

TEST REPORT

Product Name: Translator Earbuds

Brand Mark : Timekettle

Model No. : M3

Extension model : L1, L2, L3, S1, S2, S3, X1, X2, X3

Report Number : BLA-EMC-202205-A4806

FCC ID : 2AQ2G-M3

Date of Sample Receipt : 2022/5/19

Date of Test : 2022/5/19 to 2022/6/24

Date of Issue : 2022/6/24

Test Standard 47 CFR Part 1.1307, Part 2.1093, KDB

447498

Test Result : Pass

Jozu Blue Zhong

Prepared for:

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Prepared by:

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Approved by:

Review by:

Date:





Page 2 of 8

REPORT REVISE RECORD

Version No.	Date	Description
00	2022/6/24	Original



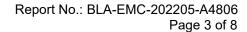




TABLE OF CONTENTS

1	T	EST SUMMARY	4
2	G	ENERAL INFORMATION	5
3	G	ENERAL DESCRIPTION OF E.U.T	5
_	_		_
4	L	ABORATORY LOCATION	6
5	R	F EXPOSURE COMPLIANCE REQUIREMENT	7
		Standard Requirement	
	5.2	LIMITS	7
	5 3	FLIT RE EXPOSURE	7

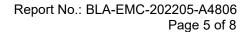


Page 4 of 8

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 Timekettle Technologies Co., Ltd		
Address	Room 402, Building 3B, Minqi Science Park, Nanshan District, Shenzhen, Guangdong, China		
Manufacturer	Guangdong Mingyang Smart Technology Co.,Ltd		
Address	Room 413, Hongdu Business BuildingBuilding A, Anle Industrial Area. Haile Community Xinan Street, Baoan DistrictShenzhen. China		
Factory	Guangdong Mingyang Smart Technology Co.,Ltd		
Address	Building 1, No.111 Nanjiang Road, Humen Town, Dongguan City, Guangdong Province		
Product Name	Translator Earbuds		
Test Model No.	M3		
Extension model	L1, L2, L3, S1, S2, S3, X1, X2, X3		
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	V1.2	
Software Version	V1.3.4	

BLE

Operation Frequency:	2402MHz-2480MHz	
Modulation Type:	GFSK	
Channel Spacing:	2MHz	
Number of Channels:	40	
Antenna Type:	Chip Antenna	
Antenna Gain:	2.5dBi(Provided by the applicant)	

BDR+EDR

Operation Frequency:	2402MHz-2480MHz	
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK	
Channel Spacing:	1MHz	
Number of Channels: 79		
Antenna Type:	Chip Antenna	
Antenna Gain: 2.5dBi(Provided by the applicant)		

NOTE: This report is only for right earphone.



Page 6 of 8

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,

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No tests were sub-contracted.





Page 7 of 8

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:

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

f(GHz) is the RF channel transmit frequency in GHz

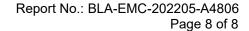
Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

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

5.3 EUT RF EXPOSURE

Operational Mode: EDR (8-DPSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune (dBm)	-up Power (mW)	Calculated value	Exclusion threshold
2402MHz	2.259	±1	3.259	2.12	0.66	
2441MHz	3.772	±1	4.772	3.00	0.94	3.0
2480MHz	2.991	±1	3.991	2.51	0.79	
Operational M	Operational Mode: BLE					
2402 MHz	0.87	±1	1.87	1.54	0.48	
2442 MHz	3.238	±1	4.238	2.65	0.83	3.0
2480 MHz	2.695	±1	3.695	2.34	0.74	
Conclusion: the calculated value ≤3.0, SAR is exempted.						





----END OF REPORT----

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