RF Exposure Evaluation

Test report
On Behalf of
Shenzhen BrotherHobby Co.,Limited
For
Electric skateboard remote control

Model No.: 930, 730, 750, 770, 800, 960, 1000

FCC ID: 2AVUC-930X

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1 General Description of EUT

Product Name:	Electric skateboard remote control
Model/Type reference:	930
Serial Model:	730, 750, 770, 800, 960, 1000
Trade Mark:	Land Snail
FCC ID :	**2AVUC-930X**
Hardware Version:	V1.2
Software Version:	/
Operation frequency:	2402MHz to 2480MHz
Channel separation:	⩾3MHz
Channel number:	16
Modulation Technology:	GFSK
Antenna Type:	Copper antenna
Antenna Gain:	0dBi
Power Supply:	DC 3.7V from battery

2 RF Exposure Compliance Requirement

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ **3.0** for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearset mW and mm before calcution

The results is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

3 EUT RF Exposure

Antenna Gain: 0Bi

GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	5.706	6.5±1	7.5	5.623	1.743	3.0
Middle (2434MHz)	6.531	6.5±1	7.5	5.623	1.755	
Highest (2480MHz)	7.012	6.5±1	7.5	5.623	1.771	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: **HK2003020204-E**