

TEST REPORT

Product Name : Wireless Headphones
Brand Mark : TRUEFREE
Model No. : A1
Extension model : B1, C1, D1, E1, F1, G1, H1, J1, K1, T1
FCC ID : 2A5BOHQY001
Report Number : BLA-EMC-202203-A0503
Date of Sample Receipt : 2022/3/3
Date of Test : 2022/3/3 to 2022/3/25
Date of Issue : 2022/3/25
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB 447498
Test Result : Pass

Prepared for:

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Date:



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/3/25	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

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2 GENERAL INFORMATION

Applicant	shenzhenshihanqiyuankejiyouxiangongsi
Address	1309, block B, Huihai Plaza, Chuangye Road, Longhua street, Longhua District, Shenzhen, Guangdong, China shenzhen guangdong China 518109
Manufacturer	shenzhenshihanqiyuankejiyouxiangongsi
Address	1309, block B, Huihai Plaza, Chuangye Road, Longhua street, Longhua District, Shenzhen, Guangdong, China
Factory	Guangzhou U&I Technology Co.,Ltd
Address	Room 08,4th Floor,Building No.15,Vtrek Innovation industrial park,
Product Name	Wireless Headphones
Test Model No.	A1
Extension mode	B1, C1, D1, E1, F1, G1, H1, J1, K1, T1
Note	All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are model name for commercial purpose.

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	N/A
Software Version	N/A
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Chip Antenna
Antenna Gain:	4dBi(Provided by the applicant)

4 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

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No tests were sub-contracted.

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5 RF EXPOSURE COMPLIANCE REQUIREMENT

5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 LIMITS

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.3 EUT RF EXPOSURE

Operational Mode: EDR(8DPSK)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	1.734	± 1	2.734	1.88	0.58	3.0
2441 MHz	1.076	± 1	2.076	1.61	0.50	
2480 MHz	2.534	± 1	3.534	2.26	0.71	

Conclusion: the calculated value ≤ 3.0 , SAR is exempted.

----END OF REPORT----

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