

 Report No.: 18220WC10029001
 FCC ID: 2AQZHGN373B
 Page 1 of 22

# FCC TEST REPORT

Client Name : Gopod Group Limited.

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

Product Name : Apple Watch Wireless Charger

Date

Mar. 04, 2021



### 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

# Code:AB-RF-05-a



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# TEST REPORT

Applicant	No <sub>1</sub>	Gopod Group Limited.
Manufacturer	ie	Gopod Group Holding Limited.
Product Name	100.	Apple Watch Wireless Charger
Model No.	Ant	GN373B, GN373A
Trade Mark		Gmobi
Rating(s)	e¥.	Input: DC 5V, 1A Output: 2.5W

# Test Standard(s): FCC Part15 Subpart C, Paragraph 15.209Test 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

Feb. 05, 2021 Feb. 05~24, 2021

Tilia Zhong

(Engineer / Yilia Zhong)

Bibs thang

(Supervisor / Bibo Zhang)

King Kong Jin

(Manager / Kingkong Jin)

Shenzhen Anbotek Compliance Laboratory Limited

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Hotline 400-003-0500 www.anbotek.com

potek Anbore

Reviewer

Approved & Authorized Signer



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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 China
Manufacturer	: Gopod Group Holding Limited.
Address	<ul> <li>4-5-6/F, Building 8 &amp; 1F, Building 3#&amp; 4F, Building 6, LianJian Science and</li> <li>Technology Industrial Park, HuaRong Rd, Tongsheng Community, DaLang</li> <li>Street, LongHua District, Shenzhen</li> </ul>
Factory	: Gopod Group Holding Limited.
Address	<ul> <li>4-5-6/F, Building 8 &amp; 1F, Building 3#&amp; 4F, Building 6, LianJian Science and</li> <li>Technology Industrial Park, HuaRong Rd, Tongsheng Community, DaLang Street, LongHua District, Shenzhen</li> </ul>

# 1.2. Description of Device (EUT)

Product Name	:	Apple Watch Wireless Ch	arger
Model No.	:	GN373B, GN373A (Note: All samples are the for test only.)	e same except the color, so we prepare "GN373B"
Trade Mark	:	Gmobi	Anbotek Anbotek Anbotek Anbotek Anbot
Test Power Supply	:	AC 120V, 60Hz for adapte	er / AC 240V, 60Hz for adapter
Test Sample No.	:	1-2-1(Normal Sample), 1-	2-1(Engineering Sample)
	: Ante	Operation Frequency:	110.1-205KHz
Product		Modulation Type:	FSK house house
Description		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	:	Model: A1540
		Input: 100-240V~0.5A 50-60Hz
		Output:DC14.5V, 2.0A(USB PD)/DC 5.2V2.4A
Apple Watch	:	M/N: WR-50M

# 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		ok ba	Wireless Charge Mode					Anbo	
otek	Anbotek	Aupo	A Mar	botek	Anboreh	Pup	otek	Anboteh	PL
			For	Conducte	ed Emissior	ו			
F	inal Test Mo	de			De	scription			
PUL	Mode 1	nbotek	Anbo	Jek h.	Wireless	Charge	Mode	botek	Anbotek
P	100	Her	eup.	y. y	Ya.	bor	P	100	in a second s

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

# Note: (1) Test channel is 0.1330MHz.

- (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) Remark: All the conditions have been tested. It is found that Wireless Output(2.5W) work simultaneously is the worst mode, and the data in the report only reflects the worst mode.

### **Shenzhen Anbotek Compliance Laboratory Limited**

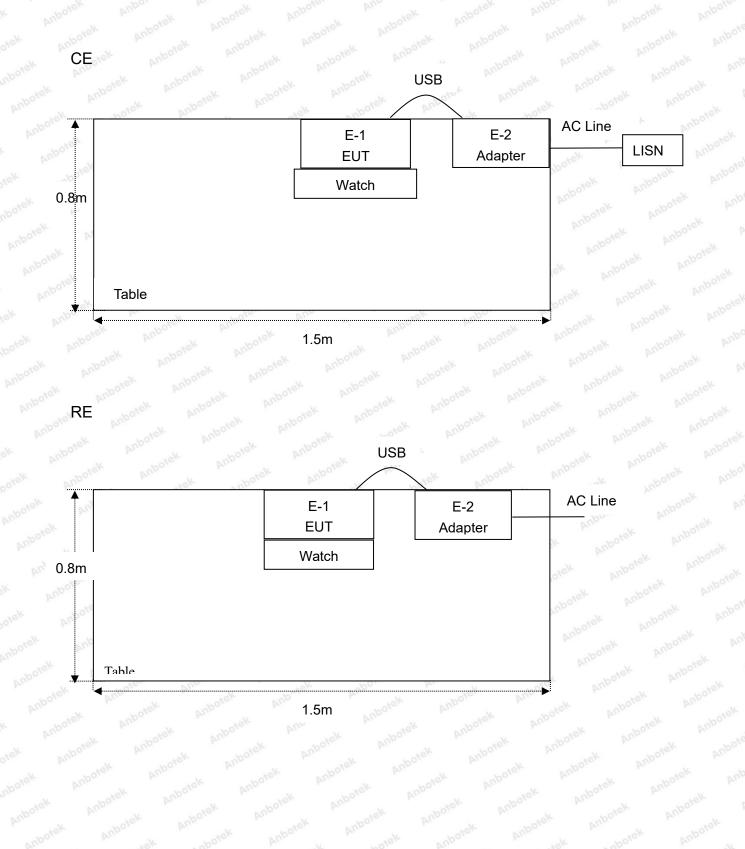
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# 1.5. Description Of Test Setup



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# 1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
otek 1.	L.I.S.N. 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
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
6.010	Preamplifier	SKET Electronic	BK1G18G30 D	KD17503	Oct. 26, 2020	1 Year
7.	Double Ridged Horn Antenna	Instruments corporation	GTH-0118	351600	Nov. 02, 2020	2 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Nov. 02, 2020	2 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Nov. 02, 2020	2 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	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	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	15I00041SN046	Oct. 26, 2020	1 Year
16.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 26, 2020	1 Year
17.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 26, 2020	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 Model	Oct. 26, 2020	1 Year

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# 1.7. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	ek Al			nbotek
		Ur = 3.8 dB (Vertical)	botek	Anboten	And hotek	Anbotek
		potek Anbo A	nbotek	Anbote	Anny hotek	Anbo
Conduction Uncertainty	:	Uc = 3.4 dB	Anbotek	Anboro	k potek	- Pic

# 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

### Shenzhen Anbotek Compliance Laboratory Limited

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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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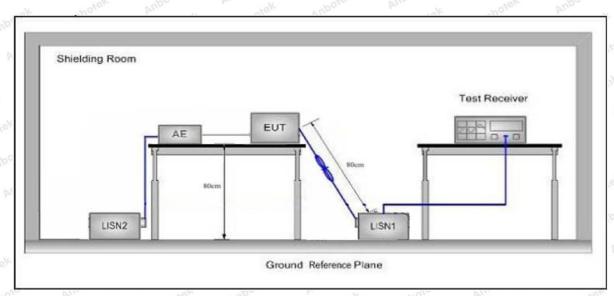
# 3. Conducted Emission Test

# 3.1. Test Standard and Limit

FCC Part15 Section 15.20	7					
Frequency	Maximum RF Line Voltage (dBuV)					
Frequency	Quasi-peak Level	Average Level				
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				
	Frequency       150kHz~500kHz       500kHz~5MHz	Frequency     Quasi-peak Level       150kHz~500kHz     66 ~ 56 *       500kHz~5MHz     56				

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

### Shenzhen Anbotek Compliance Laboratory Limited

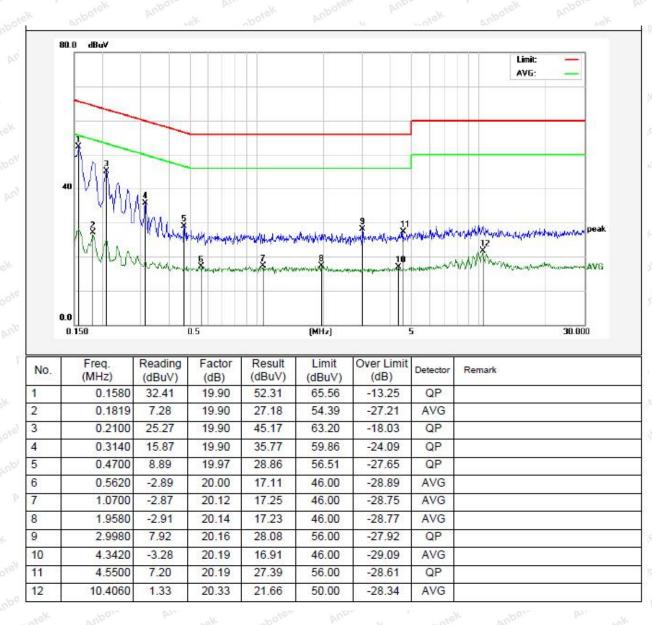
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# Code:AB-RF-05-a

### Report No.: 18220WC10029001 Page 11 of 22 FCC ID: 2AQZHGN373B **Conducted Emission Test Data** Test Site: 1# Shielded Room **Operating Condition:** Mode 1 Test Specification: AC 120V, 60Hz for adapter

Comment:

Live Line Tem.: 21.6°C Hum.: 50%



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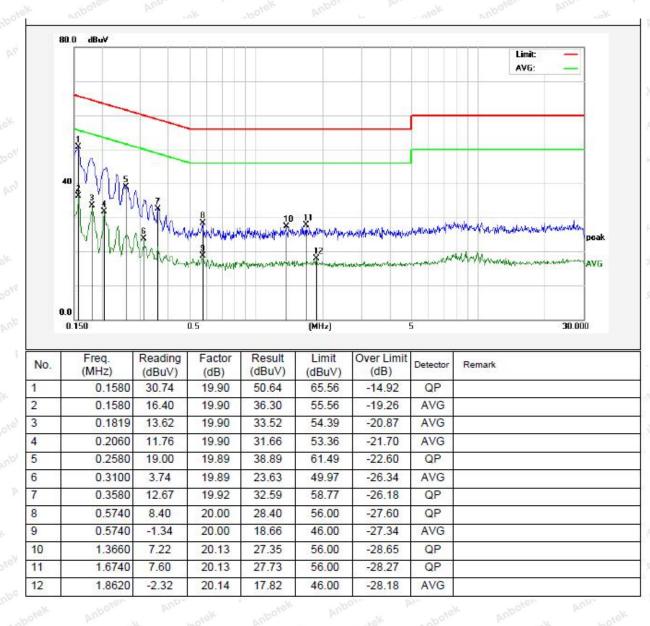
# Code:AB-RF-05-a

Hotline (C) Houme 400-003-0500 www.anbotek.com

# Report No.: 18220WC10029001 FCC ID: 2AQZHGN373B Page 12 of 22

# 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.: 21.6℃ Hum.: 50%



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# Code:AB-RF-05-a

# Report No.: 18220WC10029001FCC ID: 2AQZHGN373BPage 13 of 22Conducted Emission Test DataTest Site:1# Shielded RoomOperating Condition:Mode 1Test Specification:AC 240V, 60Hz for adapterComment:Live Line

Tem.: 21.6°C Hum.: 50%

80.0 dBuV Limit AV6: 40 an philade to continue of the second and the AVG 0.0 30.000 0.150 0.5 (MHz) 5 Reading Factor Result Limit Over Limit Freq. Detector Remark No. (dBuV) (MHz) (dB) (dBuV) (dBuV) (dB) 19.90 0.1580 28.14 48.04 65.56 -17.52 QP 1 2 0.1580 10.23 19.90 30.13 55.56 -25.43 AVG QP 3 0.1819 25.02 19.90 44.92 64.39 -19.47 23.59 19.90 43.49 63.20 QP 0.2100 -19.714 13.95 19.90 33.85 59.86 -26.01 QP 5 0.3140 6 0.4460 10.18 19.96 30.14 56.95 -26.81 QP 9.20 20.01 29.21 -26.79 QP 7 0.6100 56.00 0.6260 -1.99 20.02 18.03 46.00 -27.97 AVG 8 -28.73 1.1700 -2.85 20.12 17.27 46.00 AVG 9 10 1.4780 -2.57 20.13 17.56 46.00 -28.44 AVG 11 1.9700 -2.56 20.14 17.58 46.00 -28.42 AVG

### Shenzhen Anbotek Compliance Laboratory Limited

2.73

12

13.4980

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20.28

23.01

50.00

-26.99

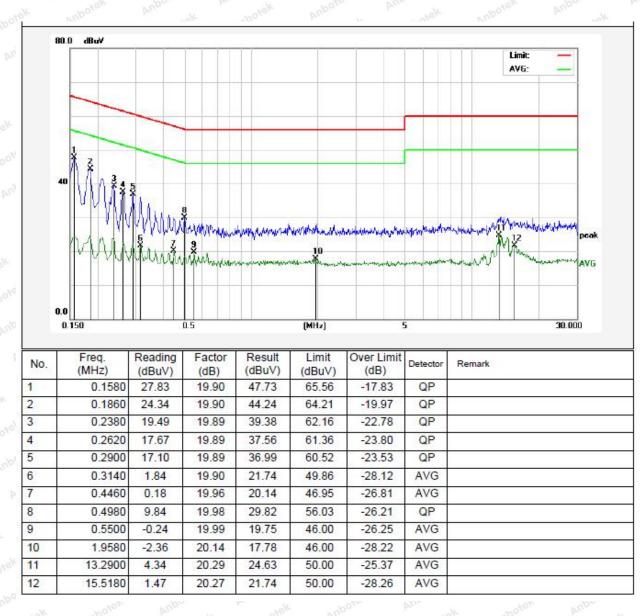
AVG

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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.: 21.6℃ Hum.: 50%



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# 4. Radiation Spurious Emission and Band Edge

# 4.1. Test Standard and Limit

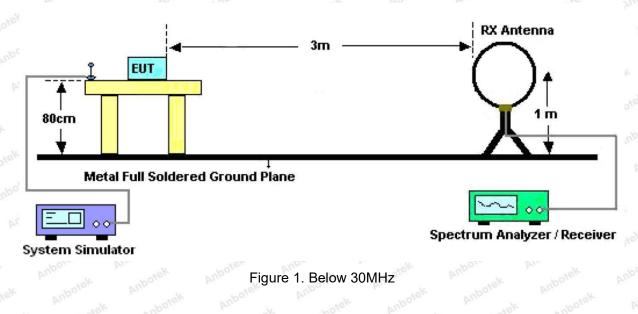
Test Standard	FCC Part15 C Section 15.209 and 15.205								
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz~0.490MHz	2400/F(kHz)	Ano	Anbotek	300				
	0.490MHz-1.705MHz	24000/F(kHz)	And hotek	Andotek	30				
	1.705MHz-30MHz	30	And And	K Anbotek	30				
Fest Limit	30MHz~88MHz	100	40.0	Quasi-peak	3				
	88MHz~216MHz	150	43.5	Quasi-peak	3				
	216MHz~960MHz	200	46.0	Quasi-peak	Antonia 3				
	960MHz~1000MHz	500 moore	54.0	Quasi-peak	Anto 3				
		500	54.0	Average	3				
	Above 1000MHz	Nnbotek 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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# Code:AB-RF-05-a



# 

Figure 2. 30MHz to 1GHz

# 4.3. Test Procedure

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.

### Shenzhen Anbotek Compliance Laboratory Limited

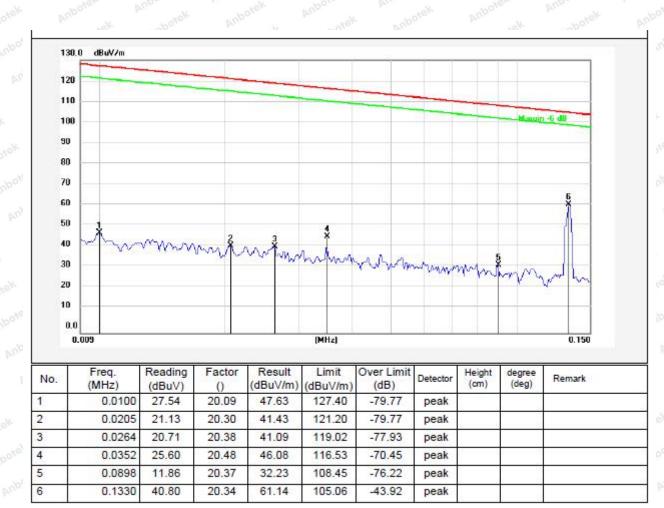
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Distance:

# Report No.: 18220WC1002901 FCC ID: 2AQZHGN373B Page 17 of 22 Test Results (9K~0.15MHz) Mode 1 East Component of the second seco

3m

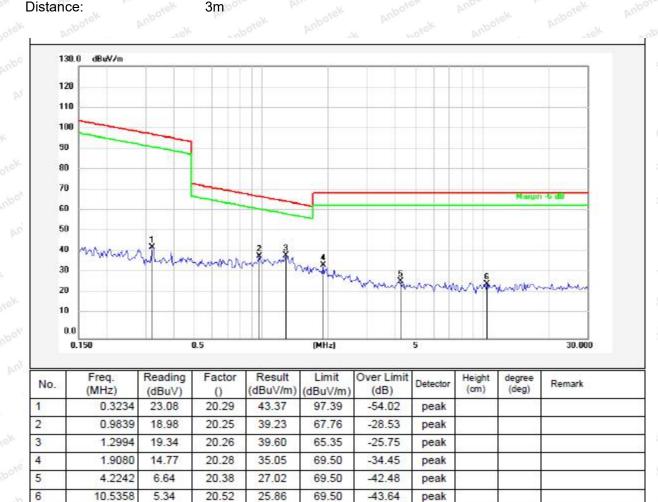


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# Code:AB-RF-05-a

# Report No.: 18220WC1002901 FCC ID: 2AQZHGN373B Page 18 of 22 Test Results (0.15~30MHz) Mode 1 East Component of the second seco



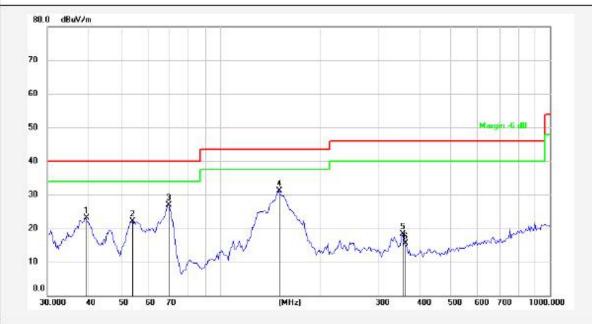
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# Report No.: 18220WC1002901FCC ID: 2AQZHGN373BPage 19 of 22Test Results (30~1000MHz)Mode 1Test Mode:Mode 1Power Source:AC 120V, 60Hz for adapter

AC 120V, 60Hz for adapte
Vertical
22.1°C/50%RH
a 3m motel Mabor



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	39.0245	38.91	-15.82	23.09	40.00	-16.91	peak			
2	54.4516	38.10	-16.09	22.01	40.00	-17.99	peak			
3	69.6005	47.07	-20.24	26.83	40.00	-13.17	peak	1		
4	150.5378	51.38	-20.33	31.05	43.50	-12.45	peak	1		
5	358.5568	33.76	-15.50	18.26	46.00	-27.74	peak			
6	364.8987	30.87	-15.41	15.46	46.00	-30.54	peak	97	:	

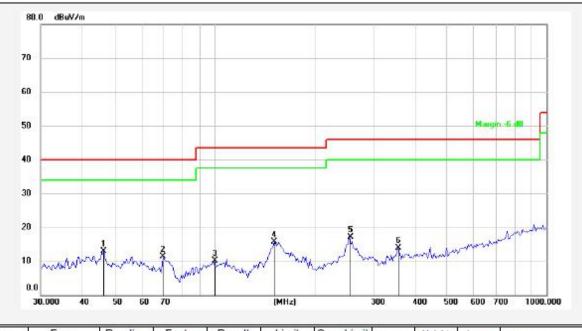
### Shenzhen Anbotek Compliance Laboratory Limited

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

# Code:AB-RF-05-a

# Report No.: 18220WC10029001 FCC ID: 2AQZHGN373B Page 20 of 22 Test Results (30~1000MHz) Mode 1 Mode 1

Power Source:	AC 120V, 60Hz for adapter
Polarization:	Horizontal
Temp.(℃)/Hum.(%RH):	22.1°C/50%RH
Distance:	3m hotek Anbol



No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	46.5030	28.62	-15.70	12.92	40.00	-27.08	peak	2		2
2	70.2132	31.76	-20.44	11.32	40.00	-28.68	peak			Ū.
3	99.7028	25.89	-15.71	10.18	43.50	-33.32	peak			
4	151.8632	35.95	-20.27	15.68	43.50	-27.82	peak			-
5	254.7284	33.21	-16.19	17.02	46.00	-28.98	peak	5 - S		97
6	358.5568	29.37	-15.50	13.87	46.00	-32.13	peak			

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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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# Code:AB-RF-05-a



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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 -----

### Shenzhen Anbotek Compliance Laboratory Limited

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