

Report No.: TB-MPE163263 Page: 1 of 3

Maximum Permissible Exposure Evaluation

FCC ID: 2AOJSHQAG02

1. Client Information

Applicant		Alcidae Inc.
Address	Ē	Room 809, Building A4, Science park, No. 15, Keyuan Road, Nanshan District, Shenzhen, China
Manufacturer		Alcidae Inc.
Address	i	Room 809, Building A4, Science park, No. 15, Keyuan Road, Nanshan District, Shenzhen, China

2. General Description of EUT

3,50						
EUT Name		Garager				
Models No.		AG02, AG-02, HQE002, HQ-E002				
Model Different		All models are in the same PCB layout interior structure and electrical circuits, The only difference is color.				
		Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz			
Product Description		RF Output Power:	802.11b: 18.16dBm 802.11g: 19.80dBm 802.11n (HT20): 18.96dBm 802.11n (HT40): 18.72dBm			
		Antenna Gain:	1.79dBi PIFA Antenna			
		Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM, 64QAM)			
Power Supply		DC Voltage supplied by AC/DC Adapter(TEKA006-0501000UK)				
Power Rating		Input: DC 5V/1A				
Software Version						
Hardware Version	: V1.0					
Connecting I/O Port(S)	: Please refer to the User's Manual					

TB-RF-075-1. 0

Tel: +86 75526509301



Report No.: TB-MPE163263

Page: 2 of 3

MPE Calculations for WIFI

1. Antenna Gain:

PIFA Antenna: 1.79dBi.

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	18.16	18±1	19	1.79	20	0.02386
802.11g	19.80	19±1	20	1.79	20	0.03004
802.11n (HT20)	18.96	18±1	19	1.79	20	0.02386
802.11n (HT40)	18.72	18±1	19	1.79	20	0.02386



Report No.: TB-MPE163263

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(HT20):2412~2462 MHz

802.11n(HT40):2422~2452 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.03004/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----