Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2ACUS-2735

1. Client Information

Applicant: Shenzhen ShengHeDa Electronic Technology Co., Ltd

Address : 2nd Floor, Bada Industrial, Heping, Fuyong, Baoan District,

Shenzhen, Guangdong, China

Manufacturer : Shenzhen ShengHeDa Electronic Technology Co., Ltd

Address : 2nd Floor, Bada Industrial, Heping, Fuyong, Baoan District,

Shenzhen, Guangdong, China

2. General Description of EUT

	Ť						
EUT Name	:	Bluetooth Speaker					
Models No.	:	2735					
Model Difference	:	N/A					
		Operation Frequency: Bluetooth:2402~2480MHz					
Product Description	:	Number of Channel:	Bluetooth:79 Channels				
		Max Peak Output Power:	GFSK: 0.238 dBm				
		Antenna Gain:	0 dBi PIFA Antenna				
		Modulation Type:	GFSK 1Mbps(1 Mbps)				
			π /4-DQPSK(2 Mbps)				
			8-DPSK(3 Mbps)				
Power Supply	:	DC Voltage supplied from Host System by USB cable					
,		DC power by Li-ion Battery					
Power Rating	:						
		DC 3.7V 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.

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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 v05r02.

- (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≤50 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:

Bluetooth Mode (GFSK)										
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value				
2.402	0.238	0	1.056	5	0.327	3.0				
2.441	0.019	0	1.004	5	0.314	3.0				
2.480	-0.466	0	0.898	5	0.283	3.0				
Bluetooth Mode (8-DPSK)										
Frequency (GHz)	Conducted Power (dBm)	Ant Gain (dBi)	TX Power (mW)	Distance (mm)	Calculation Value	Threshold Value				
2.402	-0.097	0	0.978	5	0.303	3.0				
2.441	-0.342	0	0.924	5	0.289	3.0				
2.480	-0.587	0	0.874	5	0.275	3.0				

So standalone SAR measurements are not required.