

# **FCC RF Exposure Report**

FCC ID : ZTT-RTA1200

Equipment : High Power AC1200 Wi-Fi Router

Model No. : RTA1200

Brand Name : Amped Wireless
Applicant : Amped Wireless

Address : 13089 Peyton Dr. #C307 Chino Hills, California

91709 United State

Standard : 47 CFR FCC Part 2.1091

Received Date : Mar. 06, 2015

Tested Date : Mar. 26 ~ Apr. 10, 2015

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:

Gary Chang / Manager

Iac-MRA



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## **Release Record**

Report No.	Version	Description	Issued Date
FA530604-01	Rev. 01	Initial issue	Apr. 17, 2015

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#### 1 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

#### 1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

	Frequency Range (MHz)	Power Density (mW /cm²)	Averaging Time (minutes)
I	300~1500	F/1500	30
	1500~100000	1.0	30

#### 1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4*Pi*R^2}$$

Where

Pd= Power density in mW/cm<sup>2</sup>

Pt= EIRP in Mw Pi= 3.1416

R= Measurement distance

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#### 1.3 MPE EVALUATION RESULTS

#### **MPE Evaluation of Single Transmission**

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
2412~2462	21.10	2	20	0.041	1
5180~5240	22.54	3	20	0.071	1
5745~5825	20.21	3	20	0.042	1

#### **MPE Evaluation of Simultaneous Transmission**

2.4 and 5GHz can transmit at the same time, MPE evaluation is as below formula

PD1 / Limit1 + PD2 / Limit 2 + ..... < 1, PD = Power density

MPE Evaluation = Maximum MPE of 2.4GHz + Maximum MPE of 5 GHz = 0.041 / 1 + 0.071 / 1 = 0.112 < 1

#### Conclusion

MPE evaluations of single and simultaneous transmission meet the requirement of standard.

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### 2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <a href="http://www.icertifi.com.tw">http://www.icertifi.com.tw</a>.

Linkou Kwei Shan

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If you have any suggestion, please feel free to contact us as below information

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==END==

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