FCC TEST REPORT

For

Shenzhen Mossloo Industrial Co.,Ltd

Wireless powerbank

Model No.: MSL-M617Q

Prepared For	:	Shenzhen Mossloo Industrial Co.,Ltd
Address	:	Road One No.4, Science Industrial Park,Shangxue Village, Bantian Street,Longgang District, Shenzhen,China
Prepared By	:	Shenzhen Anbotek Compliance Laboratory Limited
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Report Number	:	SZAWW180524006-01
Date of Test	:	May 24~Jun. 20, 2018
Date of Report	:	Jun. 20, 2018

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TEST REPORT

Applicant	:	Shenzhen Mossloo Industrial Co.,Ltd
Manufacturer	:	Shenzhen Mossloo Industrial Co.,Ltd
Product Name	:	Wireless powerbank
Model No.	:	MSL-M617Q
Trade Mark	:	N.A.
Rating(s)	:	Input: DC 5V, 2A (with DC 3.7V, 5000 mAh Battery inside) USB Output: DC 5V, 2A Type-C Output: DC 5V, 2A 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 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 May 24~Jun. 20, 2018

Prepared by (Engineer / Oliay Yang)

Reviewer (Supervisor / Calvin Liu)

Approved & Authorized Signer (Manager / Tom Chen)

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Mossloo Industrial Co.,Ltd
Address	:	Road One No.4, Science Industrial Park,Shangxue Village, Bantian Street,Longgang District, Shenzhen,China
Manufacturer	:	Shenzhen Mossloo Industrial Co.,Ltd
Address	:	Road One No.4, Science Industrial Park,Shangxue Village, Bantian Street,Longgang District, Shenzhen,China

1.2. Description of Device (EUT)

Product Name	:	Wireless powerbank	
Model No.	:	MSL-M617Q	
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:	MSK
		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: ZTE M/N: STC-A2050I1000USBA-C S/N: 201202102100876 Input: 100-240V~50/60Hz 0.3A Output: DC 5V, 1000mA

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

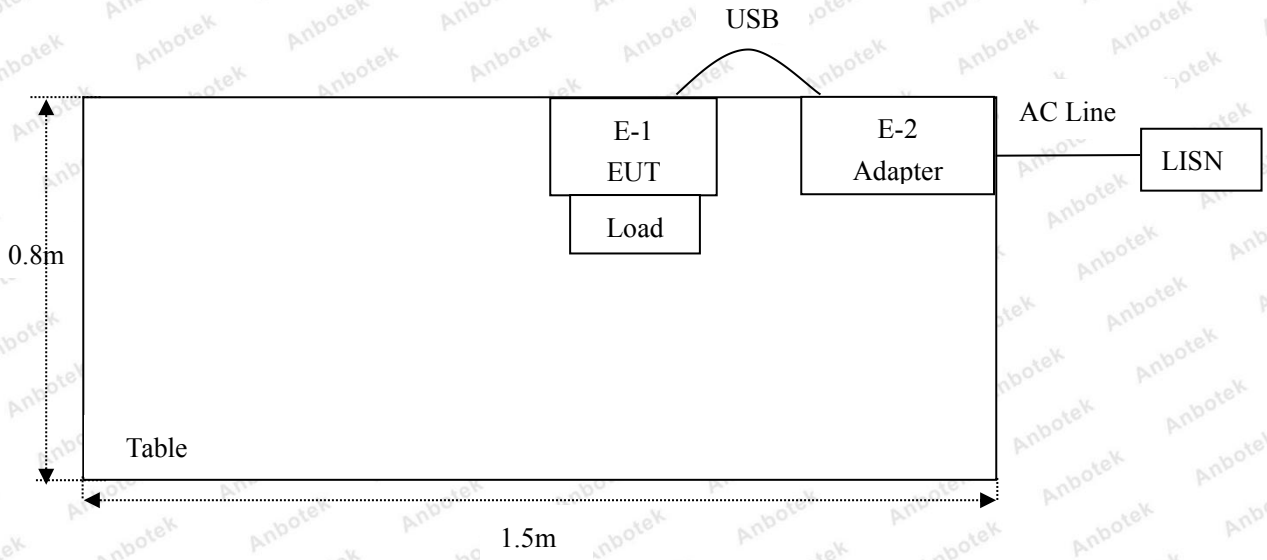
For Radiated Emission	
Final Test Mode	Description
Mode 1	CH01
Mode 2	CH10
Mode 3	CH20
Mode 4	Keeping TX+Charging mode

1.5. List of channels

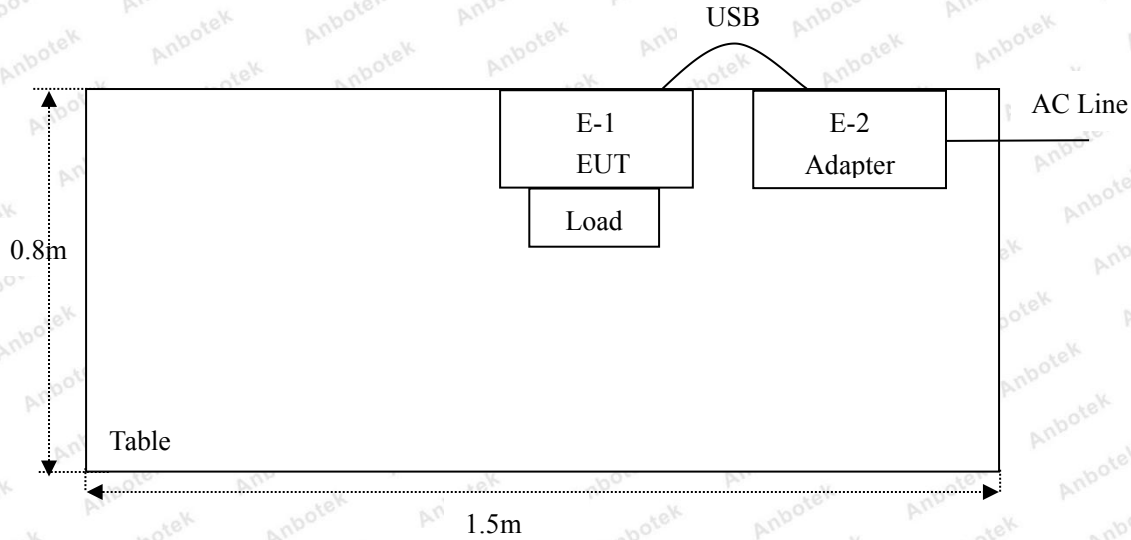
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	0.110	6	0.135	11	0.160	16	0.185
2	0.115	7	0.140	12	0.165	17	0.190
3	0.120	8	0.145	13	0.170	18	0.195
4	0.125	9	0.150	14	0.175	19	0.200
5	0.130	10	0.155	15	0.180	20	0.205

1.6. Description Of Test Setup

CE



RE



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	Schewarzbeck	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 Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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

All Emissions tests were performed at Shenzhen Anbotek 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

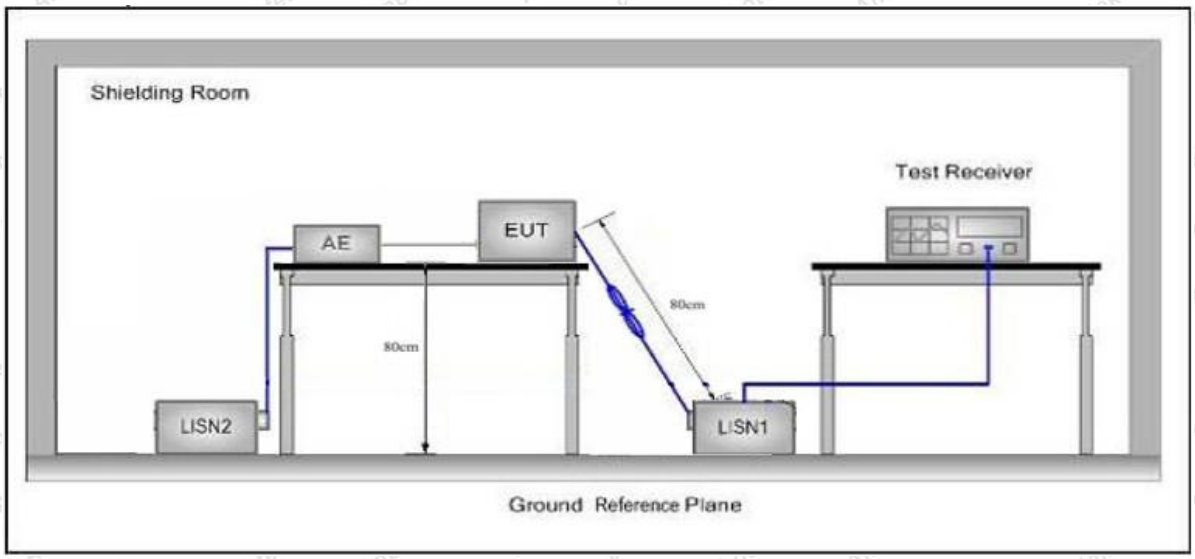
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS

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.

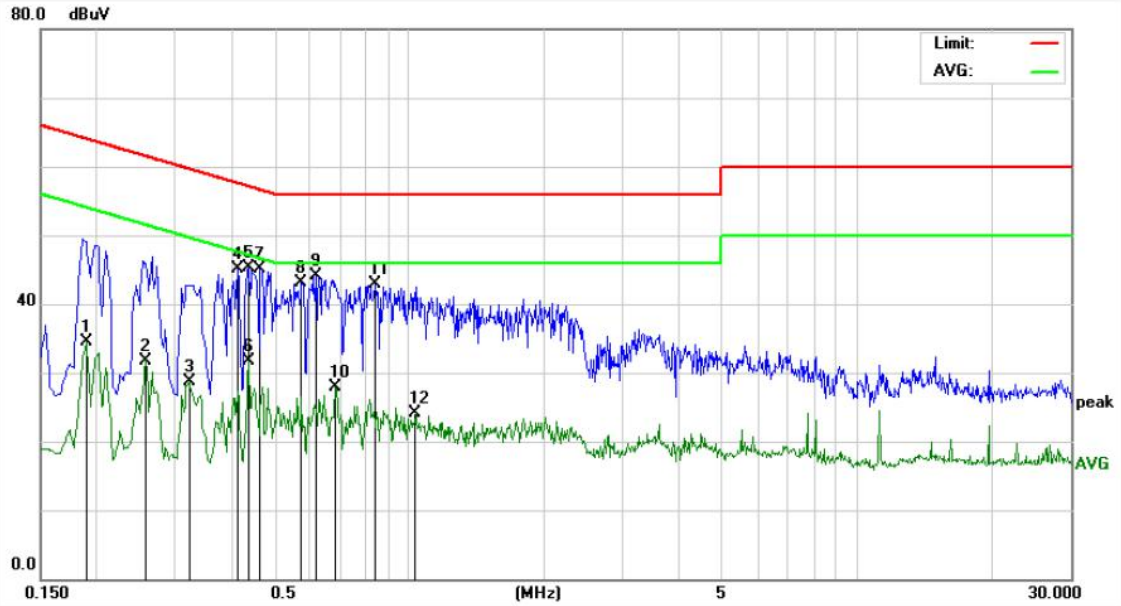
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

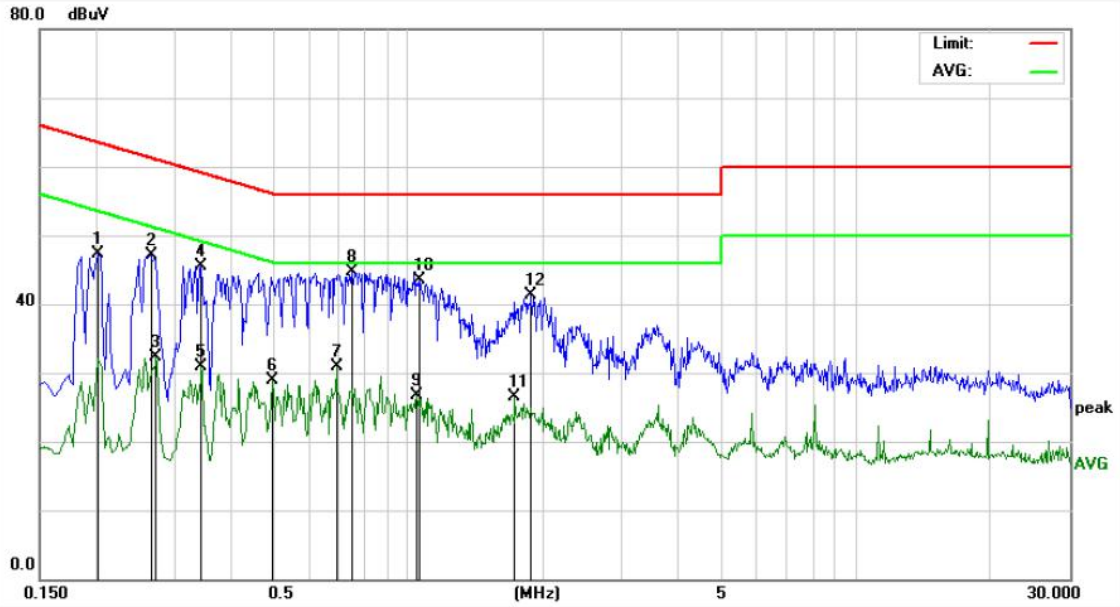
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.:22.3℃ Hum.:57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1900	14.64	19.90	34.54	54.03	-19.49	AVG	
2	0.2580	11.91	19.89	31.80	51.49	-19.69	AVG	
3	0.3220	8.75	19.90	28.65	49.65	-21.00	AVG	
4	0.4140	25.24	19.94	45.18	57.57	-12.39	QP	
5	0.4380	25.30	19.95	45.25	57.10	-11.85	QP	
6	0.4380	11.80	19.95	31.75	47.10	-15.35	AVG	
7	0.4660	25.22	19.96	45.18	56.58	-11.40	QP	
8	0.5740	23.11	20.00	43.11	56.00	-12.89	QP	
9	0.6180	24.12	20.02	44.14	56.00	-11.86	QP	
10	0.6860	7.78	20.04	27.82	46.00	-18.18	AVG	
11	0.8380	22.82	20.08	42.90	56.00	-13.10	QP	
12	1.0339	3.91	20.12	24.03	46.00	-21.97	AVG	

Conducted Emission Test Data

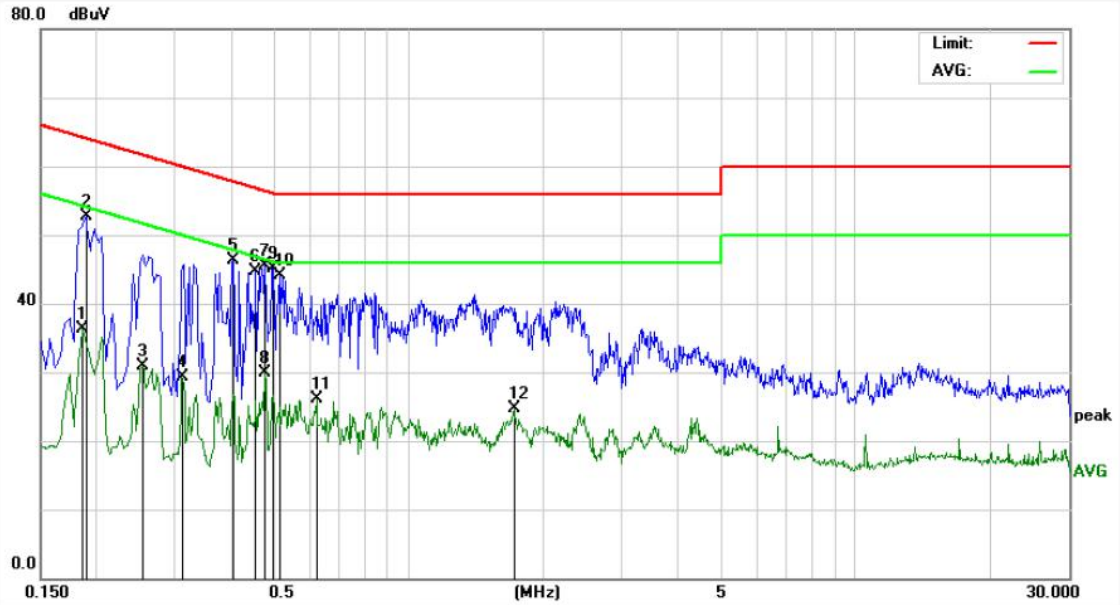
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.:22.3℃ Hum.:57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2020	27.40	19.90	47.30	63.52	-16.22	QP	
2	0.2660	27.22	19.89	47.11	61.24	-14.13	QP	
3	0.2740	12.42	19.89	32.31	50.99	-18.68	AVG	
4	0.3460	25.60	19.91	45.51	59.06	-13.55	QP	
5	0.3460	11.05	19.91	30.96	49.06	-18.10	AVG	
6	0.4980	8.95	19.98	28.93	46.03	-17.10	AVG	
7	0.6900	10.77	20.04	30.81	46.00	-15.19	AVG	
8	0.7500	24.69	20.05	44.74	56.00	-11.26	QP	
9	1.0460	6.53	20.12	26.65	46.00	-19.35	AVG	
10	1.0620	23.34	20.12	43.46	56.00	-12.54	QP	
11	1.7300	6.34	20.13	26.47	46.00	-19.53	AVG	
12	1.8780	21.10	20.14	41.24	56.00	-14.76	QP	

Conducted Emission Test Data

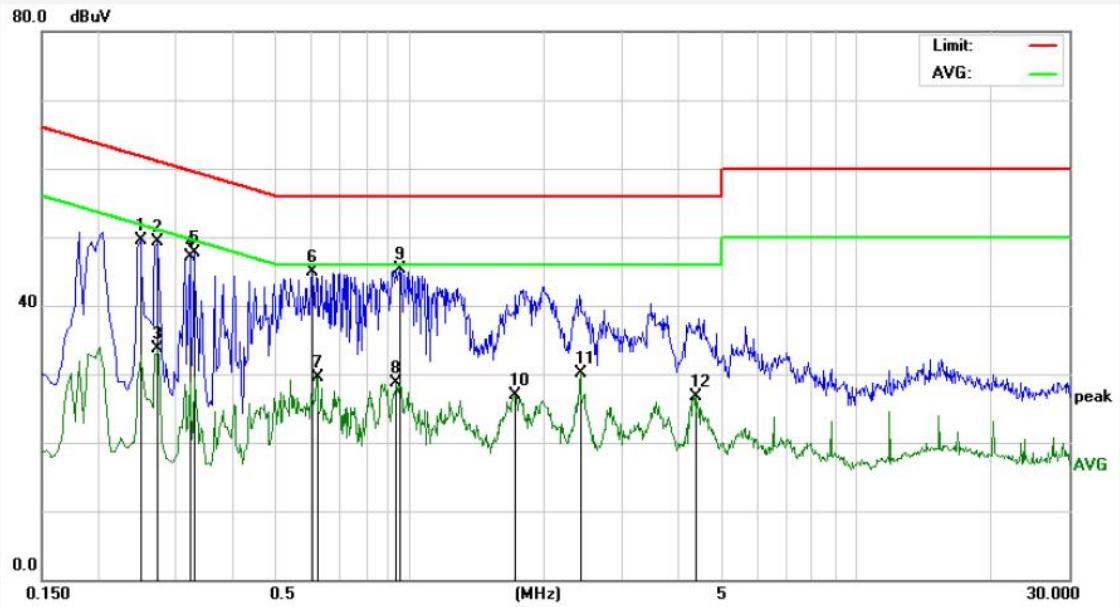
Test Site: 1# Shielded Room
Operating Condition: Keeping TX+Charging mode
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.:22.3℃ Hum.:57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1860	16.42	19.90	36.32	54.21	-17.89	AVG	
2	0.1900	32.72	19.90	52.62	64.03	-11.41	QP	
3	0.2540	10.96	19.89	30.85	51.62	-20.77	AVG	
4	0.3100	9.36	19.89	29.25	49.97	-20.72	AVG	
5	0.4060	26.39	19.94	46.33	57.73	-11.40	QP	
6	0.4540	24.71	19.96	44.67	56.80	-12.13	QP	
7	0.4780	25.49	19.97	45.46	56.37	-10.91	QP	
8	0.4780	9.84	19.97	29.81	46.37	-16.56	AVG	
9	0.4980	25.19	19.98	45.17	56.03	-10.86	QP	
10	0.5140	24.04	19.98	44.02	56.00	-11.98	QP	
11	0.6220	6.06	20.02	26.08	46.00	-19.92	AVG	
12	1.7220	4.62	20.13	24.75	46.00	-21.25	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.:22.3℃ Hum.:57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2500	29.61	19.89	49.50	61.75	-12.25	QP	
2	0.2740	29.39	19.89	49.28	60.99	-11.71	QP	
3	0.2740	13.76	19.89	33.65	50.99	-17.34	AVG	
4	0.3220	27.21	19.90	47.11	59.65	-12.54	QP	
5	0.3300	27.88	19.90	47.78	59.45	-11.67	QP	
6	0.6060	24.85	20.01	44.86	56.00	-11.14	QP	
7	0.6220	9.53	20.02	29.55	46.00	-16.45	AVG	
8	0.9380	8.51	20.10	28.61	46.00	-17.39	AVG	
9	0.9580	25.25	20.11	45.36	56.00	-10.64	QP	
10	1.7300	6.84	20.13	26.97	46.00	-19.03	AVG	
11	2.4140	10.05	20.15	30.20	46.00	-15.80	AVG	
12	4.3859	6.42	20.19	26.61	46.00	-19.39	AVG	

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

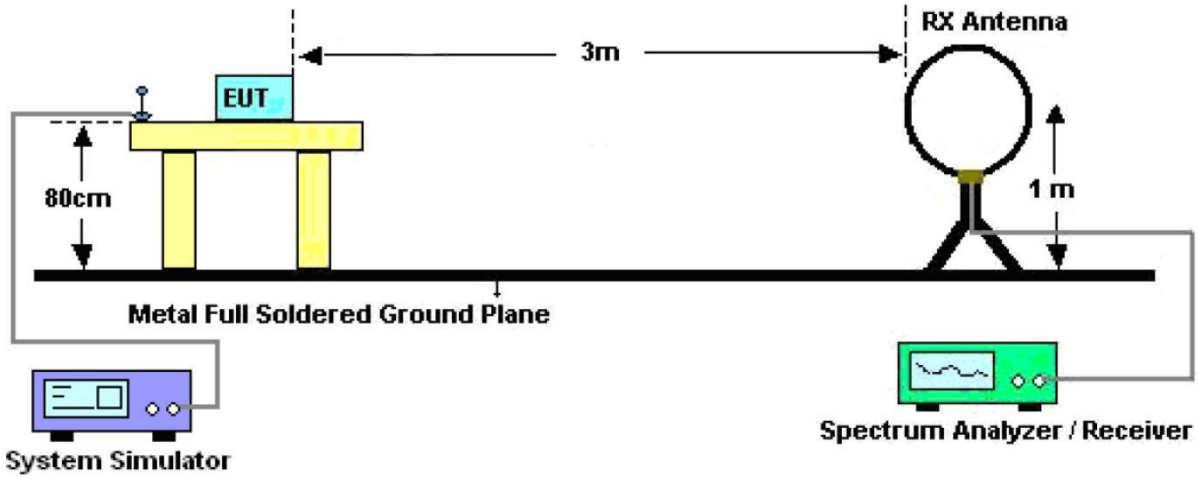


Figure 1. Below 30MHz

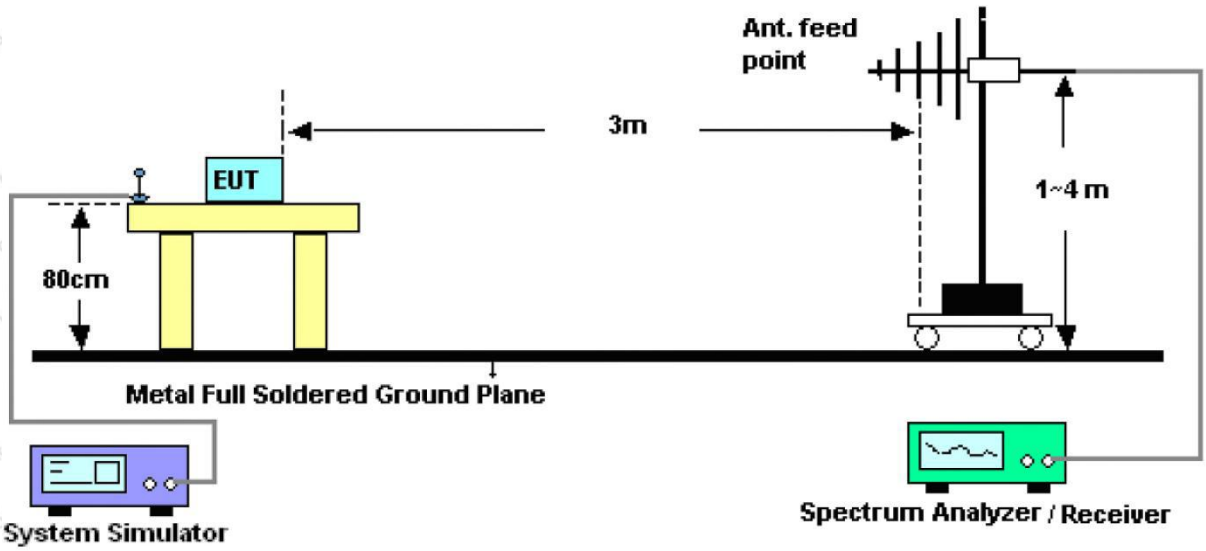


Figure 2. 30MHz to 1GHz

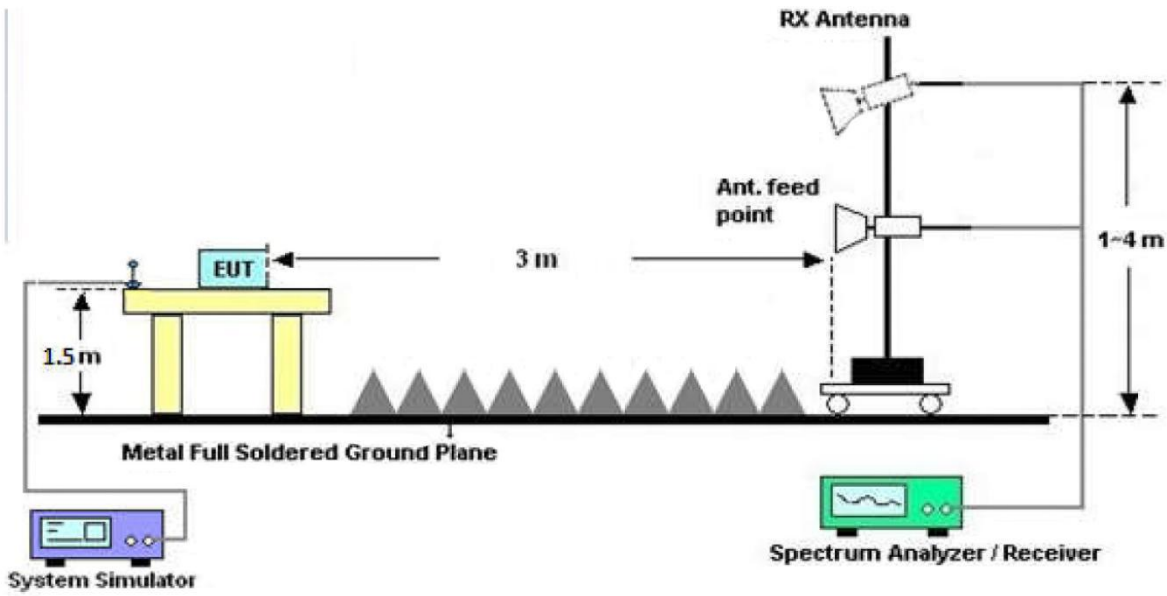


Figure 3. Above 1 GHz

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.

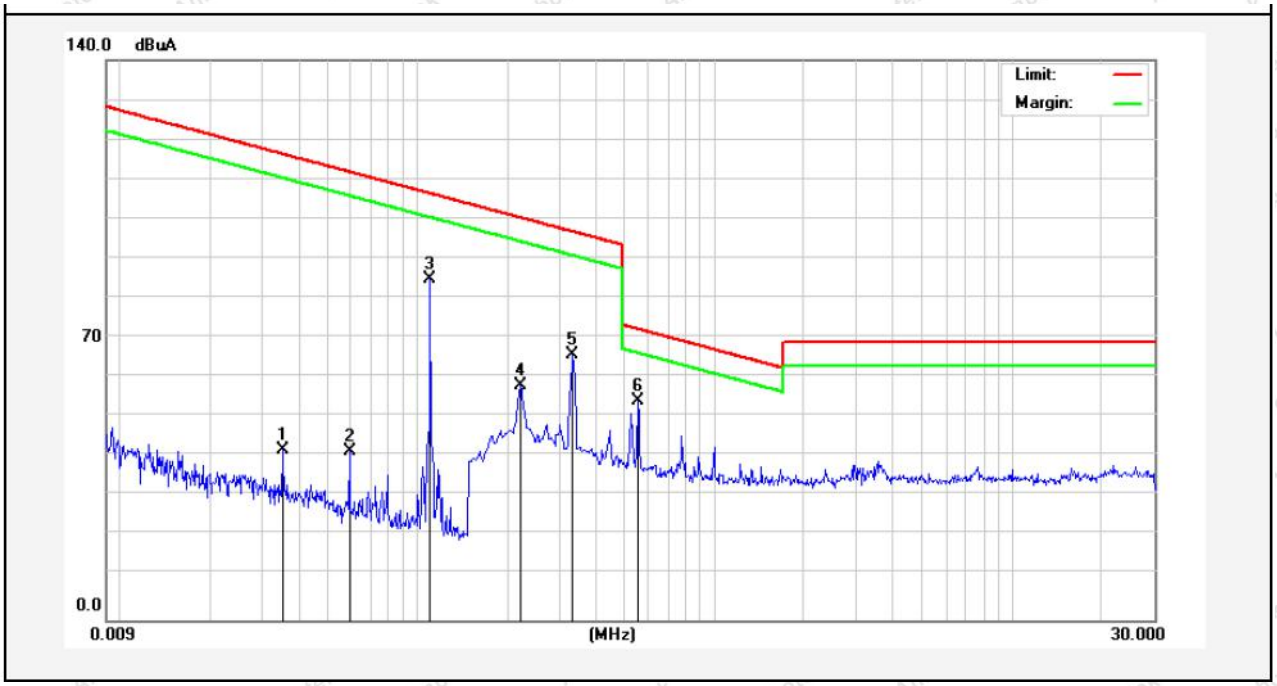
4.4. Test Data

PASS

Test Results

(Between 9KHz – 30MHz)

Job No.:	**SZAWW180524006-01**		
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%RH**
Test Mode:	**Mode 4**	**Distance:**	**3m**

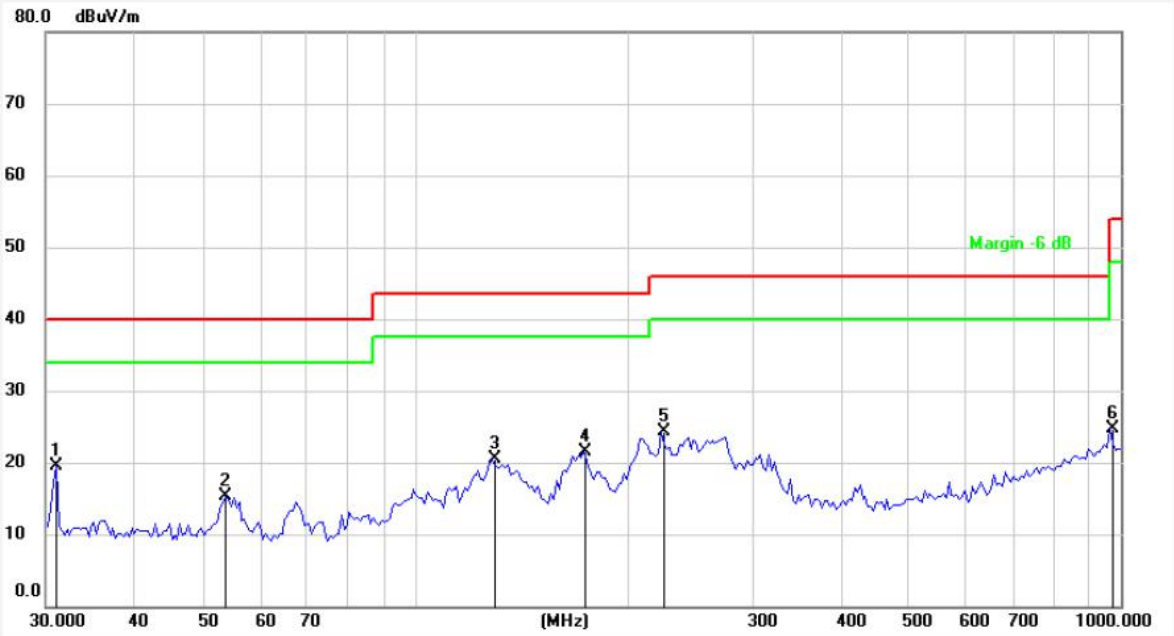


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dge)
0.0353	31.83	19.30	2.53	0	53.66	136.48	-82.82	Peak	36
0.0353	20.74	19.30	2.53	0	42.57	116.48	-73.91	AV	36
0.0593	32.80	19.30	2.53	0	54.63	132.04	-77.41	Peak	218
0.0593	20.32	19.30	2.53	0	42.15	112.04	-69.89	AV	218
0.1108	72.88	19.29	2.54	0	94.71	126.64	-31.93	Peak	147
0.1108	63.49	19.29	2.54	0	85.32	106.64	-21.32	AV	147
0.2220	45.00	19.29	2.54	0	66.83	120.64	-53.81	Peak	229
0.2220	36.95	19.29	2.54	0	58.78	100.64	-41.86	AV	229
0.3339	52.69	19.63	2.59	0	74.91	117.11	-42.20	Peak	345
0.3339	44.16	19.63	2.59	0	66.38	97.11	-30.73	AV	345
0.5540	32.69	19.63	2.59	0	54.91	72.73	-17.82	QP	88

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.

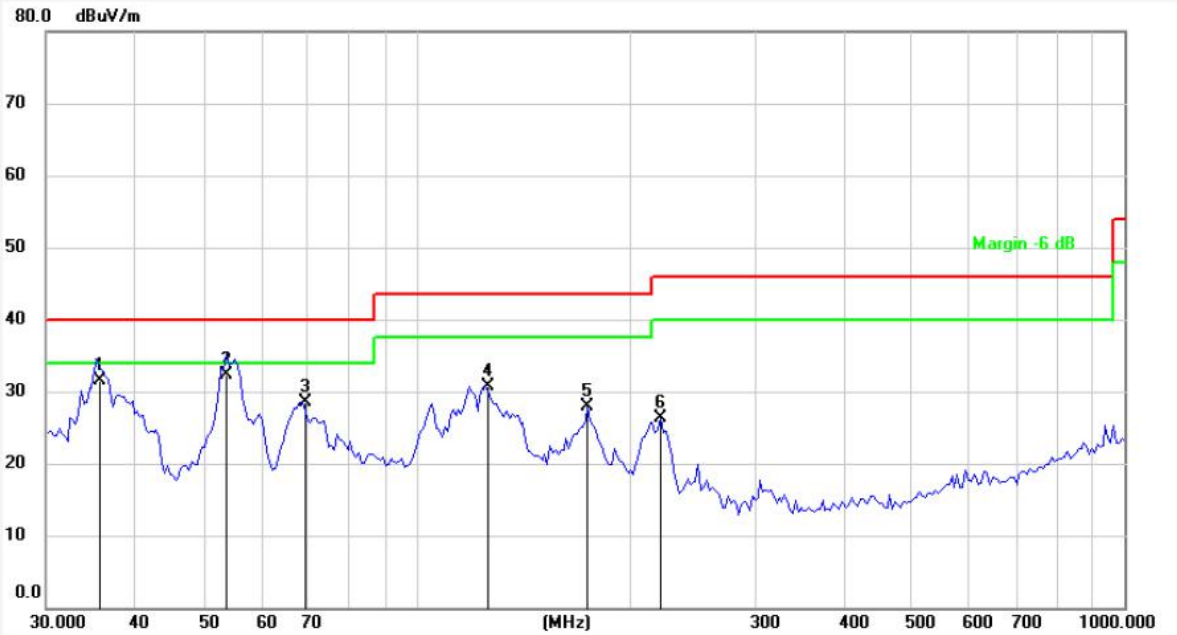
(Between 30MHz –1000 MHz)

Job No.:	**SZAWW180524006-01**	**Polarization:**	**Horizontal**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%RH**
Test Mode:	**Mode 4**	**Distance:**	**3m**



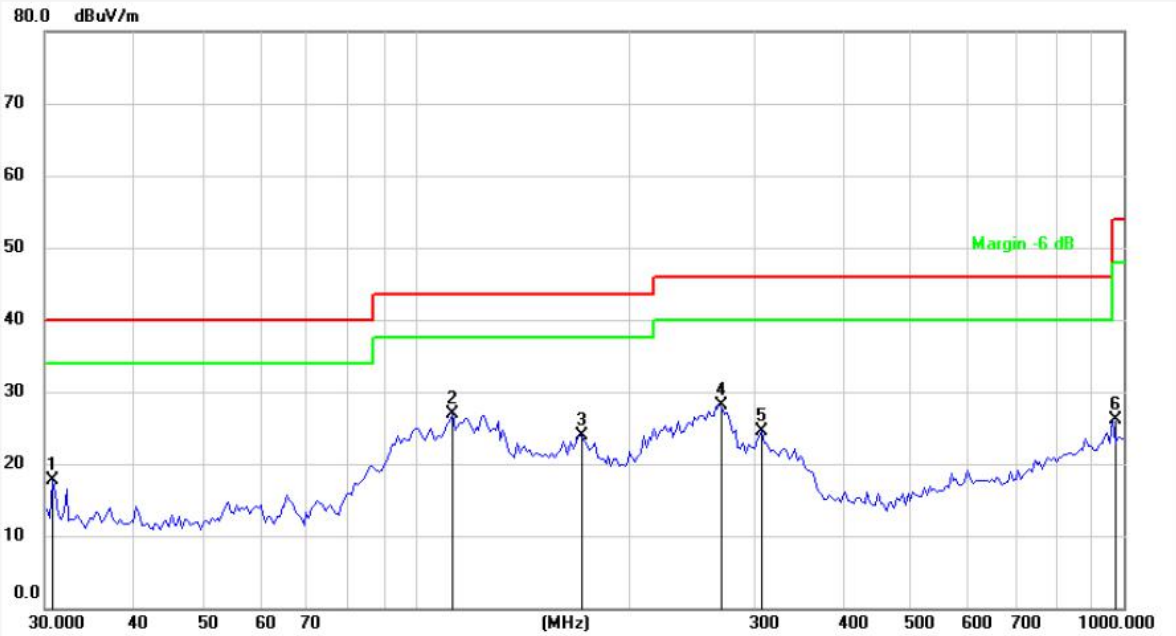
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	31.0706	36.46	-17.04	19.42	40.00	-20.58	QP	300	0	
2	53.9763	31.20	-15.94	15.26	40.00	-24.74	QP	300	56	
3	128.5630	43.81	-23.38	20.43	43.50	-23.07	QP	300	96	
4	173.2051	42.78	-21.23	21.55	43.50	-21.95	QP	300	168	
5	223.3415	44.66	-20.44	24.22	46.00	-21.78	QP	300	274	
6	965.5421	31.49	-6.71	24.78	54.00	-29.22	QP	300	360	

Job No.:	**SZAWW180524006-01**	**Polarization:**	**Vertical**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%RH**
Test Mode:	**Mode 4**	**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	35.4371	47.29	-15.83	31.46	40.00	-8.54	QP	300	0	
2	53.9763	47.25	-14.94	32.31	40.00	-7.69	QP	300	56	
3	68.9930	47.19	-18.65	28.54	40.00	-11.46	QP	300	153	
4	125.2260	48.60	-17.81	30.79	43.50	-12.71	QP	300	185	
5	174.7301	45.70	-17.80	27.90	43.50	-15.60	QP	300	254	
6	221.3921	41.97	-15.71	26.26	46.00	-19.74	QP	300	360	

Job No.:	**SZAWW180524006-01**	**Polarization:**	**Horizontal**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 240V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%RH**
Test Mode:	**Mode 4**	**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	30.7994	34.79	-17.05	17.74	40.00	-22.26	QP	300	0	
2	112.7218	48.71	-21.79	26.92	43.50	-16.58	QP	300	125	
3	171.6933	45.17	-21.21	23.96	43.50	-19.54	QP	300	183	
4	268.4853	47.66	-19.48	28.18	46.00	-17.82	QP	300	211	
5	308.9126	42.22	-17.74	24.48	46.00	-21.52	QP	300	281	
6	965.5421	32.79	-6.71	26.08	54.00	-27.92	QP	300	360	

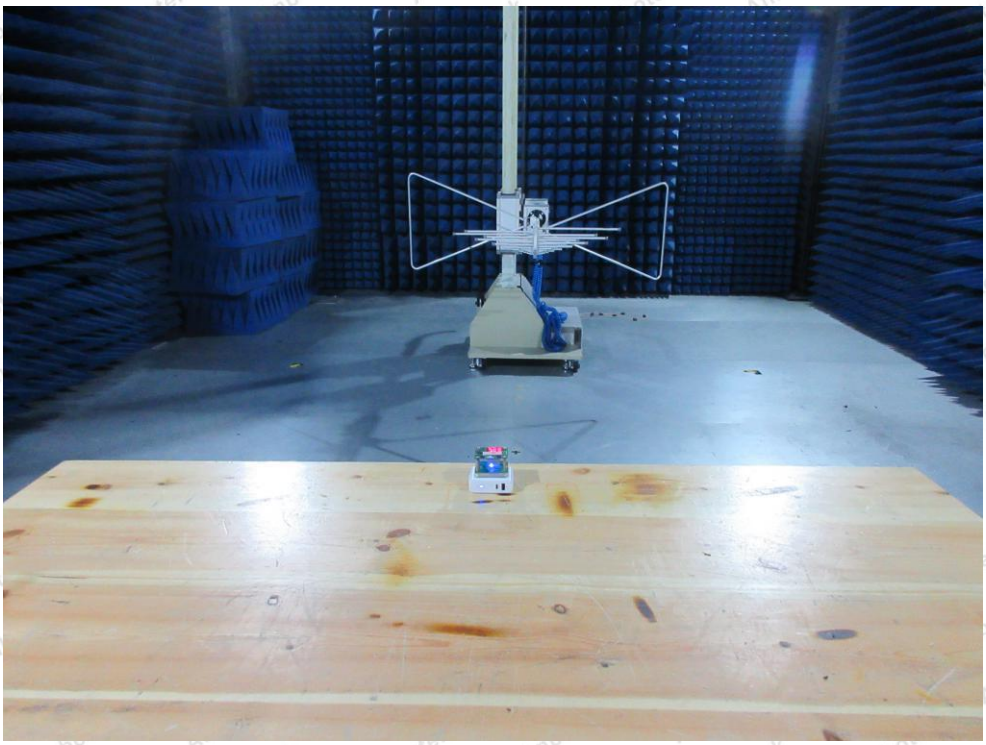
Job No.:	**SZAWW180524006-01**	**Polarization:**	**Vertical**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 240V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**24.4(C)/50%RH**
Test Mode:	**Mode 4**	**Distance:**	**3m**

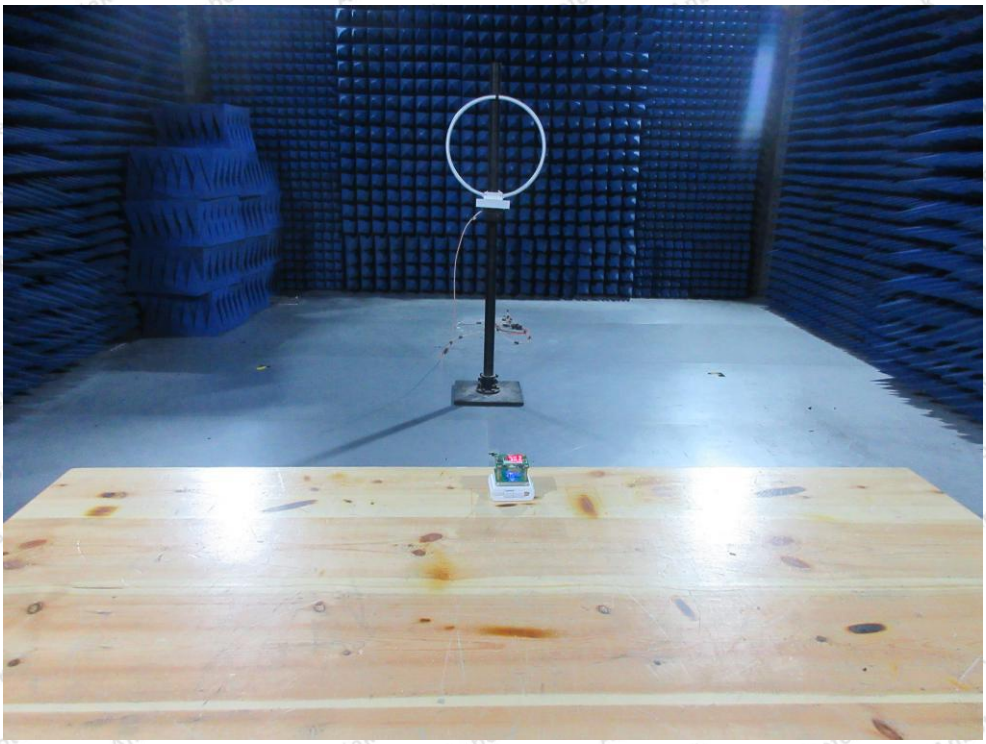
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	37.3509	48.54	-15.27	33.27	40.00	-6.73	QP	300	0	
2	54.9309	44.89	-14.97	29.92	40.00	-10.08	QP	300	85	
3	80.0806	44.84	-19.19	25.65	40.00	-14.35	QP	300	120	
4	101.4663	43.50	-14.62	28.88	43.50	-14.62	QP	300	185	
5	119.8555	53.75	-16.99	36.76	43.50	-6.74	QP	300	268	
6	223.3415	43.39	-15.61	27.78	46.00	-18.22	QP	300	360	

APPENDIX I -- TEST SETUP PHOTOGRAPH

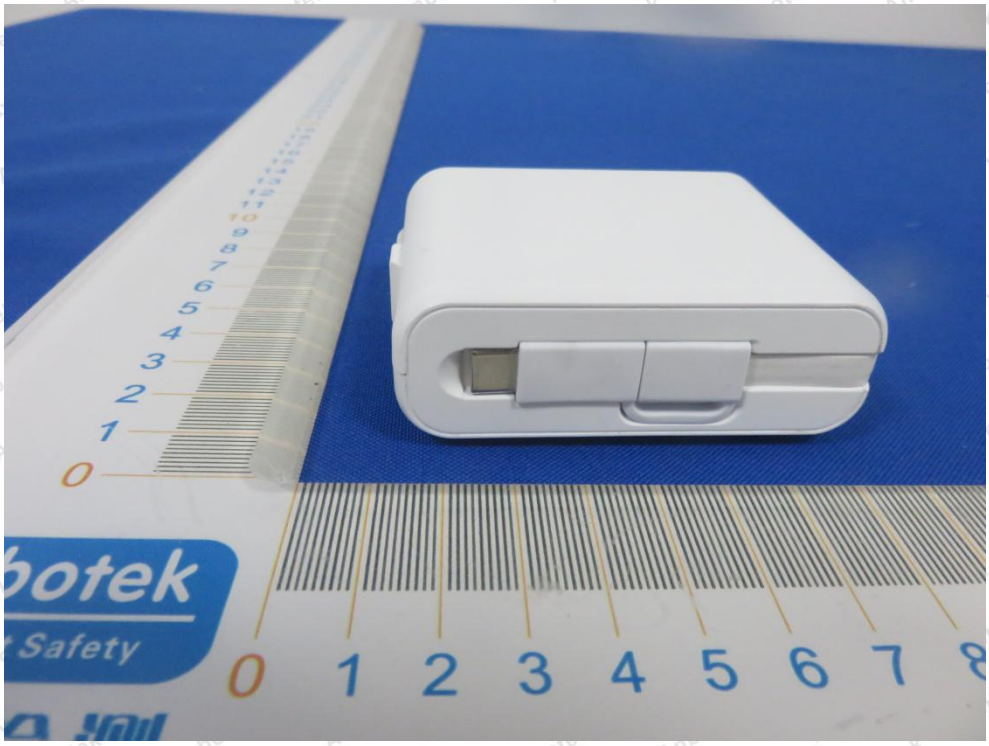
Photo of Conducted Emission Measurement

Photo of Radiation Emission Test





APPENDIX II -- EXTERNAL PHOTOGRAPH



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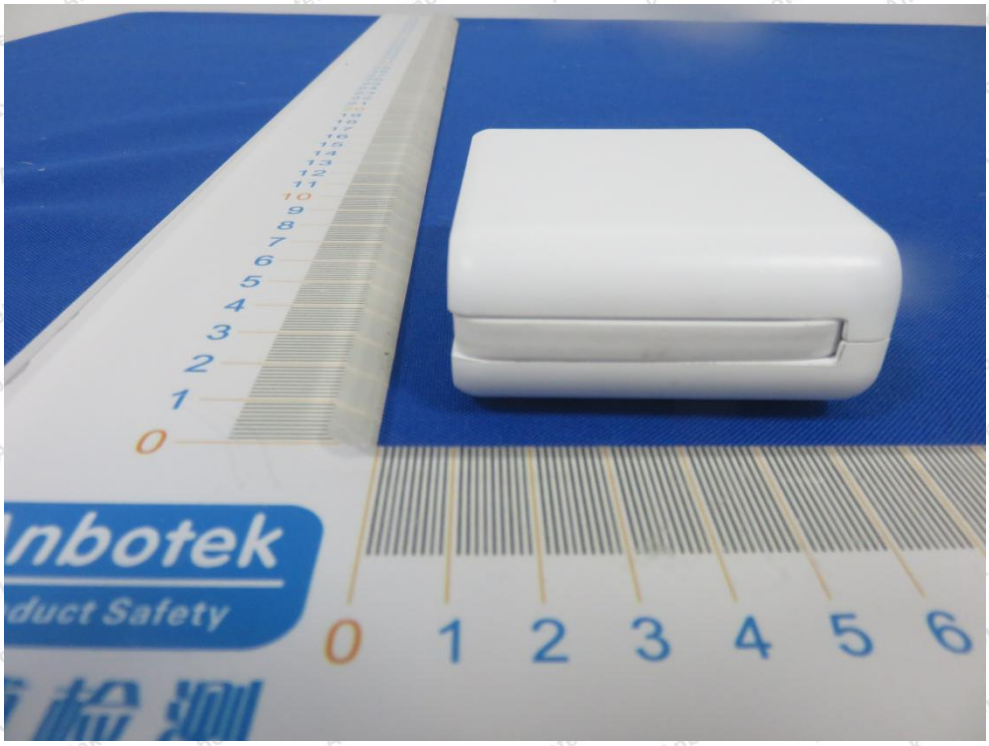
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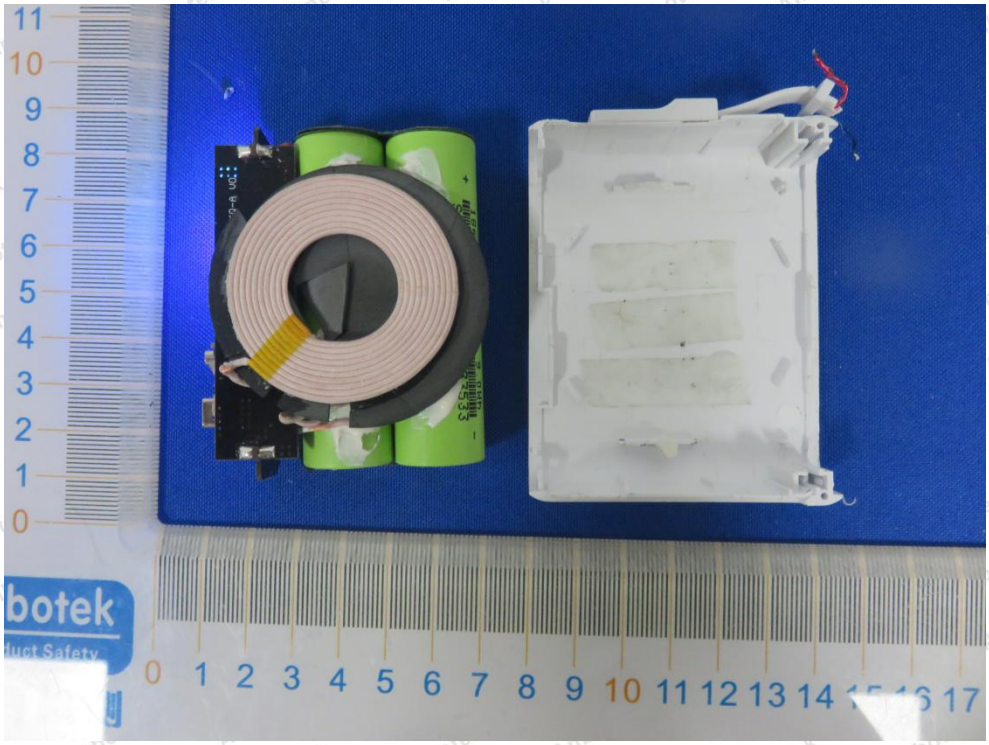
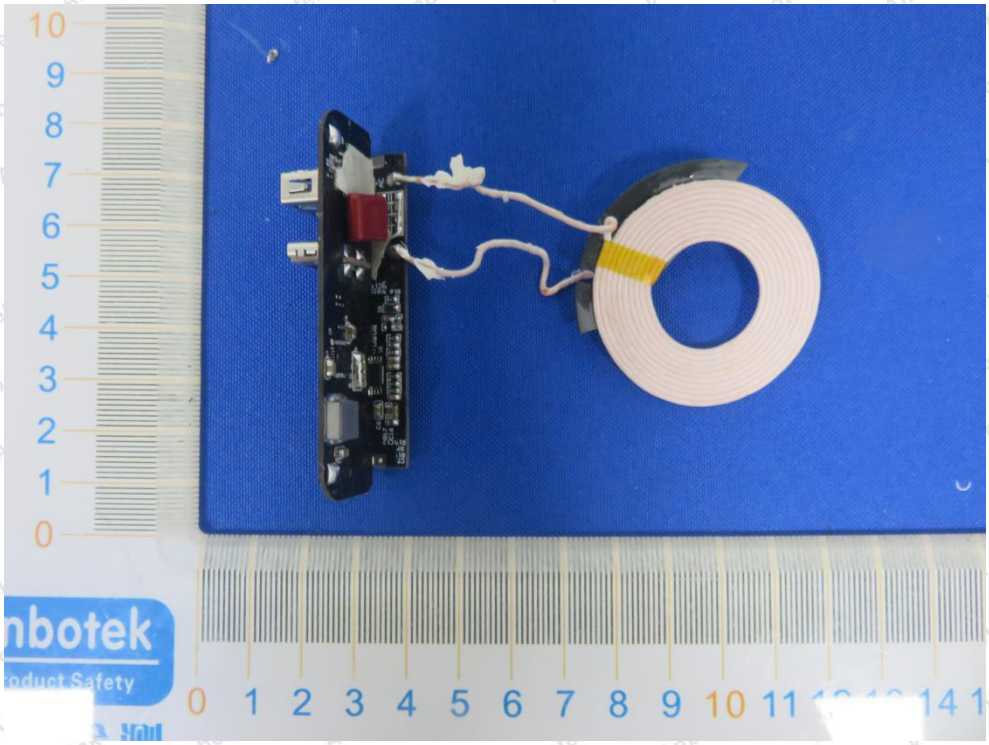
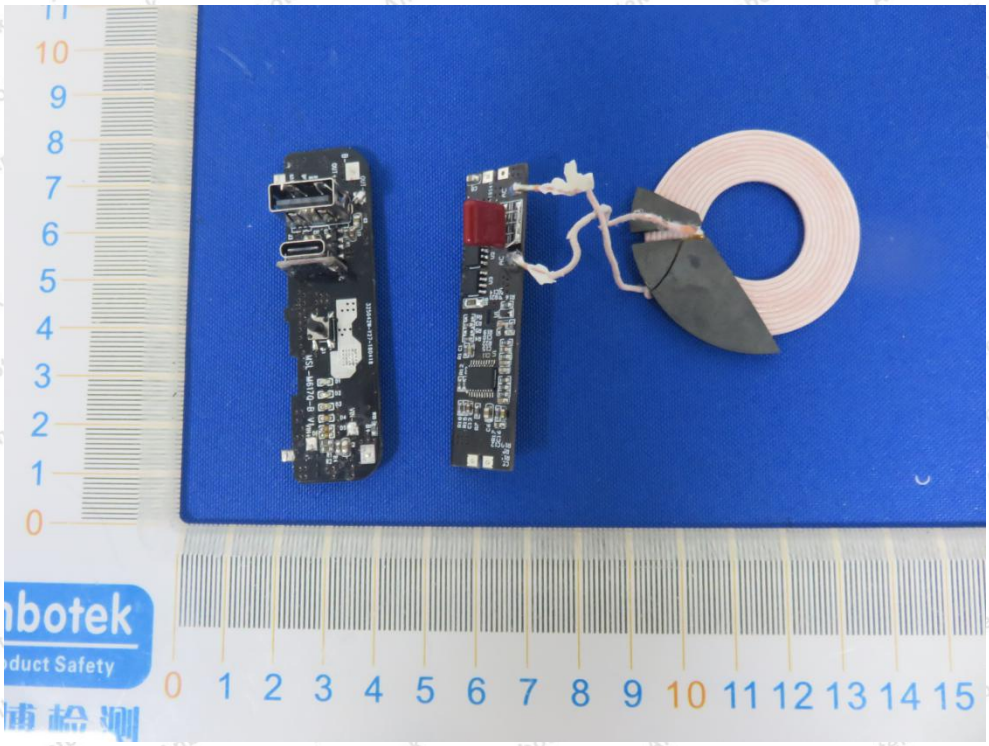
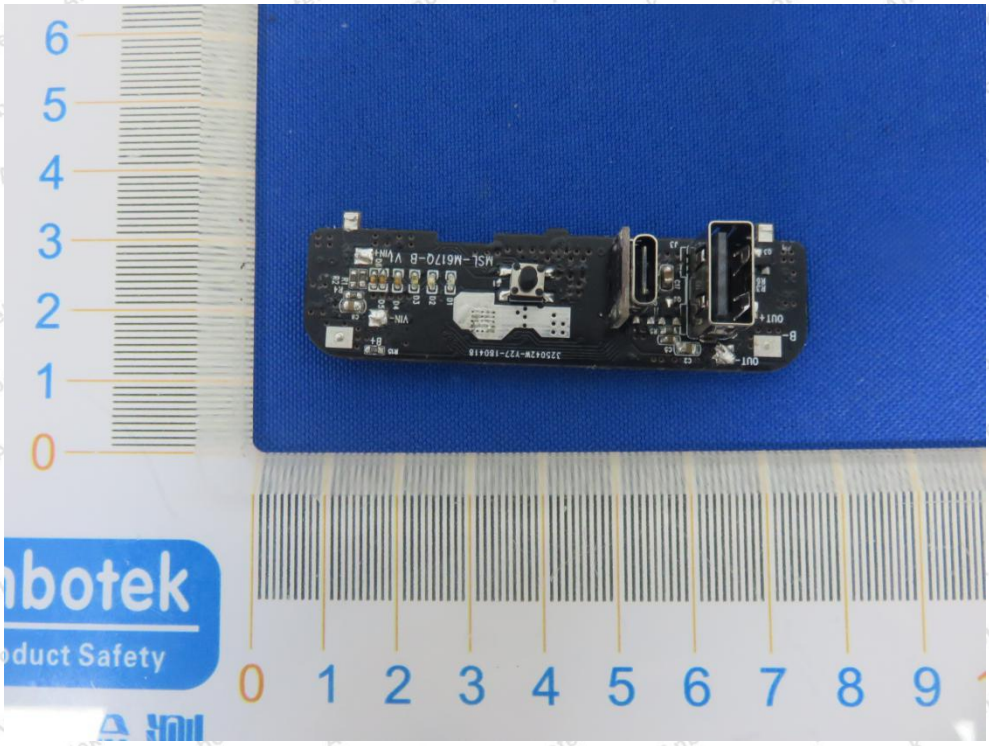
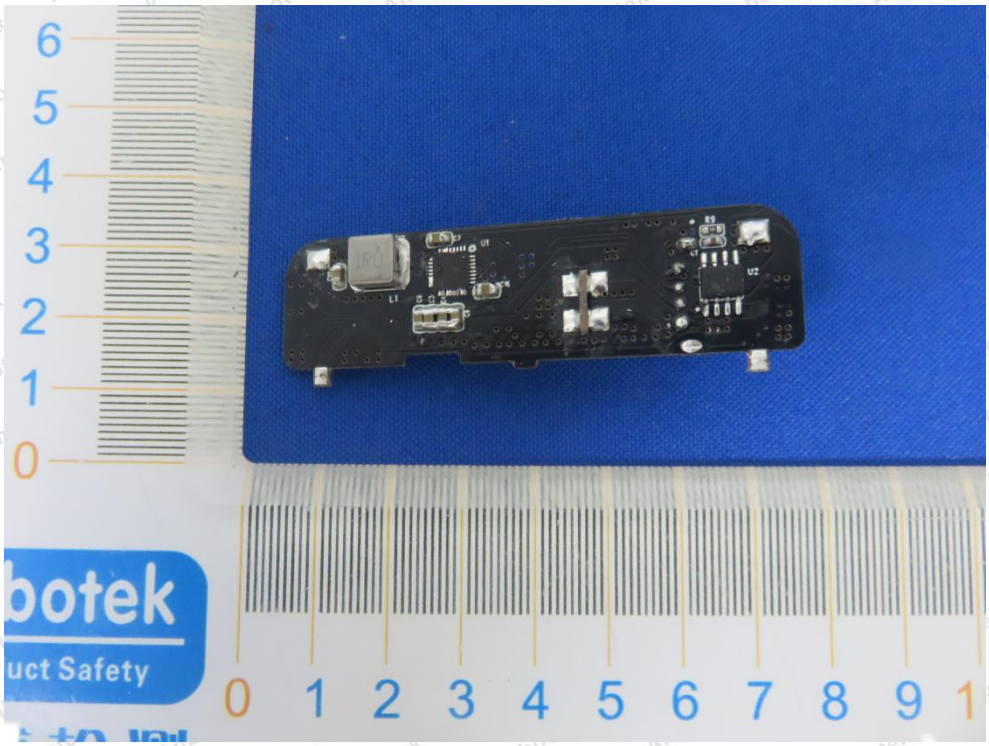
APPENDIX III -- INTERNAL PHOTOGRAPH

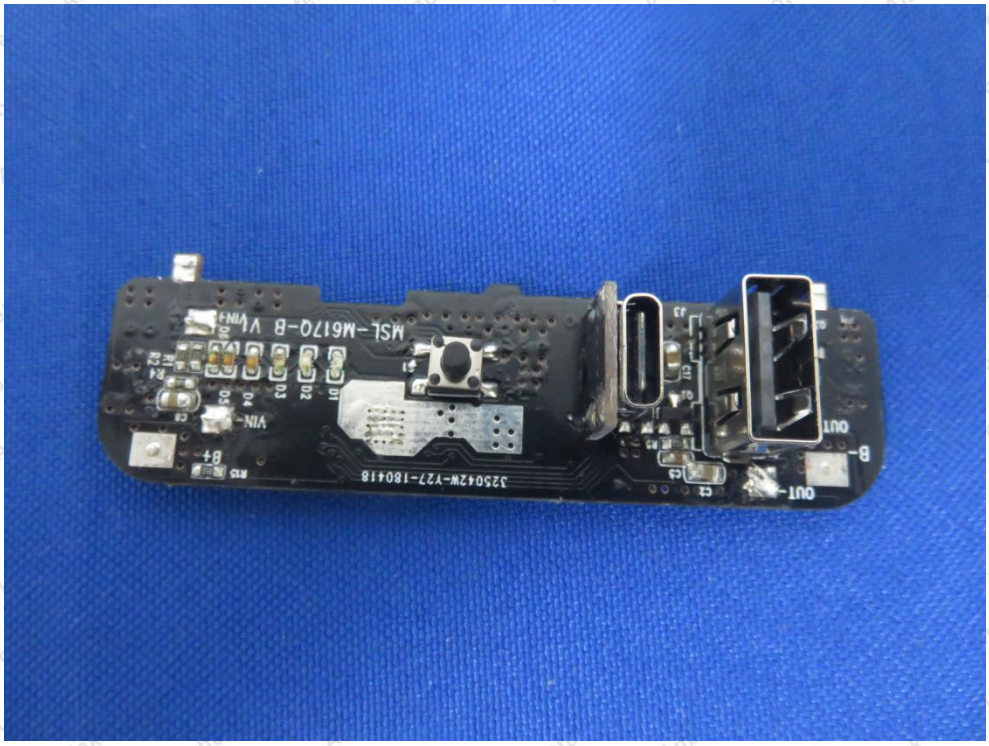








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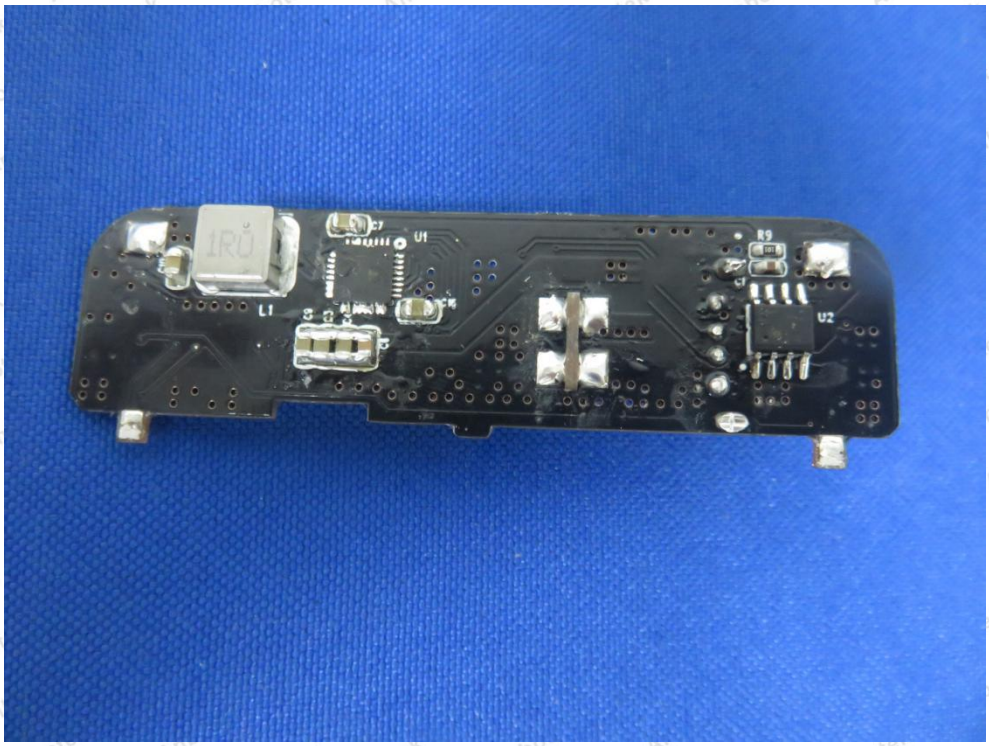
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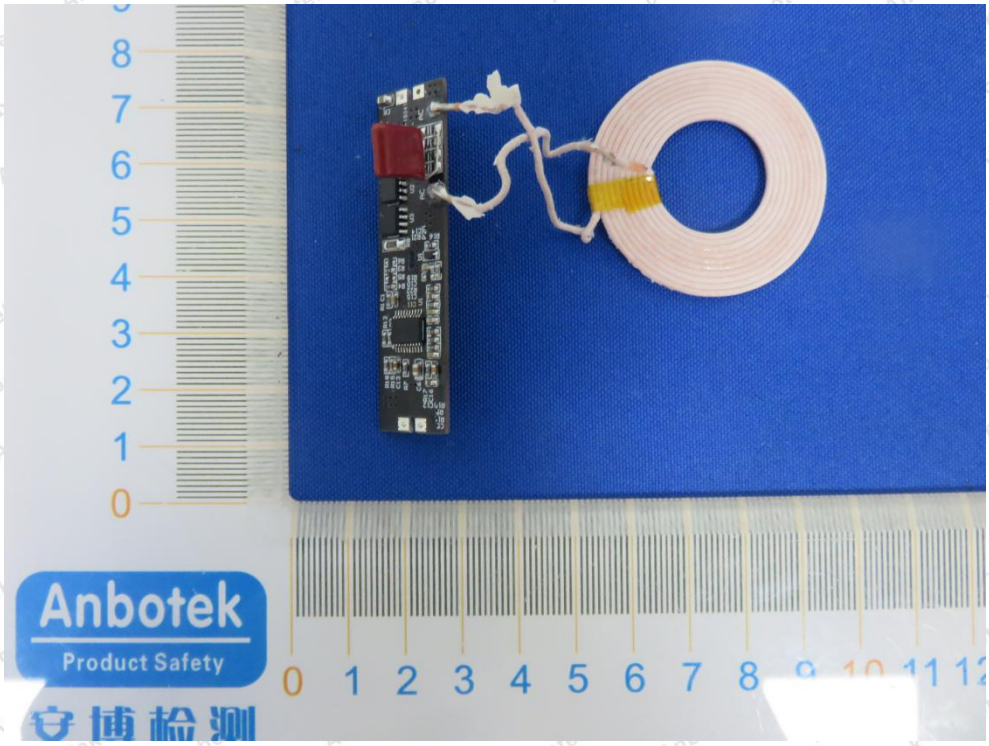

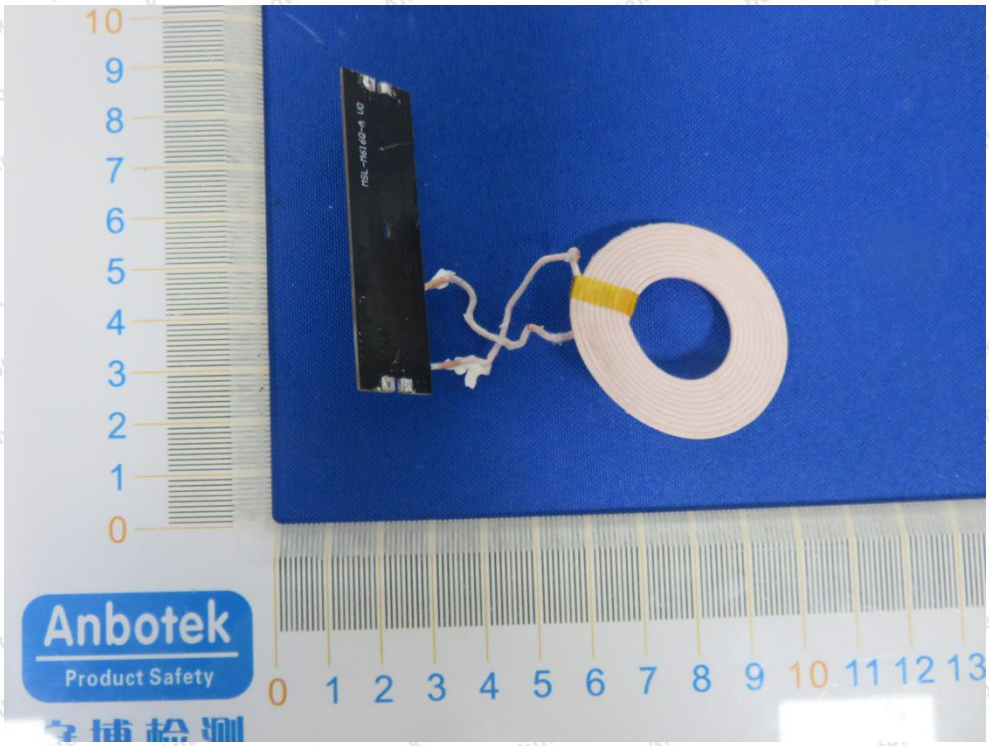

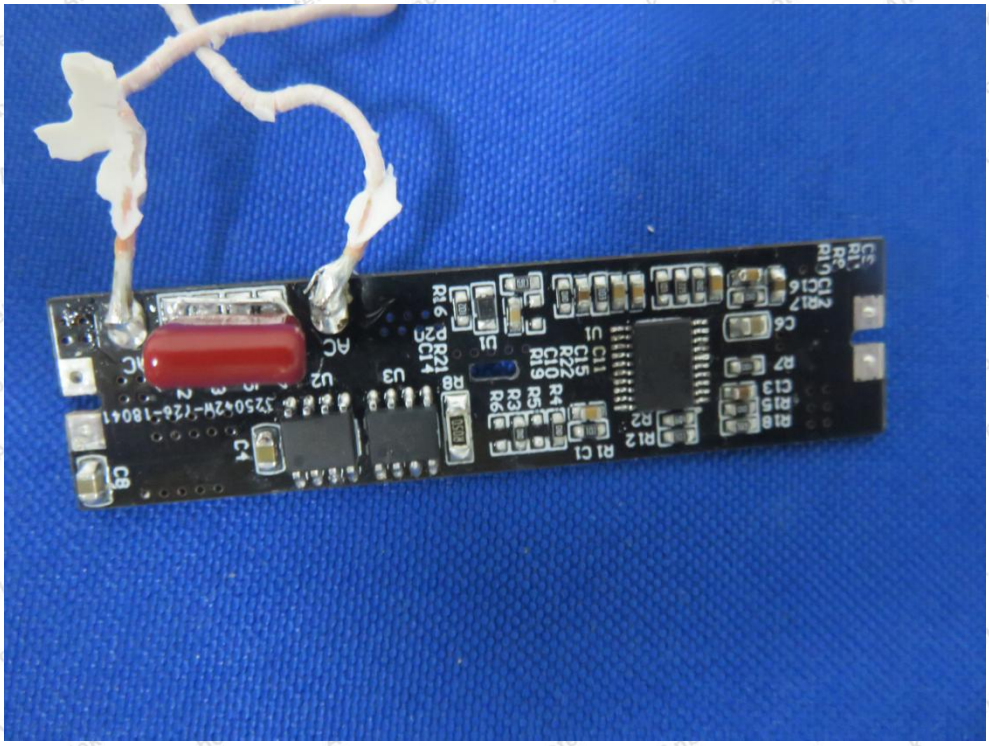

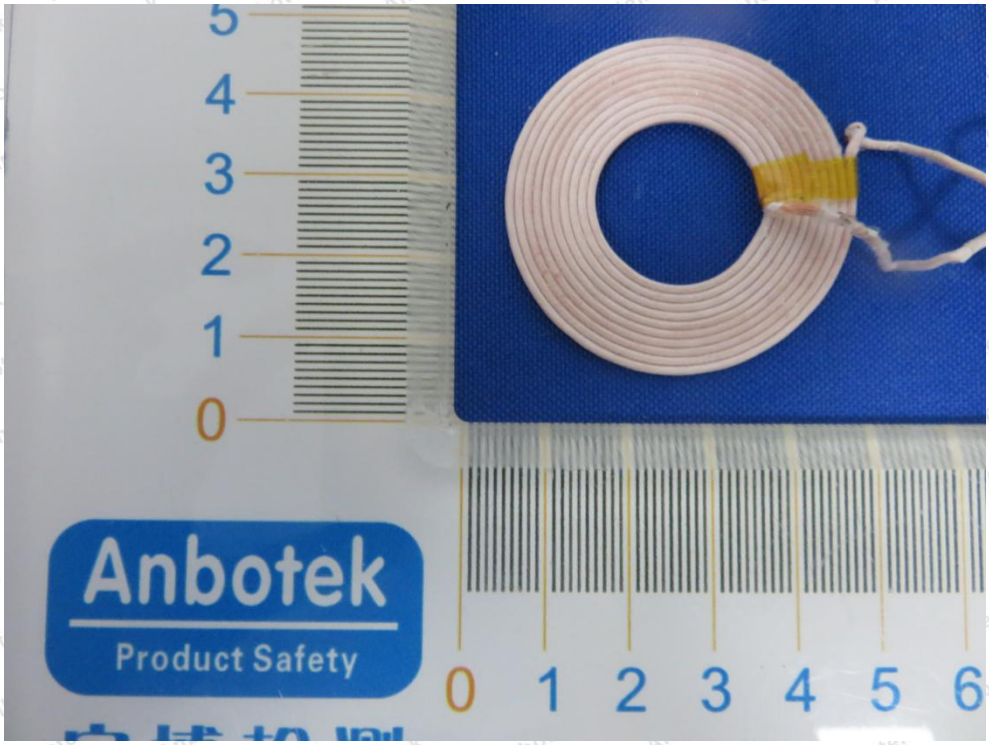
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Product Safety
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