FCC TEST REPORT

Client Name	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Product Name	:	PowerWave 7.5 Pad
Date	:	Jun. 19, 2019

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	:	Anker Innovations Limited
Manufacturer	:	Anker Innovations Limited
Product Name	:	PowerWave 7.5 Pad
Model No.	:	A2501
Trade Mark	:	ANKER
Rating(s)	:	Input: 5V⎓ 2A/ 9V⎓ 2A/ 12V⎓ 1.5A 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 Receipt Jun. 05, 2019

Date of Test Jun. 05~14, 2019

Anbotek (SZ) Compliance Laboratory Limited Anbotek Product Safety * Approved *

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	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer	:	Anker Innovations Limited
Address	:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Factory	:	HU NAN GIANTSUN POWER ELECTRONICS CO., LTD
Address	:	Building 15, 16, 17, Taiwan Industrial Zone, Nonferrous Metals Industrial Park, 423038 Chenzhou, Hunan, PEOPLE'S REPUBLIC OF CHINA

1.2. Description of Device (EUT)

Product Name	:	PowerWave 7.5 Pad	
Model No.	:	A2501	
Trade Mark	:	ANKER	
Test Power Supply	:	AC 240V, 60Hz for adapter/ AC 120V, 60Hz for adapter	
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)	
Product Description	:	Operation Frequency:	110.1-205KHz
		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	:	Model: A2013 Input: 100-240V~ 50-60Hz 0.7A Output: 3.6-6.5V⎓ 3A/ 6.5-9V⎓ 2A/ 9-12V⎓ 1.5A

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

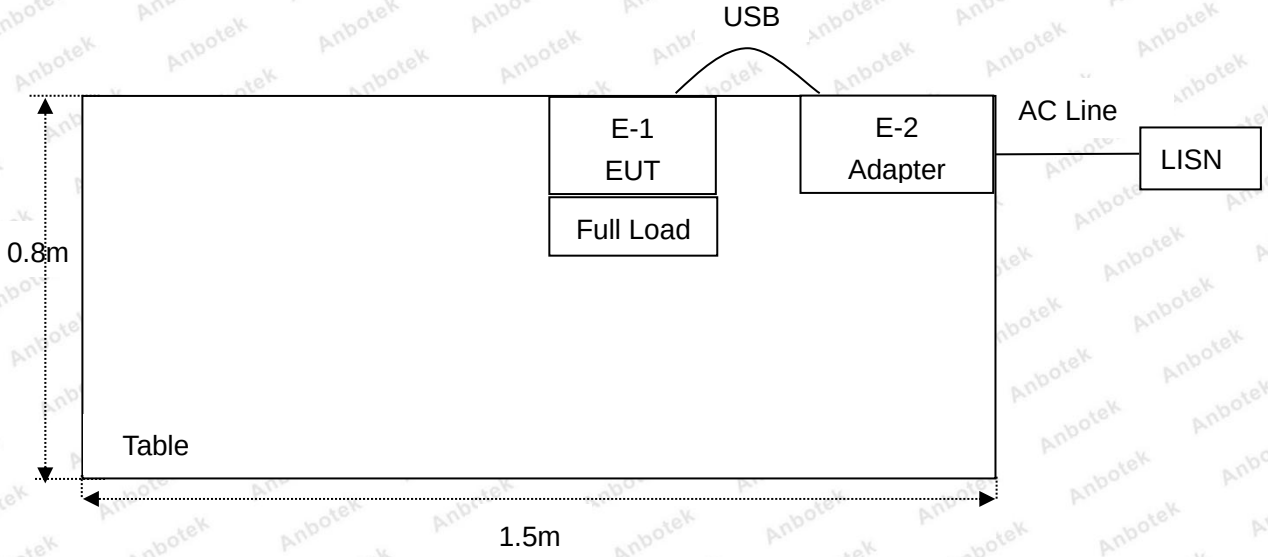
Note: (1)Test channel is 0.1138MHz.

(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.

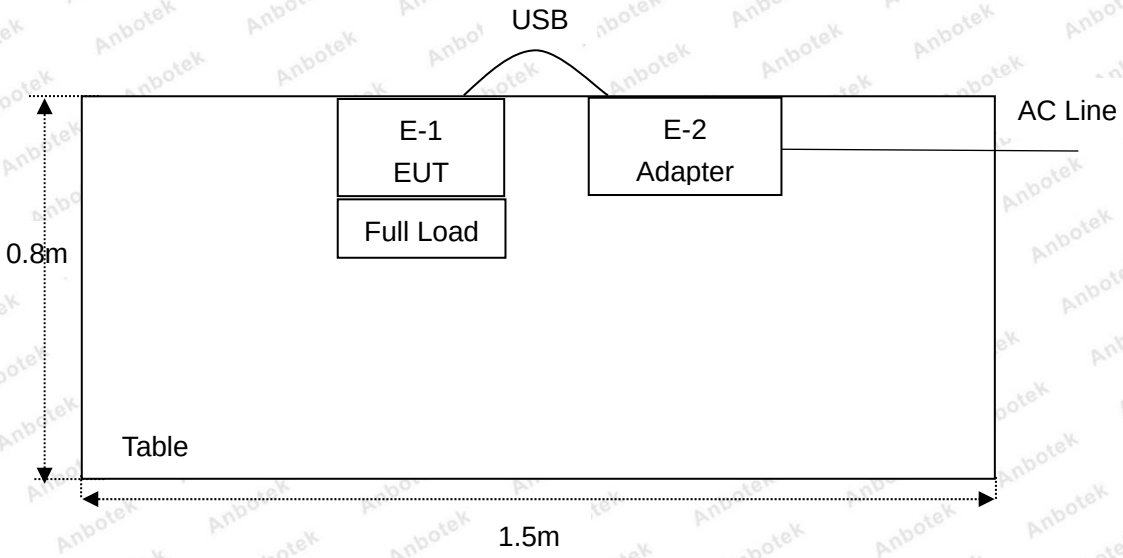
(3)5W/ 7.5W/ 10W All modes have been tested. This report only show the test result of the worst case(Full load 10W).

1.5. Description Of Test Setup

CE



RE



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. 26, 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. 20, 2018	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 19, 2018	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 20, 2018	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	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	LW	TPR-6420D	374470	Oct. 31, 2018	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	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 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

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

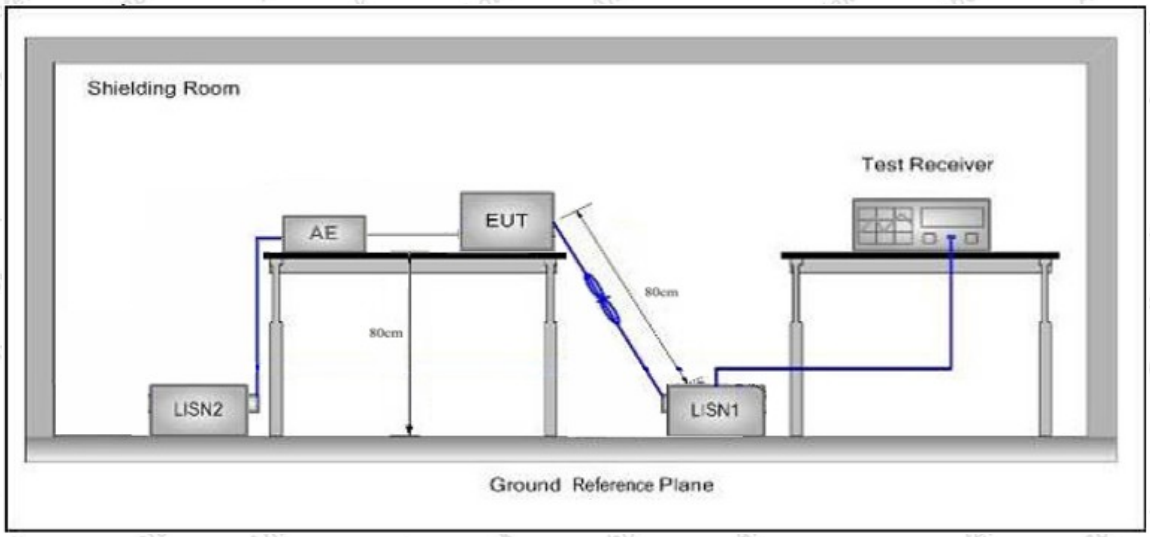
Standard Section	Test Item	Result
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emission	PASS
Part 15.203	Antenna Requirement	PASS

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.

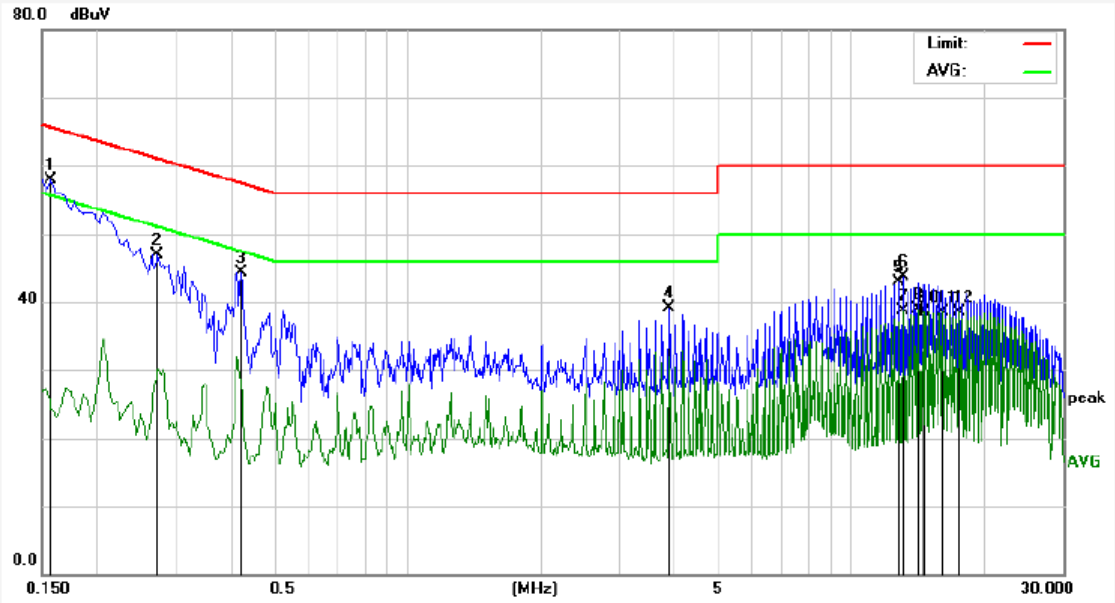
The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages

Conducted Emission Test Data

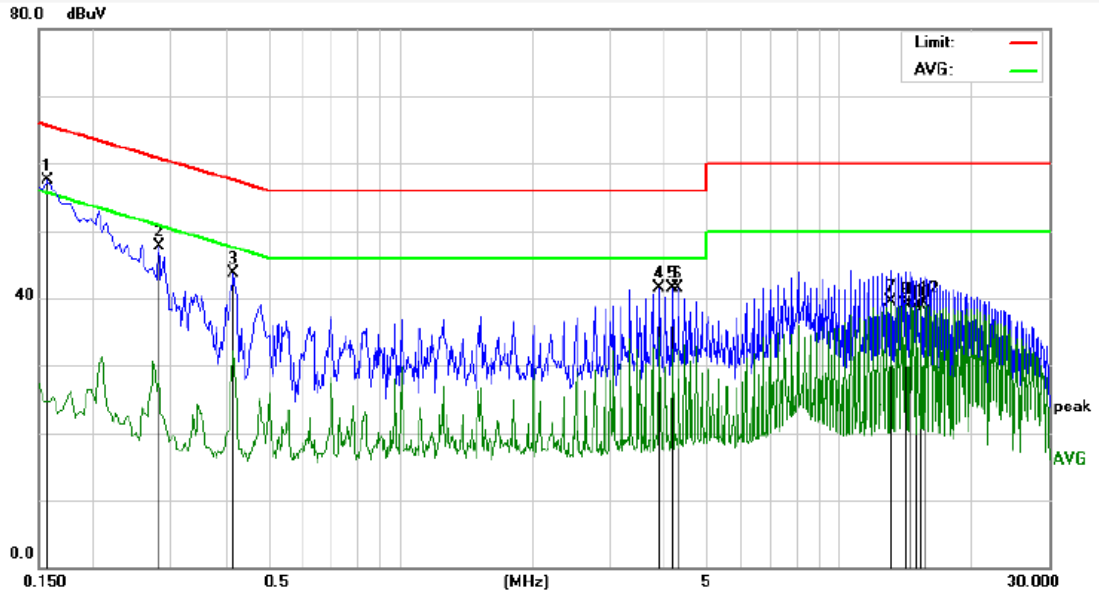
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Live Line
Tem.: 21.8℃ Hum.: 57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1580	37.94	19.90	57.84	65.56	-7.72	QP	
2	0.2740	27.00	19.89	46.89	60.99	-14.10	QP	
3	0.4220	24.29	19.94	44.23	57.41	-13.18	QP	
4	3.8940	18.97	20.18	39.15	56.00	-16.85	QP	
5	12.7980	22.59	20.30	42.89	60.00	-17.11	QP	
6	13.0780	23.48	20.29	43.77	60.00	-16.23	QP	
7	13.0780	18.45	20.29	38.74	50.00	-11.26	AVG	
8	14.1900	18.67	20.27	38.94	50.00	-11.06	AVG	
9	14.4700	18.25	20.27	38.52	50.00	-11.48	AVG	
10	14.7460	18.24	20.26	38.50	50.00	-11.50	AVG	
11	16.1100	18.27	20.28	38.55	50.00	-11.45	AVG	
12	17.5300	18.30	20.30	38.60	50.00	-11.40	AVG	

Conducted Emission Test Data

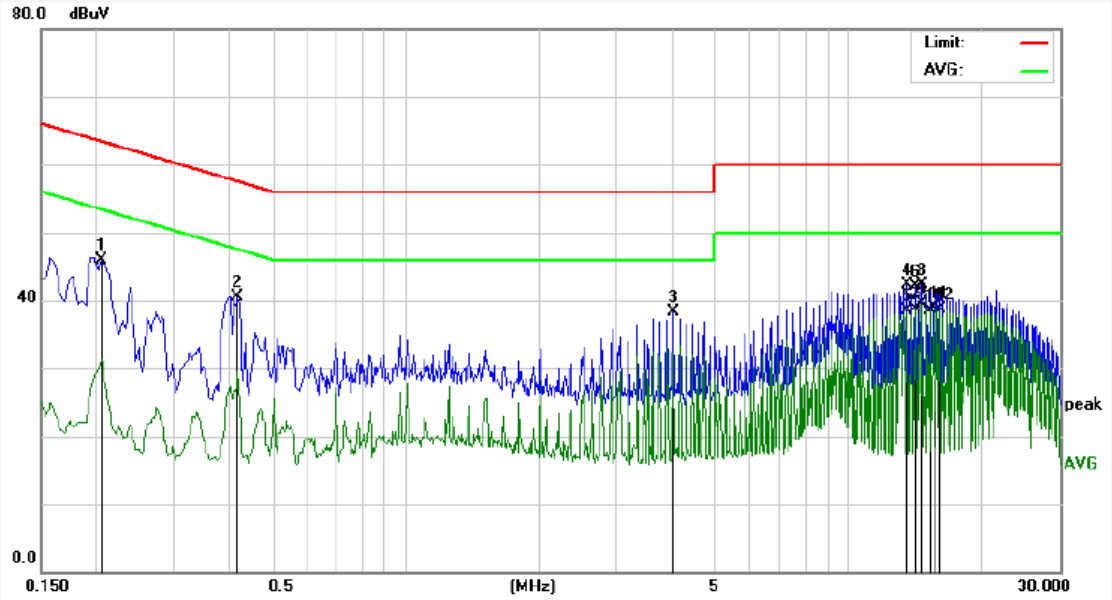
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 240V, 60Hz for adapter
Comment: Neutral Line
Tem.: 21.8℃ Hum.: 57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1580	37.52	19.90	57.42	65.56	-8.14	QP	
2	0.2819	27.72	19.89	47.61	60.76	-13.15	QP	
3	0.4180	23.73	19.94	43.67	57.49	-13.82	QP	
4	3.8980	21.24	20.18	41.42	56.00	-14.58	QP	
5	4.1740	21.30	20.18	41.48	56.00	-14.52	QP	
6	4.3140	21.23	20.19	41.42	56.00	-14.58	QP	
7	13.0780	19.19	20.29	39.48	50.00	-10.52	AVG	
8	14.1900	18.85	20.27	39.12	50.00	-10.88	AVG	
9	14.4700	18.78	20.27	39.05	50.00	-10.95	AVG	
10	15.0260	18.54	20.26	38.80	50.00	-11.20	AVG	
11	15.3300	18.65	20.27	38.92	50.00	-11.08	AVG	
12	15.5820	18.99	20.27	39.26	50.00	-10.74	AVG	

Conducted Emission Test Data

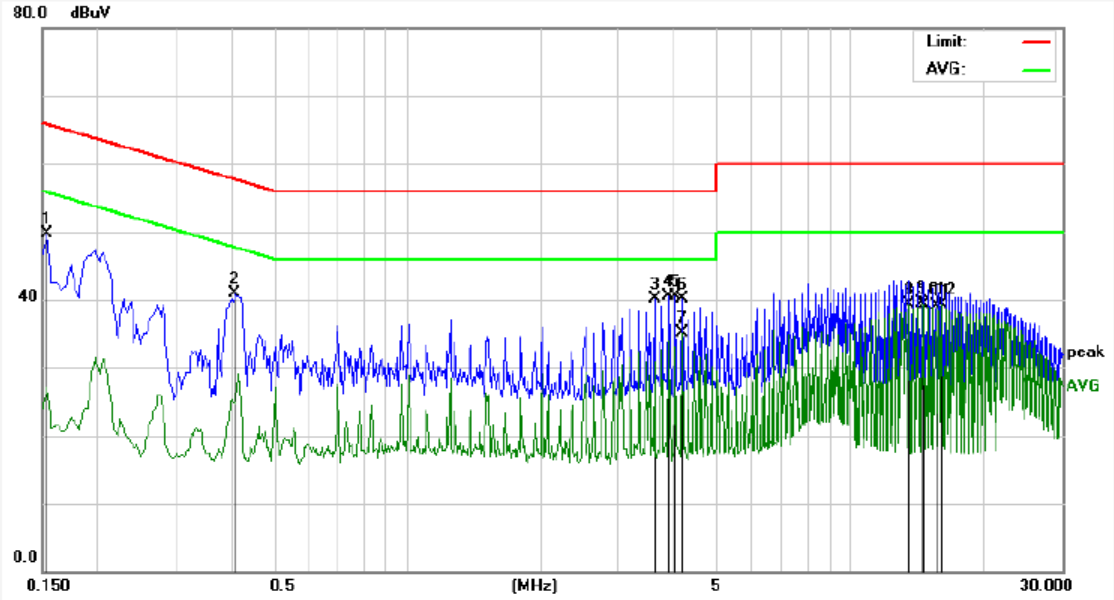
Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Live Line
Tem.: 21.8℃ Hum.: 57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.2060	25.97	19.90	45.87	63.36	-17.49	QP	
2	0.4180	20.48	19.94	40.42	57.49	-17.07	QP	
3	4.0300	18.21	20.18	38.39	56.00	-17.61	QP	
4	13.6100	21.99	20.28	42.27	60.00	-17.73	QP	
5	13.6100	18.19	20.28	38.47	50.00	-11.53	AVG	
6	14.1660	21.80	20.27	42.07	60.00	-17.93	QP	
7	14.1660	18.44	20.27	38.71	50.00	-11.29	AVG	
8	14.7220	22.07	20.26	42.33	60.00	-17.67	QP	
9	14.7220	19.21	20.26	39.47	50.00	-10.53	AVG	
10	15.2780	18.33	20.26	38.59	50.00	-11.41	AVG	
11	15.5540	18.55	20.27	38.82	50.00	-11.18	AVG	
12	16.1100	18.39	20.28	38.67	50.00	-11.33	AVG	

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: Mode 1
Test Specification: AC 120V, 60Hz for adapter
Comment: Neutral Line
Tem.: 21.8℃ Hum.: 57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Over Limit (dB)	Detector	Remark
1	0.1539	29.74	19.90	49.64	65.78	-16.14	QP	
2	0.4100	20.87	19.94	40.81	57.65	-16.84	QP	
3	3.6100	19.97	20.17	40.14	56.00	-15.86	QP	
4	3.8940	20.29	20.18	40.47	56.00	-15.53	QP	
5	4.0340	20.38	20.18	40.56	56.00	-15.44	QP	
6	4.1740	19.83	20.18	40.01	56.00	-15.99	QP	
7	4.1740	14.86	20.18	35.04	46.00	-10.96	AVG	
8	13.6100	18.97	20.28	39.25	50.00	-10.75	AVG	
9	14.4700	19.32	20.27	39.59	50.00	-10.41	AVG	
10	14.7220	19.12	20.26	39.38	50.00	-10.62	AVG	
11	15.5540	18.82	20.27	39.09	50.00	-10.91	AVG	
12	16.1100	18.94	20.28	39.22	50.00	-10.78	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

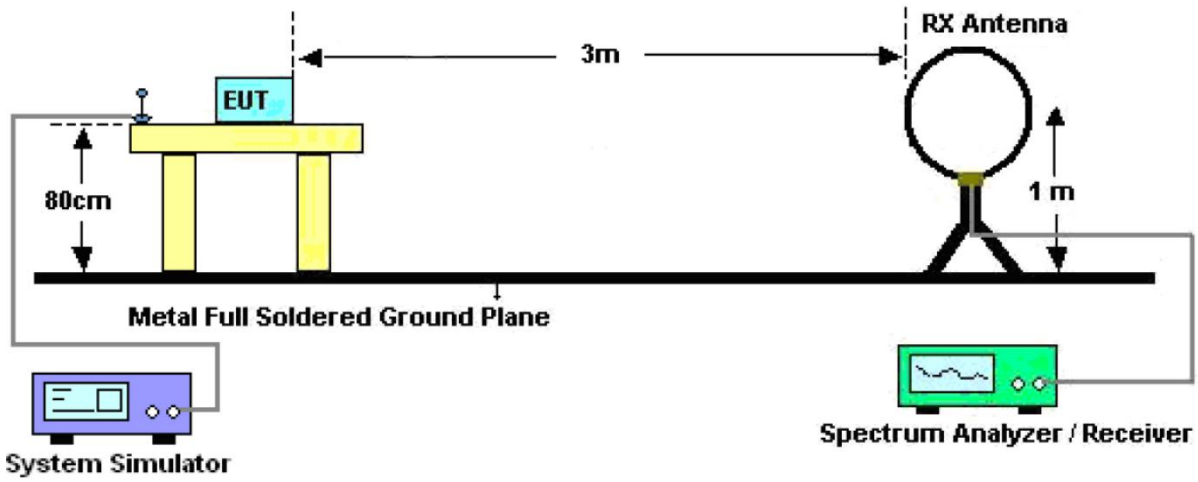


Figure 1. Below 30MHz

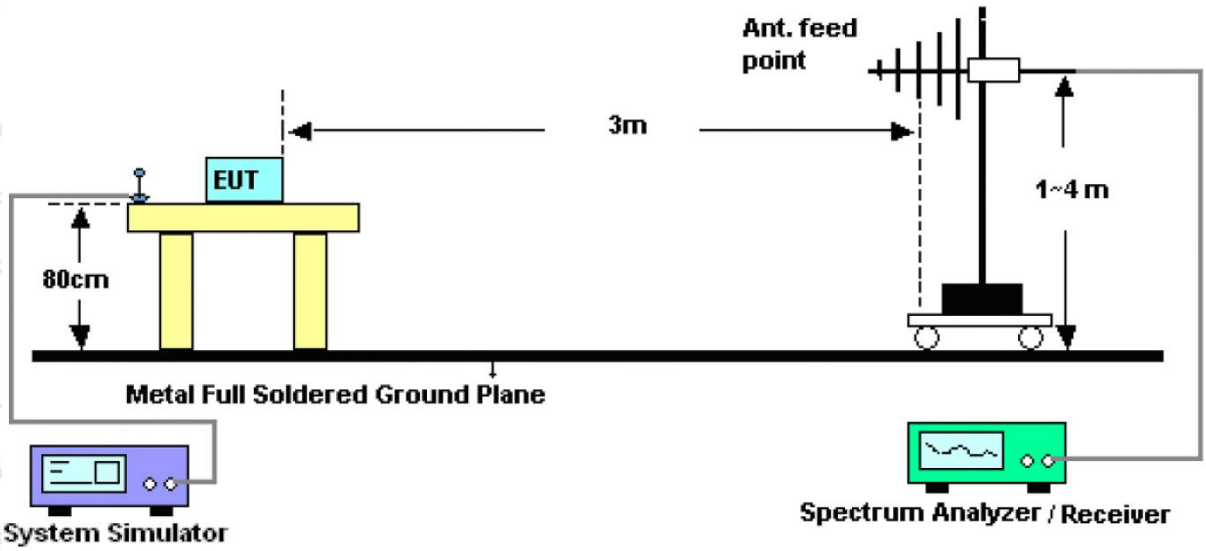


Figure 2. 30MHz to 1GHz

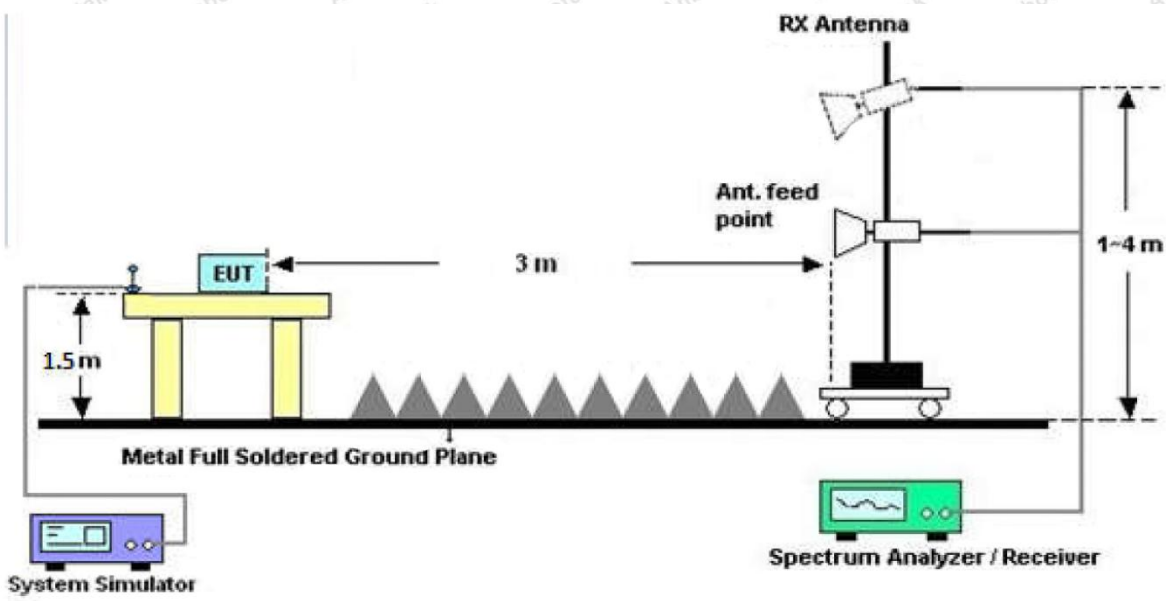


Figure 3. Above 1 GHz

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

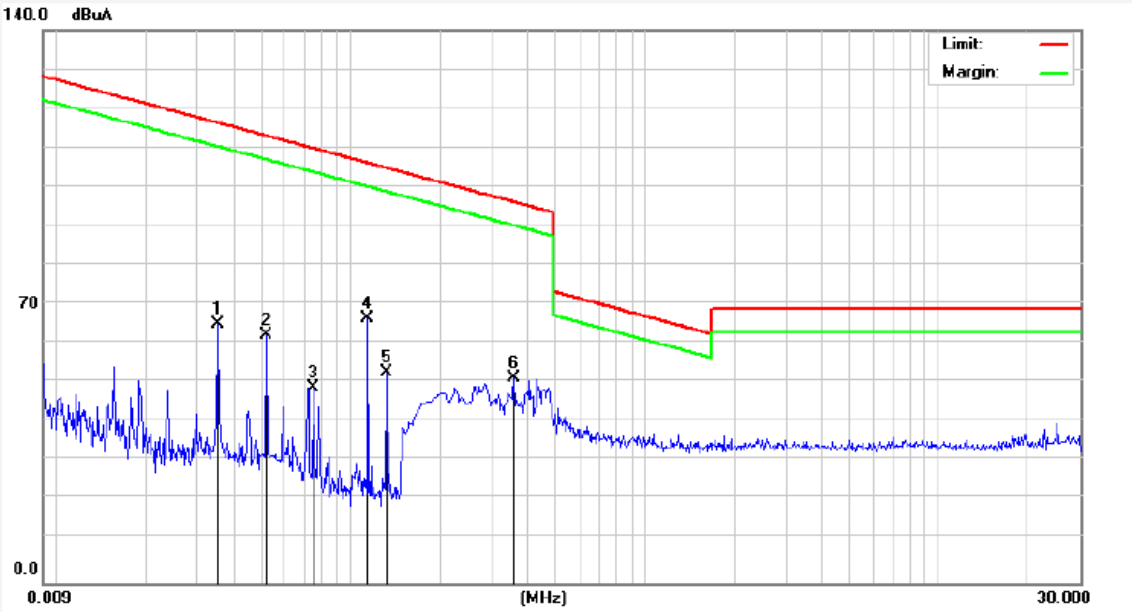
PASS

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

Test Results

(Between 9KHz – 30MHz)

Job No.:	**SZAWW190605004-01**		
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**25.4℃/54%RH**
Test Mode:	**Mode 1**	**Distance:**	**3m**

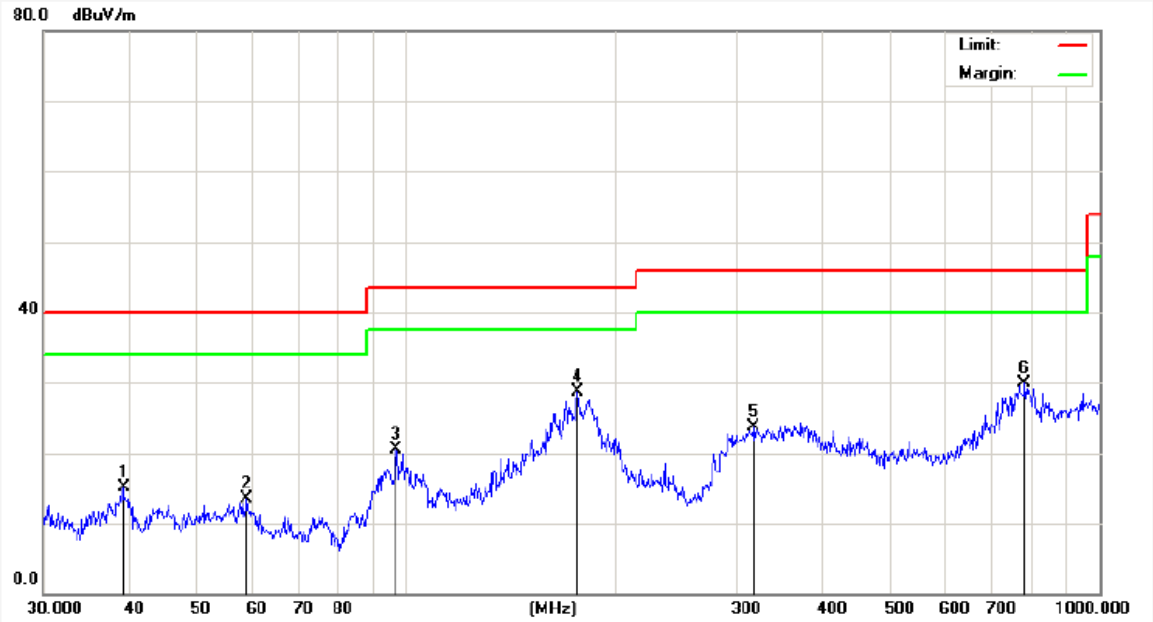


Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	degree (dge)
0.0353	53.59	19.30	2.53	0	75.42	136.48	-61.06	Peak	126
0.0353	42.15	19.30	2.53	0	63.98	116.48	-52.50	AV	126
0.0489	50.86	19.30	2.53	0	72.69	133.06	-60.37	Peak	57
0.0489	39.50	19.30	2.53	0	61.33	113.06	-51.73	AV	57
0.0743	40.55	19.29	2.54	0	62.38	129.58	-67.20	Peak	310
0.0743	29.60	19.29	2.54	0	51.43	109.58	-58.15	AV	310
0.1138	52.85	19.29	2.54	0	74.68	125.89	-51.21	Peak	249
0.1138	44.92	19.29	2.54	0	66.75	105.89	-39.14	AV	249
0.1140	54.73	19.63	2.59	0	76.95	125.77	-48.82	Peak	55
0.1140	40.11	19.63	2.59	0	62.33	105.77	-43.44	AV	55
0.3584	41.23	19.63	2.59	0	63.45	116.13	-52.68	Peak	184
0.3584	28.66	19.63	2.59	0	50.88	96.13	-45.25	AV	184

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.

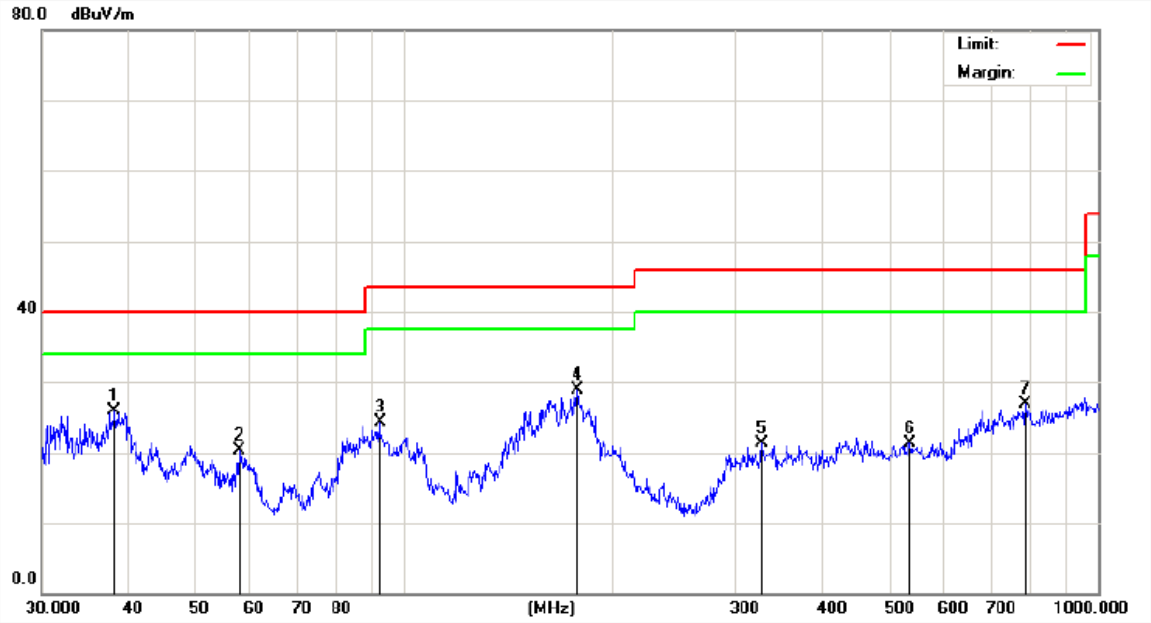
(Between 30MHz –1000 MHz)

Job No.:	**SZAWW190605004-01**	**Polarization:**	**Horizontal**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**23.7℃/51%RH**
Test Mode:	**Mode 1**	**Distance:**	**3m**



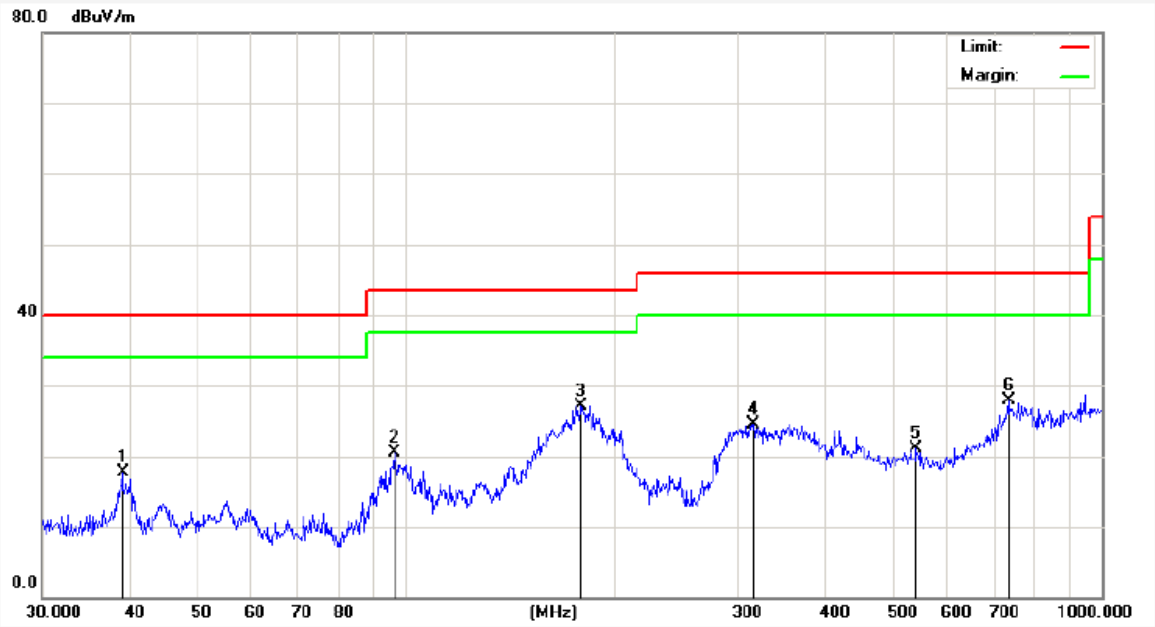
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.1616	32.94	-17.79	15.15	40.00	-24.85	QP	300	360	
2	59.0251	31.76	-18.34	13.42	40.00	-26.58	QP	300	300	
3	96.7749	43.67	-23.13	20.54	43.50	-22.96	QP	300	255	
4	176.8878	50.38	-21.67	28.71	43.50	-14.79	QP	300	214	
5	317.7011	40.12	-16.47	23.65	46.00	-22.35	QP	300	196	
6	779.6068	37.88	-8.03	29.85	46.00	-16.15	QP	300	144	

Job No.:	**SZAWW190605004-01**	**Polarization:**	**Vertical**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 120V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**23.7℃/51%RH**
Test Mode:	**Mode 1**	**Distance:**	**3m**



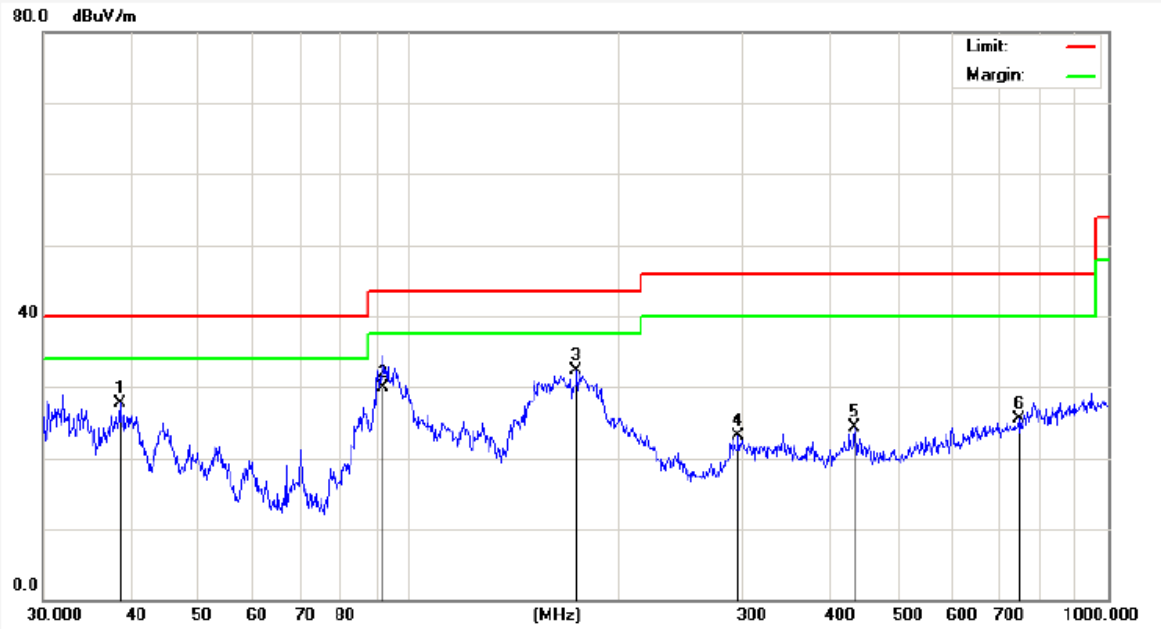
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	38.2120	42.85	-17.04	25.81	40.00	-14.19	QP	300	100	
2	57.7962	37.64	-17.24	20.40	40.00	-19.60	QP	300	253	
3	92.1388	42.75	-18.41	24.34	43.50	-19.16	QP	300	360	
4	177.5092	46.93	-17.94	28.99	43.50	-14.51	QP	300	41	
5	327.8873	36.13	-14.85	21.28	46.00	-24.72	QP	300	244	
6	535.7073	32.90	-11.56	21.34	46.00	-24.66	QP	300	157	
7	785.0935	34.06	-7.09	26.97	46.00	-19.03	QP	300	199	

Job No.:	**SZAWW190605004-01**	**Polarization:**	**Horizontal**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 240V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**23.7℃/51%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	39.1616	35.54	-17.79	17.75	40.00	-22.25	QP	300	147	
2	96.0986	43.71	-23.19	20.52	43.50	-22.98	QP	300	196	
3	178.7584	48.78	-21.72	27.06	43.50	-16.44	QP	300	177	
4	315.4808	41.23	-16.73	24.50	46.00	-21.50	QP	300	253	
5	541.3725	33.29	-12.26	21.03	46.00	-24.97	QP	300	360	
6	734.4913	36.68	-8.73	27.95	46.00	-18.05	QP	300	100	

Job No.:	**SZAWW190605004-01**	**Polarization:**	**Vertical**
Standard:	**FCC PART15 C _3m**	**Power Source:**	**AC 240V, 60Hz for adapter**
Test item:	**Radiation Test**	**Temp.(C)/Hum.(%RH):**	**23.7℃/51%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	44.70	-16.93	27.77	40.00	-12.23	QP	300	300	
2	91.5364	48.65	-18.65	30.00	43.50	-13.50	QP	100	360	
3	173.8135	50.59	-18.22	32.37	43.50	-11.13	QP	300	144	
4	296.1836	38.73	-15.65	23.08	46.00	-22.92	QP	300	297	
5	434.0651	36.83	-12.56	24.27	46.00	-21.73	QP	300	179	
6	744.8661	33.59	-8.11	25.48	46.00	-20.52	QP	300	156	

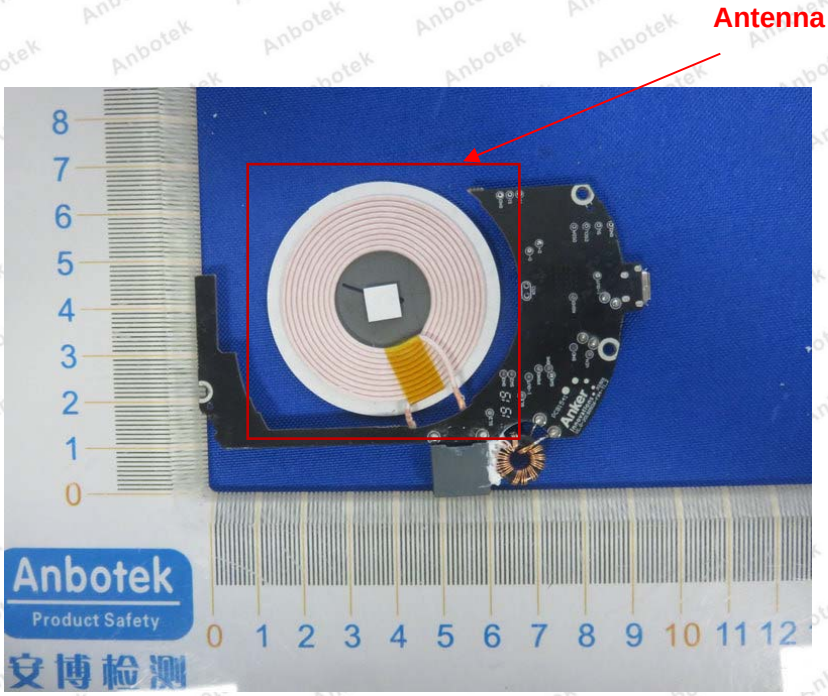
5. Antenna Requirement

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.



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