

FCC Test Report

Report No. : 1812C50333312501

Applicant : HWLT_FZE

Address : Dubai World Trade Center Sheikh Rashid
Tower 04 FZF 312 SRT, Dubai, United Arab
Emirates

Product Name : Wireless Charger

Report Date : 2025-08-19

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : HWLT_FZE
Manufacturer : Dongguan Agilian Technologies Co., Ltd
Product Name : Wireless Charger
Model No. : W-103A
Trade Mark : ERA
Rating(s) : Input: 5VDC, 1A
Wireless 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 2025-01-24

Date of Test 2025-01-24 to 2025-02-14

Prepared By

Macy Ling

(Macy Ling)

Approved & Authorized Signer

Hugo Chen

(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R01	Original Issue. (Note 1)	2025-08-19

Note 1:
This is a Class II application which was based on the original report 1812C50034712501-M1. The difference between the original device and current one described as following:

- 1. Change the Rating(s) “Input: 9VDC, 2A” to “Input: 5VDC, 1A”.

Based on the change made to the device, conducted emission and spurious emission(30MHz~1GHz) were retested, other tests will retain the original test results.

1. General Information

1.1. Client Information

Applicant	:	HWLT_FZE
Address	:	Dubai World Trade Center Sheikh Rashid Tower 04 FZF 312 SRT, Dubai, United Arab Emirates
Manufacturer	:	Dongguan Agilian Technologies Co., Ltd
Address	:	Room 202, 2nd floor, No.3 Dongyi Street, Xingfa Community, Wusha Liwu, Chang'an Town, Dongguan City, Guangdong Province, China
Factory	:	Dongguan Agilian Technologies Co., Ltd
Address	:	Room 202, 2nd floor, No.3 Dongyi Street, Xingfa Community, Wusha Liwu, Chang'an Town, Dongguan City, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Charger
Model No.	:	W-103A
Trade Mark	:	ERA
Test Power Supply	:	DC 5V 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	:	119-205kHz
Modulation Type	:	FSK
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

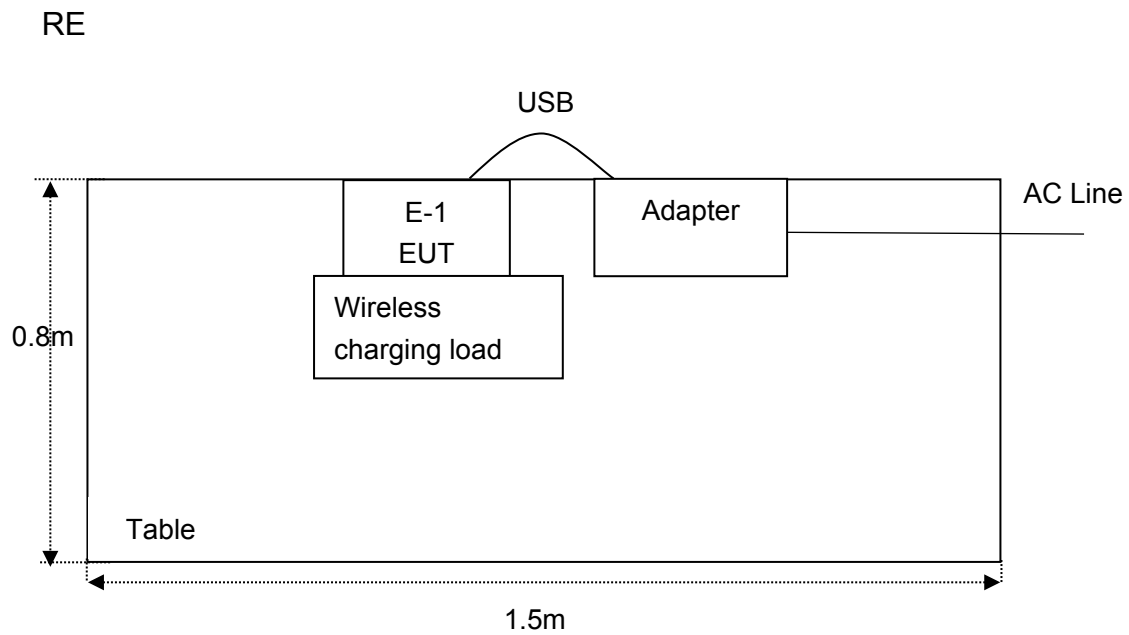
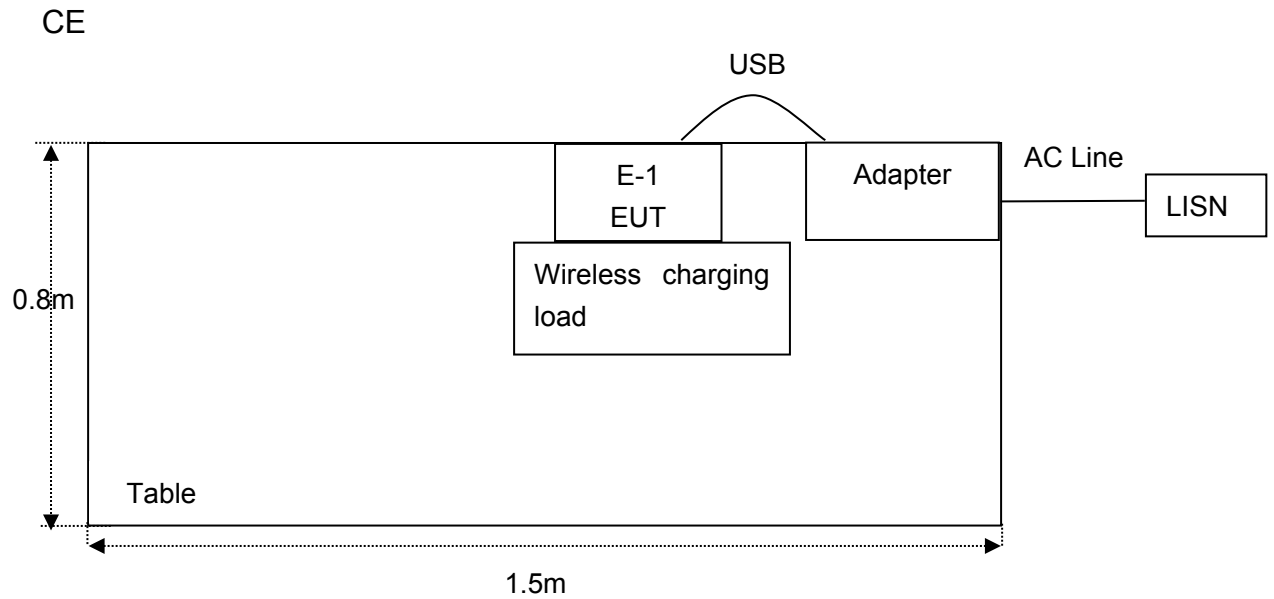
Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J
Wireless load	BAECOAR	15W Smart wireless charger fixture wireless charging	/

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+WTP Mode (5W 1% Load)
TM2	Adapter+WTP Mode (5W 50% Load)
TM3	Adapter+WTP Mode (5W 99% Load)
TM4	Standby Mode

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	2022-10-23	3 Year
9.	Loop Antenna	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	2025-02-21	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	2024-05-06	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

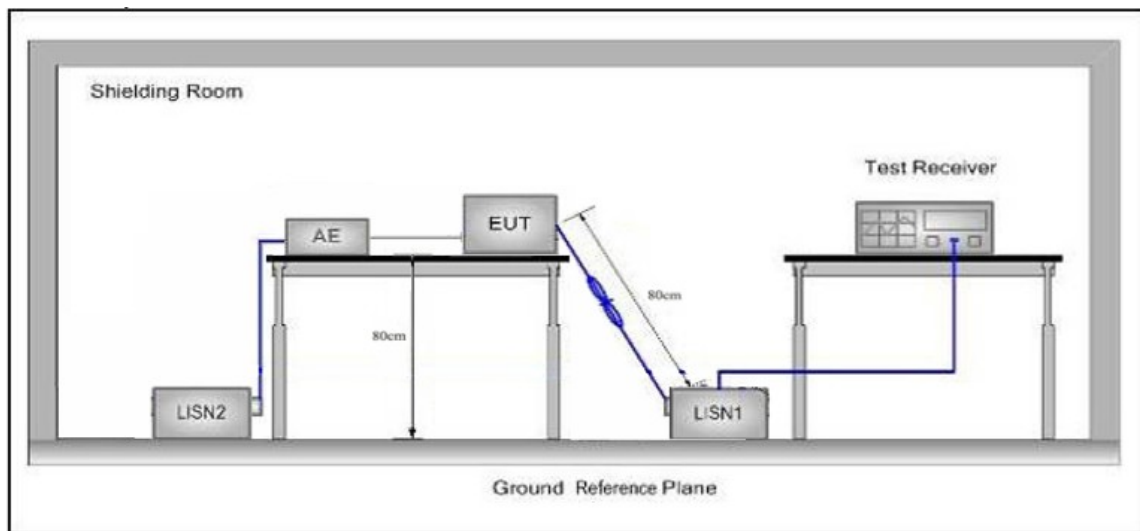
Note: “N/A” denotes test is not applicable in this Test Report

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

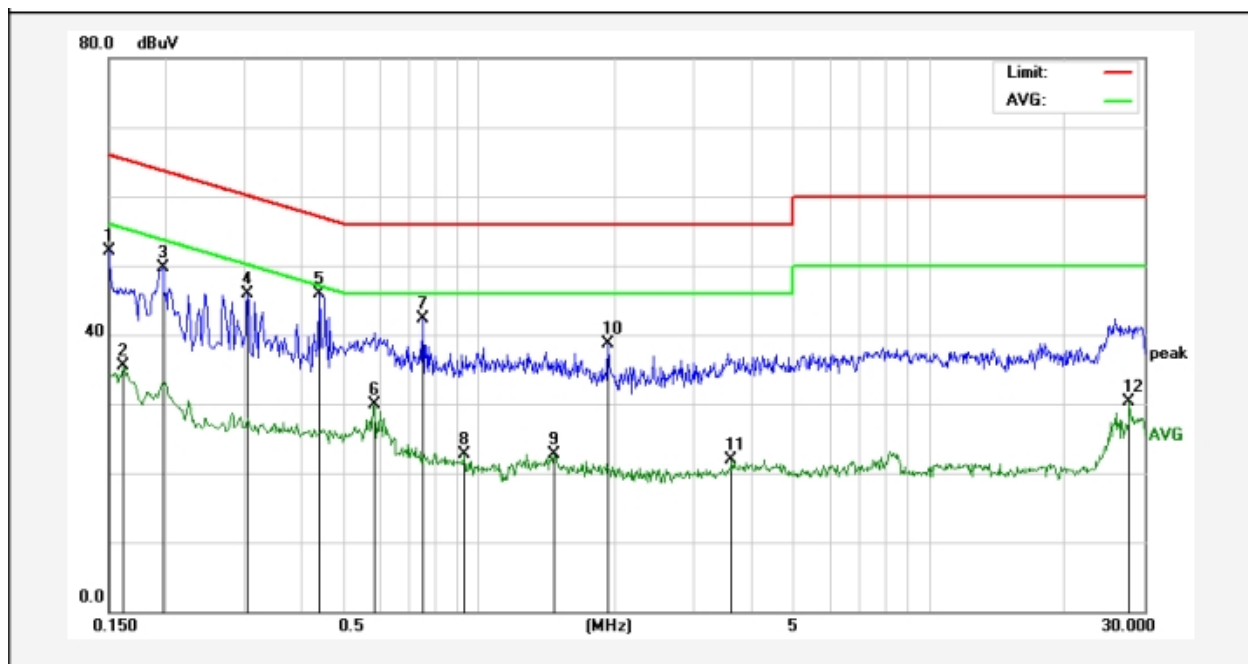
PASS

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

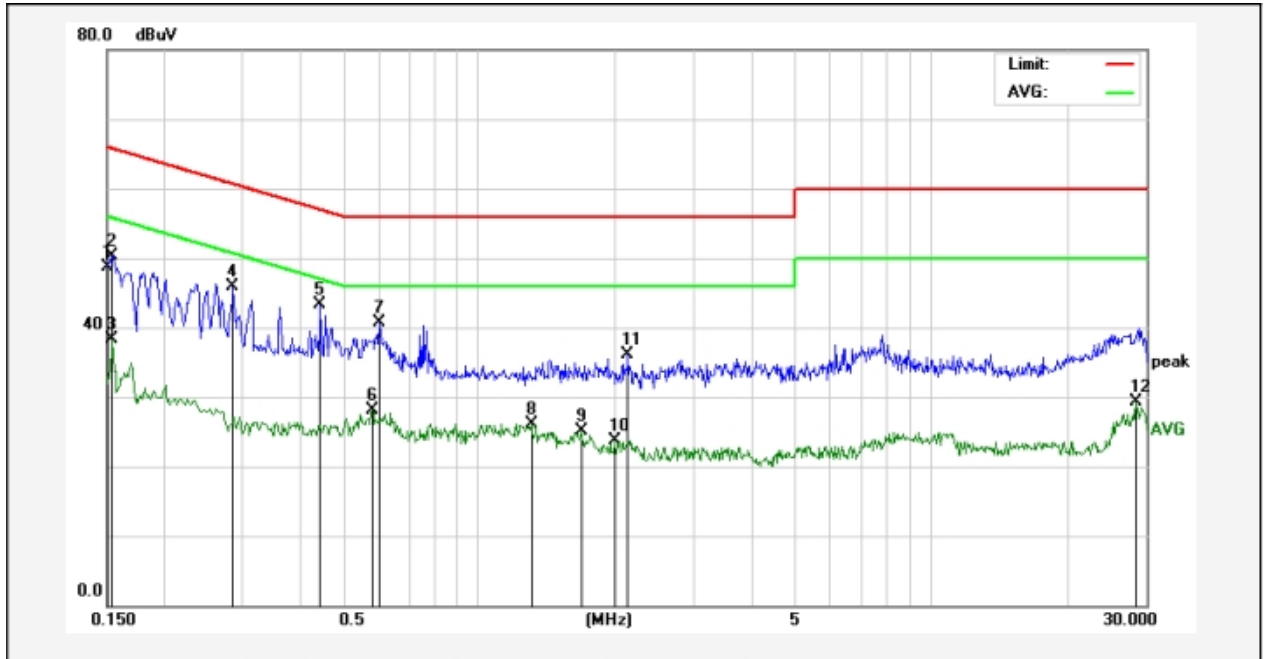
Test Site: 1# Shielded Room
Operating Condition: TM1
Test Specification: DC 5V from adapter input AC 120V/60Hz
Comment: Live Line
Temp.(°C)/Hum.(%RH): 24.6°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	34.38	17.82	52.20	66.00	-13.80	QP	
2	0.1620	17.61	17.83	35.44	55.36	-19.92	AVG	
3	0.1980	31.96	17.82	49.78	63.69	-13.91	QP	
4	0.3059	27.98	17.84	45.82	60.08	-14.26	QP	
5	0.4420	28.04	17.83	45.87	57.02	-11.15	QP	
6	0.5856	12.03	17.86	29.89	46.00	-16.11	AVG	
7	0.7500	24.42	17.87	42.29	56.00	-13.71	QP	
8	0.9260	4.76	17.86	22.62	46.00	-23.38	AVG	
9	1.4657	4.85	17.86	22.71	46.00	-23.29	AVG	
10	1.9336	20.85	17.85	38.70	56.00	-17.30	QP	
11	3.6379	4.05	17.86	21.91	46.00	-24.09	AVG	
12	27.7698	11.72	18.62	30.34	50.00	-19.66	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: TM1
Test Specification: DC 5V from adapter input AC 120V/60Hz
Comment: Neutral Line
Temp.(°C)/Hum.(%RH): 24.6°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1499	30.84	17.82	48.66	66.00	-17.34	QP	
2	0.1532	32.57	17.83	50.40	65.82	-15.42	QP	
3	0.1539	20.49	17.83	38.32	55.78	-17.46	AVG	
4	0.2857	28.06	17.84	45.90	60.65	-14.75	QP	
5	0.4460	25.40	17.83	43.23	56.95	-13.72	QP	
6	0.5816	10.22	17.86	28.08	46.00	-17.92	AVG	
7	0.6018	22.93	17.87	40.80	56.00	-15.20	QP	
8	1.3060	8.32	17.86	26.18	46.00	-19.82	AVG	
9	1.6815	7.25	17.85	25.10	46.00	-20.90	AVG	
10	1.9979	5.90	17.85	23.75	46.00	-22.25	AVG	
11	2.1379	18.19	17.85	36.04	56.00	-19.96	QP	
12	28.5700	10.57	18.66	29.23	50.00	-20.77	AVG	

Remark:

Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);

Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)

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

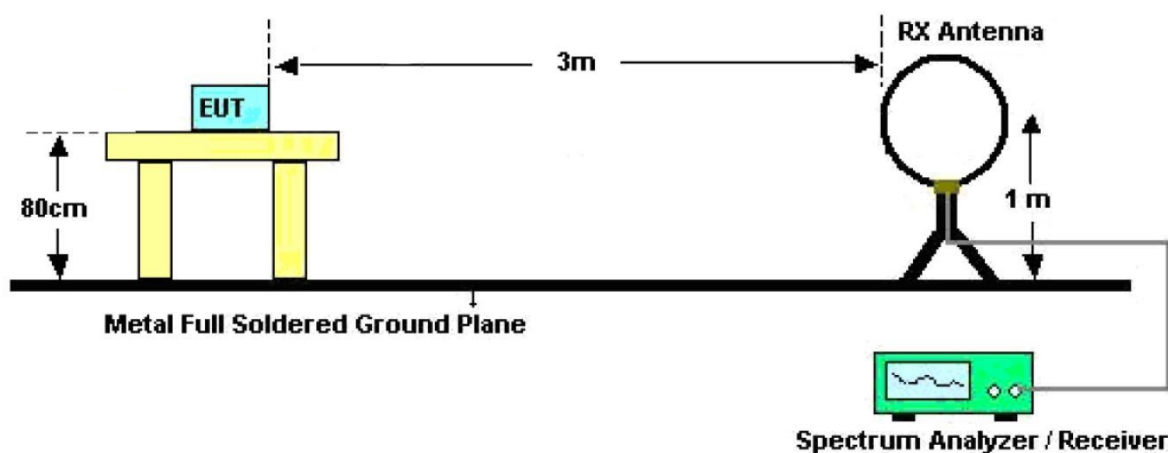


Figure 1. Below 30MHz

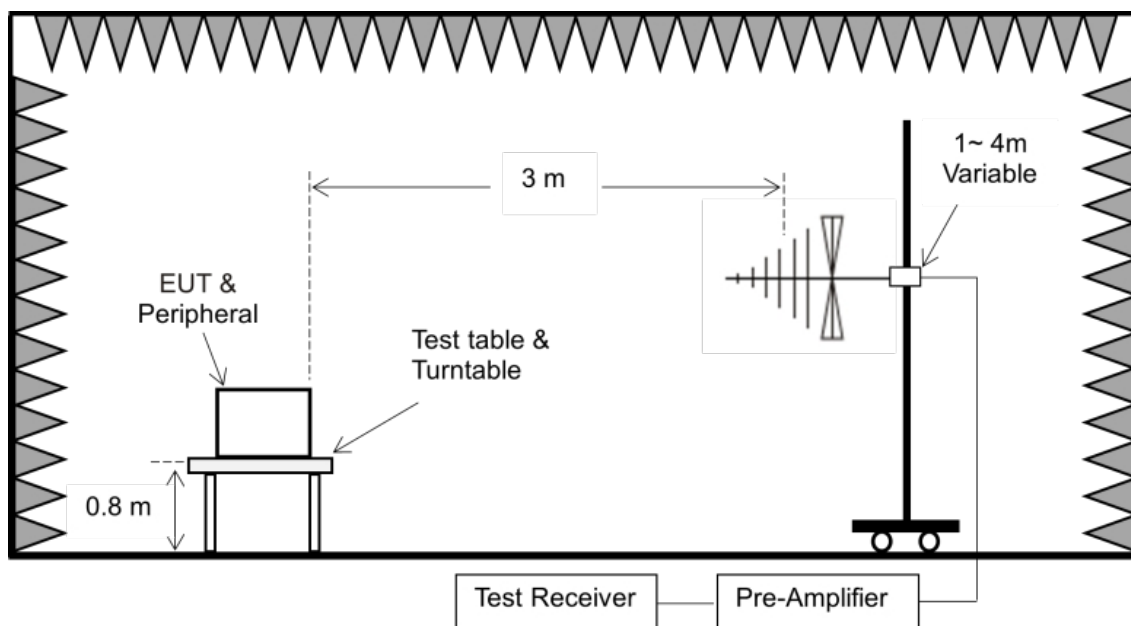


Figure 2. 30MHz to 1GHz

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

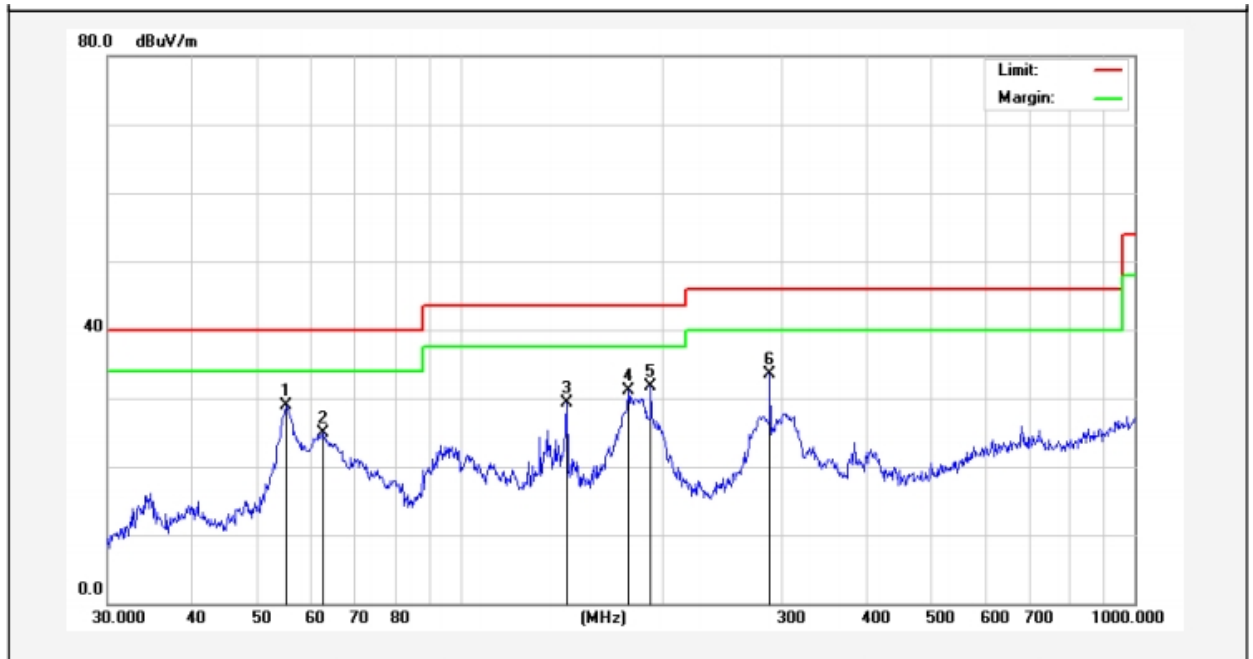
PASS

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

Please to see the following pages.

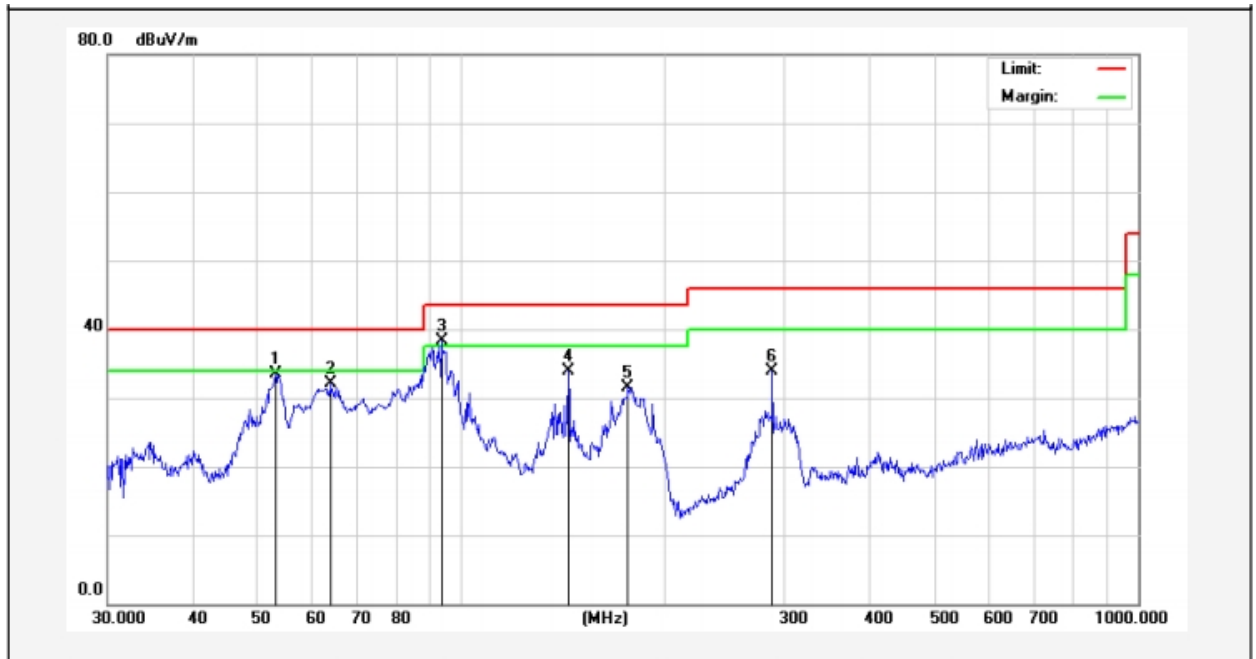
Test Results (Between 30MHz –1000 MHz)

Test Mode: TM1
Distance: 3m
Power Source: DC 5V from adapter input AC 120V/60Hz
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 25.3°C/54%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			Remark
1	55.2207	46.26	-17.34	28.92	40.00	-11.08	QP			
2	62.6507	43.62	-18.71	24.91	40.00	-15.09	QP			
3	143.8295	51.71	-22.39	29.32	43.50	-14.18	QP			
4	177.5092	52.02	-21.01	31.01	43.50	-12.49	QP			
5	191.7450	51.82	-20.20	31.62	43.50	-11.88	QP			
6	287.9904	50.13	-16.67	33.46	46.00	-12.54	QP			

Test Mode: TM1
Distance: 3m
Power Source: DC 5V from adapter input AC 120V/60Hz
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 25.3°C/54%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector			Remark
1	53.1313	50.58	-17.16	33.42	40.00	-6.58	QP			
2	63.9828	51.31	-19.22	32.09	40.00	-7.91	QP			
3	93.4402	57.32	-18.93	38.39	43.50	-5.11	QP			
4	143.8295	56.18	-22.33	33.85	43.50	-9.65	QP			
5	176.2686	52.35	-20.79	31.56	43.50	-11.94	QP			
6	287.9904	50.54	-16.67	33.87	46.00	-12.13	QP			

Remark:

Result(dBμV/m) = Reading(dBμV) + Factor(dB/m);

Over Limit(dB) = Result(dBμV/m) - Limit(dBμV/m)

5. Antenna Requirement

5.1. 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.

5.2. Antenna Connected Construction

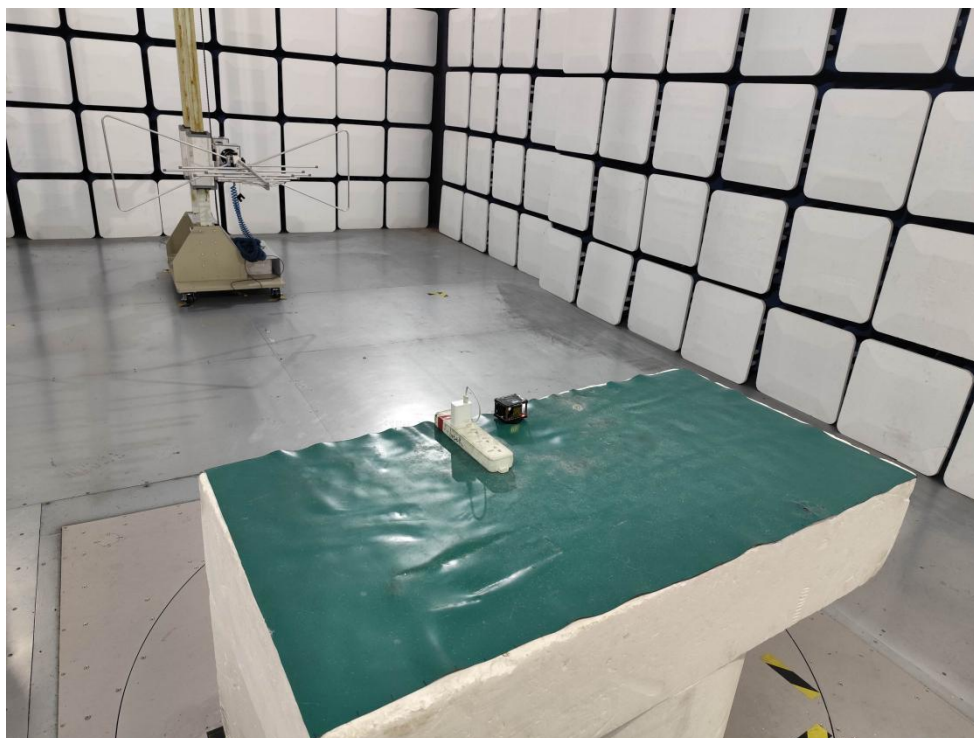
The antenna is a Inductive loop coil Antenna which permanently attached. It complies with the standard requirement.

APPENDIX I -- TEST SETUP PHOTOGRAPH

Conducted Emission at AC power line



Radiation Emission Test (30MHz~1000MHz)



APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to file APPENDIX II -- EXTERNAL PHOTOGRAPH

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to file APPENDIX III -- INTERNAL PHOTOGRAPH

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