10480	39.55	3.75	43.3	54	-10.7	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

- (1) Measuring frequencies from 1 GHz to the 40 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed. (7)All modes of operation were investigated and the worst-case of 802.11a are reported.

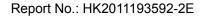




4.8. Frequency Stability Measurement

4.8.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g)				
Test Method:	ANSI C63.10: 2013				
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.				
Test Setup:	Spectrum Analyzer EUT AC/DC Power supply				
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.				
Test Result:	PASS				
Remark:	N/A				

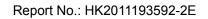




4.8.2. Test Instruments

	RF Test Room										
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due						
Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 26, 2019	Dec. 25, 2020						
Temperature and humidity meter	Boyang	HTC-1	HKE-077	Dec. 26, 2019	Dec. 25, 2020						
programmable power supply	Agilent	E3646A	HKE-092	Dec. 26, 2019	Dec. 25, 2020						

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





4.8.3.
Test Result as follows:

Mode	Voltage (V)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
5.2G Band	8.1V	5180.030	30	5239.959	-41
	9.0V	5179.983	-17	5239.967	-33
	9.9V	5180.014	14	5240.039	39

Mode	Temperature $(^{\mathbb{C}})$	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
5.2G Band	-30	5180.049	49	5239.999	-1
	-20	5179.980	-20	5239.994	-6
	-10	5179.968	-32	5239.983	-17
	0	5179.978	-22	5239.990	-10
	10	5179.999	-1	5240.026	26
	20	5180.043	43	5239.959	-41
	30	5180.011	11	5240.017	17
	40	5179.997	-3	5240.043	43
	50	5180.034	34	5240.030	30





4.9. 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.

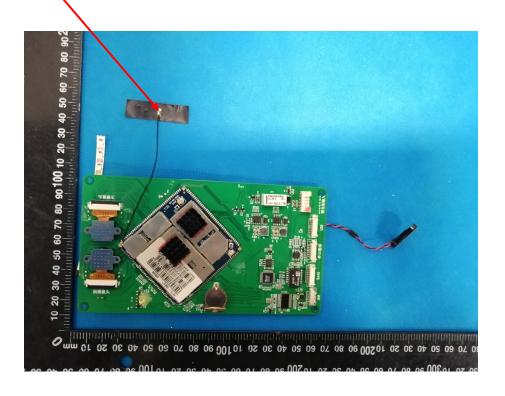
Refer to statement below for compliance.

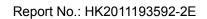
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a Internal Antenna which use a special interface and cannot easily replace, The directional gains of antenna used for transmitting is 1dBi.

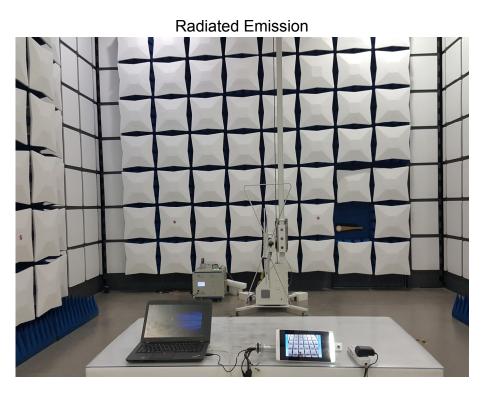
WIFI ANTENNA

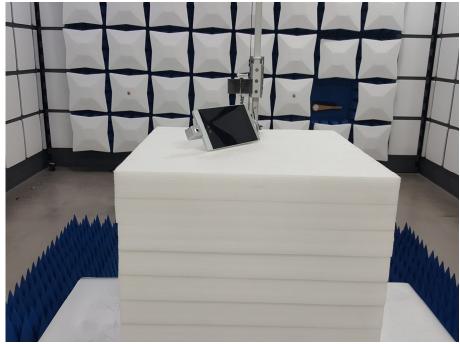


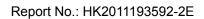




4.10. Photographs of Test Setup

















5. PHOTOS OF THE EUT

Reference to the reporter : ANNEX A of external photos and ANNEX B of internal photos
End of test report