Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE156318

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RF Exposure Evaluation FCC ID: 2AAZR-HSD8032A

1. Client Information

Applicant: Shenzhen Highstar Electrical Co., Ltd

Address: 2F&4F, Building 6, Highstar Industrial zone, Gangtou, Bantian Street,

Longgang District, Shenzhen, China

Manufacturer : Shenzhen Highstar Electrical Co., Ltd

Address: 2F&4F, Building 6, Highstar Industrial zone, Gangtou, Bantian Street,

Longgang District, Shenzhen, China

2. General Description of EUT

EUT Name		ICAN OUTDOOR BLUETOOTH SPEAKER WITH LED LIGHT					
Models No.	:	HSD80312A, HSD8032B, HSD8032C					
Model Difference	ŀ	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.					
Product Description	A second	Operation Frequency:	Bluetooth V2.1+EDR: 2402~2480 MHz				
		RF Output Power: Bluetooth: -0.827dBm(π /4-DQPSK)					
		Antenna Gain:	0dBi PCB Antenna				
Power Supply		DC Voltage supplied by USB cable					
		DC Voltage supplied by Li-ion battery					
Power Rating	:	DC 5.0V from the USB	cable				
		DC 3.7V by 2200mAh Li-ion battery					
Connecting	r's Manual						
I/O Port(S)							

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:

		BI	uetooth Mode (GFSK)			
Frequency (GHz)	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
2.402	-2.191	-2±1	-1	0.794	0.246	3.0
2.441	-1.998	-2±1	-1	0.794	0.248	3.0
2.480	-2.090	-2±1	-1	0.794	0.250	3.0
1	The same of the sa	Bluet	tooth Mode (π/4-DQPS	K)	- GILL	
Frequency (GHz)	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
2.402	-1.037	-1±1	0	1.000	0.310	3.0
2.441	-0.827	-1±1	0	1.000	0.312	3.0
2.480	-0.921	-1±1	0	1.000	0.315	3.0

So standalone SAR measurements are not required.

----END OF REPORT----