

FCC TEST REPORT

For

Hamedata Technology Co., Limited

Power Bank

Model No.: P64

Prepared For : Hamedata Technology Co., Limited
Address : 1st Zone, 3F, Plant#1, Huahan Industrial Park, No.16, Jinniu West Rd.,
Pingshan New District, Shenzhen, China 518118

Prepared By : Shenzhen Anbotech Compliance Laboratory Limited
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Report Number : SZAWW180523002-01

Date of Test : May 23~Jun. 28, 2018

Date of Report : Jun. 28, 2018

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TEST REPORT

Applicant : Hamedata Technology Co., Limited
Manufacturer : Hamedata Technology Co., Limited
Product Name : Power Bank
Model No. : P64
Trade Mark : N.A.
Rating(s) : Input: DC 5V, 2A(with DC 3.7V, 10000mAh Battery inside)
USB output : DC 5V, 2.1A max
Wireless output: DC 5V, 1A

Test Standard(s) : FCC Part15 Subpart C 2017, Paragraph 15.209

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

The device described above is tested by Shenzhen Anbotech 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 Anbotech 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 Anbotech Compliance Laboratory Limited.

Date of Test

May 23~Jun. 28, 2018

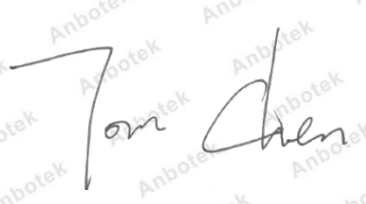
Prepared by


(Engineer / Oliay Yang)

Reviewer


(Supervisor / Calvin Liu)

Approved & Authorized Signer


(Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Hamedata Technology Co., Limited
Address	:	1st Zone, 3F, Plant#1, Huahan Industrial Park, No.16, Jinniu West Rd., Pingshan New District, Shenzhen, China 518118
Manufacturer	:	Hamedata Technology Co., Limited
Address	:	1st Zone, 3F, Plant#1, Huahan Industrial Park, No.16, Jinniu West Rd., Pingshan New District, Shenzhen, China 518118

1.2. Description of Device (EUT)

Product Name	:	Power Bank
Model No.	:	P64
Trade Mark	:	N.A.
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter/ DC 3.7V battery inside
Product Description	Operation Frequency:	110-205KHz
	Number of Channel:	20 Channels
	Modulation Type:	FSK
	Antenna Type:	Loop 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	:	Manufacturer: Samsung M/N: ETA-U90CBC S/N: RT6FB17ZS/B-E Input: 100-240V~ 50-60Hz, 0.35A Output: DC 5V, 2A
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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 Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH20
Mode 4	Keeping TX+Charging mode

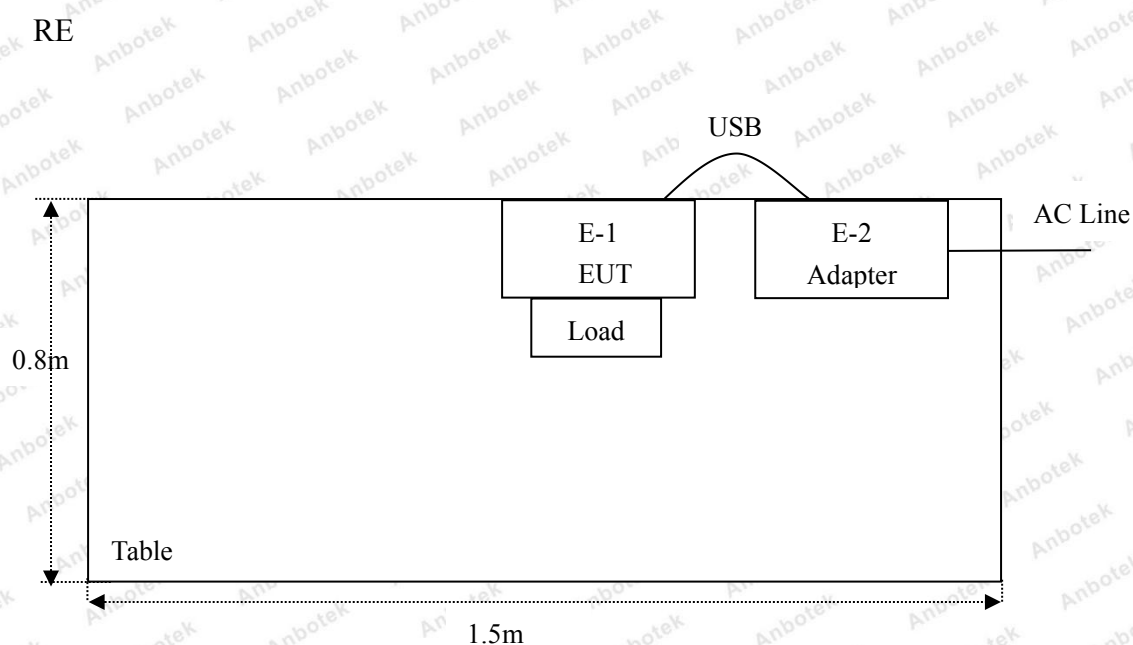
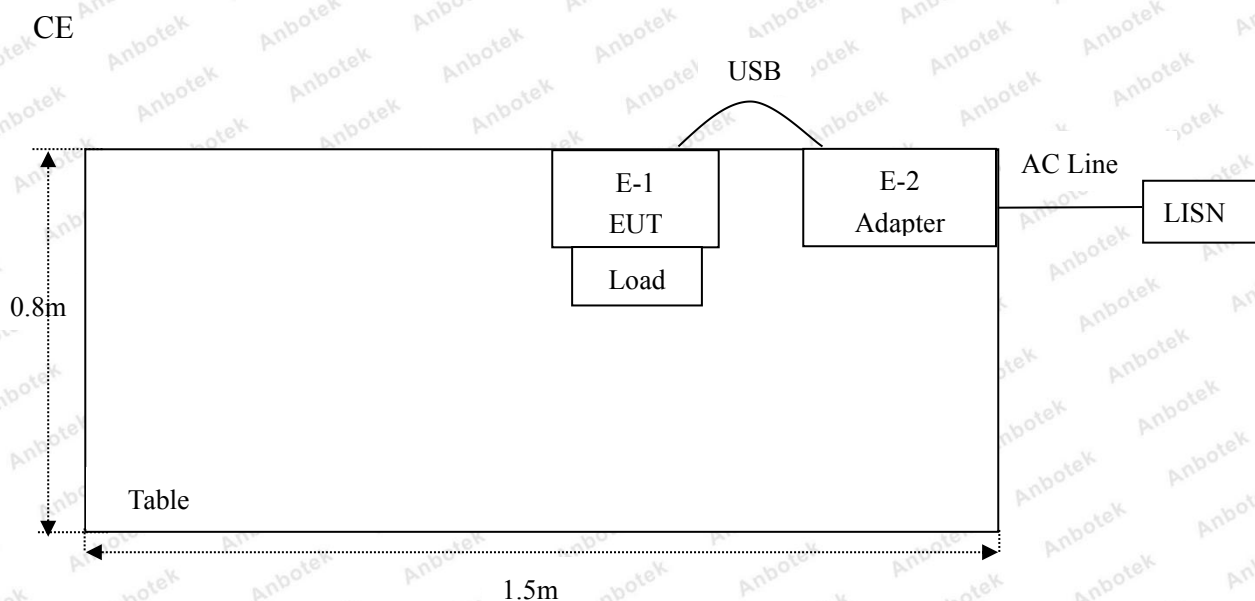
For Conducted Emission	
Final Test Mode	Description
Mode 4	Keeping TX+Charging mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH20
Mode 4	Keeping TX+Charging mode

1.5. List of channels

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	0.110	6	0.135	11	0.160	16	0.185
2	0.115	7	0.140	12	0.165	17	0.190
3	0.120	8	0.145	13	0.170	18	0.195
4	0.125	9	0.150	14	0.175	19	0.200
5	0.130	10	0.155	15	0.180	20	0.205

1.6. Description Of Test Setup



1.7. 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. 17, 2017	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Nov. 17, 2017	1 Year
4.	Spectrum Analysis	Agilent	E4407B	US39390582	Nov. 17, 2017	1 Year
5.	Spectrum Analysis	Agilent	N9038A	MY53227295	Nov. 17, 2017	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30D	KD17503	Nov. 17, 2017	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Nov. 17, 2017	1 Year
8.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 20, 2017	1 Year
9.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 20, 2017	1 Year
10.	Loop Antenna	Schwarzbeck	HFH2-Z2	100047	Nov. 17, 2017	1 Year
11.	Horn Antenna	Schwarzbeck	BBHA9170	9170-375	Nov. 17, 2017	1 Year
12.	Pre-amplifier	SONOMA	310N	186860	Nov. 17, 2017	1 Year
13.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
14.	RF Test Control System	YIHENG	YH3000	2017430	Nov. 18, 2017	1 Year
15.	Power Sensor	DAER	RPR3006W	15I00041SN045	Nov. 17, 2017	1 Year
16.	Power Sensor	DAER	RPR3006W	15I00041SN046	Nov. 17, 2017	1 Year
17.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Nov. 18, 2017	1 Year
18.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Nov. 18, 2017	1 Year
19.	Signal Generator	Agilent	E4421B	MY41000743	Nov. 18, 2017	1 Year
20.	DC Power Supply	LW	TPR-6410D	349315	Nov. 01, 2017	1 Year
21.	Constant Temperature Humidity Chamber	Sertep	ZJ-HWHS80B	ZJ-17042804	Nov. 01, 2017	1 Year

1.8. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
		Ur = 3.8 dB (Vertical)
Conduction Uncertainty	:	Uc = 3.4 dB

1.9. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotech 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 Anbotech 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

All Emissions tests were performed at Shenzhen Anbotech Compliance Laboratory Limited. at 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

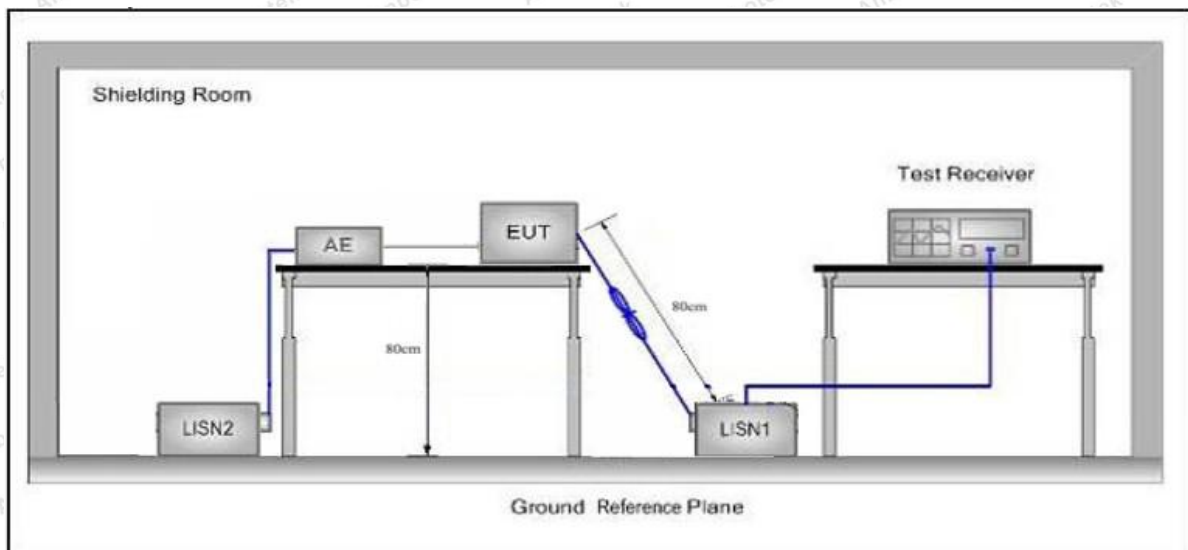
3. Conducted Emission Test

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.

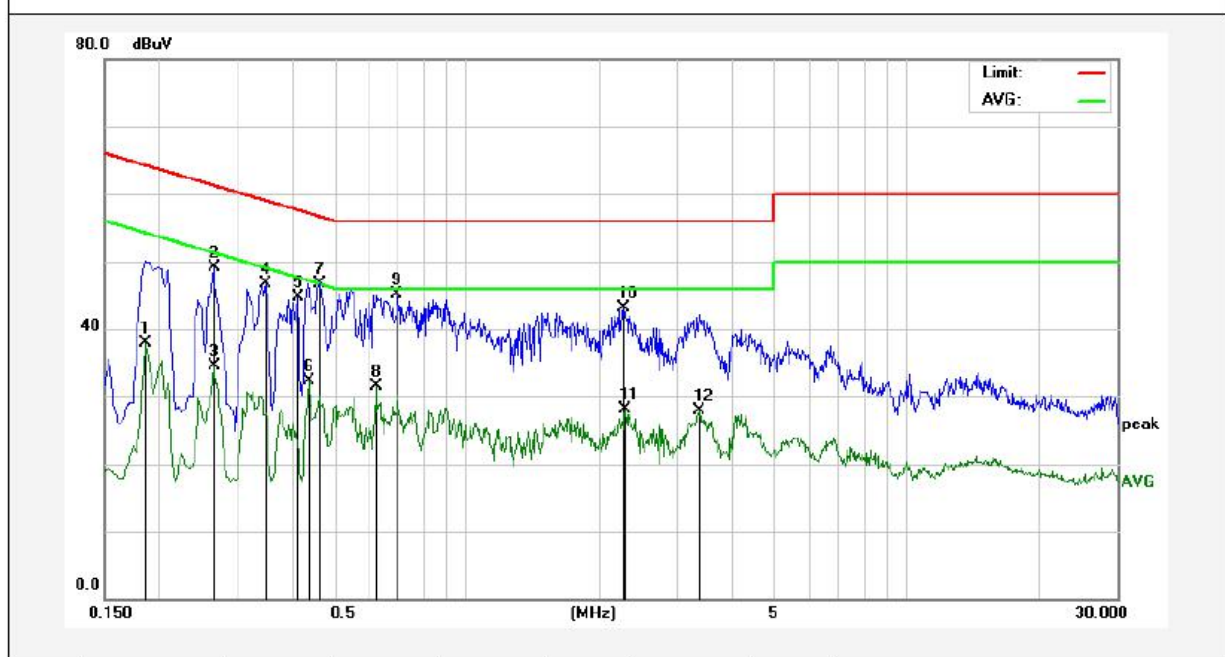
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

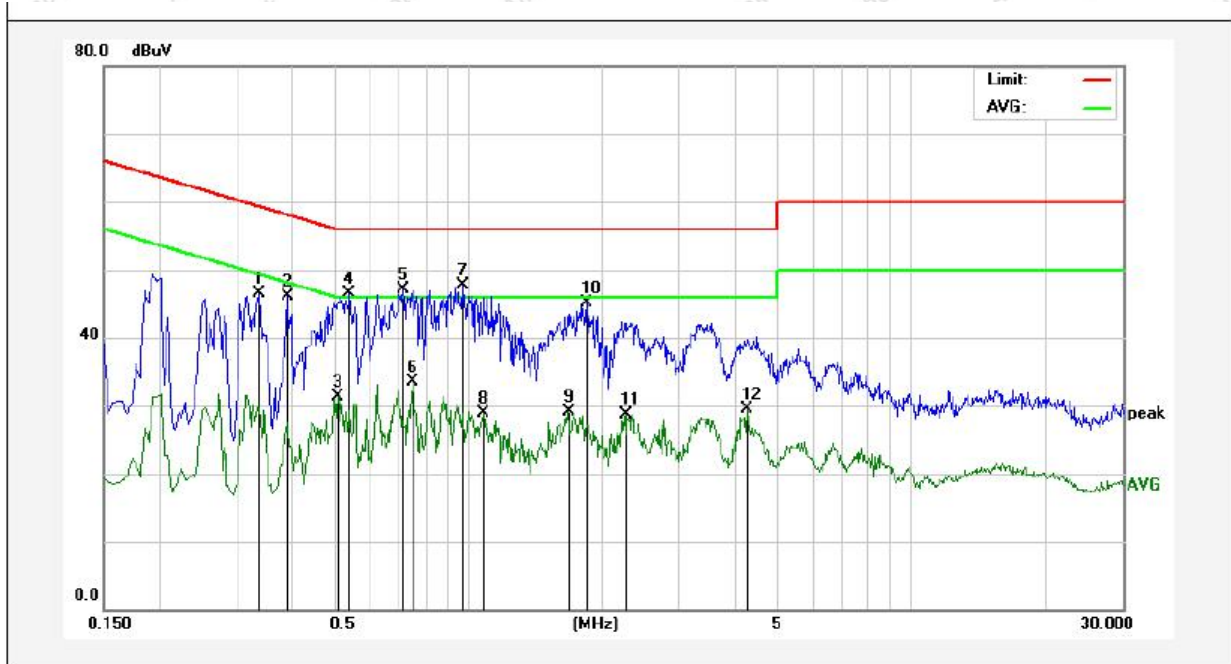
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 24.7°C Hum.: 51%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1860	18.09	19.90	37.99	54.21	-16.22	AVG	
2	0.2660	29.19	19.89	49.08	61.24	-12.16	QP	
3	0.2660	14.57	19.89	34.46	51.24	-16.78	AVG	
4	0.3500	26.84	19.91	46.75	58.96	-12.21	QP	
5	0.4140	24.85	19.94	44.79	57.57	-12.78	QP	
6	0.4380	12.38	19.95	32.33	47.10	-14.77	AVG	
7	0.4660	26.70	19.96	46.66	56.58	-9.92	QP	
8	0.6220	11.40	20.02	31.42	46.00	-14.58	AVG	
9	0.6940	25.12	20.04	45.16	56.00	-10.84	QP	
10	2.2820	22.98	20.15	43.13	56.00	-12.87	QP	
11	2.2860	7.97	20.15	28.12	46.00	-17.88	AVG	
12	3.3740	7.81	20.17	27.98	46.00	-18.02	AVG	

Conducted Emission Test Data

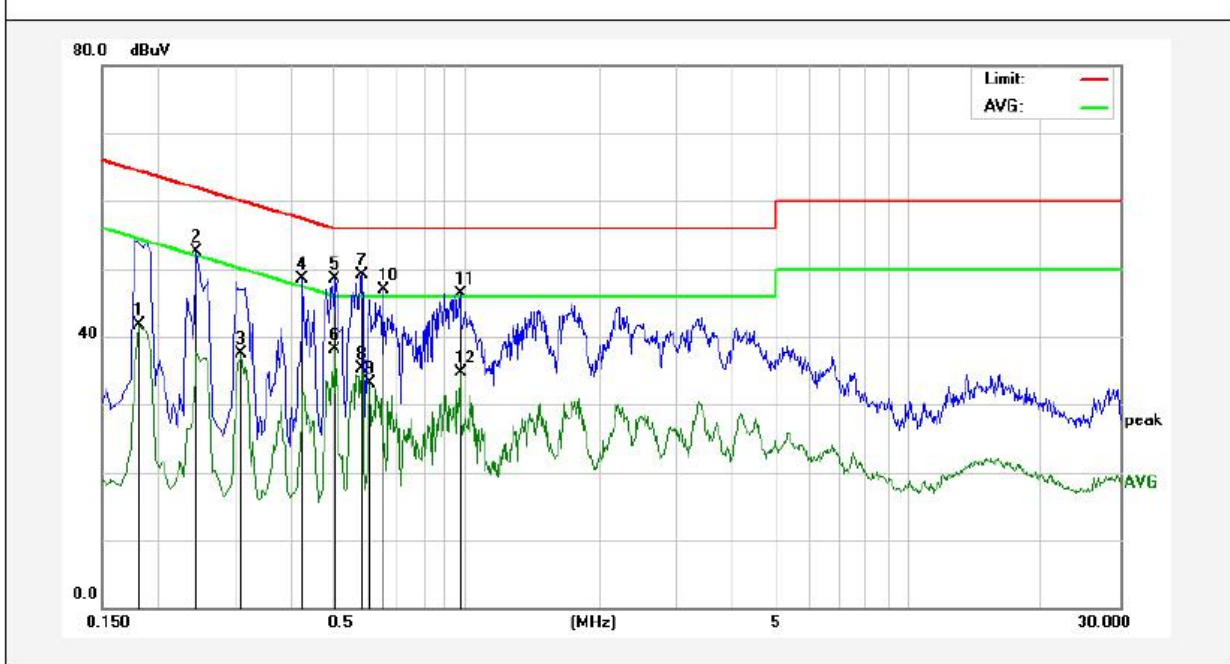
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.7°C Hum.: 51%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3379	26.54	19.91	46.45	59.25	-12.80	QP	
2	0.3899	26.09	19.93	46.02	58.06	-12.04	QP	
3	0.5100	11.31	19.98	31.29	46.00	-14.71	AVG	
4	0.5380	26.46	19.99	46.45	56.00	-9.55	QP	
5	0.7140	26.97	20.04	47.01	56.00	-8.99	QP	
6	0.7500	13.48	20.05	33.53	46.00	-12.47	AVG	
7	0.9700	27.55	20.11	47.66	56.00	-8.34	QP	
8	1.0820	8.86	20.12	28.98	46.00	-17.02	AVG	
9	1.6740	8.88	20.13	29.01	46.00	-16.99	AVG	
10	1.8580	24.88	20.14	45.02	56.00	-10.98	QP	
11	2.2820	8.57	20.15	28.72	46.00	-17.28	AVG	
12	4.2500	9.36	20.19	29.55	46.00	-16.45	AVG	

Conducted Emission Test Data

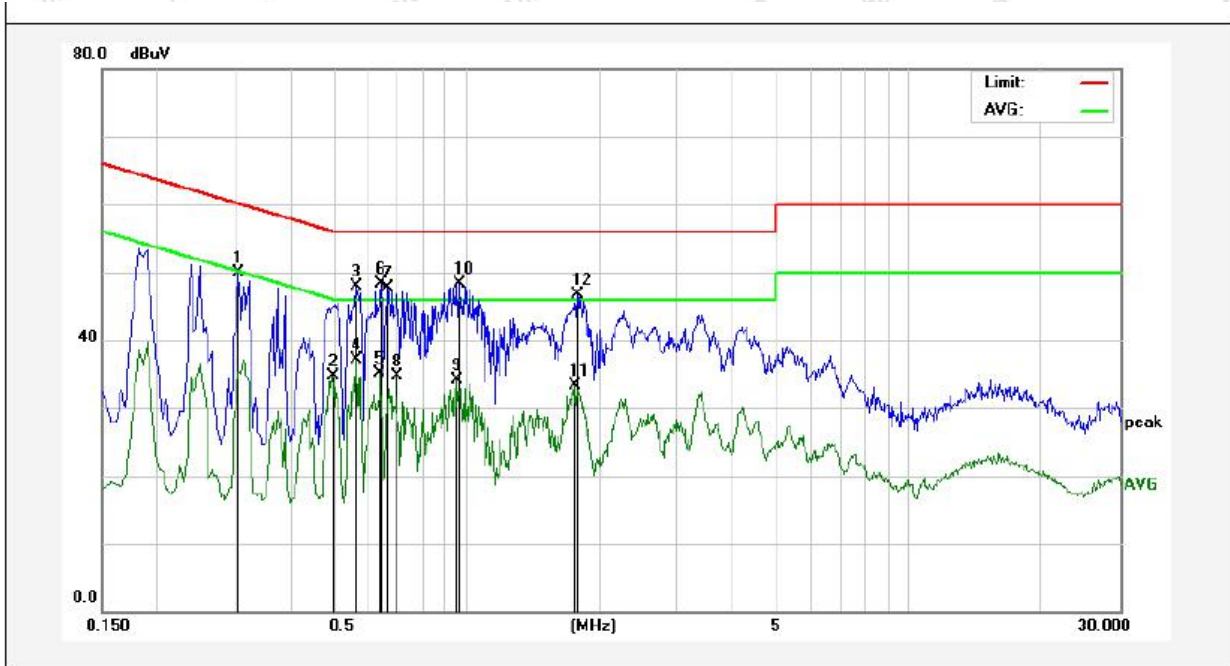
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 24.7°C Hum.: 51%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1819	21.75	19.90	41.65	54.39	-12.74	AVG	
2	0.2460	32.64	19.89	52.53	61.89	-9.36	QP	
3	0.3100	17.59	19.89	37.48	49.97	-12.49	AVG	
4	0.4260	28.52	19.95	48.47	57.33	-8.86	QP	
5	0.5060	28.49	19.98	48.47	56.00	-7.53	QP	
6	0.5060	18.15	19.98	38.13	46.00	-7.87	AVG	
7	0.5820	29.07	20.00	49.07	56.00	-6.93	QP	
8	0.5820	15.21	20.00	35.21	46.00	-10.79	AVG	
9	0.6060	13.15	20.01	33.16	46.00	-12.84	AVG	
10	0.6500	26.92	20.02	46.94	56.00	-9.06	QP	
11	0.9700	26.24	20.11	46.35	56.00	-9.65	QP	
12	0.9700	14.65	20.11	34.76	46.00	-11.24	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.7°C Hum.: 51%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.3060	29.94	19.89	49.83	60.08	-10.25	QP	
2	0.4980	14.73	19.98	34.71	46.03	-11.32	AVG	
3	0.5660	27.86	20.00	47.86	56.00	-8.14	QP	
4	0.5660	17.18	20.00	37.18	46.00	-8.82	AVG	
5	0.6380	15.02	20.02	35.04	46.00	-10.96	AVG	
6	0.6419	28.32	20.02	48.34	56.00	-7.66	QP	
7	0.6660	27.67	20.03	47.70	56.00	-8.30	QP	
8	0.6940	14.61	20.04	34.65	46.00	-11.35	AVG	
9	0.9540	13.90	20.11	34.01	46.00	-11.99	AVG	
10	0.9660	28.25	20.11	48.36	56.00	-7.64	QP	
11	1.7660	13.26	20.14	33.40	46.00	-12.60	AVG	
12	1.7860	26.54	20.14	46.68	56.00	-9.32	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

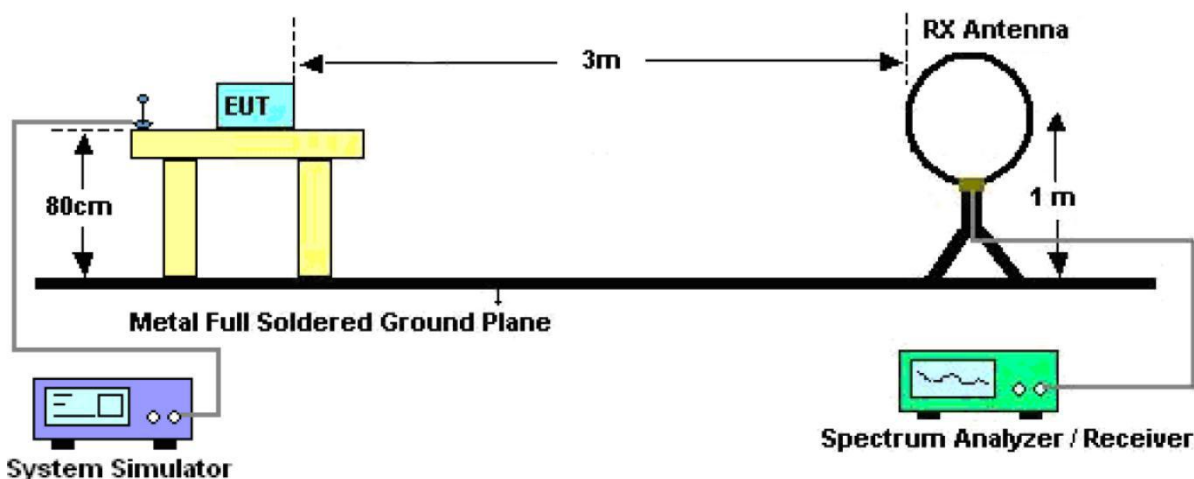


Figure 1. Below 30MHz

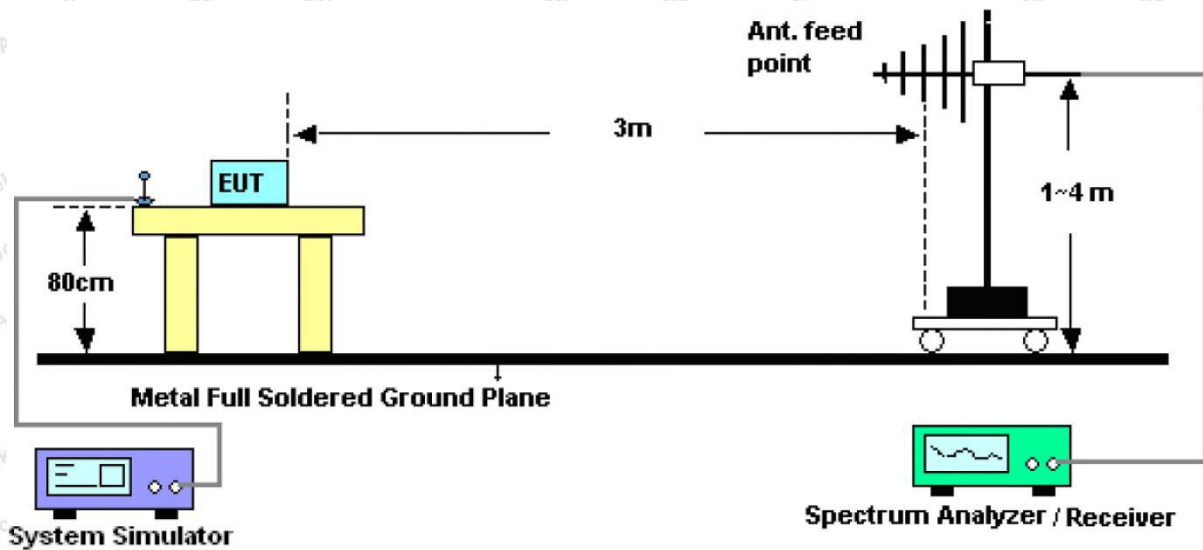


Figure 2. 30MHz to 1GHz

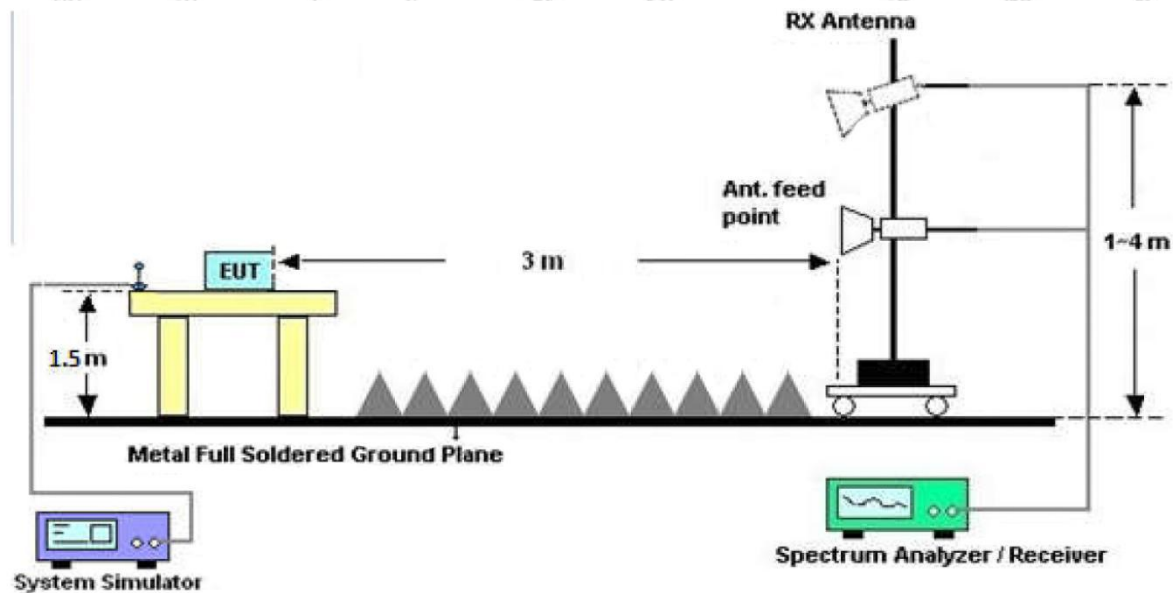


Figure 3. Above 1 GHz

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.: SZAWW180523002-01

Standard: FCC PART15 C_3m

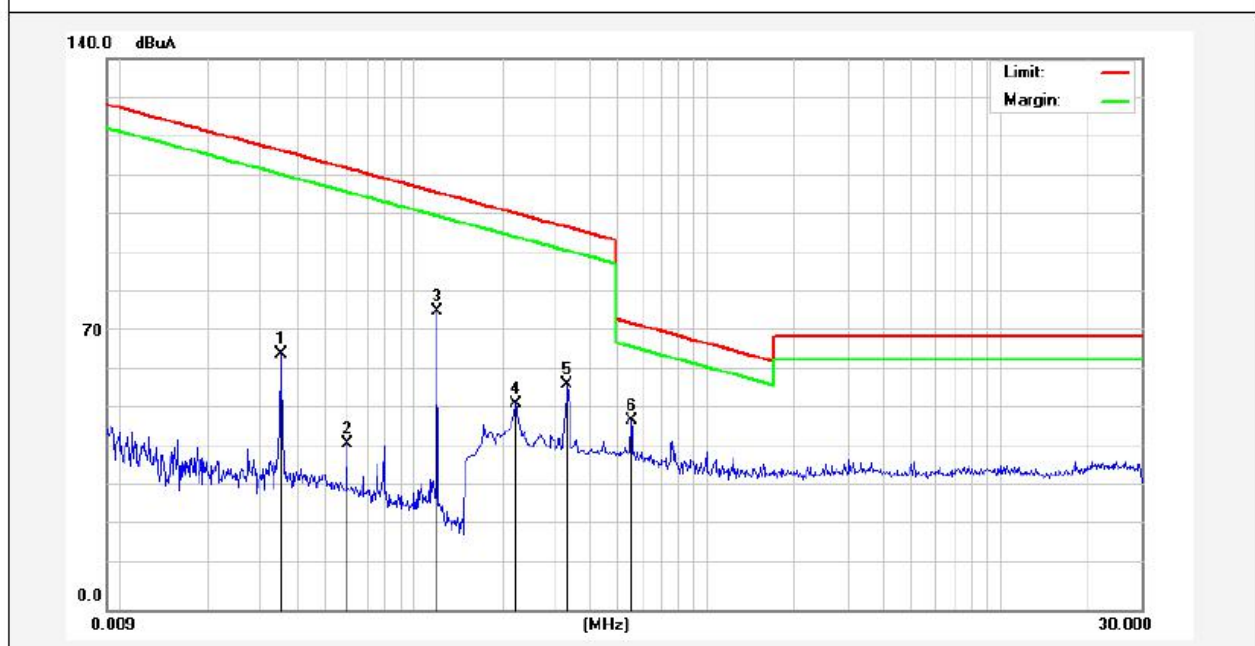
Power Source: DC 3.7V battery inside

Test item: Radiation Test

Temp.(C)/Hum. (%RH): 24.7(C)/51%RH

Test Mode: Mode 4

Distance: 3m

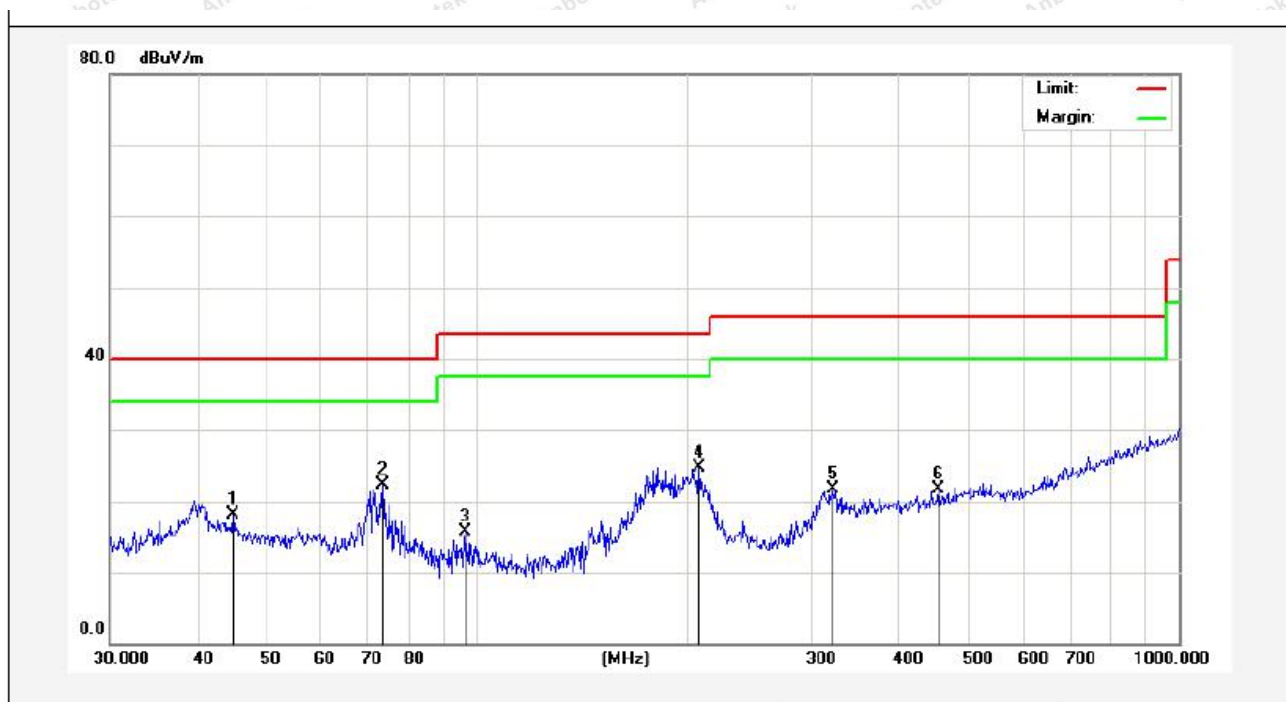


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dgc)
0.0352	51.29	19.30	2.53	0	73.12	136.55	-63.43	Peak	69
0.0352	43.23	19.30	2.53	0	65.06	116.55	-51.49	AV	69
0.0592	28.94	19.30	2.53	0	50.77	132.05	-81.28	Peak	263
0.0592	20.49	19.30	2.53	0	42.32	112.05	-69.73	AV	263
0.1199	61.89	19.63	2.59	0	84.11	125.96	-41.85	Peak	152
0.1199	53.69	19.63	2.59	0	75.91	105.96	-30.05	AV	152
0.2220	41.04	19.63	2.59	0	63.26	120.64	-57.38	Peak	27
0.2220	29.94	19.63	2.59	0	52.16	100.64	-48.48	AV	27
0.3339	44.73	19.63	2.59	0	66.95	117.11	-50.16	Peak	335
0.3339	34.94	19.63	2.59	0	57.16	97.11	-39.95	AV	335
0.5554	25.97	19.65	2.61	0	48.23	72.73	-24.50	QP	351

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.

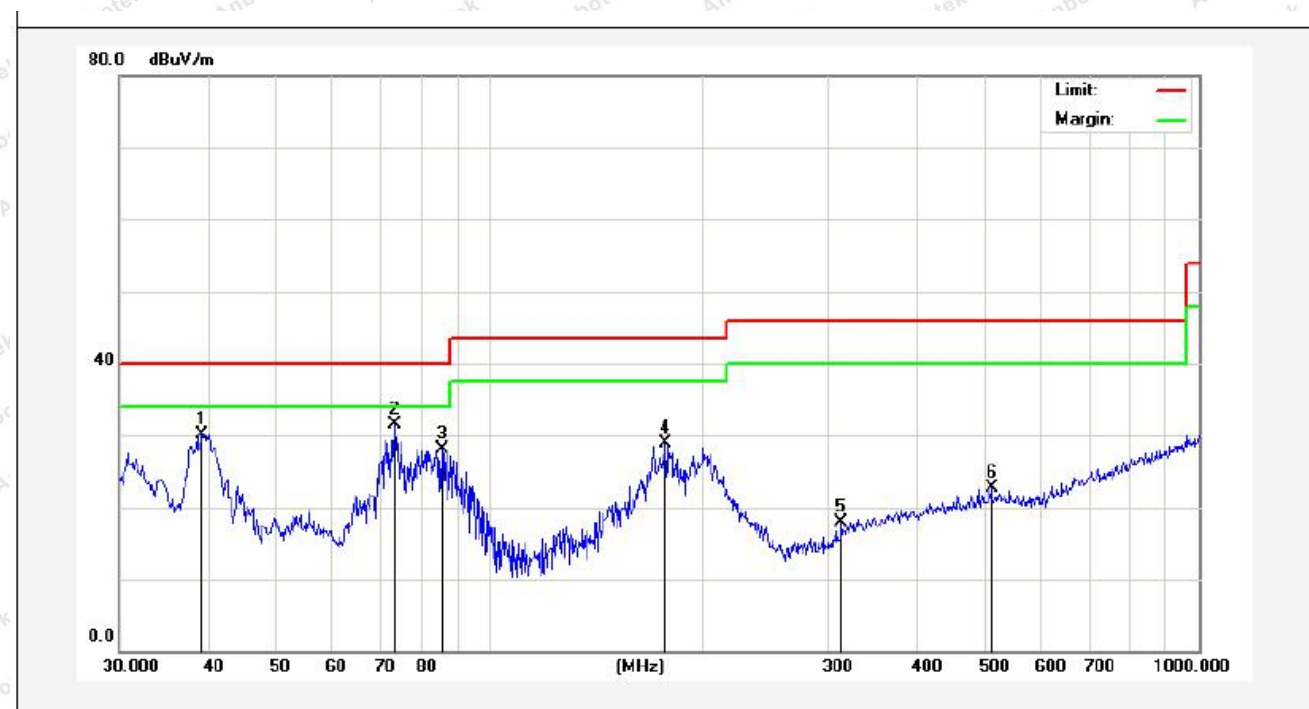
(Between 30MHz -1000 MHz)

Job No.:	SZAWW180523002-01	Polarization:	Horizontal
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.2(C)/54%RH
Test Mode:	Mode 4	Distance:	3m



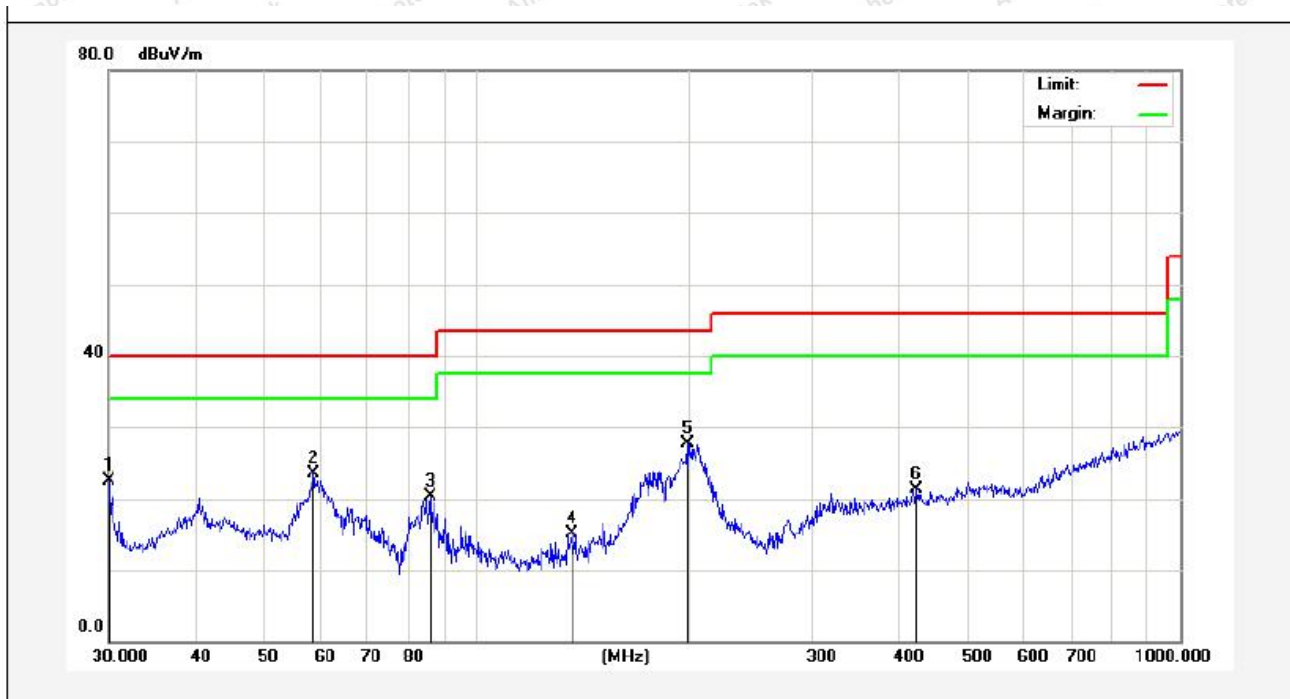
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	44.9006	33.41	-15.31	18.10	40.00	-21.90	QP	300	0	
2	73.3593	43.55	-21.34	22.21	40.00	-17.79	QP	300	36	
3	96.4362	36.88	-21.09	15.79	43.50	-27.71	QP	300	102	
4	207.1226	43.78	-19.02	24.76	43.50	-18.74	QP	300	222	
5	322.1886	36.85	-15.15	21.70	46.00	-24.30	QP	300	306	
6	454.3100	33.86	-12.14	21.72	46.00	-24.28	QP	300	360	

Job No.:	SZAWW180523002-01	Polarization:	Vertical
Standard:	FCC PART15 C_3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	23.2(C)/54%RH
Test Mode:	Mode 4	Distance:	3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.2991	43.96	-13.76	30.20	40.00	-9.80	QP	300	3	
2	73.3593	51.87	-20.34	31.53	40.00	-8.47	QP	300	63	
3	85.5977	45.87	-17.86	28.01	40.00	-11.99	QP	300	108	
4	176.8878	44.97	-16.06	28.91	43.50	-14.59	QP	300	139	
5	313.2760	32.33	-14.40	17.93	46.00	-28.07	QP	300	230	
6	510.0436	33.41	-10.77	22.64	46.00	-23.36	QP	300	360	

Job No.: SZAWW180523002-01 **Polarization:** Horizontal
Standard: FCC PART15 C_3m **Power Source:** AC 240V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 23.2(C)/54%RH
Test Mode: Mode 4 **Distance:** 3m



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	30.0000	41.08	-18.55	22.53	40.00	-17.47	QP	300	0	
2	58.6126	40.41	-16.93	23.48	40.00	-16.52	QP	300	26	
3	85.8984	41.71	-21.36	20.35	40.00	-19.65	QP	300	106	
4	136.9391	36.70	-21.55	15.15	43.50	-28.35	QP	300	202	
5	199.2855	46.55	-18.94	27.61	43.50	-15.89	QP	300	300	
6	422.0577	33.61	-12.36	21.25	46.00	-24.75	QP	300	360	

Job No.: SZAWW180523002-01 **Polarization:** Vertical
Standard: FCC PART15 C_3m **Power Source:** AC 240V, 60Hz for adapter
Test item: Radiation Test **Temp.(C)/Hum.(%RH):** 23.2(C)/54%RH
Test Mode: Mode 4 **Distance:** 3m



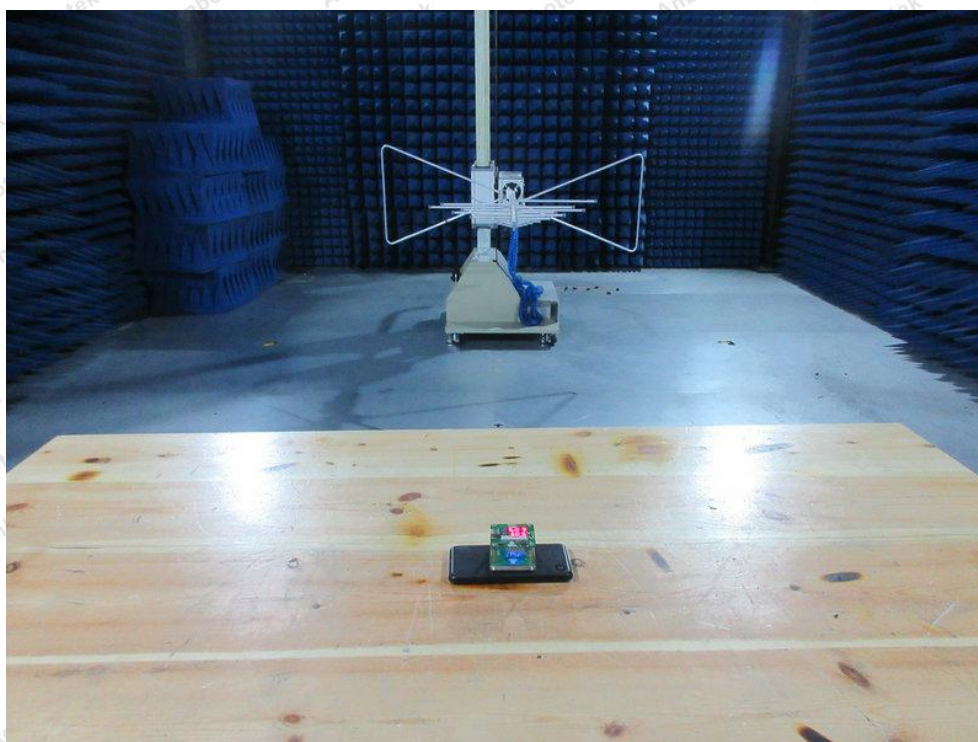
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.2757	41.77	-13.43	28.34	40.00	-11.66	QP	300	0	
2	58.6126	49.01	-15.93	33.08	40.00	-6.92	QP	300	26	
3	84.2699	51.52	-18.21	33.31	40.00	-6.69	QP	300	34	
4	186.4409	47.73	-15.25	32.48	43.50	-11.02	QP	300	103	
5	222.9502	39.72	-14.20	25.52	46.00	-20.48	QP	300	202	
6	533.8321	33.44	-10.38	23.06	46.00	-22.94	QP	300	360	

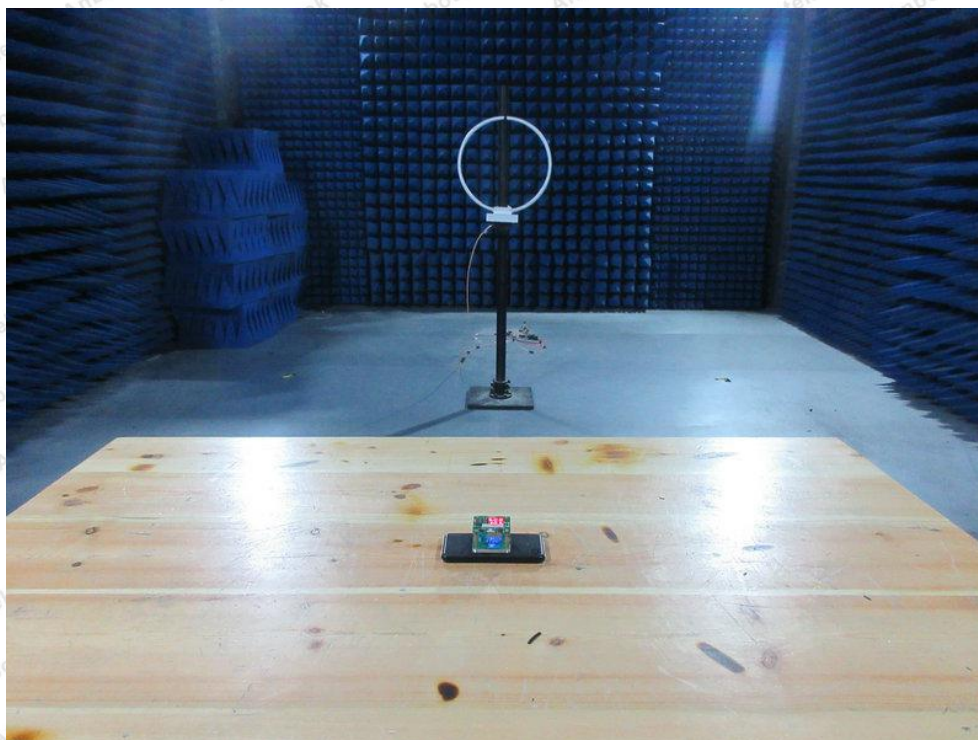
APPENDIX I-- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test





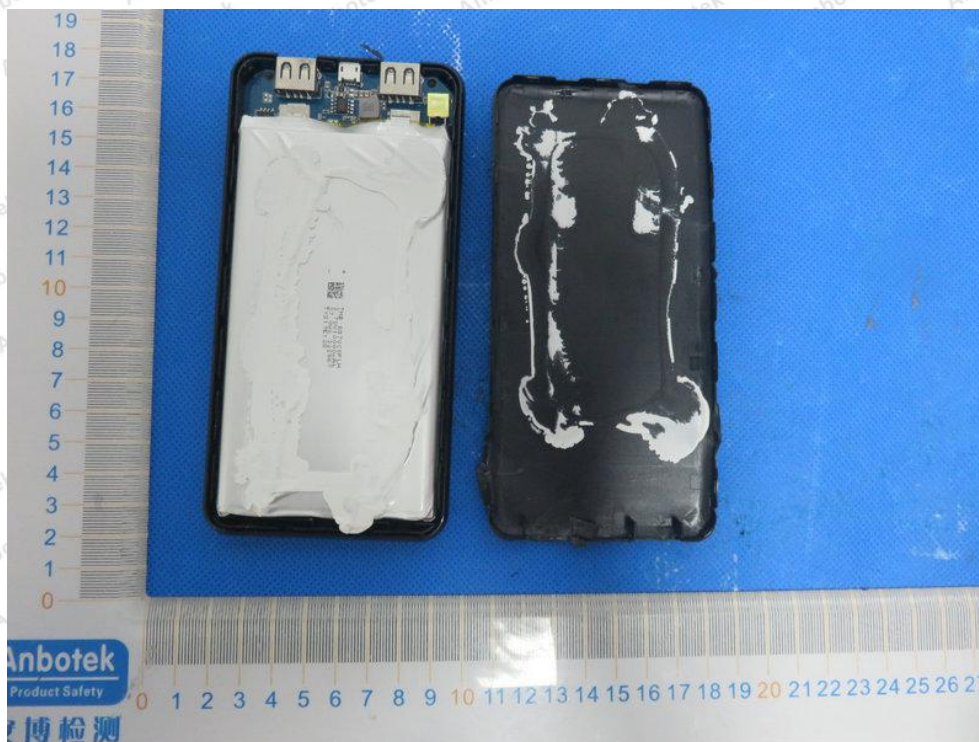
APPENDIX II -- EXTERNAL PHOTOGRAPH

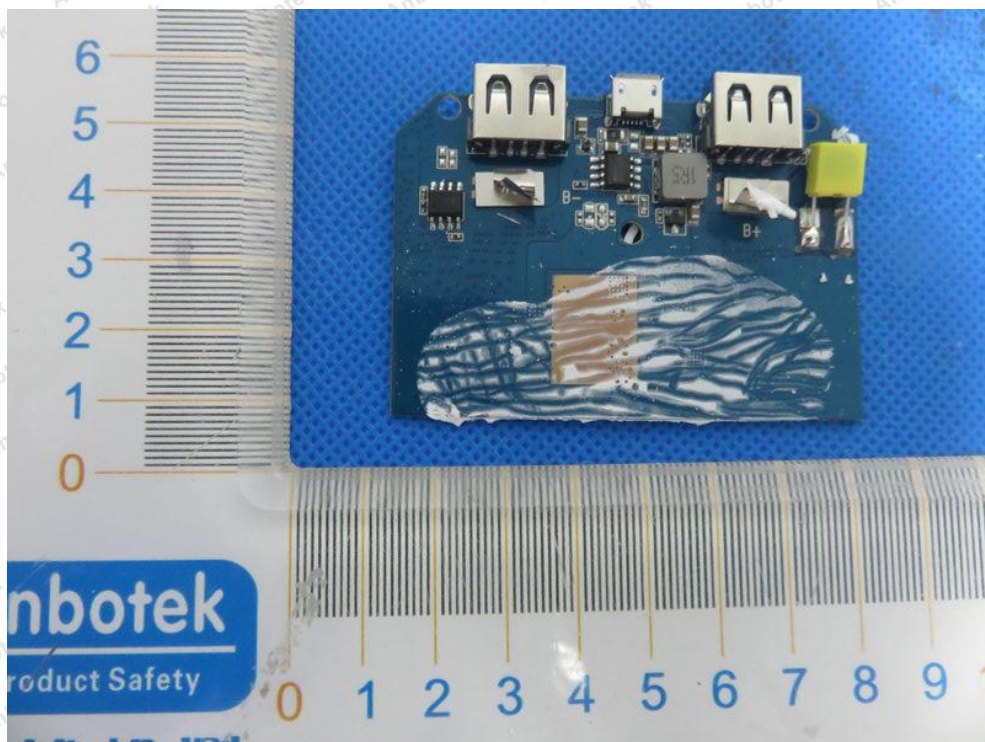
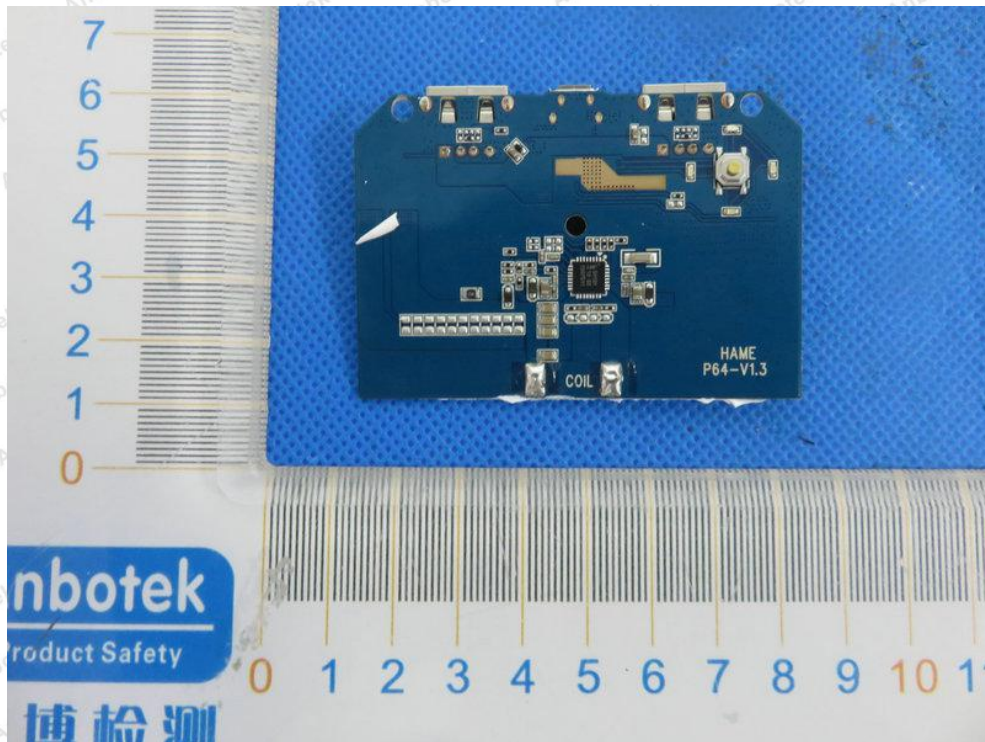


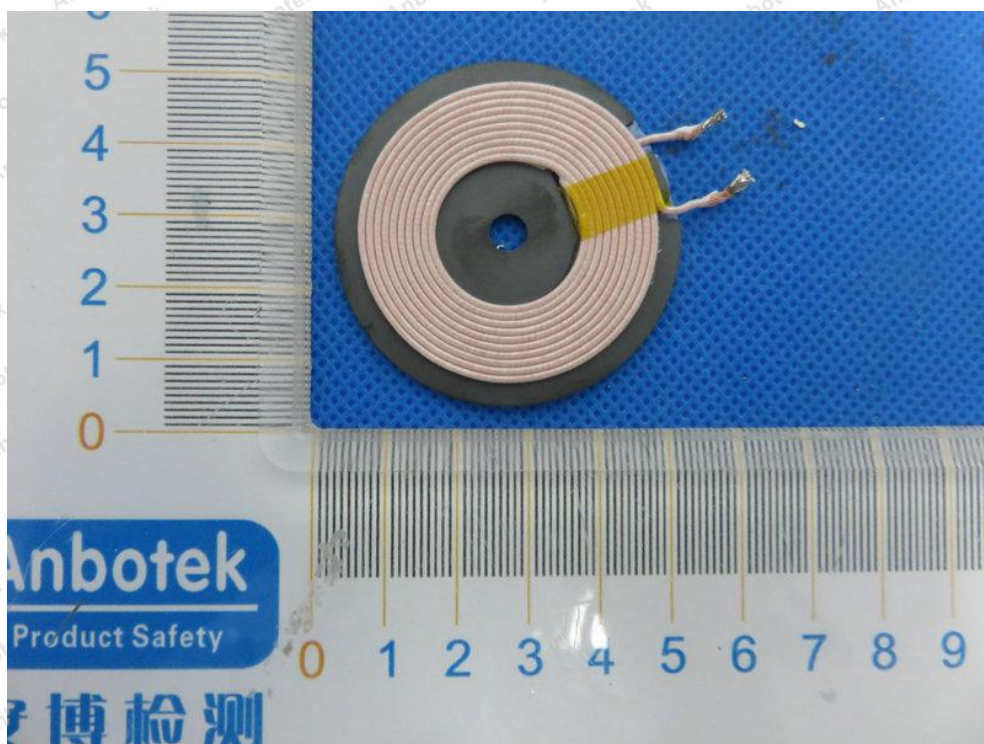


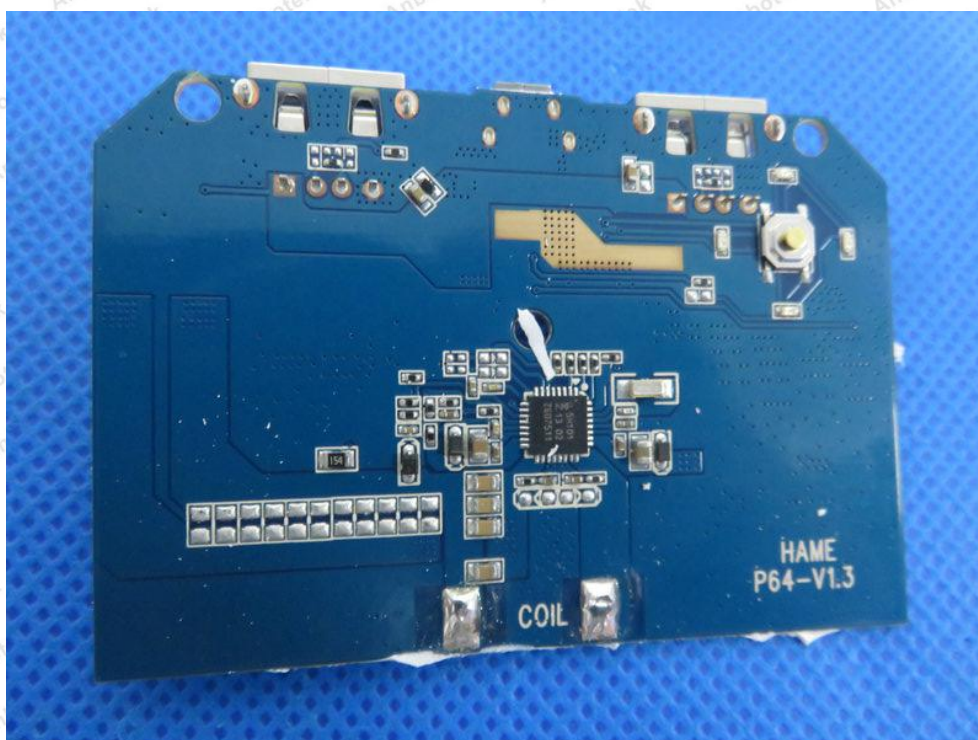
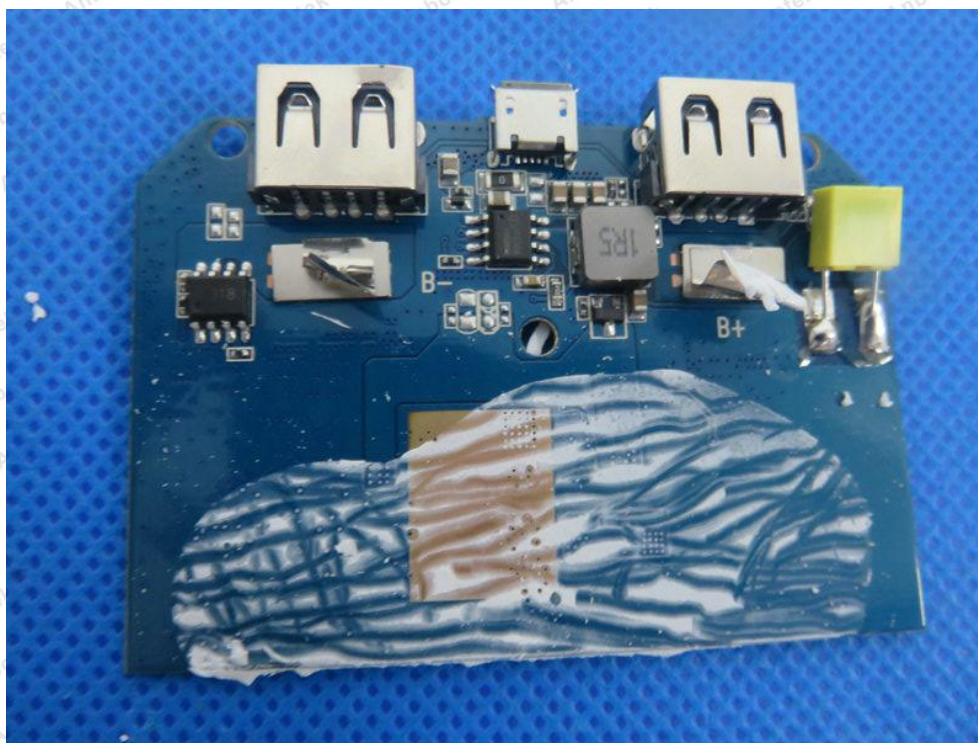


APPENDIX III -- INTERNAL PHOTOGRAPH









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