

FCC Test Report

Applicant	:	Shenzhen Haitao Technology Co.,Ltd.	
Address	:	2F, Building 2, West Industrial Park, Hezhou District, Hangcheng Street, Bao'an District, Shenzhen, China	
Product Name	:	4-IN-1 WIRELESS CHARGER	
Report Date	:	Dec. 12, 2024	



Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China Tel:(86)0755-26066440 Email: service@anbotek.com







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Code:AB-RF-05-b



Hotline 400-003-0500 www.anbotek.com



TEST REPORT

Test Standard(s) Test Method(s)	:	FCC Part15 Subpart C ANSI C63.10: 2020	
Rating(s)	:	Input: 5V-3A, 9V-3A Wireless Charging for Phone: 15W/10W/7.5W/5W Wireless Charging for Earbuds: 5W Wireless Charging for Watch: 2.5W	
Trade Mark	:	N/A	
Model No.	:	HT-539	
Product Name	:	4-IN-1 WIRELESS CHARGER	
Manufacturer	:	Shenzhen Haitao Technology co.,Ltd.	
Applicant	:	Shenzhen Haitao Technology Co.,Ltd.	

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment

Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Aug. 05, 2024

Date of Test

Prepared By

Aug. 05, 2024 to Dec. 11, 2024

Haidi Huang

(HaiDi Huang)

(KingKong Jin)

Approved & Authorized Signer

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Dec. 12, 2024

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1. General Information

1.1. Client Information

Applicant	:	Shenzhen Haitao Technology Co.,Ltd.	
Address	2F, Building 2, West Industrial Park, Hezhou District, Hangcheng Stre Bao'an District, Shenzhen, China		
Manufacturer	:	Shenzhen Haitao Technology co.,Ltd	
Address	:	2F, Building 2, West Industrial Park, Hezhou District, Hangcheng Street, Bao'an District, Shenzhen, China	
Factory	:	Shenzhen Haitao Technology co.,Ltd	
Address	:	2F, Building 2, West Industrial Park, Hezhou District, Hangcheng Street, Bao'an District, Shenzhen, China	

1.2. Description of Device (EUT)

Product Name	:	4-IN-1 WIRELESS CHARGER		
Model No.	:	HT-539		
Trade Mark	•	N/A		
Test Power Supply	•	DC 9V from adapter input AC 120V/60Hz		
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)		
Adapter	•	I/A		
RF Specification				
		Earbuds: 115-205kHz		
Operation Frequency	peration Frequency : Phone: 115-205kHz			
Watch: 115-205kHz				
Modulation Type	:	ASK		
Antenna Type	:	Inductive loop coil Antenna		
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features				
description, please refer to the manufacturer's specifications or the User's Manual.				

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
Apple Watch	Apple	iwatch s6	/
Apple AirPods	Apple	AirPods Pro	/
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF

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1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Modes &Folding Mode	Descriptions	
TM1	Adapter+WPT Mode (Phone+Watch+Earbuds) (Battery Status: <1%)	
TM2	Adapter+WPT Mode (Phone+Watch+Earbuds) (Battery Status: 50%)	
TM3	Adapter+WPT Mode (Phone+Watch+Earbuds) (Battery Status: >98%)	
TM4	Adapter+WPT Mode (Phone) (Battery Status: <1%)	
TM5	Adapter+WPT Mode (Phone) (Battery Status: 50%)	
TM6	Adapter+WPT Mode (Phone) (Battery Status: >98%)	
TM7	Adapter+WPT Mode (Watch) (Battery Status: <1%)	
TM8	Adapter+WPT Mode (Watch) (Battery Status: 50%)	
TM9	Adapter+WPT Mode (Watch) (Battery Status: >98%)	
TM10	Adapter+WPT Mode (Earbuds) (Battery Status: <1%)	
TM11	Adapter+WPT Mode (Earbuds) (Battery Status: 50%)	
TM12	Adapter+WPT Mode (Earbuds) (Battery Status: >98%)	
TM13	Standby Mode	

Note: Battery Status: <1%, Battery Status: 50%, and Battery Status: >98% load cases(Phone, Watch and Earbuds) were pre-tested for all modes, but we only recorded the worst case.

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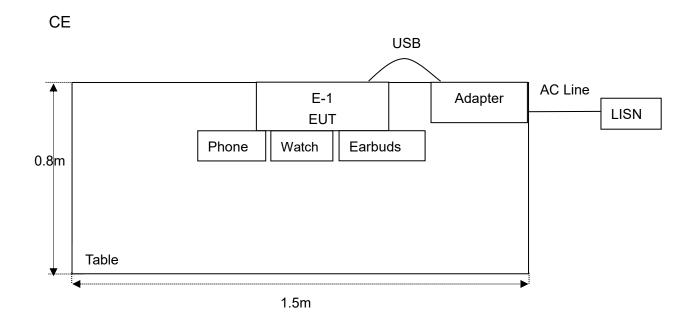
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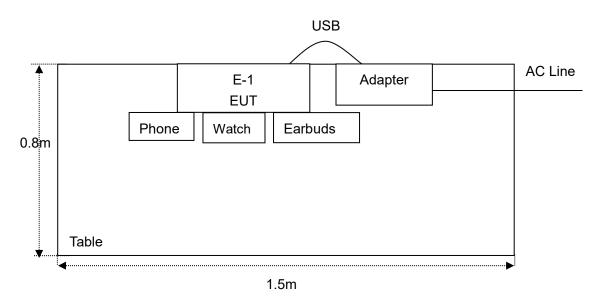




1.5. Description Of Test Setup



RE



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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Jan. 18, 2024	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	Jan. 17, 2024	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Jan. 17, 2024	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Jan. 23, 2024	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Sept. 09, 2024	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	Jan. 17, 2024	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Sept. 12, 2024	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	Jan. 22, 2024	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	Jan. 17, 2024	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Sept. 09, 2024	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Feb. 04, 2024	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 10, 2024	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Sept. 09, 2024	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Oct. 14, 2024	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	May. 06, 2024	1 Year

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1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB

The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description of Test Facility

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

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, 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 No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9. Disclaimer

- 1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- 2. The test report is invalid if there is any evidence and/or falsification.
- 3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- 4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
- 5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- 6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission Test	PASS
15.205/15.209	Spurious Emission	PASS
15.215(c)	20dB Occupy Bandwidth	PASS

Note: N/A" denotes test is not applicable in this Test Report

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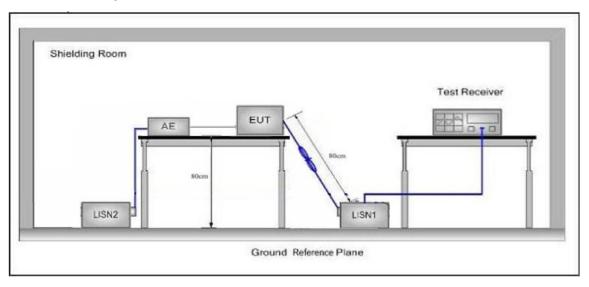


3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207			
	Frequency	Maximum RF Line Voltage (dBuV)		
Test Limit		Quasi-peak Level	Average Level	
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
	500kHz~5MHz	56	46	
	5MHz~30MHz	60	50	
Remark: (1) *Decreasing linearly with logarithm of the frequency.				
(2) The lower limit shall apply at the transition frequency.				

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report. Please to see the following pages.

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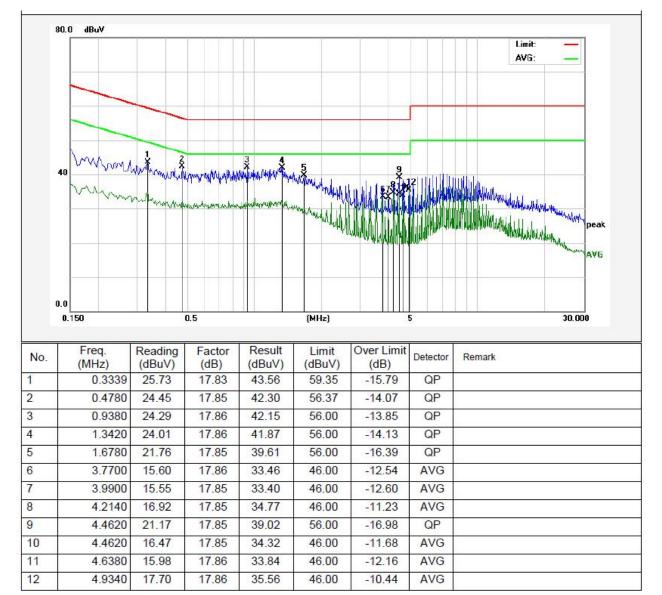






Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	TM1
Test Specification:	DC 9V from adapter input AC 120V/60Hz
Comment:	Live Line
Temp.(°C)/Hum.(%RH):	23.9℃/50%RH



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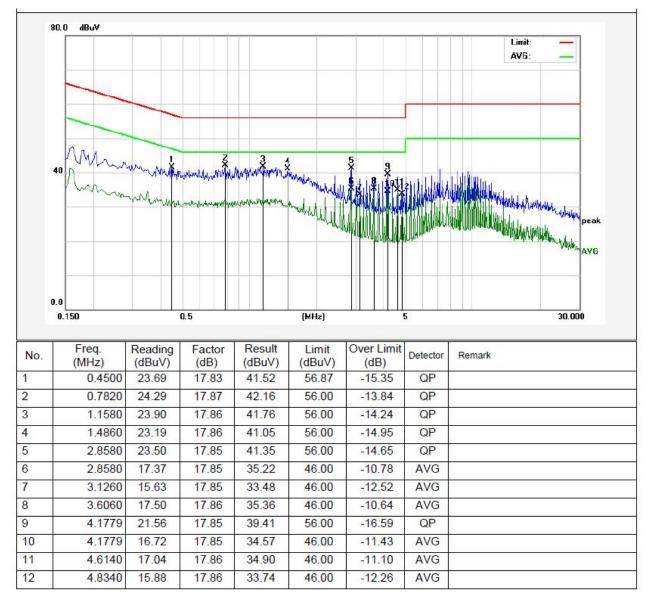






Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	TM1
Test Specification:	DC 9V from adapter input AC 120V/60Hz
Comment:	Neutral Line
Temp.(℃)/Hum.(%RH):	23.9℃/50%RH



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4. Radiation Spurious Emission Test

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205						
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)		
	0.009MHz~0.490MHz	2400/F(kHz)	(ubuv/iii)	_	300		
	0.490MHz-1.705MHz	. ,	-	-	30		
		24000/F(kHz)	-	-			
	1.705MHz-30MHz	30	-	-	30		
Test Limit30MHz~88MHz88MHz~216MHz216MHz~960MHz960MHz~1000MHzAbove 1000MHz	30MHz~88MHz	100	40.0	Quasi-peak	3		
	88MHz~216MHz	150	43.5	Quasi-peak	3		
	216MHz~960MHz	200	46.0	Quasi-peak	3		
	960MHz~1000MHz	500	54.0	Quasi-peak	3		
		500	54.0	Average	3		
		-	74.0	Peak	3		

Remark:

(1)The lower limit shall apply at the transition frequency.

(2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

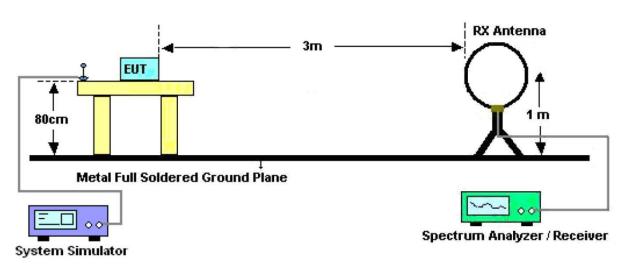


Figure 1. Below 30MHz

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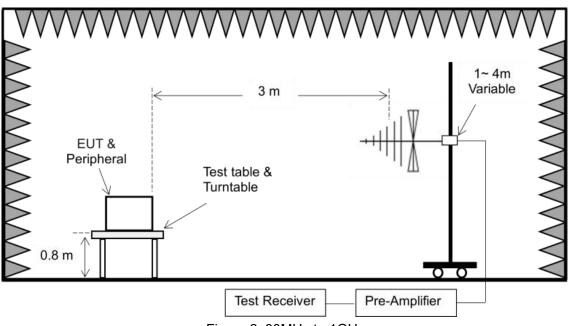


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as: RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as: RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as: RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, pre-scan all modes, only the worst case is recorded in the report. Please to see the following pages.

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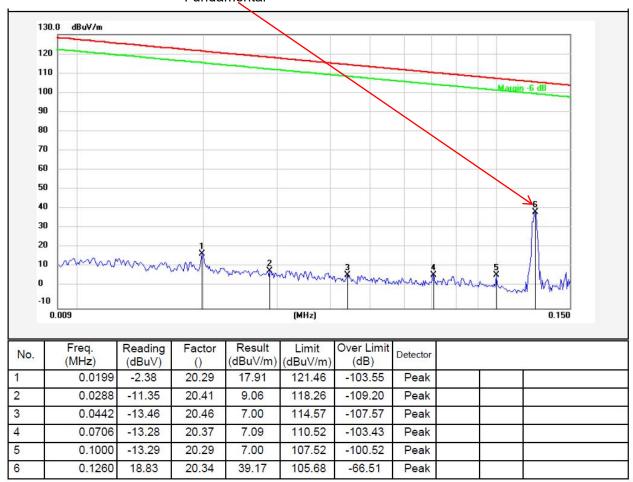






Test Results (Between 9KHz – 150KHz)

Test Mode:	TM4
Distance:	3m
Power Source:	DC 9V from adapter input AC 120V/60Hz
Polarization:	Coplane
Temp.(℃)/Hum.(%RH):	23.5℃/49%RH
	Fundamental



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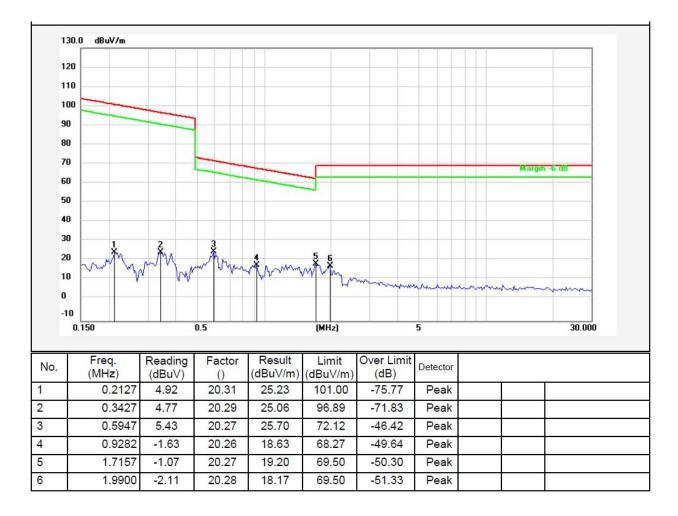






Test Results (Between 0.15MHz - 30MHz)

Test Mode:	TM4
Distance:	3m
Power Source:	DC 9V from adapter input AC 120V/60Hz
Polarization:	Coplane
Temp.(℃)/Hum.(%RH):	23.5℃/49%RH



Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

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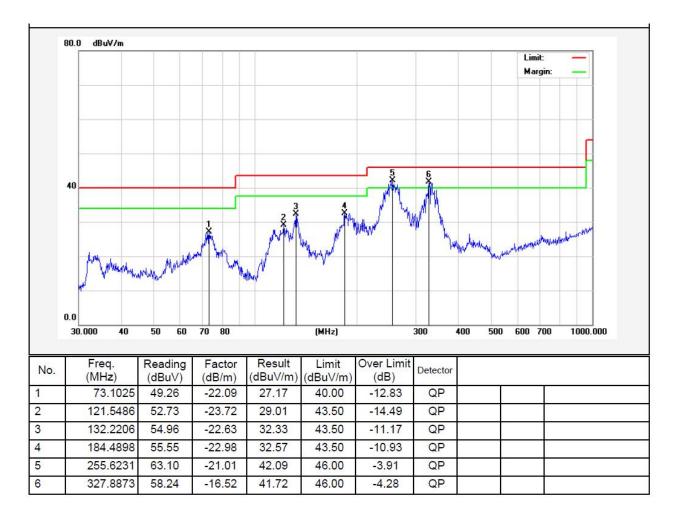






Test Results (Between 30MHz –1000 MHz)

Test Mode:	TM1
Distance:	3m
Power Source:	DC 9V from adapter input AC 120V/60Hz
Polarization:	Horizontal
Temp.(℃)/Hum.(%RH):	20.3℃/46%RH



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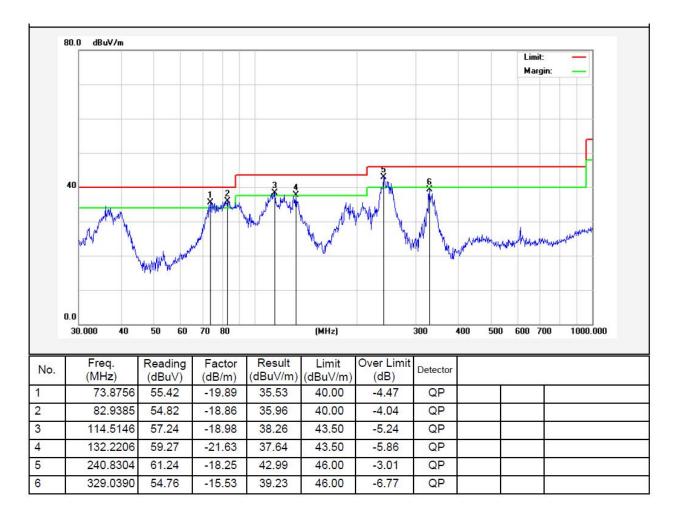
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Test Mode:	TM1
Distance:	3m
Power Source:	DC 9V from adapter input AC 120V/60Hz
Polarization:	Vertical
Temp.(℃)/Hum.(%RH):	20.3℃/46%RH



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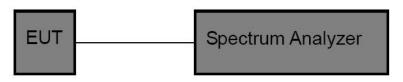


5. 20dB Occupy Bandwidth Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.2. Test Setup



5.3. Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1%-5%OBW, VBW≥3*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

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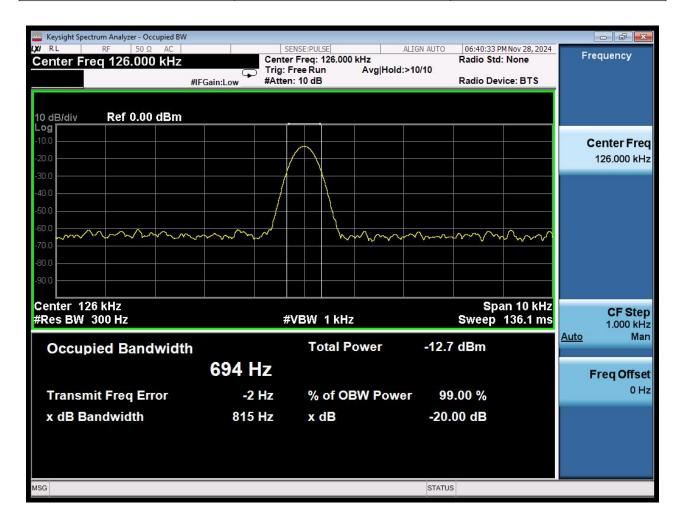


5.4. Test Data

Note: Only the worst case data was showed in the report.

Temperature:	24.7 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa
Test Mode:	TM1				

Freq. (MHz)	20dB Bandwidth (Hz)	Results
0.126	815	PASS
0.1178	818	PASS
0.121	816	PASS



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Report No.: 1812C40013512501 FCC ID: 2BKMD-HT-539

🔤 Keysight Spectrum Analyzer - Occupied BW		5. U			
		SENSE:PULSE er Freq: 117.800 kHz		:47 PM Nov 28, 2024 Std: None	Frequency
Center Freq 117.800 kHz	Trig:	Free Run Avg Hol	d:>10/10		
#1	Gain:Low #Atte	en: 10 dB	Radio	Device: BTS	
10 dB/div Ref 0.00 dBm Log	1	·			
-10.0					Center Freq
-20.0					117.800 kHz
-30.0				0	
-40.0	/				
-50.0					
-60.0					
-70.0	m	man	1 march	my	
-80.0					
-90.0					
-90.0					
Center 117.8 kHz				Span 10 kHz	CF Step
#Res BW 300 Hz		#VBW 1 kHz	Swe	ep 136.1 ms	1.000 kHz
Occupied Bandwidth		Total Power	-12.7 dBm		<u>Auto</u> Man
	00711				
	697 Hz				Freq Offset
Transmit Freq Error	-2 Hz	% of OBW Pow	ver 99.00 %		0 Hz
x dB Bandwidth	818 Hz	x dB	-20.00 dE		
	010 HZ	хuв	-20.00 dE	•	
MSG			STATUS		

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🦲 Keysight Spectrum Analyzer - Occupied BW					
ມ⊯ RL RF 50Ω AC Center Freq 121.000 kHz		r Freg: 121.000 kHz		9:12 PM Nov 28, 2024 o Std: None	Frequency
	Trig: F		d:>10/10	o Device: BTS	
#1	Gain:Low #Atten	10 dB	Radi	b Device: B 1 S	
10 dB/div Ref 0.00 dBm					
-10.0					Center Freq
-20.0	/				121.000 kHz
-30.0				<u>.</u>	
-40.0					
-50.0					
-70.0		~~~~	m	mm	
-80.0					
-90.0					
Center 121 kHz				Onon 40 kHz	
#Res BW 300 Hz	#	VBW 1 kHz	Swe	Span 10 kHz ep 136.1 ms	CF Step 1.000 kHz
		Tetel Devue	40.7 JD:		Auto Man
Occupied Bandwidth		Total Power	-12.7 dBr	n	
	694 Hz				Freq Offset
Transmit Freq Error	-2 Hz	% of OBW Pow	ver 99.00 %	6	0 Hz
x dB Bandwidth	816 Hz	x dB	-20.00 di	в	
				50 - F	
			1		
MSG			STATUS		

Note: The measured signal is Cw-ike, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

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6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
	1) 15.203 requirement:
	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. The use of a
Requirement	permanently attached antenna or of an antenna that uses a unique coupling to the
	intentional radiator, the manufacturer may design the unit so that a broken antenna
	can be replaced by the user, but the use of a standard antenna jack or electrical
	connector is prohibited.

6.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

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