

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 ~Aug. 12, 2020

 Date of Report:
 Aug. 12, 2020

 Report Number:
 HK2007272064-4E



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 T4-82L
Standards	FCC Rules and Regulations Part 15 Subpart C Section 15.407 ANSI C63.10: 2013

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Date of Test	
Date (s) of performance of tests:	Jul. 31, 2020 ~Aug. 12, 2020
Date of Issue	Aug. 12, 2020
Test Result	Pass

Prepared by:

jan

Project Engineer

Reviewed by:

Project Supervisor

Approved by:

Nou Jason

Technical Director



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** Modifited History **

Revison	Description	Issued Data	Remark
Revsion 1.0	Initial Test Report Release	Aug. 12, 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(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



	02.11n(HT20) ac(HT20)	802.11n(HT40)/ 802.11ac(HT40)				c(HT80)
Channel	Frequency	Channel	Frequency	Channel	Frequency	
36	5180	38	5190	42	5210	
40	5200	46	5230			
44	5220					
48	5240					

2.2. Operation Frequency each of channel

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)

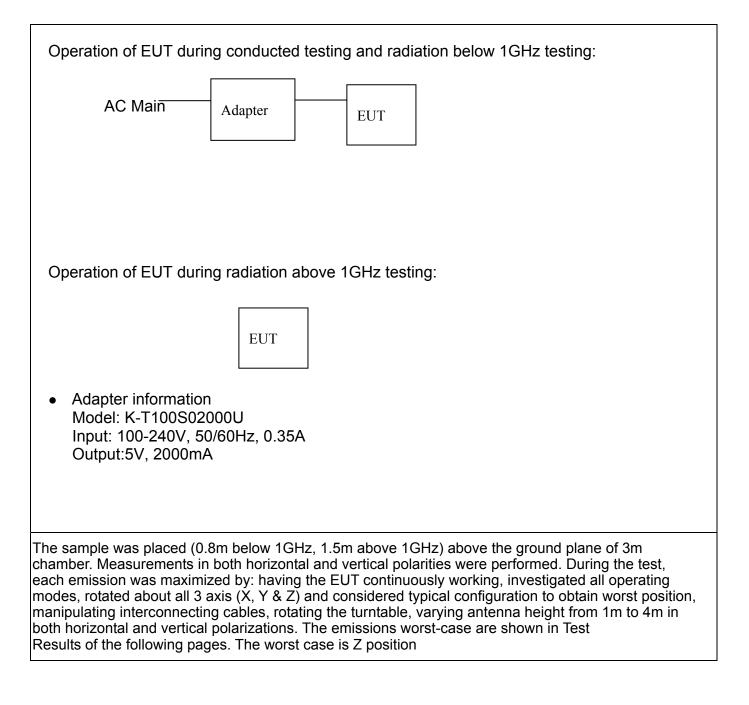
Band I (5150 - 5250 MHz)		
Channel Number	Channel	Frequency (MHz)
38	Low	5190
46	High	5230



For 802.11ac(HT80)

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

2.4. DESCRIPTION OF TEST SETUP





3. Genera Information

3.1. Test environment and mode

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

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
/	/	/	/	/

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.

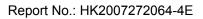


4. Test Results and Measurement Data

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) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50				
Test Setup:	Reference Plane 40cm 80cm LISN Filter AC power E.U.T AC power Filter 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 simulation power through a line (L.I.S.N.). This procession impedance for the million of the peripheral device power through a LIS coupling impedance refer to the block photographs). Both sides of A.C. conducted interferent emission, the relative the interface cables ANSI C63.10: 2013 of the conducted interface cables and the conducted interface cables and the conducted cables a	e impedance stab ovides a 500hm leasuring equipme es are also conne SN that provides with 500hm term diagram of the line are checke nce. In order to fir e positions of equ must be chang	ilization network /50uH coupling ent. ected to the main a 50ohm/50uH nination. (Please test setup and d for maximum d the maximum ipment and all of ed according to		
Test Result:	PASS				





4.1.2. Test Instruments

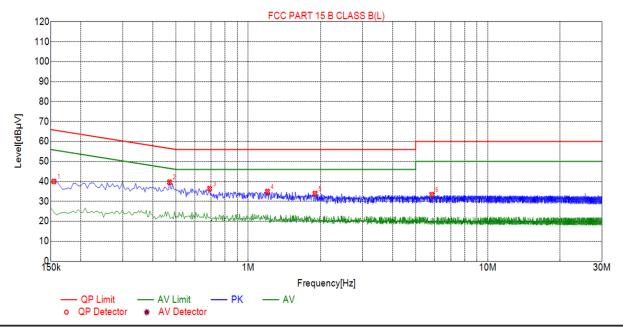
Conducted Emission Shielding Room Test Site (843)							
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due		
Receiver	R&S	ESCI 7	HKE-010	Dec. 26, 2019	Dec. 25, 2020		
LISN	R&S	ENV216	HKE-002	Dec. 26, 2019	Dec. 25, 2020		
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Dec. 26,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

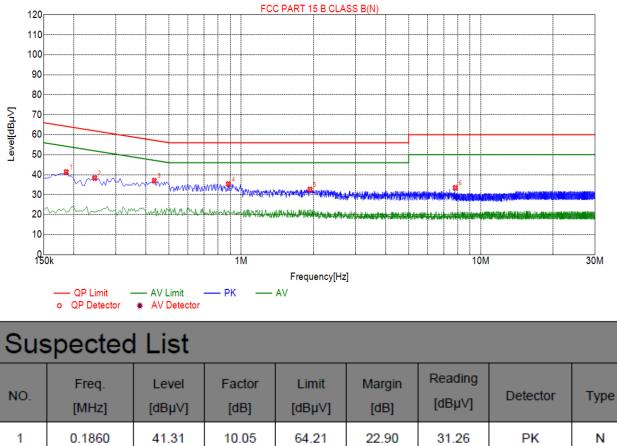


Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)

Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.1545	40.00	10.03	65.75	25.75	29.97	PK	L	
2	0.4695	39.61	10.04	56.52	16.91	29.57	PK	L	
3	0.6900	36.37	10.05	56.00	19.63	26.32	PK	L	
4	1.2030	34.92	10.09	56.00	21.08	24.83	PK	L	
5	1.9005	33.96	10.14	56.00	22.04	23.82	PK	L	
6	5.8380	33.39	10.24	60.00	26.61	23.15	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)

2 0.2445 38.33 10.03 61.94 23.61 28.30 PK Ν 3 0.4335 37.01 10.05 57.19 20.18 26.96 PK Ν 0.8835 35.33 10.06 PK 4 56.00 20.67 25.27 Ν 5 1.9365 32.61 10.14 56.00 23.39 22.47 PK Ν 6 7.8225 33.43 10.16 60.00 26.57 23.27 ΡK Ν

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:	+10log(1/x) X is du	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	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:	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:	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	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:	Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	 1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth RBW = 1% EBW, VBW≥3RBW, In order to make an accurate measurement. 4. 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	

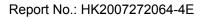
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



Test data Band I

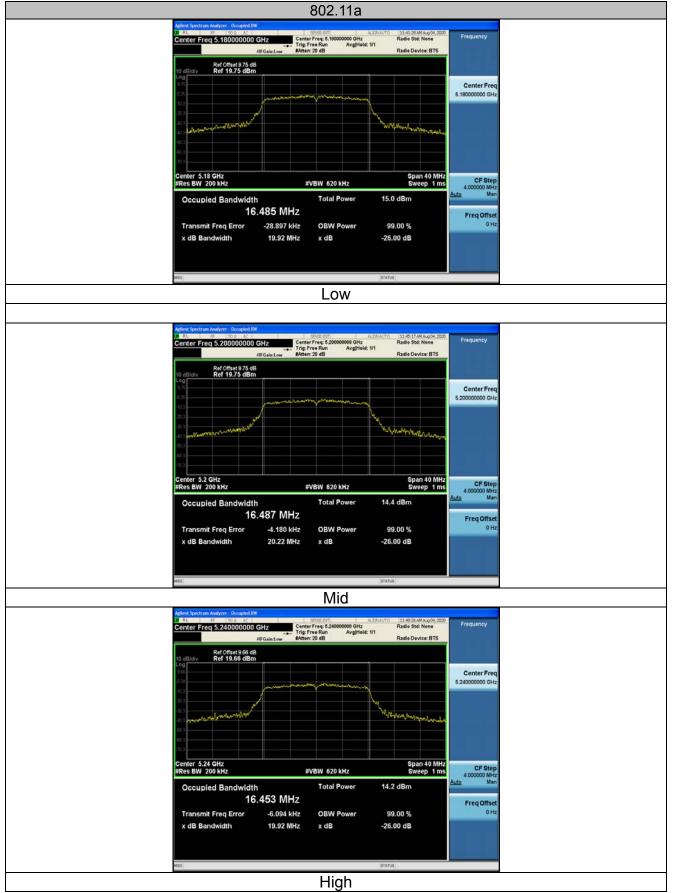
Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	Verdict		
11a	CH36	5180	19.92	PASS		
11a	CH40	5200	20.22	PASS		
11a	CH48	5240	19.92	PASS		
11n(HT20)	CH36	5180	20.97	PASS		
11n(HT20)	CH40	5200	20.55	PASS		
11n(HT20)	CH48	5240	20.08	PASS		
11n(HT40)	CH38	5190	40.61	PASS		
11n(HT40)	CH46	5230	40.54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

Test plots as follows:





Band I (5150 – 5250 MHz)



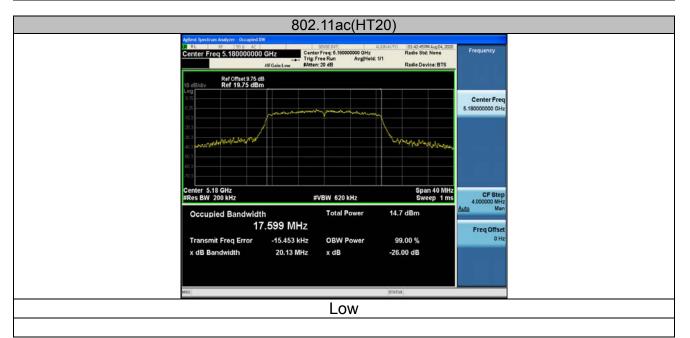




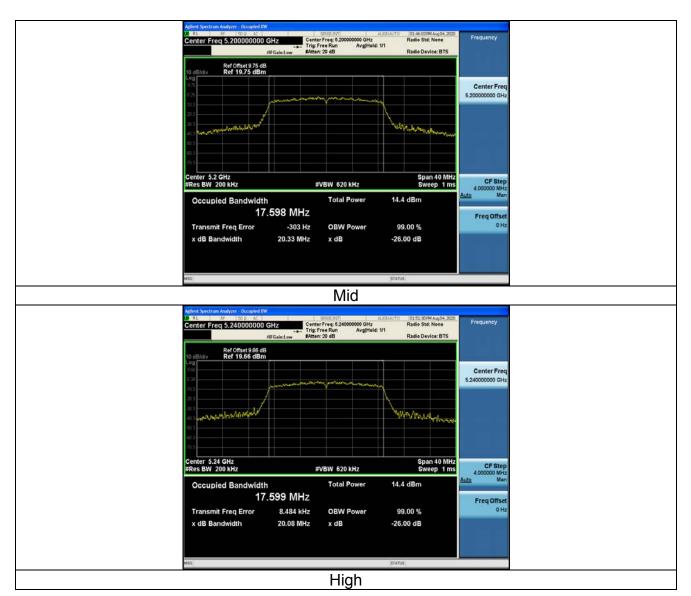


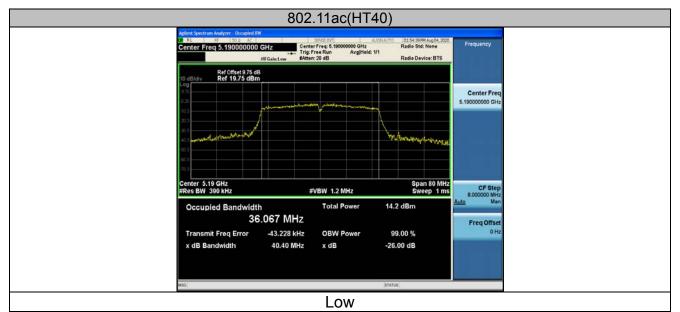
802.11n(HT40) 12:07:12PM Aug 04, 202 Radio Std: None Center Freq 5.19000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 20 dB Frequency Center Freq 5.190000000 GHz Radio Device: BTS Ref Offset 9.75 dB Ref 19.75 dBm Center Freq VARAPARA AND enter 5.19 GHz Res BW 390 kHz Span 80 MHz Sweep 1 ms CF Ste 8.000000 Mi 2 Mi #VBW 1.2 MHz Auto 14.3 dBm Total Power Occupied Bandwidth 36.121 MHz Freq Offs Transmit Freq Error -29.455 kHz **OBW Power** 99.00 % OH x dB Bandwidth 40.61 MHz x dB -26.00 dB Low 12:10:05PM Aug 04, 202 Radio Std: None Center Freq: 5.230000000 GHz Trig: Free Run Avg|Hold: 1/1 #Atten: 20 dB Frequency enter Freq 5.230000000 GHz Radio Device: BTS Ref Offset 9.66 dB Ref 19.66 dBm Center Freq "Landerson Property in AAD TYNAMANA enter 5.23 GHz Res BW 390 kHz Span 80 MHz Sweep 1 ms CF Ste 8.000000 MH 2 Mi #VBW 1.2 MHz uto 14.2 dBm Total Power Occupied Bandwidth 36.133 MHz Freq Offse Transmit Freq Error -21.457 kHz **OBW Power** 99.00 % OH x dB Bandwidth 40.54 MHz x dB -26.00 dB

High

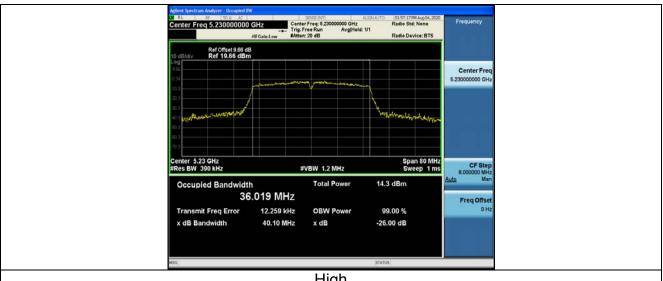




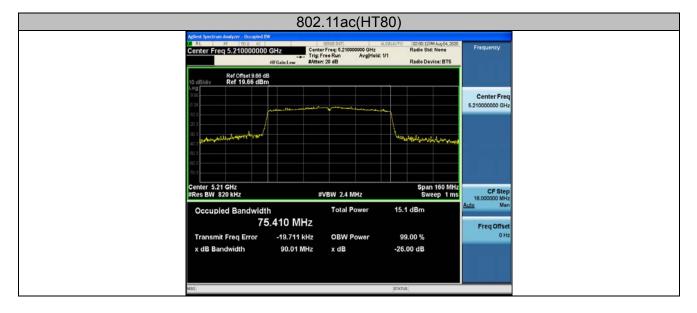








High





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:	 Transmitting mode with modulation 1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level. 4. 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).

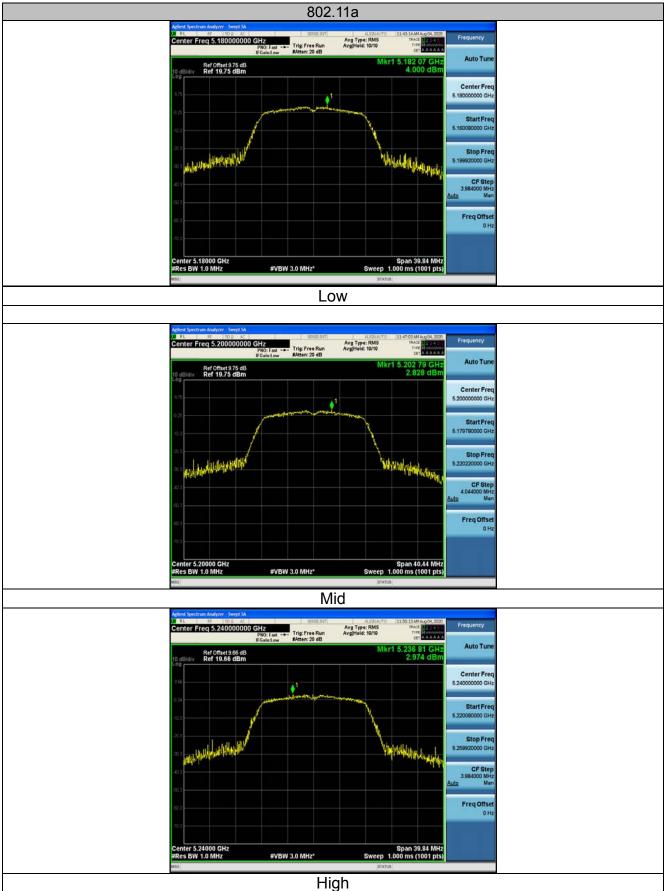


4.5.3. Test data

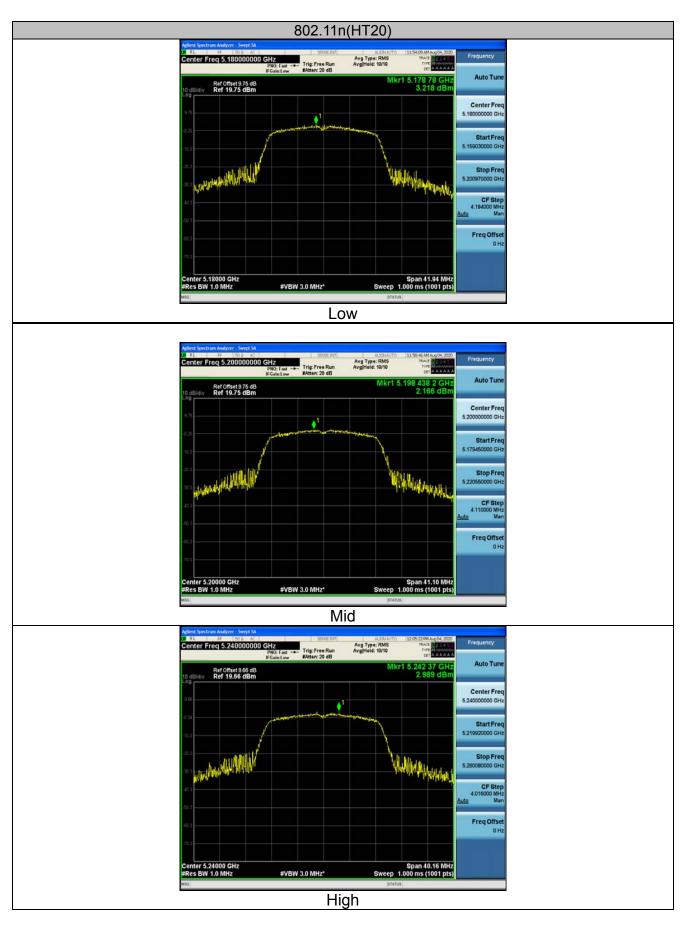
Configuration Band I (5150 - 5250 MHz)						
Mode	Test channel	Level [dBm/MHz]	Limit (dBm/MHz)	Result		
11a	CH36	4.00	11	PASS		
11a	CH40	2.83	11	PASS		
11a	CH48	2.97	11	PASS		
11n(HT20)	CH36	3.22	11	PASS		
11n(HT20)	CH40	2.17	11	PASS		
11n(HT20)	CH48	2.99	11	PASS		
11n(HT40)	CH38	-0.41	11	PASS		
11n(HT40)	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		



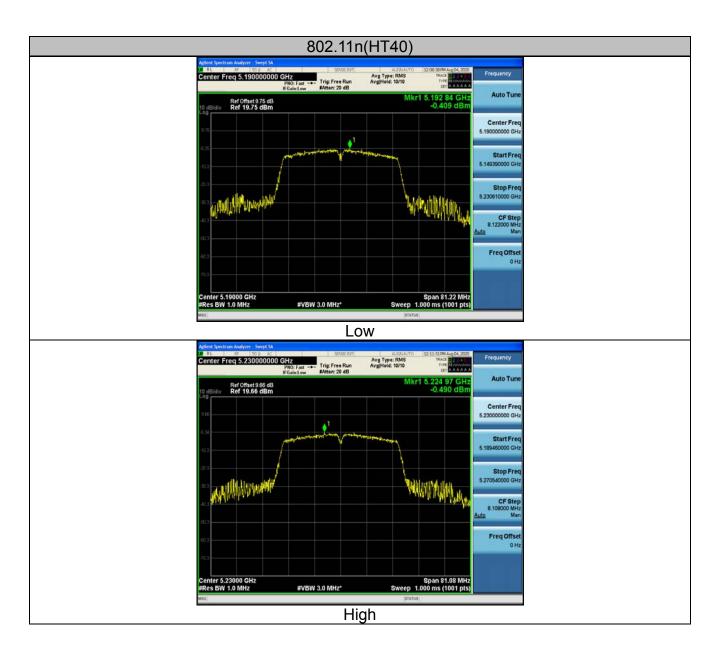
Band I (5150 – 5250 MHz)



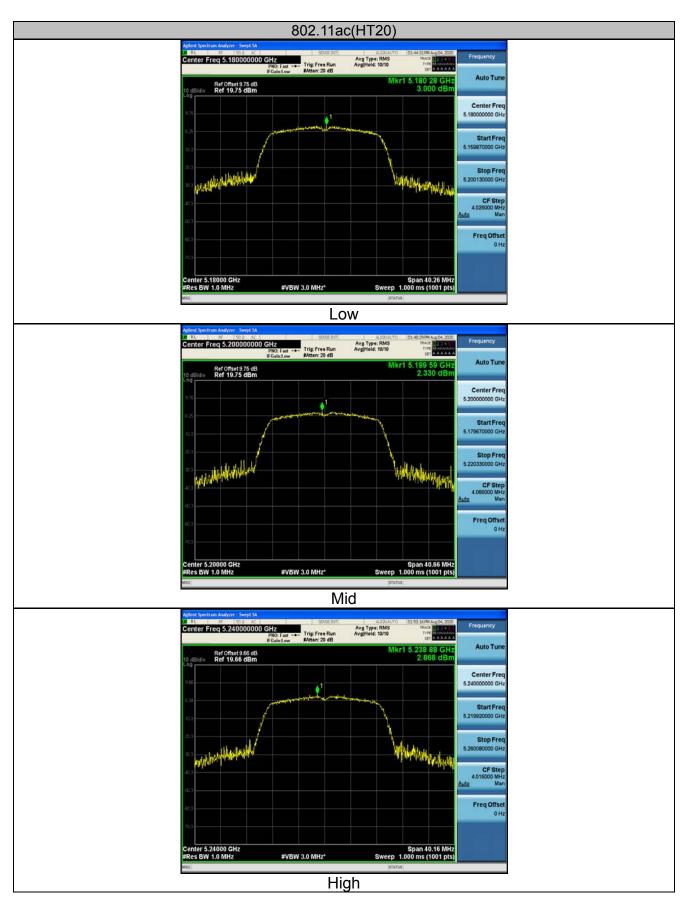




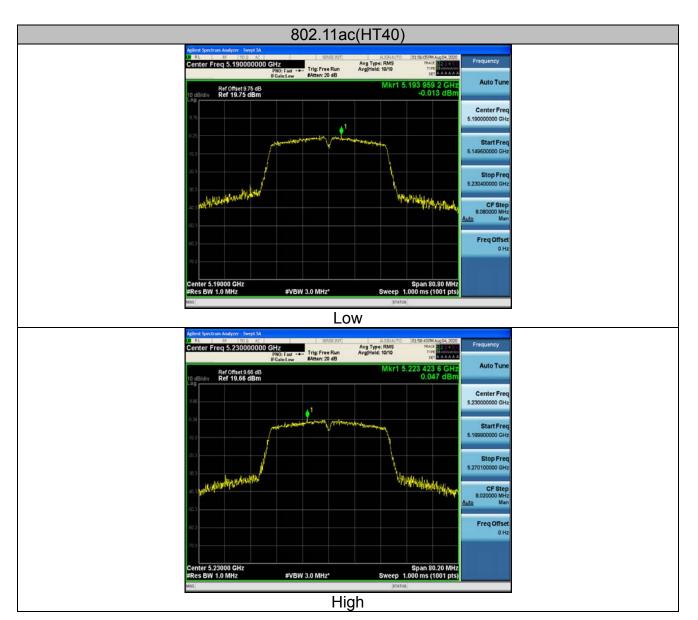
















4.6. Band edge

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 po			
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 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
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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	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	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delecior Type		
5150	52.34	-2.49	49.85	74	-24.15	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	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
5150	51.44	-2.49	48.95	74	-25.05	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)	Delector Type		
5350	51.23	-2.11	49.12	74	-24.88	peak		
5350	/	-2.11	/	54	/	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)	Delector Type		
5350	51.33	-2.11	49.22	74	-24.78	peak		
5350	/	-2.11	1	54	1	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	54.55	-2.49	52.06	74	-21.94	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			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	51.43	-2.49	48.94	74	-25.06	peak		
5150	1	-2.49	1	54	1	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)	Delector Type		
5350	50.55	-2.11	48.44	74	-25.56	peak		
5350	/	-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)	Delector 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.							



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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type			
5150	52.76	-2.49	50.27	74	-23.73	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			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5150	51.33	-2.49	48.84	74	-25.16	peak		
5150	1	-2.49	1	54	1	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)	Delector Type		
5350	51.67	-2.11	49.56	74	-24.44	peak		
5350	/	-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)	Delector Type
5350	51.66	-2.11	49.55	74	-24.45	peak
5350	1	-2.11	/	54	1	AVG
Remark: Factor	= Antenna Factor	+ Cable Loss –	Pre-amplifier.			



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

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type		
5150	54.43	-2.49	51.94	74	-22.06	peak		
5150	1	-2.49	1	54	1	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)	
5150	52.77	-2.49	50.28	74	-23.72	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)	Delector Type		
5350	52.38	-2.11	50.27	74	-23.73	peak		
5350	/	-2.11	1	54	/	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)	Delector Type		
5350	50.64	-2.11	48.53	74	-25.47	peak		
5350	/	-2.11	/	54	/	AVG		
Remark: Factor	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



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)	Delector Type		
5150	53.32	-2.49	50.83	74	-23.17	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	Detector Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type	
5150	51.78	-2.49	49.29	74	-24.71	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)	Delector Type		
5350	55.66	-2.11	53.55	74	-20.45	peak		
5350	/	-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)	Delector Type		
5350	51.43	-2.11	49.32	74	-24.68	peak		
5350	1	-2.11	/	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	53.77	-2.49	51.28	74	-22.72	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	Detector Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type	
5150	51.45	-2.49	48.96	74	-25.04	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			
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type		
5350	51.76	-2.11	49.65	74	-24.35	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)	Delector Type		
5350	50.22	-2.11	48.11	74	-25.89	peak		
5350	/	-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	Sec	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 w	ith r	nodulati	ion		
	Frequency	Detector	r	RBW	VBW	Remark	
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-pea Quasi-pea		200Hz 9kHz	1kHz 30kHz	Quasi-peak Value Quasi-peak Value	
·	30MHz-1GHz	Quasi-pea	ak	120KHz	300KHz	Quasi-peak Value	
	Above 1GHz	Peak		1MHz	3MHz	Peak Value	
		Peak		1MHz	10Hz	Average Value	
Limit:	per FCC Par	t15.205 :	sha h li Fie (mi 24(30 100 150 500	Il compl mits se Id Strength icrovolts/m 20/F(KHz) 200/F(KHz 20 20 20 20 20 20 20 20 20 20 20 20 20	y with th t forth i eter)	restricted bands n § 15.209 as Measurement Distance (meters) 300 30 30 30 30 30 30 30 30 3	
Test setup:	For radiated emissions below 30MHz						



T

	Ant, feed point UT UT UT UT Tura Table Ground Plane
	Receiver Amp.
	Above 1GHz
	Ant. feed point I - 4 m Ground Plane
	Receiver Amp.
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, whichwas 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. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the
	 maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be



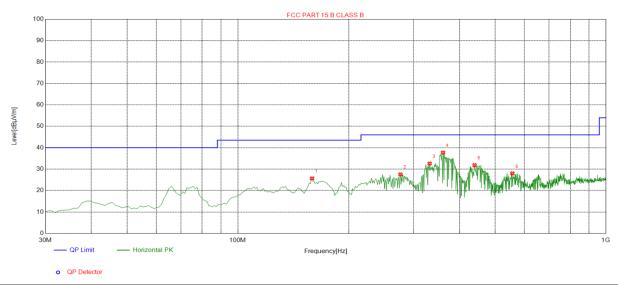
	stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.
Test results:	PASS



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

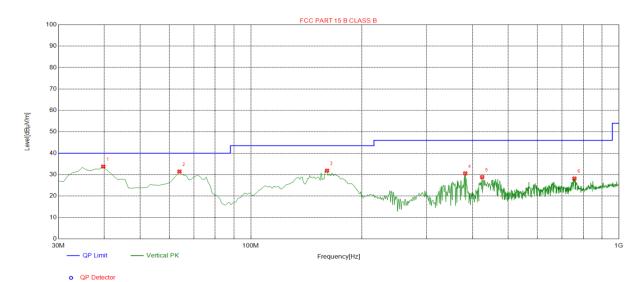


Suspe	Suspected List											
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]				
1	159.1391	-18.28	43.92	25.64	43.50	17.86	100	52	Horizontal			
2	276.6266	-13.39	40.93	27.54	46.00	18.46	100	33	Horizontal			
3	331.9720	-11.60	44.17	32.57	46.00	13.43	100	0	Horizontal			
4	361.1011	-11.31	48.98	37.67	46.00	8.33	100	236	Horizontal			
5	439.7498	-9.43	41.27	31.84	46.00	14.16	100	98	Horizontal			
6	557.2372	-6.76	34.78	28.02	46.00	17.98	100	124	Horizontal			

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



Vertical



SU	snec	ted	IST	

Suspe	Suspected List										
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delority		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	39.7097	-14.64	48.40	33.76	40.00	6.24	100	326	Vertical		
2	63.9840	-16.16	47.61	31.45	40.00	8.55	100	342	Vertical		
3	161.0811	-18.12	49.99	31.87	43.50	11.63	100	172	Vertical		
4	382.4625	-10.78	41.38	30.60	46.00	15.40	100	137	Vertical		
5	425.1852	-9.94	38.79	28.85	46.00	17.15	100	108	Vertical		
6	757.2573	-3.55	31.76	28.21	46.00	17.79	100	360	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

Uarizantal	•
Horizontal	i - 1

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Delector Type
3647	61.33	-4.59	56.74	74	-17.26	peak
3647	48.54	-4.59	43.95	54	-10.05	AVG
10360	52.65	3.74	56.39	74	-17.61	peak
10360	42.55	3.74	46.29	54	-7.71	AVG
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	62.67	-4.59	58.08	74	-15.92	peak				
3647	48.43	-4.59	43.84	54	-10.16	AVG				
10360	51.72	3.74	55.46	74	-18.54	peak				
10360	41.44	3.74	45.18	54	-8.82	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				
3647	62.63	-4.59	58.04	74	-15.96	peak				
3647	45.55	-4.59	40.96	54	-13.04	AVG				
10400	54.48	3.74	58.22	74	-15.78	peak				
10400	41.38	3.74	45.12	54	-8.88	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)	Delector Type				
3647	62.72	-4.59	58.13	74	-15.87	peak				
3647	46.43	-4.59	41.84	54	-12.16	AVG				
10400	53.64	3.74	57.38	74	-16.62	peak				
10400	40.55	3.74	44.29	54	-9.71	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	Detector Type				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type				
3647	62.77	-4.59	58.18	74	-15.82	peak				
3647	47.43	-4.59	42.84	54	-11.16	AVG				
10480	53.73	3.75	57.48	74	-16.52	peak				
10480	41.66	3.75	45.41	54	-8.59	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)	Delector Type
3647	61.53	-4.59	56.94	74	-17.06	peak
3647	45.22	-4.59	40.63	54	-13.37	AVG
10480	52.43	3.75	56.18	74	-17.82	peak
10480	40.66	3.75	44.41	54	-9.59	AVG

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

Remark:

(1) Measuring frequencies from 1 GHz to the 40 GHz $_{\circ}$

(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 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).



Test Result as follows:

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

Mode	Temperature (℃)	FHL (5180MHz)	Deviation (KHz)	FHH (5240MHz)	Deviation (KHz)
	-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
5.2G Band	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

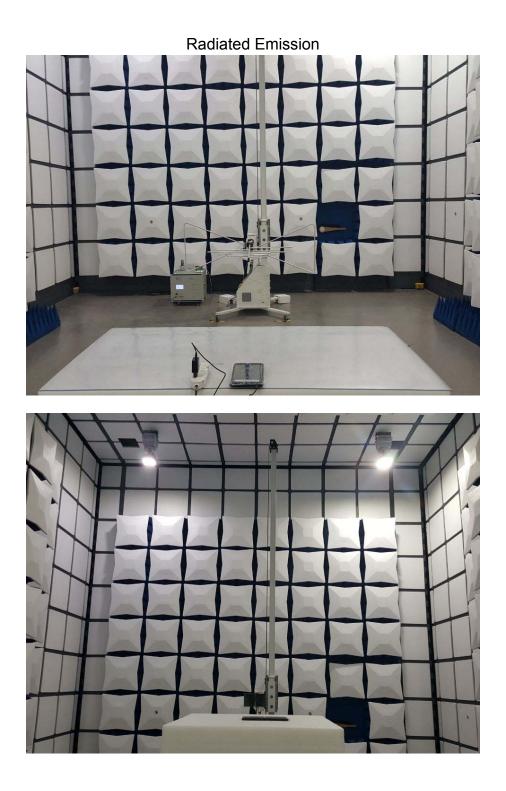
The antenna used in this product is a Internal Antenna which professional installation is required and cannot be dismantled easily. The directional gains of antenna used for transmitting is1dBi.

WIFI ANTENNA





4.9. Photographs of Test Setup





Conducted Emission





4.10. PHOTOS OF THE EUT

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

-----End of test report-----