



**FCC RF EXPOSURE REPORT**

*For*

**Wireless Router**

**MODEL NUMBER: SR120-A**

**FCC ID: 2AV2N-SR120A**

**IC: 26145-SR120A**

**REPORT NUMBER: 4789430346-5**

**ISSUE DATE: May 20, 2020**

*Prepared for*

**Fiberhome Telecommunication Technologies Co., Ltd.  
No.88 Youkeyuan Road, Hongshan District, Wuhan, Hubei Province, P.R.China**

*Prepared by*

**UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch  
Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-  
Tech Development Zone Dongguan, People's Republic of China**

**Tel: +86 769 22038881**

**Fax: +86 769 33244054**

**Website: [www.ul.com](http://www.ul.com)**



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# 1. ATTESTATION OF TEST RESULTS

## Applicant Information

Company Name: Fiberhome Telecommunication Technologies Co., Ltd.  
Address: No.88 Youkeyuan Road, Hongshan District, Wuhan, Hubei Province, P.R.China

## Manufacturer Information

Company Name: Fiberhome Telecommunication Technologies Co., Ltd.  
Address: No.88 Youkeyuan Road, Hongshan District, Wuhan, Hubei Province, P.R.China

## EUT Description

EUT Name: Wireless Router  
Model: SR120-A  
Brand: FiberHome  
Sample Status: Normal  
Sample ID: 2978107  
Sample Received Date: March 25, 2020  
Date of Tested: March 26, 2020 ~ May 20, 2020

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	PASS
KDB-447498 D01 V06	PASS

Prepared By:

Checked By:

Denny Huang  
Project Engineer

Shawn Wen  
Laboratory Leader

Approved By:

Stephen Guo  
Laboratory Manager



## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4102.01)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED(Company No.: 21320)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320.</p> <p><b>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

## 4. REQUIREMENT

### LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
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/150	30
1500-100,000	--	--	1.0	30

Note 1: f = frequency in MHz, \* means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm<sup>2</sup> is available for this EUT.

### MPE CALCULATION METHOD

$$S = PG / (4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)



## **CALCULATED RESULTS**

### Radio Frequency Radiation Exposure Evaluation

WIFI 2.4G (Worst case)					
Operating Mode	Max. Tune up Power	Directional Gain		Power density	Limit
	(dBm)	(dBi)	(num)	(mW/cm <sup>2</sup> )	
802.11n HT20	21	8	6.31	0.1581	1

WIFI 5G (Worst case)					
Operating Mode	Max. Tune up Power	Directional Gain		Power density	Limit
	(dBm)	(dBi)	(num)	(mW/cm <sup>2</sup> )	
802.11n HT20	22	8.17	6.56	0.2069	1

- Note: 1. All the power comes from turn up power which were declared by customer.  
2. The minimum calculate separation distance of the device is greater than 20 cm.  
3. The 2.4G and 5G transmitter support Tx simultaneously, the combined power density is  $0.1581+0.2069=0.365\text{mW/cm}^2$  less than  $1\text{mW/cm}^2$ .

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**END OF REPORT**