

TEST REPORT

Product Name	:	Hearing Protection
Model Number	:	GWP-RPHE-BT
FCC ID	:	2AU3A-RPHEBT
IC	:	25750-RPHEBT

Prepared for Address	:	Good Sportsman Marketing, LLC 5250 Frye Rd,Irving,TX75061,United States				
Prepared by Address	:	EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China				
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Report Number	:	ES200415023W				

	-		
Date(s) of Tests	:	April 15, 2020 to June 01,	2020

Date of issue : June 01, 2020



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1 TEST RESULT CERTIFICATION

Applicant:	Good Sportsman Marketing, LLC 5250 Frye Rd,Irving,TX75061,United States	
Manufacture:	NINGBO HONGSHUO ELECTRONICS & APPLIANCE CO., LTD Zhangqi Industry Zone, Cixi Ningbo, Zhejiang, China	
Product Description:	Hearing Protection	
Model Number:	GWP-RPHE-BT	
Trade Mark:	Walker's	

Measurement Procedure Used:

APPLICABLE STANDARDS					
STANDARD TEST RESULT					
FCC 47 CFR Part 2 2018, Subpart J FCC 47 CFR Part 15 2018, Subpart C IC RSS-GEN, Issue 5, March 2019 IC RSS-247 Issue 2, February 2017.	PASS				

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 2018 & IC RSS-GEN, Issue 5 March 2019 and Part 15.247 2018 & IC RSS-247 Issue 2, February 2017.

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	April 15, 2020 to June 01, 2020				
	Abel Wu				
Prepared by:	Abel Wu /Editor				
Reviewer:	Joe Xia ***				
	Joe Xia /Supervisor				
Approve & Authorized Signer :	Lisa Wang/Manager				



2 GENERAL INFORMATION

2.1 EUT TECHNICAL DESCRIPTION

Characteristics	Description		
Product Name	Hearing Protection		
Model number	GWP-RPHE-BT (Note: It has different colors)		
Device Type	Bluetooth V4.0 Signal mode		
Data Rate	1Mbps for GFSK modulation 2Mbps for pi/4-DQPSK modulation 3 Mbps for 8DPSK modulation		
Modulation	GFSK modulation (1Mbps) pi/4-DQPSK modulation (2Mbps) 8DPSK modulation (3Mbps)		
Operating Frequency Range	2402-2480MHz		
Number of Channels	79 channels		
Max Transmit Power	1.29 dBm		
Antenna Type	PCB Antenna		
Gain	2dBi		
Power supply	DC 3.7V		
Temperature Range	-40°C ~ +105°C		
Product SW/HW version	V4.1		
Radio SW/HW version V1.0			
Test SW Version	V1.0		

Note: for more details, please refer to the User's manual of the EUT.



3 SUMMARY OF TEST RESULT

FCC PartClause	Test Parameter	Verdict	Remark
FCC Part 15.247(a)(1)	20dB Bandwidth	PASS	
RSS-247 Clause 5.1(a) RSS-Gen 6 7	99% Occupied Bandwidth	PASS	
FCC Part 15,247(a)(1)		1,00	
RSS-247 Clause 5.1(b)	Carrier Frequency Separation	PASS	
FCC part 15.247(a)(1)(iii)	Number of Hopping Frequencies	PASS	
FCC part 15 247(a)(1)(iii)			
RSS-247 Clause 5.1(d)	Average Time of Occupancy (Dwell Time)	PASS	
FCC Part 15.247(b)(1)	Maximum Peak Conducted Output Power	PASS	
RSS-247 Clause 5.4(b)		17,66	
FCC Part 15.247(d)	Conducted Spurious Emissions	PASS	
RSS-247 Clause 5.5			
FCC Part 15.247(d) & FCC Part	Dedicted Courieurs Enviroisme	DACC	
15.205 DSS 047 Clause 0.0	Radiated Spurious Emissions	PASS	
R35-247 Clause 3.3			
RSS-Gen Clause 8.8	Conducted Emission	N/A	
FCC Part 15 247(b)(4) and Part	Antenna Application		
15.203		PASS	
RSS-Gen Clause 6.8			
NOTE1:N/A (Not Applicable)		I	ł
,, <i>,</i>			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AU3A-RPHEBT filing to comply with Section 15.247 of the

FCC Part 15, Subpart C.

This submittal(s) (test report) is intended for IC: 25750-RPHEBT filing to comply with RSS 247 Clause 5 of the IC.



4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C IC RSS-GEN, Issue 5, March 2019 IC RSS-247 Issue 2, February 2017 FCC KDB 558074 D01 15.247 Meas Guidance V05r02

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	May 17, 2020	May 16, 2021
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	May 17, 2020	May 16, 2021
50Ω Coaxial Switch	Anritsu	MP59B	M20531	May 17, 2020	May 16, 2021

4.2.2 Radiated Emission Test Equipment

EQUIPMENT	MFR	MODEL	SERIAL	LAST CAL.	DUE CAL.
TYPE		NUMBER	NUMBER		
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 18, 2020	May 17, 2021
Pre-Amplifier	HP	8447F	2944A07999	May 17, 2020	May 16, 2021
Bilog Antenna	Schwarzbeck	VULB9163	142	May 17, 2020	May 16, 2021
Loop Antenna	ARA	PLA-1030/B	1029	May 17, 2020	May 16, 2021
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	May 18, 2020	May 17, 2021
Horn Antenna	Schwarzbeck	BBHA 9120	D143	May 17, 2020	May 16, 2021
Cable	Schwarzbeck	AK9513	ACRX1	May 18, 2020	May 17, 2021
Cable	Rosenberger	N/A	FP2RX2	May 18, 2020	May 17, 2021
Cable	Schwarzbeck	AK9513	CRPX1	May 18, 2020	May 17, 2021
Cable	Schwarzbeck	AK9513	CRRX2	May 18, 2020	May 17, 2021

4.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.	DUE CAL.
Spectrum Analyzer	Agilent	E4407B	88156318	May 18, 2020	May 17, 2021

Remark: Each piece of equipment is scheduled for calibration once a year.

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4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for Bluetooth GFSK modulation; 2Mbps for Bluetooth pi/4-DQPSK modulation; 3Mbps for Bluetooth 8DPSK modulation) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	39	2441		
1	2403	40	2442	76	2478
2	2404	41	2443	77	2479
				78	2480
Note: fc=2402MHz+(k-1)×1MHz k=1 to 79					

Frequency and Channel list for Bluetooth V4.0

Test Frequency and channel for Bluetooth V4.0

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	39	2441	78	2480



5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description				
EMC Lab. :	Accredited by CNAS, 2018.11.30 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017) The Certificate Registration Number is L2291.			
	Accredited by FCC, August 06, 2018 The certificate is valid until August 07, 2020 Designation Number: CN1204 Test Firm Registration Number: 882943			
	Accredited by A2LA, August 08, 2018 The certificate is valid until August 31, 2020 The Certificate Number is 4321.01.			
	Accredited by Industry Canada, November 09, 2018 The Conformity Assessment Body Identifier is CN0008.			
Name of Firm : Site Location :	EMTEK (SHENZHEN) CO., LTD. Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China			
5.3 TEST SOFTWARE Item Conducted Emission	Software : EMTEK(Ver.CON-03A1)-Shenzhen			

Radiated Emission : EMTEK(Ver.RA-03A1)-Shenzhen

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5°C
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%

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7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT androtated about its vertical axis formaximum response at each azimuth about the EUT. The center of the loopshall be 1 m above the ground.For certain applications, the loop antennaplane may also need to be positioned horizontally at the specified distance from the EUT.

30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360° , and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



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(b)Radiated Emission Test Set-Up, Frequency Below 1000MHz

(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (Game fitness board) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



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7.4 SUPPORT EQUIPMENT

EUT Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
1	/	/	/

Auxiliary Cable List and Details

Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details					
Description	Manufacturer	Model	Serial Number		
1	/	/	/		

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



8 FREQUENCY HOPPING SYSTEM REQUIREMENTS

8.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

8.2 EUT Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels.

The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master; thephase in the hopping sequence is determined by the Bluetooth clock of the master. The channel is divide into time slots where each slot corresponds to an RF hop frequency. Consecutive hopscorrespond to different RF hop frequencies. The normal hop is 1 600 hops/s.

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage, and the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones. Number of shift register stages: 9

Length of pseudo-random sequence: 29-1 = 524 bits Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence



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Each frequency used equally on the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

8.3 Equal Hopping Frequency Use

All Bluetooth units participating in the piconet are time and hop-synchronized to the channel.

Example of a 79 hopping sequence in data mode:

35, 27, 6, 44, 14, 61, 74, 32, 1, 11, 23, 2, 55, 65, 29, 3, 9, 52, 78, 58, 40, 25, 0, 7, 18, 26, 76, 60, 47, 50, 2, 5, 16, 37, 70, 63, 66, 54, 20, 13, 4, 8, 15, 21, 26, 10, 73, 77, 67, 69, 43, 24, 57, 39, 46, 72, 48, 33, 17, 31, 75, 19, 41, 62, 68, 28, 51, 66, 30, 56, 34, 59, 71, 22, 49, 64, 38, 45, 36, 42, 53 Each Frequency used equally on the average by each transmitter

8.4 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH- enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.



9 TEST REQUIREMENTS

9.1 20DB BANDWIDTH

9.1.1 Applicable Standard

According to FCC Part 15.247(a)(1), RSS-247 Clause 5.1(a), 558074 D01 15.247 Meas Guidance V05r02

9.1.2 Conformance Limit

No limit requirement.

9.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.1.4 Test Procedure

The EUT was operating inBluetooth V4.0 and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 30 kHz. OBW for 99% BANDWIDTH

Set the video bandwidth (VBW) =100kHz.

Set Span= approximately 2 to 3 times the 20 dB bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize.Use the marker-to-peak function to set the marker to the peak of the emission. Use themarker-delta function to measure 20 dB down one side of the emission. Reset the markerdeltafunction, and move the marker to the other side of the emission, until it is (asclose as possible to) even with the reference marker level. The marker-delta reading atthis point is the 20 dB bandwidth of the emission.

If this value varies with differentmodes of operation (e.g., data rate, modulation format, etc.), repeat this test for eachvariation.

Measure and record the results in the test report.

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Test Results

Temperature: Humidity:	25℃ 45 %	Test D Test B	Date: Ma By: XV	ay 12, 2020 V	
Modulation	Channel	Channel Frequency	20dB Bandwidth	n 2/3 of 20dB	99%
Mode	Number	(MHz)	(kHz)	Bandwidth (kHz)	Bandwidth(KHz)
	0	2402	846.60	564.40	846.60
GFSK	39	2441	890.00	593.33	859.62
	78	2480	824.90	549.93	859.62
	0	2402	1220.00	813.33	1059.33
pi/4-DQPSK	39	2441	1172.20	781.47	1167.87
	78	2480	1259.00	839.33	1163.53
	0	2402	1241.70	827.80	1146.16
8DPSK	39	2441	1254.70	836.47	1163.53

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2480

1254.70

836.47

1154.85

















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