

FCC TEST REPORT

For

Carfook (Shenzhen) Technology Co., Ltd.

Car Charger

Model No.: ZLPX-B

Prepared For : Carfook (Shenzhen) Technology Co., Ltd.
Address : NO 29, Shenzhu Road ,Henggang Street, Longgang District, Shenzhen,
China

Prepared By : Shenzhen Anbotech Compliance Laboratory Limited
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Report Number : SZAWW190111010-01
Date of Receipt : Jan. 11, 2019
Date of Test : Jan. 11~Feb. 22, 2019
Date of Report : Feb. 22, 2019

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TEST REPORT

Applicant : Carfook (Shenzhen) Technology Co., Ltd.
Manufacturer : Carfook (Shenzhen) Technology Co., Ltd.
Product Name : Car Charger
Model No. : ZLPX-B
Trade Mark : N.A.
Rating(s) : Input: 5V=== 2A/ 9V=== 1.67A
Output: 5W/ 7.5W/ 10W

Test Standard(s) : **FCC Part15 Subpart C 2018, Paragraph 15.209**

Test Method(s) : **ANSI C63.10: 2013**

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 Test

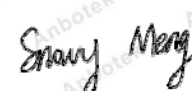
Jan. 11~Feb. 22, 2019

Prepared By




(Engineer / Dolly Mo)

Reviewer


(Supervisor / Snowy Meng)

Approved & Authorized Signer


(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	Carfook (Shenzhen) Technology Co., Ltd.
Address	:	NO 29, Shenzhu Road ,Henggang Street, Longgang District, Shenzhen, China
Manufacturer	:	Carfook (Shenzhen) Technology Co., Ltd.
Address	:	NO 29, Shenzhu Road ,Henggang Street, Longgang District, Shenzhen, China
Factory	:	Carfook (Shenzhen) Technology Co., Ltd.
Address	:	NO 29, Shenzhu Road ,Henggang Street, Longgang District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Car Charger	
Model No.	:	ZLPX-B	
Trade Mark	:	N.A.	
Test Power Supply	:	AC 240V, 60Hz for adapter/ AC 120V, 60Hz for adapter	
Test Sample No.	:	S1(Normal Sample), S2(Engineering Sample)	
Product Description	:	Operation Frequency:	110.1~175KHz
	:	Modulation Type:	MSK
	:	Antenna Type:	Inductive loop coil Antenna
	:	Antenna Gain(Peak):	0 dBi
Remark: 1) 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

Adapter	:	Model: A2013 Input: 100-240V~ 50-60Hz 0.7A Output: 3.6-6.5V=== 3A/ 6.5-9V=== 2A/ 9-12V=== 1.5A
Mobile phone	:	Samsung Galaxy S7

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.

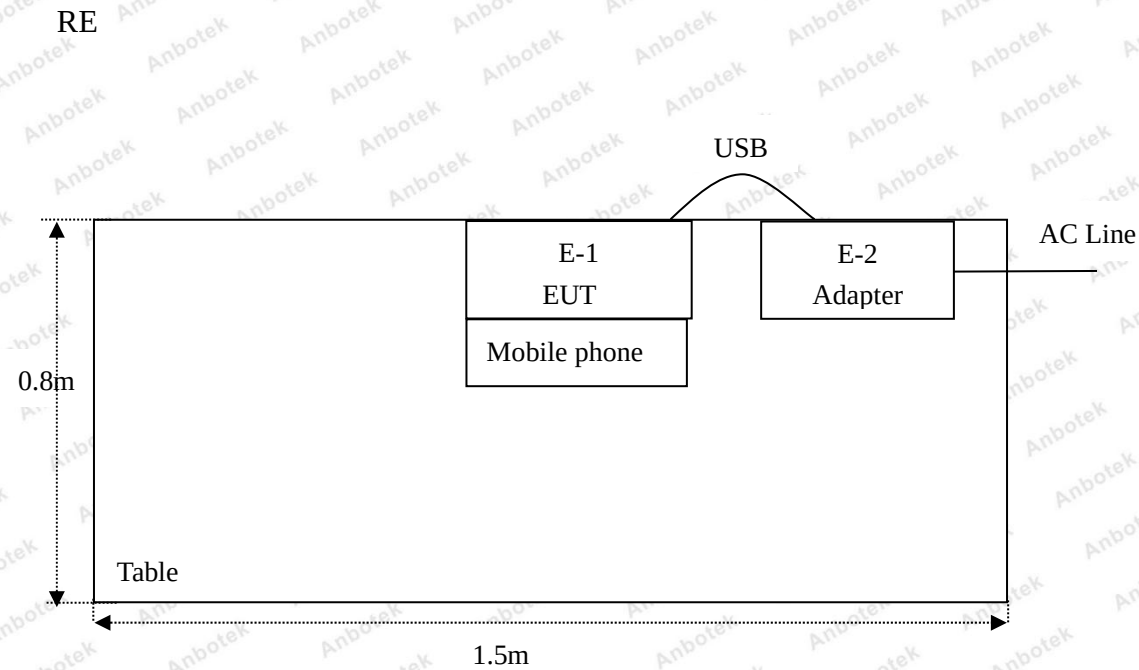
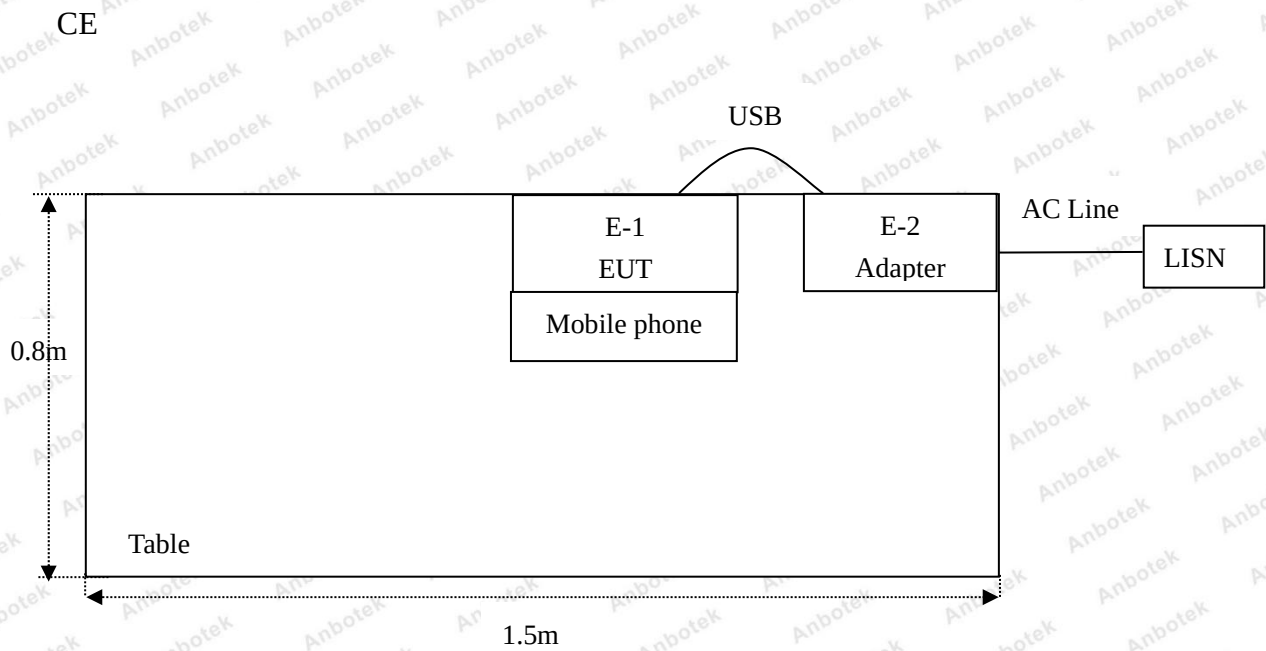
Remark: All the conditions have been tested. It is found that 10W is the worst mode, and the data in the report only reflects the worst mode.

Pretest Mode	Description
Mode 1	TX mode

For Conducted Emission	
Final Test Mode	Description
Mode 1	TX mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX 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	Nov. 05, 2018	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESPI3	101604	Nov. 05, 2018	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 05, 2018	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 05, 2018	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 05, 2018	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 19, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 19, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 20, 2018	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Nov. 05, 2018	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 05, 2018	1 Year
14.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 05, 2018	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 05, 2018	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 05, 2018	1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 05, 2018	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Apr. 02, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	Nov. 01, 2018	1 Year

1.7. Description of Test Facility

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

FCC-Registration No.: 184111

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. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

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-1, June 13, 2016.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

2. Summary of Test Results

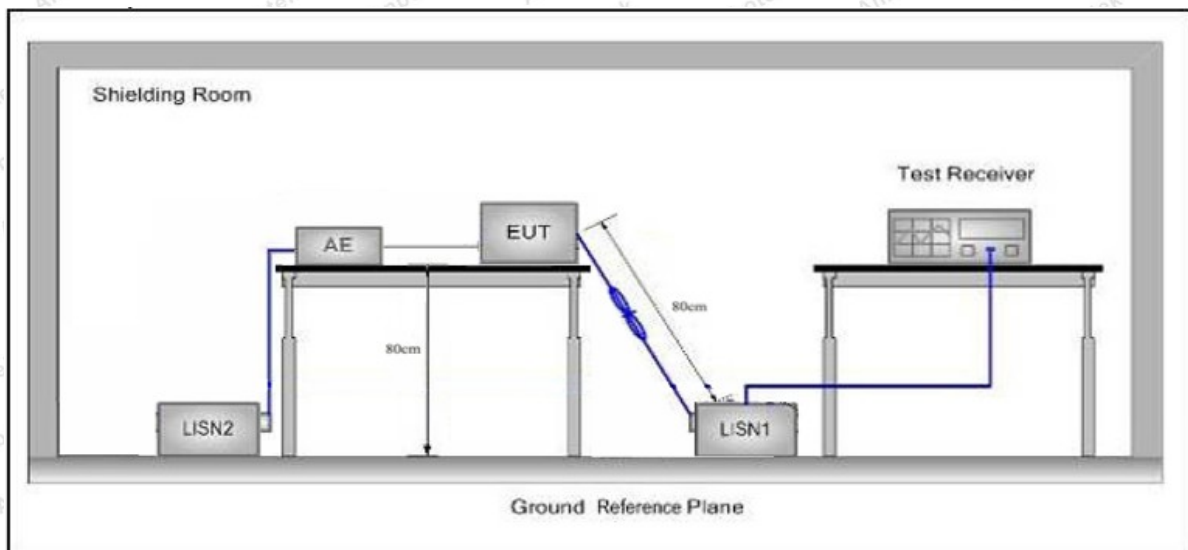
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

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 C63.10-2013 on Conducted Emission Measurement.

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

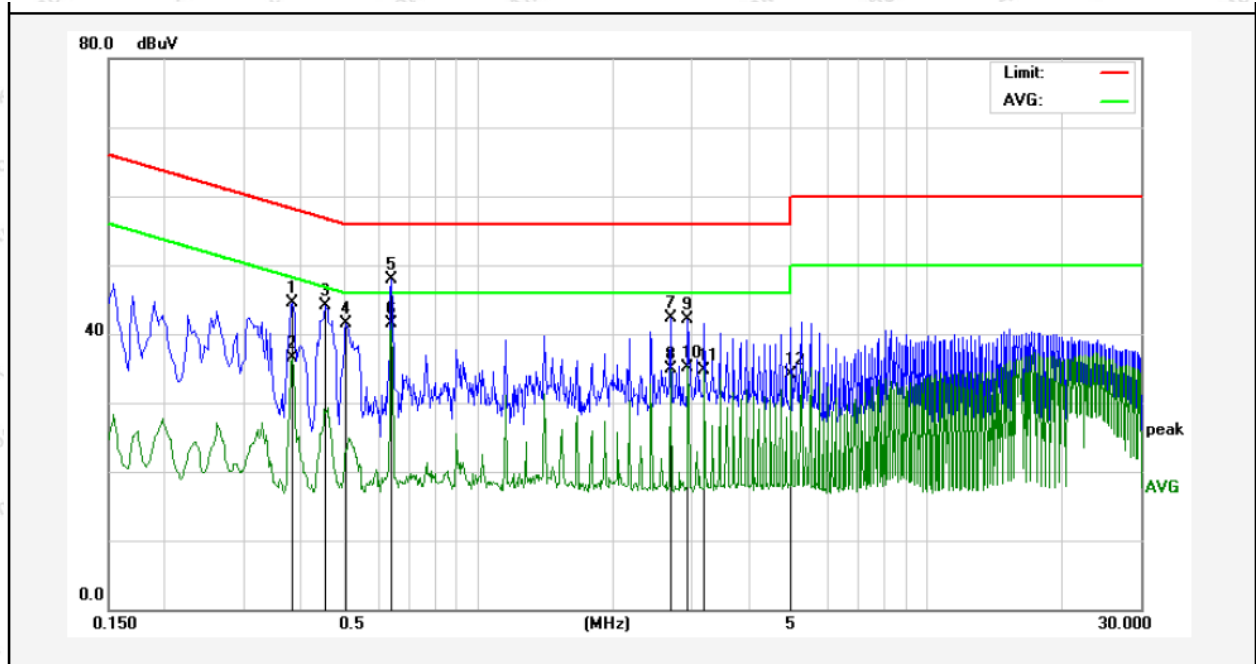
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

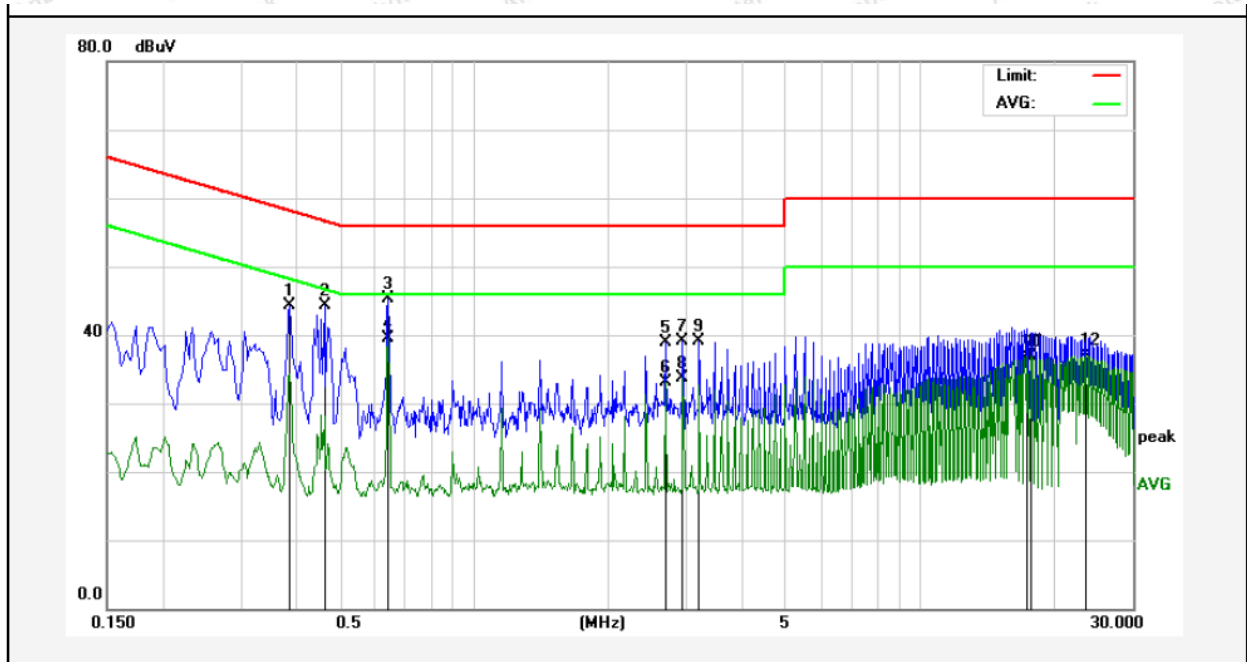
Test Site: 1# Shielded Room
Operating Condition: TX mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 24.3°C Hum.: 60%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3860	24.55	19.93	44.48	58.15	-13.67	QP	
2	0.3860	16.60	19.93	36.53	48.15	-11.62	AVG	
3	0.4580	24.10	19.96	44.06	56.73	-12.67	QP	
4	0.5100	21.56	19.98	41.54	56.00	-14.46	QP	
5	0.6419	27.82	20.02	47.84	56.00	-8.16	QP	
6	0.6419	21.47	20.02	41.49	46.00	-4.51	AVG	
7	2.6900	22.10	20.15	42.25	56.00	-13.75	QP	
8	2.6900	14.67	20.15	34.82	46.00	-11.18	AVG	
9	2.9460	21.91	20.16	42.07	56.00	-13.93	QP	
10	2.9460	15.04	20.16	35.20	46.00	-10.80	AVG	
11	3.2020	14.57	20.16	34.73	46.00	-11.27	AVG	
12	4.9940	13.92	20.21	34.13	46.00	-11.87	AVG	

Conducted Emission Test Data

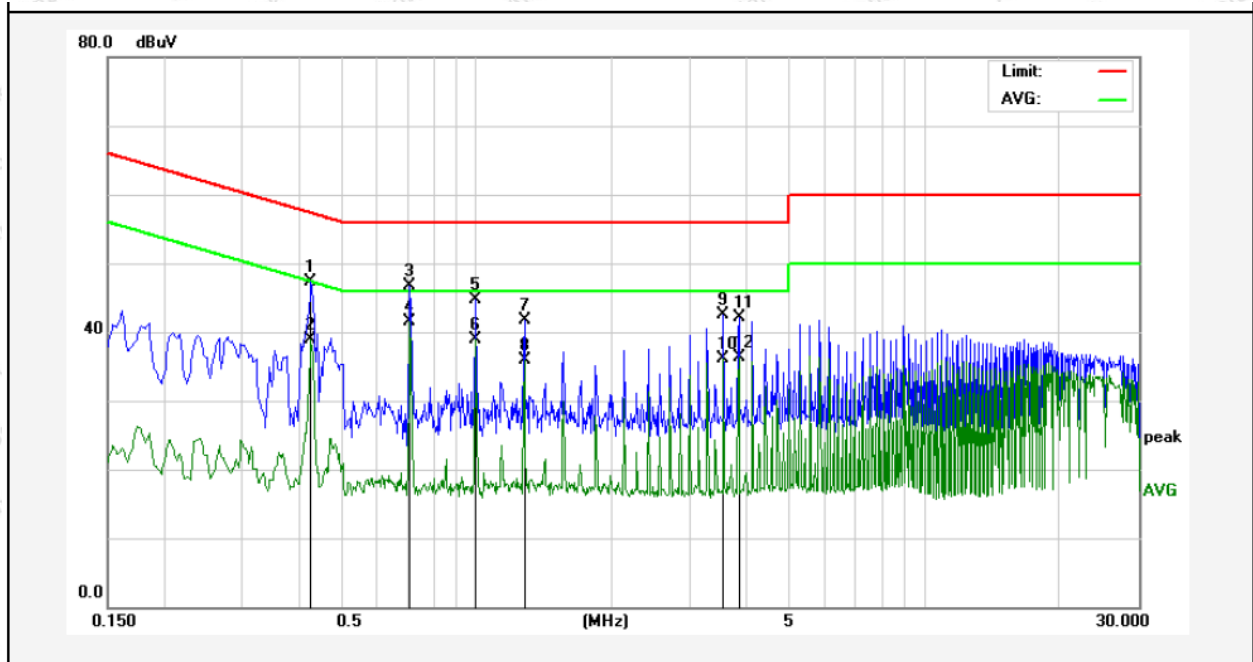
Test Site: 1# Shielded Room
Operating Condition: TX mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.3°C Hum.: 60%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3860	24.31	19.93	44.24	58.15	-13.91	QP	
2	0.4620	24.27	19.96	44.23	56.66	-12.43	QP	
3	0.6419	25.37	20.02	45.39	56.00	-10.61	QP	
4	0.6419	19.42	20.02	39.44	46.00	-6.56	AVG	
5	2.6900	18.82	20.15	38.97	56.00	-17.03	QP	
6	2.6900	12.92	20.15	33.07	46.00	-12.93	AVG	
7	2.9460	18.89	20.16	39.05	56.00	-16.95	QP	
8	2.9460	13.53	20.16	33.69	46.00	-12.31	AVG	
9	3.2020	19.01	20.16	39.17	56.00	-16.83	QP	
10	17.4180	16.70	20.30	37.00	50.00	-13.00	AVG	
11	17.6740	16.52	20.30	36.82	50.00	-13.18	AVG	
12	23.5660	16.74	20.30	37.04	50.00	-12.96	AVG	

Conducted Emission Test Data

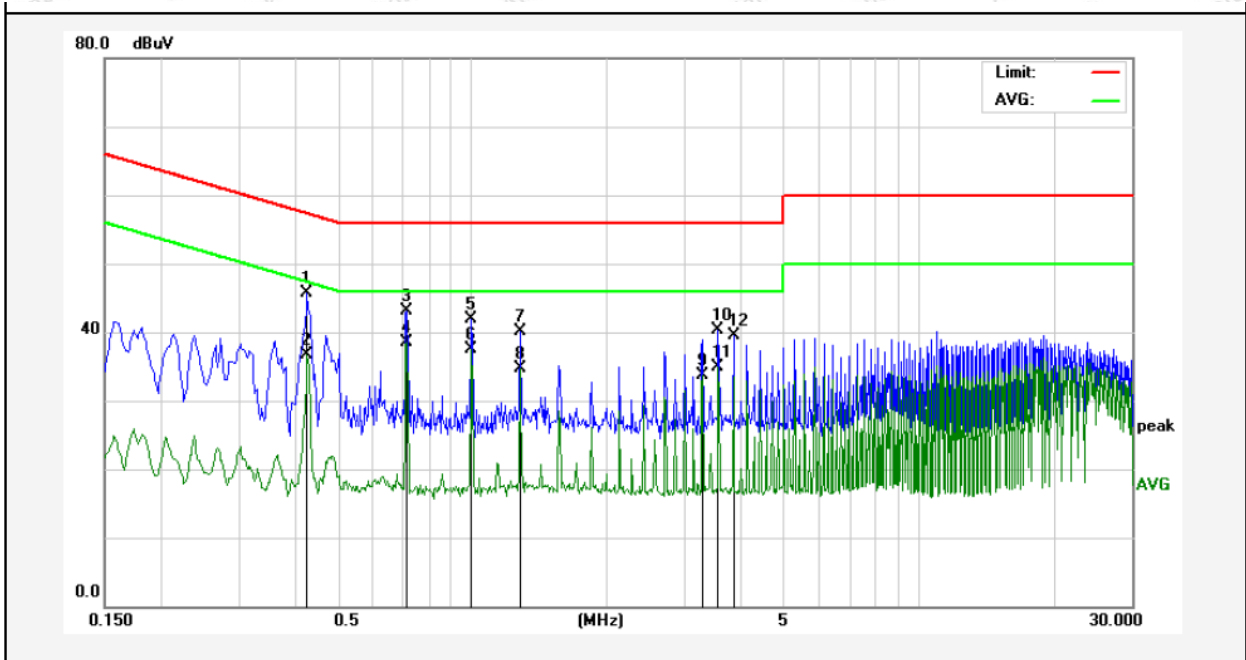
Test Site: 1# Shielded Room
Operating Condition: TX mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 24.3°C Hum.: 60%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.4260	27.43	19.95	47.38	57.33	-9.95	QP	
2	0.4260	18.97	19.95	38.92	47.33	-8.41	AVG	
3	0.7100	26.66	20.04	46.70	56.00	-9.30	QP	
4	0.7100	21.45	20.04	41.49	46.00	-4.51	AVG	
5	0.9940	24.65	20.12	44.77	56.00	-11.23	QP	
6	0.9940	18.74	20.12	38.86	46.00	-7.14	AVG	
7	1.2780	21.53	20.13	41.66	56.00	-14.34	QP	
8	1.2780	15.77	20.13	35.90	46.00	-10.10	AVG	
9	3.5580	22.28	20.17	42.45	56.00	-13.55	QP	
10	3.5580	15.97	20.17	36.14	46.00	-9.86	AVG	
11	3.8420	21.96	20.18	42.14	56.00	-13.86	QP	
12	3.8420	16.10	20.18	36.28	46.00	-9.72	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: TX mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.3°C Hum.: 60%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.4260	25.85	19.95	45.80	57.33	-11.53	QP	
2	0.4260	16.72	19.95	36.67	47.33	-10.66	AVG	
3	0.7140	22.99	20.04	43.03	56.00	-12.97	QP	
4	0.7140	18.56	20.04	38.60	46.00	-7.40	AVG	
5	0.9980	21.85	20.12	41.97	56.00	-14.03	QP	
6	0.9980	17.47	20.12	37.59	46.00	-8.41	AVG	
7	1.2820	19.91	20.13	40.04	56.00	-15.96	QP	
8	1.2820	14.56	20.13	34.69	46.00	-11.31	AVG	
9	3.2780	13.54	20.17	33.71	46.00	-12.29	AVG	
10	3.5620	20.23	20.17	40.40	56.00	-15.60	QP	
11	3.5620	14.66	20.17	34.83	46.00	-11.17	AVG	
12	3.8460	19.41	20.18	39.59	56.00	-16.41	QP	

4. Radiation Spurious Emission and Band Edge

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

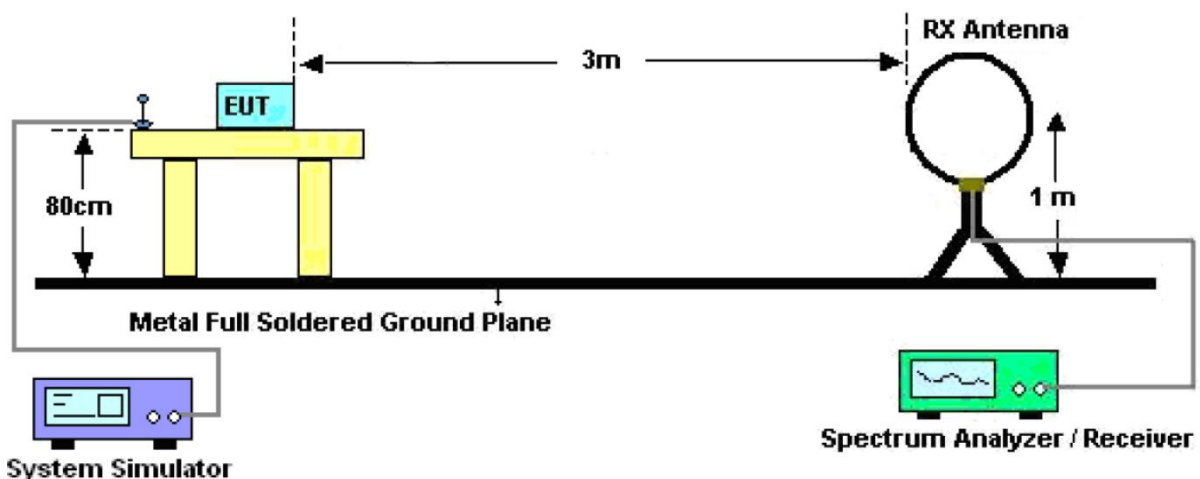


Figure 1. Below 30MHz

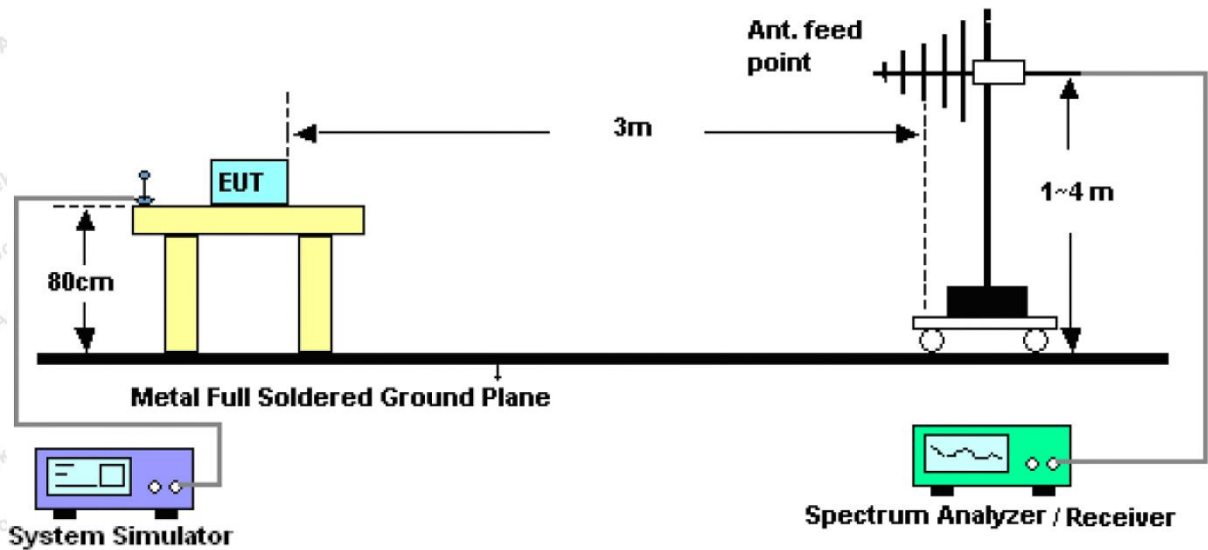


Figure 2. 30MHz to 1GHz

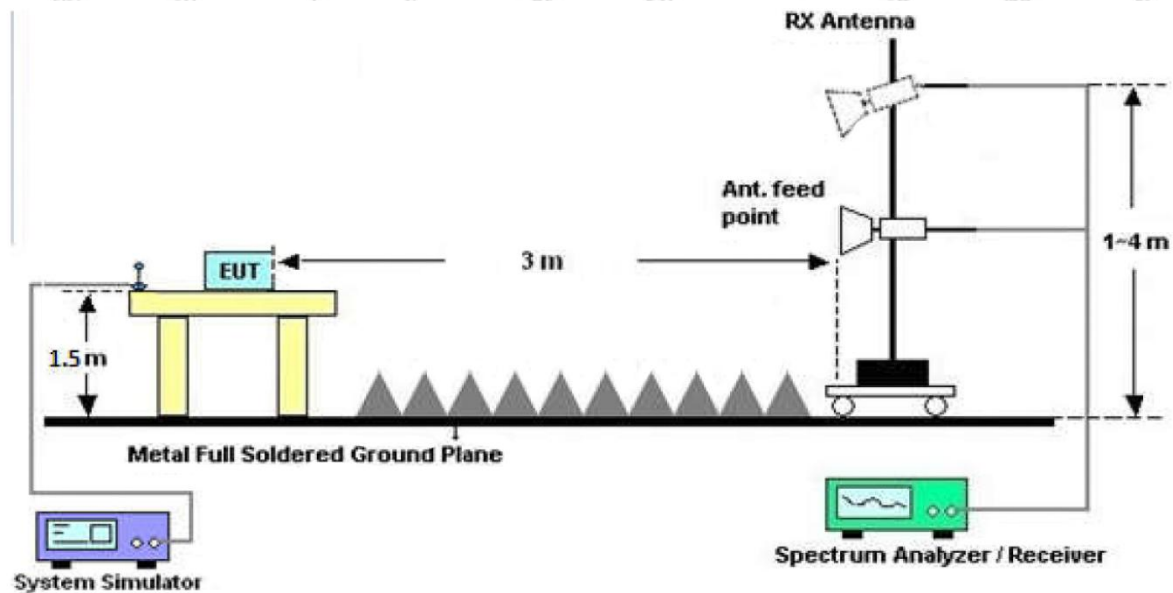


Figure 3. Above 1 GHz

4.3. Test Procedure

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

For above 1GHz: The EUT is placed on a turntable, which is 1.5m 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.

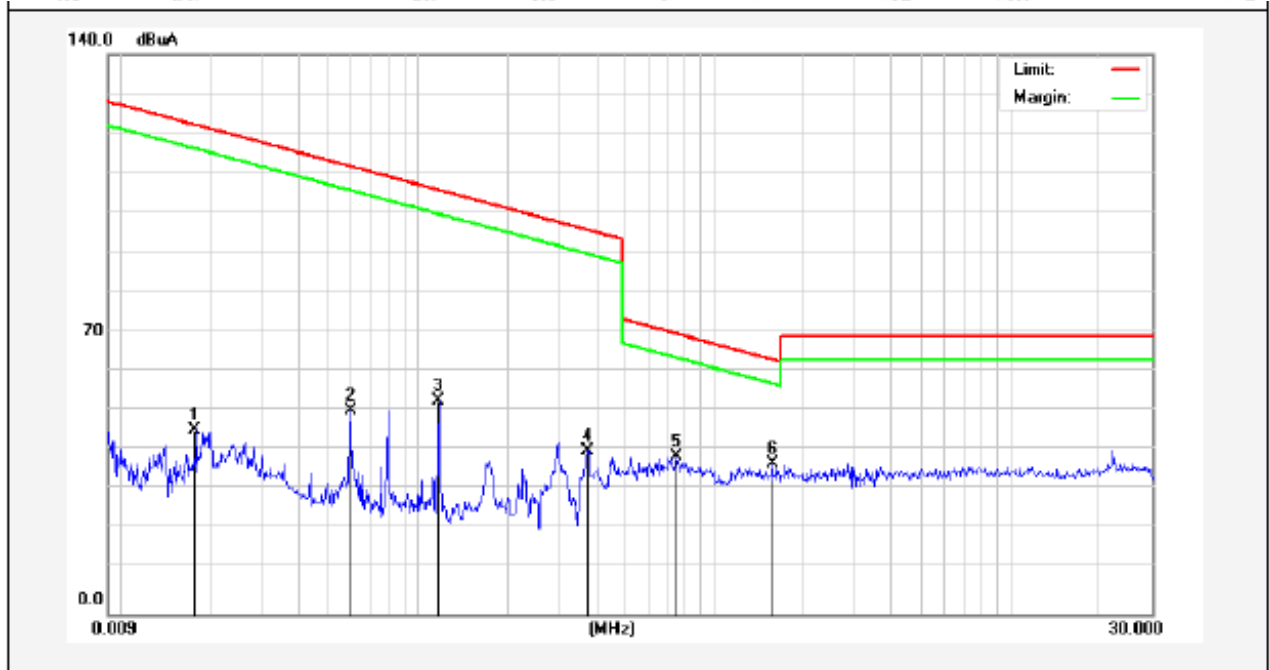
4.4. Test Data

PASS

Test Results

(Between 9KHz – 30MHz)

Job No.:	SZAWW19011010-01			
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter	
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.6°C/58%RH	
Test Mode:	Mode 1	Distance:	3m	

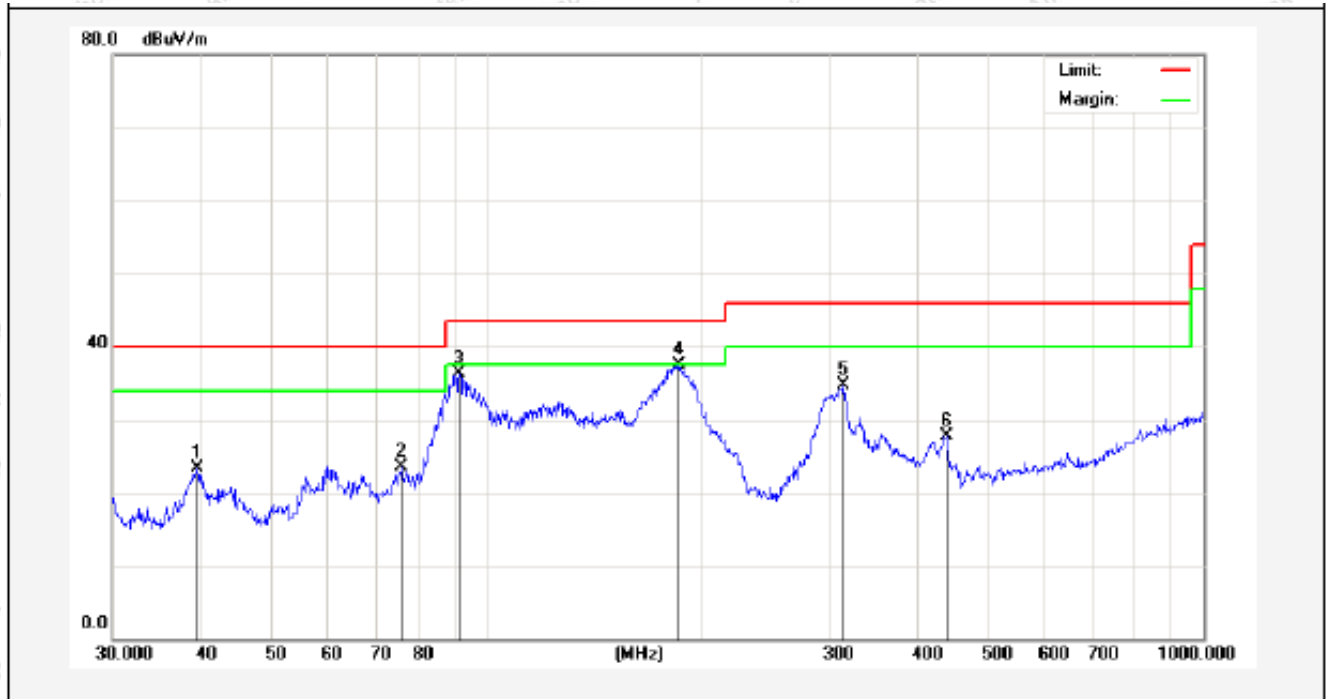


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0177	46.41	19.28	2.53	0	68.22	142.48	-74.26	Peak	100
0.0177	24.16	19.28	2.53	0	45.97	122.48	-76.51	AV	100
0.0592	50.79	19.32	2.55	0	72.66	132.05	-59.39	Peak	26
0.0592	29.08	19.32	2.55	0	50.95	112.05	-61.10	AV	26
0.1184	46.76	19.89	2.56	0	69.21	126.07	-56.86	Peak	110
0.1184	30.64	20.02	2.56	0	53.22	106.07	-52.85	AV	110
0.3738	42.52	19.89	2.57	0	64.98	116.14	-51.16	Peak	98
0.3738	18.32	20.02	2.57	0	40.91	96.14	-55.23	AV	98
0.7459	17.05	19.89	2.59	0	39.53	70.15	-30.62	QP	180
1.5700	15.09	20.02	2.60	0	37.71	63.69	-25.98	QP	90

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.

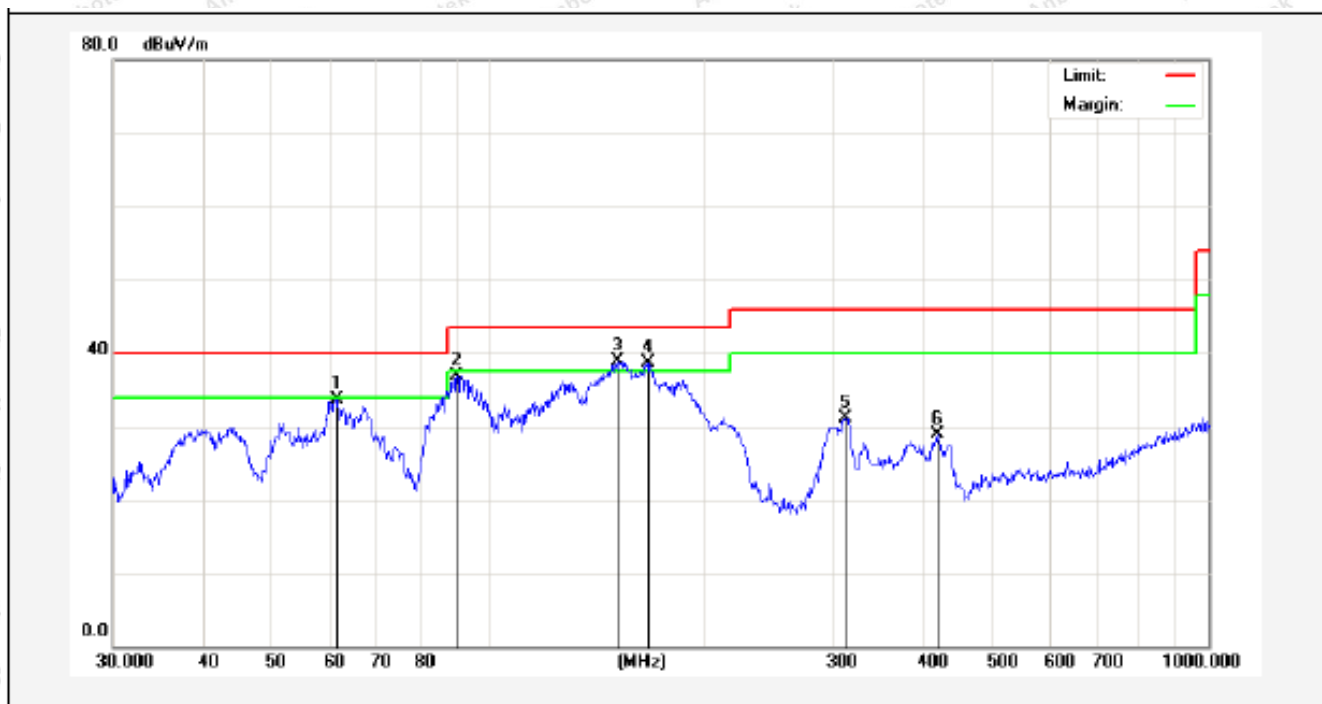
(Between 30MHz ~1000 MHz)

Job No.:	SZAWW19011010-01	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.6°C/58%RH
Test Mode:	Mode 1	Distance:	3m



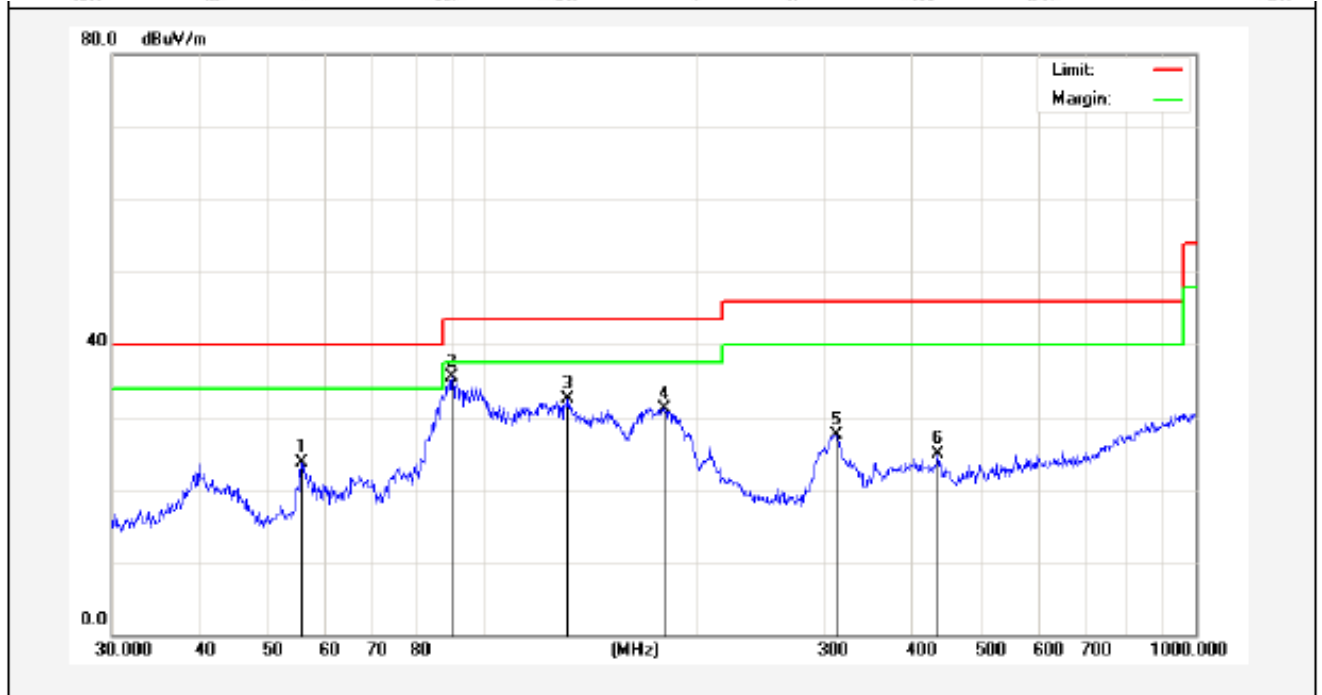
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.4371	37.99	-14.67	23.32	40.00	-16.68	QP	300	0	
2	75.9773	46.41	-22.83	23.58	40.00	-16.42	QP	300	112	
3	91.4949	59.92	-23.66	36.26	43.50	-7.24	QP	300	156	
4	185.1379	58.38	-20.88	37.50	43.50	-6.00	QP	300	169	
5	314.3765	51.44	-16.79	34.65	46.00	-11.35	QP	300	223	
6	437.1199	39.99	-12.23	27.76	46.00	-18.24	QP	300	360	

Job No.:	SZAWW190111010-01	Polarization:	Vertical
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.6°C/58%RH
Test Mode:	Mode 1	Distance:	3m



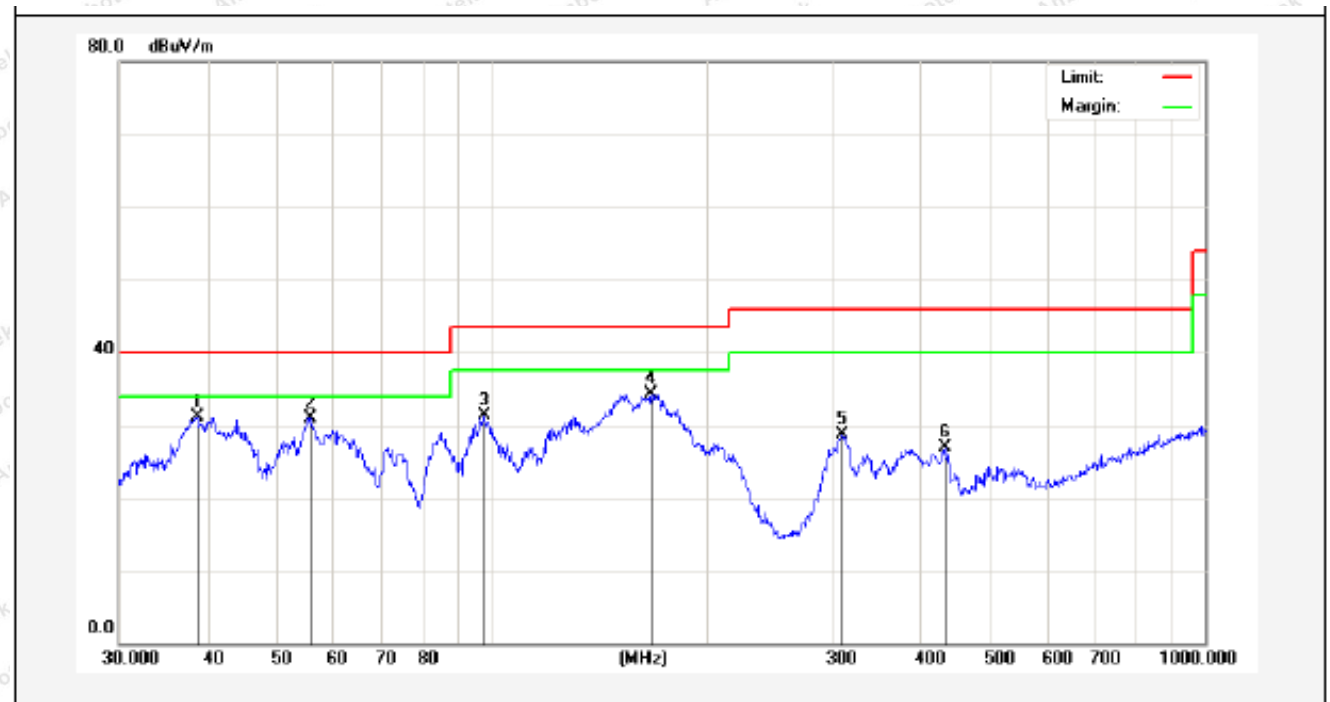
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	61.3463	51.28	-17.49	33.79	40.00	-6.21	QP	300	0	
2	90.2205	55.04	-18.19	36.85	43.50	-6.65	QP	300	123	
3	151.0666	57.27	-18.30	38.97	43.50	-4.53	QP	300	177	
4	166.0680	56.32	-17.68	38.64	43.50	-4.86	QP	300	225	
5	313.2760	46.38	-15.27	31.11	46.00	-14.89	QP	300	269	
6	419.1081	40.25	-11.30	28.95	46.00	-17.05	QP	300	360	

Job No.:	SZAWW19011010-01	Polarization:	Horizontal
Standard:	FCC PART15 C _3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.6°C/58%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	55.4147	41.46	-17.75	23.71	40.00	-16.29	QP	300	0	
2	90.2205	59.66	-24.19	35.47	43.50	-8.03	QP	300	114	
3	131.2965	55.14	-22.68	32.46	43.50	-11.04	QP	300	123	
4	179.3863	51.97	-20.83	31.14	43.50	-12.36	QP	300	167	
5	313.2760	44.53	-16.94	27.59	46.00	-18.41	QP	300	223	
6	434.0651	37.15	-12.27	24.88	46.00	-21.12	QP	300	360	

Job No.:	SZAWW19011010-01	Polarization:	Vertical
Standard:	FCC PART15 C_3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.6°C/58%RH
Test Mode:	Mode 1	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	38.6160	45.29	-14.12	31.17	40.00	-8.83	QP	300	0	
2	55.8047	47.67	-16.77	30.90	40.00	-9.10	QP	300	123	
3	97.4560	47.22	-15.99	31.23	43.50	-12.27	QP	300	169	
4	167.2368	51.87	-17.64	34.23	43.50	-9.27	QP	300	223	
5	309.9977	43.99	-15.37	28.62	46.00	-17.38	QP	300	279	
6	431.0316	38.20	-11.25	26.95	46.00	-19.05	QP	300	360	

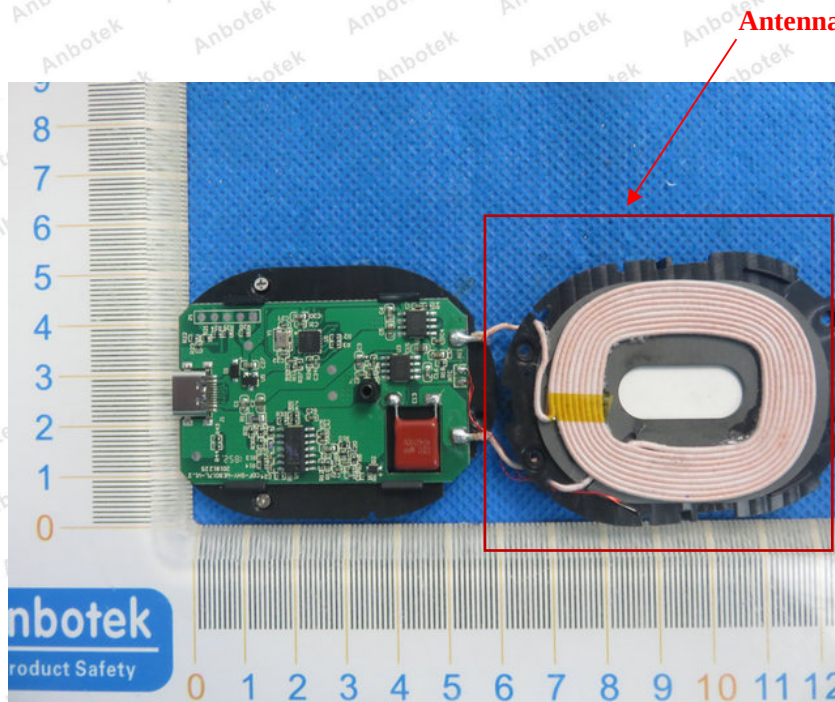
5. Antenna Requirement

5.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 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

5.2. Antenna Connected Construction

The antenna is a Inductive loop coil Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

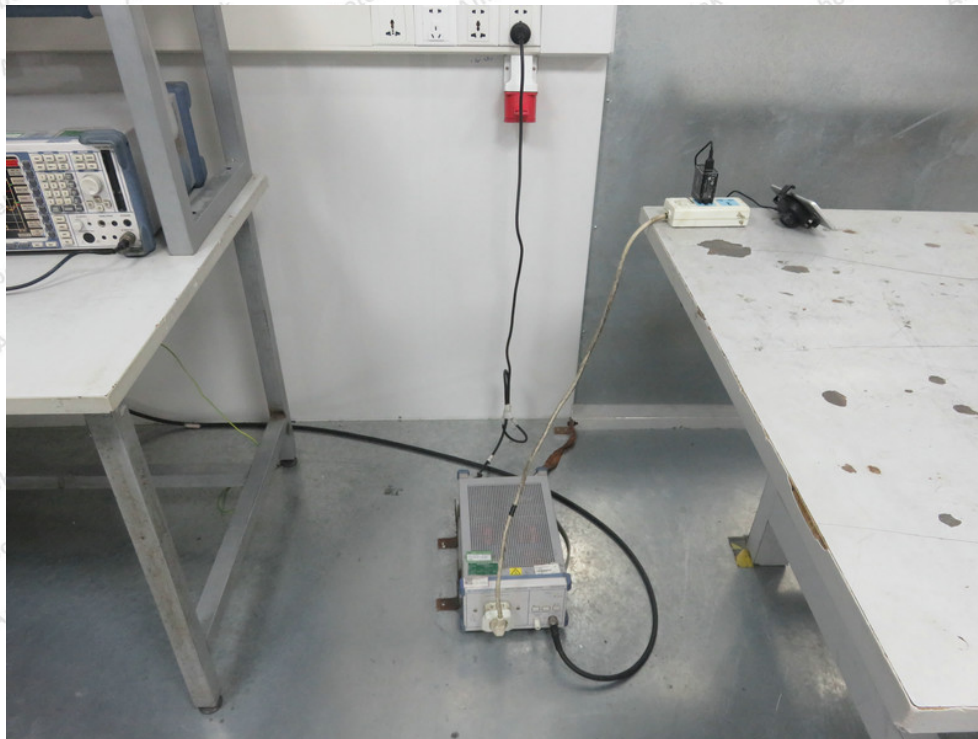
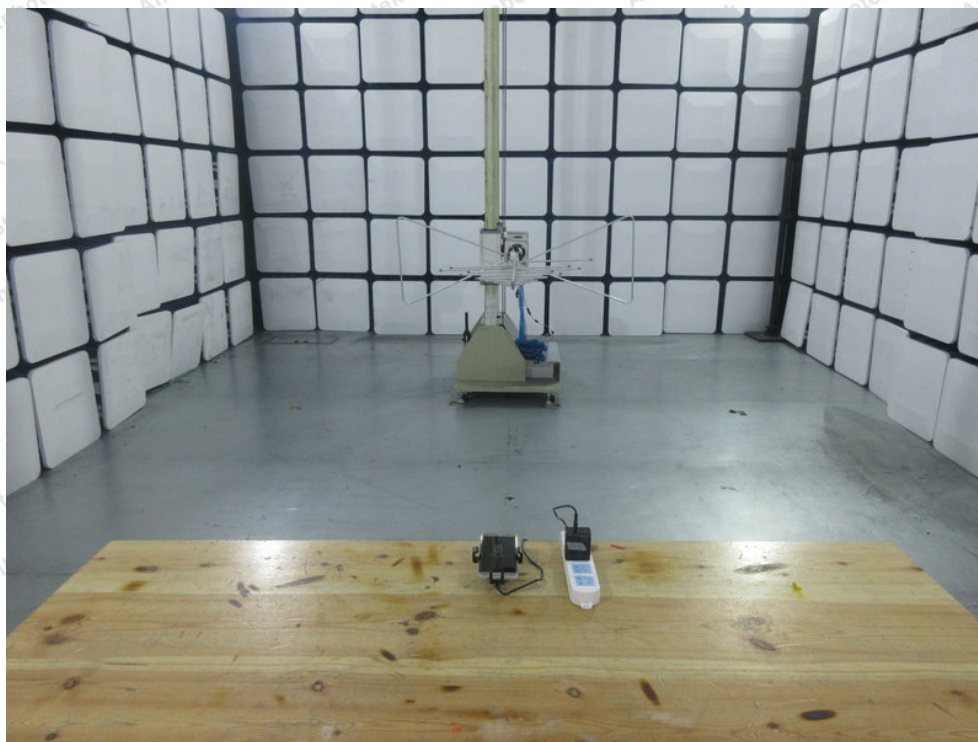
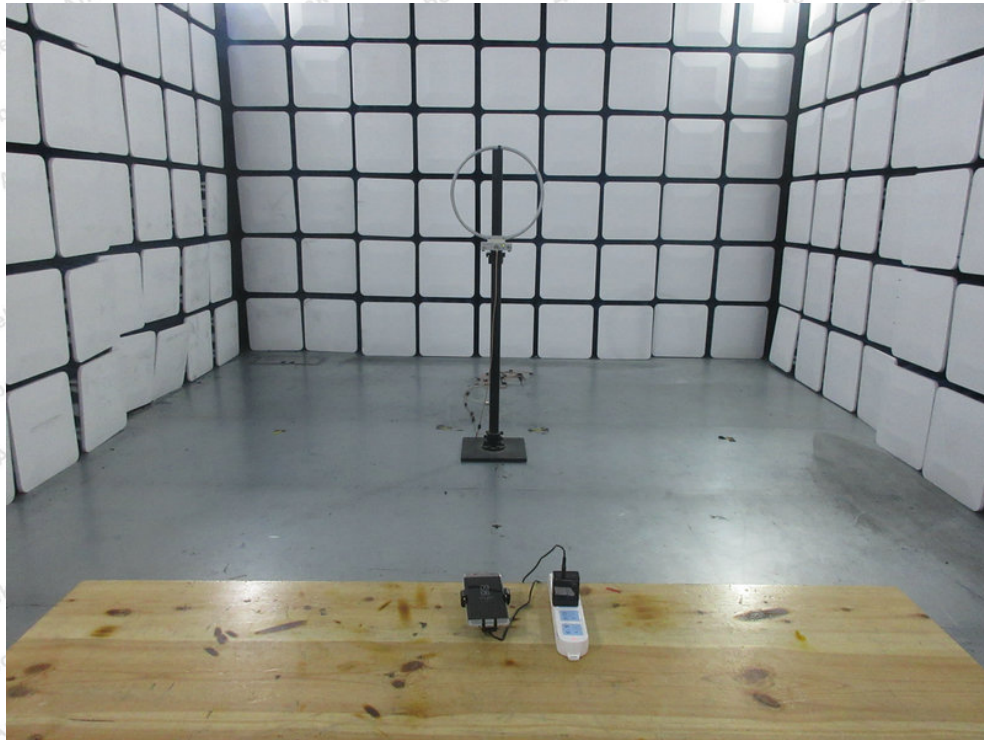


Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH

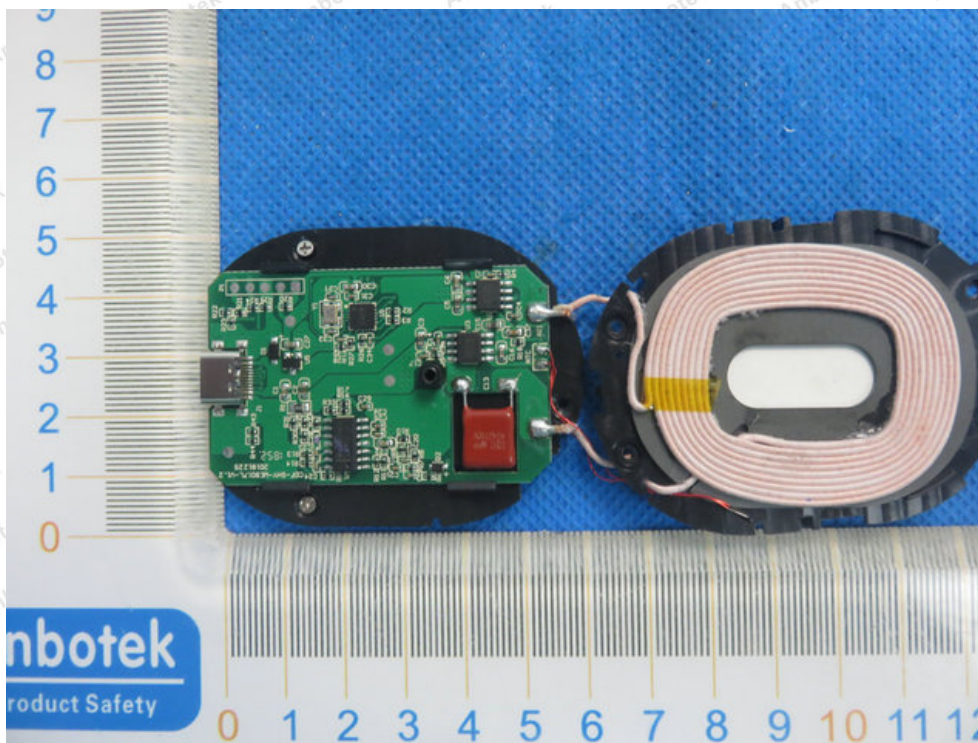


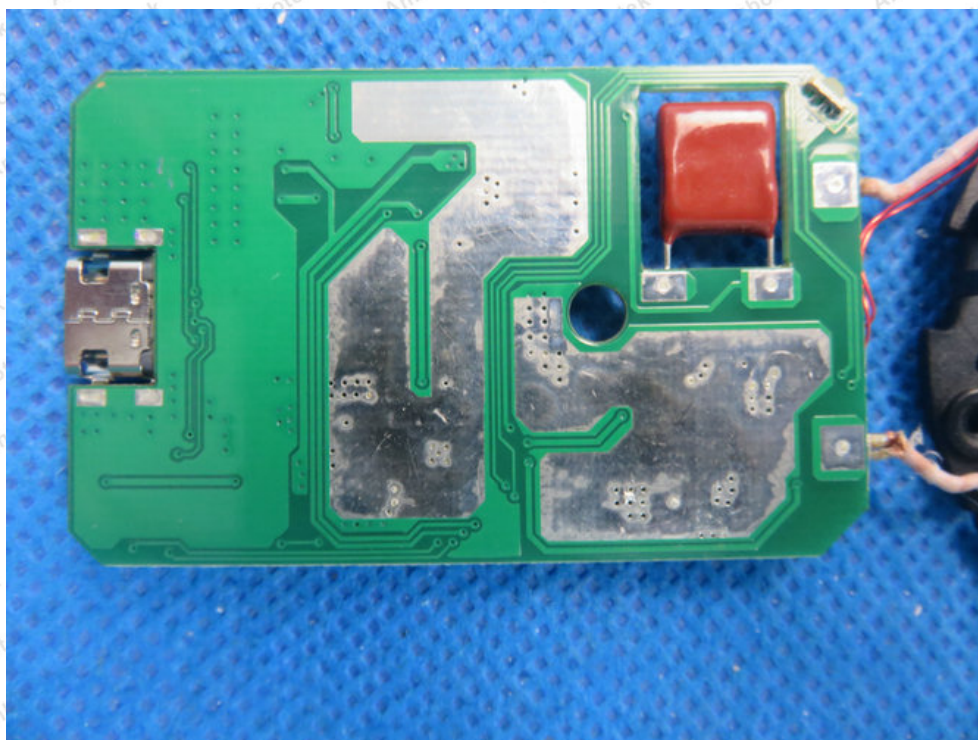
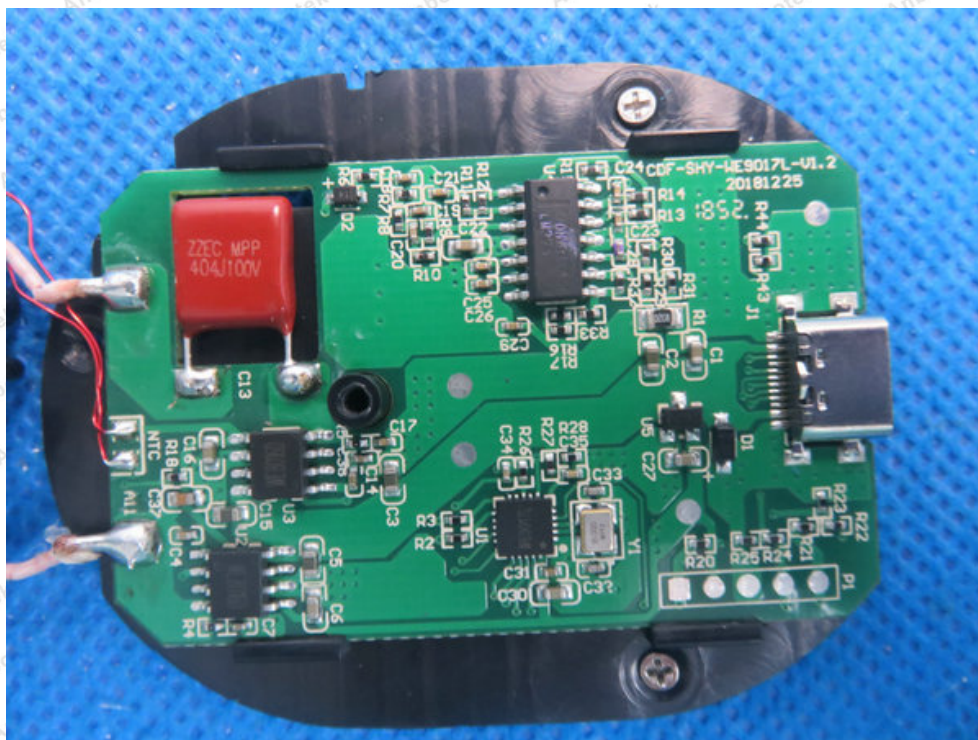






APPENDIX III -- INTERNAL PHOTOGRAPH





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