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RF Exposure Evaluation FCC ID: ZRR-ZT2111

1. Client Information

Applicant	:	Shenzhen Adition Audio Science & Technology CO., LTD.
Address	3	Floor1-5, No.2 Building, Huidebao Industrial Park, No.11, Second Industrial Zone, Baihua Community, Guangming Sub-district, Guangming District, Shenzhen City, China
Manufacturer	facturer : Shenzhen Adition Audio Science & Technology CO., LTD.	
Address		Floor1-5, No.2 Building, Huidebao Industrial Park, No.11, Second Industrial Zone, Baihua Community, Guangming Sub-district, Guangming District, Shenzhen City, China

2. General Description of EUT

EUT Name		Self-Tuning Hearing Aids				
Model(s)	:	ZT2111				
Model Difference	*					
		Operation Frequency:	Bluetooth 5.0(BDR+EDR): 2402MHz~2480MHz			
0000		Number of Channel:	79 channels			
Product		RF Output Power:	-2.05dBm (Max)			
Description		Antenna Gain:	-0.58dBi PCB Antenna			
TUDE		Modulation Type:	GFSK(1Mbps) π/4-DQPSK(2Mbps) 8-DPSK(3Mbps)			
Power Supply	•	USB Input: DC 5V/1A DC 3.7V by 2200mAh L	USB Input: DC 5V/1A DC 3.7V by 2200mAh Li-ion battery			
Software Version		N/A				
Hardware Version		N/A				
Connecting I/O Port(S)	:	Please refer to the User's Manual				
Remark: The antenr conduction test and	na ad	gain provided by the ap apter provided by TOBY t	plicant, the adapter and verified for the RF test lab.			
Note: More test info	rm	ation about the ELIT place	as refer the RE Test Report			

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

TOBY

- 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



2. Calculation:

Test separation: 5mm						
	Bluetooth (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	Threshold Value
2.402	-2.76	-2±1	-1	0.794	0.246	3.0
2.441	-2.94	-2±1	-1	0.794	0.248	3.0
2.480	-2.07	-2±1	-1	0.794	0.250	3.0

Test separation: 5mm						
Bluetooth (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	Threshold Value
2.402	-2.60	-2±1	-1	0.794	0.246	3.0
2.441	-2.78	-2±1	-1	0.794	0.248	3.0
2.480	-2.23	-2±1	-1	0.794	0.250	3.0

Test separation: 5mm						
Bluetooth (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	Threshold Value
2.402	-2.75	-2±1	-1	0.794	0.246	3.0
2.441	-2.85	-2±1	-1	0.794	0.248	3.0
2.480	-2.05	-2±1	-1	0.794	0.250	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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