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# **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 2022/6/30
Date of Issue	:	2022/6/30
Test Standard	:	47 CFR Part 1.1307, Part 2.1093, KDB 447498
Test Result	:	Pass

Prepared for:

Shenzhen Timekettle Technologies Co., Ltd Room 402, Building 3B, Minqi Science Park, Nanshan District, Shenzhen,Guangdong, China

Prepared by:

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#### **REPORT REVISE RECORD**

,	Version No.	Date	Description		
	00 2022/6/30		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 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 Haile Community Xinan Street, Baoan DistrictShenzhen. China				
Factory	Guangdong Mingyang Smart Technology Co.,Ltd			
Address Building 1, No.111 Nanjiang Road, Humen Town, Dongguan C 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   electrical circuits. The differences are model name for commercial put				

## **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 left earphone.



## 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  $\leq$  50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f}(GHz)] \le 3.0$  for 1-g SAR and  $\le 7.5$  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 calculation<sup>17</sup>

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

Operational Mode: EDR (8-DPSK worst case)								
	Maximum		Maximum tune	-up Power				
Channel	Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	(dBm)	(mW)	Calculated value	Exclusion threshold		
2402MHz	2.537	±1	3.537	2.26	0.70			
2441MHz	3.259	±1	4.259	2.67	0.83	3.0		
2480MHz	2.867	±1	3.867	2.44	0.77			
Operational N								
	/lode: BLE		4.040			_		
2402 MHz	0.912	±1	1.912	1.55	0.48			
2442 MHz	2.617	±1	3.617	2.30	0.72	3.0		
2480 MHz	2.542	±1	3.542	2.26	0.71			
Conclusion: the calculated value $\leq$ 3.0, SAR is exempted.								

#### 5.3 EUT RF EXPOSURE



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### ----END OF REPORT----

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