



Shenzhen CTL Testing Technology Co., Ltd.  
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# TEST REPORT

## 47 CFR Part 15, Subpart C 15.247

Report Reference No.: CTL2408147031-WF02M1

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Product Name: ROBOTIC POOL SKIMMER

Model/Type reference: SKS2

List Model(s): N/A

Trade Mark: Aiper

FCC ID: 2BD5N-SURFERS2

Applicant's name: Shenzhen Aiper Intelligent Co.,Ltd.

Address of applicant: 32nd floor, Block C, Phase 2 Galaxy World, Minle community, Minzhi street, Longhua district, Shenzhen, China

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

Address of Test Firm: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

Test specification:

Standard: 47 CFR Part 15, Subpart C 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz.

TRF Originator: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF: Dated 2011-01

Date of receipt of test item: July 16, 2025

Date of Test Date: July 16, 2025-July 24, 2025

Date of Issue: August 20, 2025

Result: Pass

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# TEST REPORT

<b>Test Report No. :</b>	<b>CTL2408147031-WF02M1</b>	August 20, 2025
<b>Date of issue</b>		

Equipment under Test : ROBOTIC POOL SKIMMER

Sample No : CTL250714802002

Model /Type : SKS2

Listed Models : N/A

**Applicant** : **Shenzhen Aiper Intelligent Co.,Ltd.**

Address : 32nd floor, Block C, Phase 2 Galaxy World, Minle community, Minzhi street, Longhua district, Shenzhen, China

**Manufacturer** : **Shenzhen Aiper Intelligent Co.,Ltd.**

Address : 32nd floor, Block C, Phase 2 Galaxy World, Minle community, Minzhi street, Longhua district, Shenzhen, China

<b>Test result</b>	<b>Pass *</b>
--------------------	---------------

\* In the configuration tested, the EUT complied with the standards specified page 5.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

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

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## 1. SUMMARY

### 1.1. TEST STANDARDS

The tests were performed according to following standards:

[47 CFR Part 15, Subpart C 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

[ANSI C63.10: 2013](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 558074 D01 v05r02](#): KDB558074 D01 15.247 Meas Guidance v05r02

### 1.2. Test Description

47 CFR Part 15, Subpart C 15.247		
47 CFR Part 15, Subpart C 15.207	AC Power Conducted Emission	PASS
47 CFR Part 15, Subpart C 15.109/ 15.205/ 15.209	Radiated Emissions	PASS

## 1.3. Test Facility

### 1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co.,Ltd.  
Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China  
518055

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 32/EN 55032 requirements.

### 1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-Lab Code: L7497**

Shenzhen CTL Testing Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

#### **A2LA-Lab Cert. No. 4343.01**

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

#### **IC Registration No.: 9618B**

#### **CAB identifier: CN0041**

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9618B.

#### **FCC-Registration No.: 399832**

#### **Designation No.: CN1216**

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832.

## 1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.57 dB	(1)
Transmitter power Radiated	±2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±0.01ppm	(1)
Radiated Emission9KHz~30MHz	±3.66dB	(1)
Radiated Emission 30~1000MHz	±4.08dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
20dB Emission Bandwidth	±1.9%	(1)
Carrier Frequency Separation	±1.9%	(1)
Maximum Power Spectral Density Level	±0.98 dB	(1)
Number of Hopping Channel	±1.9%	(1)
Time of Occupancy	±0.11%	(1)
Max Peak Conducted Output Power	±0.98 dB	(1)
Band-edge Spurious Emission	±1.21dB	(1)
Conducted RF Spurious Emission	9kHz-7GHz:±1.09dB 7GHz-26.5GHz: ±3.27dB	(1)
Conducted Disturbance0.15~30MHz	±2.96dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

## 2. GENERAL INFORMATION

### 2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

### 2.2. General Description of EUT

Product Name:	ROBOTIC POOL SKIMMER
Model/Type reference:	SKS2
Power supply:	AC100-240V~50/60Hz 0.4A Max from adapter or DC 10.8V from battery
Adapter information	Model: GQ12-126100-HU Input: 100-240V~50/60Hz 0.4A Max Output: 12.6V --- 1.0A

#### 2.4G Wi-Fi

Supported type:	IEEE 802.11 b/g/n
Modulation:	IEEE 802.11 b: DSSS IEEE 802.11 g/IEEE 802.11 n(HT20)/IEEE 802.11 n(HT40): OFDM
Operation frequency:	IEEE 802.11 b/IEEE 802.11 g/IEEE 802.11 n(HT20): 2412MHz~2472MHz IEEE 802.11 n(HT40): 2422MHz~2462MHz
Channel number:	IEEE 802.11 b/IEEE 802.11 g/IEEE 802.11 n(HT20): 13 IEEE 802.11 n(HT40): 11
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	1.06dBi

Note1: For more details, please refer to the user's manual of the EUT.

Note2: Antenna gain provided by the applicant.

Note3: This report is based on test report CTL2408147031-WF02 with the following modifications. Description of modify and/or change(s):

1. Change of appearance color.
2. Add an accelerometer to the motherboard
3. Remove the button battery from the motherboard.

Modification	Testing	Comments	Result
1	N/A	No additional tests needed	N/A
2,3	Yes	47 CFR Part 15, Subpart C 15.207, 47 CFR Part 15, Subpart C 15.109/ 15.205/ 15.209	PASS

History of amendment and modifications:

Ref. No. CTL2408147031-WF02, dated December 2, 2024 (original test report);

Ref. No. CTL2408147031-WF02M1, dated August 20, 2025 (1st modification);

## 2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

There are 11 channels provided to the EUT and Channel 01/03/06/09/11 were selected for Wi-Fi test.

### Operation Frequency Wi-Fi :

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	<b>2412</b>	8	2447
2	2417	9	<b>2452</b>
3	<b>2422</b>	10	2457
4	2427	11	<b>2462</b>
5	2432		
6	<b>2437</b>		
7	2442		

Note: The line display in grey were the channel selected for testing

### Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Conducted Output Power	11b/DSSS	1 Mbps	1/6/11
Power Spectral Density			
6dB Bandwidth	11g/OFDM	6 Mbps	1/6/11
Spurious RF conducted emission			
Radiated Emission 9kHz~1GHz&	11n(20MHz)/OFDM	6.5Mbps	1/6/11
Radiated Emission 1GHz~10th Harmonic	11n(40MHz)/OFDM	13.5Mbps	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	13.5Mbps	3/9

## 2.4. Equipments Used during the Test

Conducted Emission					
Test Equipment	Manufacturer	Model No.	Serial No.	Last calibration	Calibration Due
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2025/04/29	2026/04/28
LISN	ROHDE & SCHWARZ	ESH2-Z5	860014/010	2025/04/29	2026/04/28
Limitator	ROHDE & SCHWARZ	ESH3-Z2	100408	2025/04/29	2026/04/28

Software:					
Name of Software:	Version:				
ES-K1	V1.71				

Radiated Emission					
Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
Active Loop Antenna	Da Ze	ZN30900A	/	2024/04/30	2027/04/29
Double cone logarithmic antenna	Schwarzbeck	VULB 9168	824	2023/02/13	2026/02/12
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2024/11/25	2027/11/24
Horn Antenna	Ocean Microwave	OBH100400	26999002	2025/02/21	2028/02/20
Amplifier	MRT-AP01M06	MRT	S-001	2025/04/29	2026/04/28
Amplifier	Brief&Smart	LNA-4018	2104197	2025/04/30	2026/04/29
EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1166.5950.03	2025/04/29	2026/04/28
Spectrum Analyzer	RS	FSP	1164.4391.38	2025/04/29	2026/04/28

Software:					
Name of Software:	Version:				
EZ EMC(Below 1GHz)	V1.1.4.2				
EZ EMC(Above 1GHz)	V1.1.4.2				

RF Conducted					
Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
Spectrum Analyzer	Keysight	N9020A	MY53420874	2025/04/29	2026/04/28
Temperature/Humidity Meter	Ji Yu	MC501	/	2025/05/06	2026/05/05

Software:					
Name of Software:	Version:				
TST-PASS	V2.0				

## 2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

## 2.6. Modifications

No modifications were implemented to meet testing criteria.

### 3. TEST CONDITIONS AND RESULTS

#### 3.1. Conducted Emissions Test

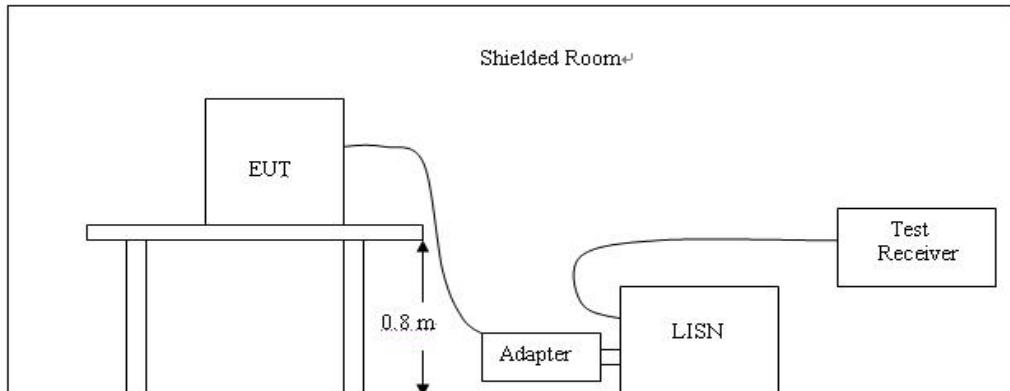
##### LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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

\* Decreases with the logarithm of the frequency.

##### TEST CONFIGURATION

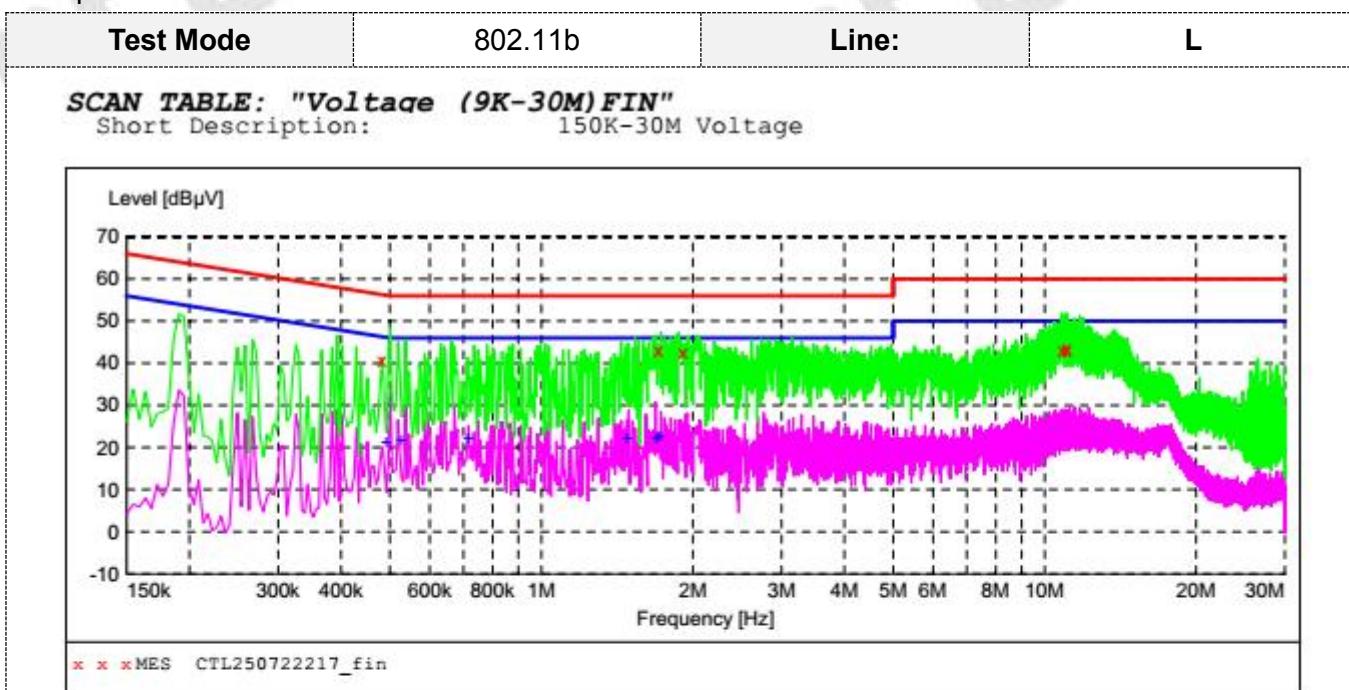


##### TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a a landing system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

**TEST RESULTS**

Remark:802.11b/802.11g/802.11n(HT20)/802.11n(HT40) mode all have been tested ,only worse case is reported.

**MEASUREMENT RESULT: "CTL250722217\_fin"**

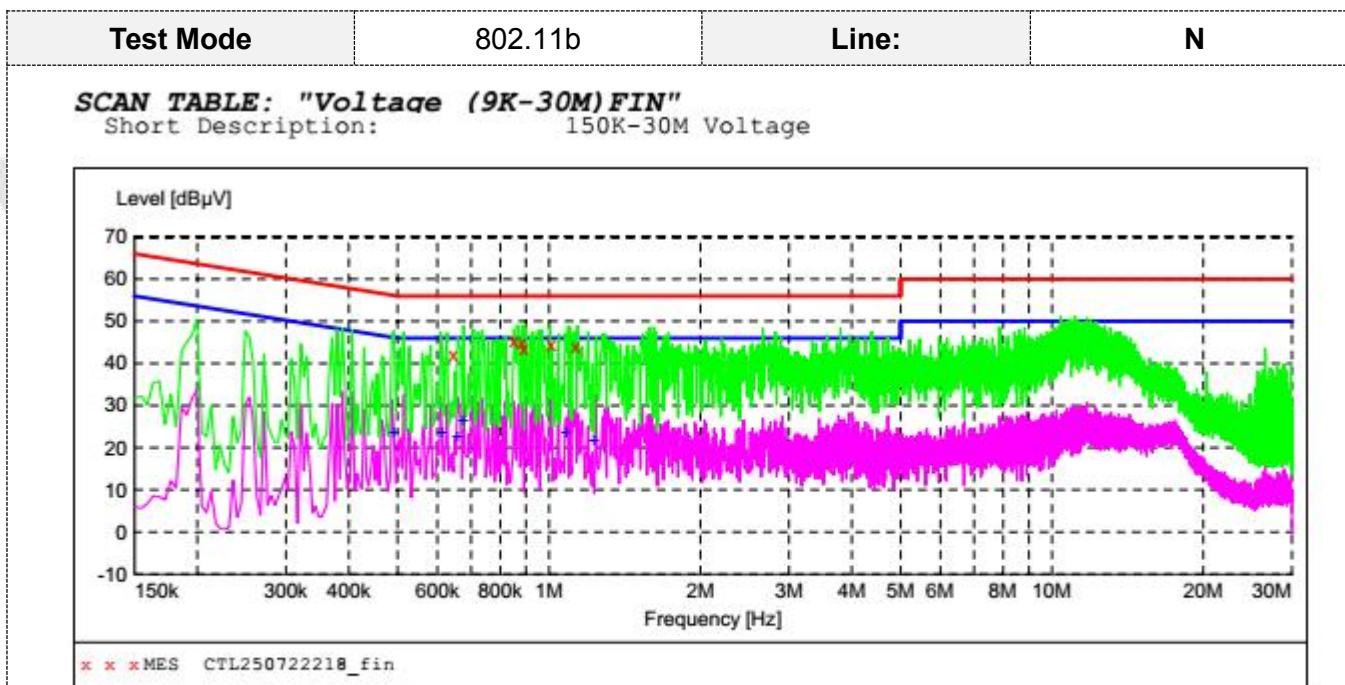
7/22/2025 4:20PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.483000	40.50	10.0	56	15.8	QP	L1	GND
1.707000	43.00	10.1	56	13.0	QP	L1	GND
1.914000	42.60	10.1	56	13.4	QP	L1	GND
10.860000	42.90	10.8	60	17.1	QP	L1	GND
11.053500	43.40	10.8	60	16.6	QP	L1	GND
11.094000	42.90	10.8	60	17.1	QP	L1	GND

**MEASUREMENT RESULT: "CTL250722217\_fin2"**

7/22/2025 4:20PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.492000	21.40	10.0	46	24.7	AV	L1	GND
0.528000	21.70	10.0	46	24.3	AV	L1	GND
0.717000	22.00	10.0	46	24.0	AV	L1	GND
1.482000	21.90	10.1	46	24.1	AV	L1	GND
1.698000	21.90	10.1	46	24.1	AV	L1	GND
1.716000	22.60	10.1	46	23.4	AV	L1	GND



**MEASUREMENT RESULT: "CTL250722218\_fin"**

7/22/2025 4:23PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.645000	42.10	10.0	56	13.9	QP	N	GND
0.852000	45.50	10.1	56	10.5	QP	N	GND
0.883500	44.80	10.1	56	11.2	QP	N	GND
0.892500	43.50	10.1	56	12.5	QP	N	GND
1.009500	44.30	10.1	56	11.7	QP	N	GND
1.131000	43.90	10.1	56	12.1	QP	N	GND

**MEASUREMENT RESULT: "CTL250722218\_fin2"**

7/22/2025 4:23PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.492000	23.60	10.0	46	22.5	AV	N	GND
0.613500	23.60	10.0	46	22.4	AV	N	GND
0.658500	22.60	10.0	46	23.4	AV	N	GND
0.676500	26.30	10.0	46	19.7	AV	N	GND
1.081500	23.50	10.1	46	22.5	AV	N	GND
1.230000	21.80	10.1	46	24.2	AV	N	GND

### 3.2. Radiated Emissions and Band Edge

#### Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

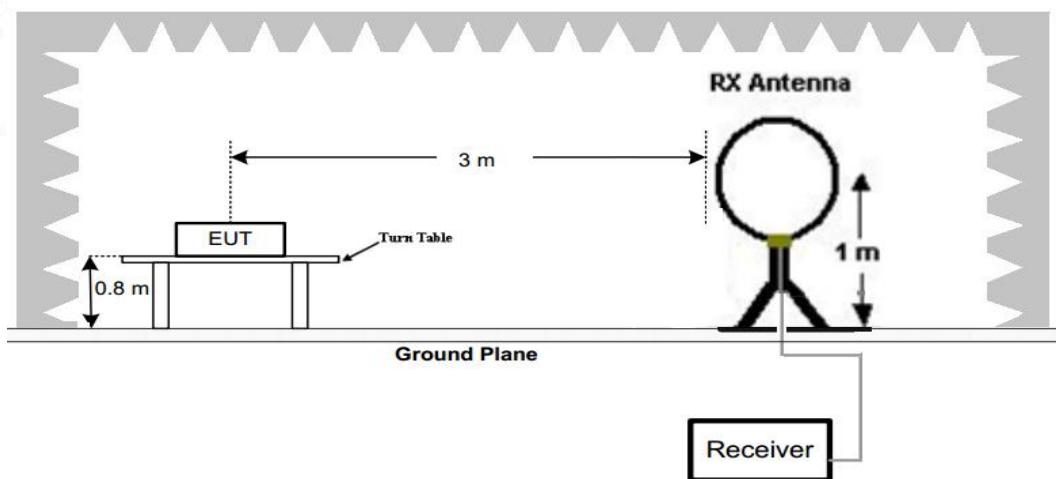
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

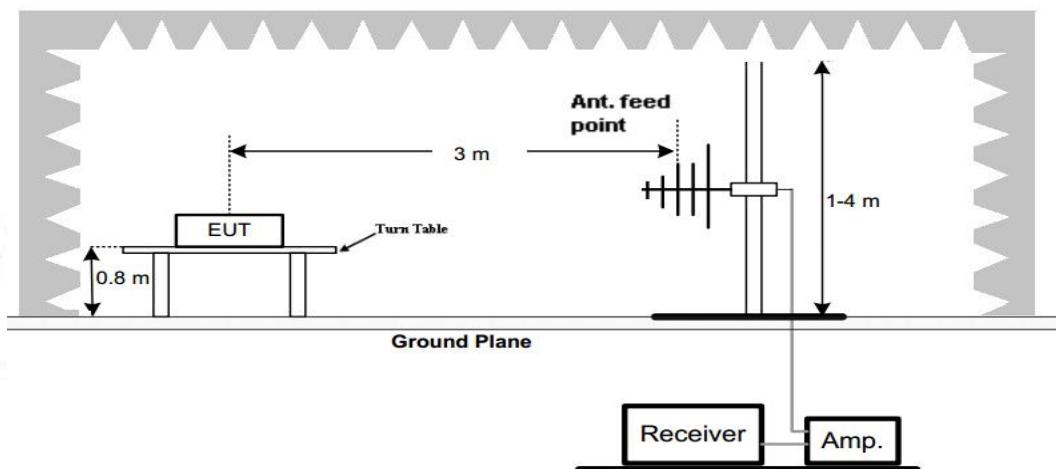
Frequency (MHz)	Distance (Meters)	Radiated (dB $\mu$ V/m)	Radiated ( $\mu$ V/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

#### TEST CONFIGURATION

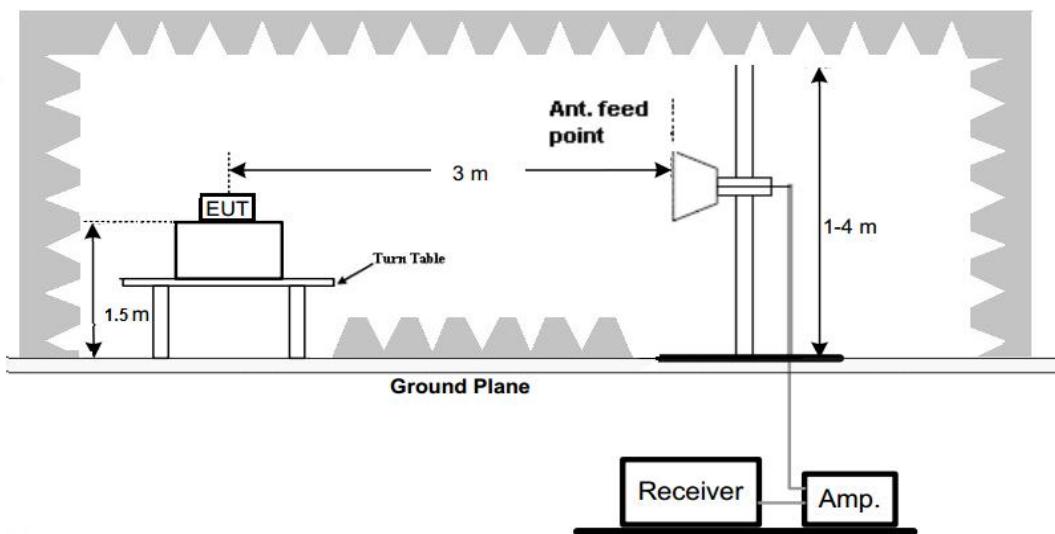
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



### **Test Procedure**

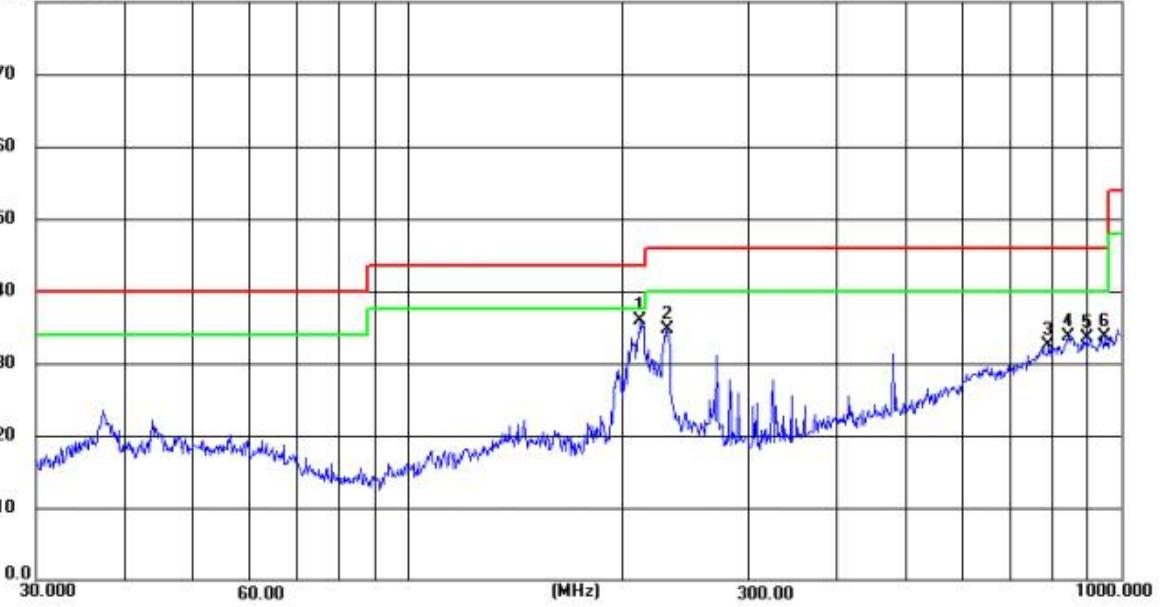
1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

### **TEST RESULTS**

#### Remark:

1. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
2. All three channels (lowest/middle/highest) of each mode were measured above 1GHz and recorded worst case at 802.11b mode.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, Found the emission level are attenuated 20dB below the limits from 9 kHz to 30MHz, so it does not recorded in report.

## For 30MHz-1GHz

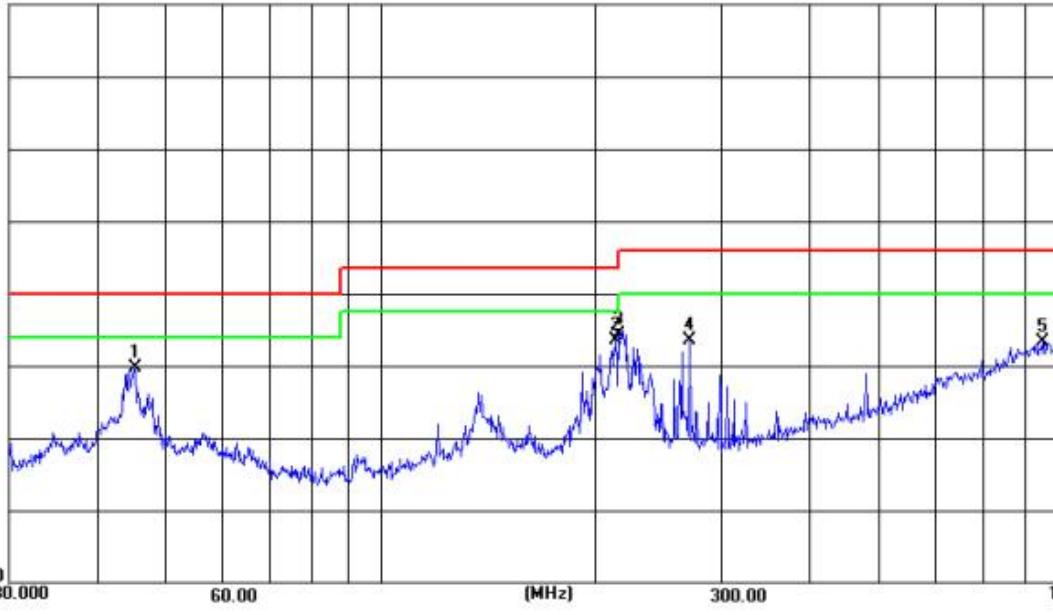
Test mode:	Wi-Fi	Polarization:	Horizontal								
 Shenzhen CTL Testing Technology Co., Ltd Tel: +86-755-89486194											
<b>Radiated Emission Measurement</b>											
File :RF_7      Data #:507      Date: 2025/07/24      Time: 10:12:18											
80.0	dBuV/m										
70											
60											
50											
40											
30											
20											
10											
0.0											
30.000	60.00	(MHz)	300.00								
1000.000											
											
Site LAB Chamber 2		Polarization: <b>Horizontal</b>	Temperature: 25(C)								
Limit: FCC Part15 RE-Class C_30-1000MHz		Power:	Humidity: 50 %								
EUT: /		Distance: 3m									
M/N:											
Mode: WIFI2.4G 2412MHz											
Note: CTL2408147031-WFM1											
/											
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	211.7120	24.01	11.98	35.99	43.50	7.51	peak	100	85	P	
2	231.6163	21.70	13.02	34.72	46.00	11.28	peak	100	271	P	
3	793.0483	7.08	25.49	32.57	46.00	13.43	peak	100	314	P	
4	843.2377	7.55	26.22	33.77	46.00	12.23	peak	100	358	P	
5	896.6034	6.98	26.47	33.45	46.00	12.55	peak	100	127	P	
6	949.1770	6.57	27.11	33.68	46.00	12.32	peak	100	300	P	

**Test mode:** Shenzhen CTL Testing Technology Co., Ltd  
**Wi-Fi**  
**Polarization:** Vertical  


**Radiated Emission Measurement**

File :RF\_7 Data :#508 Date: 2025/07/24 Time: 10:13:09

80.0 dBuV/m



Site LAB Chamber 2 Polarization: **Vertical** Temperature: 25(C)  
 Limit: FCC Part15 RE-Class C\_30-1000MHz Power: Humidity: 50 %  
 EUT: / Distance: 3m  
 M/N:  
 Mode: WIFI2.4G 2412MHz  
 Note: CTL2408147031-WFM1  
 /

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	45.2166	15.23	14.44	29.67	40.00	10.33	peak	100	103	P	
2	213.3889	21.46	12.11	33.57	43.50	9.93	peak	100	233	P	
3	215.4566	22.10	12.30	34.40	43.50	9.10	peak	100	320	P	
4	270.8493	20.09	13.44	33.53	46.00	12.47	peak	100	118	P	
5	845.8289	7.14	26.22	33.36	46.00	12.64	peak	100	233	P	
6	941.3049	6.32	27.09	33.41	46.00	12.59	peak	100	46	P	

## 4. Test Setup Photos of the EUT

Reference to the test report No. CTL2408147031-WF01M1.

## 5. Photos of the EUT

Reference to the test report No. CTL2408147031-WF01M1.

\*\*\*\*\* End of Report \*\*\*\*\*