

Report No.: SZAWW190425002-01FCC ID: 2AQZH-GD216BPage 1 of 31

FCC TEST REPORT

Client Name : Gopod Group Limited.

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

Product Name : Apple Watch Charger Multi-Function Power Bank

Date : May 29, 2019

Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited

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

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EST REPOR

Applicant :	Gopod Group Limited.
Manufacturer :	Gopod Group Holding Ltd.
Product Name :	Apple Watch Charger Multi-Function Power Bank
Model No. :	GD216B, GD216A
Trade Mark :	Gmobi
Rating(s) :	Input: DC 5V, 1A(with DC 3.7V, 5200 mAh Battery inside) Wireless Output: DC 5W USB Output: DC 5V, 2.1A

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.

			- nbo			
	Date of Receipt			Apr. 25,	2019	
	Date of Test	anbote.		Apr. 25~May	/ 20, 2019	
	Prepared By	Anbotek		obiay	"arg	
	Anbolen A toga	Approved #	Anbotek Anb	(Engineer / C	ek Anbor	Anbotek Anbotek
	Reviewer	bo Anbotek	Anbotek Anbotek	Snavy	Mang	potek Anbote
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14	Approved & Authorize	ed Signer	Anbour An	wotek Moot	on Upupo	k botek
o ^{tek} Shen	zhen Anbotek Compl	iance Laboratory L	imited apotek	(Manager / Sa		e:AB-RF-05-a
Addre Hange	ss: 1/F, Building D, Sogoo cheng Street, Bao'an Dist 6)755–26066440 Fax:	od Science and Techno rict, Shenzhen, Guang	ology Park, SanweiC		Anbotek O	Hotline 400–003–0500 anbotek.com



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1. General Information

1.1. Client Information

Applicant	Gopod Group Limited.
Address	6/F., 235 Wing Lok Trade Centre, Sheung Wan, Hong Kong
Manufacturer	Gopod Group Holding Ltd.
Address	4-6/F, Building 8, Lianjian Industrial Park, Hua Rong Road, Longhua, Shenzhen, China
Factory	Gopod Group Holding Ltd.
Address	4-6/F, Building 8, Lianjian Industrial Park, Hua Rong Road, Longhua, Shenzhen, China

1.2. Description of Device (EUT)

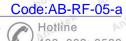
Product Name	:	Apple Watch Charger Multi-Fu	inction Power Bank			
Model No.	:	GD216B, GD216A (Note: All samples are the sam "GD216B" for test only.)	ne except the model name, so we prepare			
Trade Mark	:	Gmobi	Anbotek Anbote Ant hotek Anbotel			
Test Power Supply	:	AC 240V, 60Hz for adapter/ A0 DC 3.7V Battery inside	C 120V, 60Hz for adapter/			
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)				
		Operation Frequency:	110.1~205KHz			
Product		Modulation Type:	MSK			
Description	:	Antenna Type:	Inductive loop coil Antenna			
		Antenna Gain(Peak):	0 dBi			

1.3. Auxiliary Equipment Used During Test

ofer.	AUD.	ak how An tek how A.
Adapter	:	Manufacturer: ZTE
		M/N: STC-A2050I1000USBA-C
		S/N: 201202102100876
		Input: 100-240V~ 50/60Hz, 0.3A
		Output: DC 5V, 1000mA
Watch	:	Apple Watch - Series 2

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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						
Anbotek Anboten A	housek Anbotek Anbotek Anbotek Anbotek						
	For Conducted Emission						
Final Test Mode	Description						
Mode 1	Full load, Wireless charger module						
tek abotek Anbo	Ster And stek Mootek Anbour An botek						
rek aboter Anu	For Radiated Emission						

	Final Test Mode	Description	
1	Mode 1	Full load, Wireless charger module	n' nal

Note: (1)Test channel is 0.1272MHz.

(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.

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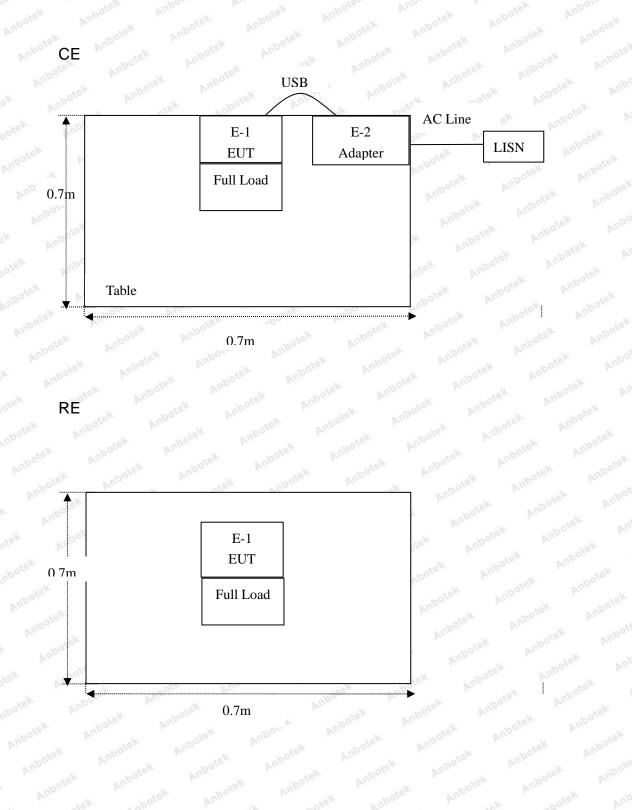


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1.5. Description Of Test Setup



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1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
unb1.tek	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
6.50	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	log Broadband Schwarzbeck VULB9163 V		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	15100041SN045	Nov. 05, 2018	1 Year
15.	Power Sensor	DAER	RPR3006W	15100041SN046	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-KHWS80 B	Anbotek N/A Anbotek	Nov. 01, 2018	1 Year

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1.7. 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

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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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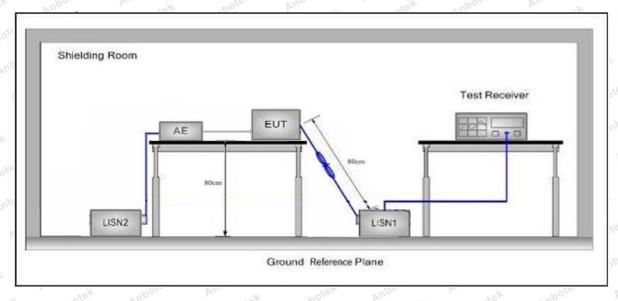
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3. Conducted Emission Test

3.1. Test Standard and Limit

	Frequency	Maximum RF L	Maximum RF Line Voltage (dBuV)			
	Frequency	Quasi-peak Level	Average Level			
Test Limit	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *			
	500kHz~5MHz	56 Million Lak	46			
	5MHz~30MHz	60 Anbou	50 mboter			

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.

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Please to see the following pages

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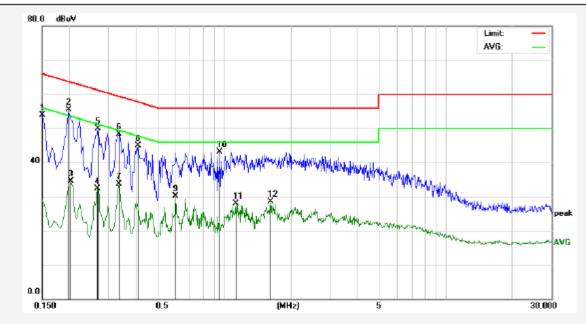
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Conducted Emission Test Data

Test Site:1# Shielded RoomOperating Condition:Mode 1Test Specification:AC 240V, 60Hz for adapterComment:Live LineTem.: 23.1°C Hum.: 57%



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBu∨	Over Limit (dB)	Detector	Remark
1	0.1500	34.02	19.90	53.92	65.99	-12.07	QP	
2	0.1980	35.57	19.90	55.47	63.69	-8.22	QP	
3	0.2020	14.62	19.90	34.52	53.52	-19.00	AVG	
4	0.2660	12.50	19.89	32.39	51.24	-18.85	AVG	
5	0.2700	30.10	19.89	49.99	61.12	-11.13	QP	
6	0.3339	28.47	19.91	48.38	59.35	-10.97	QP	
7	0.3339	13.71	19.91	33.62	49.35	-15.73	AVG	
8	0.4100	24.90	19.94	44.84	57.65	-12.81	QP	
9	0.6020	10.06	20.01	30.07	46.00	-15.93	AVG	
10	0.9540	23.00	20.11	43.11	56.00	-12.89	QP	
11	1.1260	7.84	20.12	27.96	46.00	-18.04	AVG	
12	1.6220	8.44	20.13	28.57	46.00	-17.43	AVG	

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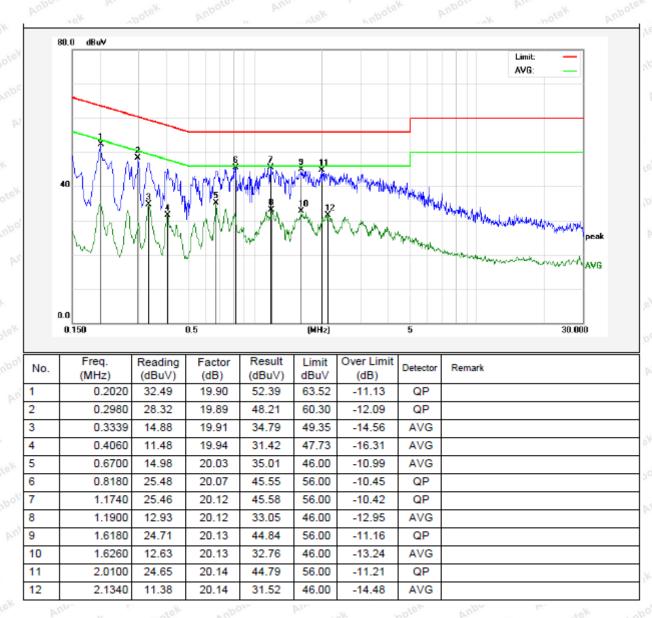
安博检测 Anbotek **Product Safety Anbotek Testing**

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Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 240V, 60Hz for adapter
Comment:	Neutral Line
	Tem.: 23.1℃ Hum.: 57%



%

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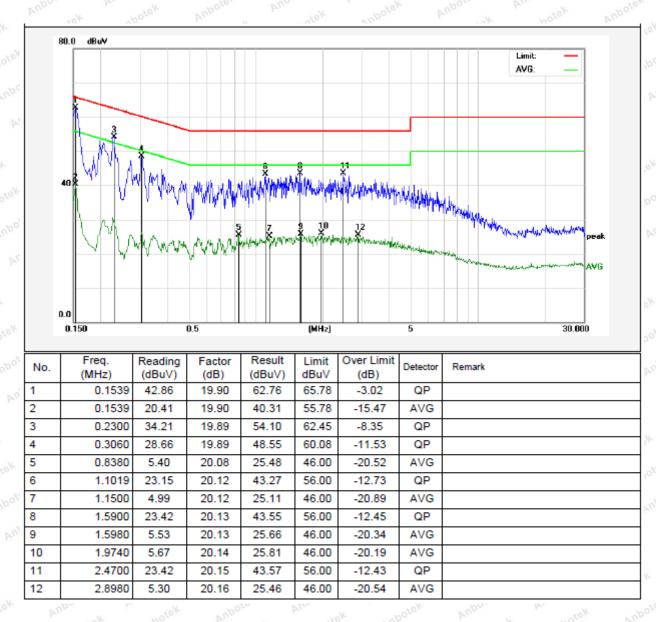
Anbotek Product Safety

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Conducted Emission Test Data

Test Site:	1# Shielded Room
Operating Condition:	Mode 1
Test Specification:	AC 120V, 60Hz for adapter
Comment:	Live Line
	Tem.: 23.1℃ Hum.: 57%



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Code:AB-RF-05-a

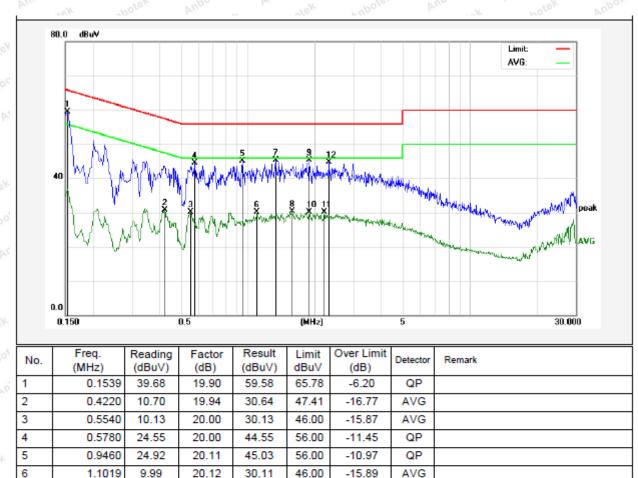
Anbotek 安博检测 **Product Safety Anbotek Testing**

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Conducted Emission Test Data

Test Site:	1# Shielded Room				
Operating Condition:	Mode 1				
Test Specification:	AC 120V, 60Hz for adapter				
Comment:	Neutral Line				
	Tem.: 23.1℃ Hum.: 57%				



45.30

30.34

45.36

30.16

30.03

44.78

56.00

46.00

56.00

46.00

46.00

56.00

-10.70

-15.66

-10.64

-15.84

-15.97

-11.22

QP

AVG

QP

AVG

AVG

QP

20.13

20.13

20.14

20.14

20.14

20.15

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7

8

9

10

11 12 1.3340

1.5780

1.8900

1.8900

2.2060

2.3300

25.17

10.21

25.22

10.02

9.89

24.63

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

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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

est Standard	FCC Part15 C Section 15	5.209 and 15.205			Anboy tek	
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz~0.490MHz	2400/F(kHz)	botek - Anboi	Plu -	300 m ^{ole}	
	0.490MHz-1.705MHz	24000/F(kHz)	Anbotek An	bon bu	potek 30 photo	
Test Limit 1.705MHz-30MHz 30MHz~88MHz 88MHz~216MHz	1.705MHz-30MHz	30	Anbotek	Anbo tek	30 M	
	30MHz~88MHz	100	40.0	Quasi-peak	3	
	88MHz~216MHz	150	43.5	Quasi-peak	3 otek	
	216MHz~960MHz	200	oo ^{tek} 46.0 pr ^{boot}	Quasi-peak	ek 3 Anbotek	
-	960MHz~1000MHz	500	54.0	Quasi-peak	potek 3 Anbol	
		500	54.0	Average	abote ⁴ 3 An	
	Above 1000MHz	boto And And	74.0	Peak	3	

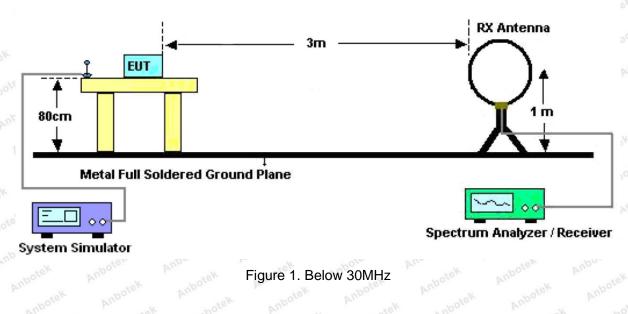
Remark:

Te

(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.

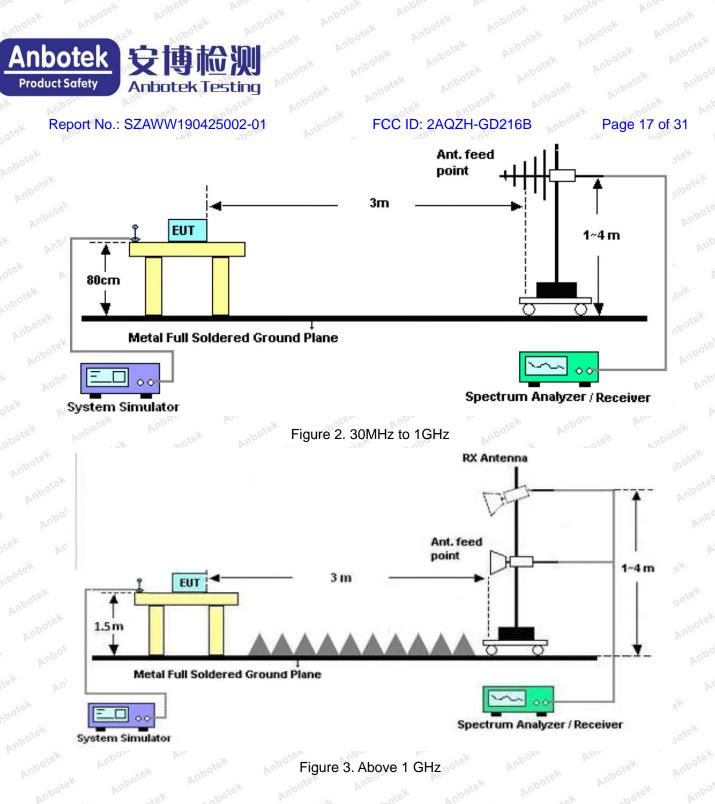
4.2. Test Setup



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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.

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(Between 9KHz –		And hotek Anbotek An	pour Ann abotek Anb
Job No.:	SZAWW190425002-01		
Standard:	FCC PART15 C _3m	Power Source:	AC 120V, 60Hz for adapter
Test item:	Radiation Test	Temp.(C)/Hum.(%RH):	24.3℃/54%RH
Test Mode:	Mode 1		24.3℃/54%RH 3m
	Mode 1		ootek Anbotek Anbote
Anbo	abotek Anbote	Ant otek Anbotek Ant	20° At botek Anb
140.0 dBwA	8.53°		ERS C. CLARV. S
S S S			Limit: —
			Margin:
P			
9			
70	3 1		
	1 × 2 × 3	5 X	
×	1 delay 1 literar	Whith \$	
T'M WWW	ALAN MANA MANA ANA ANA ANA ANA ANA ANA ANA	" Man water the water and the water and the	with your manufactor that the second
4			
К			

	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)
t	0.0592	48.85	19.28	2.53	0	70.66	132.05	-61.39	Peak	263
6	0.0592	41.00	19.28	2.53	0	62.81	112.05	-49.24	AV	263
T	0.0792	46.94	19.53	2.59	0	69.06	129.54	-60.48	Peak	145
2	0.0792	35.90	19.53	2.59	0	58.02	109.54	-51.52	AV	145
T	0.1272	60.21	19.53	2.59	0	82.33	125.45	-43.12	Peak	63
2	0.1272	49.13	19.53	2.59	0	71.25	105.45	-34.20	AV	63
Ι	0.1590	43.22	19.53	2.59	0	65.34	123.52	-58.18	Peak	228
Ι	0.1590	34.08	19.53	2.59	0	56.20	103.52	-47.32	AV	228
Ι	0.3578	47.04	19.53	2.59	0	69.16	116.51	-47.35	Peak	306
I	0.3578	38.32	19.53	2.59	0	60.44	96.51	-36.07	AV	306
Ι	0.5260	27.01	20.66	2.63	0	50.30	73.18	-22.88	QP	89
te	4 anb	or P	rek	boten	Anb	14. 14.	atek	npore	Pur	N N

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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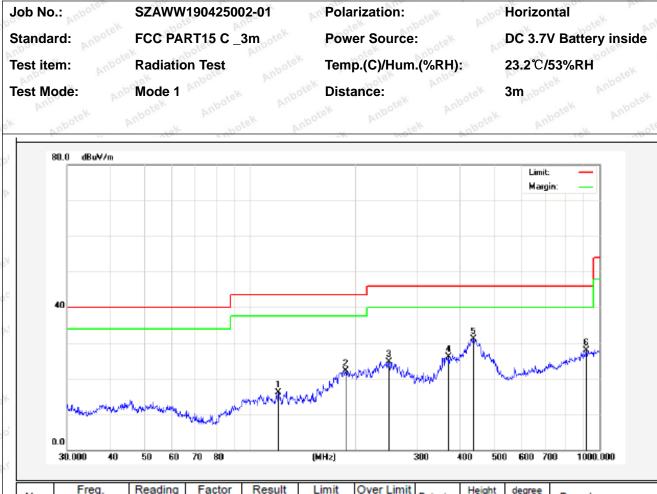
Code:AB-RF-05-a



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No	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark]
1	120.2766	39.55	-23.41	16.14	43.50	-27.36	QP	300	0		1
2	187.7530	44.00	-21.80	22.20	43.50	-21.30	QP	300	31		1
3	249.4250	44.16	-19.38	24.78	46.00	-21.22	QP	300	97		e
4	369.4047	40.74	-14.62	26.12	46.00	-19.88	QP	300	127		1
5	435.5898	44.76	-13.57	31.19	46.00	-14.81	QP	300	226		0
6	916.0687	33.64	-5.73	27.91	46.00	-18.09	QP	300	360		1
0.0		(R)) ⁻	AV	- T	37	01	INVE		1.03	s	10

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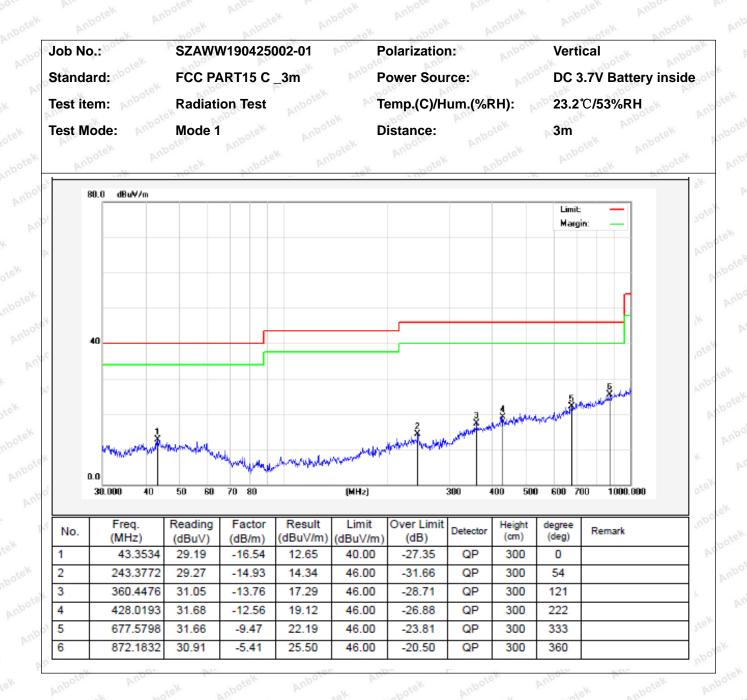
Address: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86)755-26066440 Fax:(86)755-26014772 Email:service@anbotek.com

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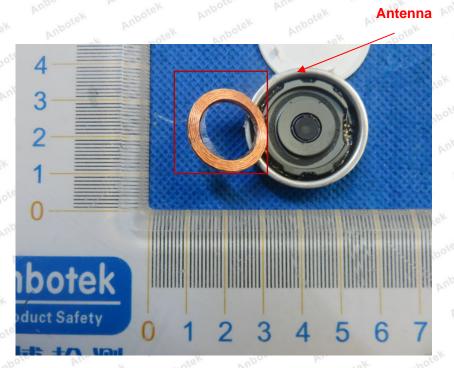
5. Antenna Requirement

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

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

Photo of Conducted Emission Measurement



Photo of Radiation Emission Test



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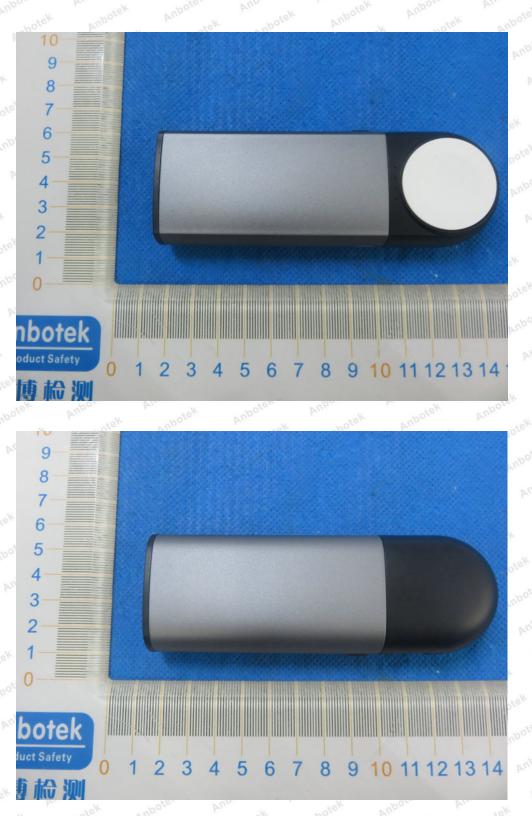




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APPENDIX II -- EXTERNAL PHOTOGRAPH



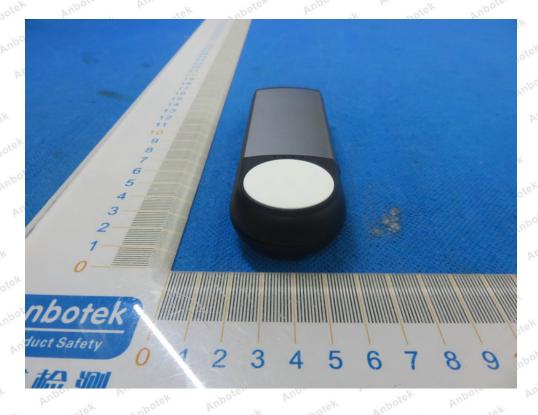
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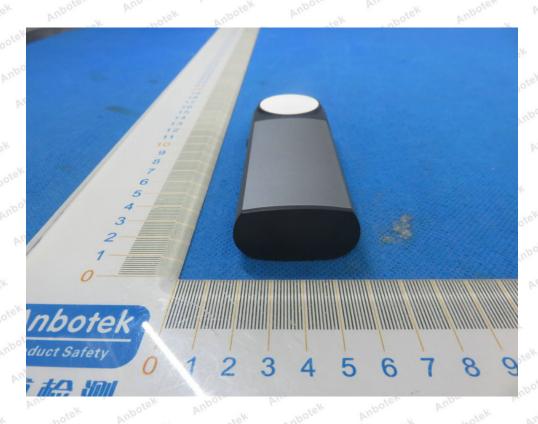
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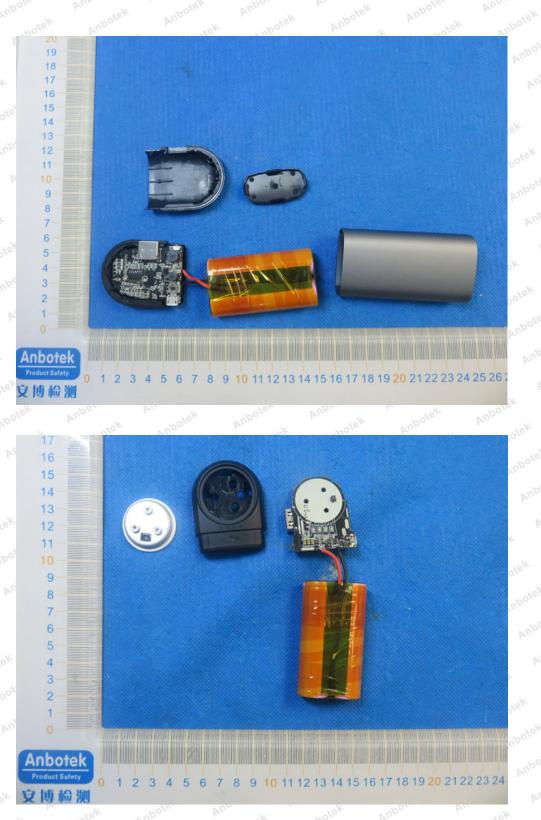
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APPENDIX III -- INTERNAL PHOTOGRAPH



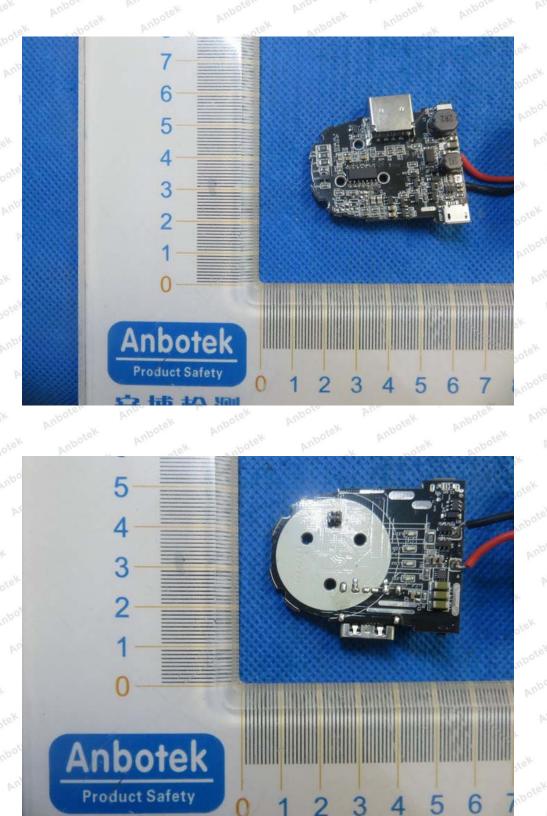
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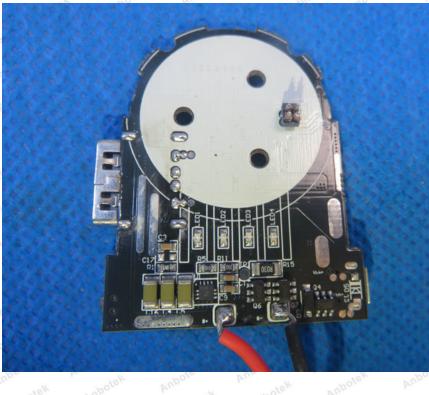
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