



FCC TEST REPORT

Test report
On Behalf of
Acer India Pvt Ltd.
For
Tablet PC

Model No.: Acer One 8 T4-82L

FCC ID: 2AMY3-8T482L

Prepared for: Acer India Pvt Ltd.

Embassy Heights 6th Floor, No.13, Magrath Road, (Next to Hosmat Hospital)

Bangalore, 560025, India

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

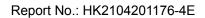
1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,

Bao'an District, Shenzhen City, China

Date of Test: Jul. 31, 2020 ~Apr. 21, 2021

Date of Report: Apr. 21, 2021

Report Number: HK2104201176-4E





TEST RESULT CERTIFICATION

Applicant's name	Acer India	Pvt Ltd.	
Address	Embassy Heights 6th Floor, No.13, Magrath Road, (Next to Hosmat Hospital) Bangalore, 560025, India		
Manufacture's Name	SHENZHEN YUKO TECHNOLOGY CO., LTD		
Address	6TH FLOOR, A9 BUILDING TIANRUI INDUSTRIAL PARK, FUYUAN 1ST RD, BAO'AN, SHENZHEN CHINA		
Product description			
Trade Mark:	Acer		
Product name:	Tablet PC		
Model and/or type reference .:	Acer One 8	3 T4-82L	
Standards	FCC Rules ANSI C63.1	and Regulations Part 15 Subpart C Section 15.407	
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Date (s) of performance of tests		Jul. 31, 2020 ~Apr. 21, 2021	
Date of Issue	: <i>F</i>	Apr. 21, 2021	
Test Result	: F	Pass	
Prepar	ed by:	Gany Qian	
		Project Engineer	
Review	ved by:	Las Mong	
		Project Supervisor	

Technical Director

Approved by:

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** Modifited History **

Revison	Description	Issued Data	Remark
Revsion 1.0	Initial Test Report Release	Aug. 12, 2020	Jason Zhou
Revsion 2.0	The RF data is from the report: HK2007272064-4E Equipment to replace the memory, update the data involved	Apr. 21, 2021	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(a)	PASS
Radiated Emission	§15.407(a)	PASS
Frequency Stability	§15.407(g)	PASS

Note:

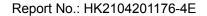
- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

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	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

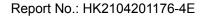




2. EUT Description

2.1. GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC
Model Name	Acer One 8 T4-82L
Serial No.	N/A
Trade Mark	Acer
Model Difference	N/A
FCC ID	2AMY3-8T482L
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	CCK/OFDM/DBPSK/DAPSK
Antenna Type	Internal Antenna
Antenna Gain	1dBi
Power Source	DC 3.8V from battery or DC 5V from adapter
Power Supply:	DC 3.8V from battery or DC 5V from adapter





2.2. Operation Frequency each of channel

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

Note:

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

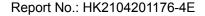
2.3. Operation of EUT during testing

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

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

For 802.11n (HT40)/ ac(HT40)

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





For 802.11ac(HT80)

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

2.4. DESCRIPTION OF TEST SETUP

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



Operation of EUT during radiation above 1GHz testing:



 Adapter information Model: K-T100S02000U

Input: 100-240V, 50/60Hz, 0.35A

Output:5V, 2000mA

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

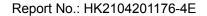
Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)

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		





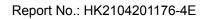
3.2. Description of Support Units

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

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.



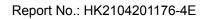


4. Test Results and Measurement Data

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					
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto					
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Average 56 to 46* 46 50				
Test Setup:	Reference Plane 40cm 80cm Filter AC power E.U.T AC power EMI Receiver 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	Jun. 18, 2020	Jun. 17, 2021		
LISN	R&S	ENV216	HKE-002	Jun. 18, 2020	Jun. 17, 2021		
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Jun. 18, 2020	Jun. 17, 2021		
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).

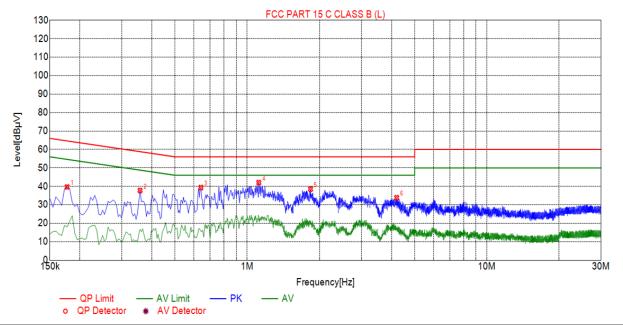




Test data

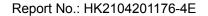
All the test modes completed for test. only the worst result of (802.11a at 5180MHz) was reported

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



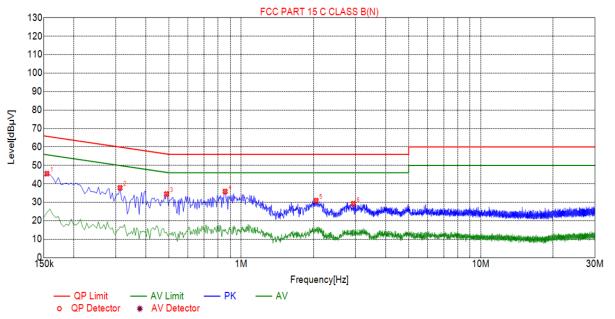
Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1770	39.67	20.05	64.74	25.07	19.62	PK	L	
2	0.3570	37.77	20.03	58.81	21.04	17.74	PK	L	
3	0.6405	39.33	20.05	56.00	16.67	19.28	PK	L	
4	1.1175	42.03	20.08	56.00	13.97	21.95	PK	L	
5	1.8375	38.52	20.14	56.00	17.48	18.38	PK	L	
6	4.2045	33.85	20.25	56.00	22.15	13.60	PK	L	

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



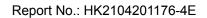






Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1545	45.53	20.03	65.81	20.28	25.50	PK	N	
2	0.3120	37.84	20.05	59.94	22.10	17.79	PK	N	
3	0.4875	34.48	20.04	56.24	21.76	14.44	PK	N	
4	0.8565	35.83	20.06	56.00	20.17	15.77	PK	N	
5	2.0535	30.90	20.15	56.00	25.10	10.75	PK	N	
6	2.9355	29.21	20.21	56.00	26.79	9.00	PK	N	

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

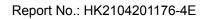




4.2. Maximum Conducted Output Power

4.2.1. Test Specification

Test Requirement:	FCC Part15 E Sec	tion 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 				
Test Result:	results in the test report. 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	Jun. 18, 2020	Jun. 17, 2021		
Power meter	Agilent	E4419B	HKE-085	Jun. 18, 2020	Jun. 17, 2021		
Power Sensor	Agilent	E9300A	HKE-086	Jun. 18, 2020	Jun. 17, 2021		
RF cable	Times	1-40G	HKE-034	Jun. 18, 2020	Jun. 17, 2021		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Jun. 18, 2020	Jun. 17, 2021		

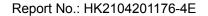
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).





Test Data

Configuration Band I (5150 - 5250 MHz)							
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result			
11a	CH36	13.49	24	PASS			
11a	CH40	13.97	24	PASS			
11a	CH48	12.85	24	PASS			
11n(HT20)	CH36	13.38	24	PASS			
11n(HT20)	CH40	12.90	24	PASS			
11n(HT20)	CH48	12.70	24	PASS			
11n(HT40)	CH38	13.11	24	PASS			
11n(HT40)	CH46	12.93	24	PASS			
11ac(HT20)	CH36	13.42	24	PASS			
11ac(HT20)	CH40	12.83	24	PASS			
11ac(HT20)	CH48	12.99	24	PASS			
11ac(HT40)	CH38	13.07	24	PASS			
11ac(HT40)	CH46	13.02	24	PASS			
11ac(HT80)	CH42	13.60	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:	EUT			
	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) = 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:	N/A			

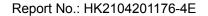
4.3.2. Test Instruments

RF Test Room							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Spectrum analyzer	Agilent	N9020A	HKE-048	Jun. 18, 2020	Jun. 17, 2021		
RF cable	Times	1-40G	HKE-034	Jun. 18, 2020	Jun. 17, 2021		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Jun. 18, 2020	Jun. 17, 2021		

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

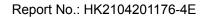
4.4.1. Test Specification

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:	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 = 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	Jun. 18, 2020	Jun. 17, 2021		
RF cable	Times	1-40G	HKE-034	Jun. 18, 2020	Jun. 17, 2021		
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Jun. 18, 2020	Jun. 17, 2021		

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





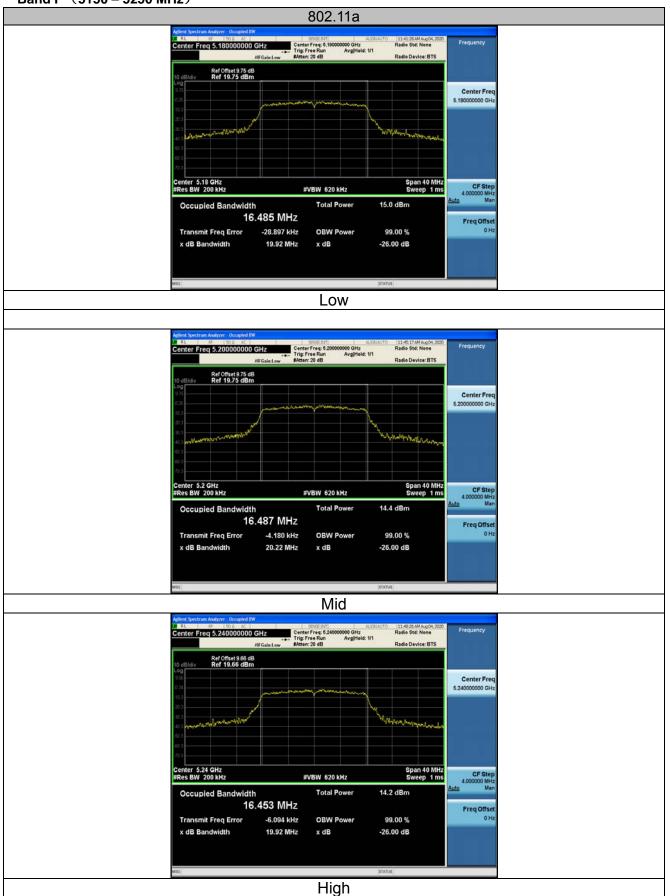
Test data **Band I**

Frequency Mode 26 dB Bandwidth Verdict Test channel (MHz) (MHz) 11a CH36 5180 19.92 **PASS** CH40 **PASS** 11a 5200 20.22 11a CH48 5240 19.92 **PASS** 11n(HT20) CH36 5180 **PASS** 20.97 11n(HT20) CH40 5200 20.55 PASS 11n(HT20) CH48 5240 20.08 **PASS** PASS 11n(HT40) CH38 5190 40.61 11n(HT40) CH46 5230 40.54 PASS 11ac(HT20) **CH36** 5180 **PASS** 20.13 11ac(HT20) CH40 5200 20.33 PASS 11ac(HT20) CH48 5240 20.08 PASS 11ac(HT40) **CH38** 5190 40.40 PASS 40.10 PASS 11ac(HT40) CH46 5230 11ac(HT80) CH42 5210 90.01 PASS

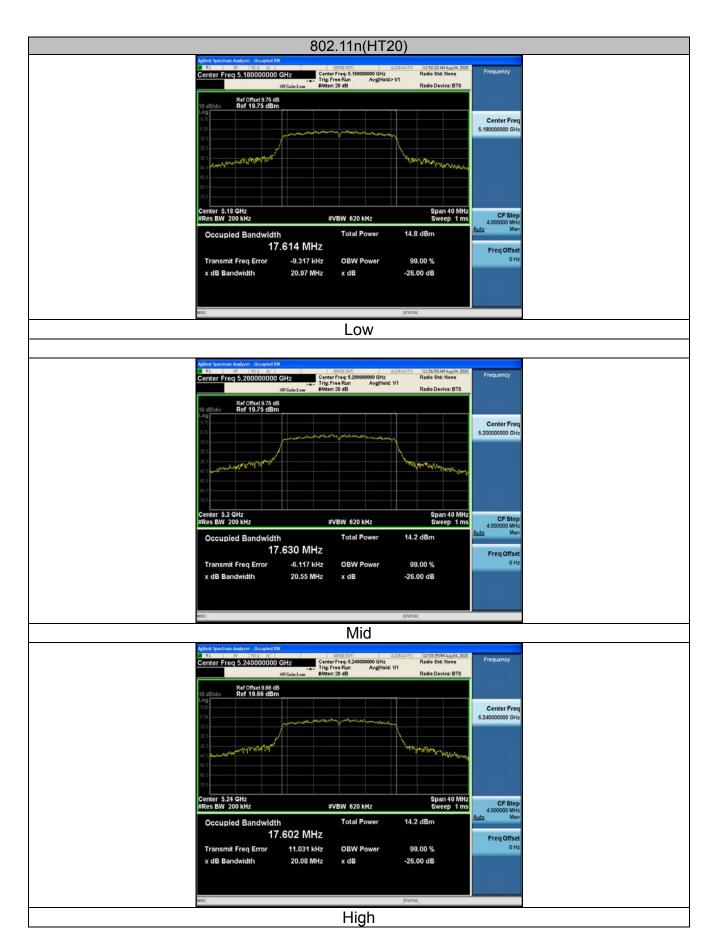
Test plots as follows:



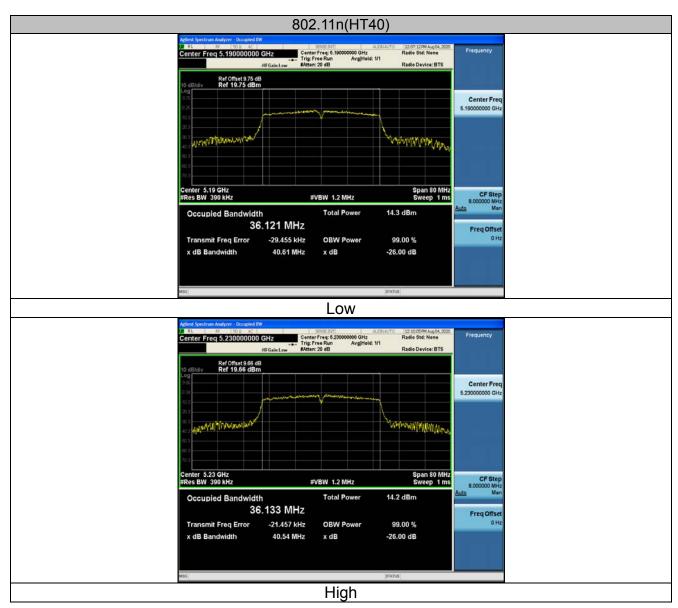
Band I (5150 - 5250 MHz)





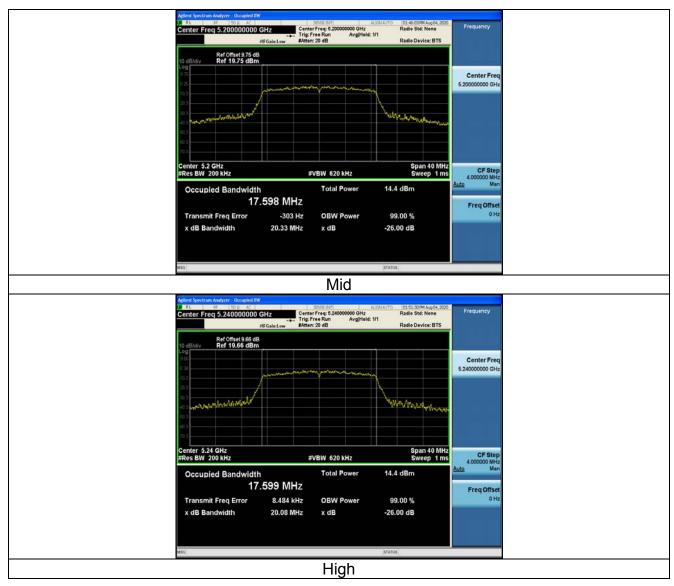


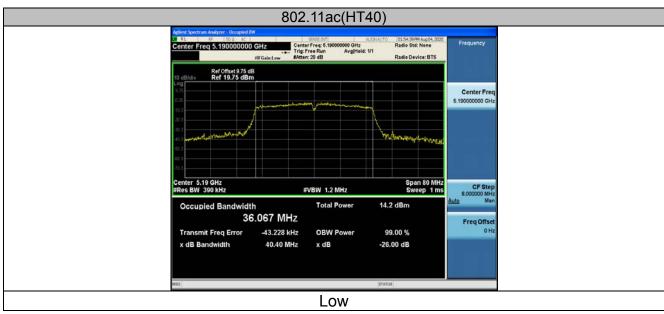




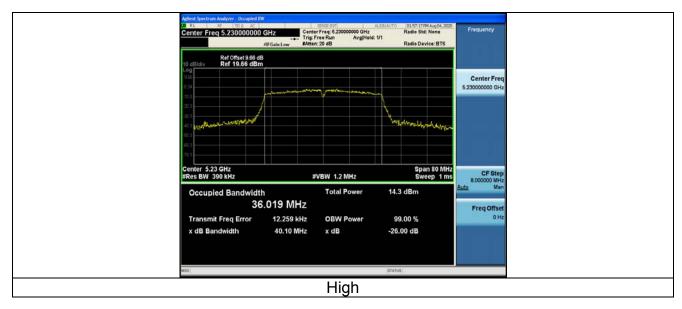


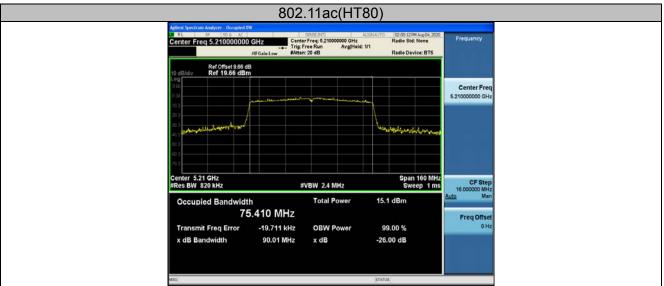


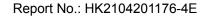














4.5. Power Spectral Density

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	Jun. 18, 2020	Jun. 17, 2021
RF cable	Times	1-40G	HKE-034	Jun. 18, 2020	Jun. 17, 2021
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Jun. 18, 2020	Jun. 17, 2021

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



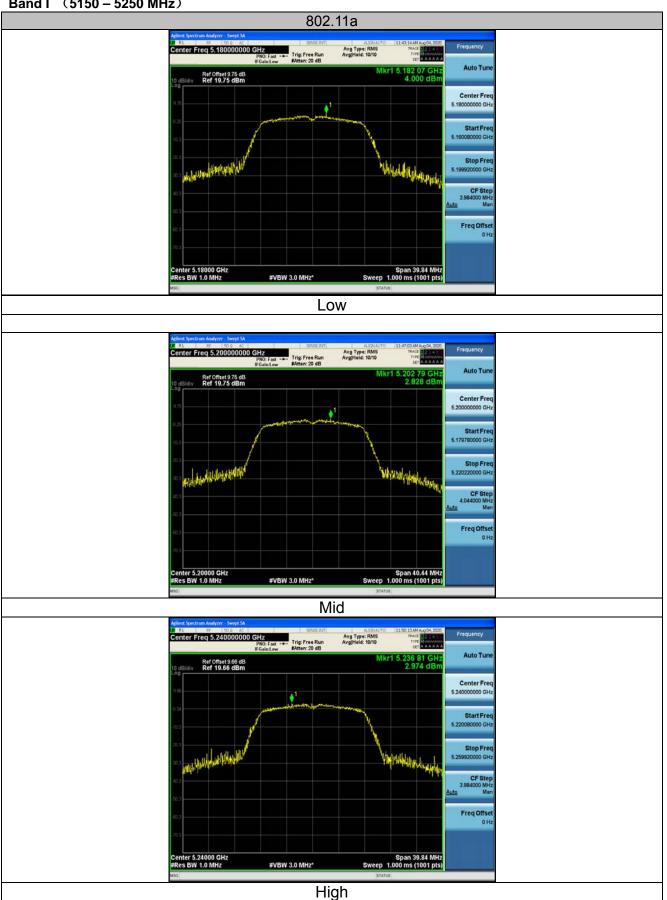


4.5.3. Test data

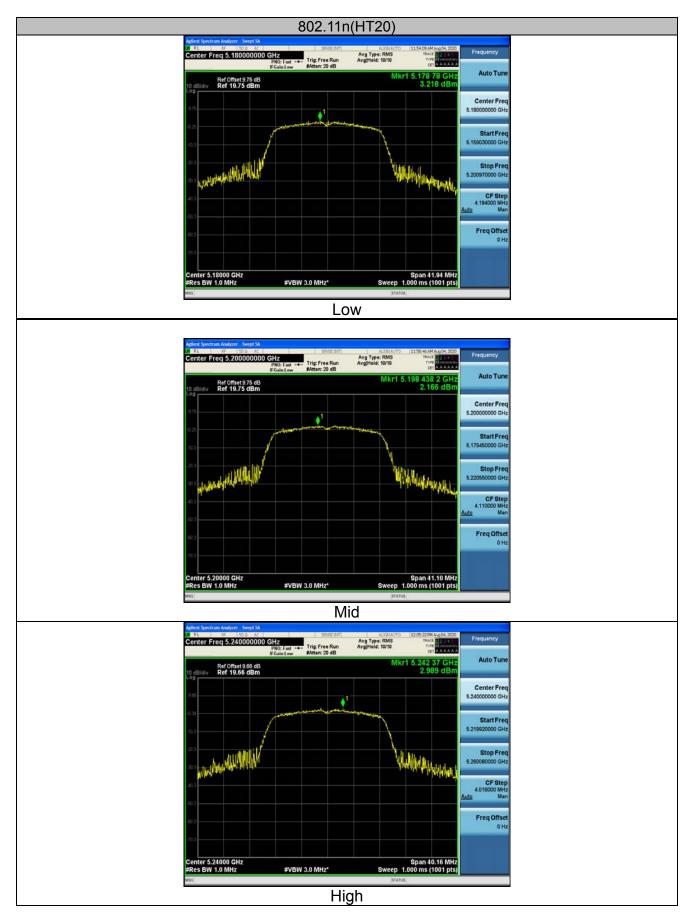
Configuration Band I (5150 - 5250 MHz)					
Mode	Test channel	Level [dBm/MHz]	Limit (dBm/MHz)	Result	
11a	CH36	4.00	11	PASS	
11a	CH40	2.83	11	PASS	
11a	CH48	2.97	11	PASS	
11n(HT20)	CH36	3.22	11	PASS	
11n(HT20)	CH40	2.17	11	PASS	
11n(HT20)	CH48	2.99	11	PASS	
11n(HT40)	CH38	-0.41	11	PASS	
11n(HT40)	CH46	-0.49	11	PASS	
11ac(HT20)	CH36	3.00	11	PASS	
11ac(HT20)	CH40	2.33	11	PASS	
11ac(HT20)	CH48	2.87	11	PASS	
11ac(HT40)	CH38	-0.01	11	PASS	
11ac(HT40)	CH46	0.05	11	PASS	
11ac(HT80)	CH42	-2.58	11	PASS	



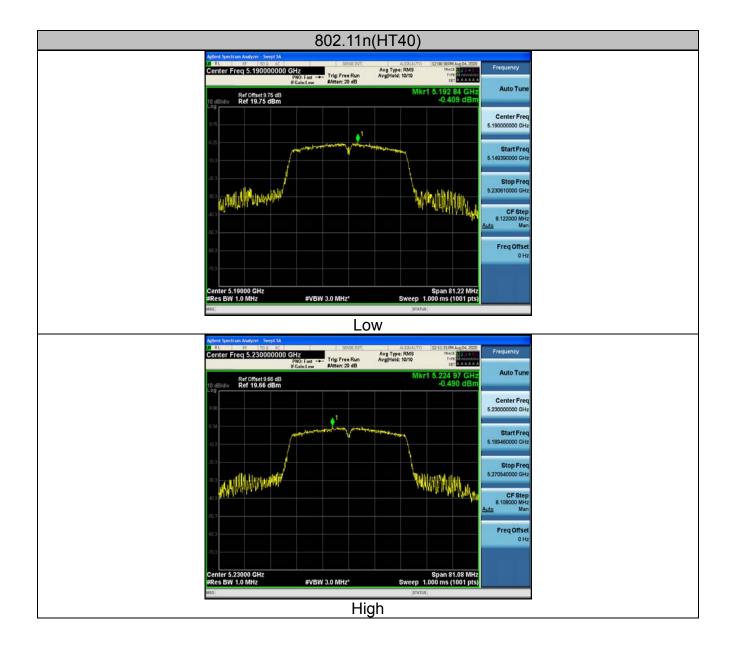
Band I (5150 – 5250 MHz)



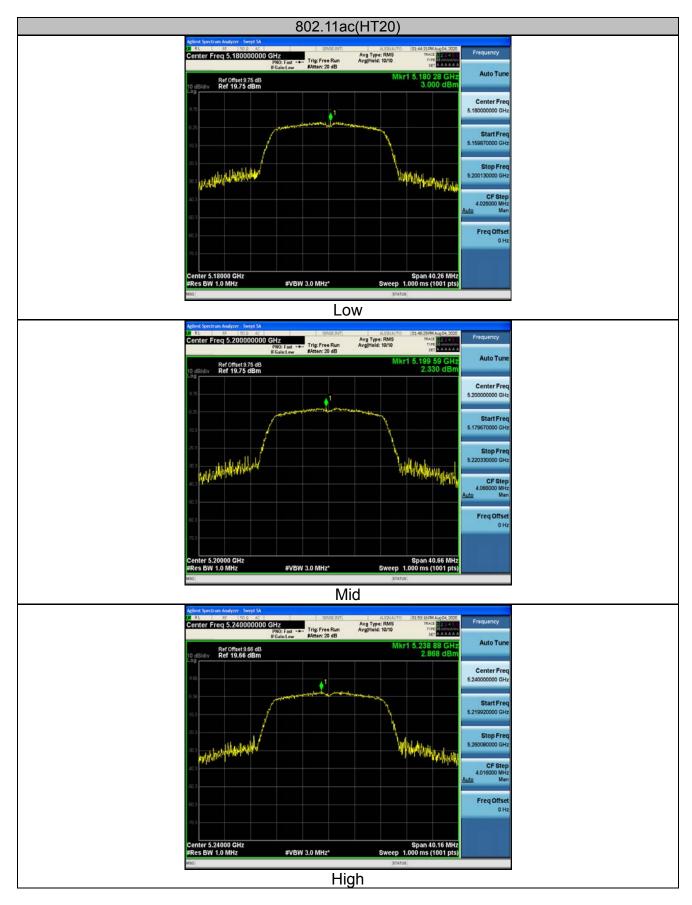




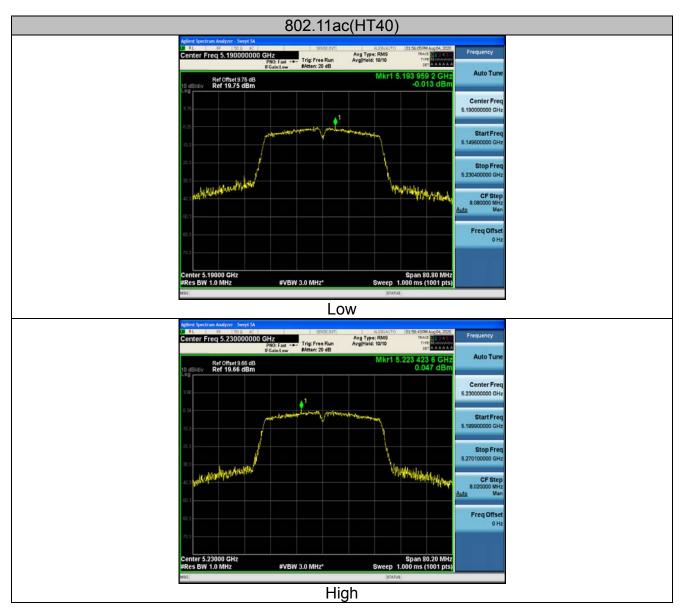


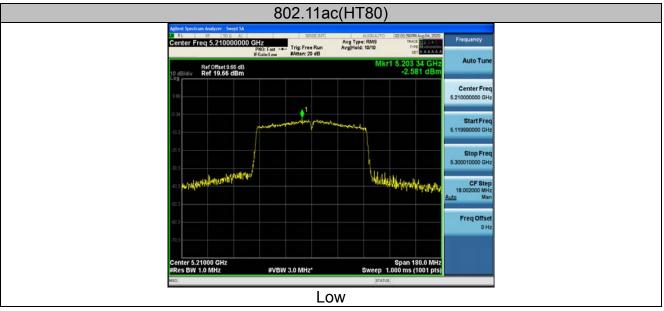












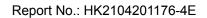




4.6. Band edge

4.6.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407			
Test Method:	ANSI C63.10 2013			
Limit:	For band I: $E[dB\mu V/m] = EIRP[dBm] + 95.2=68.2 dB\mu V/m$, for $EIRP(dBm) = -27dBm$			
Test Setup:	Ant. feed point Section 14 m Ground Plane Receiver Amp.			
Test Mode:	Transmitting mode with modulation			
Test Procedure:	Transmitting mode with modulation 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then			





Test Result: PASS

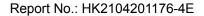




4.6.2. Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESRP3	HKE-005	Jun. 18, 2020	Jun. 17, 2021
Spectrum analyzer	Agilent	N9020A	HKE-048	Jun. 18, 2020	Jun. 17, 2021
Preamplifier	EMCI	EMC051845S E	HKE-015	Jun. 18, 2020	Jun. 17, 2021
Preamplifier	Agilent	83051A	HKE-016	Jun. 18, 2020	Jun. 17, 2021
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Jun. 18, 2020	Jun. 17, 2021
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Jun. 18, 2020	Jun. 17, 2021
Horn antenna	Schwarzbeck	9120D	HKE-013	Jun. 18, 2020	Jun. 17, 2021
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Jun. 18, 2020	Jun. 17, 2021
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	Jun. 18, 2020	Jun. 17, 2021
RF cable	Tonscend	1-18G	HKE-099	Jun. 18, 2020	Jun. 17, 2021
RF cable	Times	1-40G	HKE-034	Jun. 18, 2020	Jun. 17, 2021

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	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5150	52.74	-2.49	50.25	74	-23.75	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	51.02	-2.49	48.53	74	-25.47	peak
5150	1	-2.49	1	54	1	AVG



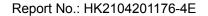


Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
5350	51.14	-2.11	49.03	74	-24.97	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	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
5350	51.05	-2.11	48.94	74	-25.06	peak
5350	1	-2.11	1	54	1	AVG
D F	_ Automo Footon	. 0	D 116			





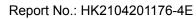
Operation Mode: 802.11n20 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotactor Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
5150	54.41	-2.49	51.92	74	-22.08	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	51.17	-2.49	48.68	74	-25.32	peak
5150	1	-2.49	1	54	1	AVG

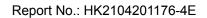




Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
5350	50.25	-2.11	48.14	74	-25.86	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	50.08	-2.11	47.97	74	-26.03	peak				
5350	1	-2.11	1	54	1	AVG				
Remark: Factor	= Antenna Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.								



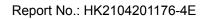


Operation Mode: 802.11 n40 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
5150	54.02	-2.49	51.53	74	-22.47	peak			
5150	1	-2.49	1	54	1	AVG			
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.								

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotoctor Typo			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
5150	51.24	-2.49	48.75	74	-25.25	peak			
5150	1	-2.49	1	54	I	AVG			
Remark: Factor	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	51.52	-2.11	49.41	74	-24.59	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	51.23	-2.11	49.12	74	-24.88	peak			
5350	1	-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	54.36	-2.49	51.87	74	-22.13	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	Dotoctor Typo			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
5150	52.47	-2.49	49.98	74	-24.02	peak			
5150	1	-2.49	1	54	1	AVG			
Domark: Factor	Pomark: Factor - Antenna Factor + Cable Loss - Dre amplifier								



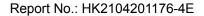


Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	52.62	-2.11	50.51	74	-23.49	peak		
5350	/	-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	52.41	-2.11	50.3	74	-23.7	peak
5350	1	-2.11	1	54	1	AVG





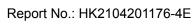
Operation Mode: 802.11 ac40 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	53.21	-2.49	50.72	74	-23.28	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	51.36	-2.49	48.87	74	-25.13	peak		
5150	1	-2.49	1	54	1	AVG		
D 1 E 1	Demonts Factor - Antonno Factor I Cobled and Dra amplifier							

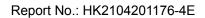




Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	55.54	-2.11	53.43	74	-20.57	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	51.27	-2.11	49.16	74	-24.84	peak		
5350	1	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							





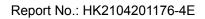
Operation Mode: 802.11 ac80 Mode with 5.2G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	53.36	-2.49	50.87	74	-23.13	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	51.35	-2.49	48.86	74	-25.14	peak		
5150	1	-2.49	1	54	1	AVG		
Domarki Fastar	Pemark: Factor - Antenna Factor + Cable Loss - Dre amplifier							

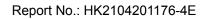




Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	52.84	-2.11	50.73	74	-23.27	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	50.01	-2.11	47.9	74	-26.1	peak		
5350	1	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							





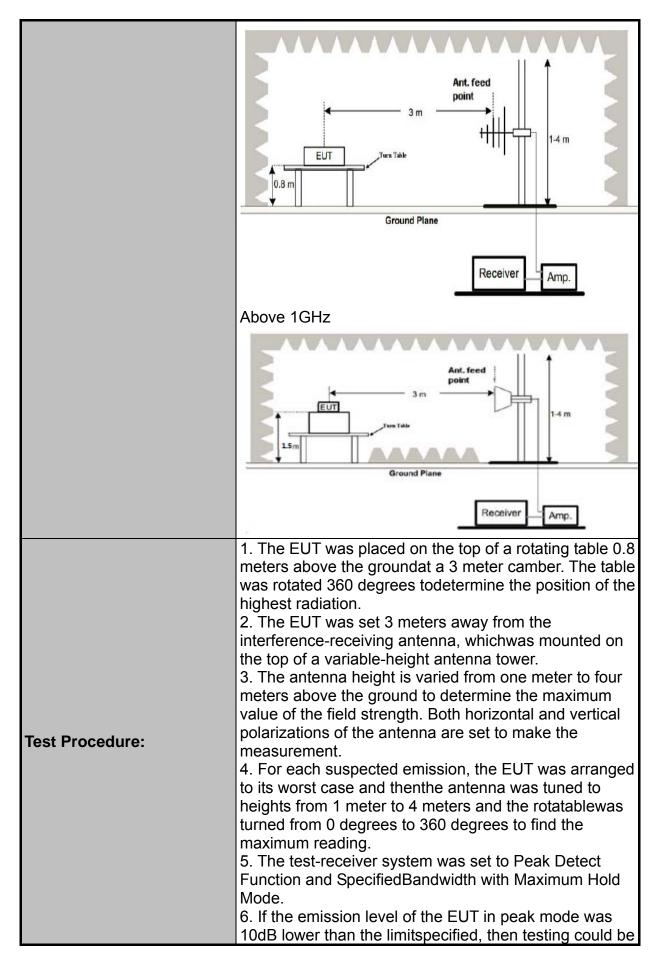
4.7. Spurious Emission

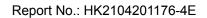
4.7.1.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 S	Section 15.	407		
Test Method:	KDB 789033	D02 v02	2r01			
Frequency Range:	9kHz to 40G	Hz				
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal &	Vertical				
Operation mode:	Transmitting	mode wi	th modulat	ion		
Possiver Setup	Frequency 9kHz- 150kHz 150kHz- 30MHz	Detector Quasi-pea Quasi-pea		VBW 1kHz 30kHz	Remark Quasi-peak Value Quasi-peak Value	
Receiver Setup:	30MHz-1GHz Above 1GHz	Quasi-pea Peak	k 120KHz 1MHz	300KHz 3MHz	Quasi-peak Value Peak Value	
	Above IGHZ	Peak	1MHz	10Hz	Average Value	
Limit:	per FCC Par general field below table, Frequency 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 216-960 Above 960 Frequency Above 1G	t15.205 s	Field Strengti (microvolts/m 2400/F(KHz) 24000/F(KHz) 30 100 150 200 500 Limit (dBuV/m 74.0 54.0	y with th	mestricted bands le in § 15.209 as Measurement Distance (meters) 300 30 30 3 3 3 3 3 Detector Peak Average	
Test setup:	For radiated emissions below 30MHz RX Antenna Ground Plane Receiver 30MHz to 1GHz					



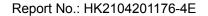








	stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.
Test results:	PASS





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



Suspe	Suspected List								
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	181.4715	-16.73	38.07	21.34	43.50	22.16	100	249	Horizontal
2	279.5395	-13.27	37.38	24.11	46.00	21.89	100	12	Horizontal
3	336.8268	-11.62	48.15	36.53	46.00	9.47	100	360	Horizontal
4	446.5465	-9.14	39.42	30.28	46.00	15.72	100	12	Horizontal
5	478.5886	-8.43	36.17	27.74	46.00	18.26	100	360	Horizontal
6	797.0671	-3.16	30.16	27.00	46.00	19.00	100	292	Horizontal

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





Vertical



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	77.5776	-19.03	36.91	17.88	40.00	22.12	100	158	Vertical
2	180.5005	-16.81	39.02	22.21	43.50	21.29	100	223	Vertical
3	341.6817	-11.65	35.87	24.22	46.00	21.78	100	78	Vertical
4	432.9530	-9.72	38.57	28.85	46.00	17.15	100	75	Vertical
5	565.9760	-6.51	30.84	24.33	46.00	21.67	100	194	Vertical
6	750.4605	-3.71	30.21	26.50	46.00	19.50	100	348	Vertical

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





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	60.69	-4.59	56.1	74	-17.9	peak			
3647	47.3	-4.59	42.71	54	-11.29	AVG			
10360	52.07	3.74	55.81	74	-18.19	peak			
10360 42.77 3.74 46.51 54 -7.49 AVG									
Remark: Factor	= Antenna Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	61.91	-4.59	57.32	74	-16.68	peak
3647	47.18	-4.59	42.59	54	-11.41	AVG
10360	51.76	3.74	55.5	74	-18.5	peak
10360	40.37	3.74	44.11	54	-9.89	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss –	Pre-amplifier.		-	

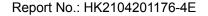




MID CH40 (802.11 a Mode with 5.2G)/5200 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
3647	62.73	-4.59	58.14	74	-15.86	peak			
3647	44.93	-4.59	40.34	54	-13.66	AVG			
10400	54.7	3.74	58.44	74	-15.56	peak			
10400 40.83 3.74 44.57 54 -9.43 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	62.38	-4.59	57.79	74	-16.21	peak		
3647	46.35	-4.59	41.76	54	-12.24	AVG		
10400	54.03	3.74	57.77	74	-16.23	peak		
10400 39.26 3.74 43 54 -11 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	61.73	-4.59	57.14	74	-16.86	peak		
3647	46.32	-4.59	41.73	54	-12.27	AVG		
10480	52.31	3.75	56.06	74	-17.94	peak		
10480	40.88	3.75	44.63	54	-9.37	AVG		
Domarki Factor	omark: Factor - Antenna Factor + Cable Loss - Pre amplifier							

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

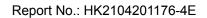
Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
3647	61.28	-4.59	56.69	74	-17.31	peak
3647	44.7	-4.59	40.11	54	-13.89	AVG
10480	51.39	3.75	55.14	74	-18.86	peak
10480	39.45	3.75	43.2	54	-10.8	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.





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	Jun. 18, 2020	Jun. 17, 2021			
Temperature and humidity meter	Boyang	HTC-1	HKE-077	Jun. 18, 2020	Jun. 17, 2021			
programmable power supply	Agilent	E3646A	HKE-092	Jun. 18, 2020	Jun. 17, 2021			

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

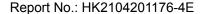




Test Result as follows:

Mode	Voltage (V)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
	5.75V	5179.88	-0.12	5239.977	-0.023
5.2G Band	5V	5179.89	-0.11	5239.968	-0.032
	4.25V	5179.96	-0.04	5239.947	-0.053

Mode	Temperature (°C)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
5.2G Band	-30	5180.06	0.06	5239.976	-0.024
	-20	5179.76	-0.24	5239.984	-0.016
	-10	5180.11	0.11	5239.969	-0.031
	0	5179.42	-0.58	5239.944	-0.056
	10	5180.04	0.04	5239.932	-0.068
	20	5180.23	0.23	5239.954	-0.046
	30	5179.77	-0.23	5239.977	-0.023
	40	5179.89	-0.11	5239.938	-0.062
	50	5180.11	0.11	5239.962	-0.038





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 professional installation is required and cannot be dismantled easily. The directional gains of antenna used for transmitting is1dBi.

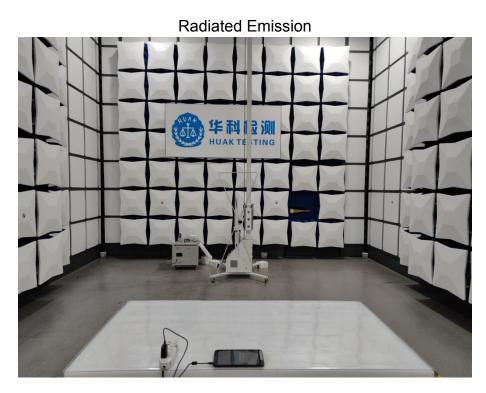
WIFI ANTENNA

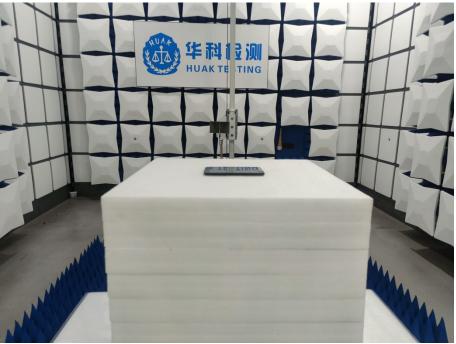






4.9. Photographs of Test Setup

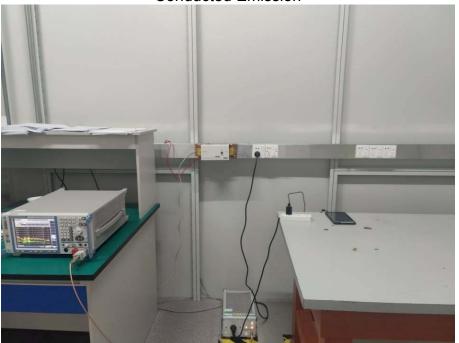


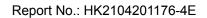














4.10. PHOTOS OF THE EUT

Reference to the report: ANNEX A	of external photos	and ANNEX B of inter	nal photos
<u>-</u>	End of test r	enort	