

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE158289 Page: 1 of 3

RF Exposure Evaluation FCC ID: 2AFHP-EP-B67

1. Client Information

2. General Description of EUT						
		City, Guangdong Province, China				
Address		7 Hai Yi Road, Yongtou Community, Chang an Town, Dongguan				
Manufacturer	-	Dongguan Tenji Industrial Co.,Ltd				
Address	0.	Room 102, Bld P09, Huanan International Zone, No.1 Huanan Rd, PinghuTownLonggang District, Shenzhen, China				
Applicant	÷	SHENZHEN AUKEY E BUSINESS CO., LTD.				

EUT Name		Bluetooth Earbuds					
Models No.	2	EP-B67, EP-B65, EP-B66, EP-B67, EP-B68, EP-B69, EP-B36, EP-B32					
Model Difference		All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name for commercial.					
Product Description	100 M	Operation Frequency:	Bluetooth V4.1: 2402~2480 MHz				
		RF Output Power:	Bluetooth: 5.417dBm(GFSK)				
		Antenna Gain:	2dBi Ceramic Antenna				
Power Supply	á	DC Voltage Supply from USB Port. DC Supply by the Li-ion Battery.					
Power Rating		DC 5.0 V from the USB Cable. DC 3.7V by 60mAh*2 Li-ion Battery.					
Software Version		V07					
Hardware Version	:	V01					
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.

Report No.: TB-MPE158289 Page: 2 of 3

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

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- 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)]*[$\sqrt{f_{(GHz)}}$] \leqslant 7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm											
Bluetooth 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	3.612	3±1	4	2.512	0.779	3.0					
2.441	5.417	5±1	6	3.981	1.244	3.0					
2.480	5.260	5±1	6	3.981	1.254	3.0					
Bluetooth Mode (π /4-DQPSK)											
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	-0.254	0±1	1	1.259	0.390	3.0					
2.441	3.551	3±1	4	2.512	0.785	3.0					
2.480	3.904	3±1	4	2.512	0.791	3.0					
Bluetooth Mode (8-DPSK)											
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	1.336	1±1	2	1.585	0.491	3.0					
2.441	3.761	3±1	4	2.512	0.785	3.0					
2.480	4.401	4±1	5	3.162	0.996	3.0					

So standalone SAR measurements are not required.

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