



FCC TEST REPORT

**Test report
On Behalf of
LAVA International Limited
For
Mobile Phone
Model No.: LE000Z93P
FCC ID: 2ARTXLE000Z93P**

Prepared for : LAVA International Limited
A-56, Sector 64, Noida 201301, U.P., India

Prepared By : Shenzhen HUAKE Testing Technology Co., Ltd.
1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,
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Date of Test: Aug. 27, 2020~Sep. 02, 2020
Date of Report: Sep. 02, 2020
Report Number: HK2008282384-5E



TEST RESULT CERTIFICATION

Applicant's name: LAVA International Limited
Address: A-56, Sector 64, Noida 201301, U.P., India
Manufacture's Name.....: LAVA International Limited
Address: A-56, Sector 64, Noida 201301, U.P., India

Product description

Trade Mark: LAVA
Product name.....: Mobile Phone
Model and/or type reference .: LE000Z93P

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: Aug. 27, 2020~Sep. 02, 2020
Date of Issue.....: Sep. 02, 2020
Test Result.....: **Pass**

Testing Engineer : 

(Gary Qian)

Technical Manager : 

(Eden Hu)

Authorized Signatory : 

(Jason Zhou)



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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Sep. 02, 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)	PASS
26dB Emission Bandwidth & 99% Occupied Bandwidth	§15.407(a)	N/A
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 HUAKE 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 expanded 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	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$



2. EUT Description

2.1. GENERAL DESCRIPTION OF EUT

Equipment	Mobile Phone
Model Name	LE000Z93P
Serial No.	N/A
Trade Mark	LAVA
Model Difference	N/A
FCC ID	2ARTXLE000Z93P
Operation Frequency:	IEEE 802.11a/n/ac(HT20)5.745GHz-5.825GHz IEEE 802.11n/ac(HT40)5.755GHz-5.795GHz IEEE 802.11ac(HT80) 5.775GHz
Modulation Technology:	IEEE 802.11a/n/ac
Modulation Type	OFDM
Antenna Type	Internal Antenna
Antenna Gain	1dBi
Power Source	DC 3.85V from battery or DC 5V from adapter
Power Supply:	DC 3.85V from battery or DC 5V from adapter



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
149	5745	151	5755	155	5775
153	5765	159	5790		
157	5785				
161	5805				
165	5825				

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:

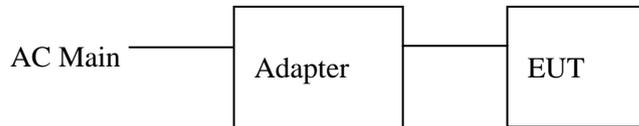
2.3. Operation of EUT during testing

Band IV (5725 - 5850 MHz)		
For 802.11a/ n HT20/ac HT 20		
Channel Number	Channel	Frequency (MHz)
149	Low	5745
157	Mid	5785
165	High	5825
For 802.11n HT40/ac HT 40		
Channel Number	Channel	Frequency (MHz)
151	Low	5755
159	High	5795
For 802.11n HT40/ac HT 40		
Channel Number	Channel	Frequency (MHz)
155	-	5775

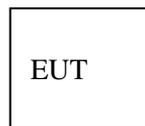


2.4. DESCRIPTION OF TEST SETUP

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%)
<p>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.</p>	

<p>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:</p>	
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:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	<p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Tx Mode														
Test Procedure:	<ol style="list-style-type: none"> 1. 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. 2. 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). 3. 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).

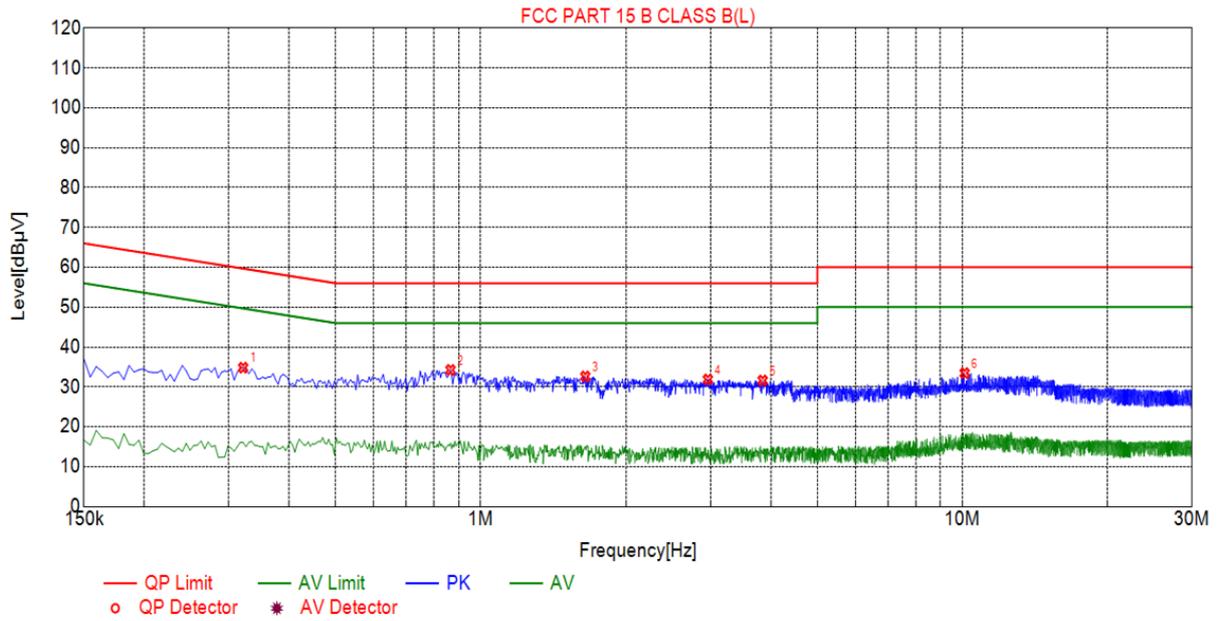


TEST RESULTS

PASS

All the test modes completed for test. only the worst result of (802.11a at 5745MHz) was reported as below:

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	Type
1	0.3210	34.83	20.05	59.68	24.85	14.78	PK	L
2	0.8655	34.26	20.06	56.00	21.74	14.20	PK	L
3	1.6485	32.63	20.12	56.00	23.37	12.51	PK	L
4	2.9625	31.88	20.21	56.00	24.12	11.67	PK	L
5	3.8490	31.61	20.25	56.00	24.39	11.36	PK	L
6	10.1130	33.46	20.06	60.00	26.54	13.40	PK	L

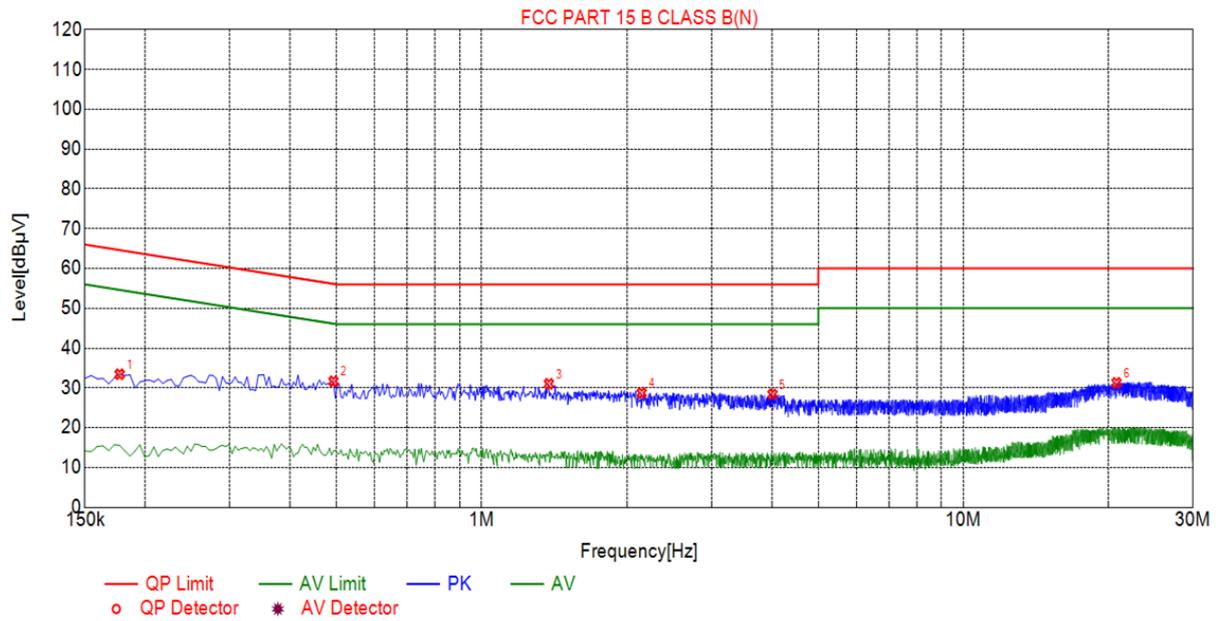
Remark: Margin = Limit – Level

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)



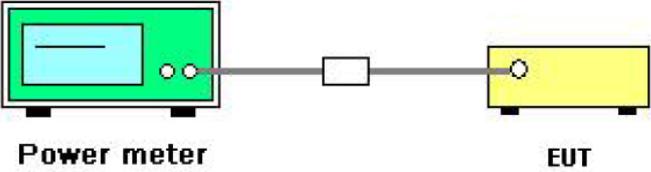
Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1770	33.44	20.05	64.63	31.19	13.39	PK	N
2	0.4920	31.66	20.04	56.13	24.47	11.62	PK	N
3	1.3785	31.02	20.11	56.00	24.98	10.91	PK	N
4	2.1480	28.72	20.16	56.00	27.28	8.56	PK	N
5	4.0155	28.37	20.25	56.00	27.63	8.12	PK	N
6	20.8050	31.28	20.13	60.00	28.72	11.15	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:	<table border="1"> <thead> <tr> <th>Frequency Band (MHz)</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>5725-5850</td> <td>1 W</td> </tr> </tbody> </table>	Frequency Band (MHz)	Limit	5725-5850	1 W
	Frequency Band (MHz)	Limit			
5725-5850	1 W				
Test Setup:	 <p style="text-align: center;"> Power meter EUT </p>				
Test Mode:	Transmitting mode with modulation				
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a 2. 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. 3. Set to the maximum power setting and enable the EUT transmit continuously. 5. Measure the conducted output power and record the results in the test report. 				
Test Result:	PASS				
Remark:	<p>Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0</p> <p>Conducted output power= measurement power</p>				
<p>Note: The test double antenna is simultaneously transmitted, and the transmitting module is the same.</p>					



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 IV (5725 - 5850 MHz)				
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
11a	CH149	12.00	30	PASS
11a	CH157	10.67	30	PASS
11a	CH165	12.00	30	PASS
11n HT20	CH149	10.03	30	PASS
11n HT20	CH157	10.62	30	PASS
11n HT20	CH165	11.66	30	PASS
11n HT40	CH151	11.21	30	PASS
11n HT40	CH159	11.71	30	PASS
11ac HT20	CH149	10.05	30	PASS
11ac HT20	CH157	10.59	30	PASS
11ac HT20	CH165	11.64	30	PASS
11ac HT40	CH151	11.18	30	PASS
11ac HT40	CH159	11.59	30	PASS
11ac HT80	CH155	9.83	30	PASS



Test data

Band IV (5725 - 5850 MHz)					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
11a	CH149	5745	14.07	0.5	PASS
11a	CH157	5785	14.14	0.5	PASS
11a	CH165	5825	15.15	0.5	PASS
11n HT20	CH149	5745	15.14	0.5	PASS
11n HT20	CH157	5785	15.15	0.5	PASS
11n HT20	CH165	5825	15.13	0.5	PASS
11n HT40	CH151	5755	35.19	0.5	PASS
11n HT40	CH159	5795	35.18	0.5	PASS
11ac HT20	CH149	5745	15.07	0.5	PASS
11ac HT20	CH157	5785	15.05	0.5	PASS
11ac HT20	CH165	5825	15.10	0.5	PASS
11ac HT40	CH151	5755	35.18	0.5	PASS
11ac HT40	CH159	5795	35.19	0.5	PASS
11ac HT80	CH155	5775	75.36	0.5	PASS

Test plots as follows:



Band IV (5725 – 5850 MHz)

802.11a



Low



Mid



High



802.11n HT20



Low



Mid



High



802.11n HT40



Low



High

802.11ac HT20



Low



Middle



High
802.11ac HT40



Low



High
802.11ac HT80





4.5.3. Test data

Configuration Band IV (5725 - 5850 MHz)						
Mode	Test channel	Level [dBm/510kHz]	$10\log(500/510)$	Power Spectral Density	Limit (dBm/500kHz)	Result
11a	CH149	1.34	-0.086	1.254	30	PASS
11a	CH157	-1.04	-0.086	-1.126	30	PASS
11a	CH165	0.94	-0.086	0.854	30	PASS
11n HT20	CH149	-1.90	-0.086	-1.986	30	PASS
11n HT20	CH157	-0.31	-0.086	-0.396	30	PASS
11n HT20	CH165	0.64	-0.086	0.554	30	PASS
11n HT40	CH151	-3.71	-0.086	-3.796	30	PASS
11n HT40	CH159	-3.41	-0.086	-3.496	30	PASS
11ac HT20	CH149	-2.02	-0.086	-2.106	30	PASS
11ac HT20	CH157	-0.91	-0.086	-0.996	30	PASS
11ac HT20	CH165	-0.31	-0.086	-0.396	30	PASS
11ac HT40	CH151	-3.47	-0.086	-3.556	30	PASS
11ac HT40	CH159	-3.23	-0.086	-3.316	30	PASS
11ac HT80	CH155	-8.39	-0.086	-8.476	30	PASS

Test plots as follows:



Band IV (5725 – 5850 MHz)

802.11a



Low



Mid



High



802.11n HT20



Low



Mid



High



802.11n HT40



Low



High

802.11ac HT20



Low



Middle



High

802.11ac HT40



Low



High

802.11ac HT80





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:	<p>(1) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(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 increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.</p>
Test Setup:	<p>The diagram illustrates the test setup. An Equipment Under Test (EUT) is placed on a turn table that is 1.5 meters high. The turn table is positioned 3 meters away from an antenna tower. The antenna tower is 1-4 meters high. The antenna is mounted on the tower, and its feed point is labeled. The antenna is connected to a Receiver and an Amplifier (Amp.) on the ground plane. The ground plane is indicated by a horizontal line at the bottom of the diagram.</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 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 reported in a data sheet.
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	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

Operation Mode: 802.11a Mode with 5.8G TX CH Low
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	57.15	-2.06	55.09	68.2	-13.11	peak
5700	88.56	-1.96	86.6	105.2	-18.6	peak
5720	92.22	-2.87	89.35	110.8	-21.45	peak
5725	110.77	-2.14	108.63	122.2	-13.57	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	57.57	-2.06	55.51	68.2	-12.69	peak
5700	86.65	-1.96	84.69	105.2	-20.51	peak
5720	94.12	-2.87	91.25	110.8	-19.55	peak
5725	111.49	-2.14	109.35	122.2	-12.85	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	110.76	-1.97	108.79	122.2	-13.41	peak
5855	93.24	-2.13	91.11	110.8	-19.69	peak
5875	88.21	-2.65	85.56	105.2	-19.64	peak
5925	52.2	-2.28	49.92	68.2	-18.28	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	113.65	-1.97	111.68	122.2	-10.52	peak
5855	92.65	-2.13	90.52	110.8	-20.28	peak
5875	86.97	-2.65	84.32	105.2	-20.88	peak
5925	54.67	-2.28	52.39	68.2	-15.81	peak

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



Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	57.52	-2.06	55.46	68.2	-12.74	peak
5700	90.63	-1.96	88.67	105.2	-16.53	peak
5720	95.78	-2.87	92.91	110.8	-17.89	peak
5725	112.58	-2.14	110.44	122.2	-11.76	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	60.92	-2.06	58.86	68.2	-9.34	peak
5700	96.09	-1.96	94.13	105.2	-11.07	peak
5720	93.17	-2.87	90.3	110.8	-20.5	peak
5725	111.76	-2.14	109.62	122.2	-12.58	peak

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



Operation Mode: TX CH High with 5.8G
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	109.2	-1.97	107.23	122.2	-14.97	peak
5855	95.44	-2.13	93.31	110.8	-17.49	peak
5875	90	-2.65	87.35	105.2	-17.85	peak
5925	53.43	-2.28	51.15	68.2	-17.05	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	109.5	-1.97	107.53	122.2	-14.67	peak
5855	94.5	-2.13	92.37	110.8	-18.43	peak
5875	85.31	-2.65	82.66	105.2	-22.54	peak
5925	56.94	-2.28	54.66	68.2	-13.54	peak

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



Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	57.47	-2.06	55.41	68.2	-12.79	peak
5700	93.49	-1.96	91.53	105.2	-13.67	peak
5720	92.24	-2.87	89.37	110.8	-21.43	peak
5725	111.68	-2.14	109.54	122.2	-12.66	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	60.58	-2.06	58.52	68.2	-9.68	peak
5700	96.68	-1.96	94.72	105.2	-10.48	peak
5720	89.29	-2.87	86.42	110.8	-24.38	peak
5725	111.82	-2.14	109.68	122.2	-12.52	peak

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



Operation Mode: TX CH High with 5.8G
Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	111.63	-1.97	109.66	122.2	-12.54	peak
5855	94.17	-2.13	92.04	110.8	-18.76	peak
5875	87.88	-2.65	85.23	105.2	-19.97	peak
5925	53.89	-2.28	51.61	68.2	-16.59	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	108.75	-1.97	106.78	122.2	-15.42	peak
5855	91.49	-2.13	89.36	110.8	-21.44	peak
5875	85.17	-2.65	82.52	105.2	-22.68	peak
5925	53.63	-2.28	51.35	68.2	-16.85	peak

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



Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	57.46	-2.06	55.4	68.2	-12.8	peak
5700	88.19	-1.96	86.23	105.2	-18.97	peak
5720	93.83	-2.87	90.96	110.8	-19.84	peak
5725	110.17	-2.14	108.03	122.2	-14.17	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	57.35	-2.06	55.29	68.2	-12.91	peak
5700	90.63	-1.96	88.67	105.2	-16.53	peak
5720	93.75	-2.87	90.88	110.8	-19.92	peak
5725	110.01	-2.14	107.87	122.2	-14.33	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	110.59	-1.97	108.62	122.2	-13.58	peak
5855	94.1	-2.13	91.97	110.8	-18.83	peak
5875	88.76	-2.65	86.11	105.2	-19.09	peak
5925	54.17	-2.28	51.89	68.2	-16.31	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	109.8	-1.97	107.83	122.2	-14.37	peak
5855	89.53	-2.13	87.4	110.8	-23.4	peak
5875	85.01	-2.65	82.36	105.2	-22.84	peak
5925	55.97	-2.28	53.69	68.2	-14.51	peak

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



Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	57.42	-2.06	55.36	68.2	-12.84	peak
5700	88.52	-1.96	86.56	105.2	-18.64	peak
5720	93.22	-2.87	90.35	110.8	-20.45	peak
5725	110.77	-2.14	108.63	122.2	-13.57	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5650	56.91	-2.06	54.85	68.2	-13.35	peak
5700	86.35	-1.96	84.39	105.2	-20.81	peak
5720	93.35	-2.87	90.48	110.8	-20.32	peak
5725	111.03	-2.14	108.89	122.2	-13.31	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	113.08	-1.97	111.11	122.2	-11.09	peak
5855	90.54	-2.13	88.41	110.8	-22.39	peak
5875	86.5	-2.65	83.85	105.2	-21.35	peak
5925	54.76	-2.28	52.48	68.2	-15.72	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	111.94	-1.97	109.97	122.2	-12.23	peak
5855	92.06	-2.13	89.93	110.8	-20.87	peak
5875	87.84	-2.65	85.19	105.2	-20.01	peak
5925	65.62	-2.28	63.34	68.2	-4.86	peak

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



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	57.82	-2.06	55.76	68.2	-12.44	peak
5700	86.86	-1.96	84.9	105.2	-20.3	peak
5720	94.13	-2.87	91.26	110.8	-19.54	peak
5725	111.56	-2.14	109.42	122.2	-12.78	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
5650	58.02	-2.06	55.96	68.2	-12.24	peak
5700	91.12	-1.96	89.16	105.2	-16.04	peak
5720	94.57	-2.87	91.7	110.8	-19.1	peak
5725	111.48	-2.14	109.34	122.2	-12.86	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	110.3	-1.97	108.33	122.2	-13.87	peak
5855	92.76	-2.13	90.63	110.8	-20.17	peak
5875	85.82	-2.65	83.17	105.2	-22.03	peak
5925	51.65	-2.28	49.37	68.2	-18.83	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
5850	111.86	-1.97	109.89	122.2	-12.31	peak
5855	93.44	-2.13	91.31	110.8	-19.49	peak
5875	81.86	-2.65	79.21	105.2	-25.99	peak
5925	56.03	-2.28	53.75	68.2	-14.45	peak

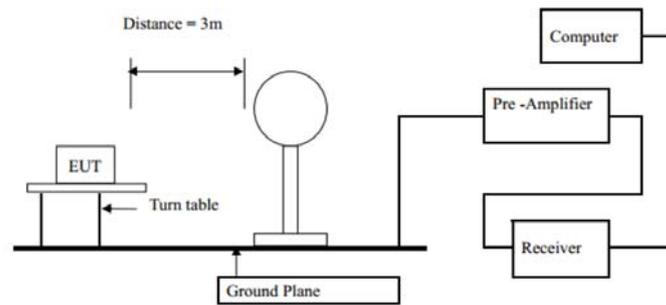
Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.



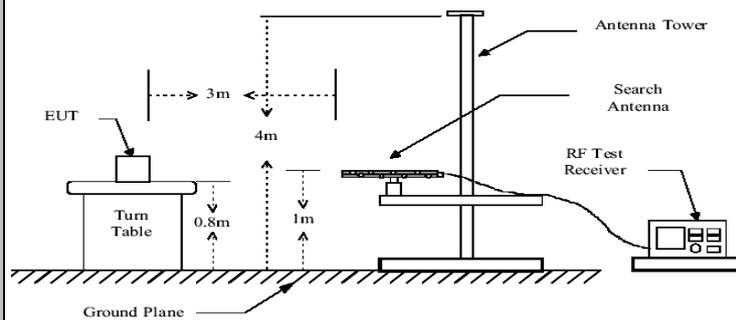
4.7. Spurious Emission

4.7.1.1. Test Specification

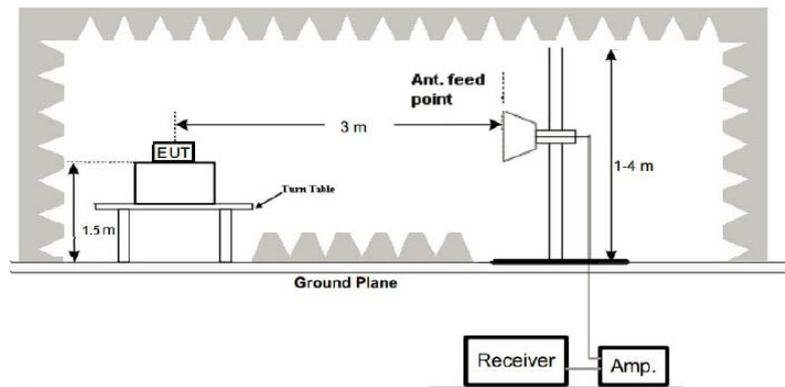
Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
Test Method:	KDB 789033 D02 v02r01				
Frequency Range:	9kHz to 40GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Transmitting mode with modulation				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit:	<p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(4) For transmitters operating in the 5.725-5.85 GHz band:</p> <p>(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 increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.</p>				
Test setup:	For radiated emissions below 30MHz				



30MHz to 1GHz



Above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table 0.8 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 rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect



	<p>Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>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, quasi-peak or average method as specified and then reported in a data sheet.</p>
Test results:	PASS

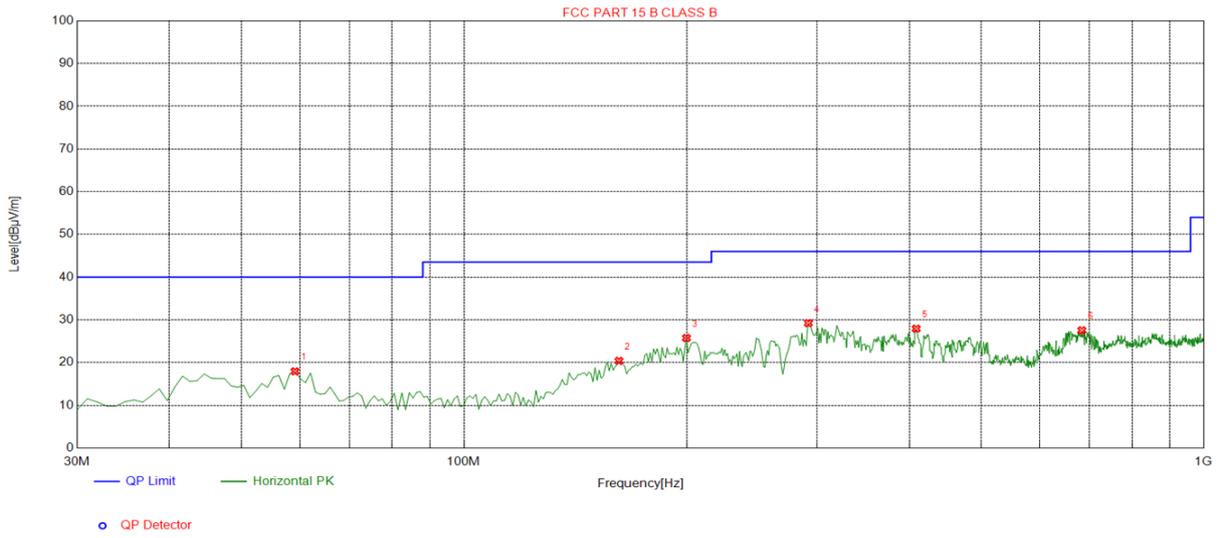


4.7.2. Test Data

Remark: All the test modes completed for test. The worst case of Radiated Emission is CH 149; the test data of this mode was reported.

Below 1GHz

Horizontal

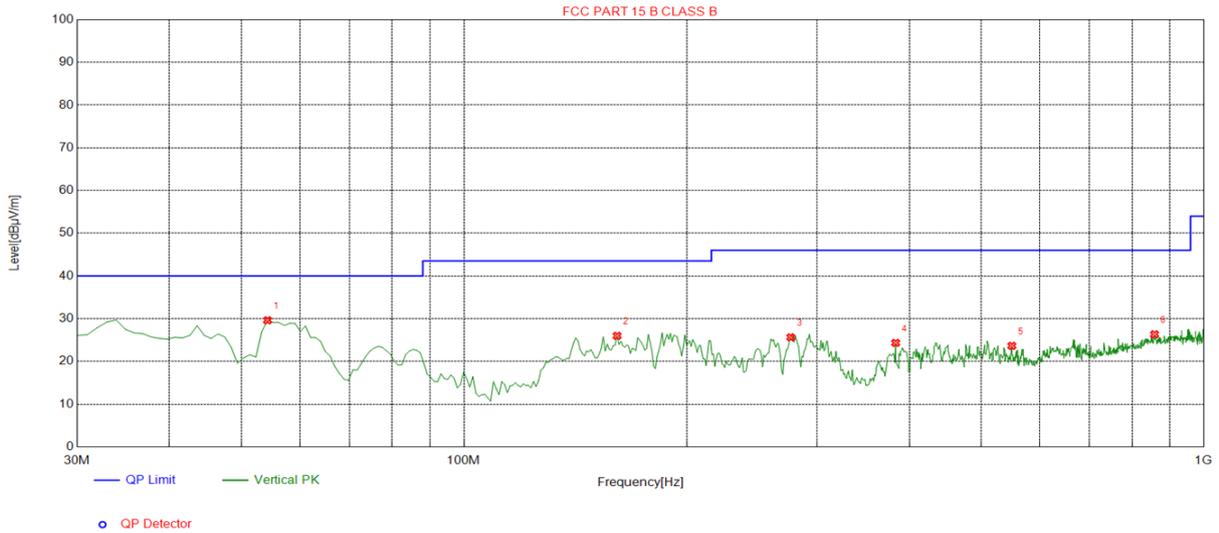


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	59.1291	-15.03	32.96	17.93	40.00	22.07	100	260	Horizontal
2	162.0521	-18.03	38.42	20.39	43.50	23.11	100	282	Horizontal
3	199.9199	-15.07	40.81	25.74	43.50	17.76	100	298	Horizontal
4	292.1622	-12.82	42.05	29.23	46.00	16.77	100	80	Horizontal
5	408.6787	-10.24	38.17	27.93	46.00	18.07	100	301	Horizontal
6	684.4344	-5.03	32.57	27.54	46.00	18.46	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	54.2743	-14.30	43.91	29.61	40.00	10.39	100	3	Vertical
2	161.0811	-18.12	44.10	25.98	43.50	17.52	100	198	Vertical
3	276.6266	-13.39	39.02	25.63	46.00	20.37	100	165	Vertical
4	383.4334	-10.76	35.09	24.33	46.00	21.67	100	178	Vertical
5	550.4404	-6.95	30.59	23.64	46.00	22.36	100	75	Vertical
6	858.2382	-2.50	28.83	26.33	46.00	19.67	100	265	Vertical

Remark: Factor = Cable loss + Antenna factor – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
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- Note:** 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor
 2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

**Above 1GHz**

LOW CH 149 (802.11 a Mode with 5.8G)/5745

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3647	63.95	-4.59	59.36	74	-14.64	peak
3647	47.93	-4.59	43.34	54	-10.66	AVG
11570	50.78	4.21	54.99	74	-19.01	peak
11570	37.44	4.21	41.65	54	-12.35	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
3647	63.23	-4.59	58.64	74	-15.36	peak
3647	48.34	-4.59	43.75	54	-10.25	AVG
11570	54.37	4.21	58.58	74	-15.42	peak
11570	36.64	4.21	40.85	54	-13.15	AVG

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



MID CH157 (802.11 a Mode with 5.8G)/5785

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3647	61.14	-4.59	56.55	74	-17.45	peak
3647	48.32	-4.59	43.73	54	-10.27	AVG
11570	54.89	4.21	59.1	74	-14.9	peak
11570	40.39	4.21	44.6	54	-9.4	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3647	59.49	-4.59	54.9	74	-19.1	peak
3647	47.09	-4.59	42.5	54	-11.5	AVG
11570	51.91	4.21	56.12	74	-17.88	peak
11570	36.63	4.21	40.84	54	-13.16	AVG

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



HIGH CH 165 (802.11a Mode with 5.8G)/5825

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3647	61.62	-4.59	57.03	74	-16.97	peak
3647	49.72	-4.59	45.13	54	-8.87	AVG
11650	54.56	4.84	59.4	74	-14.6	peak
11650	39.38	4.84	44.22	54	-9.78	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
3647	57.27	-4.59	52.68	74	-21.32	peak
3647	47.19	-4.59	42.6	54	-11.4	AVG
11650	51.28	4.84	56.12	74	-17.88	peak
11650	37.59	4.84	42.43	54	-11.57	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:	<pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] subgraph TC [Temperature Chamber] EUT end P[AC/DC Power supply] --- EUT </pre>
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

**Test Result as follows:**

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	3.85V	5745.012	12	5824.971	-29
	4.43V	5744.985	-15	5824.996	-4
	3.27V	5744.973	-27	5824.989	-11

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	-30	5744.989	-11	5824.975	-25
	-20	5744.991	-9	5824.971	-29
	-10	5744.988	-12	5825.001	1
	0	5744.972	-28	5825.018	18
	10	5745.013	13	5824.994	-6
	20	5745.011	11	5824.983	-17
	30	5744.988	-12	5824.992	-8
	40	5744.975	-25	5825.006	6
	50	5744.974	-26	5824.972	-28



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.

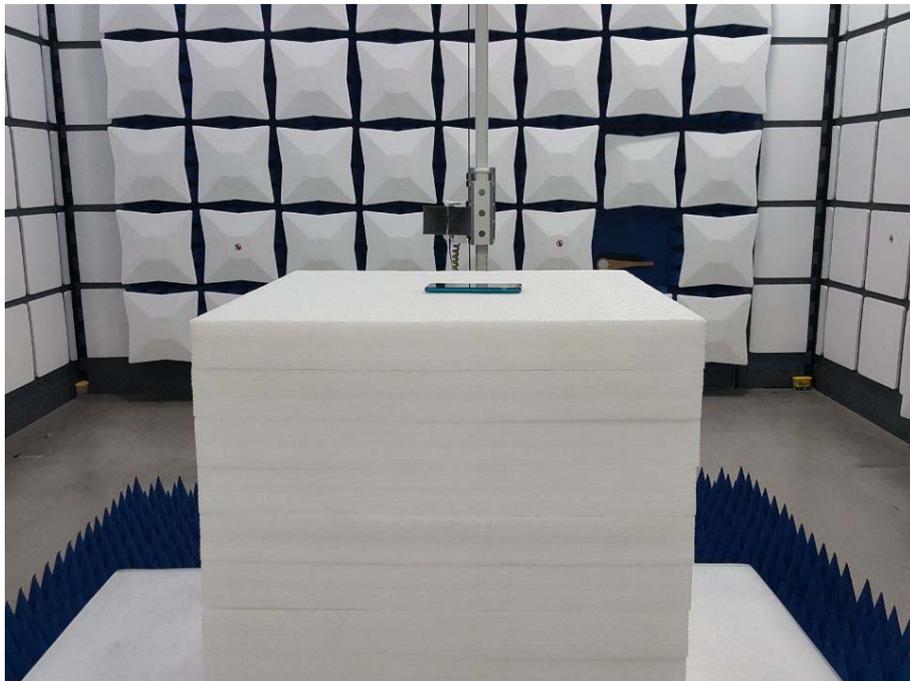
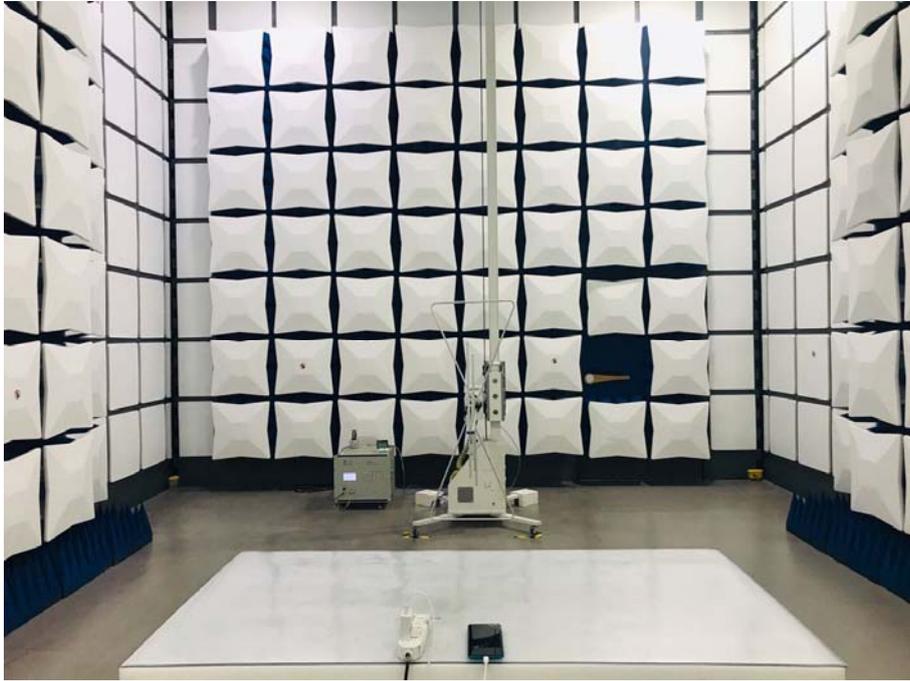
Antenna Connected Construction

The antenna used in this product is a Internal antenna which professional installation is required and cannot be dismantled easily. The directional gains of antenna used for transmitting is 1dBi.

WIFI ANTENNA



4.10. Photographs of Test Setup







4.11. PHOTOS OF THE EUT

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

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