

## RF Exposure Report

**Report No.:** SA181001C30

**FCC ID:** I46-INA-WIFIUSB-4

**Test Model:** INA-WIFIUSB-4

**Received Date:** Oct. 1, 2018

**Test Date:** Oct. 30 ~ Dec. 10, 2018

**Issued Date:** Dec. 19, 2018

**Applicant:** InFocus Corporation

**Address:** 13190 SW 68th Parkway Suite 200 Portland Oregon 97223-8368

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

**Lab Address:** No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

**Test Location:** No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration /  
Designation Number:** 788550 / TW0003



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### Release Control Record

Issue No.	Description	Date Issued
SA181001C30	Original release.	Dec. 19, 2018

## 1 Certificate of Conformity

**Product:** USB WIFI/BLUETOOTH ADAPTOR

**Brand:** InFocus

**Test Model:** INA-WIFIUSB-4

**Sample Status:** Mass product

**Applicant:** InFocus Corporation

**Test Date:** Oct. 30 ~ Dec. 10, 2018

**Standards:** FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :**



**Date:** Dec. 19, 2018

Celia Chen / Supervisor

**Approved by :**



**Date:** Dec. 19, 2018

Rex Lai / Associate Technical Manager

## 2 RF Exposure

### 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

f = Frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

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

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.  
 So, this device is classified as **Mobile Device**.

## 2.4 Calculation Result Of Maximum Conducted Power

Function	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN	2412-2462	26.49	5.5	20	0.3146	1
WLAN	5180-5240	21.89	6.26	20	0.1299	1
WLAN	5745-5825	21.85	5.53	20	0.1088	1
BT EDR	2402-2480	12.18	2.91	20	0.0064	1
BT LE	2402-2480	2.81	2.91	20	0.0007	1

**NOTE:**

2412-2462MHz: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.5\text{dBi}$

5180-5240MHz: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 6.26\text{dBi}$

5745-5825MHz: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20})^2 / 2] = 5.53\text{dBi}$

**--- END ---**