

FCC RF EXPOSURE REPORT

FCC ID: 2AS3C-CPE5450

Project No. : 1903C003
Equipment : Wireless Bridge
Model Name : CPE5450
Series Model : CPE5450 Master, CPE5450 Slave, CPE5450CD, CPE5450AP, CPE5450FIT, CPE80R, CPE5300, 1200AP
Applicant : Qinwei Technology Co., LIMITED
Address : Room904, Block B, Dongpu Fuyuan, Shatoujiao, Yantian Districk, Shenzhen
According : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091

B T L I N C .

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Certificate #5123.02

1. GENERAL SUMMARY

Equipment : Wireless Bridge
 Brand Name : QWnet
 Test Model : CPE5450
 Series Model : CPE5450 Master, CPE5450 Slave, CPE5450CD, CPE5450AP, CPE5450FIT, CPE80R, CPE5300, 1200AP
 Applicant : Qinwei Technology Co., LIMITED
 Manufacturer : Qinwei Technology Co., LIMITED
 Address : Room904, Block B, Dongpu Fuyuan, Shatoujiao, Yantian Districk, Shenzhen
 Factory : Qinwei Technology Co., LIMITED
 Address : Room904, Block B, Dongpu Fuyuan, Shatoujiao, Yantian Districk, Shenzhen
 Date of Test : Mar. 08, 2019 ~ Apr. 09, 2019
 Test Sample : Engineering Sample No.: D190302165
 Standards : FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1903C003) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

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

Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	Internal	N/A	14

Note:

Antenna Gain=14 dBi. So the UNII-1, UNII-3 output power limit is 30-14+6=22. The UNII-1 power spectral density limit is 17-14+6=9, the UNII-3 power spectral density limit is 30-14+6=22.

3. TEST RESULTS

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
14	25.1189	21.99	158.1248	0.79059	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report