



RF EXPOSURE EVALUATION

FCC ID:2BVD7-RPM001X4

Report Number..... : ZKT-260805L0263E-4

Date of Test..... : May 29, 2026 to Aug. 18, 2026

Date of issue..... : Aug. 18, 2026

Total number of pages..... 4

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : WUXI YONGHUA INFORMATION TECHNOLOGY CO.LTD

Address : 101 ROOM, No.5 BUILDING, No.2 FENGWEI RD, XISHAN DISTRICT, WUXI CITY, JIANGSU PROVINCE, CHINA

Manufacturer's name : WUXI YONGHUA INFORMATION TECHNOLOGY CO.LTD

Address : 101 ROOM, No.5 BUILDING, No.2 FENGWEI RD, XISHAN DISTRICT, WUXI CITY, JIANGSU PROVINCE, CHINA

Test specification:

Standard..... : FCC 47CFR §2.1093
KDB 447498 D01 General RF Exposure Guidance v06

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No..... : /

Test Report Form(s) Originator..... : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the IC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document.

Product name..... : Multi-person intercom smart Bluetooth device

Trademark : RPM

Model/Type reference..... : RPM001
RPM002, RPM003, RPM004

Ratings..... : Input: DC 5V 1A



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.
Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature).....: Jim Liu

Jim Liu

Reviewer (name + signature).....: Jackson Fang

Jackson Fang

Approved (name + signature).....: Lake Xie





According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093, 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 Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	<i>SAR Test Exclusion Threshold (mW)</i>
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ 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 calculation

The result is rounded to one decimal place for comparison



Here,

For EDR

RF Function	output power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (dBm)
BT	1.77	1±1	2
BLE	-0.16	0±1	1
Mesh	2.58	2±1	3

Mode	Frequency	Antenna Distance	RF output power including tune up (dBm)		SAR Test Exclusion Threshold	SAR Test Exclusion	Estimated SAR
	GHz	mm	dBm	mw			
8DPSK(BT)	2.441	5	2	1.585	0.495	Yes	/
GFSK(BLE)	2.44	5	1	1.259	0.393	Yes	/
GFSK(Mesh)	2.44	5	3	1.995	0.623	Yes	/

Conclusion:

1. $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] < 3.0$.
2. SAR Test Exclusion Thresholds is 3.0 for separation distance 5mm. Therefore, SAR test is not required.