

Report No.: 18220WC00148001 FCC ID: 2AQZH-GD461

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FCC TEST REPORT

: Gopod Group Limited. **Client Name**

6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Address Kong

Product Name Magnetic Wireless Charging Stand

Date

Dec. 26, 2020



Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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Anbote

Product Safety

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TEST REPORT

Applicant	: Gopod Group Limited.
Manufacturer	: Gopod Group Holding Limited.
Product Name	: Magnetic Wireless Charging Stand
Model No.	: GD461, GD461A, D461B, D461C
Trade Mark	: Gmobi
Rating(s)	Input: 5V=2.4A, 9V=2A, 12V=2A, 15V=2A Ouptu1: 5V=1A, 9V=1.1A, 12V=1.25A Max Ouptu2: 5V=1A Power: 5W/7.5W/10W/15W
Test Standard(s)	FCC Part15 Subpart C, 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 Date of Test

Prepared By

Nov. 09, 2020 Nov. 09~Dec. 16, 2020

Tilia Zhong

(Engineer / Yilia Zhong)

Bibs thank

(Supervisor / Bibo Zhang)

Kingkom

(Manager / Kingkong Jin)

Reviewer

Approved & Authorized Signer

Shenzhen Anbotek Compliance Laboratory Limited

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1. General Information

1.1. Client Information

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Applicant	:	Gopod Group Limited.
Address	:	6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong
Manufacturer	:	Gopod Group Holding Limited.
Address	:	4-5-6/F, Building 8 & 1F, Building 3#& 4F, Building 6, LianJian Science and Technology Industrial Park, HuaRong Rd, Tongsheng Community, DaLang Street, LongHua District, Shenzhen
Factory	:	Gopod Group Holding Limited.
Address	:	4-5-6/F, Building 8 & 1F, Building 3#& 4F, Building 6, LianJian Science and Technology Industrial Park, HuaRong Rd, Tongsheng Community, DaLang Street, LongHua District, Shenzhen

1.2. Description of Device (EUT)

Product Name	:	Magnetic Wireless Charging S	Stand				
Model No.	:	GD461, GD461A, D461B, D46 (Note: All samples are the sar "GD461" for test only.)	51C ne except the model number, so we prepare				
Trade Mark	:	Gmobi	hotek Anbotek Anbotek Anbotek				
Test Power Supply	:	AC 120V, 60Hz for adapter / AC 240V, 60Hz for adapter					
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)					
		Operation Frequency:	110.1-205KHz				
Product		Modulation Type:	FSK Anbolek Anbolek Anbo				
Description	ŀ	Antenna Type:	Inductive loop coil Antenna				
		Antenna Gain(Peak):	0 dBi				

or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

Adapter	:	M/N: A1540 Input: AC 100-240V, 0.75A, 50-60Hz Output: 14.5V==2A, 5.2V==2.4A
Mobile phone	:	Manufacturer: Apple M/N: iPhone 12
Earplugs	:	Earplugs

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	Wireless Charging Mode						
obotek Anbotes	nt otek anbotek Anbotek Anbotek Anbotek						
	For Conducted Emission						
Final Test Mode	Description						
Mode 1	Wireless Charging Mode						

For Radiated Emission							
Final Test Mode	Description						
Mode 1	Wireless Charging Mode						

Note: (1)Test channel is 0.1145MHz.

(2) All the situation(full load, half load and empty load) has been tested,only the worst situation (full load 15W) was recorded in the report.

(3) All the conditions have been tested. It is found that Wireless Output(15W) work simultaneously is the worst mode, and the data in the report only reflects the worst mode.

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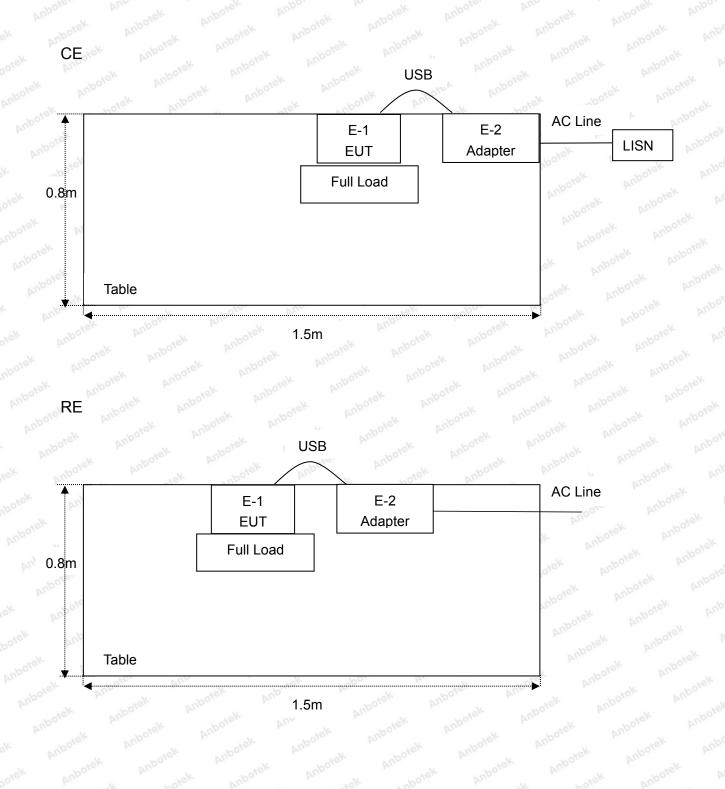
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1.5. Description Of Test Setup



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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
L.I.S.N. 1. Artificial Mains Network		Rohde & Schwarz	ENV216	100055	Oct. 26, 2020	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 26, 2020	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 26, 2020	1 Year
A 4.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Oct. 26, 2020	1 Year
5.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
6.	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 26, 2020	1 Year
Totel	Double Ridged Horn Antenna	Horn Instruments G		351600	Nov. 02, 2020	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	Schwarzbeck VULB9163 VULB 9163		Nov. 02, 2020	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B 00053 No		Nov. 02, 2020	2 Year
10.	Horn Antenna	A-INFO	LB-180400-K F	J211060628	Nov. 02, 2020	2 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 26, 2020	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A, noote	N/A	N/A	N/A
13.	RF Test Control System	YIHENG	YH3000	2017430	Oct. 26, 2020	1 Year
14.	Power Sensor	DAER	RPR3006W	15100041SN045	Oct. 26, 2020	1 Year
15.	Power Sensor	DAER	RPR3006W	15100041SN046	Oct. 26, 2020	1 Year
16.	MXA Spectrum Analysis	Agilent	Annote Anboten Ando		Oct. 26, 2020	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656 Oct. 26, 202		1 Year
18.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 26, 2020	1 Year
19.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 26, 2020	1 Year
20.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A of the	Oct. 26, 2020	1 Year

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1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizor	ntal)	ore Arris	botek Al	botek
		Ur = 3.8 dB (Vertical)ootek	inbor Ar	abotek	Anboten
		e. And botek	Anbotek	Anbo. stek	Anbotek	Anbote.
Conduction Uncertainty	:	Uc = 3.4 dB	Anbotek	Anbu	Anbotek	Anbo

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, September 30, 2020.

ISED-Registration No.: 8058A

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, September 30, 2020.

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

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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

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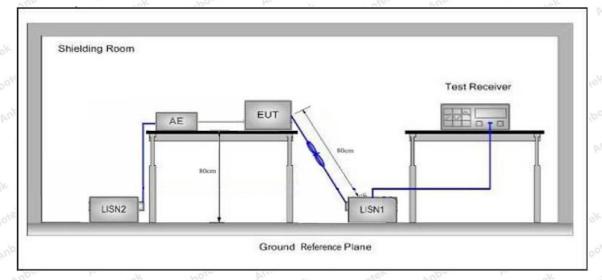
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.20)7 hek habotek Anbo					
4	Frequency	Maximum RF Line Voltage (dBuV)					
	Frequency	Quasi-peak Level	Average Level				
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
	500kHz~5MHz	56	46				
	5MHz~30MHz	60	50 Lotel				

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

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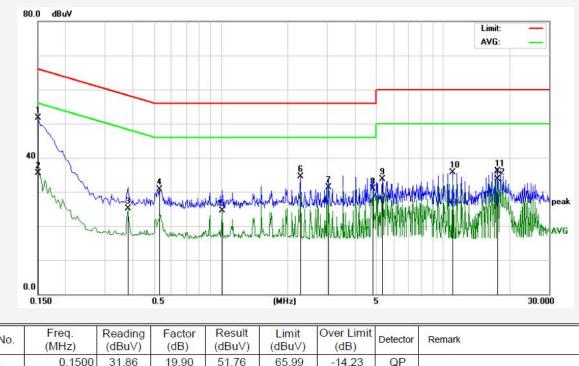
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Conducted Emission Test Data

Test Site:1# Shielded RoomOperating Condition:Mode 1Test Specification:AC 120V, 60Hz for adapterComment:Live LineTem.: 22.4°C Hum.: 48%



No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	Remark
1	0.1500	31.86	<mark>19.90</mark>	51.76	65.99	-14.23	QP	
2	0.1500	15.55	19.90	35. <mark>4</mark> 5	55.99	-20.54	AVG	
3	0.3820	5.22	19.93	25.15	48.23	-23.08	AVG	
4	0.5299	10.79	19.99	30.78	56.00	-25.22	QP	
5	1.0140	4.40	20.12	24.52	46.00	-21.48	AVG	
6	2.2860	14.37	20.15	34.52	56.00	-21.48	QP	
7	3.0460	11.05	20.16	31.21	46.00	-14.79	AVG	
8	<mark>4.8260</mark>	10.78	20.20	30.98	46.00	-15.02	AVG	
9	5.3340	13.48	20.22	33.70	60.00	-26.30	QP	
10	11.0460	15.46	20.32	35.78	60.00	-24.22	QP	
<mark>11</mark>	17.6500	15.88	20.30	36.18	60.00	-23.82	QP	
12	17.6500	13.37	20.30	33.67	50.00	-16.33	AVG	

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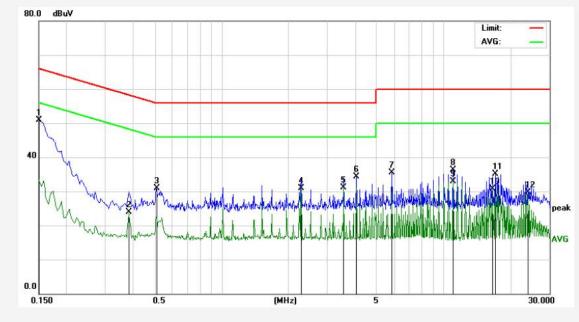
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Conducted Emission Test Data

Test Site: Operating Condition: Test Specification: Comment: Data 1# Shielded Room Mode 1 AC 120V, 60Hz for adapter Neutral Line Tem.: 22.4°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	31.05	19.90	50.95	65.99	-15.04	QP	
2	0.3820	3.90	19.93	23.83	48.23	-24.40	AVG	
3	0.5100	10.84	19.98	30.82	56.00	-25.18	QP	
4	2.2860	10.77	20.15	30.92	46.00	-15.08	AVG	
5	3.5580	10.98	20.17	31.15	46.00	-14.85	AVG	
6	4.0620	14.10	20.18	34.28	56.00	-21.72	QP	
7	5.8420	15.35	20.23	35.58	60.00	-24.42	QP	
8	11.0500	16.06	20.32	36.38	60.00	-23.62	QP	
9	11.0500	12.51	20.32	32.83	50.00	-17.17	AVG	
10	16.6380	10.42	20.29	30.71	50.00	-19.29	AVG	
11	17.1460	14.89	20.29	35.18	60.00	-24.82	QP	
12	24.1259	9.33	20.29	29.62	<u>50.00</u>	-20.38	AVG	

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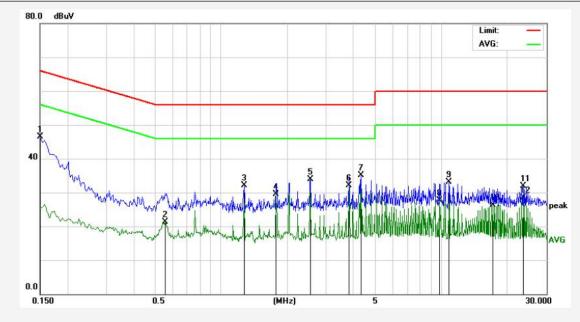
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Conducted Emission Test Data

Test Site: Operating Condition: Test Specification: Comment: Data 1# Shielded Room Mode 1 AC 240V, 60Hz for adapter Live Line Tem.: 22.4℃ Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBu∀)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	26.57	19.90	46.47	65.99	<mark>-19.52</mark>	QP	
2	0.5580	1.34	20.00	21.34	46.00	-24.66	AVG	
3	1.2700	11.99	20.13	32.12	56.00	-23.88	QP	
4	1.7780	9.41	20.14	29.55	46.00	-16.45	AVG	
5	2.5420	13.66	20.15	33.81	56.00	-22.19	QP	
6	3.8100	11.94	20.18	32.12	46.00	-13.88	AVG	
7	<mark>4.31</mark> 80	14.87	20.19	35.06	56.00	-20.94	QP	
8	9.7820	7.36	20.33	27.69	50.00	-22.31	AVG	
9	10.7980	12.75	20.33	33.08	60.00	-26.92	QP	
10	17.1340	6.08	20.29	26.37	50.00	-23.63	AVG	
11	23.6180	<mark>11.60</mark>	20.30	31.90	60.00	-28.10	QP	
12	23.6180	8.19	20.30	28.49	50.00	-21.51	AVG	

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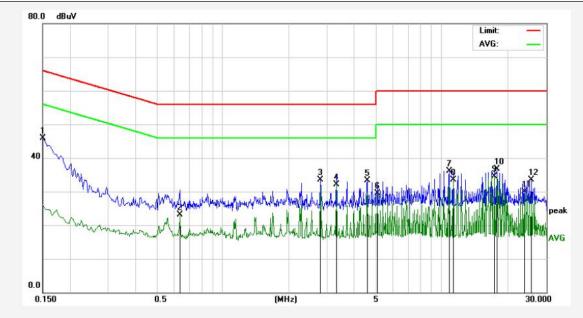
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Conducted Emission Test Data

Test Site: Operating Condition: Test Specification: Comment: Data 1# Shielded Room Mode 1 AC 240V, 60Hz for adapter Neutral Line Tem.: 22.4°C Hum.: 48%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1500	25.95	19.90	45.85	65.99	-20.14	QP	
2	0.6340	3.01	20.02	23.03	46.00	-22.97	AVG	
3	2.7940	13.34	20.16	33.50	56. <mark>0</mark> 0	-22.50	QP	
4	3.3020	12.00	20.17	32.17	46.00	-13.83	AVG	
5	<mark>4.5700</mark>	13.20	20.20	<mark>33.40</mark>	56.00	-22.60	QP	
6	5.0980	9.33	20.21	29.54	50.00	-20.46	AVG	
7	10.7940	15.75	20.33	36.08	60.00	-23.92	QP	
8	11.3020	13.16	20.32	33.48	50.00	-16.52	AVG	
9	17.3980	14.28	20.30	34.58	50.00	-15.42	AVG	
10	17.9060	16.35	20.31	36.66	60.00	-23.34	QP	
11	23.8740	9.67	20.29	29.96	50.00	-20.04	AVG	
12	25.6500	13.19	20.28	33.47	60.00	-26.53	QP	

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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

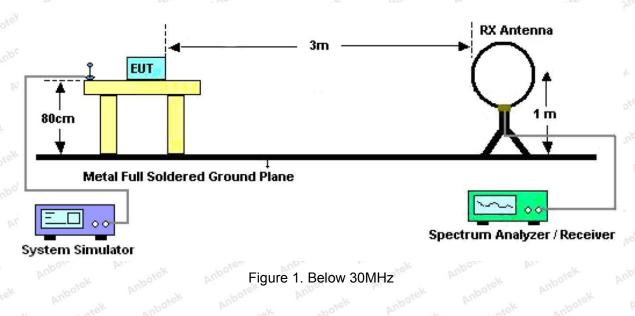
Test Standard	FCC Part15 C Section 1	5.209 and 15.205			tek Anbotek	
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz~0.490MHz	2400/F(kHz)	Anotek	Anbotek	300	
	0.490MHz-1.705MHz	24000/F(kHz)	And hotek	Andotek	30	
	1.705MHz-30MHz	30	And both	K Anbotek	30	
Test Limit	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 moore	54.0	Quasi-peak	Anbo 3	
		500	54.0	Average	3	
	Above 1000MHz	Anbotek Ant	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.

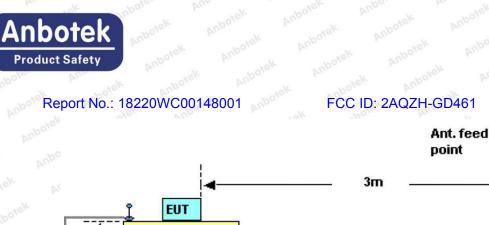
4.2. Test Setup



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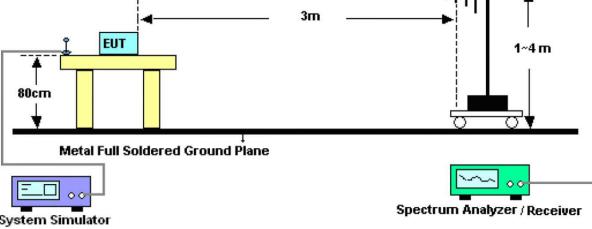


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

80cm

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

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anda	rd:	FCC PA	RT15 C	3m	Power S	ource:	Anbor	AC 1	20V. 60	Hz for adapte
aboten And k anbo					BUNAND		C/48%I			
			on rest		100	;)/Hum.(%	ыкп).		C/40 /01	
st Mo	ode:	Mode 1			Distance	e: Aupo		3m		
	hotek			-xek	anbotel					
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10										
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10										
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No.	Freq. (MHz)	Reading (dBuV)	Factor	Result	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
	0.0351	47.33	0.03	47.36	116.56	-69.20	peak	(1.1.1)	()	
2	0.0465	29.36	0.03	29.39	114.13	-84.74	peak			
3	0.0686	25.97	0.03	26.00	110.77	-84.77	peak			
,						00 75			1	1
5 5	0.0919	25.47 51.67	0.03	25.50 51.70	108.25 106.35	-82.75 -54.65	peak			

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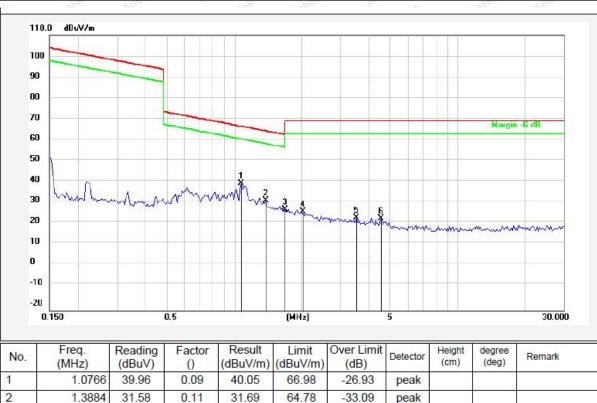
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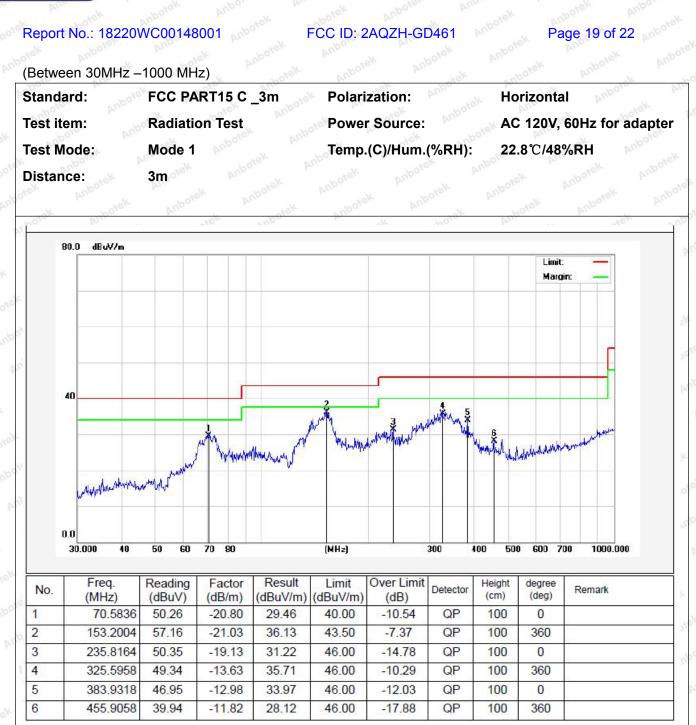
	3	1.6981	27.64	0.12	27.76	63.04	-35.28	peak			
	4	2.0119	26.58	0.13	26.71	69.50	-42.79	peak			
	5	3.5278	23.57	0.17	23.74	69.50	-45.76	peak			
	6	4.5494	23.16	0.20	23.36	69.50	-46.14	peak			
		V	-	37		794	-70~	T			DAY:
R	emark	k: According	to FCC	PART 15	209 (d) t	he emissi	on limits f	or the fre	quency	bands 9–90) kHz 110–49

kHz and above 1000 MHz, Radiated emission limits in these three bands are based on measurements employing an average detector.

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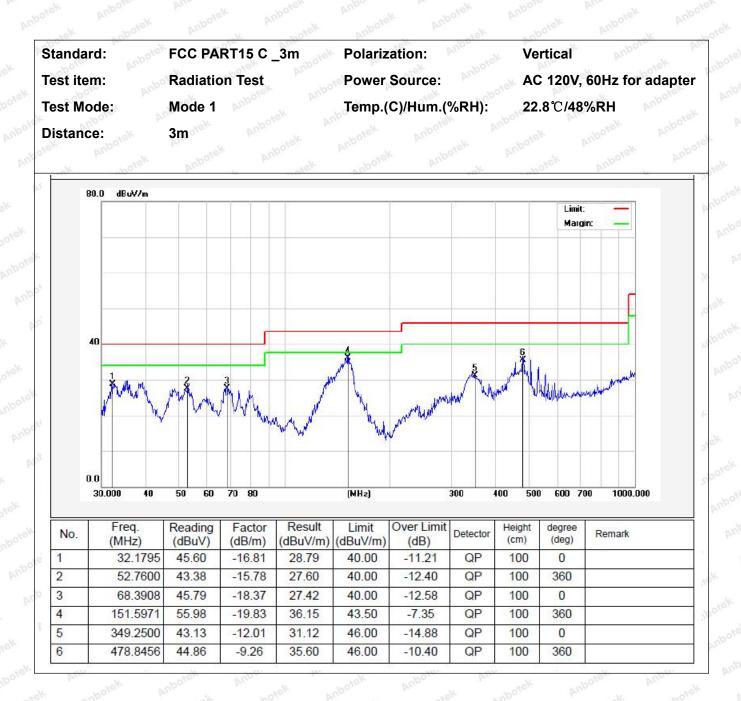
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5. Antenna Requirement

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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APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files for Test Setup Photos of the EUT.

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files for External Photos of the EUT.

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files for Internal Photos of the EUT.

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

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