

FCC TEST REPORT

Client Name : VELVETWIRE LLC

Address : 1200 Pacific Ave, Suite 350, Santa Cruz, California,
United States 95060

Product Name : Stickershock

Date : Apr. 01, 2019

Shenzhen Anbotech Compliance Laboratory Limited

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TEST REPORT

Applicant : VELVETWIRE LLC
Manufacturer : ShenZhen Tailhoo Technology Co., Ltd.
Product Name : Stickershock
Model No. : 100501
Trade Mark : Velvetwire®
Rating(s) : Input: DC 5V, 225mA(with DC 3.75V, 180mAh battery inside)

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 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 Receipt

Dec. 25, 2018

Date of Test

Dec. 25, 2018~Apr. 01, 2019

Prepared By



Oliay Yang

(Engineer / Oliay Yang)

Reviewer

Snowy Meng

(Supervisor / Snowy Meng)

Approved & Authorized Signer

Sally Zhang

(Manager / Sally Zhang)

1. General Information

1.1. Client Information

Applicant	:	VELVETWIRE LLC
Address	:	1200 Pacific Ave, Suite 350, Santa Cruz, California, United States 95060
Manufacturer	:	ShenZhen Tailhoo Technology Co., Ltd.
Address	:	Floor 1&2, Building 5, Tang East, Honggang industrial area, Baoan, Shenzhen
Factory	:	ShenZhen Tailhoo Technology Co., Ltd.
Address	:	Floor 1&2, Building 5, Tang East, Honggang industrial area, Baoan, Shenzhen

1.2. Description of Device (EUT)

Product Name	:	Stickershock
Model No.	:	100501
Trade Mark	:	Velvetwire®
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:	111~205KHz
	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	:	Manufacturer: ZTE M/N: STC-A205011000USBA-C S/N: 201202102100876 Input: 100-240V~ 50/60Hz, 0.3A Output: DC 5V, 1000mA
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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	Full load, wireless charger module

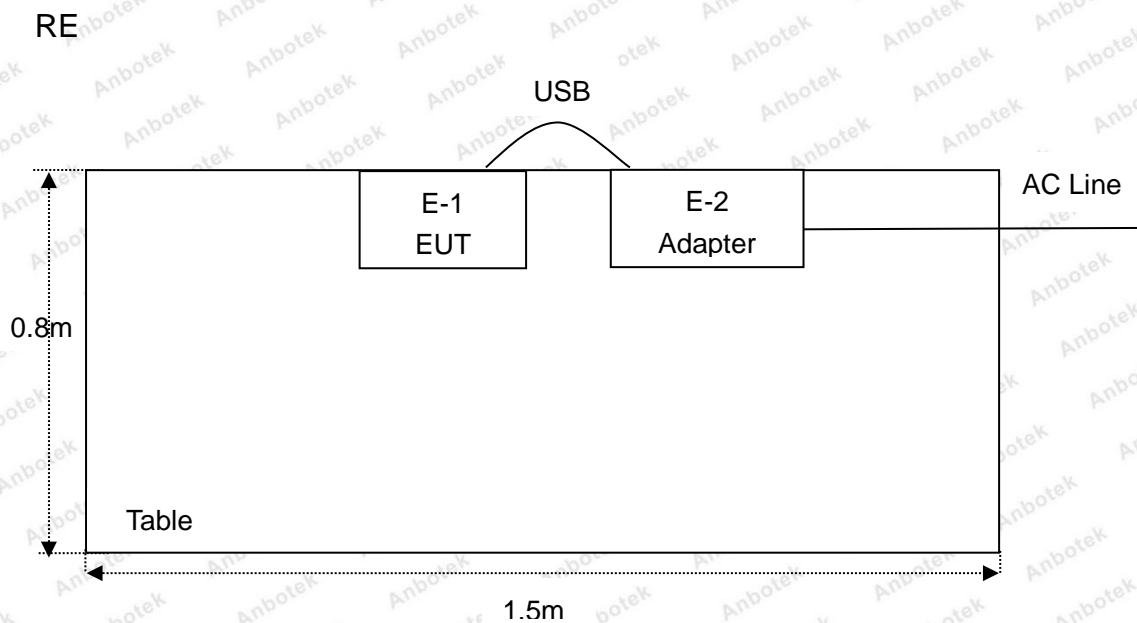
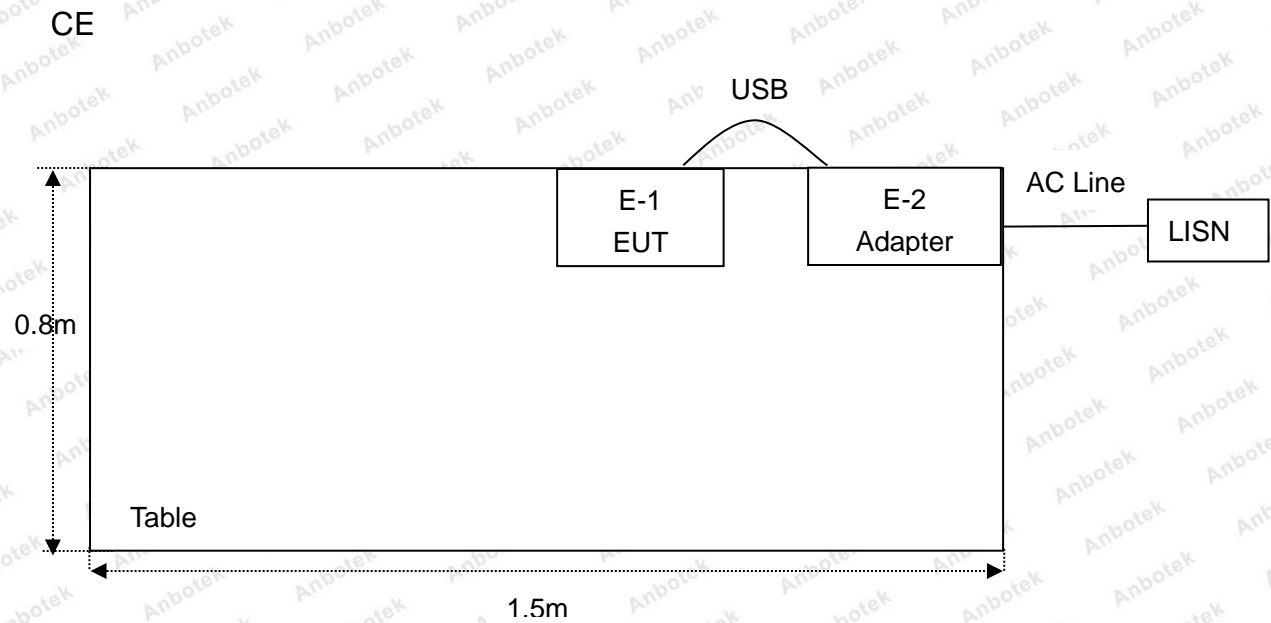
For Conducted Emission	
Final Test Mode	Description
Mode 1	Full load, wireless charger module

For Radiated Emission	
Final Test Mode	Description
Mode 1	Full load, wireless charger module

Note: (1)Test channel is 0.1360MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load) was recorded in the 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	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	BK1G18G30 D	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-KHWS80 B	N/A	Nov. 01, 2018	1 Year

1.7. Measurement Uncertainty

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

1.8. 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

Shenzhen Anbotech 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

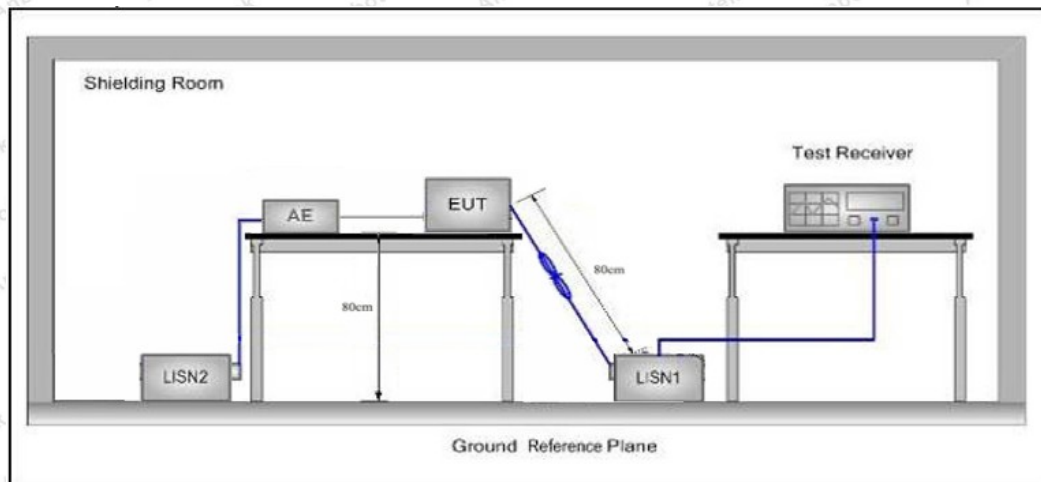
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

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.

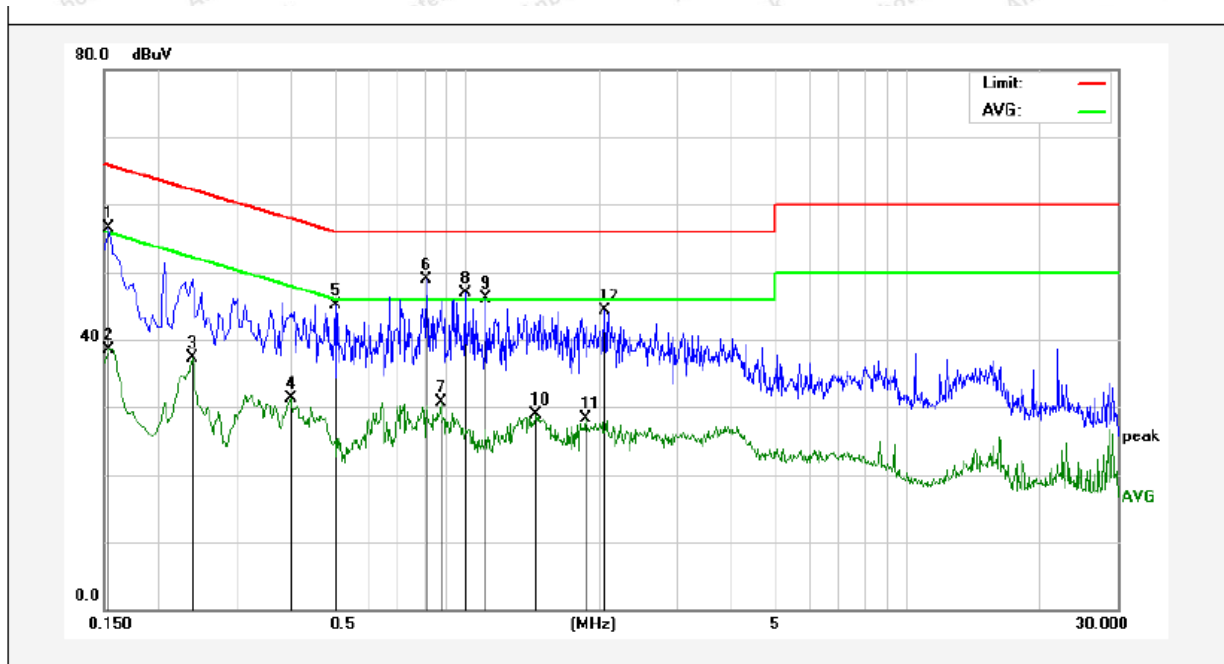
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

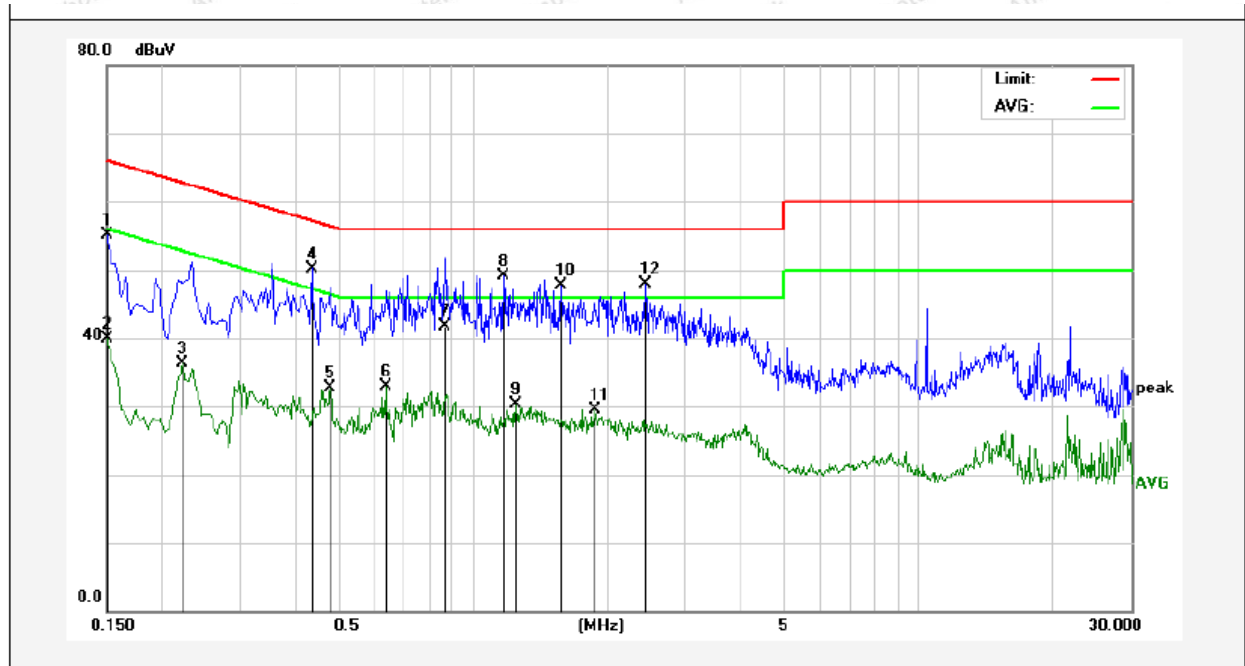
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 24.3°C Hum.: 58%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1539	36.65	19.90	56.55	65.78	-9.23	QP	
2	0.1539	18.69	19.90	38.59	55.78	-17.19	AVG	
3	0.2380	17.32	19.89	37.21	52.16	-14.95	AVG	
4	0.3980	11.37	19.93	31.30	47.89	-16.59	AVG	
5	0.5020	25.11	19.98	45.09	56.00	-10.91	QP	
6	0.8100	28.81	20.07	48.88	56.00	-7.12	QP	
7	0.8740	10.70	20.09	30.79	46.00	-15.21	AVG	
8	0.9940	26.69	20.12	46.81	56.00	-9.19	QP	
9	1.1060	25.92	20.12	46.04	56.00	-9.96	QP	
10	1.4380	8.81	20.13	28.94	46.00	-17.06	AVG	
11	1.8620	8.09	20.14	28.23	46.00	-17.77	AVG	
12	2.0579	24.25	20.14	44.39	56.00	-11.61	QP	

Conducted Emission Test Data

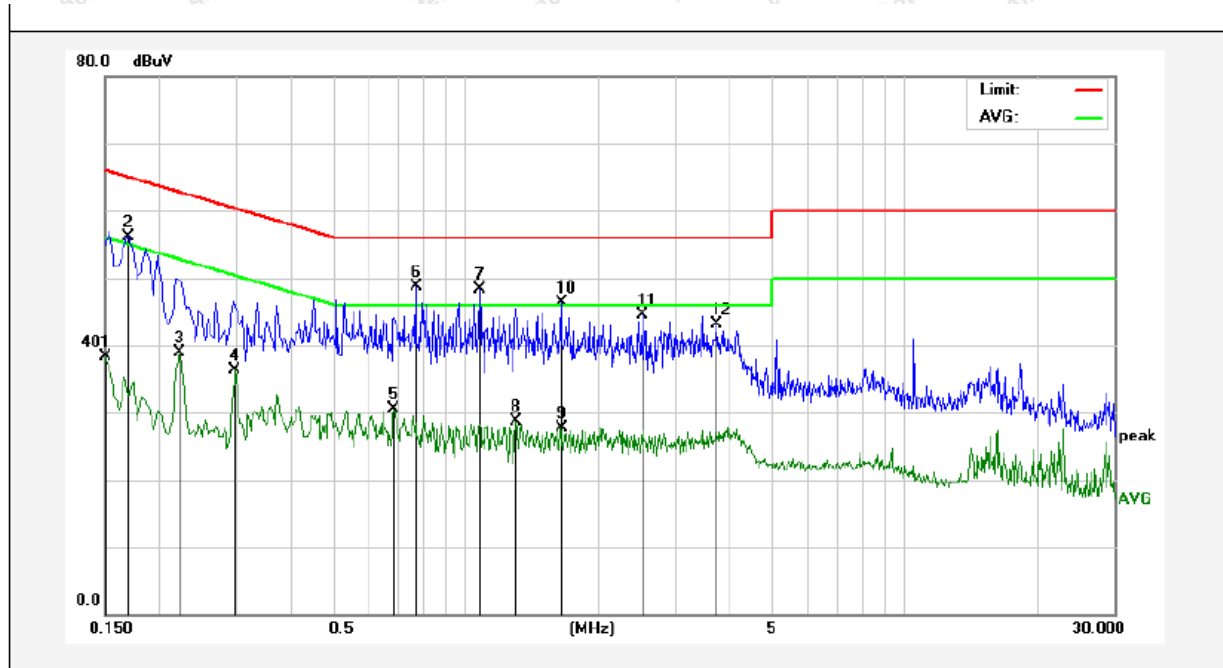
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.3°C Hum.: 58%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	35.26	19.90	55.16	65.99	-10.83	QP	
2	0.1500	19.95	19.90	39.85	55.99	-16.14	AVG	
3	0.2220	16.35	19.89	36.24	52.74	-16.50	AVG	
4	0.4340	30.25	19.95	50.20	57.18	-6.98	QP	
5	0.4780	12.68	19.97	32.65	46.37	-13.72	AVG	
6	0.6340	12.92	20.02	32.94	46.00	-13.06	AVG	
7	0.8660	21.54	20.08	41.62	56.00	-14.38	QP	
8	1.1700	28.96	20.12	49.08	56.00	-6.92	QP	
9	1.2460	10.18	20.12	30.30	46.00	-15.70	AVG	
10	1.5700	27.60	20.13	47.73	56.00	-8.27	QP	
11	1.8740	9.44	20.14	29.58	46.00	-16.42	AVG	
12	2.4420	27.68	20.15	47.83	56.00	-8.17	QP	

Conducted Emission Test Data

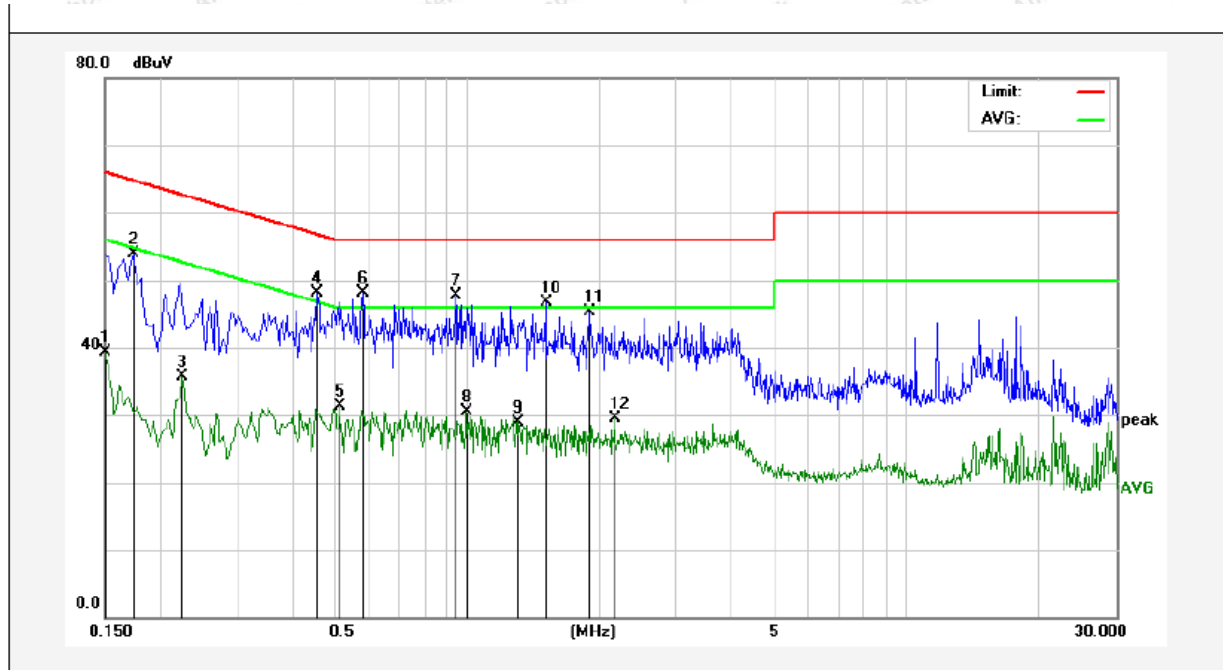
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 24.3°C Hum.: 58%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1500	18.34	19.90	38.24	55.99	-17.75	AVG	
2	0.1700	36.30	19.90	56.20	64.96	-8.76	QP	
3	0.2220	19.11	19.89	39.00	52.74	-13.74	AVG	
4	0.2980	16.38	19.89	36.27	50.30	-14.03	AVG	
5	0.6860	10.48	20.04	30.52	46.00	-15.48	AVG	
6	0.7700	28.57	20.06	48.63	56.00	-7.37	QP	
7	1.0740	28.25	20.12	48.37	56.00	-7.63	QP	
8	1.2980	8.57	20.13	28.70	46.00	-17.30	AVG	
9	1.6380	7.61	20.13	27.74	46.00	-18.26	AVG	
10	1.6460	26.11	20.13	46.24	56.00	-9.76	QP	
11	2.5140	24.30	20.15	44.45	56.00	-11.55	QP	
12	3.7380	22.88	20.17	43.05	56.00	-12.95	QP	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 24.3°C Hum.: 58%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	19.42	19.90	39.32	55.99	-16.67	AVG	
2	0.1740	34.08	19.90	53.98	64.76	-10.78	QP	
3	0.2260	15.81	19.89	35.70	52.59	-16.89	AVG	
4	0.4580	28.09	19.96	48.05	56.73	-8.68	QP	
5	0.5140	11.33	19.98	31.31	46.00	-14.69	AVG	
6	0.5820	28.10	20.00	48.10	56.00	-7.90	QP	
7	0.9460	27.58	20.11	47.69	56.00	-8.31	QP	
8	0.9980	10.29	20.12	30.41	46.00	-15.59	AVG	
9	1.3140	8.87	20.13	29.00	46.00	-17.00	AVG	
10	1.5140	26.48	20.13	46.61	56.00	-9.39	QP	
11	1.9020	25.13	20.14	45.27	56.00	-10.73	QP	
12	2.1700	9.41	20.14	29.55	46.00	-16.45	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

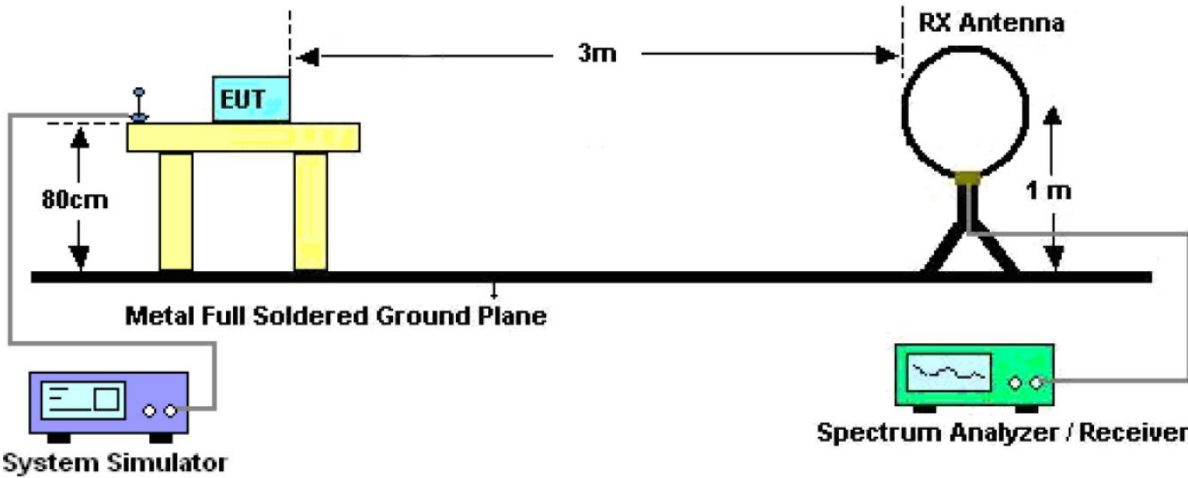


Figure 1. Below 30MHz

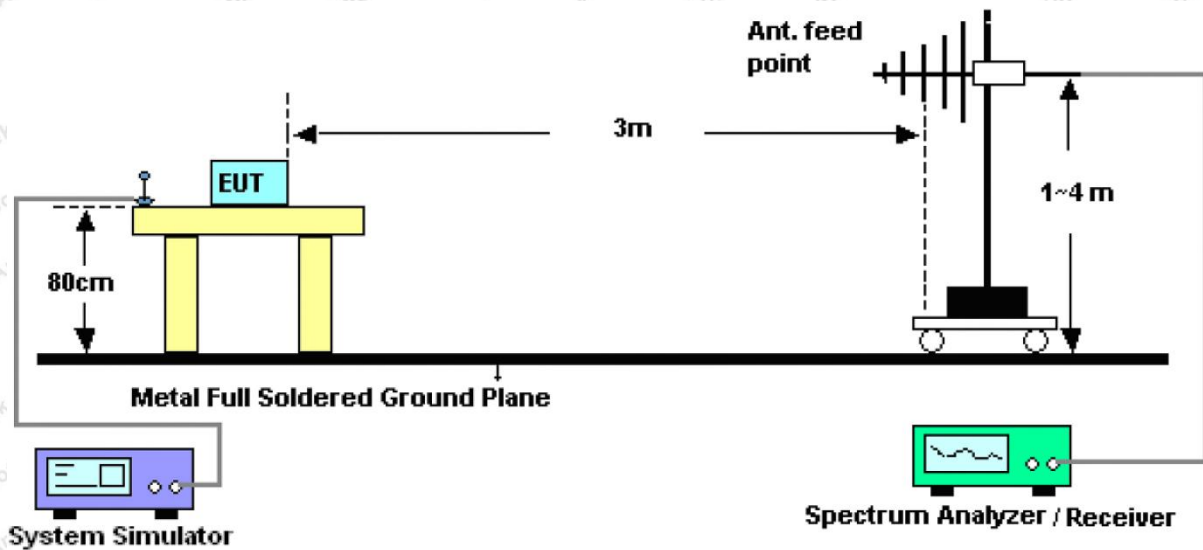


Figure 2. 30MHz to 1GHz

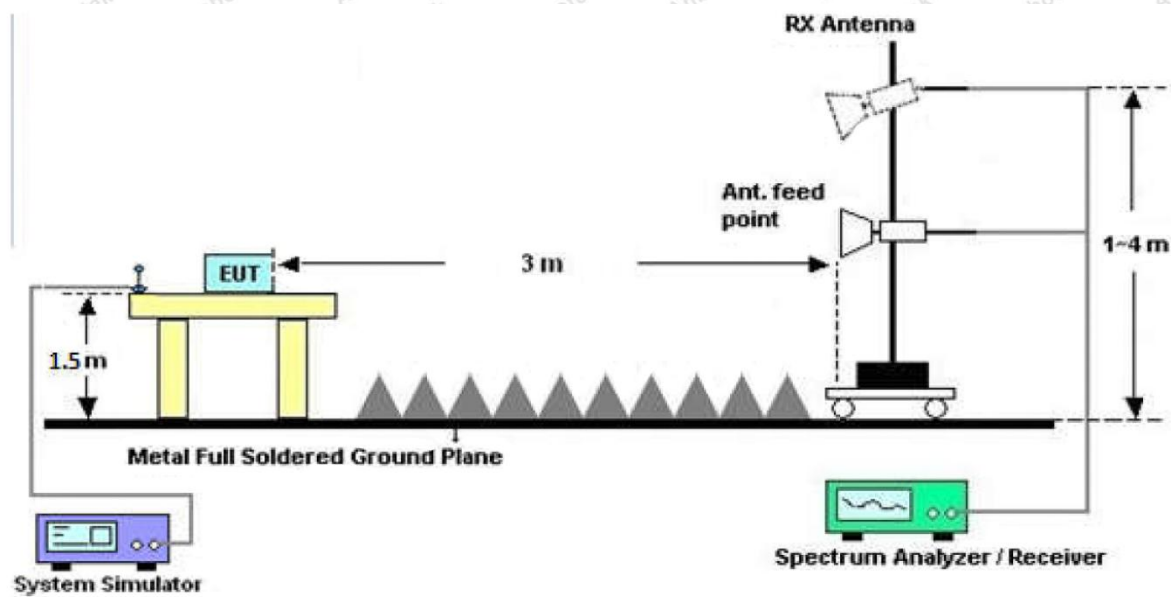


Figure 3. Above 1 GHz

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.

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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

Note: The data is in TX mode, and this is the worst mode.

Test Results

(Between 9KHz – 30MHz)

Job No.: SZAWW181224002-02

Standard: FCC PART15 C_3m

Power Source:

AC 120V, 60Hz for adapter

Test item: Radiation Test

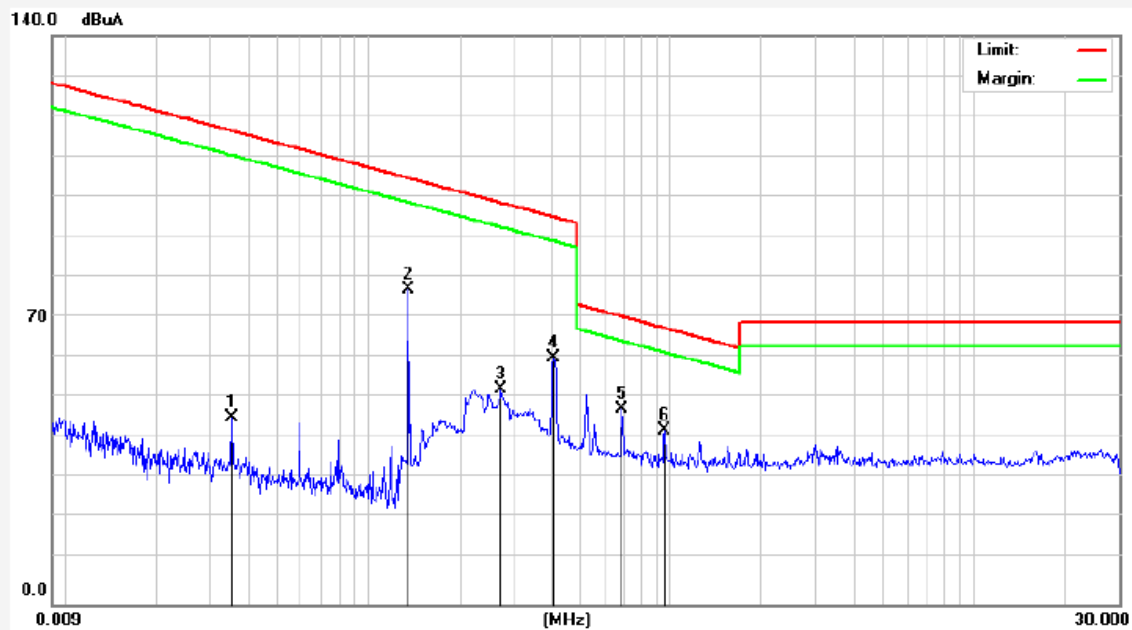
Temp.(C)/Hum.(%RH):

24.7°C/51%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)
0.0352	43.33	19.28	2.53	0	65.14	136.55	-71.41	Peak	24
0.0352	24.14	19.28	2.53	0	45.95	116.55	-70.60	AV	24
0.1360	67.77	19.32	2.55	0	89.64	124.87	-35.23	Peak	90
0.1360	55.67	19.32	2.55	0	77.54	104.87	-27.33	AV	90
0.2740	51.56	19.36	2.62	0	73.54	118.82	-45.28	Peak	254
0.2740	31.09	19.36	2.62	0	53.07	98.82	-45.75	AV	254
0.4099	53.20	19.38	2.63	0	75.21	115.34	-40.13	Peak	110
0.4099	38.55	19.38	2.63	0	60.56	95.34	-34.78	AV	110
0.6899	25.96	19.40	2.64	0	48.00	70.83	-22.83	QP	32
0.9499	20.90	19.50	2.65	0	43.05	68.05	-25.00	QP	180

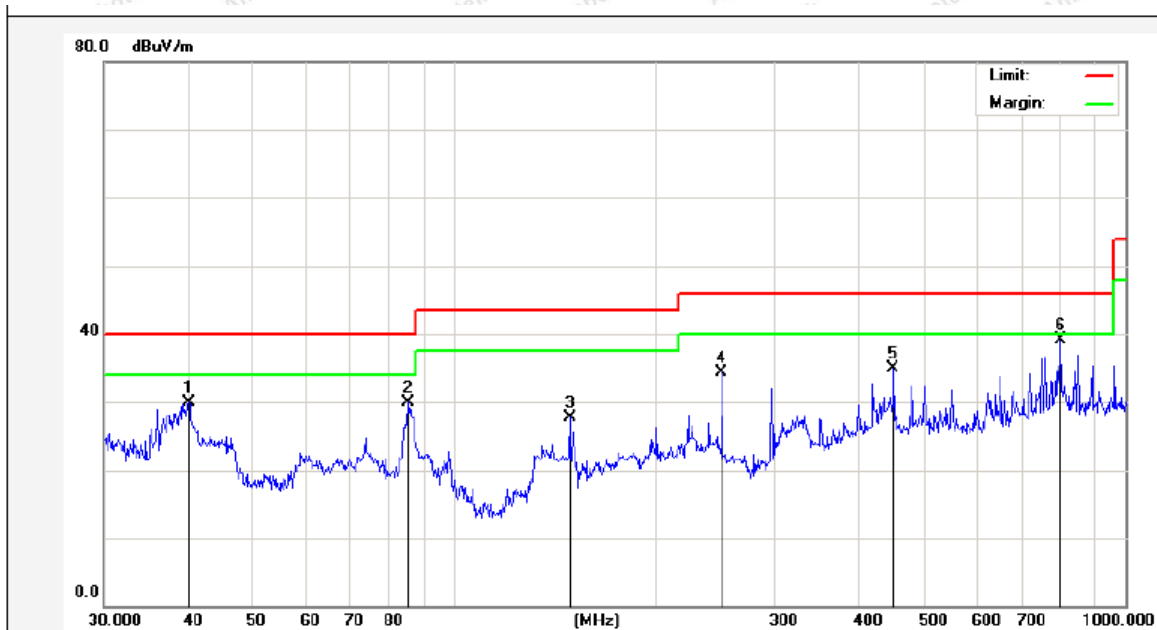
Remark: According to FCC PART 15.209 (d), the emission limits for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

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(Between 30MHz -1000 MHz)

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Job No.: SZAWW181224002-02 Polarization: Horizontal
Standard: FCC PART15 C_3m Power Source: AC 120V, 60Hz for adapter
Test item: Radiation Test Temp.(C)/Hum.(%RH): 24.3°C/55%RH
Test Mode: Mode 1 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	40.1347	40.28	-10.42	29.86	40.00	-10.14	QP	300	33	
2	85.2980	50.38	-20.49	29.89	40.00	-10.11	QP	300	85	
3	148.4410	51.00	-23.36	27.64	43.50	-15.86	QP	300	342	
4	250.3011	52.95	-18.56	34.39	46.00	-11.61	QP	300	241	
5	451.1349	47.15	-12.15	35.00	46.00	-11.00	QP	300	168	
6	801.7862	45.72	-6.54	39.18	46.00	-6.82	QP	300	53	



Job No.: SZAWW181224002-02

Polarization:

Vertical

Standard: FCC PART15 C_3m

Power Source:

AC 120V, 60Hz for adapter

Test item: Radiation Test

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

24.3℃/55%RH

Test Mode: Mode 1

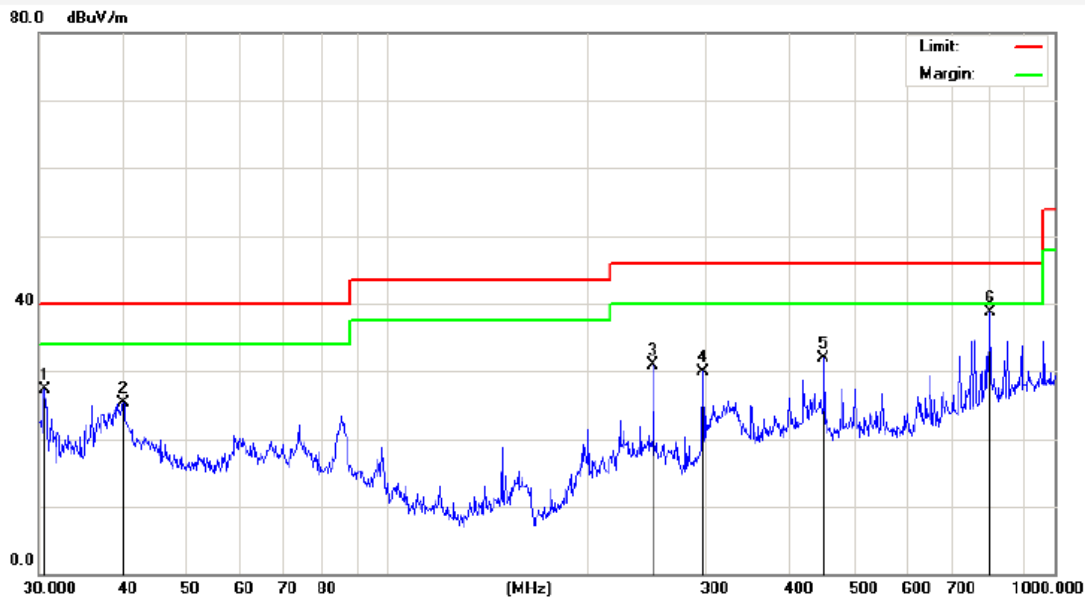
Distance:

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	39.8541	46.97	-10.49	36.48	40.00	-3.52	QP	300	0	
2	68.3907	50.21	-18.93	31.28	40.00	-8.72	QP	300	35	
3	250.3011	52.43	-14.04	38.39	46.00	-7.61	QP	300	88	
4	297.2241	52.81	-14.76	38.05	46.00	-7.95	QP	300	175	
5	480.5276	45.83	-11.53	34.30	46.00	-11.70	QP	300	281	
6	625.0779	47.40	-9.05	38.35	46.00	-7.65	QP	300	336	

Job No.:	SZAWW181224002-02	Polarization:	Horizontal
Standard:	FCC PART15 C_3m	Power Source:	AC 240V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3°C/55%RH
Test Mode:	Mode 1	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	30.6379	43.85	-16.61	27.24	40.00	-12.76	QP	300	12	
2	40.1347	35.78	-10.42	25.36	40.00	-14.64	QP	300	41	
3	250.3012	49.45	-18.56	30.89	46.00	-15.11	QP	300	227	
4	297.2241	47.64	-17.76	29.88	46.00	-16.12	QP	300	304	
5	451.1350	44.15	-12.15	32.00	46.00	-14.00	QP	300	247	
6	801.7863	45.22	-6.54	38.68	46.00	-7.32	QP	300	330	

Job No.: SZAWW181224002-02

Polarization:

Vertical

Standard: FCC PART15 C_3m

Power Source:

AC 240V, 60Hz for adapter

Test item: Radiation Test

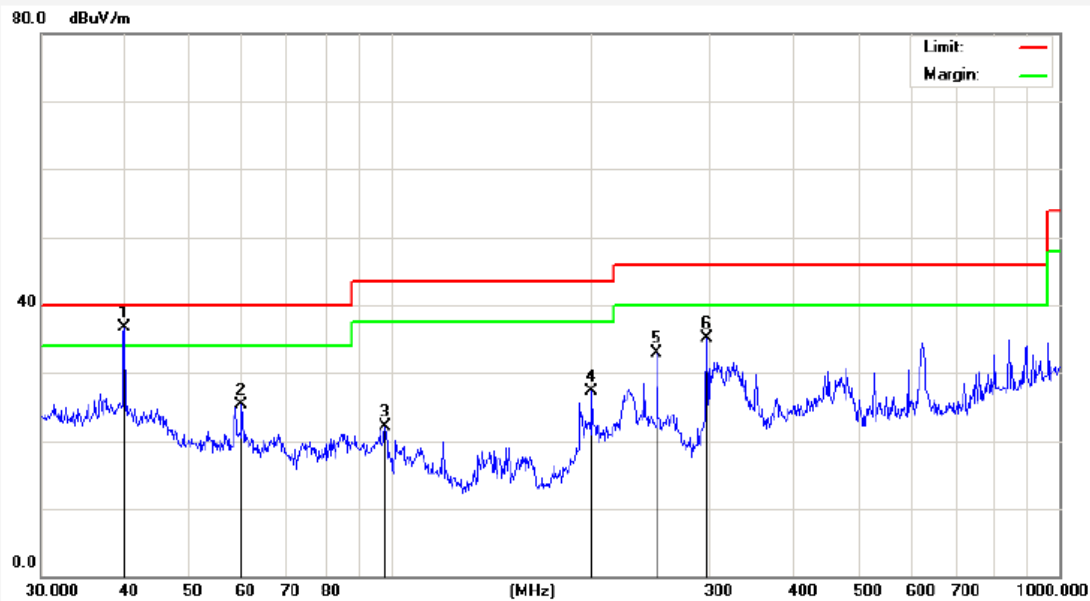
Temp.(C)/Hum.(%RH):

24.3°C/55%RH

Test Mode: Mode 1

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	39.9942	47.04	-10.37	36.67	40.00	-3.33	QP	300	1	
2	59.8588	40.72	-15.38	25.34	40.00	-14.66	QP	300	117	
3	98.1419	38.00	-15.86	22.14	43.50	-21.36	QP	300	235	
4	199.9856	43.23	-15.87	27.36	43.50	-16.14	QP	300	181	
5	250.3012	46.93	-14.04	32.89	46.00	-13.11	QP	300	338	
6	297.2241	49.81	-14.76	35.05	46.00	-10.95	QP	300	314	

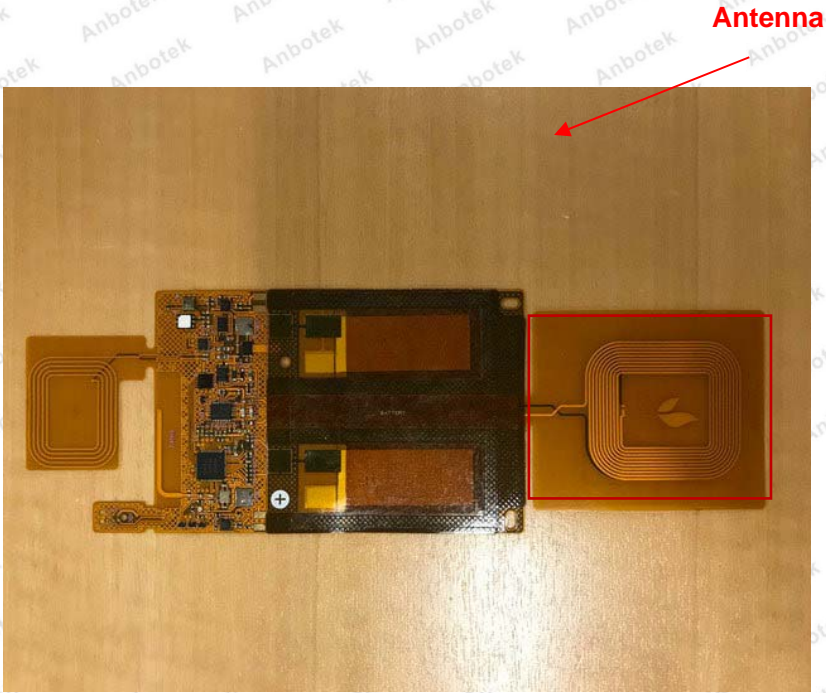
5. Antenna Requirement

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 antenna jack or electrical connector is prohibited.

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.

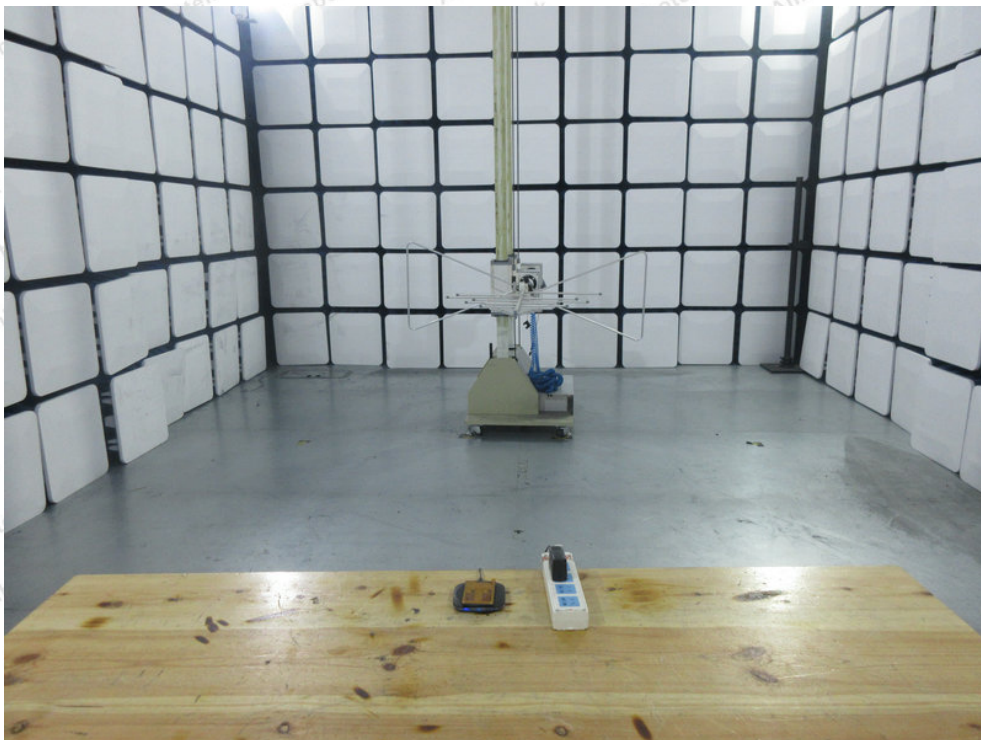


APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

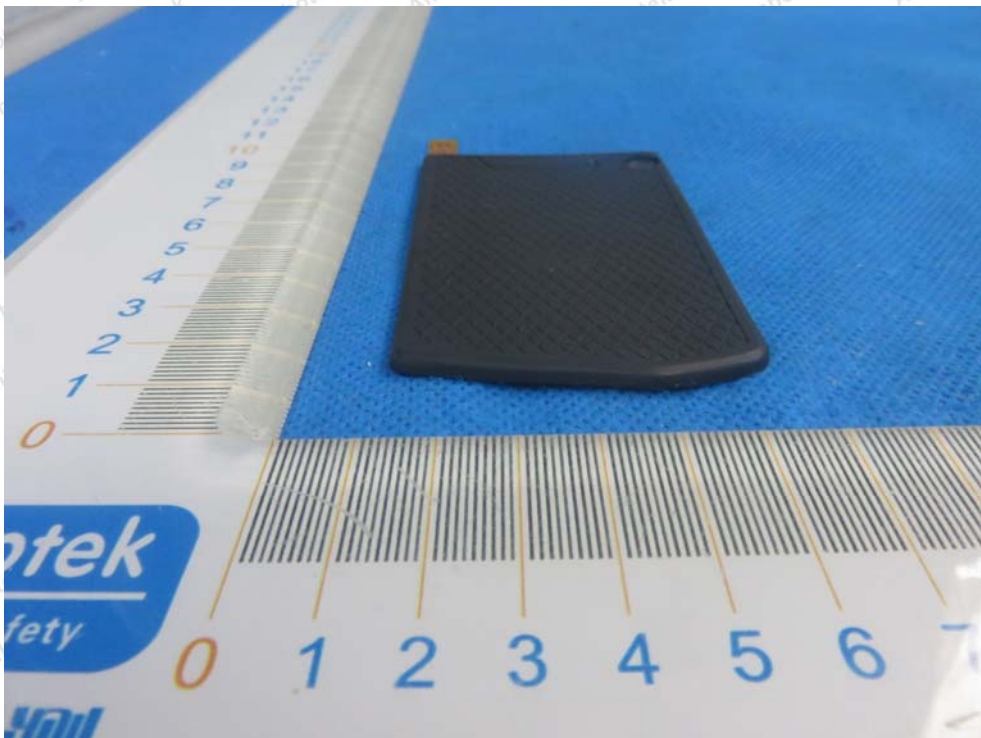
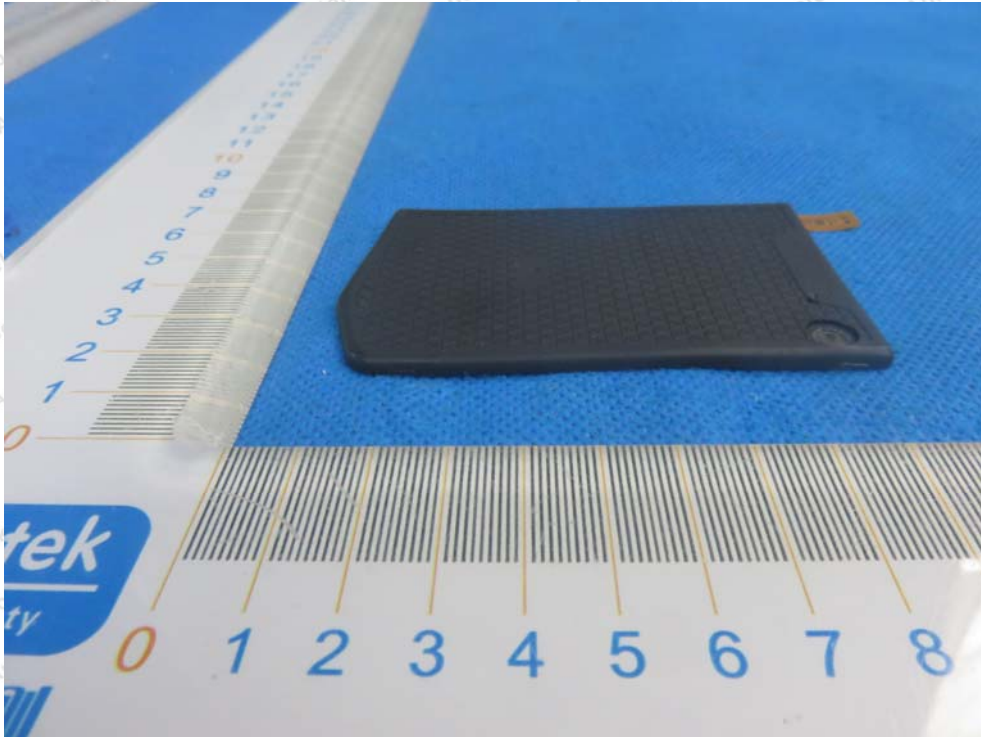


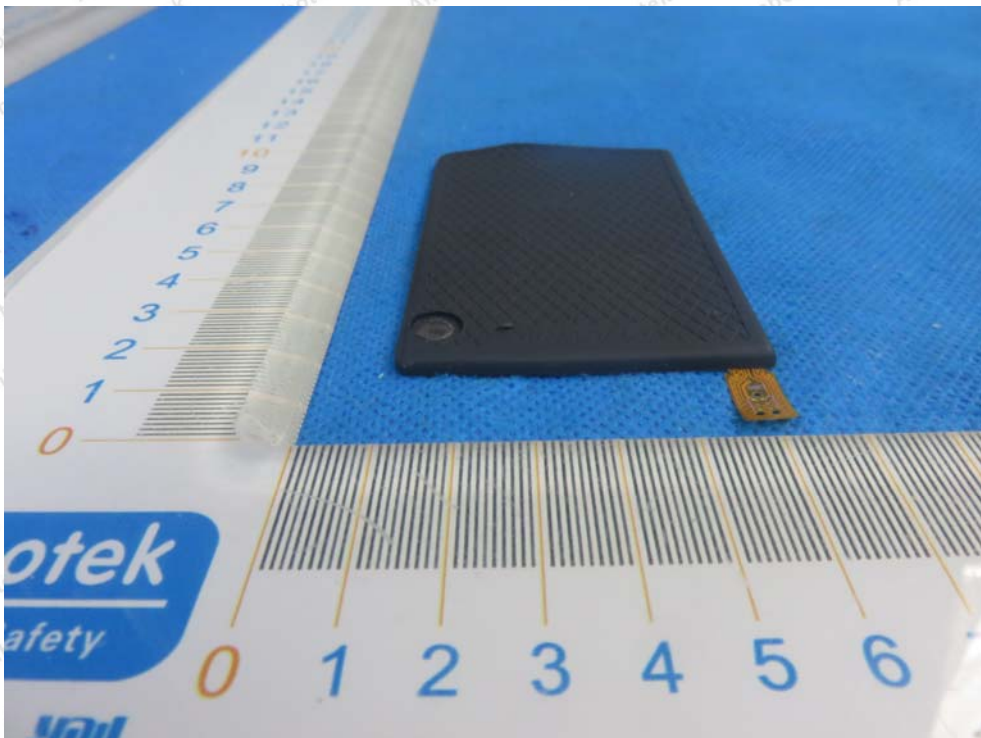
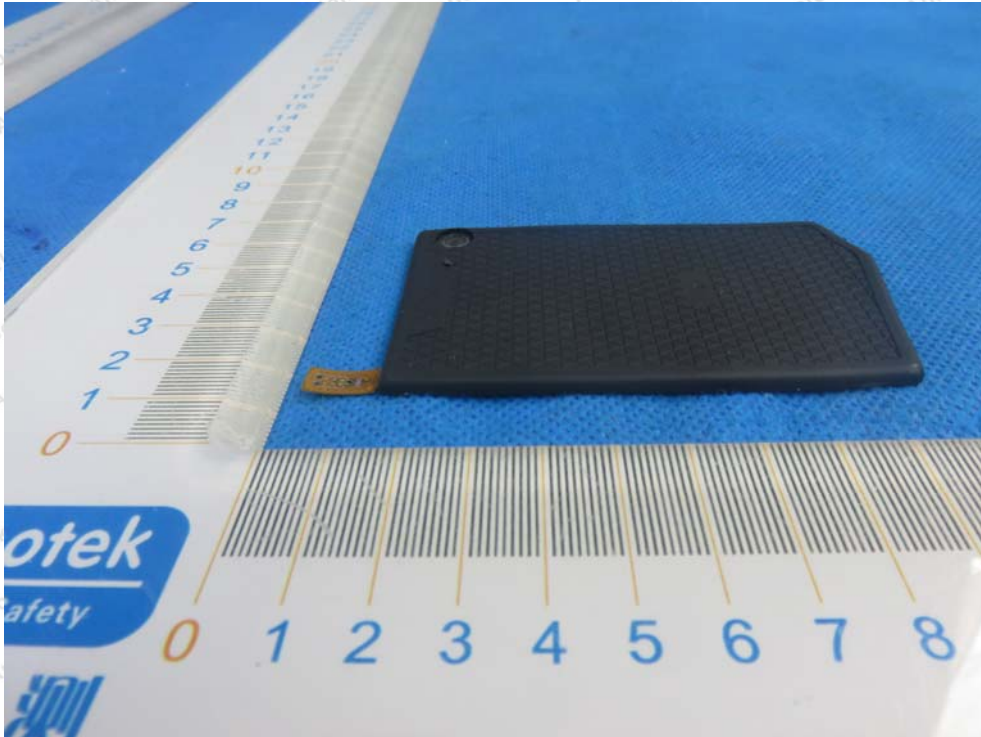
Photo of Radiation Emission Test

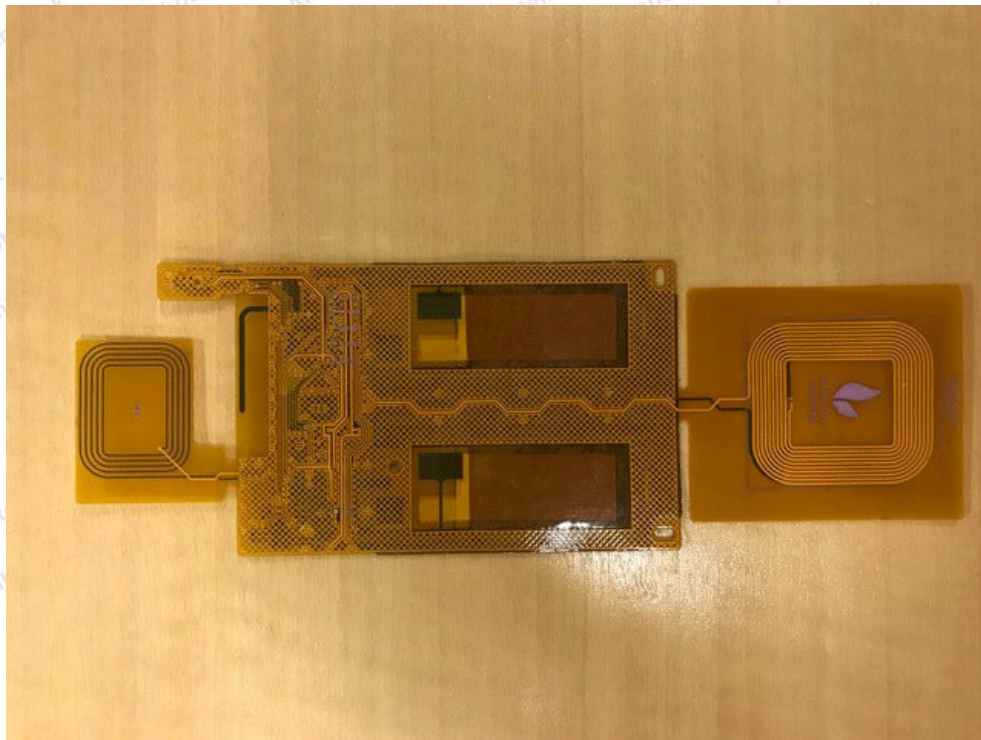
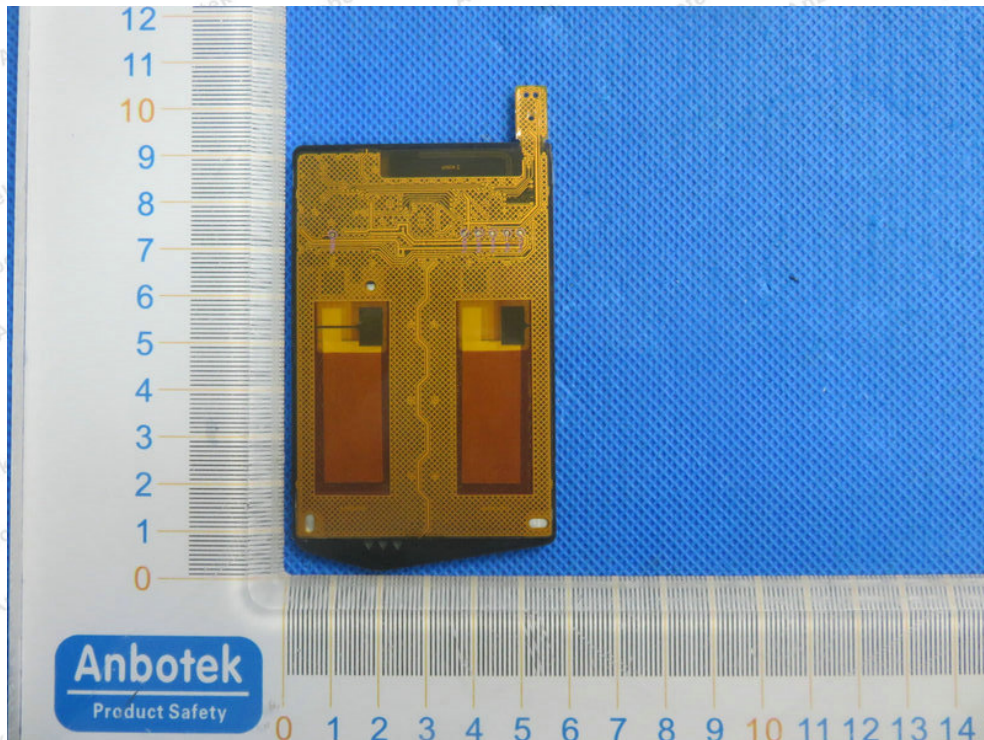


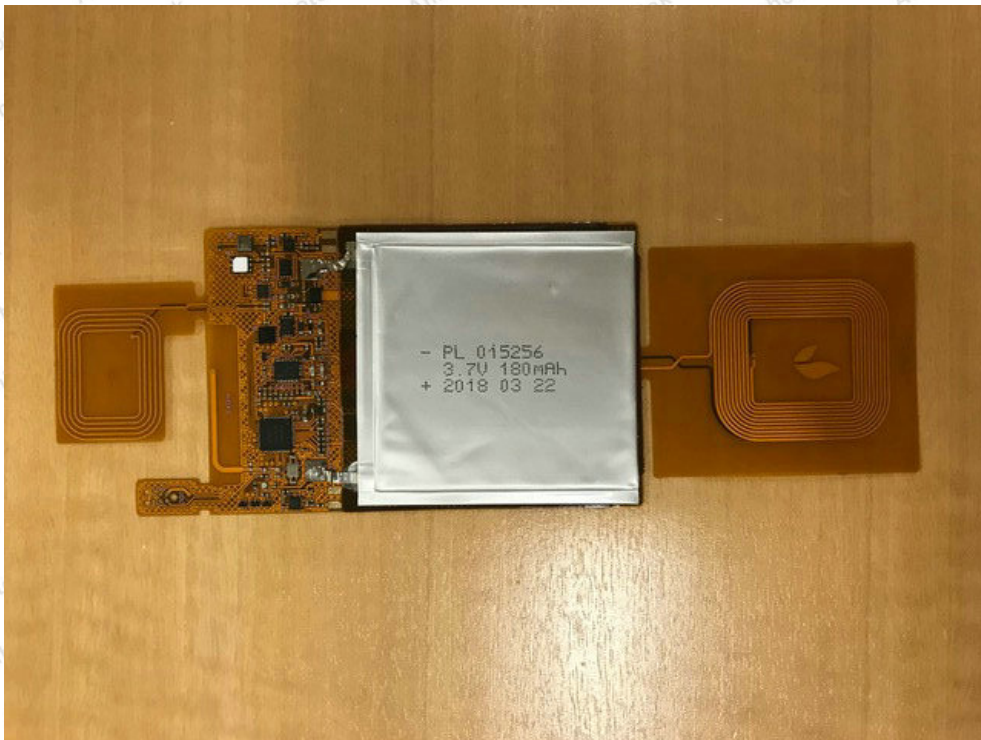
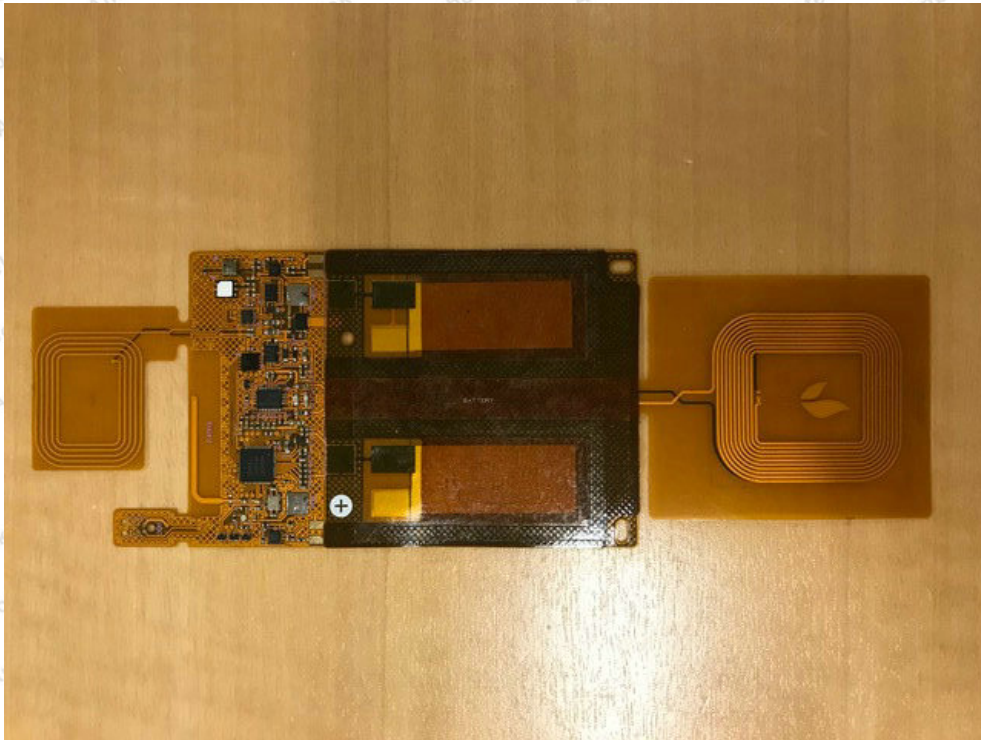


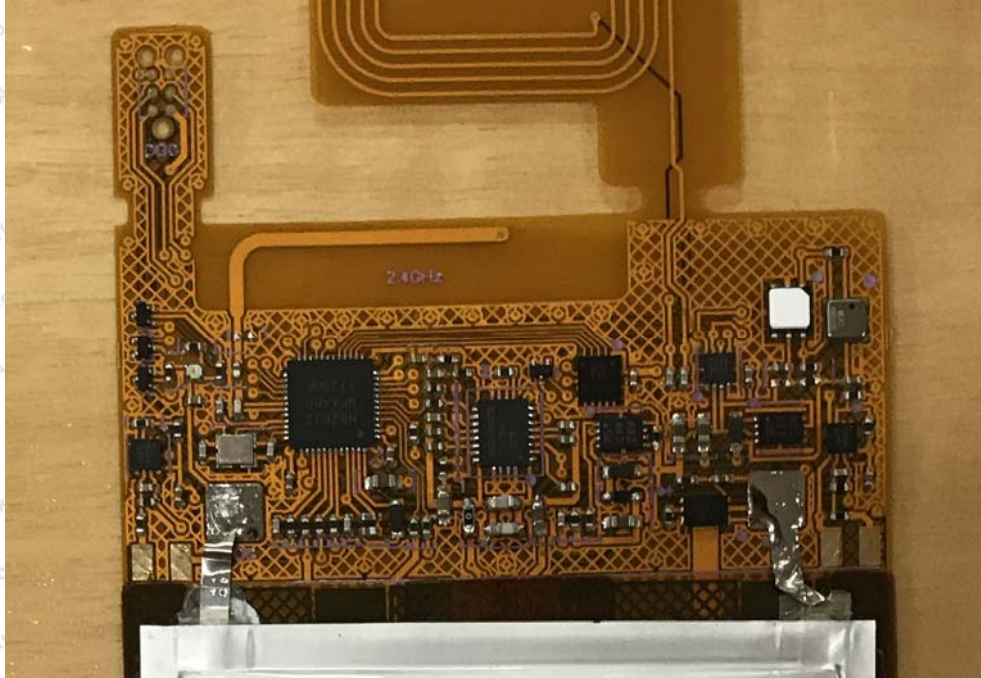
APPENDIX II -- EXTERNAL PHOTOGRAPH





APPENDIX III -- INTERNAL PHOTOGRAPH





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

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