RF Exposure Evaluation
FCC ID: 2A2P2-SXE-24

1. Client Information

Applicant	:	Shenshen SPAZO techonology co.,Ltd
Address	:	D503-f15, Fude center, 145 Longping East Road, Longgang District, Shenzhen
Manufacturer	:	Shenzhen Xingguo Technology co.,Ltd
Address	:	4f, No.2, Huahan science and Technology Industrial Park, No. 16 Jinniu West Road, Pingshan District, Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name	:	2.4G TWS Gaming Earphone	
Model(s)	:	SXE-24, SXE24A019b, SXE24-02A, SXE24-02B, SXE24-02C, SXE24-02D, SXE24-02E, SXE24-02F, SXE24-02G, SXE24-02H, SXE24-02I, SXE24-02J	
Model Difference	:	All PCB boards and circuit diagrams are the same, the only difference is the name.	
Sample ID	:	20210330-12-1#&20210330-12-2#	
Product Description	:	Operation Frequency:	2405.889MHz~2477.569MHz
		RF Output Power:	7dBm
		Antenna Gain:	0dBi Ceramic Antenna
		Modulation Type:	GFSK
		Bit Rate of Transmitter:	2405.889MHz~2477.569MHz
Power Rating (Charger Box)	:	Input: DC 5V DC 3.7V by 5000mAh Li-ion battery	
Power Rating (Dongle)	:	Input: DC 5V	
Power Supply (Earphone)	:	Input: DC 5V DC 3.7V by 100mAh Li-ion battery	
Software Version	:	V1.10	
Hardware Version	:	V1.10	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

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Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.

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

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)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm						
2.4G Mode						
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
2.405889	7	7±1	8	6.31	1.96	**3.0**
2.440705	6.88	7±1	8	6.31	1.96	**3.0**
2.477569	6.92	7±1	8	6.31	1.99	**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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