Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE148900

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RF Exposure Evaluation FCC ID: 2ABHA0010

1. Client Information

: NINGBO CSTAR IMP&EXP CO., LTD. **Applicant**

Floor 4, Building E, No. 655-90, Qiming Road, Yinzhou Investment & **Address**

Innovation Center, China

Manufacturer ShenZhen C-Star Electronic Tech. co., Ltd

Address 2, 3/F, Building B, No. 2 Bada Industrial Park, Yongfu Road, Heping

Community, Fuyong Town, Baoan District, Shenzhen, China

2. General Description of EUT

EUT Name		Bluetooth Speaker with LED Lights				
Brand Name	:	Cstar				
Models No.	:	RM89627				
Model Difference	ŀ	N/A				
Product Description		Operation Frequency: Bluetooth 2.1+EDR: 2402~2480MHz				
		Number of Channel:	Bluetooth:79 Channels see Note 2			
		Max Peak Output Power:	Bluetooth: 2.256 dBm(11/4-DQPSK)			
		Antenna Gain:	0 dBi PCB Antenna			
		Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps)			
Power Supply		DC Voltage supplied from Host System by USB cable. DC power by Li-ion Battery.				
Power Rating	Ŀ	DC 5.0V by USB cable. DC 3.7V by 450mAh Li-ion Battery.				
Connecting I/O Port(S)		Please refer to the User's Manual				

Note:

More test information about the EUT please refer the RF Test Report.

TB-RF-074-1. 0

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SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations

1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR



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2.

Calculation:

Test separation	: 5mm		F. 1	ALL DE	MY			
Bluetooth Mode (GFSK)								
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value			
2.402	-0.138	±0.5	1.087	0.337	3.0			
2.441	0.468	±0.5	1.250	0.390	3.0			
2.480	1.118	±0.5	1.451	0.457	3.0			
		Bluetooth Mode (/4-DQPSK)	Militia				
Frequency (GHz) Conducted Power (dBm)		Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value			
2.402	0.929	±0.5	1.390	0.431	3.0			
2.441	1.604	±0.5	1.623	0.507	3.0			
2.480	2.256	±0.5	1.886	0.594	3.0			

So standalone SAR measurements are not required.

----End of Report----