

Report No.: TB-MPE162936

Page: 1 of 3

Maximum Permissible Exposure Evaluation

FCC ID: 2AKBP-Q9

1. Client Information

Applicant		Shenzhen Hysiry Technology Co., Ltd.		
Addres	1.5	No.524, BLDG A, One square world NET Industry Park, Xia Wei Yuan Wan Li Hua Industrial Zone, XiXiang Street, BaoAn District, ShenZhen, China		
Manufacturer	:	Shenzhen Hysiry Technology Co., Ltd.		
Address	ress No.524, BLDG A, One square world NET Industry Park, Xia Wei Yuan Wan Li Hua Industrial Zone, XiXiang Street, BaoAn District, ShenZhen, China			

2. General Description of EUT

EUT Name		SMART LAMP				
Models No.	-	: Q9				
Model Different	:	N/A				
The state of the s		Operation 802.11b/g/n(HT20): 2412MHz~2462				
Product		802.11b: 14.31dBm 802.11g: 13.75dBm 802.11n (HT20): 13.58dBm				
Description		Antenna Gain:	1dBi PCB Antenna			
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)			
Power Supply		AC Voltage supplied				
Power Rating		Input: AC 100~240V,50/ 60Hz				
Software Version		N/A				
Hardware Version		N/A				
Connecting I/O Port(S)		Please refer to the User's Manual				

TB-RF-075-1. 0

Tel: +86 75526509301

Fax: +86 75526509195



Report No.: TB-MPE162736

Page: 2 of 3

MPE Calculations for WIFI

1. Antenna Gain:

PCB Antenna: 1dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=(PG)/4\pi R^2$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
802.11b	14.31	14±1	15	1	20	0.00792
802.11g	13.75	13±1	14	1	20	0.00629
802.11n (HT20)	13.58	13±1	14	1	20	0.00629



Report No.: TB-MPE162736

Page: 3 of 3

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For 802.11b/g/n:2412~2462 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.00792mW / cm² < limit 1mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

----END OF REPORT----