

RF Exposure Evaluation

FCC ID: 2ANM4SL-7081

1. Client Information

Applicant : Shenzhen qiuyu Electronic Co.,Ltd
Address : 3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang town, Bao'an District, Shenzhen, China
Manufacturer : Shenzhen qiuyu Electronic Co.,Ltd
Address : 3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang town, Bao'an District, Shenzhen, China

2. General Description of EUT

EUT Name	:	Insect Trap	
Models No.	:	SL-7081	
Product Description	:	Operation Frequency:	Bluetooth V4.0: 2402~2480 MHz
		RF Output Power:	Bluetooth: 0.761dBm(8-DPSK)
		Antenna Gain:	1.2dBi PCB Antenna
Power Supply	:	DC Voltage supplied by USB Cable DC Voltage supplied by Li-ion Battery	
Power Rating	:	DC 5V by USB Cable DC 3.7V by 3600mAh Li-ion Battery	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

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						
Bluetooth 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	-1.213	-0.5±1	0.5	1.122	0.348	3.0
2.441	-0.106	-0.5±1	0.5	1.122	0.351	3.0
2.480	-0.321	-0.5±1	0.5	1.122	0.353	3.0
Bluetooth Mode ($\pi/4$ -DQPSK)						
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	0.574	0±1	1	1.259	0.390	3.0
2.441	0.752	0±1	1	1.259	0.393	3.0
2.480	0.565	0±1	1	1.259	0.397	3.0
Bluetooth Mode (8-DPSK)						
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	0.609	0±1	1	1.259	0.390	3.0
2.441	0.761	0±1	1	1.259	0.393	3.0
2.480	0.597	0±1	1	1.259	0.397	3.0

So standalone SAR measurements are not required.

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