

RF Exposure Evaluation

FCCID: 2A5CF-BKL

1. Client Information

Applicant	:	Shenzhen BKLNOG Electronic Technology Co., Ltd.
Address	:	Kengzi Street 3rd Floor, Building A, No. 4-2 longtianxiapocun, Shenzhen, China
Manufacturer	:	Shenzhen BKLNOG Electronic Technology Co., Ltd.
Address	:	Kengzi Street 3rd Floor, Building A, No. 4-2 longtianxiapocun, Shenzhen, China

2. General Description of EUT

EUT Name	:	Computer Mice	
Model(s) No.	:	BE701, H120-RD, H120-BE, H120-YW, H120-BK, H121-RD, H121-BE, H121-YW, H121-BK, H122-RD, H122-BE, H120-GY, H123-RD, H123-BE, H123-YW, H123-BK, BE2, BE3, Z-ONE, Z2, Z3, Z4, Z5, B1, B2, B3, B4, B5, H125, H126, H127, H128	
Model Different	:	All these models are the same in the same PCB, layout and circuit, the only difference is the model.	
Product Description	:	Operation Frequency:	2402MHz~2480MHz
		Number of Channel:	40 Channels
		Antenna Gain:	-2.1 dBi PCB Antenna
		Modulation Type:	GFSK
Power Rating		DC 1.5V*2 by AAA Battery.	
Software Version	:	N/A	
Hardware Version	:	N/A	
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 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	Threshold Value
2.402	-7.685	-7 ± 1	-6	0.251	0.078	3.0
2.440	-8.106	-8 ± 1	-7	0.200	0.062	3.0
2.480	-8.671	-8 ± 1	-7	0.200	0.063	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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