

FCC Test Report

Report No.	: 1812C50421012501
Applicant	: JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	: 3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, 528429, China
Product Name	: 3 in1 Wireless Charger
Report Date	: 2025-11-28

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Manufacturer : JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Product Name : 3 in1 Wireless Charger
Model No. : WPC77
Trade Mark : N/A
Input: 5V=2A, 9V=3A
Rating(s) : Phone Output: 5W/7.5W/10W/15W
Watch Output: 2.5W
Earphone Output: 5W

Test Standard(s) : FCC Part15 Subpart C
Test Method(s) : ANSI C63.10: 2020

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 2025-08-18

Date of Test 2025-08-18 to 2025-9-03

Prepared By

Cecilia Chen

(Cecilia Chen)

Approved & Authorized Signer

Hugo Chen

(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-11-28

1. General Information

1.1. Client Information

Applicant	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	:	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, 528429, China
Manufacturer	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	:	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, 528429, China
Factory	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	:	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, 528429, China

1.2. Description of Device (EUT)

Product Name	:	3 in1 Wireless Charger
Model No.	:	WPC77
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	:	N/A
RF Specification		
Operation Frequency	:	112-205kHz
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.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Apple Watch	Apple	/	/
Apple AirPods	Apple	AirPods Pro	/
Xiaomi 35W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
Wireless charging load	Shenzhen Ouju Technology Co., Ltd.	CD2577	/

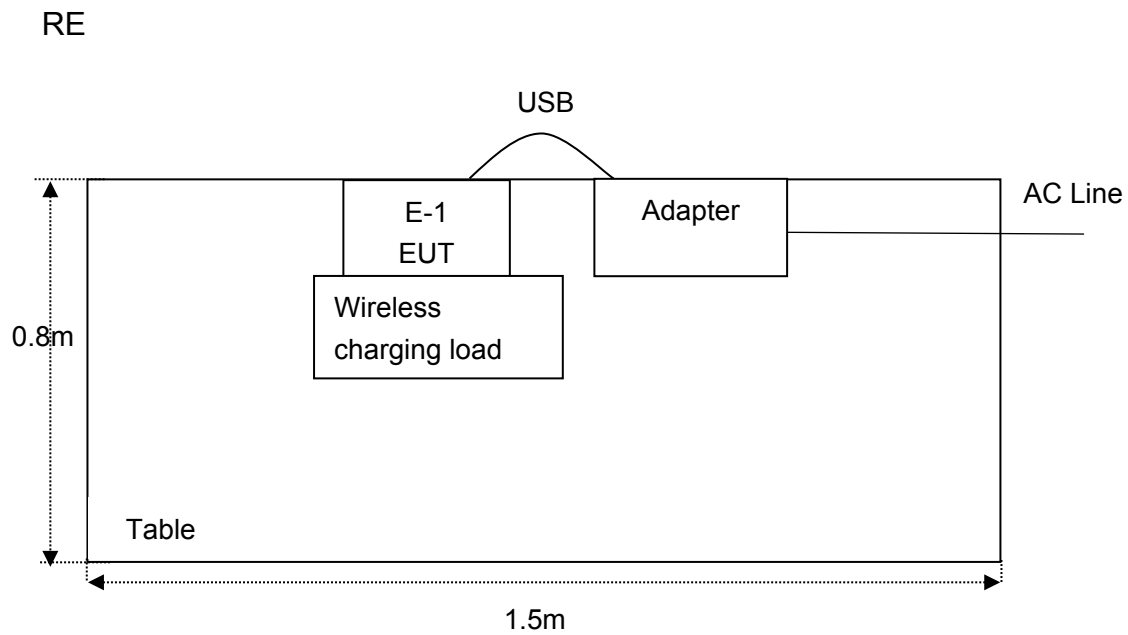
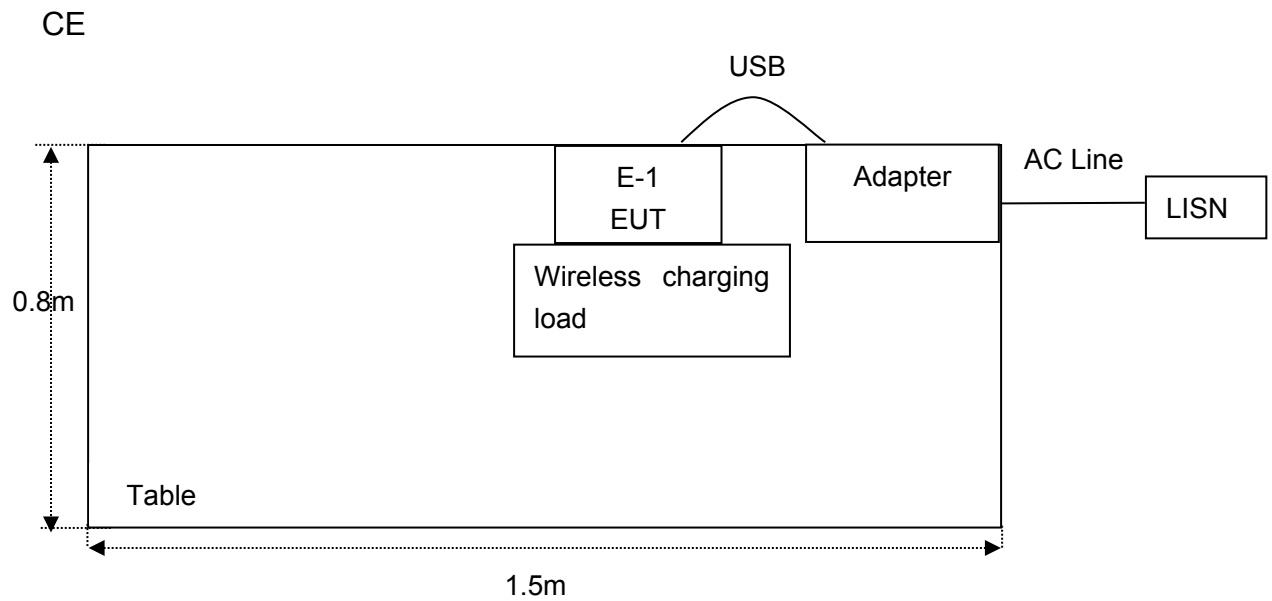
1.4. Description of Test Modes

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	Descriptions
TM1	Adapter+ WPT Mode (Phone(15W) + Watch(2.5W) + Earphone(5W))
TM2	Adapter+ WPT Mode (Phone(10W) + Watch(2.5W) + Earphone(5W))
TM3	Adapter+ WPT Mode (Phone(7.5W) + Watch(2.5W) + Earphone(5W))
TM4	Adapter+ WPT Mode (Phone(5W) + Watch(2.5W) + Earphone(5W))
TM5	Adapter+ WPT Mode (Phone(15W) + Watch(2.5W))
TM6	Adapter+ WPT Mode (Phone(10W) + Watch(2.5W))
TM7	Adapter+ WPT Mode (Phone(7.5W) + Watch(2.5W))
TM8	Adapter+ WPT Mode (Phone(5W) + Watch(2.5W))
TM9	Adapter+ WPT Mode (Phone(15W) + Earphone(5W))
TM10	Adapter+ WPT Mode (Phone(10W) + Earphone(5W))
TM11	Adapter+ WPT Mode (Phone(7.5W) + Earphone(5W))
TM12	Adapter+ WPT Mode (Phone(5W) + Earphone(5W))
TM13	Adapter+ WPT Mode (Watch(2.5W) + Earphone(5W))
TM14	Adapter+ WPT Mode (Phone(15W))
TM15	Adapter+ WPT Mode (Phone(10W))
TM16	Adapter+ WPT Mode (Phone(7.5W))
TM17	Adapter+ WPT Mode (Phone(5W))
TM18	Adapter+ WPT Mode (Watch(2.5W))
TM19	Adapter+ WPT Mode (Earphone(5W))
TM20	Standby Mode

Note: Battery Status: <1%, Battery Status: 50%, and Battery Status: >98% load cases(Phone, Watch and Earphone) were pre-tested for all modes, but we only recorded the worst case(TM1: Adapter+WPT Mode (Phone(15W)(Battery Status: <1%) + Watch(2.5W)(Battery Status: <1%) + Earphone(5W)(Battery Status: <1%)) in this report.

1.5. Description Of Test Setup



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	2024-09-09	1 Year
2.	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	2025-01-13	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2025-01-13	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	2024-09-09	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	2025-01-13	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-13	3 Year
9.	Loop Antenna(9K- 30M)	Schwarzbeck	FMZB1519B	00053	2024-09-12	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	2025-01-14	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	2024-09-09	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2025-01-14	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	2025-02-21	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	2024-09-09	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2024-10-14	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2025-04-25	1 Year

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Occupied Bandwidth	925Hz
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
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.: 279531

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. 279531.

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.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

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

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

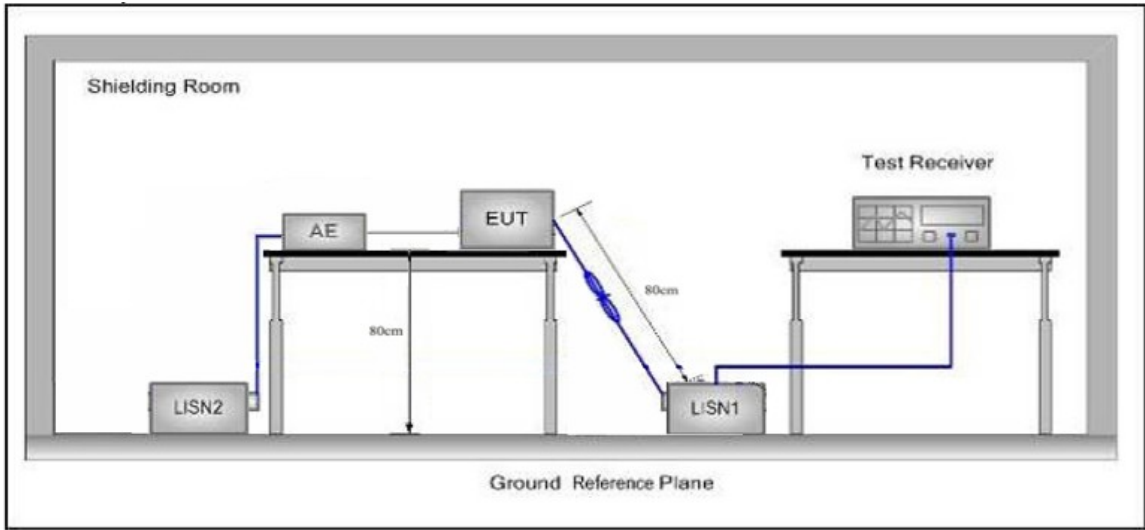
Note: N/A" denotes test is not applicable in this Test Report

3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		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.

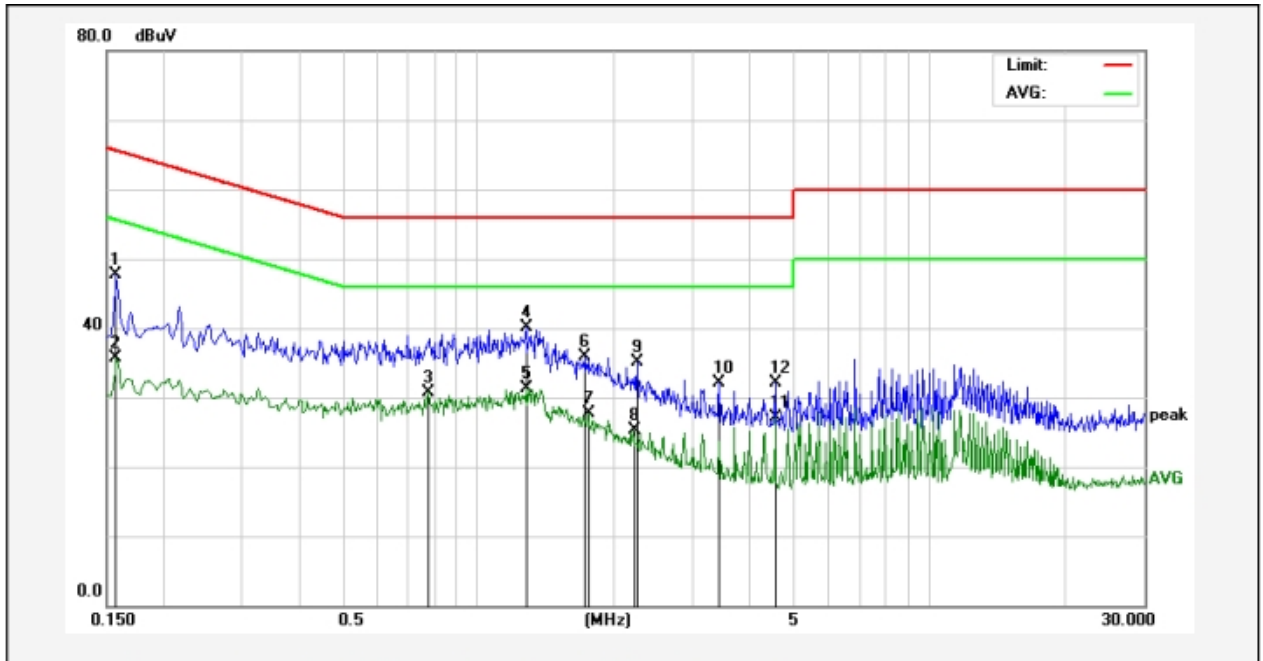
3.4. Test Data

PASS

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

Conducted Emission Test Data

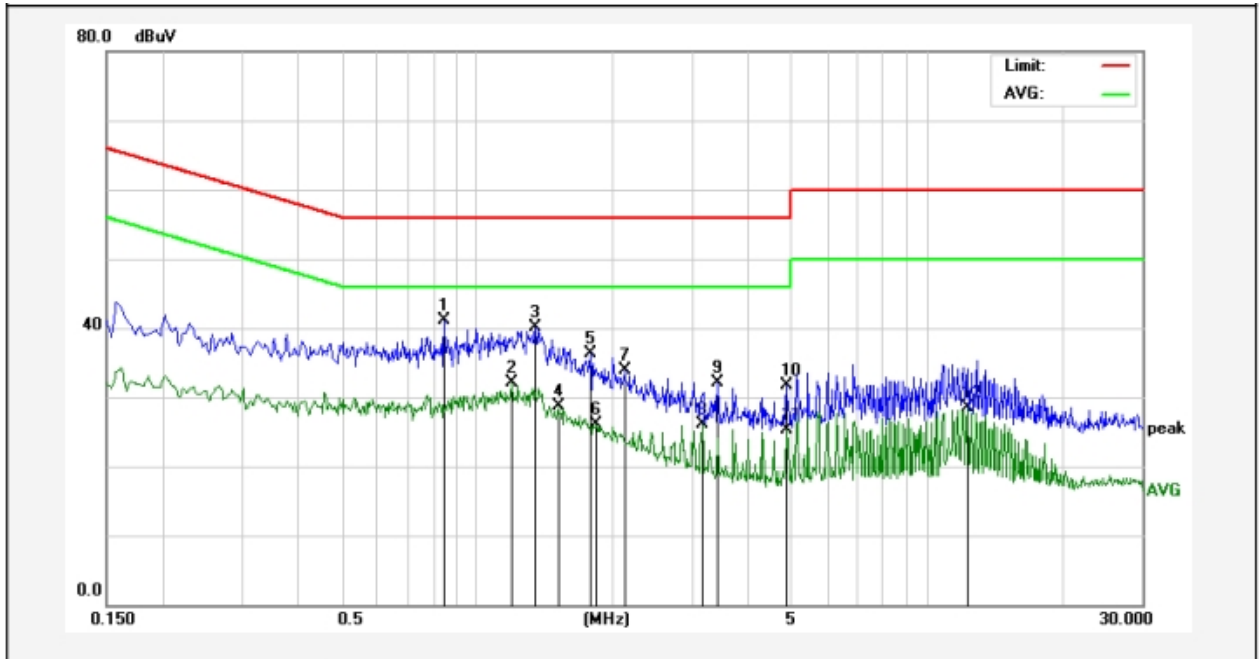
Test Site: 1# Shielded Room
Operating Condition: TM1
Test Specification: AC 120V, 60Hz
Comment: Live Line
Temp.(°C)/Hum.(%RH): 23.6°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1580	29.91	17.83	47.74	65.56	-17.82	QP	
2	0.1580	17.95	17.83	35.78	55.56	-19.78	AVG	
3	0.7780	12.94	17.86	30.80	46.00	-15.20	AVG	
4	1.2780	22.21	17.84	40.05	56.00	-15.95	QP	
5	1.2780	13.43	17.84	31.27	46.00	-14.73	AVG	
6	1.7300	18.08	17.84	35.92	56.00	-20.08	QP	
7	1.7540	9.85	17.84	27.69	46.00	-18.31	AVG	
8	2.2060	7.47	17.83	25.30	46.00	-20.70	AVG	
9	2.2540	17.34	17.83	35.17	56.00	-20.83	QP	
10	3.4220	14.19	17.84	32.03	56.00	-23.97	QP	
11	4.5619	9.16	17.85	27.01	46.00	-18.99	AVG	
12	4.5620	14.33	17.85	32.18	56.00	-23.82	QP	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: TM1
Test Specification: AC 120V, 60Hz
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 23.6°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.8460	23.28	17.86	41.14	56.00	-14.86	QP	
2	1.1940	14.32	17.84	32.16	46.00	-13.84	AVG	
3	1.3500	22.19	17.84	40.03	56.00	-15.97	QP	
4	1.5140	10.77	17.84	28.61	46.00	-17.39	AVG	
5	1.7820	18.41	17.84	36.25	56.00	-19.75	QP	
6	1.8460	8.18	17.83	26.01	46.00	-19.99	AVG	
7	2.1260	16.03	17.83	33.86	56.00	-22.14	QP	
8	3.1700	8.31	17.84	26.15	46.00	-19.85	AVG	
9	3.4300	14.20	17.84	32.04	56.00	-23.96	QP	
10	4.8500	13.86	17.85	31.71	56.00	-24.29	QP	
11	4.8500	7.55	17.85	25.40	46.00	-20.60	AVG	
12	12.2860	10.50	18.07	28.57	50.00	-21.43	AVG	

4. Radiation Spurious Emission Test

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz~1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz~30MHz	30	-	-	30
	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
	Above 1000MHz	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

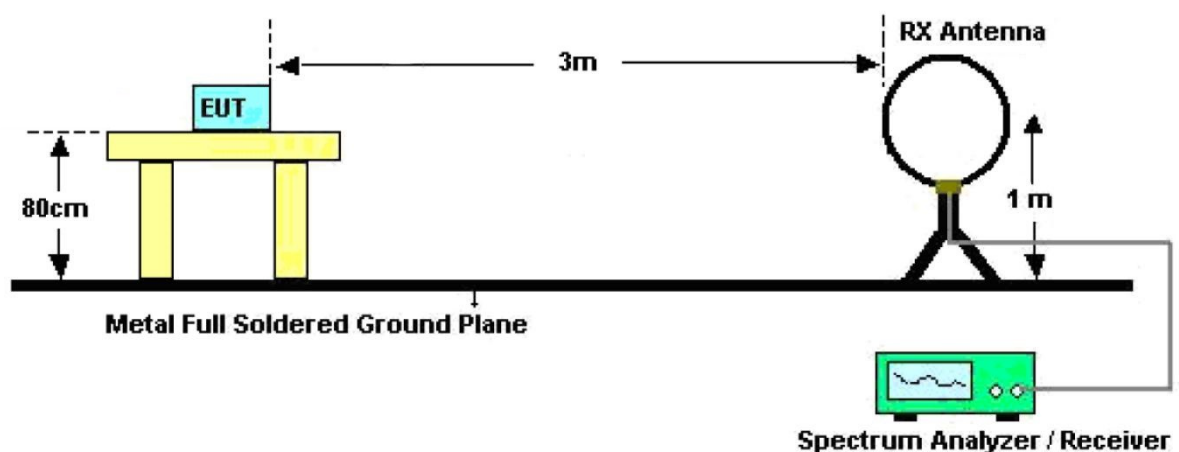


Figure 1. Below 30MHz

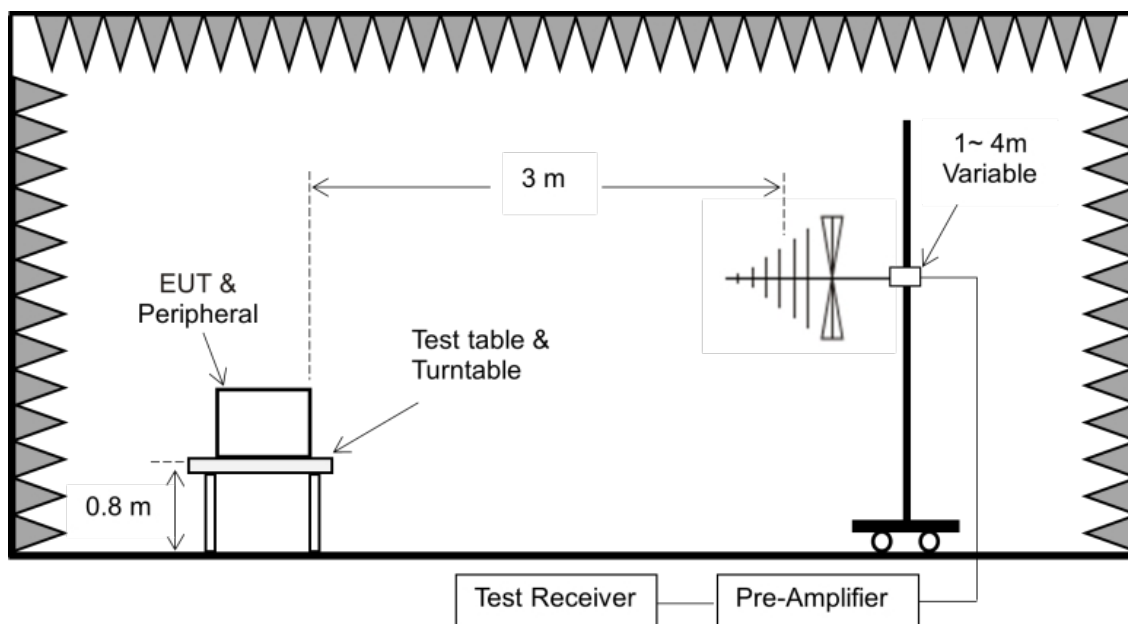


Figure 2. 30MHz to 1GHz

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

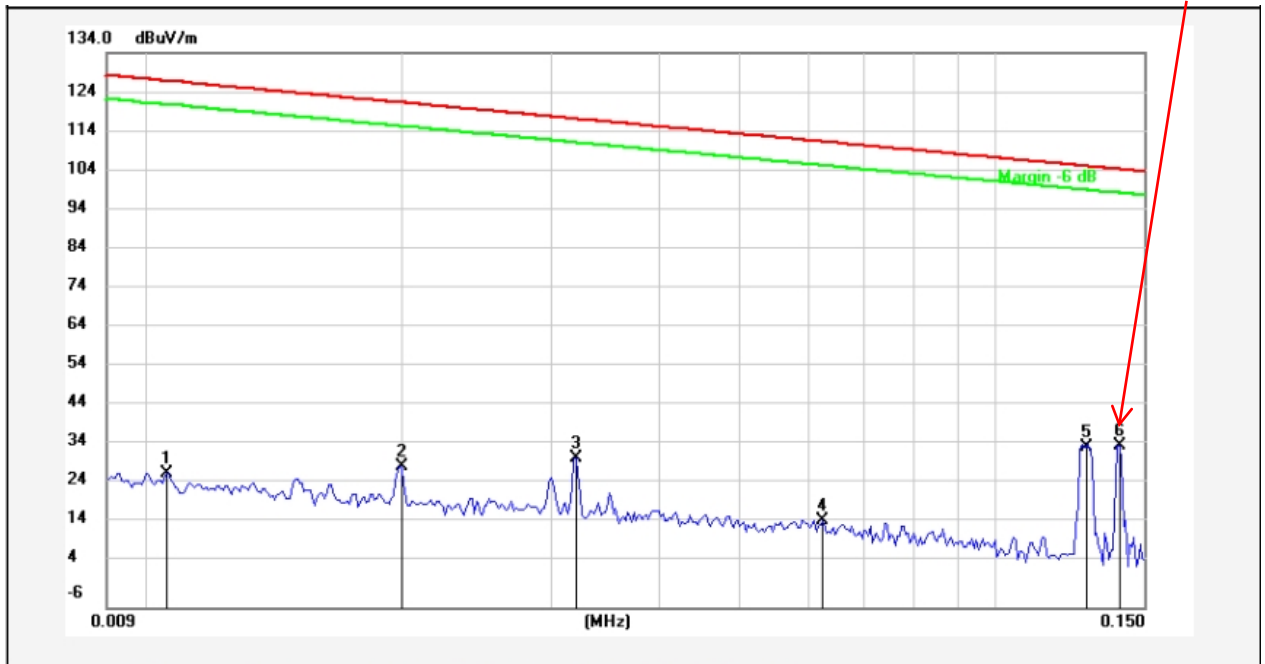
During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.

Test Results (Between 9KHz – 150KHz)

Test Mode: TM1
Distance: 3m
Power Source: AC 120V, 60Hz
Polarization: Coplane
Temp.(°C)/Hum.(%RH): 25.1°C/49%RH

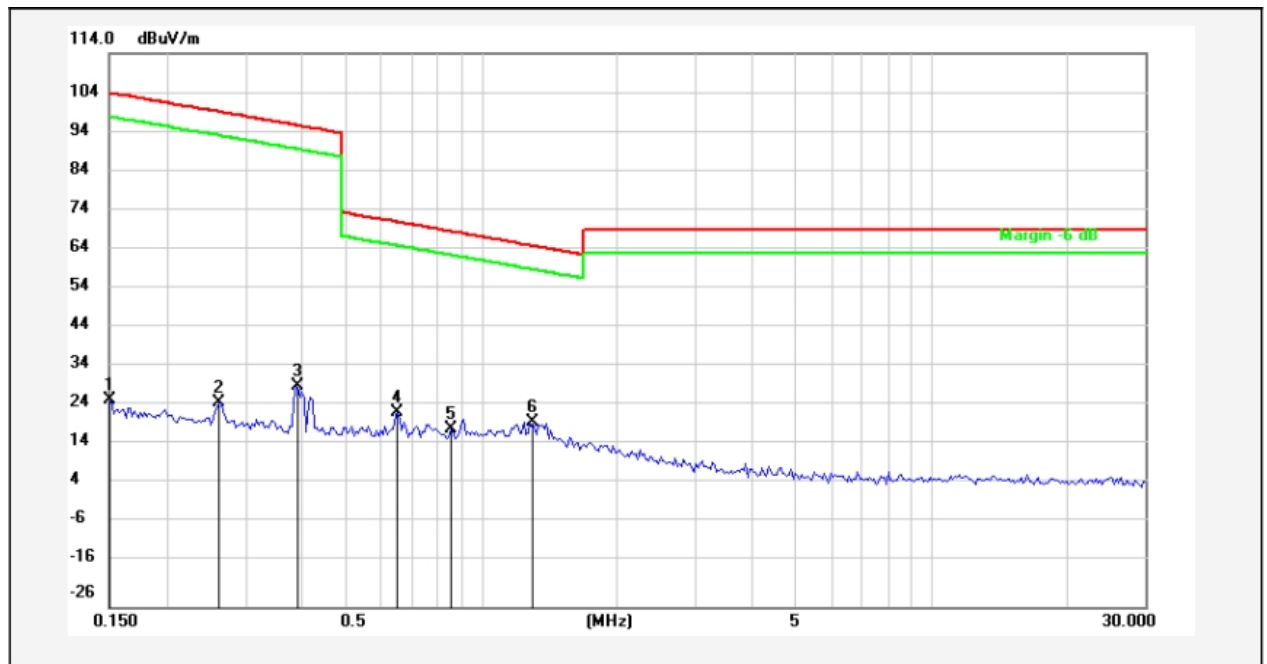
Fundamental



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	0.0106	7.79	20.07	27.86	126.89	-99.03	peak	
2	0.0200	9.14	20.29	29.43	121.41	-91.98	peak	
3	0.0320	10.99	20.56	31.55	117.36	-85.81	peak	
4	0.0627	-4.43	20.38	15.95	111.55	-95.60	peak	
5	0.1280	13.19	20.34	33.53	105.39	-69.86	peak	
6	0.1402	14.59	20.33	34.92	104.60	-69.68	peak	

Test Results (Between 0.15MHz – 30MHz)

Test Mode: TM1
Distance: 3m
Power Source: AC 120V, 60Hz
Polarization: Coplane
Temp.(°C)/Hum.(%RH): 25.1°C/49%RH

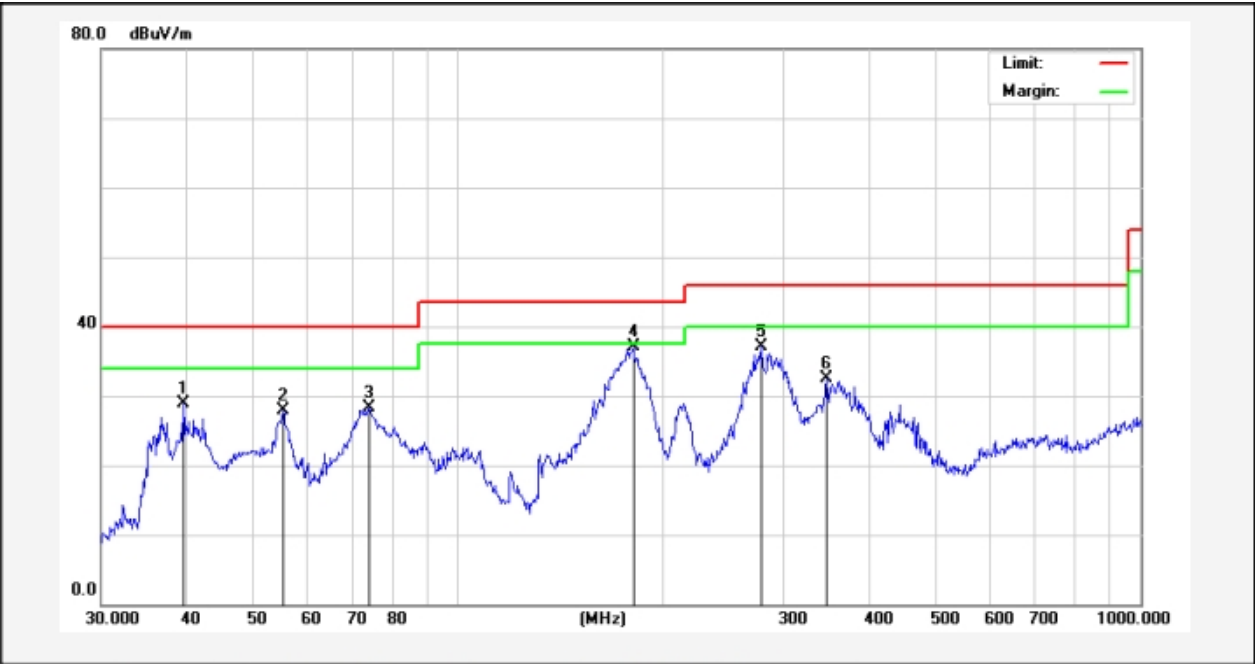


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	0.1500	6.07	20.33	26.40	104.02	-77.62	peak	
2	0.2630	5.40	20.30	25.70	99.17	-73.47	peak	
3	0.3893	9.47	20.28	29.75	95.79	-66.04	QP	
4	0.6543	3.06	20.26	23.32	71.30	-47.98	QP	
5	0.8618	-1.24	20.26	19.02	68.91	-49.89	QP	
6	1.2892	0.58	20.26	20.84	65.42	-44.58	QP	

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.

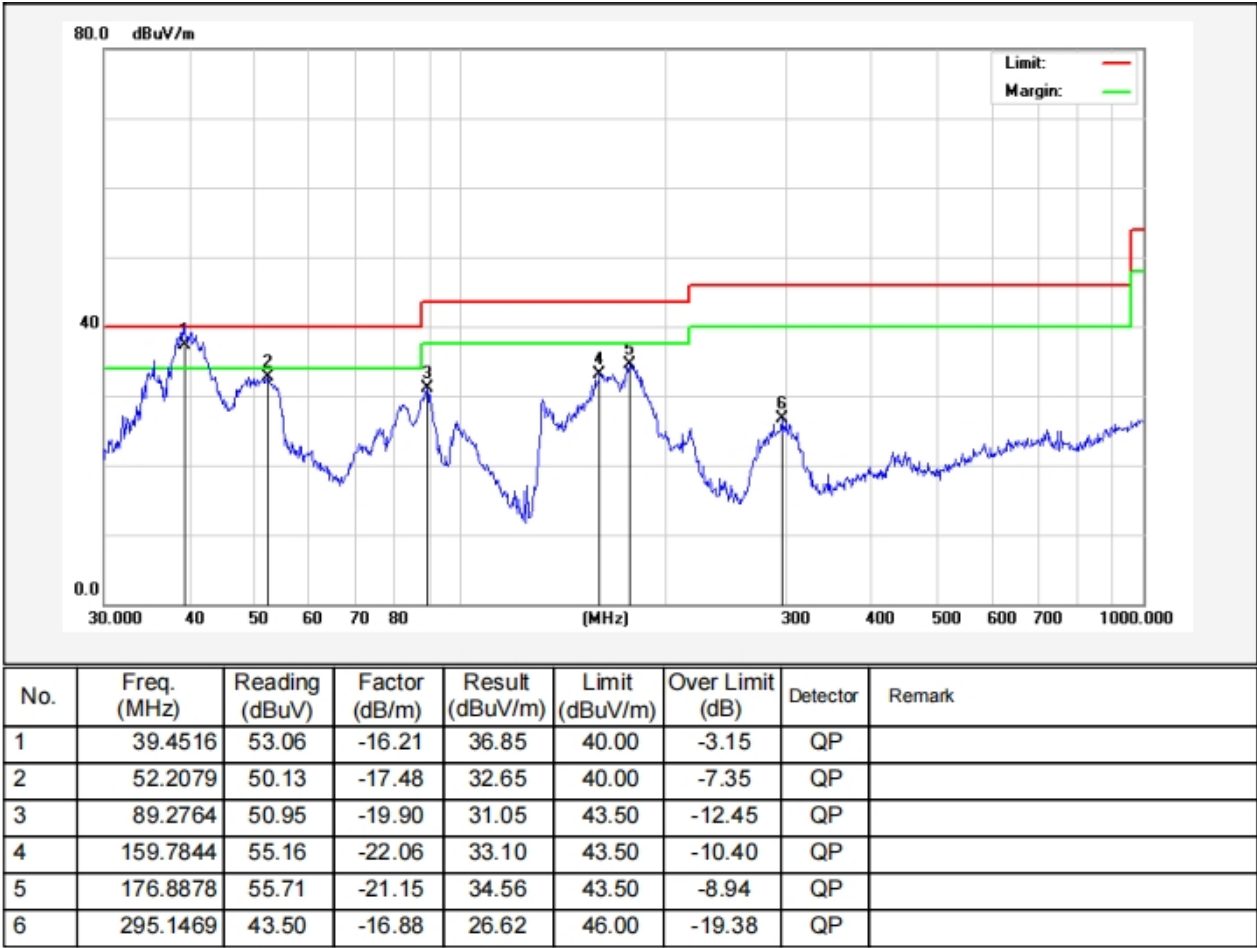
Test Results (Between 30MHz –1000 MHz)

Test Mode: TM1
Distance: 3m
Power Source: AC 120V, 60Hz
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 22.5°C/55%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	39.5757	45.15	-16.16	28.99	40.00	-11.01	QP	
2	55.4147	45.65	-17.76	27.89	40.00	-12.11	QP	
3	74.1351	50.63	-22.37	28.26	40.00	-11.74	QP	
4	180.6488	58.34	-21.23	37.11	43.50	-6.39	QP	
5	278.0668	54.55	-17.43	37.12	46.00	-8.88	QP	
6	346.8092	47.92	-15.49	32.43	46.00	-13.57	QP	

Test Mode: TM1
Distance: 3m
Power Source: AC 120V, 60Hz
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 22.5°C/55%RH

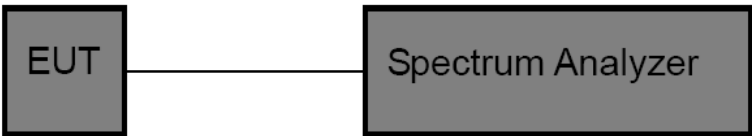


5. 20dB Occupy Bandwidth Test

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

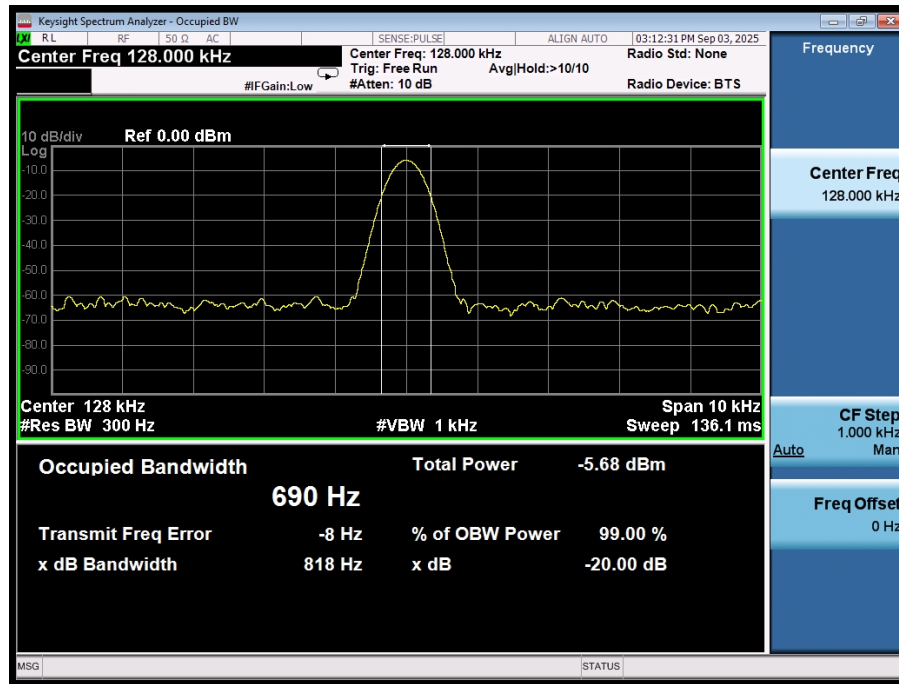
The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW=1%-5%OBW, VBW≥3*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

5.4. Test Data

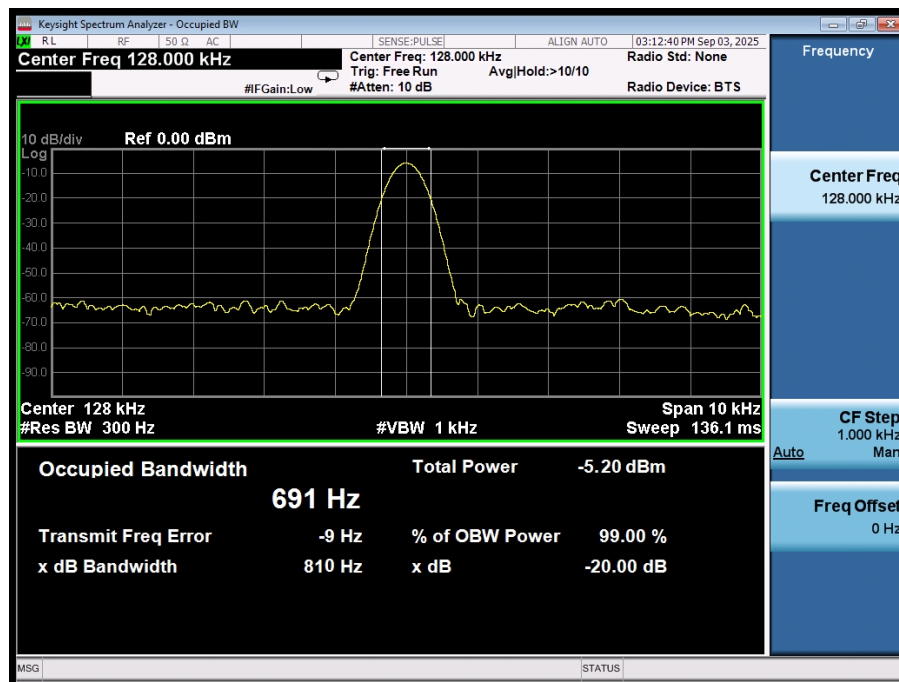
Temperature:	25.7 °C	Humidity:	56 %	Atmospheric Pressure:	101 kPa
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Freq. (MHz)		Bandwidth (kHz)	Results
for Watch	0.128	0.818	PASS
for Earphone	0.128	0.810	PASS
for Phone	0.138	0.813	PASS

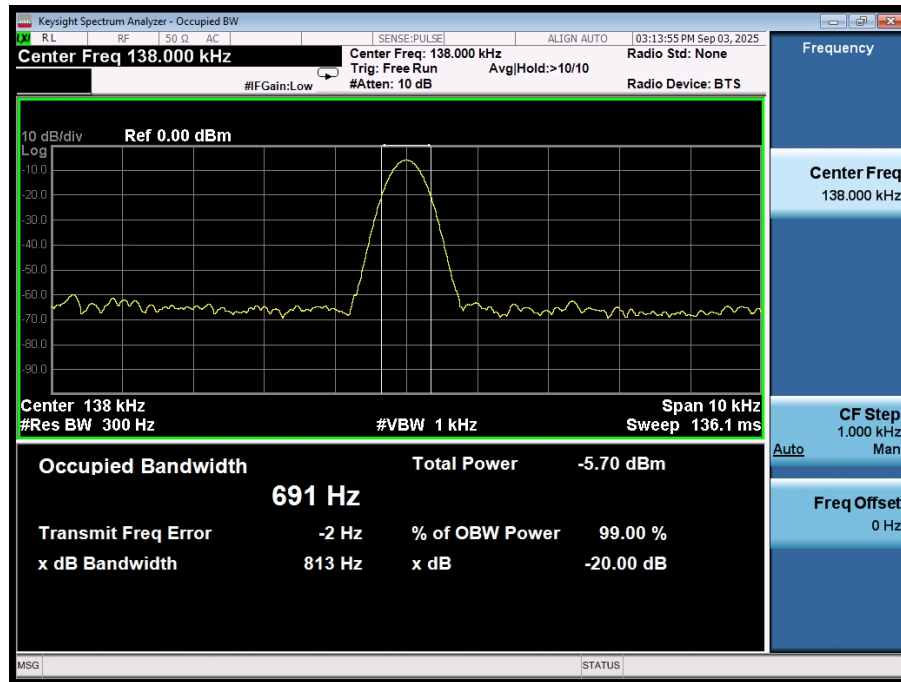
for Watch



for Earphone



for Phone



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

6. Antenna Requirement

6.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	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 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.

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 -----