



# FCC Test Report

**Test report  
On Behalf of  
Hangzhou Tanlink Technology Co.,Ltd.  
For  
Car driving recorder  
Model No.: F8, F2, F4, F6, F10, F20, F40, F60, F80, F100  
FCC ID: 2BBBN-F8**

**Prepared For :** Hangzhou Tanlink Technology Co.,Ltd.  
Room 701, South Building, Building 3, No.16 Longtan Road, Cangqian Street,  
Yuhang District, Hangzhou, Zhejiang, China

**Prepared By :** Shenzhen HUAKE Testing Technology Co., Ltd.  
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**Date of Test:** Dec. 22, 2023 ~ Jan. 09, 2024

**Date of Report:** Jan. 09, 2024

**Report Number:** HK2312226265-2E



### Test Result Certification

**Applicant's name** ..... : Hangzhou Tanlink Technology Co.,Ltd.  
**Address**..... : Room 701, South Building, Building 3, No.16 Longtan Road, Cangqian Street, Yuhang District, Hangzhou, Zhejiang, China  
**Manufacturer's Name**..... : Jarvis Smart (Shenzhen) Co., Ltd.  
**Address**..... : 4th Floor, Building C1, Fuyuan Industrial Park, Fengtang Avenue, Tangwei Community, Fuhai Street, Baoan District, Shenzhen, 518100, China

#### Product description

**Trade Mark:** RedTiger  
**Product name** ..... : Car driving recorder  
**Model and/or type reference** : F8, F2, F4, F6, F10, F20, F40, F60, F80, F100  
**Standards**..... : FCC Rules and Regulations Part 15 Subpart E Section 15.407  
 ANSI C63.10: 2013

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**Date of Test** ..... :  
**Date (s) of performance of tests**..... : **Dec. 22, 2023 ~ Jan. 09, 2024**  
**Date of Issue** ..... : **Jan. 09, 2024**  
**Test Result** ..... : **Pass**

Testing Engineer : Len Liao  
 (Len Liao)

Technical Manager : Sliver Wan  
 (Sliver Wan)

Authorized Signatory : Jason Zhou  
 (Jason Zhou)

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**\*\* Modified History \*\***

<b>Revision</b>	<b>Description</b>	<b>Issued Data</b>	<b>Remark</b>
Revision 1.0	Initial Test Report Release	Jan. 09, 2024	Jason Zhou

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# 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. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.  
 Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,  
 Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

### Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.  
 FCC Designation Number is CN1229.  
 Canada IC CAB identifier is CN0045.  
 CNAS Registration Number is L9589.



### 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	$\pm 0.37\text{dB}$
2	RF power, conducted	$\pm 3.35\text{dB}$
3	Spurious emissions, conducted	$\pm 2.20\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.90\text{dB}$
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:	Car driving recorder
Model Name:	F8
Serial Model:	F2, F4, F6, F10, F20, F40, F60, F80, F100
Model Difference:	All model's the function, software and electric circuit are the same, only with a product model named different. Test sample model: F8.
Trade Mark:	RedTiger
FCC ID:	2BBBN-F8
Operation Frequency:	IEEE 802.11a/n/ac (HT20)5.745GHz-5.825GHz IEEE 802.11n/ac (HT40)5.755GHz-5.795GHz
Modulation Technology:	IEEE 802.11a/n/ac
Modulation Type:	OFDM, OFDMA
Antenna Type:	Internal Antenna
Antenna Gain:	2.89dBi
Power Source:	DC 5V From Type-C or DC 12V From Car Charging
Power Supply:	DC 5V From Type-C or DC 12V From Car Charging



### 2.2. Operation Frequency Each of Channel

802.11a/802.11n(HT20)/ 802.11ac(HT20)		802.11n(HT40)/ 802.11ac(HT40)	
Channel	Frequency	Channel	Frequency
149	5745	151	5755
153	5765	159	5795
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/ac (HT20)		
Channel Number	Channel	Frequency (MHz)
149	Low	5745
157	Mid	5785
165	High	5825

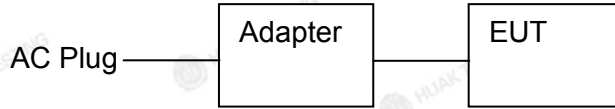
For 802.11n/ac (HT40)		
Channel Number	Channel	Frequency (MHz)
151	Low	5755
159	High	5795



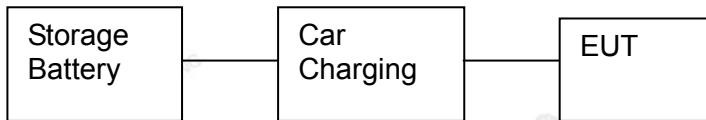


## 2.4. Description of Test Setup

Operation of EUT during conducted testing:



Operation of EUT during radiation testing:



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 X position.



### 2.5. 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Remark
1	Car driving recorder	RedTiger	F8	N/A	EUT
2	Car Charging	N/A	N/A	N/A	Accessory
3	Adapter	N/A	N/A	Input: 100-240V, 50/60Hz, 0.5A Output: 5VDC, 2A	Peripheral
4	USB Cable	N/A	N/A	Length:1.0m	Peripheral
5	Storage Battery	N/A	N/A	12V 9Ah	Peripheral
6	RF Cable	N/A	N/A	Length:0.1m	Peripheral

**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, 20dB and 99% 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.



### 3. Genera Information

#### 3.1. Test Environment and Mode

<b>Operating Environment:</b>	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
<b>Test Mode:</b>	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations
<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 &amp; 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>	





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/ac(HT20)	MCS0
802.11n/ac(HT40)	MCS0

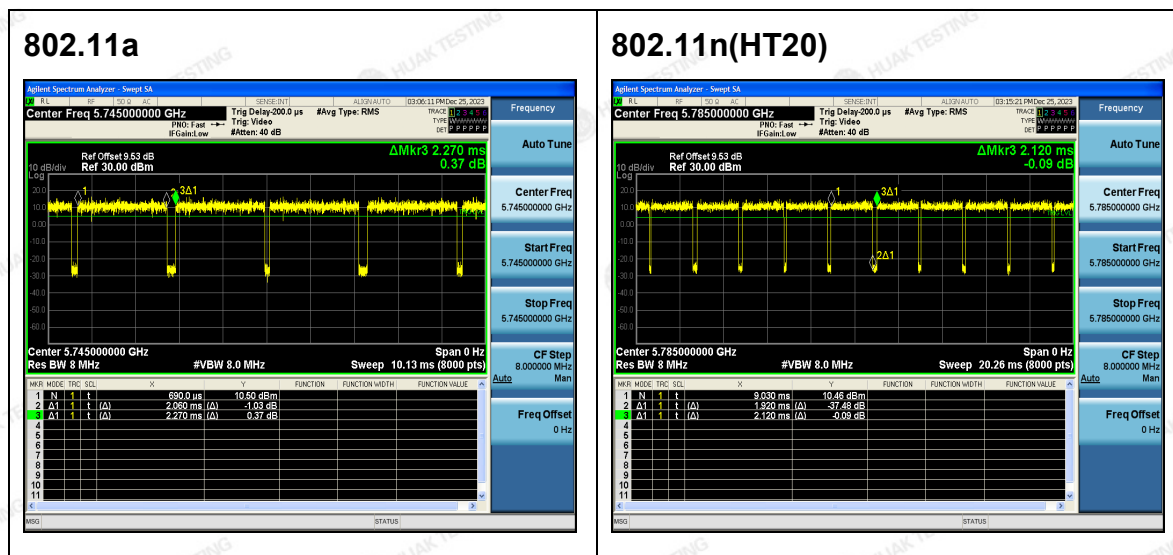
Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting with modulation
-----------------	---

Mode Test Duty Cycle:

Mode	Duty Cycle	Duty Cycle Factor (dB)
802.11a	0.91	-0.41
802.11n(HT20)	0.91	-0.41
802.11n(HT40)	0.82	-0.86
802.11ac(HT20)	0.82	-0.86
802.11ac(HT40)	0.73	-1.37

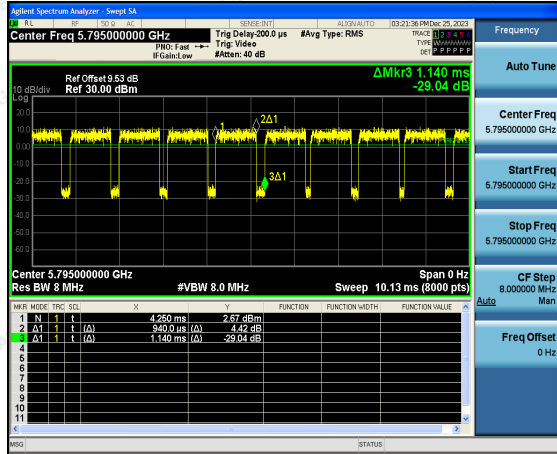
Test plots as follows:



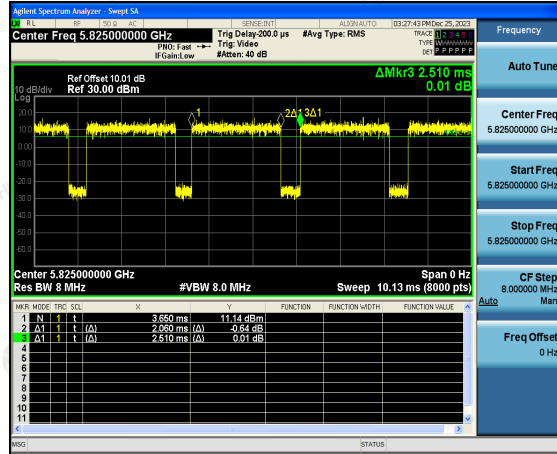
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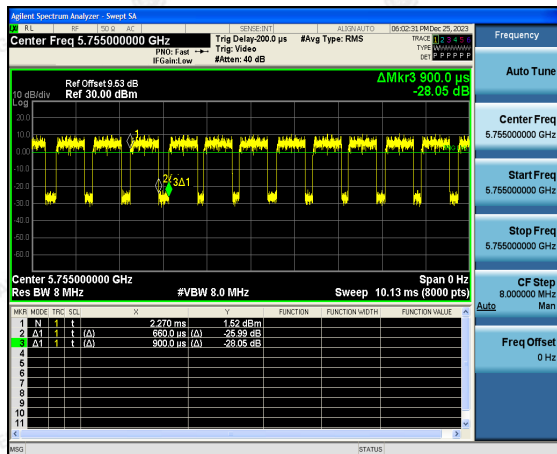
### 802.11n(HT40)



### 802.11ac(HT20)



### 802.11ac(HT40)



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### 4. Test Results and Measurement Data

#### 4.1. Conducted Emission

##### 4.1.1. Test Specification

<b>Test Requirement:</b>	FCC Part15 C Section 15.207														
<b>Test Method:</b>	ANSI C63.10:2013														
<b>Frequency Range:</b>	150 kHz to 30 MHz														
<b>Receiver setup:</b>	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
<b>Limits:</b>	<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													
<b>Test Setup:</b>	<p style="font-size: small;">Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
<b>Test Mode:</b>	Tx Mode														
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>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).</li> <li>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.</li> </ol>														
<b>Test Result:</b>	PASS														

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4.1.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR-7	HKE-010	Feb. 17, 2023	Feb. 16, 2024
LISN	R&S	ENV216	HKE-002	Feb. 17, 2023	Feb. 16, 2024
Coax cable (9KHz-30MHz)	Times	381806-00 2	N/A	Feb. 17, 2023	Feb. 16, 2024
10dB Attenuator	Schwarzbeck	VTSD9561 F	HKE-153	Feb. 17, 2023	Feb. 16, 2024
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A

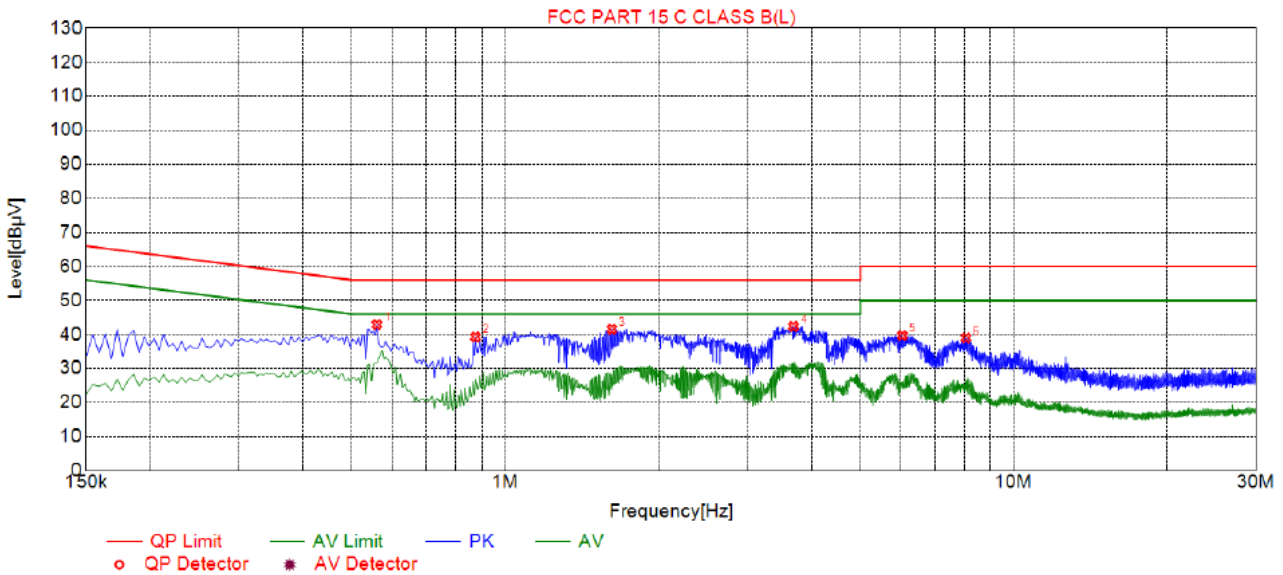
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



### 4.1.3. Test data

Remark: All the test modes completed for test. only the worst result of 802. 11a was reported as below:

Test Specification: Line



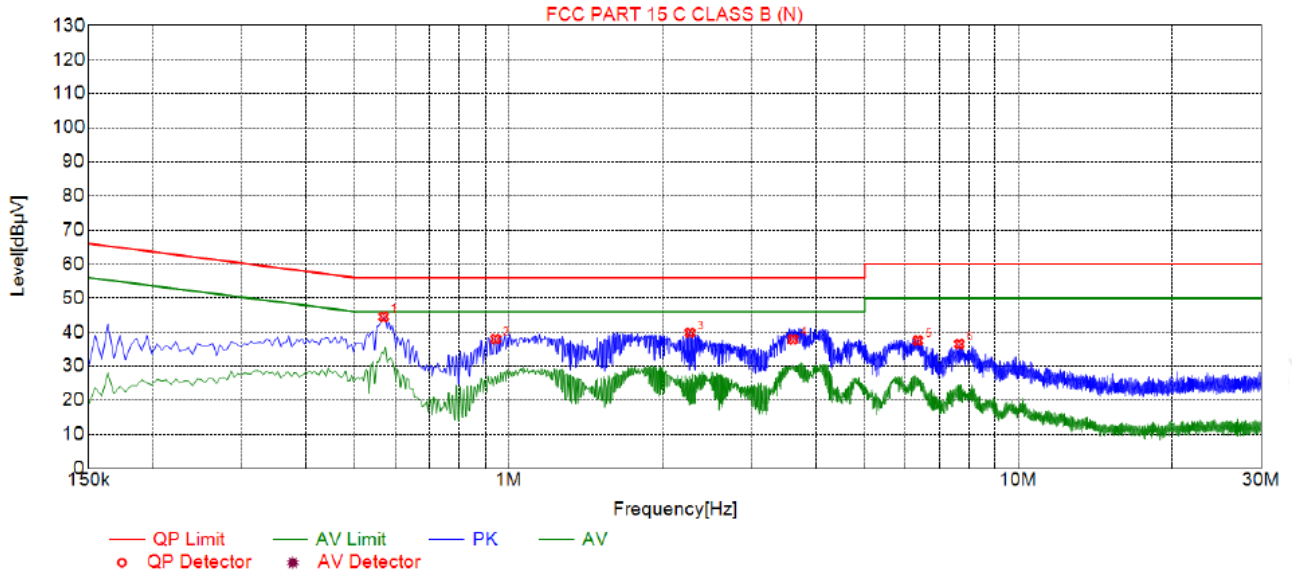
Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.5595	42.93	20.06	56.00	13.07	22.87	PK	L
2	0.8745	39.27	20.06	56.00	16.73	19.21	PK	L
3	1.6215	41.54	20.11	56.00	14.46	21.43	PK	L
4	3.6915	42.35	20.25	56.00	13.65	22.10	PK	L
5	6.0405	39.67	20.23	60.00	20.33	19.44	PK	L
6	8.0655	38.97	20.14	60.00	21.03	18.83	PK	L

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





Test Specification: Neutral



Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Type
1	0.5685	44.51	20.05	56.00	11.49	24.46	PK	N
2	0.9420	37.98	20.06	56.00	18.02	18.48	PK	N
3	2.2695	39.84	20.18	56.00	16.16	19.66	PK	N
4	3.6150	37.91	20.25	56.00	18.09	19.97	PK	N
5	6.3555	37.51	20.22	60.00	22.49	17.29	PK	N
6	7.6650	36.52	20.17	60.00	23.48	16.35	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

<b>Test Requirement:</b>	FCC Part15 E Section 15.407(a)				
<b>Test Method:</b>	KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E				
<b>Limit:</b>	<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				
<b>Test Setup:</b>	<p>The diagram illustrates the test setup. On the left is a green box labeled 'Power meter'. A cable connects it to a small white box labeled 'Attenuator'. Another cable connects the attenuator to a yellow box labeled 'EUT' (Equipment Under Test).</p>				
<b>Test Mode:</b>	Transmitting mode with modulation				
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a.</li> <li>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.</li> <li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>4. Measure the conducted output power and record the results in the test report.</li> </ol>				
<b>Test Result:</b>	PASS				
<b>Remark:</b>	<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>				



4.2.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
Power meter	Agilent	E4419B	HKE-085	Feb. 17, 2023	Feb. 16, 2024
Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	Feb. 16, 2024
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024

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



Test Data

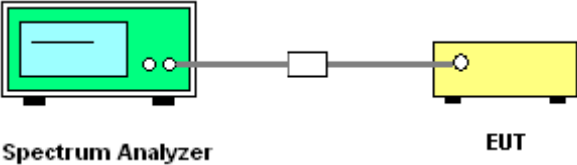
Configuration Band IV (5725 - 5850 MHz )				
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
11a	CH149	10.97	30	PASS
11a	CH157	7.34	30	PASS
11a	CH165	7.81	30	PASS
11n HT20	CH149	9.67	30	PASS
11n HT20	CH157	6.88	30	PASS
11n HT20	CH165	7.56	30	PASS
11n HT40	CH151	7.71	30	PASS
11n HT40	CH159	7.03	30	PASS
11ac HT20	CH149	8.18	30	PASS
11ac HT20	CH157	9.41	30	PASS
11ac HT20	CH165	7.92	30	PASS
11ac HT40	CH151	8.08	30	PASS
11ac HT40	CH159	7.69	30	PASS

Note: 1.The test results including the cable lose.



### 4.3. 6DB Emission Bandwidth

#### 4.3.1. Test Specification

<b>Test Requirement:</b>	FCC CFR47 Part 15 Section 15.407(e)
<b>Test Method:</b>	KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section C
<b>Limit:</b>	>500kHz
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. 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.</li> <li>4. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	PASS

#### 4.3.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024

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



4.3.3. Test data

Band IV (5725 - 5850 MHz )					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
11a	CH149	5745	15.04	0.5	PASS
11a	CH157	5785	15.04	0.5	PASS
11a	CH161	5825	15.04	0.5	PASS
11n(HT20)	CH149	5745	15.08	0.5	PASS
11n(HT20)	CH157	5785	15.04	0.5	PASS
11n(HT20)	CH161	5825	15.08	0.5	PASS
11n(HT40)	CH151	5755	31.36	0.5	PASS
11n(HT40)	CH159	5795	31.36	0.5	PASS
11ac(HT20)	CH149	5745	15.00	0.5	PASS
11ac(HT20)	CH157	5785	15.08	0.5	PASS
11ac(HT20)	CH165	5825	15.00	0.5	PASS
11ac(HT40)	CH151	5755	31.28	0.5	PASS
11ac(HT40)	CH159	5795	33.68	0.5	PASS

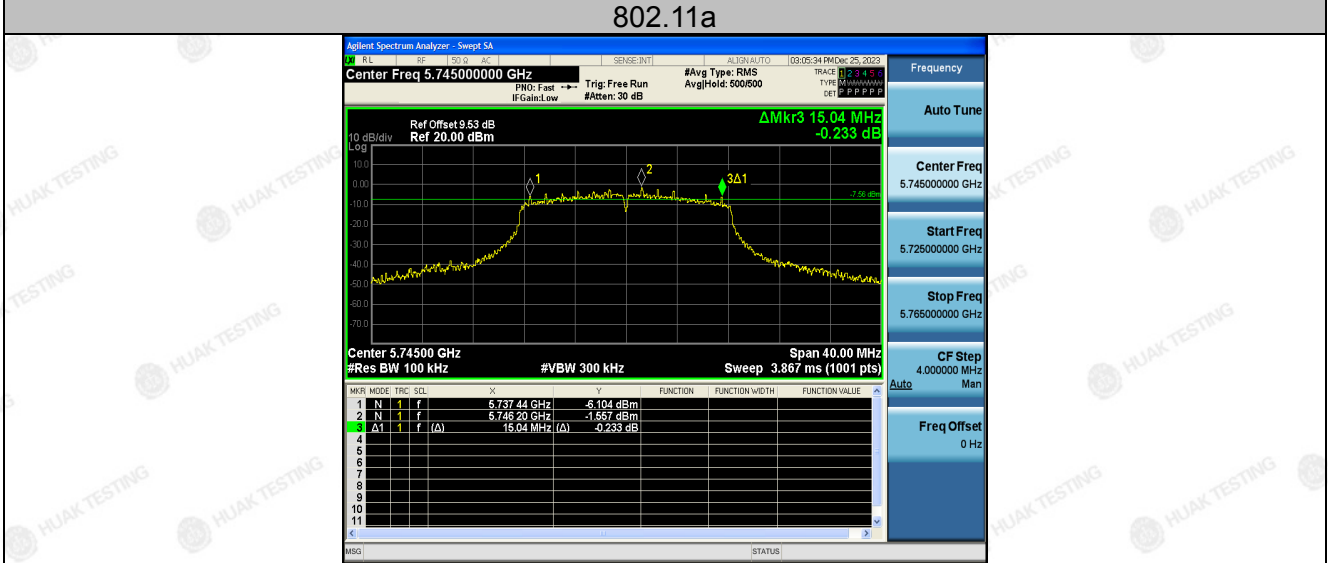
Note: RBW setting for 99% bandwidth is 1%-5% OBW

Test plots as follows:

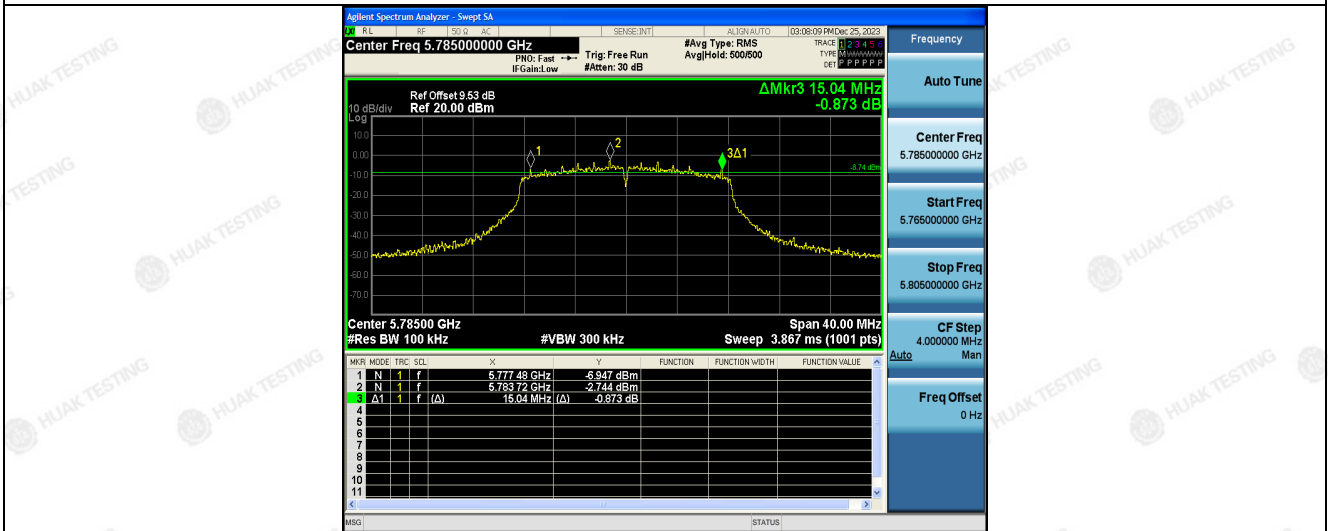


Band IV (5725 – 5850 MHz)

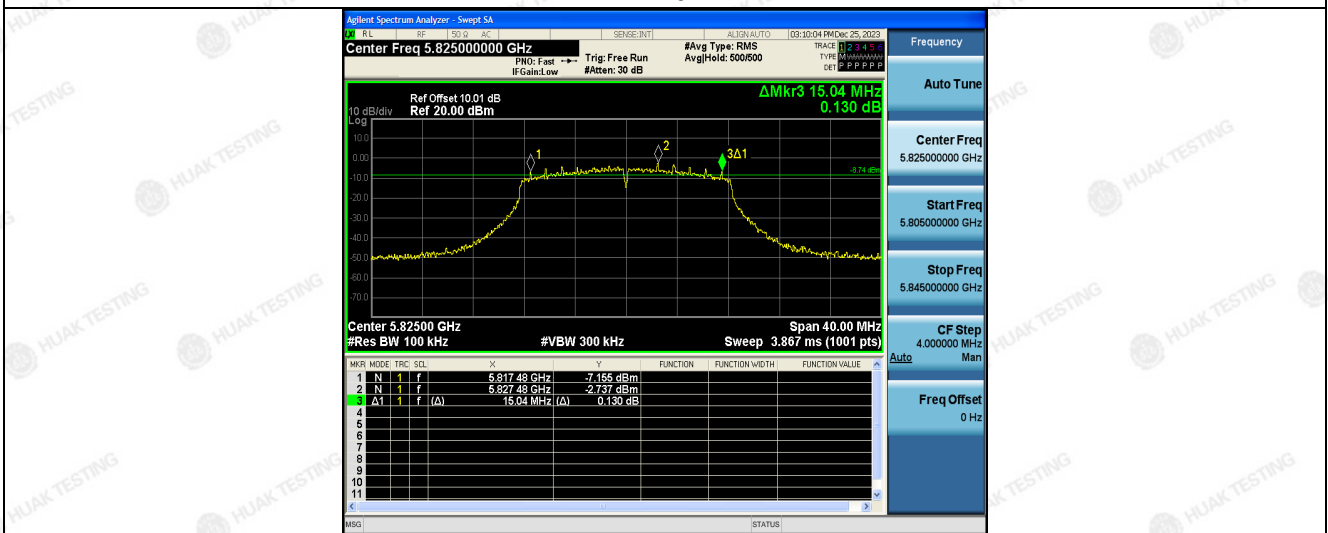
802.11a



Low



Mid

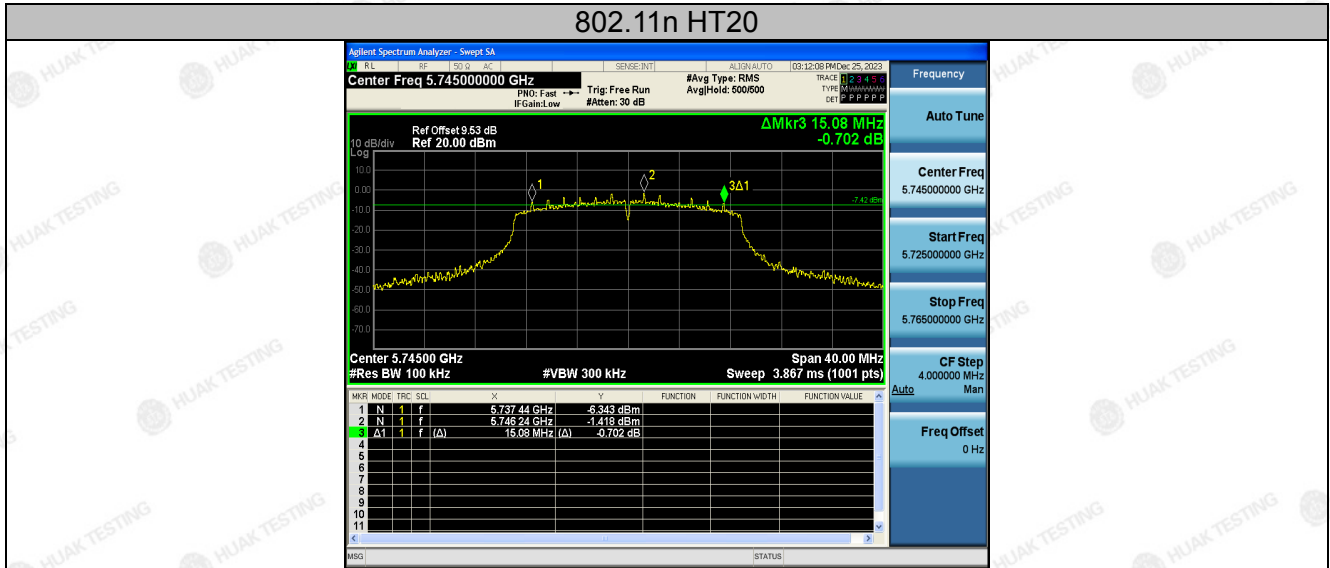


High

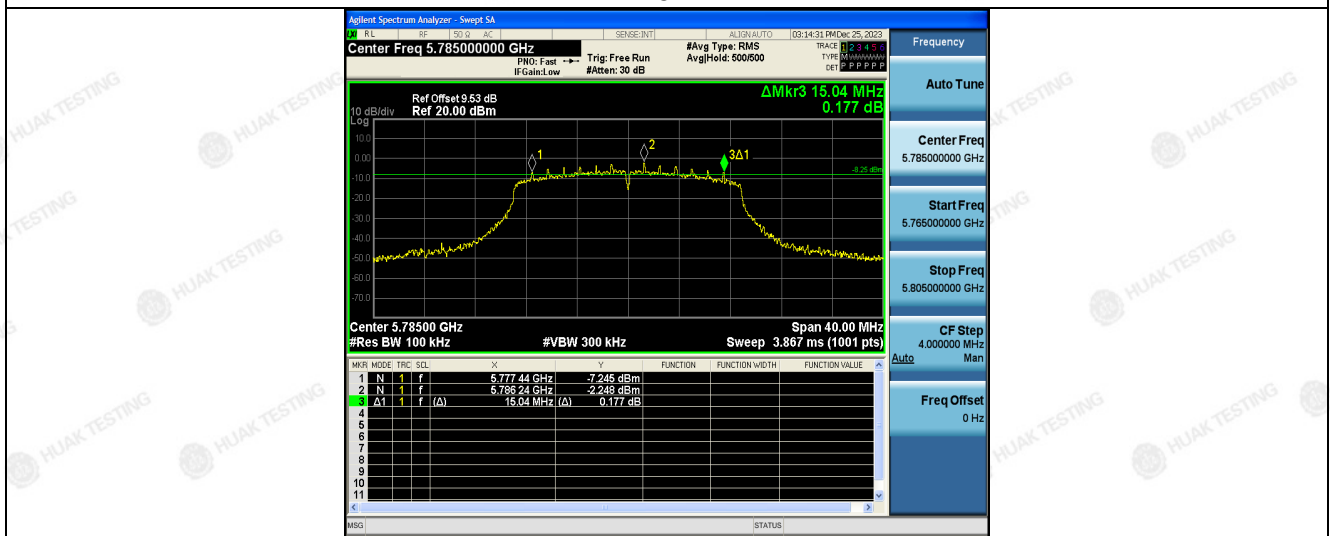
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Low



Mid



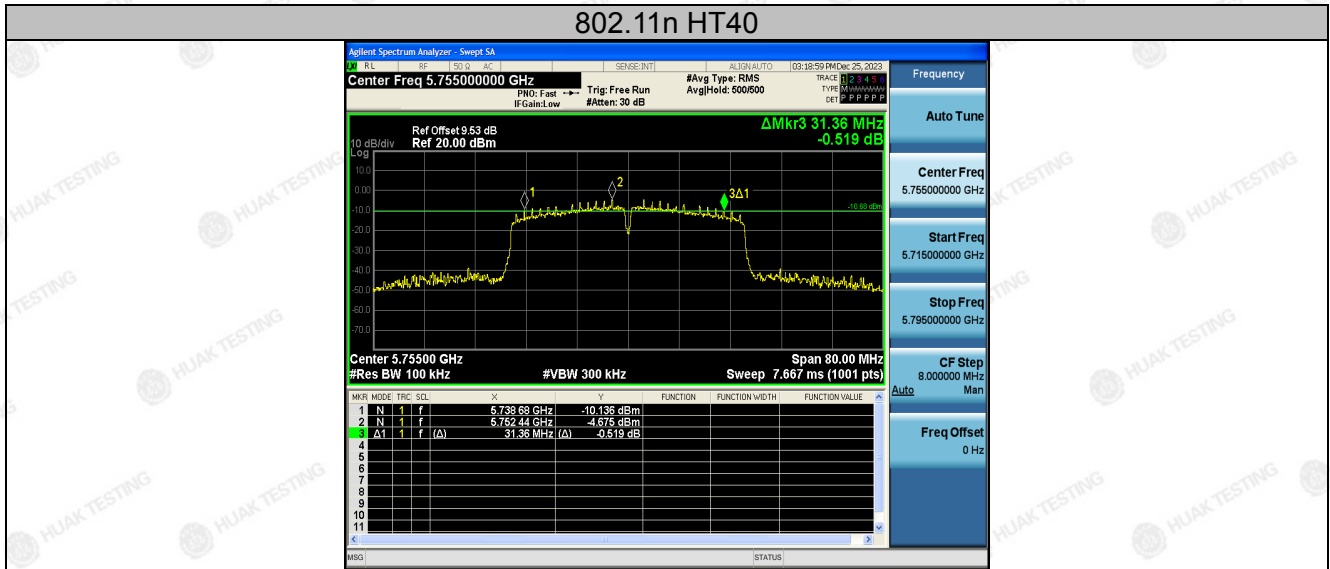
High

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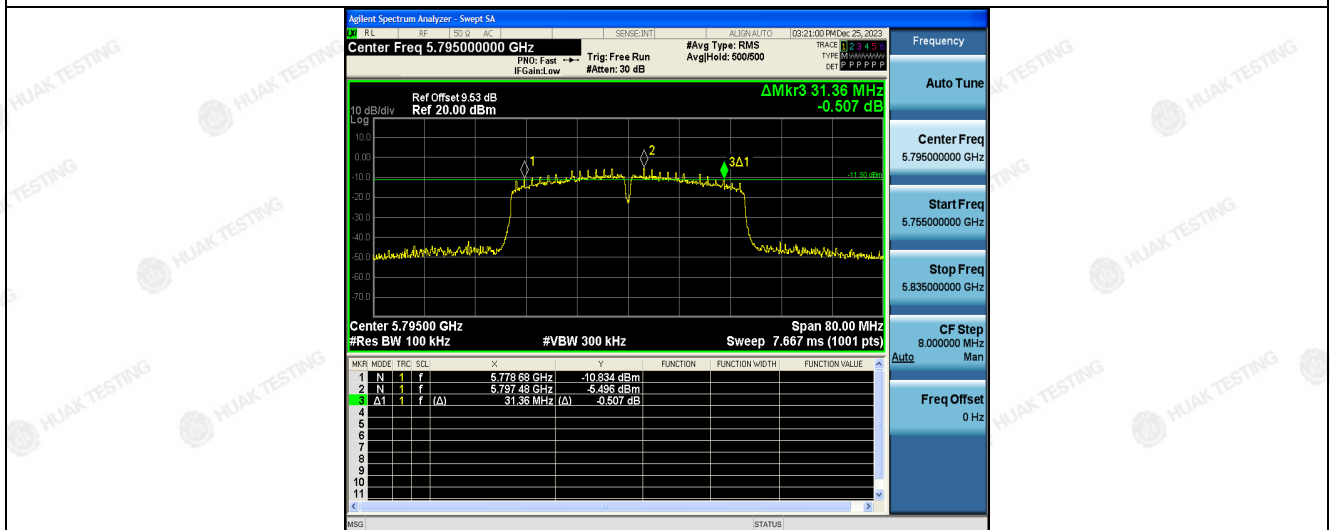
TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

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Low



High

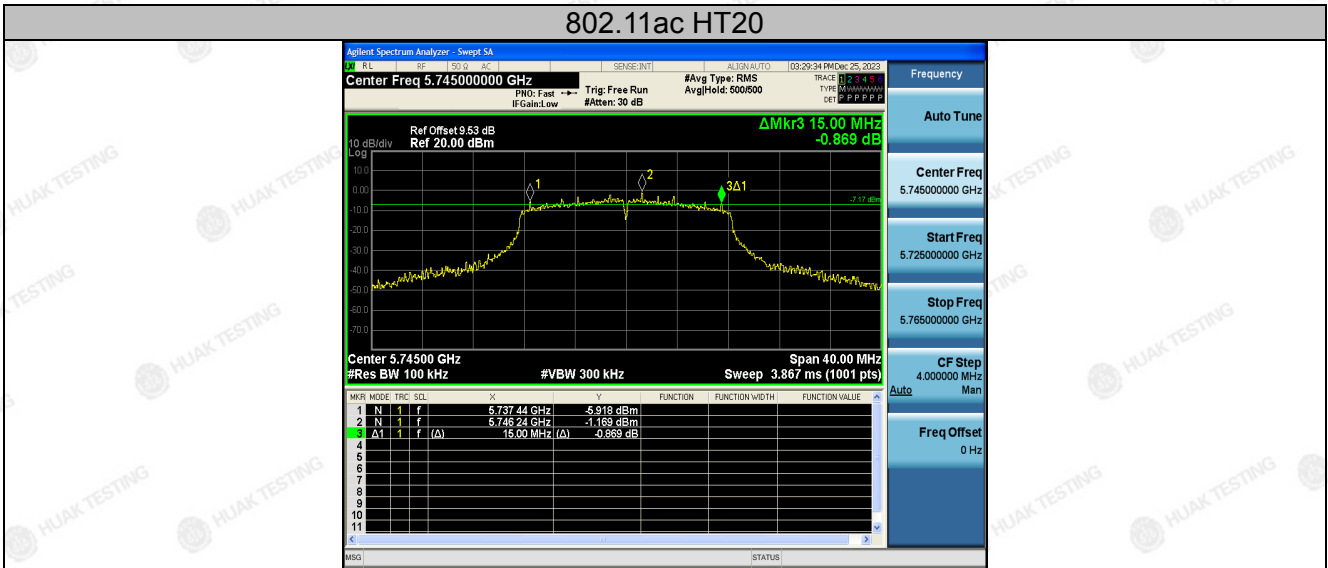
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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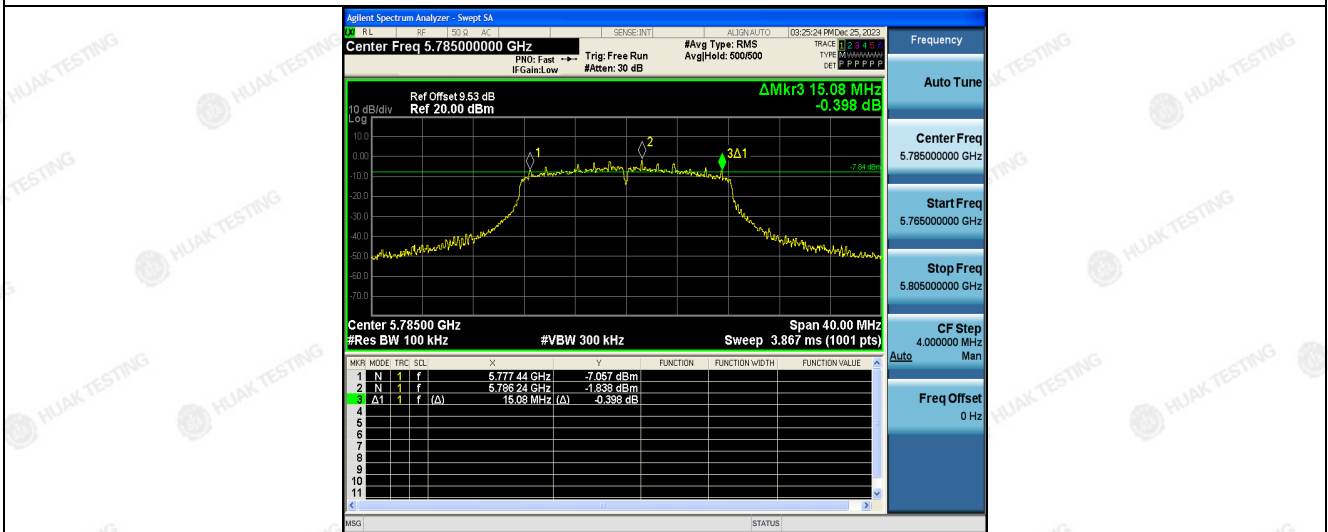
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



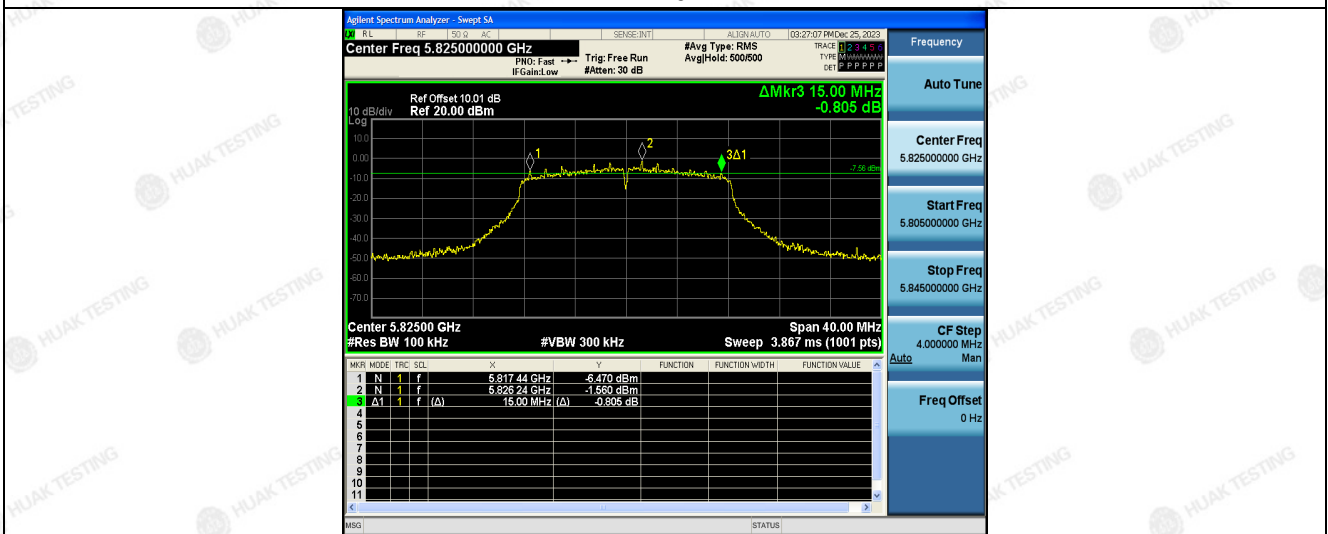
802.11ac HT20



Low



Mid

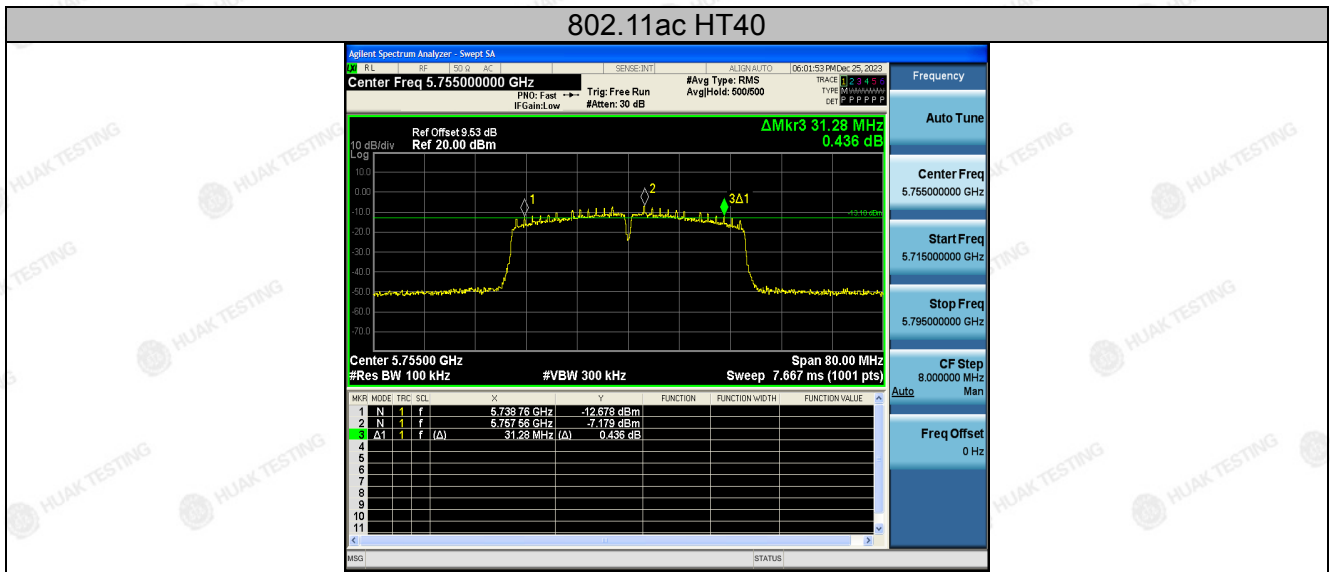


High

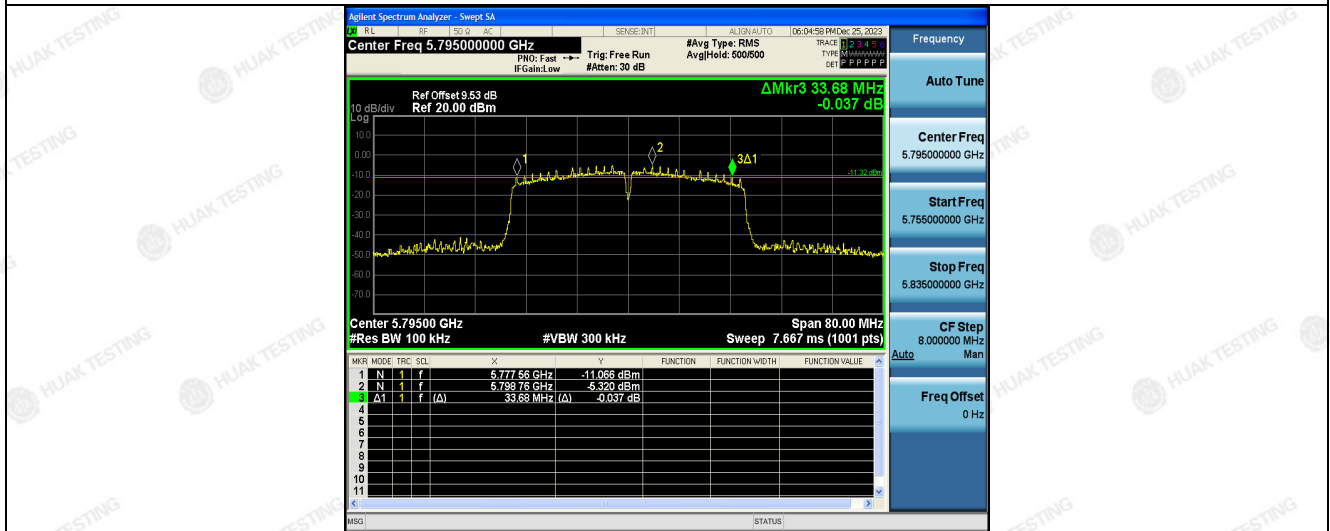
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAJ, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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Low



High


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### 4.4. 26DB Bandwidth and 99% Occupied Bandwidth

#### 4.4.1. Test Specification

<b>Test Requirement:</b>	47 CFR Part 15C Section 15.407 (a)
<b>Test Method:</b>	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
<b>Limit:</b>	No restriction limits
<b>Test Setup:</b>	 <p style="text-align: center;">Spectrum Analyzer                      EUT</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C.</li> <li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>3. Make the measurement with the spectrum analyzer's resolution bandwidth <math>RBW = 1\% EBW</math>, <math>VBW \geq 3RBW</math>, In order to make an accurate measurement.</li> <li>4. Measure and record the results in the test report.</li> </ol>
<b>Test Result:</b>	N/A

#### 4.4.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024

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

#### 4.4.3. Test Result

N/A





4.5.3. Test data

Configuration Band IV (5725 - 5850 MHz )						
Mode	Test channel	Level [dBm/510kHz]	10log(500/510)	Power Spectral Density	Limit (dBm/500kHz)	Result
11a	CH149	2.52	-0.086	2.434	30	PASS
11a	CH157	1.90	-0.086	1.814	30	PASS
11a	CH165	2.18	-0.086	2.094	30	PASS
11n HT20	CH149	1.85	-0.086	1.764	30	PASS
11n HT20	CH157	1.34	-0.086	1.254	30	PASS
11n HT20	CH165	1.64	-0.086	1.554	30	PASS
11n HT40	CH151	-0.74	-0.086	-0.826	30	PASS
11n HT40	CH159	-1.50	-0.086	-1.586	30	PASS
11ac HT20	CH149	2.25	-0.086	2.164	30	PASS
11ac HT20	CH157	1.37	-0.086	1.284	30	PASS
11ac HT20	CH165	2.45	-0.086	2.364	30	PASS
11ac HT40	CH151	-0.61	-0.086	-0.696	30	PASS
11ac HT40	CH159	-1.19	-0.086	-1.276	30	PASS

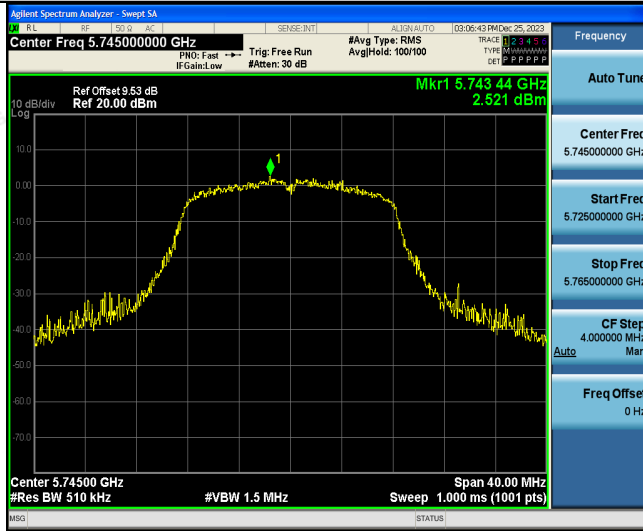
Note: 1. Power Spectral Density= Level [dBm/510kHz]+ ( 10log(Limit RBW/Test RBW) )  
2. Instrument attenuation and cable loss See test diagram

Test plots as follows:

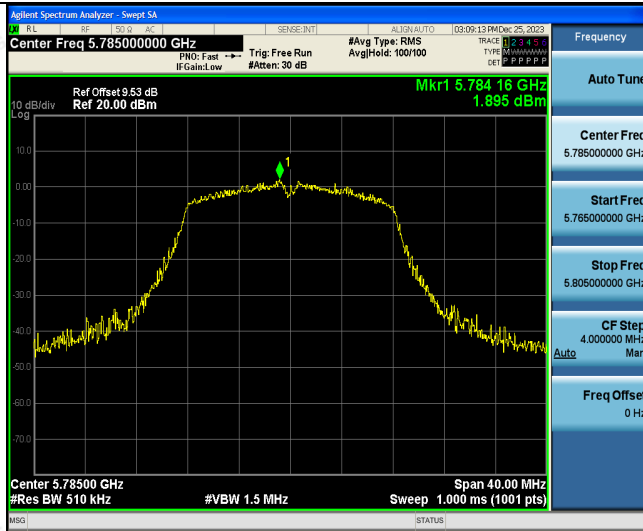


Band IV (5725-5850 MHz)

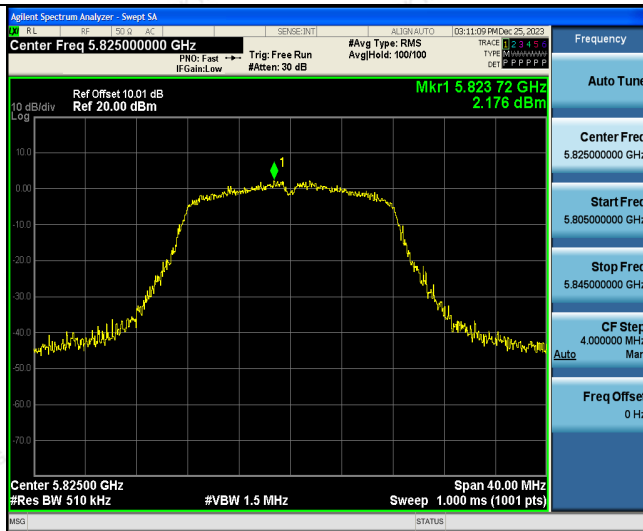
802.11a



Low



Mid

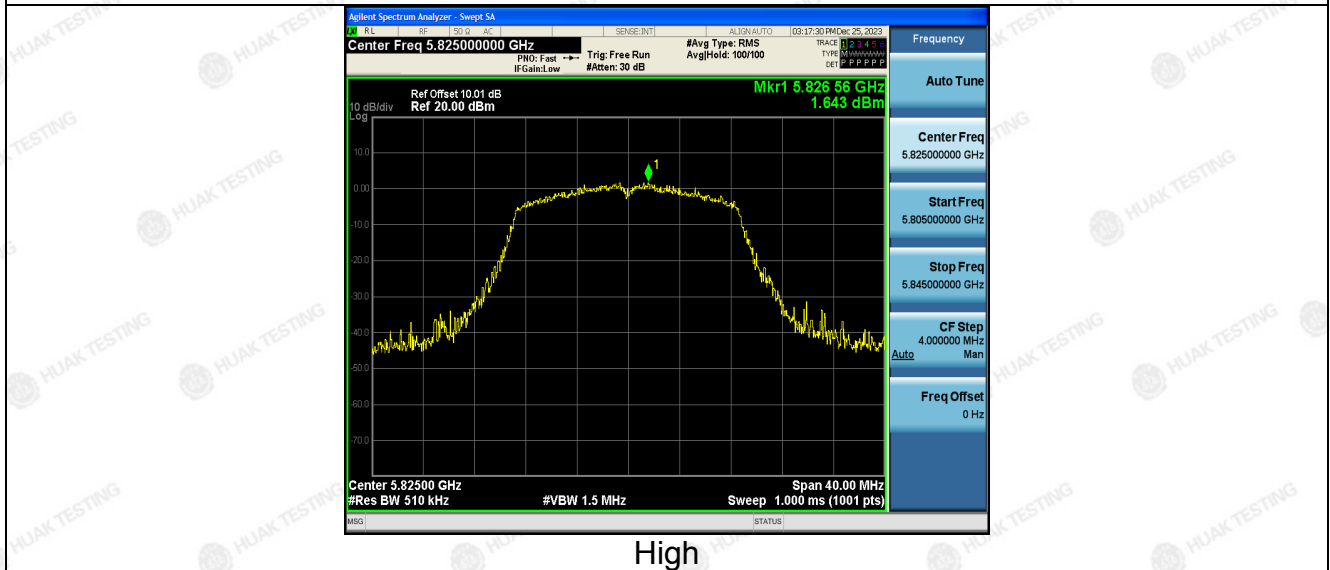
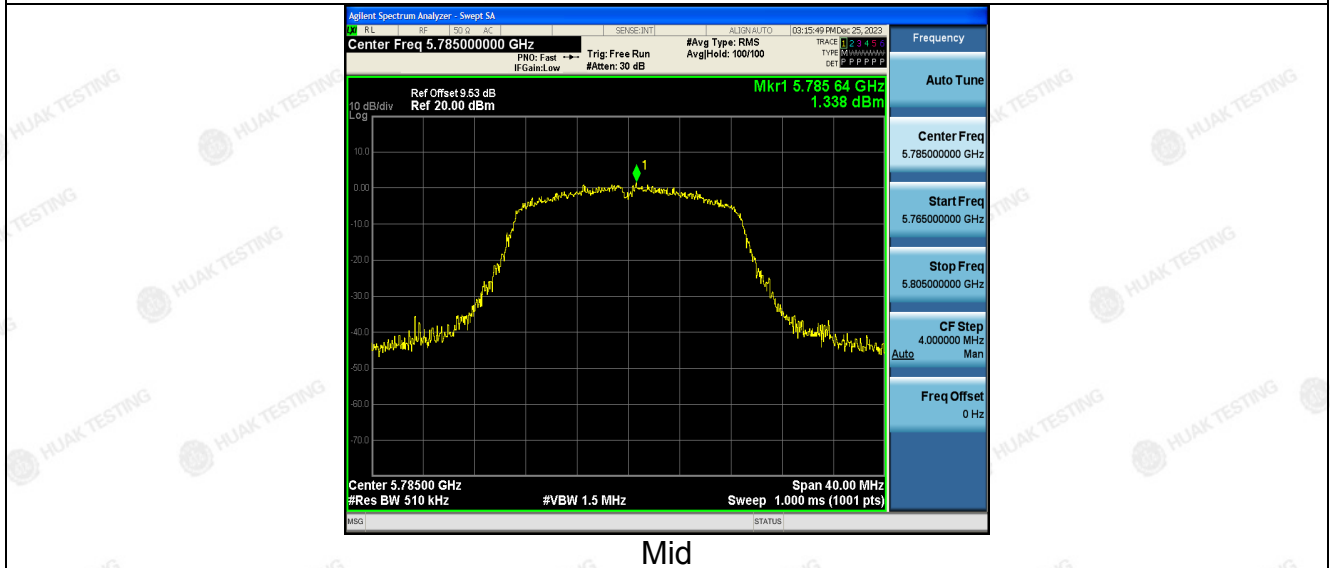
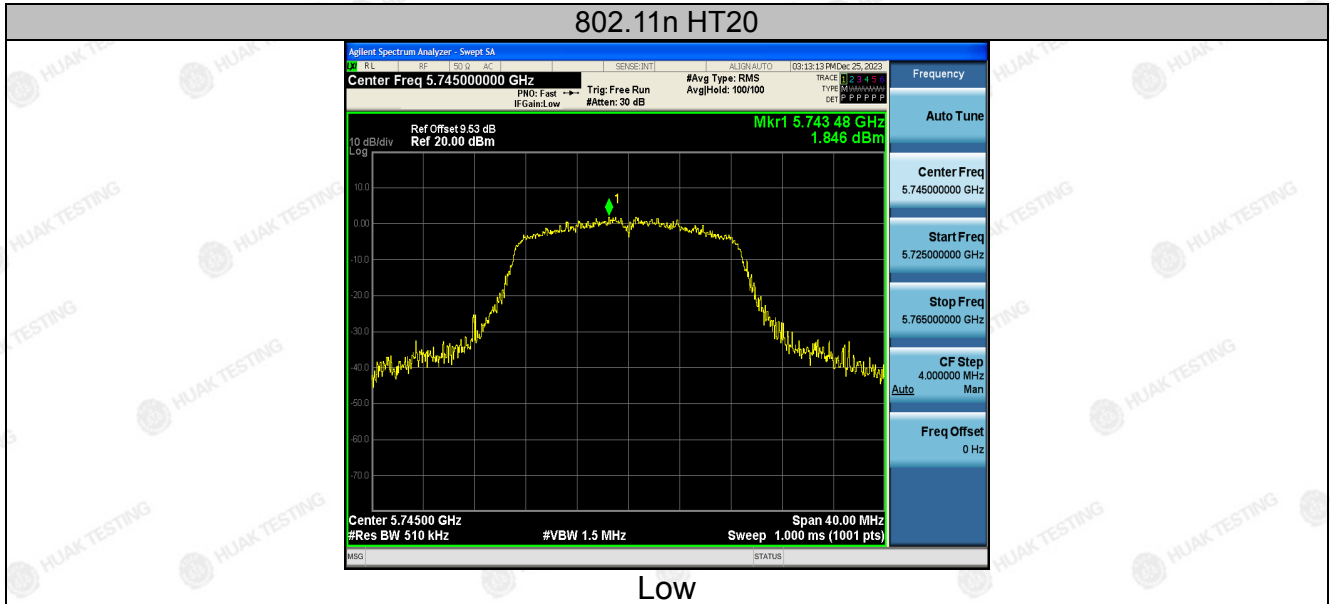


High

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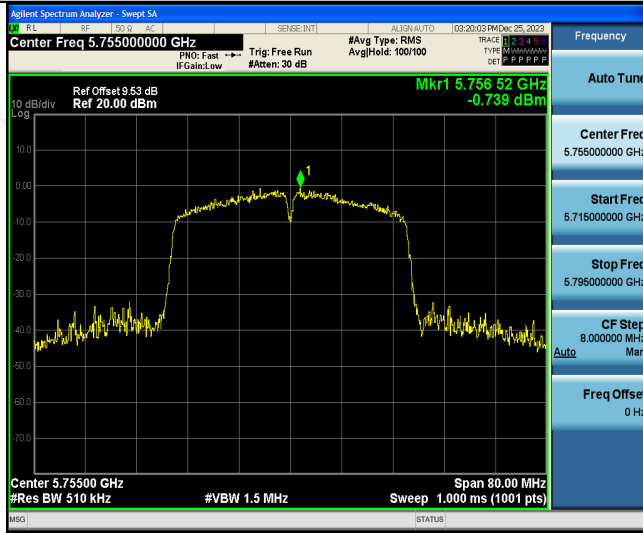
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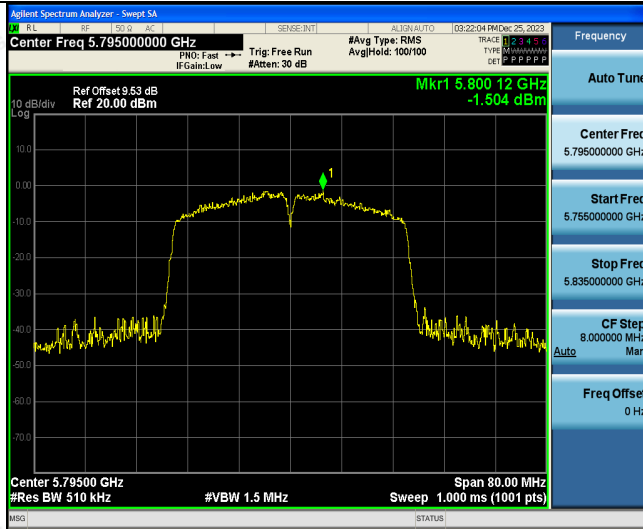




802.11n HT40



Low



High

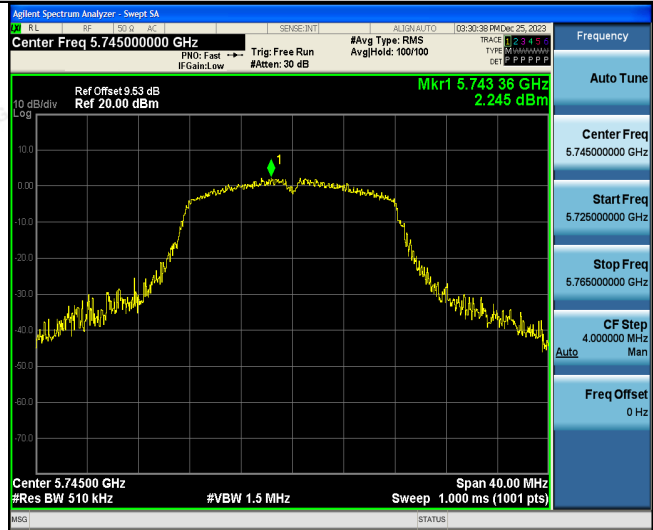
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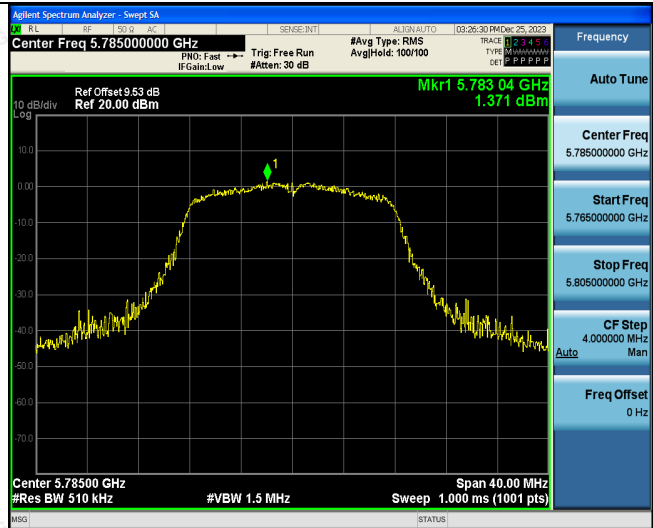
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802.11ac HT20



Low



Mid



High

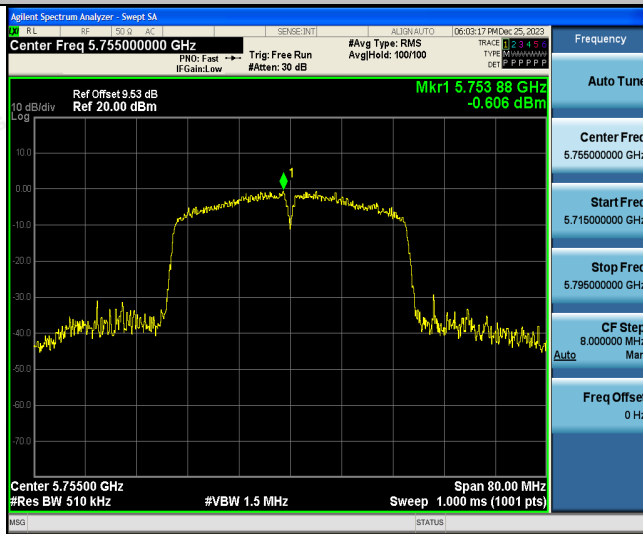
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802.11ac HT40



Low



High

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**4.6. Band Edge**

**4.6.1. Test Specification**

<b>Test Requirement:</b>	FCC CFR47 Part 15E Section 15.407
<b>Test Method:</b>	ANSI C63.10 2013
<b>Limit:</b>	<p>(1)For transmitters operating in the 5.725-5.85 GHz band:          (i) All emissions shall be limited to a level of <math>-27</math> 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.          The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.</p>
<b>Test Setup:</b>	<p>The diagram illustrates the test setup within an anechoic chamber. An EUT (Equipment Under Test) is placed on a turn table at a height of 1.5 m. The turn table is positioned 3 m away from an antenna tower. The antenna tower has an antenna feed point at a height of 1-4 m. Below the antenna tower, a Receiver and an Amp. are connected to the ground plane.</p>
<b>Test Mode:</b>	Transmitting mode with modulation
<b>Test Procedure:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> </ol>

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	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.
<b>Test Result:</b>	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	Feb. 17, 2023	Feb. 16, 2024
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 17, 2023	Feb. 16, 2024
Preamplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	Feb. 16, 2024
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	Feb. 16, 2024
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 17, 2023	Feb. 16, 2024
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	Feb. 16, 2024
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 17, 2023	Feb. 16, 2024
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	Feb. 17, 2023	Feb. 16, 2024
RF cable	Tonscend	1-18G	HKE-099	Feb. 17, 2023	Feb. 16, 2024
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024
Horn Antenna	Schwarzbeck	BBHA 9170	HKE-017	Feb. 17, 2023	Feb. 16, 2024
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	Feb. 16, 2024

**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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	43.85	-2.06	41.79	68.2	-26.41	
5700	85.83	-1.96	83.87	105.2	-21.33	peak
5720	88.45	-2.87	85.58	110.8	-25.22	peak
5725	98.71	-2.14	96.57	122.2	-25.63	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	44.95	-2.06	42.89	68.2	-25.31	
5700	84.31	-1.96	82.35	105.2	-22.85	peak
5720	90.24	-2.87	87.37	110.8	-23.43	peak
5725	94.83	-2.14	92.69	122.2	-29.51	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5850	96.44	-1.97	94.47	122.2	-27.73	peak
5855	89.03	-2.13	86.9	110.8	-23.9	peak
5875	84.01	-2.65	81.36	105.2	-23.84	peak
5925	48.21	-2.28	45.93	68.2	-22.27	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5850	101.02	-1.97	99.05	122.2	-23.15	peak
5855	86.88	-2.13	84.75	110.8	-26.05	peak
5875	84.04	-2.65	81.39	105.2	-23.81	peak
5925	52.09	-2.28	49.81	68.2	-18.39	peak

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





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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5650	48.12	-2.06	46.06	68.2	-22.14	peak
5700	85.52	-1.96	83.56	105.2	-21.64	peak
5720	91.27	-2.87	88.4	110.8	-22.4	peak
5725	95.85	-2.14	93.71	122.2	-28.49	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
5650	43.66	-2.06	41.6	68.2	-26.6	peak
5700	86.79	-1.96	84.83	105.2	-20.37	peak
5720	91.16	-2.87	88.29	110.8	-22.51	peak
5725	97.44	-2.14	95.3	122.2	-26.9	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
5850	95.83	-1.97	93.86	122.2	-28.34	peak
5855	88.27	-2.13	86.14	110.8	-24.66	peak
5875	84.91	-2.65	82.26	105.2	-22.94	peak
5925	48.91	-2.28	46.63	68.2	-21.57	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
5850	97.68	-1.97	95.71	122.2	-26.49	peak
5855	88.89	-2.13	86.76	110.8	-24.04	peak
5875	84.36	-2.65	81.71	105.2	-23.49	peak
5925	47.76	-2.28	45.48	68.2	-22.72	peak

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



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

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	45.44	-2.06	43.38	68.2	-24.82	peak
5700	83.74	-1.96	81.78	105.2	-23.42	peak
5720	87.59	-2.87	84.72	110.8	-26.08	peak
5725	99.34	-2.14	97.2	122.2	-25	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5650	43.65	-2.06	41.59	68.2	-26.61	peak
5700	84.12	-1.96	82.16	105.2	-23.04	peak
5720	91.07	-2.87	88.2	110.8	-22.6	peak
5725	97.73	-2.14	95.59	122.2	-26.61	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	96.91	-1.97	94.94	122.2	-27.26	peak
5855	87.48	-2.13	85.35	110.8	-25.45	peak
5875	82.71	-2.65	80.06	105.2	-25.14	peak
5925	48.37	-2.28	46.09	68.2	-22.11	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	96.98	-1.97	95.01	122.2	-27.19	peak
5855	87.37	-2.13	85.24	110.8	-25.56	peak
5875	83.36	-2.65	80.71	105.2	-24.49	peak
5925	51.59	-2.28	49.31	68.2	-18.89	peak

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



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

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	45.57	-2.06	43.51	68.2	-24.69	peak
5700	85.34	-1.96	83.38	105.2	-21.82	peak
5720	89.25	-2.87	86.38	110.8	-24.42	peak
5725	98.81	-2.14	96.67	122.2	-25.53	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	44.28	-2.06	42.22	68.2	-25.98	peak
5700	83.31	-1.96	81.35	105.2	-23.85	peak
5720	90.72	-2.87	87.85	110.8	-22.95	peak
5725	95.58	-2.14	93.44	122.2	-28.76	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	97.55	-1.97	95.58	122.2	-26.62	peak
5855	88.08	-2.13	85.95	110.8	-24.85	peak
5875	83.51	-2.65	80.86	105.2	-24.34	peak
5925	47.98	-2.28	45.7	68.2	-22.5	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
5850	97.75	-1.97	95.78	122.2	-26.42	peak
5855	89.77	-2.13	87.64	110.8	-23.16	peak
5875	85.09	-2.65	82.44	105.2	-22.76	peak
5925	49.49	-2.28	47.21	68.2	-20.99	peak

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



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

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	43.44	-2.06	41.38	68.2	-26.82	peak
5700	83.71	-1.96	81.75	105.2	-23.45	peak
5720	87.93	-2.87	85.06	110.8	-25.74	peak
5725	99.17	-2.14	97.03	122.2	-25.17	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5650	42.33	-2.06	40.27	68.2	-27.93	peak
5700	83.69	-1.96	81.73	105.2	-23.47	peak
5720	90.52	-2.87	87.65	110.8	-23.15	peak
5725	98.31	-2.14	96.17	122.2	-26.03	peak

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



Operation Mode: TX CH High with 5.8G

Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5850	95.84	-1.97	93.87	122.2	-28.33	peak
5855	86.74	-2.13	84.61	110.8	-26.19	peak
5875	83.61	-2.65	80.96	105.2	-24.24	peak
5925	47.13	-2.28	44.85	68.2	-23.35	peak

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
5850	98.47	-1.97	96.5	122.2	-25.7	peak
5855	88.46	-2.13	86.33	110.8	-24.47	peak
5875	83.11	-2.65	80.46	105.2	-24.74	peak
5925	48.61	-2.28	46.33	68.2	-21.87	peak

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

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



## 4.7. Spurious Emission

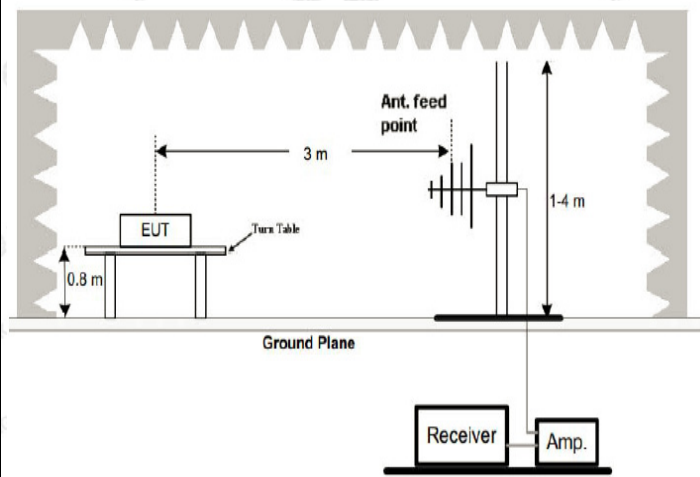
### 4.7.1.1. Test Specification

<b>Test Requirement:</b>	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
<b>Test Method:</b>	KDB 789033 D02 v02r01				
<b>Frequency Range:</b>	9kHz to 40GHz				
<b>Measurement Distance:</b>	3 m				
<b>Antenna Polarization:</b>	Horizontal & Vertical				
<b>Operation mode:</b>	Transmitting mode with modulation				
<b>Receiver Setup:</b>	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
<b>Limit:</b>	<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 <math>-27</math> 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 <math>-27</math> 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 <math>-27</math> 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 <math>-27</math> 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 comply 15.209.</p>				
<b>Test setup:</b>	<p>For radiated emissions below 30MHz</p> <p>30MHz to 1GHz</p>				

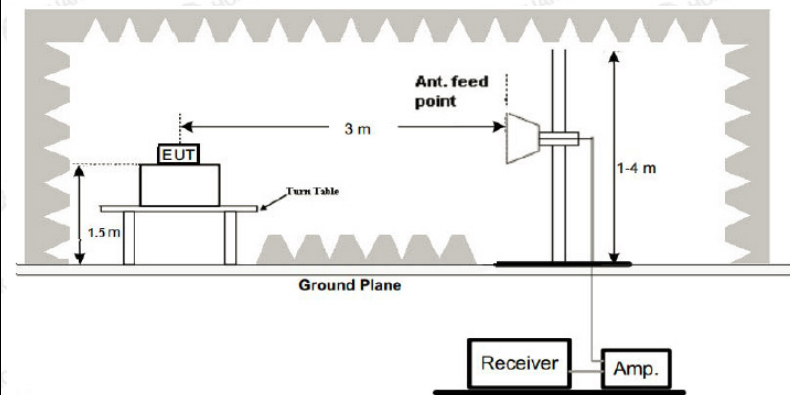
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



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 rotatable 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, quasi-peak or average method as specified and then reported in a data sheet.
<b>Test results:</b>	PASS



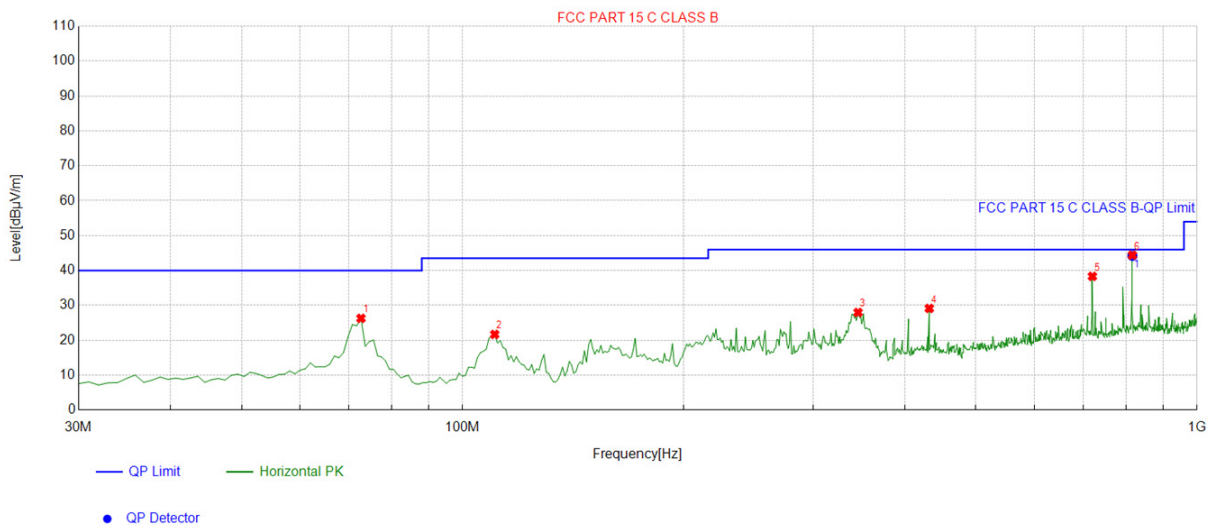
### 4.7.2. Test Data

test mode: TX 802.11a 5745MHz

Remark: All the test modes completed for test. only the worst result of 802.11a was reported as below:

#### Below 1GHz

##### Horizontal



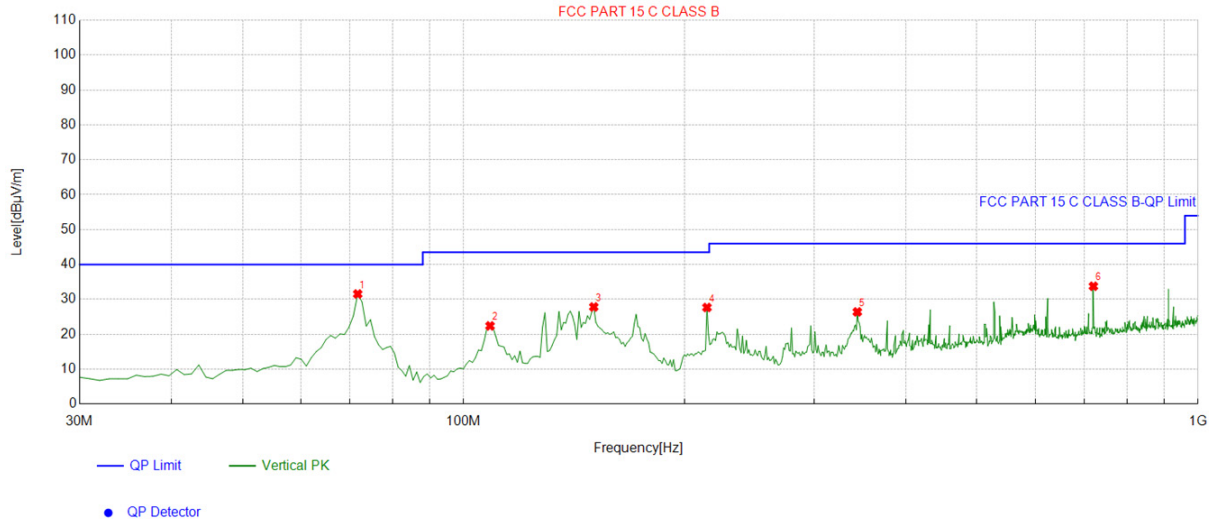
Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	72.722723	-16.35	42.63	26.28	40.00	13.72	100	23	Horizontal
2	110.59059	-14.98	36.66	21.68	43.50	21.82	100	169	Horizontal
3	345.56556	-11.23	39.20	27.97	46.00	18.03	100	108	Horizontal
4	431.98198	-8.31	37.44	29.13	46.00	16.87	100	207	Horizontal
5	720.36036	-3.56	41.87	38.31	46.00	7.69	100	199	Horizontal
6	816.48648	-1.48	45.88	44.40	46.00	1.60	100	188	Horizontal

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	816.4864	-1.48	45.67	44.19	46.00	1.81	100	188	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	71.751752	-16.40	47.95	31.55	40.00	8.45	100	94	Vertical
2	108.64864	-14.62	37.02	22.40	43.50	21.10	100	82	Vertical
3	150.4004	-18.83	46.66	27.83	43.50	15.67	100	72	Vertical
4	214.48448	-14.46	42.14	27.68	43.50	15.82	100	11	Vertical
5	343.62362	-11.26	37.67	26.41	46.00	19.59	100	77	Vertical
6	720.36036	-3.56	37.32	33.76	46.00	12.24	100	42	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; 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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--	--	--
--	--	--
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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

RADIATED EMISSION TEST

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

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
3368	56.71	-4.59	52.12	68.2	-16.08	peak
11096	52.97	4.21	57.18	74	-16.82	peak
11096	35.48	4.21	39.69	54	-14.31	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
3368	55.61	-4.59	51.02	68.2	-17.18	peak
11096	52.41	4.21	56.62	74	-17.38	peak
11096	35.46	4.21	39.67	54	-14.33	AVG

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



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

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	56.63	-4.59	52.04	68.2	-16.16	peak
10523	51.98	4.21	56.19	68.2	-12.01	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	56.76	-4.59	52.17	68.2	-16.03	peak
10523	54.15	4.21	58.36	68.2	-9.84	peak

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



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

Horizontal:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2705	56.79	-4.59	52.2	74	-21.8	
2705	45.75	-4.59	41.16	54	-12.84	AVG
11717	53.58	4.84	58.42	74	-15.58	peak
11717	42.65	4.84	47.49	54	-6.51	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2705	56.73	-4.59	52.14	74	-21.86	
2705	44.67	-4.59	40.08	54	-13.92	AVG
11717	52.88	4.84	57.72	74	-16.28	peak
11717	42.51	4.84	47.35	54	-6.65	AVG

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

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 record 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.





5.8G 802.11n20 Mode

LOW CH 149

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	57.06	-4.59	52.47	68.2	-15.73	peak
11096	53.73	4.21	57.94	74	-16.06	peak
11096	35.82	4.21	40.03	54	-13.97	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	55.97	-4.59	51.38	68.2	-16.82	peak
11096	52.32	4.21	56.53	74	-17.47	peak
11096	35.78	4.21	39.99	54	-14.01	AVG

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



MID CH157

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
3172	52.66	-4.59	48.07	68.2	-20.13	peak
10523	51.36	4.21	55.57	68.2	-12.63	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
3172	59.93	-4.59	55.34	68.2	-12.86	peak
10523	47.97	4.21	52.18	68.2	-16.02	peak

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



HIGH CH165

Horizontal:

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
2705	57.24	-4.59	52.65	74	-21.35	
2705	41.88	-4.59	37.29	54	-16.71	AVG
11717	52.92	4.84	57.76	74	-16.24	peak
11717	40.51	4.84	45.35	54	-8.65	AVG

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

Vertical:

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Detector Type
2705	57.83	-4.59	53.24	74	-20.76	
2705	44.71	-4.59	40.12	54	-13.88	AVG
11717	52.36	4.84	57.2	74	-16.8	peak
11717	41.52	4.84	46.36	54	-7.64	AVG

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

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 record 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.



5.8G 802.11n40 Mode

LOW CH 151

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	57.32	-4.59	52.73	68.2	-15.47	peak
11096	54.62	4.21	58.83	74	-15.17	peak
11096	34.42	4.21	38.63	54	-15.37	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3368	59.67	-4.59	55.08	68.2	-13.12	peak
11096	54.48	4.21	58.69	74	-15.31	peak
11096	34.89	4.21	39.1	54	-14.9	AVG

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



MID CH159

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	55.85	-4.59	51.26	68.2	-16.94	peak
10523	50.76	4.21	54.97	68.2	-13.23	peak

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
3172	55.81	-4.59	51.22	68.2	-16.98	peak
10523	52.56	4.21	56.77	68.2	-11.43	peak

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

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 record 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

<b>Test Requirement:</b>	FCC Part15 Section 15.407(g)
<b>Test Method:</b>	ANSI C63.10: 2013
<b>Limit:</b>	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.
<b>Test Setup:</b>	<pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]     subgraph TC [Temperature Chamber]         EUT     end     P[AC/DC Power supply] --- EUT   </pre>
<b>Test Procedure:</b>	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.
<b>Test Result:</b>	PASS
<b>Remark:</b>	N/A



Test Result as follows:

Mode	Voltage (V)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	10.2V	5744.981	-19	5824.983	-17
	12.0V	5744.952	-48	5825.025	25
	13.8V	5744.991	-9	5824.973	-27

Mode	Temperature (°C)	FHL (5745MHz)	Deviation (KHz)	FHH (5825MHz)	Deviation (KHz)
5.8G Band	-30	5745.015	15	5825.023	23
	-20	5745.005	5	5825.012	12
	-10	5744.983	-17	5824.966	-34
	0	5744.992	-8	5824.954	-46
	10	5744.971	-29	5825.013	13
	20	5744.916	-84	5824.954	-46
	30	5745.018	18	5825.015	15
	40	5744.996	-4	5824.988	-12
	50	5744.987	-13	5825.003	3

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## 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. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

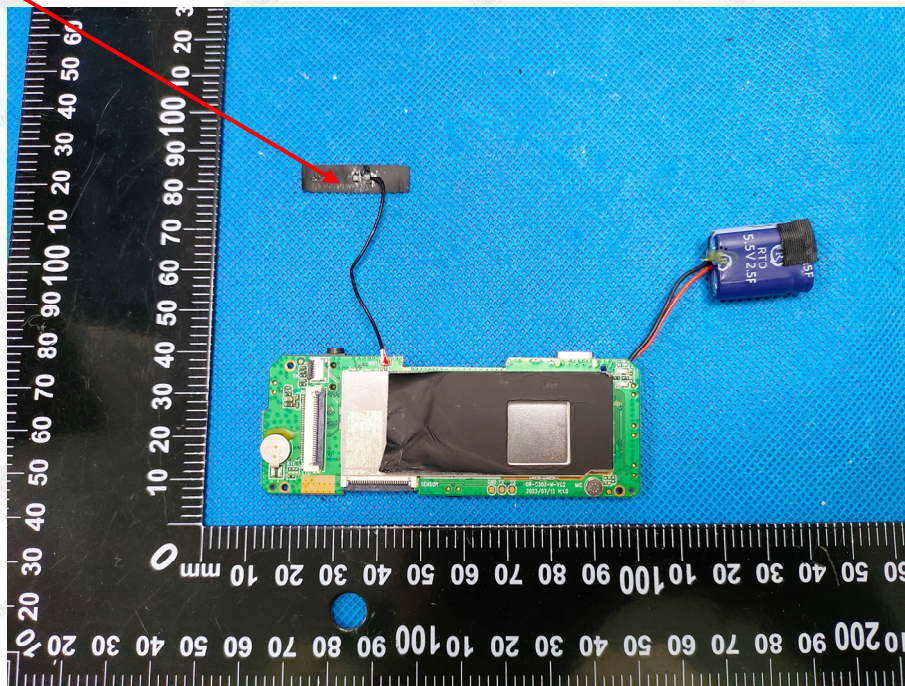
### Refer to statement below for compliance.

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, need professional installation. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 2.89dBi.

### Antenna

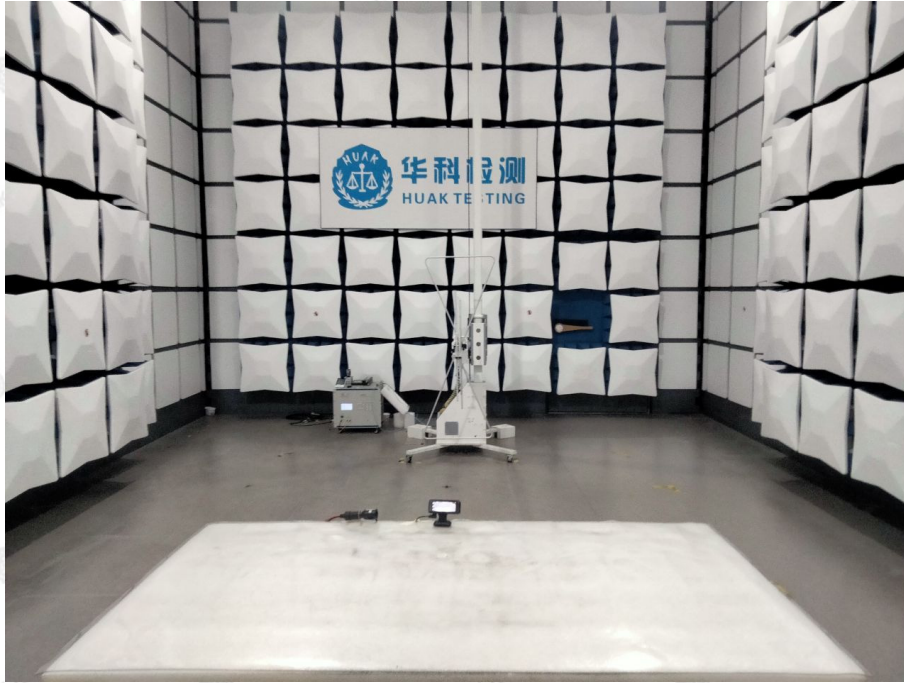






## 5. Photographs of Test Setup

### Radiated Emission



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Conducted Emission



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## **6. Photos of the EUT**

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

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