

TEST REPORT

Product Name : speaker
Brand Mark : N/A
Model No. : T200PLUS
FCC ID : 2AKRC-T200PLUS
Report Number : BLA-EMC-202203-A3504
Date of Sample Receipt : 2022/3/10
Date of Test : 2022/3/10 to 2022/4/19
Date of Issue : 2022/4/19
Test Standard : 47 CFR Part 1.1307, Part 2.1093, KDB
447498
Test Result : Pass

Prepared for:

Shenzhen Hutianmei Technology Co., Ltd
3 Floor, #32 Building, The third Industrial Park, Houting, Shajing, Baoan
District, Shenzhen

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.
Building C, No. 107, Shihuan Road, Shiyao Sub-District, Baoan District,
Shenzhen, Guangdong Province, China
TEL: +86-755-23059481

Compiled by:

Jozu

Approved by:

Blue Zhong

Review by:

Sueels

Date:

2022/4/19



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/4/19	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

2 GENERAL INFORMATION

Applicant	Shenzhen Hutianmei Technology Co., Ltd
Address	3 Floor, #32 Building, The third Industrial Park, Houting, Shajing, Baoan District, Shenzhen
Manufacturer	Shenzhen Hutianmei Technology Co., Ltd
Address	3 Floor, #32 Building, The third Industrial Park, Houting, Shajing, Baoan District, Shenzhen
Factory	Shenzhen Hutianmei Technology Co., Ltd
Address	3 Floor, #32 Building, The third Industrial Park, Houting, Shajing, Baoan District, Shenzhen
Product Name	speaker
Test Model No.	T200PLUS

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	SODLK-T200PLUS 2022.01.06 V08
Software Version	XYCF_SW_V29_RGB_2819_20220118_v1.51
BDR+EDR	
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi(Provided by the applicant)
BLE	
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi(Provided by the applicant)

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,
China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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 (GFSK worst case)						
Channel	Maximum Peak Conducted Output Power	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
	(dBm)		(dBm)	(mW)		
2402MHZ	-0.291	±1	0.709	1.18	0.36	3.0
2441MHz	0.152	±1	1.152	1.30	0.41	
2480MHz	0.061	±1	1.061	1.28	0.40	
Operational Mode: BLE						
2402	4.156	±1	5.156	3.28	1.02	3.0
2442	3.918	±1	4.918	3.10	0.97	
2480	4.383	±1	5.383	3.45	1.09	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

----END OF REPORT----

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