



RF Exposure Evaluation

FCC ID: 2A3FL-V2020K

1. Client Information

Applicant	:	SHENZHEN SADES INTELLIGENT TECHNOLOGY CO., LTD.
Address	:	9F, RUN CHUANGXING TIMES BLDG., LIPU ST., BULONG RD., LONGGANG DISTRICT, SHENZHEN, China
Manufacturer	:	SHENZHEN SADES INTELLIGENT TECHNOLOGY CO., LTD.
Address	:	9F, RUN CHUANGXING TIMES BLDG., LIPU ST., BULONG RD., LONGGANG DISTRICT, SHENZHEN, China

2. General Description of EUT

EUT Name	:	wireless keyboard
Model(s)	:	V2020, V2030, V2040, V6060, V6080, V2050, V2070, 666
Model Difference	:	All these models are the same PCB, layout and electrical circuit, The only difference is the appearance.
Product Description	Operation Frequency:	2408MHz~2474MHz
	Number of Channel:	34 channels
	RF Output Power:	-8.57dBm (Max)
	Antenna Gain:	-0.61dBi PCB Antenna
	Modulation Type:	GFSK
Power Supply	:	DC 1.5V
Software Version	:	KB:MA13861-3_K+M_V01test21.hex CS:E0B0
Hardware Version	:	KB:MA13861-3
Connecting I/O Port(S)	:	Please refer to the User's Manual

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:

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

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

2. Calculation:

Test separation: 5mm

2.4G						
Frequency (MHz)	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
2408	-8.57	-8 ± 1	-7	0.2	0.062	3.0
2440	-9.07	-9 ± 1	-8	0.158	0.049	3.0
2474	-9.21	-9 ± 1	-8	0.158	0.050	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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