

FCC RF Exposure Report

FCC ID : FDI000000029
Equipment : AirStation
Model No. : WSR-600DD
Brand Name : Buffalo Inc.
Applicant : Buffalo Inc.
Address : Akamon-dori Bldg., 30-20, Ohsu 3-chome,
Naka-ku, Nagoya 460-8315, Japan
Standard : 47 CFR FCC Part 2.1091
Received Date : Jan. 23, 2015
Tested Date : Jan. 23 ~ Feb. 25, 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



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Release Record

Report No.	Version	Description	Issued Date
FA521701	Rev. 01	Initial issue	Mar. 11, 2015
FA521701	Rev. 02	Modified product name and address.	Mar. 25, 2015

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 /cm ²)	Averaging Time (minutes)
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/cm²

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

1.3 MPE EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412~2462	28.02	2.96	20	0.249	1
5180~5240	16.31	4.52	20	0.024	1
5745~5825	27.36	4.08	20	0.277	1

MPE Evaluation of Simultaneous Transmission

Both of the WLAN 2.4G & 5.0G can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

MPE Evaluation = Maximum MPE of 2.4GHz + Maximum MPE of 5 GHz = 0.249 / 1 + 0.277 / 1 = 0.526

CONCLUSION:

Therefore, the maximum calculation of this situation is 0.526, which is less than the “1” limit.

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 <http://www.icertifi.com.tw>.

Linkou

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R.O.C.

Kwei Shan

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No. 3-1, Lane 6, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

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