



시험 성적서

TEST REPORT

페이지(page) : (1) / (총(Total) 5)

성적서 번호 Report No.		ICRT-TR-E212449-0A	
신청자 Client	기관명 Name	Whoborn Inc.	
	주 소 Address	20, Omok-ro 24-gil, Yangcheon-gu, Seoul	
시험대상품목 Sample description		MRH(Mixed Reality Headset)	
모델명 Type designation		MRH-100	
정 격 Ratings		DC 3.7 V	
시험장소 Place of test		☒ 고정시험(Inside test) ☐ 현장시험(Field test) 주소지(Address): 112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		7. Aug. 2021 ~ 10. Aug. 2021	
시험방법/항목 Test Method/Item		FCC rule §1.1310	
시험결과 Test Results		Refer to 3. Maximum Permissible Exposure	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성 명 Name Yeong-Hwan, Hong (Signature)	성 명 Name Min-Gi, Son (Signature)	
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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E212449-0A	14. Oct. 2021	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	Whoborn Inc.
Address	20, Omok-ro 24-gil, Yangcheon-gu, Seoul
Contact Person	Youngsik Bae
Telephone No.	+82-10-6319-6090
Fax No.	+82-2-2694-6090
E-mail	manager@whoborn.net

1.2 Manufacturer Information

Manufacturer	Whoborn Inc.
Address	20, Omok-ro 24-gil, Yangcheon-gu, Seoul

1.3 Test Laboratory Information

Conducted tests were performed at	
Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
RRA No.	KR0165
KOLAS No.	KT652
Test Firm Registration Number	490614



2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	MRH(Mixed Reality Headset)
Brand Name	-
Model Name	MRH-100
Additional Model Name	-
FCC ID	2A3G5MRH-100
Hardware Version	1.0
Software Version	1.0
Power Supply	DC 3.7 V
EUT Serial Number	Test 1

2.2 Additional Information

Equipment Class	DTS-Digital Transmission System	
Device Type	Stand-alone	
Operating Frequency	2 402 MHz ~ 2 480 MHz	
RF Output Power	4.05 dBm	
Number of Channel	40	
Modulation Type	GFSK	
Antenna Type	PCB Antenna / Chip Antenna	
Antenna Gain	PCB Antenna	-6.04 dBi
	Chip Antenna	0.5 dBi
Antenna Operating Mode	Single device with two antennas (The two antennas operate in a diversity method)	
List of Each Oscillator or Crystal Frequency	24 MHz	

2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test with set at Low Channel, Middle Channel, and High Channel.
To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, YZ, XZ planes.

2.4 Modifications of EUT

- None

2.5 Reason of Additional Model Name

Additional model name	Differential point
MRH-100	The reason is simple model name addition.



3. Maximum Permissible Exposure

3.1 RF Exposure calculation

According to the FCC rule §1.1310 the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 MHz ~ 100 000 MHz.

Kind of EUT	SmartGolf Club
Operating Frequency Band	☐ WLAN(802.11b/g/n(HT20)): 2 412 MHz ~ 2 462 MHz ☐ WLAN(802.11n(HT40)): 2 422 MHz ~ 2 452 MHz ☐ WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz ☐ WLAN: 5 745 MHz ~ 5 825 MHz ☒ Bluetooth: 2 402 MHz ~ 2 480 MHz
Max. Output Power	1.57 dBm
Exposure Evaluation Applied	☐ MPE ☐ SAR ☒ N/A

3.2 Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= (2.85/5) \times \sqrt{2.480} = 0.90$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Operating Mode	Frequency (MHz)	Target Power W / tolerance	Max tune up power		Separation distance (mm)	RF exposure	Limit
		(dBm)	(dBm)	(mW)			
Bluetooth LE	2 480	4.05 ± 0.5	4.55	2.85	5.0	0.90	3.00

- END OF REPORT.