

RF Exposure Evaluation

FCC ID: 2AYLE-KSUB1GD

1. Client Information

Applicant	:	Shenzhen Oneking Technologies co.,Ltd.
Address	:	F5, Bldg7, YuSheng Industrial Park, Gushu Xixiang 107 National Road Baoan, Shenzhen, China
Manufacturer	:	Shenzhen Oneking Technologies co.,Ltd.
Address	:	F5, Bldg7, YuSheng Industrial Park, Gushu Xixiang 107 National Road Baoan, Shenzhen, China

2. General Description of EUT

EUT Name	:	Wireless Audio Dongle
Model(s) No.	:	KSU-B1G, KSU-G1G, KS-B1G, KS-G1G, KS-GU1G, KS-U1G, KSU-G2G, KS-B2G, KS-G2G, KS-GU2G, KS-U2G
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is appearance color.
Sample ID	:	20200924-23-01& 20200924-23-02
Product Description	Operation Frequency:	2404MHz~2476MHz
	Number of Channel:	19 channels
	Max. Output Power:	8.901dBm
	Antenna Gain:	6.1dBi Dipole Antenna
	Modulation Type:	8FSK
	Bit Rate of Transmitter:	5Mbps
Power Rating	:	USB Input: DC 5V, 0.5A
Software Version	:	KS-soft_DFU_V2.0.3.4
Hardware Version	:	KS-GU1B-MAIN-V1.1
Remark	:	The antenna gain provided by the applicant, the verified for the RF conduction test 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:

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

2. Calculation:

Test separation: 5mm						
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
2.404	8.901	8±1	9	7.943	2.462	3.0
2.440	8.009	8±1	9	7.943	2.482	3.0
2.476	7.846	8±1	9	7.943	2.502	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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