

Shenzhen Toby Technology Co., Ltd.

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Maximum Permissible Exposure Evaluation FCC ID: 2AT7G-GTCOM-WM-01

1. Client Information

Applicant	•	Global Tone Communication Technology Co., Ltd.		
Addres		1601, 16th Floor, No. 20 Shijingshan Road, Shijingshan District, Beijing,China		
Manufacturer	2	Global Tone Communication Technology Co., Ltd.		
Address	•	1601, 16th Floor, No. 20 Shijingshan Road, Shijingshan District, Beijing,China		

TB-RF-075-1.0

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, China *Tel:* +86 75526509301 Fax: +86 75526509195



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2. General Description of EUT

EUT Name		wireless microphone			
Models No.	:	GTCOM-WM-01			
Model Difference	•••	N/A			
Product Descriptio n	1	Operation Frequency:	657.215MHz~662.615MHz		
		Antenna Gain:	0 dBi Spiral Antenna		
Power Rating		DC 3.0V by AA Battery*2.			
Software Version	9	UD-104R 201908 REV1.1			
Hardware Version	S	201902 REV1.7			
Connecting I/O Port(S)		Please refer to the User's Manual			

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MPE Calculations for Microphone

1. Antenna Gain:

OdBi Spiral Antenna

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

According to the KDB 447498 D01 v06 section 4.3.1, for 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are Determined by the following:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 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 calculation
- The result is rounded to one decimal place for comparison

4. Calculation Result:

			DQPSK			
Frequency (MHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshol d Value
657.215	3.20	3±1	4	2.51189	0.40727	3.0
660.215	3.14	3±1	4	2.51189	0.40820	3.0
662.615	3.27	3±1	4	2.51189	0.40894	3.0

Test separation: 5mm					
The worst RF Exposure Evaluation					
Worst Calculation Value	Threshold Value				
0.40894	3.0				

The worst RF Exposure Evaluation is 0.40894 / cm2 < limit 3.0, So standalone SAR measurements are not required.

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